



# Submittal #265100-1.0 265100 - Lighting

C&S Companies  
499 Col Eileen Collins Blvd.  
Syracuse, New York 13212-3930  
Phone: (315) 455-2000  
Fax: (315) 455-9667

Project: 128.060.001 - Dutchess Stadium New Clubhouse &  
Improvements  
1500 NY-9D  
Wappingers Falls, New York 12590

## Lighting Fixtures

<b>SPEC SECTION:</b>	265100 - Lighting	<b>SUBMITTAL MANAGER:</b>	Kara Mearon (C&S Engineers Inc.)
<b>STATUS:</b>	Submitted	<b>DATE CREATED:</b>	03/13/2023
<b>ISSUE DATE:</b>		<b>REVISION:</b>	0
<b>RESPONSIBLE CONTRACTOR:</b>	Piazza Brothers Construction	<b>RECEIVED FROM:</b>	Julianna LoPriore
<b>RECEIVED DATE:</b>	05/30/2023	<b>SUBMIT BY:</b>	
<b>FINAL DUE DATE:</b>	06/13/2023	<b>LOCATION:</b>	
<b>TYPE:</b>	Product Information	<b>COST CODE:</b>	
<b>APPROVERS:</b>	Allen Schmidt (DLR Group), Sarah Treas (DLR Group), Kathy Walbert (DLR Group)		
<b>BALL IN COURT:</b>	Allen Schmidt (DLR Group), Sarah Treas (DLR Group), Kathy Walbert (DLR Group)		
<b>DISTRIBUTION:</b>			
<b>DESCRIPTION:</b>			
<b>ATTACHMENTS:</b>			

### SUBMITTAL WORKFLOW

#	NAME	SUBMITTER/ APPROVER	SENT DATE	DUE DATE	RETURNED DATE	RESPONSE	ATTACHMENTS	COMMENTS
1	Damon Baxter	Submitter		1/8/2024		Pending		
2	Gus Carvajal	Submitter		1/8/2024		Pending		
3	Julianna LoPriore	Submitter		1/8/2024	5/30/2023	Submitted	<a href="#">265100-lighting fixtures.pdf</a>	
4	Allen Schmidt	Approver	5/30/2023	6/13/2023		Pending		
5	Sarah Treas	Approver	5/30/2023	6/13/2023		Pending		
6	Kathy Walbert	Approver		6/13/2023		Pending		



# Submittal #265100-1.0 265100 - Lighting

**Architect/Engineer Approval:**

- (A) Approved
- (A/N) Approved As Noted
- (RR) Revise and Resubmit
- (REJ) Rejected
- (SUB) Submit Specified Item

Checking is only for general compliance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the jobsite; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work.

Reviewed by: \_\_\_\_\_  
Date: \_\_\_\_\_

**DLRGROUP**  
Submittal Review

Project Name:	Dutchess Stadium Left Field Building
Project Number:	57-21113-01
Submittal ID:	265100-1
Received On:	5/30/2023
Reviewed On:	6/20/2023
Reviewed By:	Collin Wheeler

**Action:** Revise and Resubmit

This review is for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. Review of submittals is not for the purpose of determining the accuracy and completeness of other information such as dimensions, quantities, and installation or performance of equipment or systems, which are the Contractor's responsibility. The Architect's review shall not constitute approval of safety precautions or construction means, methods, techniques, sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component. The Architect's comments, notes or corrections are not an authorization to proceed with Work involving a change in the Contract Sum, the Contract Time or both. If any portion of this review requires a change to the Work, an appropriate change instrument must be executed in accordance with the Contract Documents.

- \* Refer to comments on following pages.
- \* Only resubmit fixtures as noted.

**REVISE & RESUBMIT**

- \* Fixture E104 and pole.
- \* Fixtures P110 and P111.

**FURNISH AS CORRECTED**

- \* All remaining fixtures.

BY \_\_\_\_\_ DATE \_\_\_\_\_ COPIES TO \_\_\_\_\_





# SUBMITTAL COVER SHEET

**From:** Julianna LoPriore **Attn:** Tim Brown  
**Company:** Piazza, Inc. **C&S Companies**  
**Phone/Fax #:** (914)741-4435 **499 Col. Eileen Collins Blvd.**  
**Project:** Dutchess Stadium **Syracuse, NY 13212**  
**Project #:** RFB-DCB-18-22 **(315) 455-2000; Fax: 455-9577**

**Reference:** CSI Code: 265100 Dwg No: \_\_\_\_\_  
 Paragraph: \_\_\_\_\_ Other: \_\_\_\_\_

**Description:** Lighting Fixtures

**Supplier:** Upstate Electric

**Manufacturer:** HZ Electrical Supply

**Item Type:**  Product Data  Manf. Cert/Warranty  
 Shop Drawings  Samples  
 Other: \_\_\_\_\_

### Contractor's Approval:

\_\_\_\_\_ Reviewed for general compliance of specifications.

\_\_\_\_\_ This submittal is a **substitute** to the specified product.

For Architects / Engineers Approval

This is our 1st submittal for this item.

We are submitting 1 copies.

### Contractor Submittal Review Stamp

THE ATTACHED MATERIAL HAS BEEN REVIEWED BY THE UNDERSIGNED AND IS BELIEVED TO COMPLY WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE UNDERSIGNED UNDERSTANDS VERIFICATION OF FIELD DIMENSIONS, AND COORDINATION WITH OTHER TRADES, REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

Submitted by: Piazza, Inc. Digitally signed by Piazza, Inc.  
DN: c=US, E=julianna@piazzabrothers.com,  
OU=Piazza, Inc., O=Piazza, Inc.,  
CN=Piazza, Inc.  
Date: 2023.03.15 15:04:38-04'00'

Date: \_\_\_\_\_

# SUBMITTAL COVER SHEET

Contractor: Piazza Inc

Address: 3 W. Stevens Ave - Hawthorne NY 10532 Telephone: (914)741 4435

## TYPE OF SUBMITTAL:

<b>Owner:</b> Dutchess County of Public Works
<b>Name of Project:</b> Rebid Dutchess Stadium New Left Field Clubhouse, Seating Bowl, & Restroom Building

- |  |                                      |  |
|--|--------------------------------------|--|
| <input type="checkbox"/> Shop Drawings             | <input type="checkbox"/> Schedule    | <input type="checkbox"/> Physical Sample |
| <input checked="" type="checkbox"/> Technical Data | <input type="checkbox"/> Certificate | <input type="checkbox"/> Color Sample    |
| <input type="checkbox"/> Test Report               | <input type="checkbox"/> Warranty    | <input type="checkbox"/> _____           |

**Submission #:** 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> (circle one)

<b>Description:</b>
Product Identification: <u>Light Fixtures</u>
Manufacturer: _____
Subcontractor/Supplier: <u>HZ Electrical Supply</u>
<b>DOCUMENT REFERENCES:</b> (Must be fully filled out)
Spec Section No.: <u>265100</u> Drawing No(s): _____
Paragraph: _____ Rm. Or Det. No(s): _____

## Contractor Remarks:

*These documents have been checked for accuracy and coordination with job conditions and contract requirements by Piazza, Inc. and have been found to comply with the provisions of the contract documents. - PIAZZA INC.*

## Contractor Submittal Review Stamp

THE ATTACHED MATERIAL HAS BEEN REVIEWED BY THE UNDERSIGNED AND IS BELIEVED TO COMPLY WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE UNDERSIGNED UNDERSTANDS VERIFICATION OF FIELD DIMENSIONS, AND COORDINATION WITH OTHER TRADES, REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

DATE: \_\_\_\_\_ BY (SIGN): Piazza Inc

Consultant use below this line:

## Architect Submittal Review Stamp

- |  |   |
|--|---|
| <input type="checkbox"/> NO EXCEPTIONS | <input type="checkbox"/> MAKE CORRECTIONS NOTED |
| <input type="checkbox"/> REJECTED      | <input type="checkbox"/> REVISE AND RESUBMIT    |
| <input type="checkbox"/> EXAMINED      | <input type="checkbox"/> SUBMIT SPECIFIED ITEM  |

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS & SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED & CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES & THE SATISFACTORY PERFORMANCE OF HIS WORK.  
**BBS Architects Landscape Architects Engineers**

DATE \_\_\_\_\_ BY \_\_\_\_\_



# Transmittal

Lightspec, LLC.- -Mid Hudson

Phone: (845) 416-5088

From: Kevin Gibson

**Project** DUTCHESS STADIUM  
**Quote#** MID23-74318  
**Location** FISHKILL NY  
**To** Upstate Electric, LLC  
 501 Temple Hill Rd.  
 New Windsor, NY 12553  
 Contact: TOM MCEWEN

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- |                                   |  |        |
|-----------------------------------|--|--------|
| <input type="checkbox"/> Drawings | <input type="checkbox"/> Specifications        | Other: |
| <input type="checkbox"/> Prints   | <input type="checkbox"/> Information           |        |
| <input type="checkbox"/> Plans    | <input checked="" type="checkbox"/> Submittals |        |

THESE ARE TRANSMITTED FOR:

- |  |   |                                 |
|--|---|---------------------------------|
| <input type="checkbox"/> Prior Approval        | <input type="checkbox"/> Resubmittal for Approval | <input type="checkbox"/> Record |
| <input checked="" type="checkbox"/> Approval   | <input type="checkbox"/> Corrections              | Bids due on:                    |
| <input type="checkbox"/> Approval as Submitted | <input type="checkbox"/> Your Use                 | Other:                          |
| <input type="checkbox"/> Approval as Noted     | <input type="checkbox"/> Review and Comment       |                                 |

Qty	Type	MFG	Part
2	E13	GARDCO	OPF-S-A01-740-T3M-AR1-UNV-BK
2	E13	UNITED LIGHTING STANDARDS	RSP-16-4-11-D1-BK
4	E23	GARDCO	OPF-S-A07-740-T3M-AR1-UNV-BK
4	E23	UNITED LIGHTING STANDARDS	RSP-25-5-11-VD-D1-BK
6	E34	IGUZZINI LIGHTING USA, LTD	S3055N-JB-REM-01
6	E34	IGUZZINI LIGHTING USA, LTD	4548-0024-025-UNV-ND
		<b>Item Note:</b>	MAY BE ABLE TO REDUCE POWER SUPPLIES
5	E43	GARDCO	PWS-48L-300-NW-G2-3-UNV-BK
3	E43X	GARDCO	PWS-48L-300-NW-G2-3-EBPC-120-BK
		<b>Item Note:</b>	CONFIRM VOLTAGE
2	E44	GARDCO	PWS-48L-300-NW-G2-4-UNV-BK
23	E81	GARDCO	942L-21L-NW-C-RGD-UNV-BK
23	E81	GARDCO	942L C HSG/HWK ASSY
6	E104	STRUCTURA, INC.	LSC-S-L40SO-4-C8-P1/S(X)-UNV-STD
		<b>Item Note:</b>	ADVISE WOOD FINISH
4	E115	GARDCO	SVPG-A01-840-5RD-SUR-UNV-MG
8	P62	LIGHTOLIER	C6PDL25835MZ10UCCW
		<b>Item Note:</b>	ADVISE STEM LENGTH
8	P62	LIGHTOLIER	CASKXXWH
		<b>Item Note:</b>	ADVISE STEM LENGTH
8	P110	KUZCO LIGHTING	PD411318AG
		<b>Item Note:</b>	SPEC PART NUMBER & DESCRIPTION DO NOT MATCH - QUOTING PER DESCRIPTION
3	P111	KUZCO LIGHTING	492208-BN
		<b>Item Note:</b>	SPEC PART NUMBER & DESCRIPTION DO NOT MATCH - QUOTING PER DESCRIPTION
2	P200-4'	ARCHITECTURAL LIGHTING WOR	SP2.5SA-CAP/A-S4-MED/80/3500-0/ 10V/1%-CR/S-N-N-N-TBD-N-AL-N-UNV- MOD
		<b>Item Note:</b>	MOD = 8" tall acoustic panel & 500 LM/FT. ADVISE COLOR
10	P200-5'	ARCHITECTURAL LIGHTING WOR	SP2.5SA-CAP/A-S5-MED/80/3500-0/ 10V/1%-CR/S-N-N-N-TBD-N-AL-N-UNV- MOD
		<b>Item Note:</b>	MOD = 8" tall acoustic panel & 500 LM/FT. ADVISE COLOR



# Transmittal

Lightspec, LLC.- -Mid Hudson

Phone: (845) 416-5088

From: Kevin Gibson

Qty	Type	MFG	Part
10	P200-8'	ARCHITECTURAL LIGHTING WOR	SP2.5SA-CAP/A-S8-MED/80/3500-0/ 10V/1%-CR/S-N-N-N-TBD-N-AL-N-UNV- MOD <b>Item Note:</b> MOD = 8" tall acoustic panel & 500 LM/FT. ADVISE COLOR
24	P201-4'	ARCHITECTURAL LIGHTING WOR	SP2.5SA-CAP/A-S4-HI/80/3500-0/10V/ 1%-CR/S-N-N-N-TBD-N-AL-N-UNV- MOD <b>Item Note:</b> MOD = 8" tall acoustic panel & 1000 LM/FT. ADVISE COLOR
2	P201-5'	ARCHITECTURAL LIGHTING WOR	SP2.5SA-CAP/A-S5-HI/80/3500-0/10V/ 1%-CR/S-N-N-N-TBD-N-AL-N-UNV- MOD <b>Item Note:</b> MOD = 8" tall acoustic panel & 1000 LM/FT. ADVISE COLOR
1	P201-8'	ARCHITECTURAL LIGHTING WOR	SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/ 1%-CR/S-N-N-N-TBD-N-AL-N-UNV- MOD <b>Item Note:</b> MOD = 8" tall acoustic panel & 1000 LM/FT. ADVISE COLOR
4	R31	DAYBRITE	2FPZ42B835-4-DS-UNV-DIM
44	R35	DAYBRITE	2FPZ30L835-2-DS-UNV-DIM
13	R36	DAYBRITE	2FPZ38B835-2-DS-UNV-DIM
8	R42-6'	ARCHITECTURAL LIGHTING WOR	LP3.5RT-TGRID-S6-HI/80/3500-0/10V/ 1%-EXT-N-N-N-N-TW-UNV-S-MOD
2	R42-10'	ARCHITECTURAL LIGHTING WOR	LP3.5RT-TGRID-S10-HI/80/3500-0/10V/ 1%-EXT-N-N-N-N-TW-UNV-S-MOD
53	R60	LIGHTOLIER	6RN-Z6RDL10935W OCDZ10U
11	R61	LIGHTOLIER	6RN-Z6RDL15935W OCDZ10U
2	R63	LIGHTOLIER	6RN-Z6RDL25935W OCDZ10U
15	R64	LIGHTOLIER	6RN-Z6RDL35935W OCDZ10U
1	R200-8'	ARCHITECTURAL LIGHTING WOR	LP3.5RT-TGRID-S8-700LF/80/3500-0/ 10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD <b>Item Note:</b> S-MOD: 700lm/ft
1	R200-18'	ARCHITECTURAL LIGHTING WOR	LP3.5RT-TGRID-S18-700LF/80/3500-0/ 10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD <b>Item Note:</b> S-MOD: 700lm/ft
1	R200F-210'	ARCHITECTURAL LIGHTING WOR	LP3.5RT-DRY-S210-700LF/80/3500-0/ 10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD <b>Item Note:</b> Approximately 212LF. See RCP for exact lengths. 1x non-90° inner corner + 1x 3-way 90° intersection + 1x same plane 90°. 700lm/ft. FACTORY DWG REQ
1	R200F-120 DEGREE	ARCHITECTURAL LIGHTING WOR	120 DEGREE CORNER <b>Item Note:</b> ASSUMING P200F ON DRAWINGS ARE MISLABELED/QUOTING R200F
1	R200F-90 DEGREE	ARCHITECTURAL LIGHTING WOR	90 DEGREE CORNER <b>Item Note:</b> ASSUMING P200F ON DRAWINGS ARE MISLABELED/QUOTING R200F
1	R200F T	ARCHITECTURAL LIGHTING WOR	T CORNERS <b>Item Note:</b> ASSUMING P200F ON DRAWINGS ARE MISLABELED/QUOTING R200F
1	S10	DAYBRITE	FSS230L835-UNV-DIM-FKR-126
24	S11	DAYBRITE	FSSEZ440L835-UNV-DIM-FKR-126
5	S12	DAYBRITE	FSS455L835-UNV-DIM-FKR-126
1	S12X	DAYBRITE	FSS455L835-UNV-DIM-EMLED-FKR-126



# Transmittal

Lightspec, LLC.- -Mid Hudson

Phone: (845) 416-5088

From: Kevin Gibson

Qty	Type	MFG	Part
21	S30	VISCOR CORP	VRSE-355648LED835K028LCUNV
4	S30X	VISCOR CORP	VRSE-355648LED835K028LCUNV-B39
23	S31	VISCOR CORP	VRSE-355648LED835K048LUNV
60	S33	VISCOR CORP	VRSE-355648LED835K090LCUNV
		<b>Item Note:</b> 1,000 ?	
12	X1	CHLORIDE	55L3WR
2	X2	CHLORIDE	55L3WR
4	X3	CHLORIDE	60MLA1RW
3	X4	CHLORIDE	60MLA3RW
1	INV	ABB INSTALLATION PRODUCTS U	6-FTE-7-SG-D2006-2YW-SPAREF
		<b>Item Note:</b> INCLUDES FREIGHT & STARTUP W/ SAME DAY TRAINING - FACTORY SUBMITTAL REQUIRED	
3		SENSORWORX	SWX-121-WH
7		SENSORWORX	SWX-123-WH
10		SENSORWORX	SWX-221-1
35		SENSORWORX	SWX-222-1
7		SENSORWORX	SWX-801-WH
7		SENSORWORX	SWX-900-AX
1		ILC LIGHTING CONTROL EQUIPMENT	



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A01-740-T3M-AR1-UNV-BK

**Type:**  
**E13**

Notes:

MID23-74318



**Site and Area**

OptiForm

OPF-S Small



Gardco OptiForm site and area luminaires are available in three sizes: small, medium and large. Featuring the latest in LED technology, OptiForm achieves up to 192 lumens per watt. Eleven optical distributions are available, suitable for a range of outdoor lighting applications. OptiForm features a unique mounting system with a two-piece housing for hassle-free installation. Mounting options include a standard arm, mast arm, and wall mount bracket. Service Tag is a standard feature with every OptiForm luminaire, providing maintenance or upgrade assistance throughout the life of the product.

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

**Ordering guide**

example: OPF-S-A01-840-T4M-AR1-120-BL50-L3-BZ

Luminaire	Area Configuration (nom. lumens)		Color Temperature		Distribution				Mounting	Voltage	
<b>OPF-S</b>											
<b>OPF-S</b> OptiForm Small Area Light	<b>Site and Area</b>		<b>Precision Plus<sup>16</sup></b> (T2M, T3M, T4M, T5M only)		<b>827'</b> 80CRI 2700K	<b>AFR</b> Autofront row	<b>LCL</b> LEED corner optic left	<b>AR1<sup>2,17</sup></b> Arm mount (standard)	<b>120</b>	<b>120V</b>	
	<b>A02</b> 7,000 lumens	<b>P01</b> 2,500 lumens	<b>830</b> 80CRI 3000K	<b>T2M</b> Type 2 medium	<b>LCL</b> LEED corner optic right	<b>208</b>	<b>208V</b>				
	<b>A03</b> 9,000 lumens	<b>P02</b> 4,000 lumens	<b>840</b> 80CRI 4000K	<b>T3M</b> Type 3 medium	<b>BLC</b> Back light control	<b>240</b>	<b>240V</b>				
	<b>A04</b> 11,000 lumens	<b>P03</b> 6,500 lumens	<b>727'</b> 70CRI 2700K	<b>T4M</b> Type 4 medium	<b>2RL</b> Type 2 rotated left 90°	<b>277</b>	<b>277V</b>				
	<b>A05</b> 15,000 lumens	<b>P04</b> 9,000 lumens	<b>730</b> 70CRI 3000K	<b>T4W</b> Type 4 wide	<b>2RR</b> Type 2 rotated right 270°	<b>347</b>	<b>347V</b>				
	<b>A06</b> 17,000 lumens	<b>P05</b> 11,500 lumens	<b>740</b> 70CRI 4000K	<b>T5M</b> Type 5 medium	<b>3RL</b> Type 3 rotated left 90°	<b>480</b>	<b>480V</b>				
	<b>A07</b> 19,000 lumens	<b>P06</b> 14,000 lumens	<b>750</b> 70CRI 5000K	<b>T5N</b> Type 5 narrow	<b>3RR</b> Type 3 rotated right 270°	<b>UNV</b>	<b>120-277V</b>				
		<b>P07</b> 16,500 lumens		<b>T5W</b> Type 5 wide	<b>4RL<sup>1</sup></b> Type 4 rotated left 90°	<b>HVU<sup>8</sup></b>	<b>347-480V</b>				
		<b>P08</b> 19,000 lumens			<b>4RR<sup>1</sup></b> Type 4 rotated right 270°						
		<b>P09</b> 22,000 lumens									

Dimming Controls		Sensing	Options (electrical, mechanical, etc)	Emergency	Finish
The following options include 0-10V Driver		L2 PIR sensor, #2 lens (Required if BL50 is selected)	<b>None</b> Surge protector 10kV/10kA standard	<b>EM<sup>12,14,15</sup></b> Emergency Battery Pack (0-40 °C)	<b>Standard textured finish</b>
<b>none</b>	0-10V dimming driver		<b>SP2</b> Surge protector 20kV/10kA (option)		<b>BK</b> Black
<b>DLEA<sup>5,10</sup></b>	Dimming leads externally accessible (controls by others)		<b>FS1<sup>11</sup></b> Single fuse (120, 277, or 347VAC)	<b>WH</b> White	
<b>FAWS<sup>5,6,10</sup></b>	Field adjustable wattage selector		<b>FS2<sup>11</sup></b> Double fuse (208, 240, or 480V)	<b>BZ</b> Bronze	
<b>BL50<sup>5,7,10</sup></b>	Bi-level with motion sensor		<b>PCB<sup>12</sup></b> Photocontrol button connected to 0-10V driver	<b>DG</b> Dark Gray	
The following options include SR/DALI Driver			<b>TR5</b> NEMA Twist-lock 5-pin receptacle connected to 0-10V driver	<b>MG</b> Medium Gray	
<b>SRDR<sup>5,8,13</sup></b>	SR driver connected to Zhaga socket (D4i)		<b>TR7<sup>9</sup></b> 7-pin twist lock receptacle connected to D4i compliant driver	<b>Customer specified</b>	
<b>OMSR<sup>5,8,13</sup></b>	Outdoor multi-sensor		<b>TLP<sup>11,13</sup></b> 7-pin twist lock receptacle connected to D4i compliant driver w/ 3-pin photocell	<b>OC</b> Special optional color or RAL, consult factory	
<b>DynaDimmer: Automatic Profile Dimming</b>			<b>EHS</b> Housing machined to accept external house side shield for field install. Must be combined with OPF-S-EHS-1 accessory.	<b>SC</b> Special color (must specify color chip, requires factory quote)	
<b>CS50<sup>5,13</sup></b>	Security 50% dimming, 7 hours				
<b>CM50<sup>5,13</sup></b>	Median 50% dimming, 8 hours				
<b>CS30<sup>5,13</sup></b>	Security 30% dimming, 7 hours				
<b>CM30<sup>5,13</sup></b>	Median 30% dimming, 8 hours				

- Extended leadtime applies. Consult factory for details.
- Mounts to a square pole with knockout for 4-5" OD round pole.
- Mounts to a 2-3/8" x 5" tenon.
- Must be ordered with mounting accessory.
- Not available with other dimming control options (mutually exclusive).
- Not available with motion sensor (physical restriction).
- Must be specified with a motion sensor lens (L2).
- Not available with PCB, TR5.
- Must be specified with a motion sensor LW, LB.
- Not available with TR7, TLP.
- Must specify input voltage.

- Not available in 347, 480, or HVU.
- Not available with lumen packages P01, P02 in 120-277 voltages or lumen packages A01-A03, P01-P05 in 347, 480, or HVU.
- Only available with P01-P03 at 120-277V or UNV.
- Not available with Dynadimmer, SRDR, FAWS, FS1, FS2, OMSR, DLEA, BL50 (physical restriction).
- Precision Plus Optics (P01-P09) available only with T2M, T3M, T4M, and T5M optical distributions and are non-rotatable.
- OPF-RMB accessory recommended for retrofit applications.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A01-740-T3M-AR1-UNV-BK

**Type:**  
**E13**

Notes:

MID23-74318

# OPF-S OptiForm small

## Site & area luminaire

### Shielding Accessories (order separately)

- OPF-S-EHS-1\* External house side shield (field installed)
  - OPF-S-HIS-1\*\* Internal house side shield, qty 1
  - OPF-S-HIS-T4-1\*\* Internal house side shield, Type 4 only, qty 1
- \*Must select EHS option on luminaire  
\*\*Not available for Precision Plus (P01-P09)

### Luminaire Accessories (order separately)

#### Pole Mount Fusing

- FP1 Pole mount single fuse (120V, 277V, or 347V)
- FP2 Pole mount double fuse (208V, 240V, or 480V)
- FP3 Pole mount double fuse canadian double pull (208V, 240V, or 480V)

#### Photocell Accessories

- P400S Shorting cap

### Mountings (boxed and shipped separately)

Must choose MOS mounting ordered separately for mounting option on luminaire.  
(F) Must specify finish

#### Standard Arm

- OPF-AR1-(F)<sup>2,37</sup> Standard arm mount
- OPF-AR1-TR7-(F)<sup>2,13,37</sup> Mast arm mount with 7-pin (TR7) receptacle

#### Wall Mount

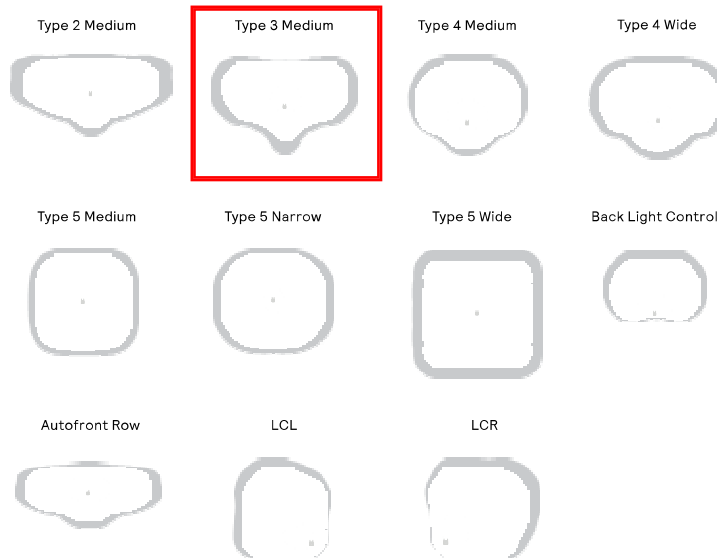
- OPF-WAL-(F) Wall mount bracket
- OPF-WAL-TR7-(F)<sup>3</sup> Wall mount with 7-pin (TR7) receptacle

#### Mast Arm

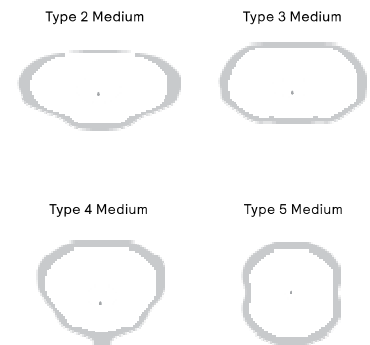
- OPF-MAR-(F)<sup>3</sup> Mast arm mount
- OPF-MAR-TR7-(F)<sup>3,13</sup> Mast arm mount with 7-pin (TR7) receptacle

### Optical Distributions

#### Site and Area Optics



#### Precision Plus Optics





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A01-740-T3M-AR1-UNV-BK

Notes:

**Type:**  
**E13**

MID23-74318

# OPF-S OptiForm small

## Site & area luminaire

### OPF-S Area Optic Lumen values

#### 3000K, 70CRI

Ordering Code	Color Temp	Average System Wattage (W)	Type 2M			Type 3M			Type 4M			Type 5M		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-A01-730-x	3000	42	6991	B2-U0-G2	167	6935	B2-U0-G2	166	7028	B1-U0-G2	168	7244	B3-U0-G1	173
OPF-S-A02-730-x	3000	54	8941	B2-U0-G2	165	8869	B2-U0-G2	164	8989	B1-U0-G2	166	9265	B3-U0-G2	171
OPF-S-A03-730-x	3000	64	10438	B2-U0-G2	164	10354	B2-U0-G2	163	10494	B2-U0-G2	165	10816	B3-U0-G2	170
OPF-S-A04-730-x	3000	91	14465	B3-U0-G3	160	14350	B3-U0-G3	158	14543	B2-U0-G2	160	14990	B4-U0-G2	165
OPF-S-A05-730-x	3000	104	16226	B3-U0-G3	156	16096	B3-U0-G3	154	16313	B2-U0-G3	156	16814	B4-U0-G2	161
OPF-S-A06-730-x	3000	122	18441	B3-U0-G3	151	18294	B3-U0-G3	150	18540	B3-U0-G3	152	19110	B4-U0-G2	156
OPF-S-A07-730-x	3000	136	20034	B3-U0-G3	147	19874	B3-U0-G3	146	20142	B3-U0-G3	148	20761	B4-U0-G2	152

#### 3000K, 70CRI (cont'd)

Ordering Code	Color Temp	Average System Wattage (W)	AFR			Type 4W			Type 5N			Type 5W		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-A01-730-x	3000	42	7241	B2-U0-G2	173	6692	B1-U0-G2	160	7193	B3-U0-G1	172	6926	B3-U0-G2	165
OPF-S-A02-730-x	3000	54	9260	B2-U0-G2	171	8558	B2-U0-G2	158	9200	B3-U0-G1	170	8858	B3-U0-G2	164
OPF-S-A03-730-x	3000	64	10811	B3-U0-G3	170	9991	B2-U0-G3	157	10740	B3-U0-G2	169	10341	B4-U0-G2	163
OPF-S-A04-730-x	3000	91	14982	B3-U0-G3	165	13847	B2-U0-G3	153	14884	B4-U0-G2	164	14331	B4-U0-G3	158
OPF-S-A05-730-x	3000	104	16806	B3-U0-G3	161	15532	B3-U0-G3	149	16696	B4-U0-G2	160	16075	B4-U0-G3	154
OPF-S-A06-730-x	3000	122	19100	B3-U0-G3	156	17652	B3-U0-G3	144	18975	B4-U0-G2	155	18270	B5-U0-G3	150
OPF-S-A07-730-x	3000	136	20750	B3-U0-G3	152	19178	B3-U0-G3	141	20615	B4-U0-G2	151	19848	B5-U0-G3	146

#### 4000K, 70CRI

Ordering Code	Color Temp	Average System Wattage (W)	Type 2M			Type 3M			Type 4M			Type 5M		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-A01-740-x	4000	42	7391	B2-U0-G2	176	7332	B2-U0-G2	175	7431	B1-U0-G2	177	7659	B3-U0-G1	183
OPF-S-A02-740-x	4000	54	9452	B2-U0-G2	175	9377	B2-U0-G2	173	9503	B1-U0-G2	176	9795	B3-U0-G2	181
OPF-S-A03-740-x	4000	64	11035	B3-U0-G3	174	10947	B2-U0-G2	172	11094	B2-U0-G2	174	11435	B3-U0-G2	180
OPF-S-A04-740-x	4000	91	15293	B3-U0-G3	169	15171	B3-U0-G3	167	15375	B2-U0-G2	170	15848	B4-U0-G2	175
OPF-S-A05-740-x	4000	104	17155	B3-U0-G3	164	17018	B3-U0-G3	163	17247	B2-U0-G3	165	17777	B4-U0-G2	170
OPF-S-A06-740-x	4000	122	19496	B3-U0-G3	160	19341	B3-U0-G3	158	19601	B3-U0-G3	160	20203	B4-U0-G2	165
OPF-S-A07-740-x	4000	136	21181	B3-U0-G3	156	21012	B3-U0-G3	154	21294	B3-U0-G3	156	21949	B4-U0-G2	161

#### 4000K, 70CRI (cont'd)

Ordering Code	Color Temp	Average System Wattage (W)	AFR			Type 4W			Type 5N			Type 5W		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-A01-740-x	4000	42	7655	B2-U0-G2	183	7075	B1-U0-G2	169	7605	B3-U0-G1	182	7322	B3-U0-G2	175
OPF-S-A02-740-x	4000	54	9790	B2-U0-G2	181	9048	B2-U0-G2	167	9726	B3-U0-G1	180	9365	B3-U0-G2	173
OPF-S-A03-740-x	4000	64	11429	B3-U0-G3	180	10563	B2-U0-G3	166	11355	B3-U0-G2	179	10933	B4-U0-G2	172
OPF-S-A04-740-x	4000	91	15840	B3-U0-G3	175	14639	B2-U0-G3	161	15736	B4-U0-G2	174	15151	B4-U0-G3	167
OPF-S-A05-740-x	4000	104	17768	B3-U0-G3	170	16421	B3-U0-G3	157	17652	B4-U0-G2	169	16995	B4-U0-G3	163
OPF-S-A06-740-x	4000	122	20193	B3-U0-G3	165	18662	B3-U0-G3	153	20061	B4-U0-G2	164	19315	B5-U0-G3	158
OPF-S-A07-740-x	4000	136	21938	B3-U0-G3	161	20275	B3-U0-G3	149	21794	B4-U0-G2	160	20984	B5-U0-G3	154





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A01-740-T3M-AR1-UNV-BK

Notes:

**Type:**  
**E13**

MID23-74318

# OPF-S OptiForm small

## Site & area luminaire

### OPF-S Area Optic Lumen values (cont'd)

#### 5000K, 70CRI

Ordering Code	Color Temp	Average System Wattage (W)	Type 2M			Type 3M			Type 4M			Type 5M		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-A01-750-x	5000	42	7391	B2-U0-G2	176	7332	B2-U0-G2	175	7431	B1-U0-G2	177	7659	B3-U0-G1	183
OPF-S-A02-750-x	5000	54	9452	B2-U0-G2	175	9377	B2-U0-G2	173	9503	B1-U0-G2	176	9795	B3-U0-G2	181
OPF-S-A03-750-x	5000	64	11035	B3-U0-G3	174	10947	B2-U0-G2	172	11094	B2-U0-G2	174	11435	B3-U0-G2	180
OPF-S-A04-750-x	5000	91	15293	B3-U0-G3	169	15171	B3-U0-G3	167	15375	B2-U0-G2	170	15848	B4-U0-G2	175
OPF-S-A05-750-x	5000	104	17155	B3-U0-G3	164	17018	B3-U0-G3	163	17247	B2-U0-G3	165	17777	B4-U0-G2	170
OPF-S-A06-750-x	5000	122	19496	B3-U0-G3	160	19341	B3-U0-G3	158	19601	B3-U0-G3	160	20203	B4-U0-G2	165
OPF-S-A07-750-x	5000	136	21181	B3-U0-G3	156	21012	B3-U0-G3	154	21294	B3-U0-G3	156	21949	B4-U0-G2	161

#### 5000K, 70CRI (cont'd)

Ordering Code	Color Temp	Average System Wattage (W)	AFR			Type 4W			Type 5N			Type 5W		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-A01-750-x	5000	42	7655	B2-U0-G2	183	7075	B1-U0-G2	169	7605	B3-U0-G1	182	7322	B3-U0-G2	175
OPF-S-A02-750-x	5000	54	9790	B2-U0-G2	181	9048	B2-U0-G2	167	9726	B3-U0-G1	180	9365	B3-U0-G2	173
OPF-S-A03-750-x	5000	64	11429	B3-U0-G3	180	10563	B2-U0-G3	166	11355	B3-U0-G2	179	10933	B4-U0-G2	172
OPF-S-A04-750-x	5000	91	15840	B3-U0-G3	175	14639	B2-U0-G3	161	15736	B4-U0-G2	174	15151	B4-U0-G3	167
OPF-S-A05-750-x	5000	104	17768	B3-U0-G3	170	16421	B3-U0-G3	157	17652	B4-U0-G2	169	16995	B4-U0-G3	163
OPF-S-A06-750-x	5000	122	20193	B3-U0-G3	165	18662	B3-U0-G3	153	20061	B4-U0-G2	164	19315	B5-U0-G3	158
OPF-S-A07-750-x	5000	136	21938	B3-U0-G3	161	20275	B3-U0-G3	149	21794	B4-U0-G2	160	20984	B5-U0-G3	154

### OPF-S Precision Plus Optic Lumen values

#### 3000K, 70CRI

Ordering Code	Color Temp	Average System Wattage (W)	Type 2M			Type 3M			Type 4M			Type 5M		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-P01-730-x	3000	15	2691	B1-U0-G1	182	2718	B1-U0-G1	184	2665	B1-U0-G1	180	2610	B2-U0-G1	176
OPF-S-P02-730-x	3000	23	4022	B1-U0-G1	178	4062	B1-U0-G1	180	3983	B1-U0-G1	177	3900	B2-U0-G1	173
OPF-S-P03-730-x	3000	38	6465	B2-U0-G2	169	6530	B2-U0-G2	171	6402	B1-U0-G2	168	6269	B3-U0-G2	164
OPF-S-P04-730-x	3000	53	8759	B2-U0-G2	165	8848	B2-U0-G2	166	8674	B2-U0-G2	163	8495	B3-U0-G2	160
OPF-S-P05-730-x	3000	66	11253	B2-U0-G2	172	11366	B3-U0-G3	173	11143	B2-U0-G3	170	10913	B3-U0-G2	167
OPF-S-P06-730-x	3000	76	13987	B3-U0-G3	183	14128	B3-U0-G3	185	13850	B2-U0-G3	182	13564	B4-U0-G3	178
OPF-S-P07-730-x	3000	94	15850	B3-U0-G3	168	16010	B3-U0-G3	170	15696	B3-U0-G3	167	15372	B4-U0-G3	163
OPF-S-P08-730-x	3000	113	19800	B3-U0-G3	176	19999	B3-U0-G3	178	19607	B3-U0-G3	174	19202	B4-U0-G3	171
OPF-S-P09-730-x	3000	133	21655	B3-U0-G3	163	21874	B3-U0-G3	164	21444	B3-U0-G4	161	21002	B4-U0-G3	158

#### 4000K, 70CRI

Ordering Code	Color Temp	Average System Wattage (W)	Type 2M			Type 3M			Type 4M			Type 5M		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-P01-740-x	4000	15	2845	B1-U0-G1	192	2874	B1-U0-G1	194	2817	B1-U0-G1	190	2759	B2-U0-G1	186
OPF-S-P02-740-x	4000	23	4252	B1-U0-G1	189	4295	B1-U0-G1	191	4211	B1-U0-G1	187	4154	B2-U0-G1	183
OPF-S-P03-740-x	4000	38	6835	B2-U0-G2	179	6904	B2-U0-G2	181	6768	B1-U0-G2	177	6629	B3-U0-G2	174
OPF-S-P04-740-x	4000	53	9261	B2-U0-G2	174	9355	B2-U0-G2	176	9171	B2-U0-G2	172	8982	B3-U0-G2	169
OPF-S-P05-740-x	4000	66	11898	B2-U0-G2	182	12018	B3-U0-G3	183	11782	B2-U0-G3	180	11539	B3-U0-G2	176
OPF-S-P06-740-x	4000	76	14788	B3-U0-G3	194	14937	B3-U0-G3	196	14644	B2-U0-G3	192	14342	B4-U0-G3	188
OPF-S-P07-740-x	4000	94	16758	B3-U0-G3	178	16927	B3-U0-G3	180	16595	B3-U0-G3	176	16253	B4-U0-G3	172
OPF-S-P08-740-x	4000	113	20934	B3-U0-G3	186	21145	B3-U0-G3	188	20730	B3-U0-G3	184	20302	B4-U0-G3	180
OPF-S-P09-740-x	4000	133	22896	B3-U0-G3	172	23127	B3-U0-G3	174	22673	B3-U0-G4	171	22205	B4-U0-G3	167



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A01-740-T3M-AR1-UNV-BK

Notes:

**Type:**  
**E13**

MID23-74318

# OPF-S OptiForm small

## Site & area luminaire

OPF-S Area Optic Lumen values (cont'd)

5000K, 70CRI

Ordering Code	Color Temp	Average System Wattage (W)	Type 2M			Type 3M			Type 4M			Type 5M		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-P01-750-x	5000	15	2845	B1-U0-G1	192	2874	B1-U0-G1	194	2817	B1-U0-G1	190	2759	B2-U0-G1	186
OPF-S-P02-750-x	5000	23	4252	B1-U0-G1	189	4295	B1-U0-G1	191	4211	B1-U0-G1	187	4124	B2-U0-G1	183
OPF-S-P03-750-x	5000	38	6835	B2-U0-G2	179	6904	B2-U0-G2	181	6768	B1-U0-G2	177	6629	B3-U0-G2	174
OPF-S-P04-750-x	5000	53	9261	B2-U0-G2	174	9355	B2-U0-G2	176	9171	B2-U0-G2	172	8982	B3-U0-G2	169
OPF-S-P05-750-x	5000	66	11898	B2-U0-G2	182	12018	B3-U0-G3	183	11782	B2-U0-G3	180	11539	B3-U0-G2	176
OPF-S-P06-750-x	5000	76	14788	B3-U0-G3	194	14937	B3-U0-G3	196	14644	B2-U0-G3	192	14342	B4-U0-G3	188
OPF-S-P07-750-x	5000	94	16758	B3-U0-G3	178	16927	B3-U0-G3	180	16595	B3-U0-G3	176	16253	B4-U0-G3	172
OPF-S-P08-750-x	5000	113	20934	B3-U0-G3	186	21145	B3-U0-G3	188	20730	B3-U0-G3	184	20302	B4-U0-G3	180
OPF-S-P09-750-x	5000	133	22896	B3-U0-G3	172	23127	B3-U0-G3	174	22673	B3-U0-G4	171	22205	B4-U0-G3	167

## LED Wattage and Lumen Values (Emergency Mode)

Ordering Code	CCT	CRI	Avg. System Wattage (W)	Type 2M		Type 3M		Type 4M	
				Lumen Output	BUG Rating	Lumen Output	BUG Rating	Lumen Output	BUG Rating
OPF-S-PXX-740-X-EM	4000	70	6	1000	B0-U0-G0	1014	B0-U0-G1	838	B0-U0-G0
OPF-S-PXX-750-X-EM	5000	70	6	960	B0-U0-G0	973	B0-U0-G1	804	B0-U0-G0
OPF-S-PXX-830-X-EM	3000	80	6	856	B0-U0-G0	868	B0-U0-G1	717	B0-U0-G0
OPF-S-PXX-840-X-EM	4000	80	6	887	B0-U0-G0	899	B0-U0-G1	743	B0-U0-G0

## Predicted Lumen Depreciation Data

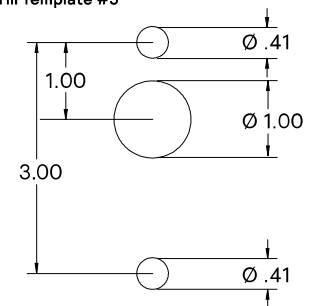
Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours

Ambient Temp °C	Lumen Package	Calculated L70 Hours	L70 per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	A06-A07	>77,000 hours	>77,000 hours	90%
25°C	All others	>100,000 hours	>100,000 hours	96%

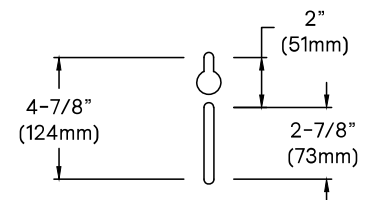
## Dimensions

Standard Drill Pattern

## Drill Template #5



Standard Arm Mounting Hole Pattern





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A01-740-T3M-AR1-UNV-BK

**Type:**  
**E13**

Notes:

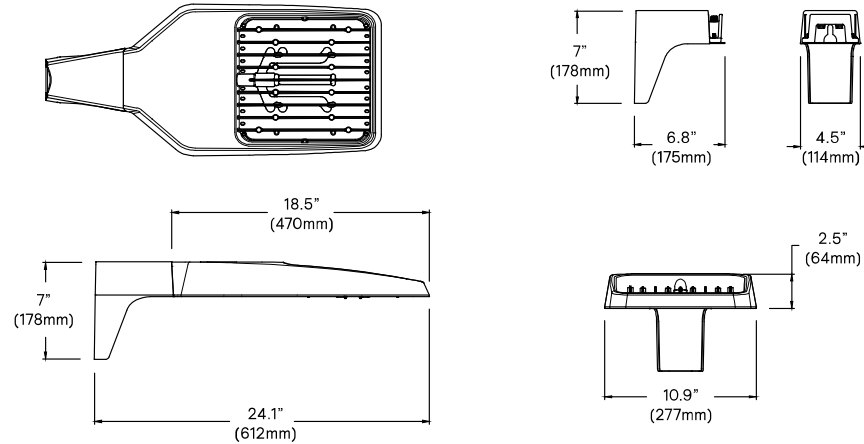
MID23-74318

# OPF-S OptiForm small

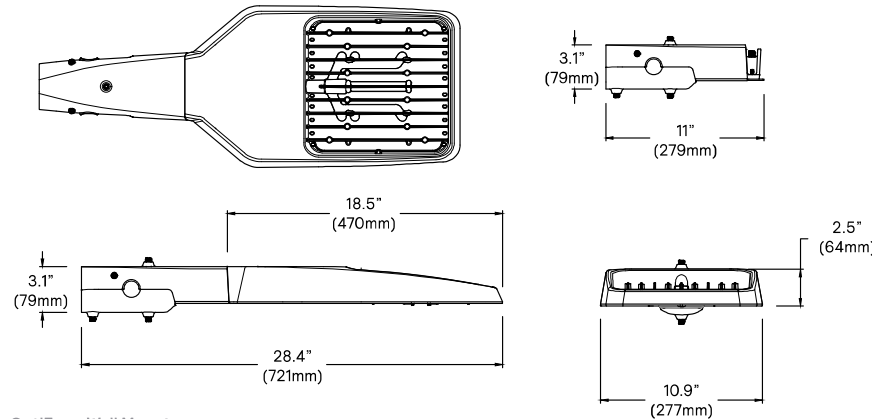
## Site & area luminaire

### Dimensions

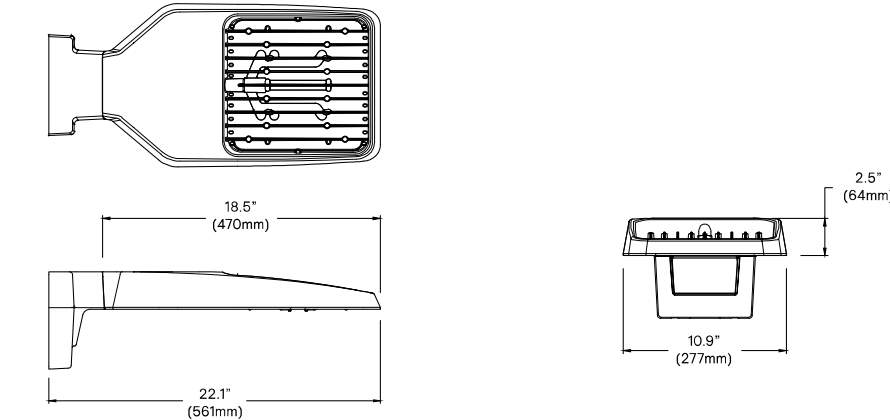
OptiForm Standard Arm  
Weight: 11 lb (5.0 kg)  
EPA: 0.2 ft<sup>2</sup> (0.018 m<sup>2</sup>)



OptiForm Mast Arm  
Weight: 12.6 lb (5.7 kg)



OptiForm Wall Mount  
Weight: 11.5 lb (5.2 kg)





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A01-740-T3M-AR1-UNV-BK

**Type:**  
**E13**

Notes:

MID23-74318

# OPF-S OptiForm small

## Site & area luminaire

### Specifications

#### Housing

Housing and door constructed of low copper die cast Aluminum alloy (A360) with detachable arms for quick mounting. Heatsink is integral to the housing providing passive cooling of LEDs to maintain long LED life. Luminaire housing rated to IP65, LED Modules rated IP66 tested in accordance to Section 9 of IEC 60598-1.

#### Vibration resistance

OptiForm is tested and rated to standards set forth in ANSI C136.31-2018 Level 2 for Bridge and Overpass applications.

#### Light engine

Light engine comprises of a module of 40-LED aluminum metal clad board fully sealed with optics: Medium = 2 Modules with 80 LEDs, Large = 4 modules with 160 LEDs. Module is RoHS compliant. Color temperature as per ANSI/NEMA bin 2700 Kelvin nominal (2725 ±145K), 3000 Kelvin nominal (3045K +/- 175K) or 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical. Other CCT/CRI also available, consult factory. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

#### Energy saving benefits

System efficacy up to 182 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

#### Optical systems

Site and Area optical distributions include Types 2 Medium, 3 Medium, 4 Medium, 4 Wide, 5 Narrow, 5 Medium, 5 Wide, and Auto Front Row. LEED Corner Left, LEED Corner Right, and Backlight Control distributions also available to provide excellent cutoff to meet the most stringent requirements at property lines. Optional internal shields mount to LED optics and are available with Type 2M, 3M, and 4M distributions. Types 2M and 3M can be rotated at 90° or 270° when specified, and are factory set only. Site and Area optics shall be performance tested per LM-79 and TM-15 (IESNA) certifying their photometric performance. Luminaire designed with 0% uplight (UO per IESNA TM-15).

Precision Plus optical distributions include Types 2, 3, 4 and 5 and are designed to illuminate pedestrian scale applications by providing lower glare, while still achieving desired distribution, optimized spacing, and excellent uniformity. Optics are made of optical grade polymer refractor lenses and shall be performance tested per LM-63, LM-79 and TM-15 (IESNA) certifying their photometric performance. Luminaire designed with 0% uplight (UO per IESNA TM-15).

#### Mounting

Standard luminaire arm mounts to square poles with knock-out on the arm to allow for mounting to 4" O.D. round poles. Standard arm casting can accommodate existing bolt spacing from 2" to 4-7/8". It is recommended to use the bolster plate kit OPF RMB when it's not a new installation or if the mounting holes are larger than 0.41" (10mm).

OptiForm features a Mast Arm for Mounting to 2-3/8x4" tenon as well as wall mount casting for exterior building mount applications.

#### Control options

**Dimming Leads Externally Accessible (DLEA):** Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

**Sensor Ready Zhaga Socket Connector (SRDR):** Product is D4i Certified and equipped with Sensor Ready drivers connected to 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Receptacle is rated IP66 assembly in a compact design that provides a sealed electrical interface and rated UV resistance, mounted on underside of the luminaire, protective dust cap included. When a controller not provided by Signify is used with Sensor Ready Zhaga socket connector, the controller must be certified to work with the Xitanium SR LED drivers as part of the SR certified program. SRDR can be used with NEMA 7-pin twist lock receptacle, which is mounted on top of the luminaire.

OPF-S\_OptiForm\_Small 03/23 page 7 of 8

**Automatic Profile Dimming (CS/CM/CE/CA):** Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM – 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM – 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options

**Field Adjustable Wattage Selector (FAWS):** Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output	FAWS Position	Percent of Typical Lumen Output
1	25%	6	80%
2	50%	7	85%
3	55%	8	90%
4	65%	9	95%
5	75%	10	100%

Note: Typical value accuracy +/- 5%

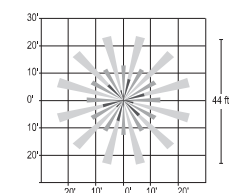
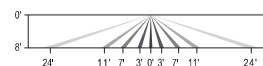
#### Motion response options

**Bi-Level Infrared Motion Response (BL50):** Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required (contact Technical Support for details).

**Infrared Motion Response with Other Controls:** When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

**Infrared Motion Response Lenses (L2):** Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 (L2) is designed for mounting heights up to up to 8 ft with a 24' diameter coverage area. See charts for approximate detection patterns:

Luminaire with #2 lens





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A01-740-T3M-AR1-UNV-BK

**Type:**  
**E13**

Notes:

MID23-74318

# OPF-S OptiForm small

## Site & area luminaire

### Specifications (cont'd)

#### Electrical

**Twist-Lock Receptacle (TR5/TR7):** Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering 7-pin Twist-lock receptacle (TR7), all 7 pins are wired to respective pins with the Sensor Ready (SR) driver, and photocell or shorting cap is not included. When ordering a twist-lock receptacle with a photocell (TLP), the receptacle used is a 7-pin receptacle, with pins 6 and 7 connected to SR DALI driver. 0-10V dimming leads (pins 4 and 5) are connected if not ordered with any other dimming option.

**Driver:** Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. All drivers are 0-10V dimming to 10% power standard, except when using Sensor Ready (SR) drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30, SRDR, and TR7). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

**Button Photocontrol (PCB):** Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

**Surge protection (SP1/SP2):** Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA, 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

### Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.

#### Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). All Optiform configurations are qualified under Design Lights Consortium Premium classification. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

#### Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult Factory for specs on optional, custom colors, and marine grade paint.

#### Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: [signify.com](http://signify.com)

#### Warranty

OptiForm luminaires feature a 5-year limited warranty  
See [signify.com/warranties](http://signify.com/warranties) for complete details and exclusions.



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OPF-S\_OptiForm\_Small\_03/23 page 8 of 8

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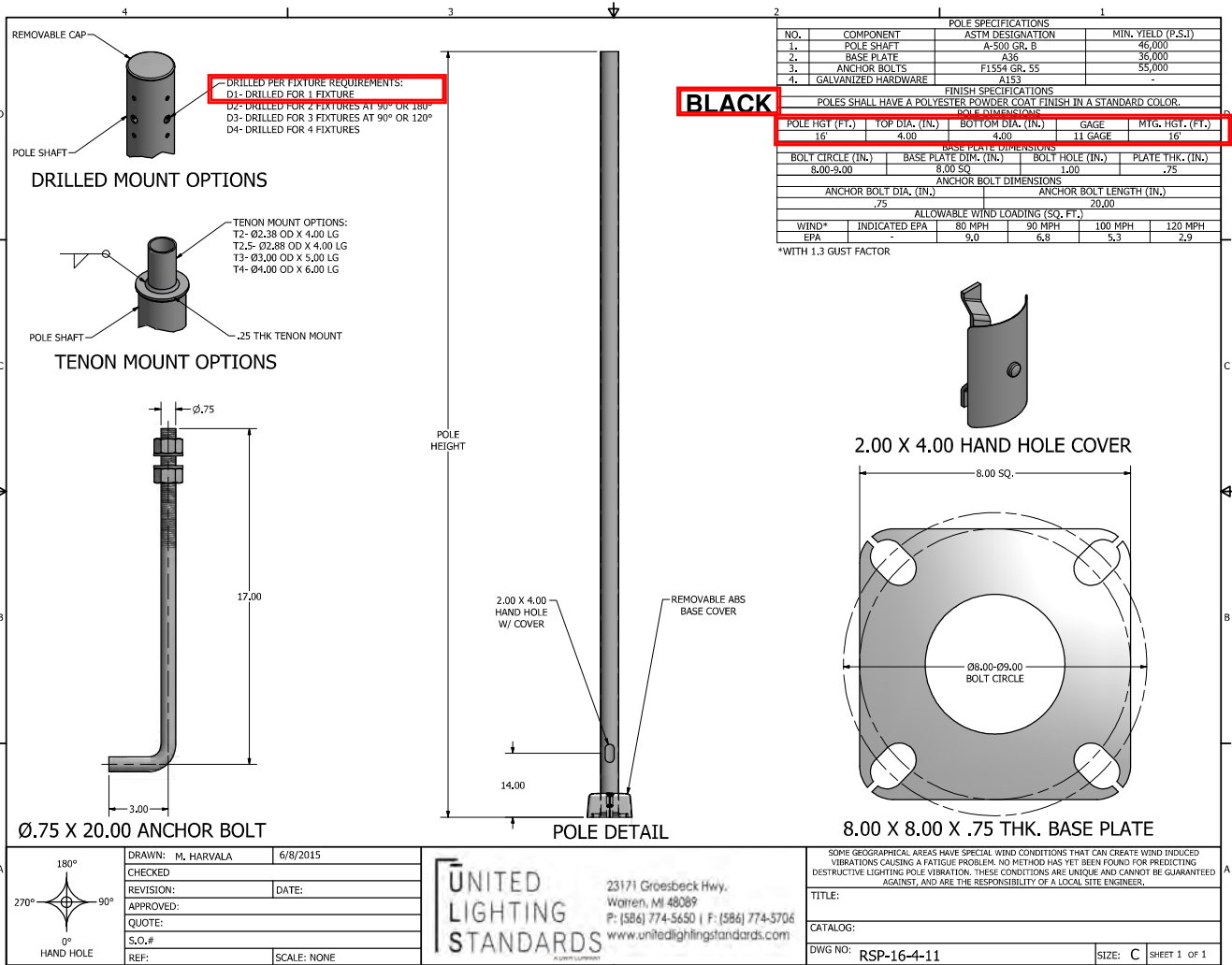
**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
RSP-16-4-11-D1-BK

**Type:**  
**E13**

Notes:

MID23-74318



	DRAWN: M. HARVALA	6/8/2015
	CHECKED:	DATE:
	REVISION:	DATE:
	APPROVED:	
	QUOTE:	
	S.O.#	
REF:	SCALE: NONE	

**UNITED LIGHTING STANDARDS**

23171 Groesbeck Hwy.  
Warren, MI 48089  
P: (586) 774-5650 | F: (586) 774-5706  
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SOME GEOGRAPHICAL AREAS HAVE SPECIAL WIND CONDITIONS THAT CAN CREATE WIND INDUCED VIBRATIONS CAUSING A FATIGUE PROBLEM. NO METHOD HAS YET BEEN FOUND FOR PREDICTING DESTRUCTIVE LIGHTING POLE VIBRATION. THESE CONDITIONS ARE UNIQUE AND CANNOT BE GUARANTEED AGAINST, AND ARE THE RESPONSIBILITY OF A LOCAL SITE ENGINEER.

TITLE:

CATALOG:

DWG NO: RSP-16-4-11

SIZE: C

SHEET 1 OF 1





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A07-740-T3M-AR1-UNV-BK

**Type:**  
**E23**

Notes:

MID23-74318



**Site and Area**

OptiForm

OPF-S Small



Gardco OptiForm site and area luminaires are available in three sizes: small, medium and large. Featuring the latest in LED technology, OptiForm achieves up to 192 lumens per watt. Eleven optical distributions are available, suitable for a range of outdoor lighting applications. OptiForm features a unique mounting system with a two-piece housing for hassle-free installation. Mounting options include a standard arm, mast arm, and wall mount bracket. Service Tag is a standard feature with every OptiForm luminaire, providing maintenance or upgrade assistance throughout the life of the product.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

**Ordering guide**

example: OPF-S-A01-840-T4M-AR1-120-BL50-L3-BZ

Luminaire	Area Configuration (nom. lumens)		Color Temperature		Distribution				Mounting	Voltage		
<b>OPF-S</b>												
<b>OPF-S</b> OptiForm Small Area Light	<b>Site and Area</b>	<b>Precision Plus<sup>16</sup></b> (T2M, T3M, T4M, T5M only)	<b>827'</b>	80CRI 2700K	<b>AFR</b>	Autofront row	<b>LCL</b>	LEED corner optic left	<b>AR1<sup>2,17</sup></b>	Arm mount (standard)	<b>120</b>	120V
	<b>A02</b>	9,000 lumens	<b>P02</b>	4,000 lumens	<b>830</b>	80CRI 3000K	<b>T2M</b>	Type 2 medium	<b>LCL</b>	LEED corner optic right	<b>208</b>	208V
	<b>A01</b>	7,000 lumens	<b>P01</b>	2,500 lumens	<b>840</b>	80CRI 4000K	<b>T3M</b>	Type 3 medium	<b>BLC</b>	Back light control	<b>240</b>	240V
	<b>A03</b>	11,000 lumens	<b>P03</b>	6,500 lumens	<b>727'</b>	70CRI 2700K	<b>T4M</b>	Type 4 medium	<b>2RL</b>	Type 2 rotated left 90°	<b>277</b>	277V
	<b>A04</b>	15,000 lumens	<b>P04</b>	9,000 lumens	<b>730</b>	70CRI 3000K	<b>T4W</b>	Type 4 wide	<b>2RR</b>	Type 2 rotated right 270°	<b>347</b>	347V
	<b>A05</b>	17,000 lumens	<b>P05</b>	11,500 lumens	<b>740</b>	70CRI 4000K	<b>T5M</b>	Type 5 medium	<b>3RL</b>	Type 3 rotated left 90°	<b>480</b>	480V
	<b>A06</b>	19,000 lumens	<b>P06</b>	14,000 lumens	<b>750</b>	70CRI 5000K	<b>T5N</b>	Type 5 narrow	<b>3RR</b>	Type 3 rotated right 270°	<b>UNV</b>	120-277V
	<b>A07</b>	20,000 lumens	<b>P07</b>	16,500 lumens			<b>T5W</b>	Type 5 wide	<b>4RL<sup>1</sup></b>	Type 4 rotated left 90°	<b>HVU<sup>8</sup></b>	347-480V
			<b>P08</b>	19,000 lumens					<b>4RR<sup>1</sup></b>	Type 4 rotated right 270°		
			<b>P09</b>	22,000 lumens								

Dimming Controls		Sensing	Options (electrical, mechanical, etc)		Emergency	Finish
The following options include 0-10V Driver		L2 PIR sensor, #2 lens (Required if BL50 is selected)	<b>None</b>	Surge protector 10kV/10kA standard	<b>EM<sup>12,14,15</sup></b> Emergency Battery Pack (0-40 °C)	<b>Standard textured finish</b>
<b>none</b>	0-10V dimming driver		<b>SP2</b>	Surge protector 20kV/10kA (option)		<b>BK</b>
<b>DLEA<sup>5,10</sup></b>	Dimming leads externally accessible (controls by others)		<b>FS1<sup>11</sup></b>	Single fuse (120, 277, or 347VAC)	<b>WH</b>	White
<b>FAWS<sup>5,6,10</sup></b>	Field adjustable wattage selector		<b>FS2<sup>11</sup></b>	Double fuse (208, 240, or 480V)	<b>BZ</b>	Bronze
<b>BL50<sup>5,7,10</sup></b>	Bi-level with motion sensor		<b>PCB<sup>12</sup></b>	Photocontrol button connected to 0-10V driver	<b>DG</b>	Dark Gray
The following options include SR/DALI Driver			<b>TR5</b>	NEMA Twist-lock 5-pin receptacle connected to 0-10V driver	<b>MG</b>	Medium Gray
<b>SRDR<sup>5,8,13</sup></b>	SR driver connected to Zhaga socket (D4i)		<b>TR7<sup>9</sup></b>	7-pin twist lock receptacle connected to D4i compliant driver	<b>Customer specified</b>	
<b>OMSR<sup>5,8,13</sup></b>	Outdoor multi-sensor		<b>TLP<sup>11,13</sup></b>	7-pin twist lock receptacle connected to D4i compliant driver w/ 3-pin photocell	<b>OC</b>	Special optional color or RAL, consult factory
<b>DynaDimmer: Automatic Profile Dimming</b>			<b>EHS</b>	Housing machined to accept external house side shield for field install. Must be combined with OPF-S-EHS-1 accessory.	<b>SC</b>	Special color (must specify color chip, requires factory quote)
<b>CS50<sup>5,13</sup></b>	Security 50% dimming, 7 hours					
<b>CM50<sup>5,13</sup></b>	Median 50% dimming, 8 hours					
<b>CS30<sup>5,13</sup></b>	Security 30% dimming, 7 hours					
<b>CM30<sup>5,13</sup></b>	Median 30% dimming, 8 hours					

- Extended leadtime applies. Consult factory for details.
- Mounts to a square pole with knockout for 4-5" OD round pole.
- Mounts to a 2-3/8" x 5" tenon.
- Must be ordered with mounting accessory.
- Not available with other dimming control options (mutually exclusive).
- Not available with motion sensor (physical restriction).
- Must be specified with a motion sensor lens (L2).
- Not available with PCB, TR5.
- Must be specified with a motion sensor LW, LB.
- Not available with TR7, TLP.
- Must specify input voltage.

- Not available in 347, 480, or HVU.
- Not available with lumen packages P01, P02 in 120-277 voltages or lumen packages A01-A03, P01-P05 in 347, 480, or HVU.
- Only available with P01-P03 at 120-277V or UNV.
- Not available with Dynadimmer, SRDR, FAWS, FS1, FS2, OMSR, DLEA, BL50 (physical restriction).
- Precision Plus Optics (P01-P09) available only with T2M, T3M, T4M, and T5M optical distributions and are non-rotatable.
- OPF-RMB accessory recommended for retrofit applications.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A07-740-T3M-AR1-UNV-BK

**Type:**  
**E23**

Notes:

MID23-74318

# OPF-S OptiForm small

## Site & area luminaire

### Shielding Accessories (order separately)

- OPF-S-EHS-1\* External house side shield (field installed)
  - OPF-S-HIS-1\*\* Internal house side shield, qty 1
  - OPF-S-HIS-T4-1\*\* Internal house side shield, Type 4 only, qty 1
- \*Must select EHS option on luminaire  
\*\*Not available for Precision Plus (P01-P09)

### Luminaire Accessories (order separately)

#### Pole Mount Fusing

- FP1 Pole mount single fuse (120V, 277V, or 347V)
- FP2 Pole mount double fuse (208V, 240V, or 480V)
- FP3 Pole mount double fuse canadian double pull (208V, 240V, or 480V)

#### Photocell Accessories

- P400S Shorting cap

### Mountings (boxed and shipped separately)

Must choose MOS mounting ordered separately for mounting option on luminaire.  
(F) Must specify finish

#### Standard Arm

- OPF-AR1-(F)<sup>2,37</sup> Standard arm mount
- OPF-AR1-TR7-(F)<sup>2,13,37</sup> Mast arm mount with 7-pin (TR7) receptacle

#### Wall Mount

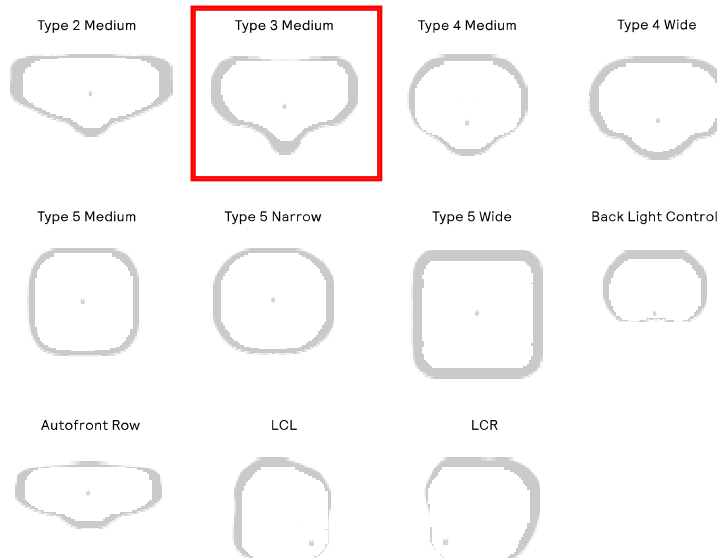
- OPF-WAL-(F) Wall mount bracket
- OPF-WAL-TR7-(F)<sup>3</sup> Wall mount with 7-pin (TR7) receptacle

#### Mast Arm

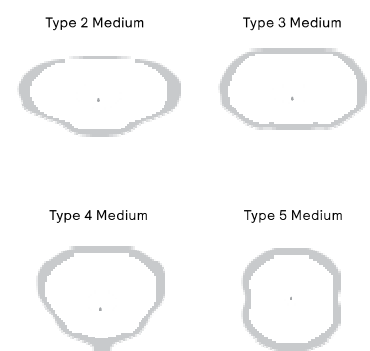
- OPF-MAR-(F)<sup>3</sup> Mast arm mount
- OPF-MAR-TR7-(F)<sup>3,13</sup> Mast arm mount with 7-pin (TR7) receptacle

### Optical Distributions

#### Site and Area Optics



#### Precision Plus Optics







**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A07-740-T3M-AR1-UNV-BK

Notes:

**Type:**  
**E23**

MID23-74318

# OPF-S OptiForm small

## Site & area luminaire

### OPF-S Area Optic Lumen values

#### 3000K, 70CRI

Ordering Code	Color Temp	Average System Wattage (W)	Type 2M			Type 3M			Type 4M			Type 5M		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-A01-730-x	3000	42	6991	B2-U0-G2	167	6935	B2-U0-G2	166	7028	B1-U0-G2	168	7244	B3-U0-G1	173
OPF-S-A02-730-x	3000	54	8941	B2-U0-G2	165	8869	B2-U0-G2	164	8989	B1-U0-G2	166	9265	B3-U0-G2	171
OPF-S-A03-730-x	3000	64	10438	B2-U0-G2	164	10354	B2-U0-G2	163	10494	B2-U0-G2	165	10816	B3-U0-G2	170
OPF-S-A04-730-x	3000	91	14465	B3-U0-G3	160	14350	B3-U0-G3	158	14543	B2-U0-G2	160	14990	B4-U0-G2	165
OPF-S-A05-730-x	3000	104	16226	B3-U0-G3	156	16096	B3-U0-G3	154	16313	B2-U0-G3	156	16814	B4-U0-G2	161
OPF-S-A06-730-x	3000	122	18441	B3-U0-G3	151	18294	B3-U0-G3	150	18540	B3-U0-G3	152	19110	B4-U0-G2	156
OPF-S-A07-730-x	3000	136	20034	B3-U0-G3	147	19874	B3-U0-G3	146	20142	B3-U0-G3	148	20761	B4-U0-G2	152

#### 3000K, 70CRI (cont'd)

Ordering Code	Color Temp	Average System Wattage (W)	AFR			Type 4W			Type 5N			Type 5W		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-A01-730-x	3000	42	7241	B2-U0-G2	173	6692	B1-U0-G2	160	7193	B3-U0-G1	172	6926	B3-U0-G2	165
OPF-S-A02-730-x	3000	54	9260	B2-U0-G2	171	8558	B2-U0-G2	158	9200	B3-U0-G1	170	8858	B3-U0-G2	164
OPF-S-A03-730-x	3000	64	10811	B3-U0-G3	170	9991	B2-U0-G3	157	10740	B3-U0-G2	169	10341	B4-U0-G2	163
OPF-S-A04-730-x	3000	91	14982	B3-U0-G3	165	13847	B2-U0-G3	153	14884	B4-U0-G2	164	14331	B4-U0-G3	158
OPF-S-A05-730-x	3000	104	16806	B3-U0-G3	161	15532	B3-U0-G3	149	16696	B4-U0-G2	160	16075	B4-U0-G3	154
OPF-S-A06-730-x	3000	122	19100	B3-U0-G3	156	17652	B3-U0-G3	144	18975	B4-U0-G2	155	18270	B5-U0-G3	150
OPF-S-A07-730-x	3000	136	20750	B3-U0-G3	152	19178	B3-U0-G3	141	20615	B4-U0-G2	151	19848	B5-U0-G3	146

#### 4000K, 70CRI

Ordering Code	Color Temp	Average System Wattage (W)	Type 2M			Type 3M			Type 4M			Type 5M		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-A01-740-x	4000	42	7391	B2-U0-G2	176	7332	B2-U0-G2	175	7431	B1-U0-G2	177	7659	B3-U0-G1	183
OPF-S-A02-740-x	4000	54	9452	B2-U0-G2	175	9377	B2-U0-G2	173	9503	B1-U0-G2	176	9795	B3-U0-G2	181
OPF-S-A03-740-x	4000	64	11035	B3-U0-G3	174	10947	B2-U0-G2	172	11094	B2-U0-G2	174	11435	B3-U0-G2	180
OPF-S-A04-740-x	4000	91	15293	B3-U0-G3	169	15171	B3-U0-G3	167	15375	B2-U0-G2	170	15848	B4-U0-G2	175
OPF-S-A05-740-x	4000	104	17155	B3-U0-G3	164	17018	B3-U0-G3	163	17247	B2-U0-G3	165	17777	B4-U0-G2	170
OPF-S-A06-740-x	4000	122	19496	B3-U0-G3	160	19341	B3-U0-G3	158	19601	B3-U0-G3	160	20203	B4-U0-G2	165
OPF-S-A07-740-x	4000	136	21181	B3-U0-G3	156	21012	B3-U0-G3	154	21294	B3-U0-G3	156	21949	B4-U0-G2	161

#### 4000K, 70CRI (cont'd)

Ordering Code	Color Temp	Average System Wattage (W)	AFR			Type 4W			Type 5N			Type 5W		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-A01-740-x	4000	42	7655	B2-U0-G2	183	7075	B1-U0-G2	169	7605	B3-U0-G1	182	7322	B3-U0-G2	175
OPF-S-A02-740-x	4000	54	9790	B2-U0-G2	181	9048	B2-U0-G2	167	9726	B3-U0-G1	180	9365	B3-U0-G2	173
OPF-S-A03-740-x	4000	64	11429	B3-U0-G3	180	10563	B2-U0-G3	166	11355	B3-U0-G2	179	10933	B4-U0-G2	172
OPF-S-A04-740-x	4000	91	15840	B3-U0-G3	175	14639	B2-U0-G3	161	15736	B4-U0-G2	174	15151	B4-U0-G3	167
OPF-S-A05-740-x	4000	104	17768	B3-U0-G3	170	16421	B3-U0-G3	157	17652	B4-U0-G2	169	16995	B4-U0-G3	163
OPF-S-A06-740-x	4000	122	20193	B3-U0-G3	165	18662	B3-U0-G3	153	20061	B4-U0-G2	164	19315	B5-U0-G3	158
OPF-S-A07-740-x	4000	136	21938	B3-U0-G3	161	20275	B3-U0-G3	149	21794	B4-U0-G2	160	20984	B5-U0-G3	154



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A07-740-T3M-AR1-UNV-BK

Notes:

**Type:**

**E23**

MID23-74318

# OPF-S OptiForm small

## Site & area luminaire

### OPF-S Area Optic Lumen values (cont'd)

#### 5000K, 70CRI

Ordering Code	Color Temp	Average System Wattage (W)	Type 2M			Type 3M			Type 4M			Type 5M		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-A01-750-x	5000	42	7391	B2-U0-G2	176	7332	B2-U0-G2	175	7431	B1-U0-G2	177	7659	B3-U0-G1	183
OPF-S-A02-750-x	5000	54	9452	B2-U0-G2	175	9377	B2-U0-G2	173	9503	B1-U0-G2	176	9795	B3-U0-G2	181
OPF-S-A03-750-x	5000	64	11035	B3-U0-G3	174	10947	B2-U0-G2	172	11094	B2-U0-G2	174	11435	B3-U0-G2	180
OPF-S-A04-750-x	5000	91	15293	B3-U0-G3	169	15171	B3-U0-G3	167	15375	B2-U0-G2	170	15848	B4-U0-G2	175
OPF-S-A05-750-x	5000	104	17155	B3-U0-G3	164	17018	B3-U0-G3	163	17247	B2-U0-G3	165	17777	B4-U0-G2	170
OPF-S-A06-750-x	5000	122	19496	B3-U0-G3	160	19341	B3-U0-G3	158	19601	B3-U0-G3	160	20203	B4-U0-G2	165
OPF-S-A07-750-x	5000	136	21181	B3-U0-G3	156	21012	B3-U0-G3	154	21294	B3-U0-G3	156	21949	B4-U0-G2	161

#### 5000K, 70CRI (cont'd)

Ordering Code	Color Temp	Average System Wattage (W)	AFR			Type 4W			Type 5N			Type 5W		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-A01-750-x	5000	42	7655	B2-U0-G2	183	7075	B1-U0-G2	169	7605	B3-U0-G1	182	7322	B3-U0-G2	175
OPF-S-A02-750-x	5000	54	9790	B2-U0-G2	181	9048	B2-U0-G2	167	9726	B3-U0-G1	180	9365	B3-U0-G2	173
OPF-S-A03-750-x	5000	64	11429	B3-U0-G3	180	10563	B2-U0-G3	166	11355	B3-U0-G2	179	10933	B4-U0-G2	172
OPF-S-A04-750-x	5000	91	15840	B3-U0-G3	175	14639	B2-U0-G3	161	15736	B4-U0-G2	174	15151	B4-U0-G3	167
OPF-S-A05-750-x	5000	104	17768	B3-U0-G3	170	16421	B3-U0-G3	157	17652	B4-U0-G2	169	16995	B4-U0-G3	163
OPF-S-A06-750-x	5000	122	20193	B3-U0-G3	165	18662	B3-U0-G3	153	20061	B4-U0-G2	164	19315	B5-U0-G3	158
OPF-S-A07-750-x	5000	136	21938	B3-U0-G3	161	20275	B3-U0-G3	149	21794	B4-U0-G2	160	20984	B5-U0-G3	154

### OPF-S Precision Plus Optic Lumen values

#### 3000K, 70CRI

Ordering Code	Color Temp	Average System Wattage (W)	Type 2M			Type 3M			Type 4M			Type 5M		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-P01-730-x	3000	15	2691	B1-U0-G1	182	2718	B1-U0-G1	184	2665	B1-U0-G1	180	2610	B2-U0-G1	176
OPF-S-P02-730-x	3000	23	4022	B1-U0-G1	178	4062	B1-U0-G1	180	3983	B1-U0-G1	177	3900	B2-U0-G1	173
OPF-S-P03-730-x	3000	38	6465	B2-U0-G2	169	6530	B2-U0-G2	171	6402	B1-U0-G2	168	6269	B3-U0-G2	164
OPF-S-P04-730-x	3000	53	8759	B2-U0-G2	165	8848	B2-U0-G2	166	8674	B2-U0-G2	163	8495	B3-U0-G2	160
OPF-S-P05-730-x	3000	66	11253	B2-U0-G2	172	11366	B3-U0-G3	173	11143	B2-U0-G3	170	10913	B3-U0-G2	167
OPF-S-P06-730-x	3000	76	13987	B3-U0-G3	183	14128	B3-U0-G3	185	13850	B2-U0-G3	182	13564	B4-U0-G3	178
OPF-S-P07-730-x	3000	94	15850	B3-U0-G3	168	16010	B3-U0-G3	170	15696	B3-U0-G3	167	15372	B4-U0-G3	163
OPF-S-P08-730-x	3000	113	19800	B3-U0-G3	176	19999	B3-U0-G3	178	19607	B3-U0-G3	174	19202	B4-U0-G3	171
OPF-S-P09-730-x	3000	133	21655	B3-U0-G3	163	21874	B3-U0-G3	164	21444	B3-U0-G4	161	21002	B4-U0-G3	158

#### 4000K, 70CRI

Ordering Code	Color Temp	Average System Wattage (W)	Type 2M			Type 3M			Type 4M			Type 5M		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-P01-740-x	4000	15	2845	B1-U0-G1	192	2874	B1-U0-G1	194	2817	B1-U0-G1	190	2759	B2-U0-G1	186
OPF-S-P02-740-x	4000	23	4252	B1-U0-G1	189	4295	B1-U0-G1	191	4211	B1-U0-G1	187	4154	B2-U0-G1	183
OPF-S-P03-740-x	4000	38	6835	B2-U0-G2	179	6904	B2-U0-G2	181	6768	B1-U0-G2	177	6629	B3-U0-G2	174
OPF-S-P04-740-x	4000	53	9261	B2-U0-G2	174	9355	B2-U0-G2	176	9171	B2-U0-G2	172	8982	B3-U0-G2	169
OPF-S-P05-740-x	4000	66	11898	B2-U0-G2	182	12018	B3-U0-G3	183	11782	B2-U0-G3	180	11539	B3-U0-G2	176
OPF-S-P06-740-x	4000	76	14788	B3-U0-G3	194	14937	B3-U0-G3	196	14644	B2-U0-G3	192	14342	B4-U0-G3	188
OPF-S-P07-740-x	4000	94	16758	B3-U0-G3	178	16927	B3-U0-G3	180	16595	B3-U0-G3	176	16253	B4-U0-G3	172
OPF-S-P08-740-x	4000	113	20934	B3-U0-G3	186	21145	B3-U0-G3	188	20730	B3-U0-G3	184	20302	B4-U0-G3	180
OPF-S-P09-740-x	4000	133	22896	B3-U0-G3	172	23127	B3-U0-G3	174	22673	B3-U0-G4	171	22205	B4-U0-G3	167



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A07-740-T3M-AR1-UNV-BK

Notes:

**Type:**  
**E23**

MID23-74318

# OPF-S OptiForm small

## Site & area luminaire

OPF-S Area Optic Lumen values (cont'd)

5000K, 70CRI

Ordering Code	Color Temp	Average System Wattage (W)	Type 2M			Type 3M			Type 4M			Type 5M		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
OPF-S-P01-750-x	5000	15	2845	B1-U0-G1	192	2874	B1-U0-G1	194	2817	B1-U0-G1	190	2759	B2-U0-G1	186
OPF-S-P02-750-x	5000	23	4252	B1-U0-G1	189	4295	B1-U0-G1	191	4211	B1-U0-G1	187	4124	B2-U0-G1	183
OPF-S-P03-750-x	5000	38	6835	B2-U0-G2	179	6904	B2-U0-G2	181	6768	B1-U0-G2	177	6629	B3-U0-G2	174
OPF-S-P04-750-x	5000	53	9261	B2-U0-G2	174	9355	B2-U0-G2	176	9171	B2-U0-G2	172	8982	B3-U0-G2	169
OPF-S-P05-750-x	5000	66	11898	B2-U0-G2	182	12018	B3-U0-G3	183	11782	B2-U0-G3	180	11539	B3-U0-G2	176
OPF-S-P06-750-x	5000	76	14788	B3-U0-G3	194	14937	B3-U0-G3	196	14644	B2-U0-G3	192	14342	B4-U0-G3	188
OPF-S-P07-750-x	5000	94	16758	B3-U0-G3	178	16927	B3-U0-G3	180	16595	B3-U0-G3	176	16253	B4-U0-G3	172
OPF-S-P08-750-x	5000	113	20934	B3-U0-G3	186	21145	B3-U0-G3	188	20730	B3-U0-G3	184	20302	B4-U0-G3	180
OPF-S-P09-750-x	5000	133	22896	B3-U0-G3	172	23127	B3-U0-G3	174	22673	B3-U0-G4	171	22205	B4-U0-G3	167

### LED Wattage and Lumen Values (Emergency Mode)

Ordering Code	CCT	CRI	Avg. System Wattage (W)	Type 2M		Type 3M		Type 4M	
				Lumen Output	BUG Rating	Lumen Output	BUG Rating	Lumen Output	BUG Rating
OPF-S-PXX-740-X-EM	4000	70	6	1000	B0-U0-G0	1014	B0-U0-G1	838	B0-U0-G0
OPF-S-PXX-750-X-EM	5000	70	6	960	B0-U0-G0	973	B0-U0-G1	804	B0-U0-G0
OPF-S-PXX-830-X-EM	3000	80	6	856	B0-U0-G0	868	B0-U0-G1	717	B0-U0-G0
OPF-S-PXX-840-X-EM	4000	80	6	887	B0-U0-G0	899	B0-U0-G1	743	B0-U0-G0

### Predicted Lumen Depreciation Data

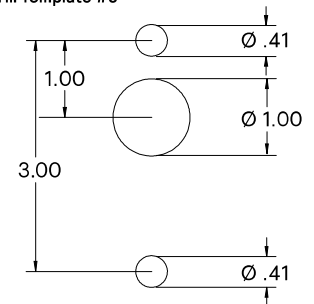
Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours

Ambient Temp °C	Lumen Package	Calculated L70 Hours	L70 per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	A06-A07	>77,000 hours	>77,000 hours	90%
25°C	All others	>100,000 hours	>100,000 hours	96%

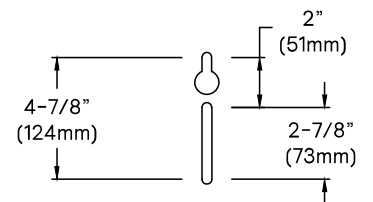
### Dimensions

Standard Drill Pattern

#### Drill Template #5



Standard Arm Mounting Hole Pattern





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
OPF-S-A07-740-T3M-AR1-UNV-BK

**Type:**  
**E23**

Notes:

MID23-74318

# OPF-S OptiForm small

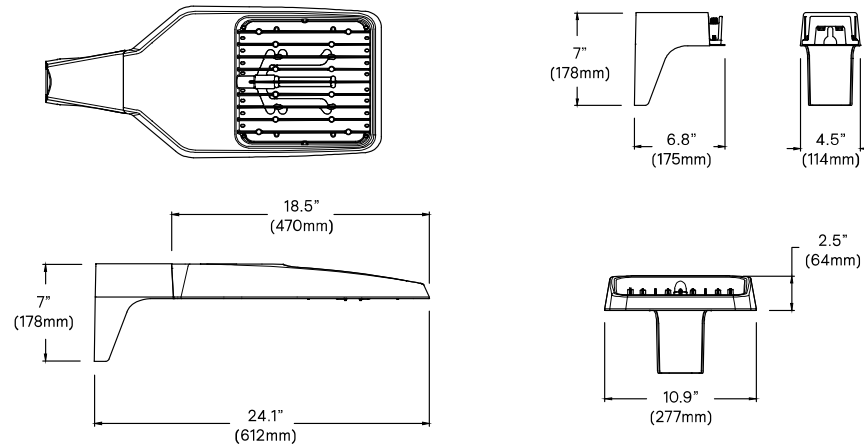
## Site & area luminaire

### Dimensions

OptiForm Standard Arm

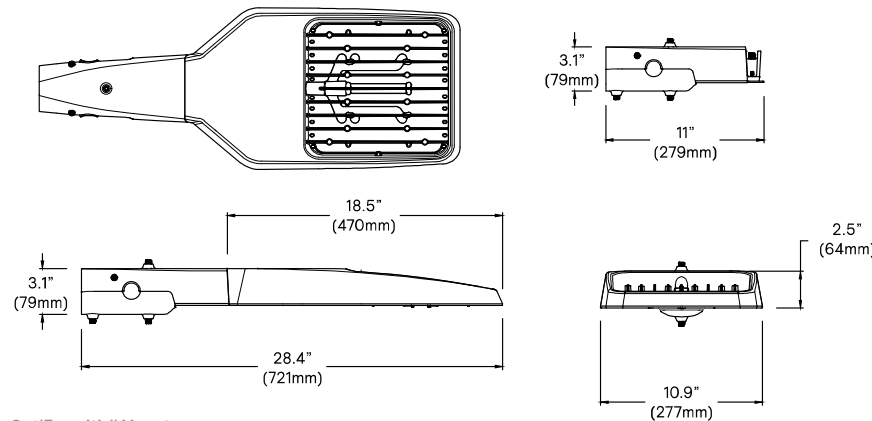
Weight: 11 lb (5.0 kg)

EPA: 0.2 ft<sup>2</sup> (0.018 m<sup>2</sup>)



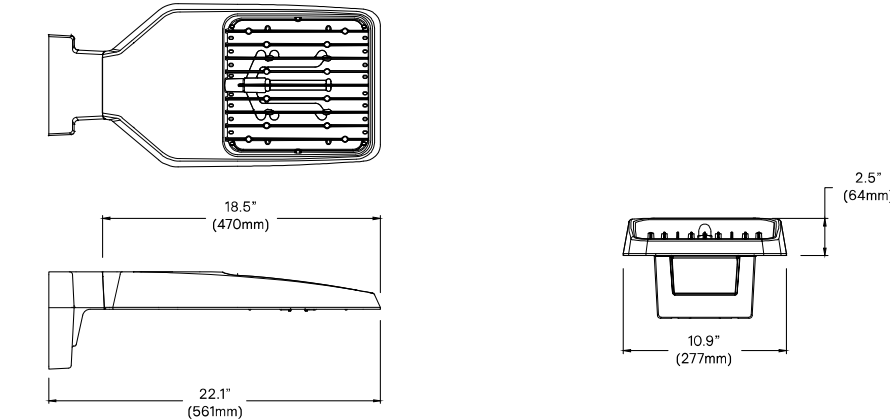
OptiForm Mast Arm

Weight: 12.6 lb (5.7 kg)



OptiForm Wall Mount

Weight: 11.5 lb (5.2 kg)





**Job Name:**  
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**Type:**  
**E23**

Notes:

MID23-74318

# OPF-S OptiForm small

## Site & area luminaire

### Specifications

#### Housing

Housing and door constructed of low copper die cast Aluminum alloy (A360) with detachable arms for quick mounting. Heatsink is integral to the housing providing passive cooling of LEDs to maintain long LED life. Luminaire housing rated to IP65, LED Modules rated IP66 tested in accordance to Section 9 of IEC 60598-1.

#### Vibration resistance

OptiForm is tested and rated to standards set forth in ANSI C136.31-2018 Level 2 for Bridge and Overpass applications.

#### Light engine

Light engine comprises of a module of 40-LED aluminum metal clad board fully sealed with optics: Medium = 2 Modules with 80 LEDs, Large = 4 modules with 160 LEDs. Module is RoHS compliant. Color temperature as per ANSI/NEMA bin 2700 Kelvin nominal (2725 ±145K), 3000 Kelvin nominal (3045K +/- 175K) or 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical. Other CCT/CRI also available, consult factory. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

#### Energy saving benefits

System efficacy up to 182 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

#### Optical systems

Site and Area optical distributions include Types 2 Medium, 3 Medium, 4 Medium, 4 Wide, 5 Narrow, 5 Medium, 5 Wide, and Auto Front Row. LEED Corner Left, LEED Corner Right, and Backlight Control distributions also available to provide excellent cutoff to meet the most stringent requirements at property lines. Optional internal shields mount to LED optics and are available with Type 2M, 3M, and 4M distributions. Types 2M and 3M can be rotated at 90° or 270° when specified, and are factory set only. Site and Area optics shall be performance tested per LM-79 and TM-15 (IESNA) certifying their photometric performance. Luminaire designed with 0% uplight (UO per IESNA TM-15).

Precision Plus optical distributions include Types 2, 3, 4 and 5 and are designed to illuminate pedestrian scale applications by providing lower glare, while still achieving desired distribution, optimized spacing, and excellent uniformity. Optics are made of optical grade polymer refractor lenses and shall be performance tested per LM-63, LM-79 and TM-15 (IESNA) certifying their photometric performance. Luminaire designed with 0% uplight (UO per IESNA TM-15).

#### Mounting

Standard luminaire arm mounts to square poles with knock-out on the arm to allow for mounting to 4" O.D. round poles. Standard arm casting can accommodate existing bolt spacing from 2" to 4-7/8". It is recommended to use the bolster plate kit OPF RMB when it's not a new installation or if the mounting holes are larger than 0.41" (10mm).

OptiForm features a Mast Arm for Mounting to 2-3/8x4" tenon as well as wall mount casting for exterior building mount applications.

#### Control options

**Dimming Leads Externally Accessible (DLEA):** Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

**Sensor Ready Zhaga Socket Connector (SRDR):** Product is D4i Certified and equipped with Sensor Ready drivers connected to 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Receptacle is rated IP66 assembly in a compact design that provides a sealed electrical interface and rated UV resistance, mounted on underside of the luminaire, protective dust cap included. When a controller not provided by Signify is used with Sensor Ready Zhaga socket connector, the controller must be certified to work with the Xitanium SR LED drivers as part of the SR certified program. SRDR can be used with NEMA 7-pin twist lock receptacle, which is mounted on top of the luminaire.

OPF-S\_OptiForm\_Small 03/23 page 7 of 8

**Automatic Profile Dimming (CS/CM/CE/CA):** Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM – 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM – 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options

**Field Adjustable Wattage Selector (FAWS):** Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output	FAWS Position	Percent of Typical Lumen Output
1	25%	6	80%
2	50%	7	85%
3	55%	8	90%
4	65%	9	95%
5	75%	10	100%

Note: Typical value accuracy +/- 5%

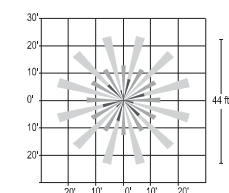
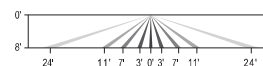
#### Motion response options

**Bi-Level Infrared Motion Response (BL50):** Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required (contact Technical Support for details).

**Infrared Motion Response with Other Controls:** When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

**Infrared Motion Response Lenses (L2):** Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 (L2) is designed for mounting heights up to up to 8 ft with a 24' diameter coverage area. See charts for approximate detection patterns:

Luminaire with #2 lens



**Job Name:**DUTCHESS STADIUM  
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(ROCHESTER)**Catalog Number:**

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**Type:****E23**

Notes:

MID23-74318

# OPF-S OptiForm small

## Site & area luminaire

### Specifications (cont'd)

#### Electrical

**Twist-Lock Receptacle (TR5/TR7):** Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering 7-pin Twist-lock receptacle (TR7), all 7 pins are wired to respective pins with the Sensor Ready (SR) driver, and photocell or shorting cap is not included. When ordering a twist-lock receptacle with a photocell (TLP), the receptacle used is a 7-pin receptacle, with pins 6 and 7 connected to SR DALI driver. 0-10V dimming leads (pins 4 and 5) are connected if not ordered with any other dimming option.

**Driver:** Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. All drivers are 0-10V dimming to 10% power standard, except when using Sensor Ready (SR) drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30, SRDR, and TR7). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

**Button Photocontrol (PCB):** Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

**Surge protection (SP1/SP2):** Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA, 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

#### Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). All Optiform configurations are qualified under Design Lights Consortium Premium classification. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

#### Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult Factory for specs on optional, custom colors, and marine grade paint.

#### Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: [signify.com](http://signify.com)

#### Warranty

OptiForm luminaires feature a 5-year limited warranty  
See [signify.com/warranties](http://signify.com/warranties) for complete details and exclusions.

### **Buy American Act of 1933 (BAA):**

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.



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OPF-S\_OptiForm\_Small\_03/23 page 8 of 8

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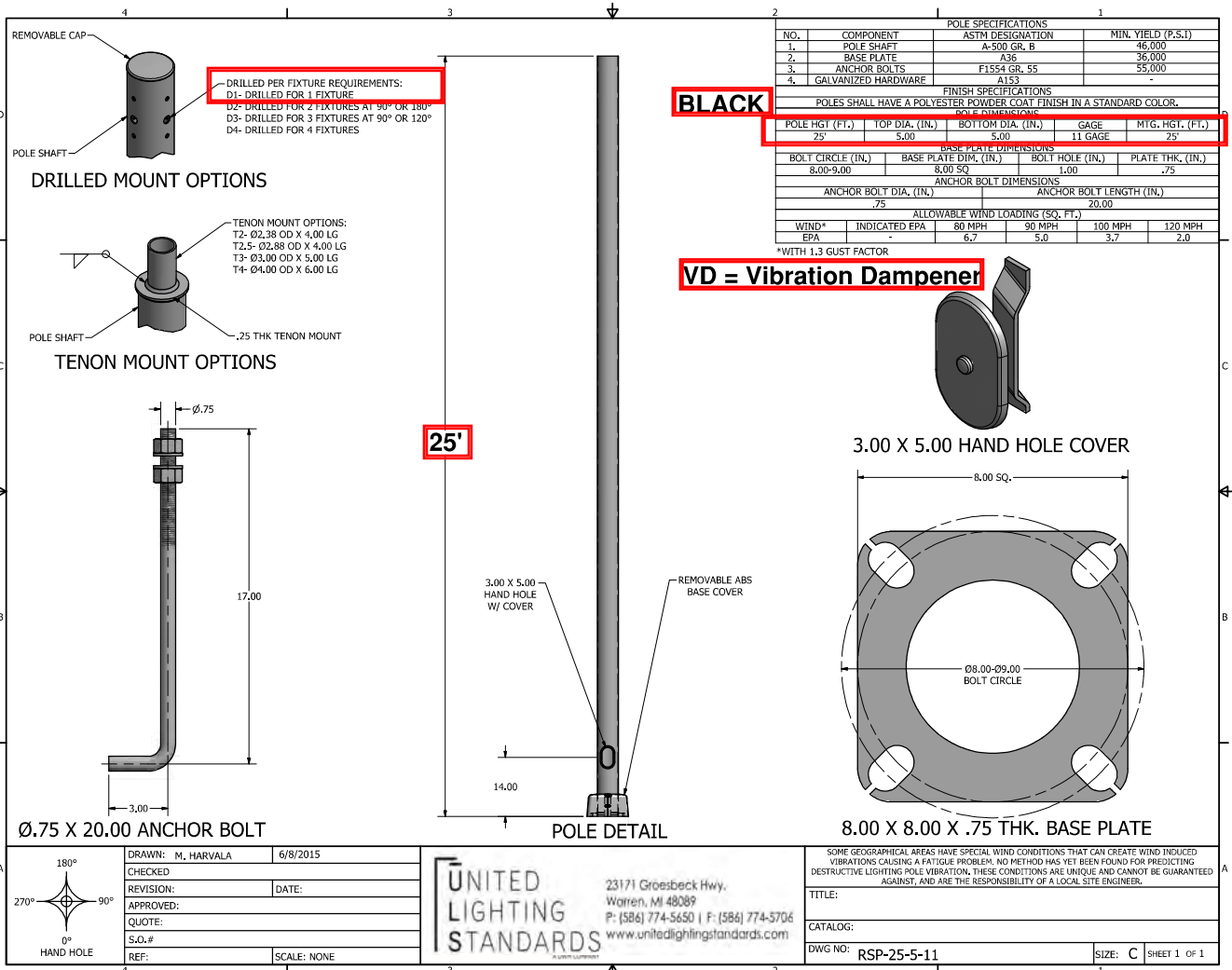
**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
RSP-25-5-11-VD-D1-BK

Notes:

**Type:**  
**E23**

MID23-74318







**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
S3055N-JB-REM-01

Notes:

**Type:****E34**

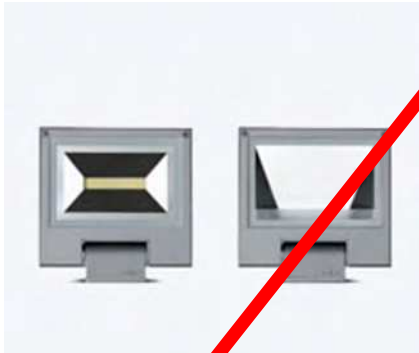
MID23-74318

**MOVIT SQUARE**

**PROVIDE LUMENPULSE LQS OR EQUAL WITH MIN.  
1,000 LUMENS, INTEGRAL DRIVER, BLACK FINISH.**

SPECIFICATION SHEET

Page: 1 of 4



Surface slim floodlight projector, can be used as direct or indirect light and available with asymmetric and symmetric reflector.

**Luminaire characteristics:**

**Power input:** 20W  
**Lumens:** 3095lm (for 3000K)  
**Luminaire efficacy:** Up to 79lm/W

**Source:** White LED (LM-80 Tested)  
3000K: 90CRI  
5000K: 90CRI

**Lumen maintenance:** 70% of initial lumens at 50 000 hours (L70)  
(LM79 tested)

**Optics:** Asymmetrical or symmetrical street optic.

**Material:** Body: Die-cast aluminum  
Reflector: 99.98% pure anodized aluminum.  
Diffuser: Toughened glass  
Hardware: Stainless steel screws and silicone gaskets

**Mounting:** Install on a standard 4" junction box or in ground or on pole, using accessories.

**Electrical:** See remote LED driver options on page 3.

**Finish:** ~~white~~ or Aluminum gray painted finish follows a double powder paint in 3 step process: surface treatment containing ceramic nanoparticles (Bonderite). Epoxy primer paint. Polyester powder paint with high resistance against UV rays and harsh weather conditions.

**BLACK FINISH**

**Weight:** 5.73lbs (2.6kg)

**EPA:** 0.5ft<sup>2</sup> (0.05m<sup>2</sup>)

**Warranty:** 5 year limited warranty

**Ratings:** IP65, IK09

**Certification:**  cULus listed for Wet location





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
S3055N-JB-REM-01

Notes:

Type:

**E34**

MID23-74318

**MOVIT SQUARE****MIN. 1,000 LUMENS, INTEGRAL DRIVER, BLACK FINISH.**

SPECIFICATION SHEET

Project :

Page: 2 of 4

**ORDERING INFO****- JB - REM -**

FIXTURE

**MODEL**

**S3050N** - 4000K, Asymmetrical  **S3050W** - 3000K, Asymmetrical  **S3055N** - 4000K, Symmetrical  **S3055W** - 3000K, Symmetrical

**MOUNTING**

**JB** - Surface mounting with box

**ELECTRICAL**

**REM** - 24V remote power supply

**FINISH**

**01** - White  **14** - Aluminum gray

**ACCESSORIES**

(TO BE ORDERED SEPARATELY)

- S3049** - Stake for ground installation  
Dim: H:12" (0.26lb)  
Dim: H:310mm (0.12kg)

**REMOTE LED DRIVER OPTION (TO BE ORDERED SEPARATELY)**

Requirement for one (1) fixture: 22W, 24V DC (Remote fixture only)

	Watts	Min- Max	Voltage	Rated	Dimming protocol	Box dimensions	Max distance 18AWG	Code
<input type="checkbox"/>	25	1	120-277V	Outdoor	None	7" X 5" X 3" (178 X 127 X 76mm)	30ft (9m)	4548-0024-025-UNV-ND
<input type="checkbox"/>	60	1-2	120-277V	Indoor	None	10" X 8" X 4" (254 X 203 X 102mm)	30ft (9m)	4448-0024-060-UNV-ND
<input type="checkbox"/>	75	1-3	120-277V	Outdoor	None	11" X 3" X 2" (279 X 75 X 51mm)	30ft (9m)	4545-0024-075-UNV-ND
<input type="checkbox"/>	50	1-3	120V	Outdoor	Leading and trailing edge (ELV and TRIAC)	14" X 5" X 2" (356 X 127 X 51mm)	30ft (9m)	4551-0024-080-120-LTE
<input type="checkbox"/>	150	1-6	120-277V	Indoor	0-10V	10" X 8" X 4" (254 X 203 X 102mm)	27ft (8.2m)	4448-0024-150-UNV-D10
<input type="checkbox"/>	200	1-4 Per channel (Max 8)	120-277V	Outdoor	None	12" X 5" X 2" (305 X 127 X 51mm)	30ft (9m) Per channel	4546-0024-200-2C-UNV-ND

\*The total power of all connected luminaires may not be higher than the power of the driver.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
S3055N-JB-REM-01

Notes:

**Type:**

**E34**

MID23-74318

# MOVIT SQUARE

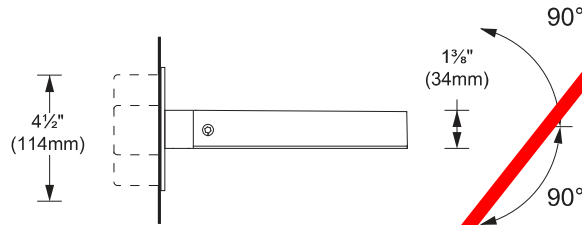
**MIN. 1,000 LUMENS, INTEGRAL DRIVER, BLACK FINISH.**

SPECIFICATION SHEET

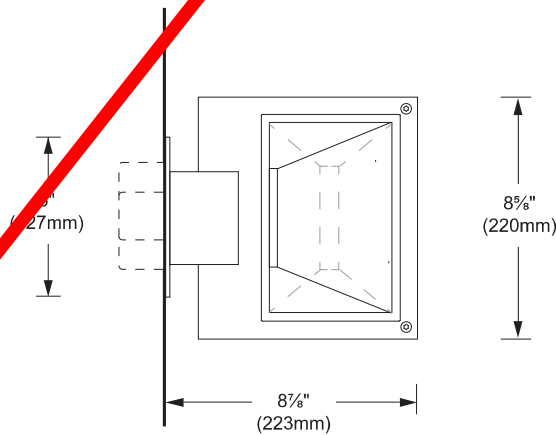
Project :

Page: 3 of 4

## DIMENSIONS



SIDE VIEW



BOTTOM VIEW



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
S3055N-JB-REM-01

Notes:

**Type:**

**E34**

MID23-74318

**MOVIT SQUARE**

**MIN. 1,000 LUMENS, INTEGRAL DRIVER, BLACK FINISH.**

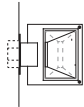
SPECIFICATION SHEET

Project :

Page: 4 of 4

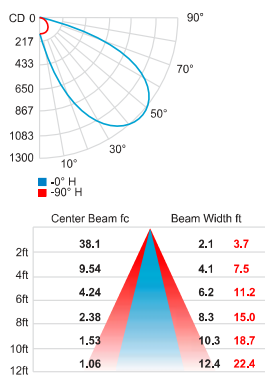
**TECHNICAL DATA**

Visit [sistimalux.com](http://sistimalux.com) for complete photometric data.

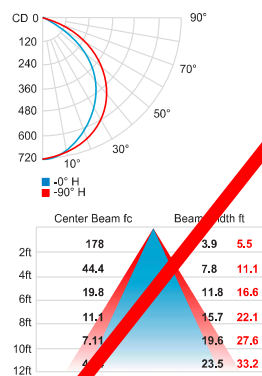


CCT (K)	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODELS
3000K	90	20W	Asymmetrical	1 595	79	1 280	S3050W
				1 545	77	1 250	S3050N
4000K	90	20W	Symmetrical	1 505	75	710	S3055W
				1 560	78	675	S3055N

Asymmetrical (3000K, 90 CRI)



Symmetrical (3000K, 90 CRI)





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
4548-0024-025-UNV-ND

Notes: MAY BE ABLE TO REDUCE POWER  
SUPPLIES

**Type:**

**E34**

MID23-74318

## MOVIT SQUARE

**MIN. 1,000 LUMENS, INTEGRAL DRIVER, BLACK FINISH.**

SPECIFICATION SHEET

Project :

Page: 2 of 4

### ORDERING INFO

**- JB - REM -**

FIXTURE

#### MODEL

**S3050N** - 4000K, Asymmetrical  **S3050W** - 3000K, Asymmetrical  **S3055N** - 4000K, Symmetrical  **S3055W** - 3000K, Symmetrical

#### MOUNTING

**JB** - Surface mounting with box

#### ELECTRICAL

**REM** - 24V remote power supply

#### FINISH

**01** - White  **14** - Aluminum gray

### ACCESSORIES

(TO BE ORDERED SEPARATELY)

- S3049** - Stake for ground installation  
Dim: H:12" (0.26lb)  
Dim: H:310mm (0.12kg)



### REMOTE LED DRIVER OPTION (TO BE ORDERED SEPARATELY)

Requirement for one (1) fixture: 22W, 24V DC (Remote fixture only)

	Watts	Min- Max	Voltage	Rated	Dimming protocol	Box dimensions	Max distance 18AWG	Code
<input type="checkbox"/>	25	1	120-277V	Outdoor	None	7" X 5" X 3" (178 X 127 X 76mm)	30ft (9m)	4548-0024-025-UNV-ND
<input type="checkbox"/>	60	1-2	120-277V	Indoor	None	10" X 8" X 4" (254 X 203 X 102mm)	30ft (9m)	4448-0024-060-UNV-ND
<input type="checkbox"/>	75	1-3	120-277V	Outdoor	None	11" X 3" X 2" (279 X 75 X 51mm)	30ft (9m)	4545-0024-075-UNV-ND
<input type="checkbox"/>	50	1-3	120V	Outdoor	Leading and trailing edge (ELV and TRIAC)	14" X 5" X 2" (356 X 127 X 51mm)	30ft (9m)	4551-0024-080-120-LTE
<input type="checkbox"/>	150	1-6	120-277V	Indoor	0-10V	10" X 8" X 4" (254 X 203 X 102mm)	27ft (8.2m)	4448-0024-150-UNV-D10
<input type="checkbox"/>	200	1-4 Per channel (Max 8)	120-277V	Outdoor	None	12" X 5" X 2" (305 X 127 X 51mm)	30ft (9m) Per channel	4546-0024-200-2C-UNV-ND

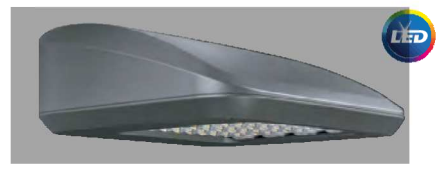
\*The total power of all connected luminaires may not be higher than the power of the driver.



Wall Mount

PureForm

LED wall sconce



**Gardco PureForm LED wall sconce PWS** with precision optics offers a sleek, low profile design that will complement a range of architectural styles. PureForm wall sconce provides up to 21,800 lumens to accommodate multiple mounting heights, and is available with Type 2, 3, 4, as well as our back light control optics. A full range of control options is available for additional energy savings. Optional emergency battery backup option is available for path-of-egress and is integral to the luminaire.

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

**Ordering guide**

example: PWS-48L-500-NW-G2-2-UNV-DGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Distribution	Emergency	Voltage	Options																
							Dimming controls	Motion-sensing lens	Photo-sensing	Electrical & Shield	Finish												
<b>PWS</b>																							
PWS PureForm wall sconce	48L 48 LEDs	300 300mA	WW-G2 Warm White 3000K, 70 CRI Generation 2	2 Type 2	EBPC Emergency Battery Pack Cold Weather 1,3,10	UNV 120-277V	DD 0-10V External dimming (controls by others) <sup>4</sup> DCC Dual Circuit Control <sup>4,5,6,9</sup> FAWS Field Adjustable Wattage Selector <sup>4,5</sup> LCC Integral wireless module <sup>4,6,7,11,13</sup> BL Bi-level functionality <sup>4,13</sup>	IMR12 <sup>15</sup> Integral with #2 lens  IMR13 <sup>15</sup> Integral with #3 lens	PCB Photocontrol Button <sup>7,9,12</sup>	Fusing	F1 Single (120, 277, 347VAC) <sup>8</sup>  F2 Double (208, 240, 480VAC) <sup>8</sup>  F3 Canadian Double Pull (208, 240, 480VAC) <sup>8</sup>	BK Black WH White BZ Bronze DGY Dark Gray MGY Medium Gray	Customer specified	RAL Specify optional color or RAL (ex: RAL7024)	CC Custom color (Must supply color chip for required factory quote)								
		400 400mA														3 Type 3	4 Type 4	BLC Back light control	240 240V	208 208V	277 277V	347 347V	480 480V
		500 500mA																					
	600 600mA	CW-G2 Cool White 5000K, 70 CRI Generation 2	277 277V	347 347V	480 480V																		
	700 700mA	64L 64 LEDs				600 600mA	WY-G2 Warm Yellow 2700K, 80 CRI Generation 2 <sup>2</sup>	347 347V	480 480V														
	800 800mA		BW-G2 Balanced White 3500K, 80CRI Generation 2 <sup>2</sup>	480 480V																			
	900 900mA	AM-G2 Direct Amber (590nm) Generation 2 <sup>2,14</sup>																					

1. Only 300mA can be used with battery backup (EBPC) configuration.
2. Extended lead times apply. Contact factory for details.
3. Available only in 120 or 277V.
4. Not available with other dimming control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Not available in 347 or 480V.
8. Must specify input voltage.
9. Available with two modules per circuit (64L) at 600mA.
10. Not available with DCC and CS/CM.
11. Not available in 800 or 900mA.
12. Not available with 64L.
13. Must specify a motion sensor lens.
14. Limited to max. 600mA configurations
15. Not available with DD, DCC, and FAWS dimming control options.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-3-UNV-BK

Notes:

**Type:**  
**E43**

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

Luminaire Accessories<sup>1</sup> (order separately)

**Mounting Accessories**

**Wall Mount**

PWS-WS-G2 Wall Mounted Box for Surface Conduit Painted Black

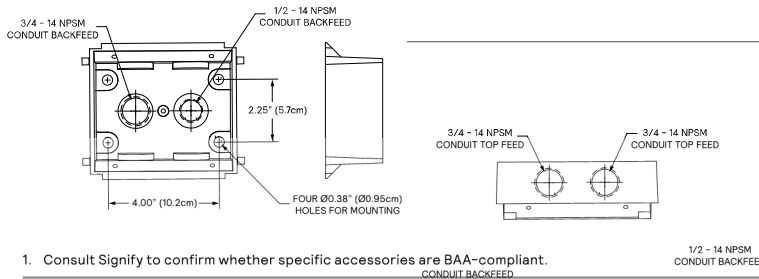
**System accessories**

**Wireless system remote mount module**

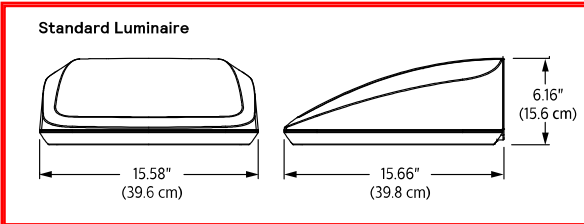
LLCR2-(F) #2 lens - specify finish in place of (F)  
LLCR3-(F) #3 lens - specify finish in place of (F)

**Wireless system remote controller accessory**

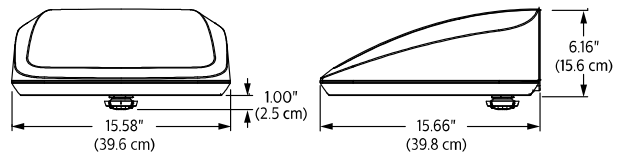
Wireless system offers a remote radio/sensor module that allows connection to a Limelight system (sold by others). Remote module can be mounted to wall or pole with j-box supplied. May be specified by choosing one of two different lenses to accommodate a variety of mounting heights/sensor detection ranges. Must specify option DD on luminaires that are planned to be used with remote mount controllers.



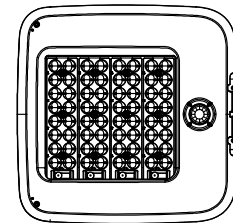
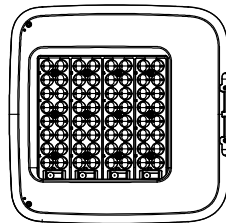
**Dimensions**



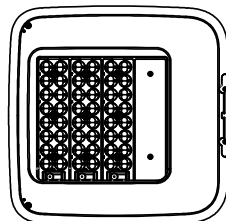
**Motion Response and Wireless System**



4 modules



3 modules



**Luminaire Weights**

PureForm LED wall sconces PWS	Weight
Luminaire	24 lbs
Luminaire - EBPC (EM battery pack)	27 lbs



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-3-UNV-BK

Notes:

**Type:**

**E43**

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

### LED Wattage and Lumen Values - 3000K

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			BLC	
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	BUG Rating	Efficacy (LPW)
PWS-48L-300-WW-G2-x	48	300	3000	47	5755	B2-U0-G1	123	5667	B1-U0-G2	121	5744	B1-U0-G2	123	B0-U0-G1	94
PWS-48L-400-WW-G2-x	48	400	3000	61	7469	B2-U0-G2	122	7357	B1-U0-G2	120	7455	B1-U0-G2	122	B0-U0-G2	93
PWS-48L-500-WW-G2-x	48	500	3000	76	9072	B2-U0-G2	120	8935	B2-U0-G2	118	9056	B2-U0-G2	119	B0-U0-G2	92
PWS-48L-600-WW-G2-x	48	600	3000	91	10657	B2-U0-G2	117	10496	B2-U0-G2	115	10637	B2-U0-G2	117	B1-U0-G2	90
PWS-48L-700-WW-G2-x	48	700	3000	105	12339	B3-U0-G2	118	12154	B2-U0-G2	116	12317	B2-U0-G2	117	B1-U0-G2	90
PWS-64L-600-WW-G2-x	64	600	3000	118	14257	B3-U0-G2	121	14043	B2-U0-G3	120	14231	B2-U0-G3	121	B1-U0-G2	93
PWS-64L-700-WW-G2-x	64	700	3000	137	16076	B3-U0-G3	117	15834	B2-U0-G3	115	16046	B2-U0-G3	117	B1-U0-G2	90
PWS-64L-800-WW-G2-x	64	800	3000	158	17922	B3-U0-G3	113	17653	B3-U0-G3	112	17889	B3-U0-G3	110	B1-U0-G3	87
PWS-64L-900-WW-G2-x	64	900	3000	179	19692	B3-U0-G3	110	19396	B3-U0-G3	108	19656	B3-U0-G3	108	B1-U0-G3	84

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

### LED Wattage and Lumen Values - 4000K

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			BLC	
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	BUG Rating	Efficacy (LPW)
PWS-48L-300-NW-G2-x	48	300	4000	47	6394	B2-U0-G1	137	6298	B1-U0-G2	135	6386	B1-U0-G2	136	B0-U0-G1	105
PWS-48L-400-NW-G2-x	48	400	4000	61	8299	B2-U0-G2	135	8175	B1-U0-G2	133	8290	B1-U0-G2	135	B0-U0-G2	104
PWS-48L-500-NW-G2-x	48	500	4000	76	10080	B2-U0-G2	133	9929	B2-U0-G2	131	10072	B2-U0-G2	133	B0-U0-G2	102
PWS-48L-600-NW-G2-x	48	600	4000	91	11841	B3-U0-G2	130	11664	B2-U0-G2	128	11833	B2-U0-G2	130	B1-U0-G2	100
PWS-48L-700-NW-G2-x	48	700	4000	105	13710	B3-U0-G2	131	13505	B2-U0-G2	129	13702	B2-U0-G3	130	B1-U0-G2	100
PWS-64L-600-NW-G2-x	64	600	4000	118	15841	B3-U0-G3	135	15603	B2-U0-G3	133	15814	B2-U0-G3	135	B1-U0-G2	103
PWS-64L-700-NW-G2-x	64	700	4000	137	17862	B3-U0-G3	130	17594	B3-U0-G3	128	17830	B3-U0-G3	130	B1-U0-G2	100
PWS-64L-800-NW-G2-x	64	800	4000	158	19913	B3-U0-G3	126	19614	B3-U0-G3	124	19878	B3-U0-G4	126	B1-U0-G3	97
PWS-64L-900-NW-G2-x	64	900	4000	179	21880	B3-U0-G3	122	21551	B3-U0-G4	120	21839	B3-U0-G4	122	B1-U0-G3	94

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

### LED Wattage and Lumen Values - 5000K

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			BLC	
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	BUG Rating	Efficacy (LPW)
PWS-48L-300-CW-G2-x	48	300	5000	47	6394	B2-U0-G1	137	6297	B1-U0-G2	135	6382	B1-U0-G2	136	B0-U0-G2	105
PWS-48L-400-CW-G2-x	48	400	5000	61	8299	B2-U0-G2	135	8174	B2-U0-G2	133	8283	B1-U0-G2	135	B0-U0-G2	104
PWS-48L-500-CW-G2-x	48	500	5000	76	10080	B2-U0-G2	133	9928	B2-U0-G2	131	10062	B2-U0-G2	133	B1-U0-G2	102
PWS-48L-600-CW-G2-x	48	600	5000	91	11841	B3-U0-G2	130	11662	B2-U0-G2	128	11819	B2-U0-G2	130	B1-U0-G2	100
PWS-48L-700-CW-G2-x	48	700	5000	105	13710	B3-U0-G2	131	13504	B2-U0-G2	129	13685	B2-U0-G3	130	B1-U0-G2	100
PWS-64L-600-CW-G2-x	64	600	5000	118	15841	B3-U0-G3	135	15603	B2-U0-G3	133	15812	B2-U0-G3	135	B1-U0-G2	103
PWS-64L-700-CW-G2-x	64	700	5000	137	17862	B3-U0-G3	130	17593	B3-U0-G3	128	17829	B3-U0-G3	130	B1-U0-G3	100
PWS-64L-800-CW-G2-x	64	800	5000	158	19913	B3-U0-G3	126	19614	B3-U0-G3	124	19877	B3-U0-G4	126	B1-U0-G3	97
PWS-64L-900-CW-G2-x	64	900	5000	179	21880	B3-U0-G3	122	21551	B3-U0-G4	120	21840	B3-U0-G4	122	B1-U0-G3	94

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-3-UNV-BK

**Type:**  
**E43**

Notes:

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

### LED Wattage and Lumen Values (Emergency Mode)

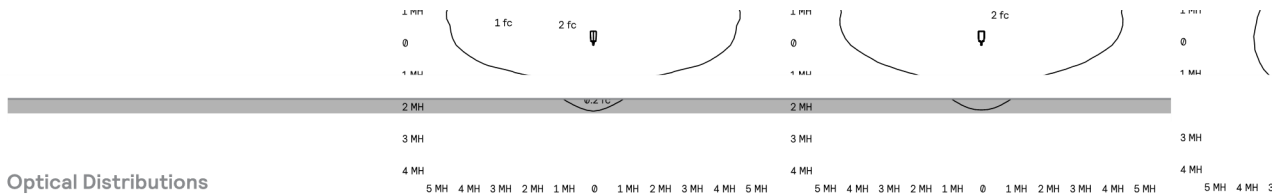
Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Lumen Outputs									
				Avg. System Watts		Type 2		Type 3		Type 4		BLC	
				Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode
PWS-48L-300-NW-G2-x-EBPC	48	300	4000	47	14	6394	2110	6297	2078	6382	2106	4896	1615

For emergency EBPC option, publish values are based on initial lumens.

### Predicted Lumen Depreciation Data

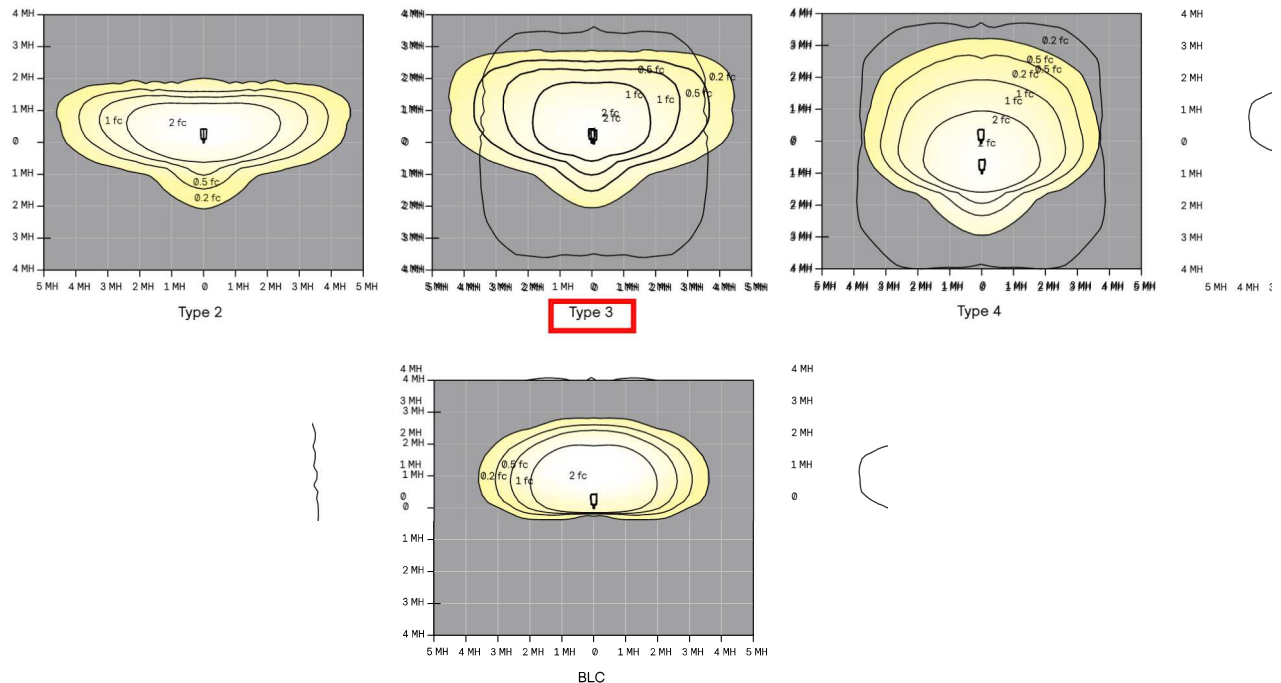
Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours

Ambient Temperature °C	Drive current	Calculated L70 Hours	L70 per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 900 mA	>100,000 hours	>54,000 hours	>96%



### Optical Distributions

Based on 20' mounting height







**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-3-UNV-BK

**Type:**  
**E43**

Notes:

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

### Specifications

#### Housing

Main body housing and door frame made of low copper die cast aluminum alloy for a high resistance to corrosion. Door hinges secured by aircraft cable to allow access to driver or other electronic components for servicing. The door frame acts as the main heat transfer component and it is optimized to allowing the main housing to have no fins, giving the freedom to have a clean minimalist aesthetic design while allowing it to house emergency battery backup equipment and various other options. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

#### Light engine

Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 3 and 4 modules or 48 and 64 LEDs. Module is RoHS compliant. Direct Amber LED is narrow spectrum with dominant wavelength at 596 nm (peak wavelength at 601 nm). Contact factory for details. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

#### Optical systems

Type 2, 3, and 4 distributions available. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (UO per IESNA TM-15).

#### Mounting

Mounting is completed through integral back plate that features a separate recessed feature for hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Luminaire ships fully assembled, ready to install.

#### Control options

**0-10V dimming (DD):** Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

**Field Adjustable Wattage Selector (FAWS):** Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: Typical value accuracy +/- 5%

**Automatic Profile Dimming (CS/CM):** Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule. Automatic dimming profile scheduled with the following settings:

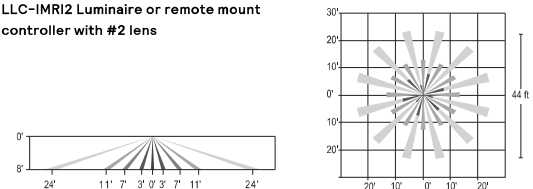
- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 2, or 3 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

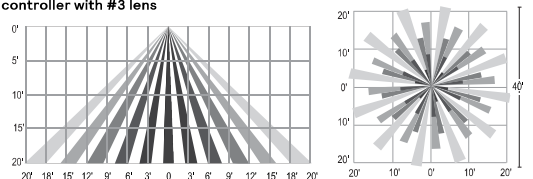
**Emergency Battery Backup Cold Pack (EBPC):** Emergency battery pack is cold weather rated down to -20C (-4F) and integral to the luminaire, allowing for a consistent look between emergency and non-emergency sconces. A separate surface mount accessory box is not required. Emergency battery pack is used with 48L configuration in 300mA wired in parallel, operating in emergency mode to meet various redundancy requirements. Secondary driver with relay immediately detects AC power loss and powers luminaire for a minimum of 90 minutes from the time power is lost. Available in 120 or 277V only.

**Wireless system (LLC):** Optional wireless controller integral to luminaire ready to be connected to a Limelight system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #2 lens (LLC-IMR12) for 8' to 15' mounting height" or #3 lens (LLC-IMR13) for 8-25' mounting heights. Also available with remote pod accessory where pod is mounted separate from luminaire to pole or wall.

LLC-IMR12 Luminaire or remote mount controller with #2 lens



LLC-IMR13 Luminaire or remote mount controller with #3 lens





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-3-UNV-BK

**Type:**  
**E43**

Notes:

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

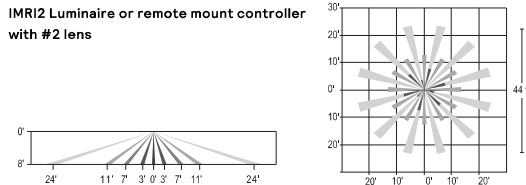
### Specifications (cont'd)

#### Motion response options

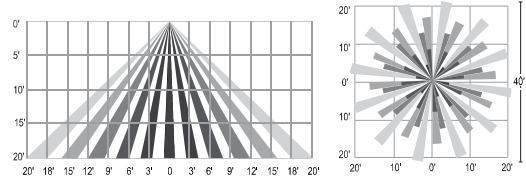
**Bi-Level Infrared Motion Response (BL-IMRI3):** Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

**Infrared Motion Response Lenses (IMRI2/IMRI3):** Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 (IMRI2) is designed for lower mounting heights up to 8' with larger coverage areas up to 44' diameter coverage area. Lens #3 (IMRI3) is designed for mounting heights up to 20' with a 40' diameter coverage area. See charts for approximate detection patterns:

IMRI2 Luminaire or remote mount controller with #2 lens



IMRI3 Luminaire or remote mount controller with #3 lens



#### Electrical

**Driver:** Driver efficiency (>90% standard), 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant.

**Button Photocontrol (PCB):** Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

**Surge protection (SP1/SP2):** Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

#### Listings

UL/cUL listed to the UL 1598 standard, suitable for wet locations when mounted downward facing. Also listed for damp locations when inverted upward facing when mounted in covered ceiling application. Suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most PureForm PWS configurations are qualified under Premium DesignLights Consortium® category. Consult DLC Qualified Products list for more details. CCTs 3000K and warmer are IDA Dark Sky Approved.

#### Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidyl isocyanurate (TGIC) textured polyester powdercoat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

#### Warranty

PureForm luminaires feature a 5-year limited warranty. See [signify.com/warranties](http://signify.com/warranties) for complete details and exclusions.

### Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.



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PWS\_PureForm\_wall\_sconce 04/22 page 6 of 6

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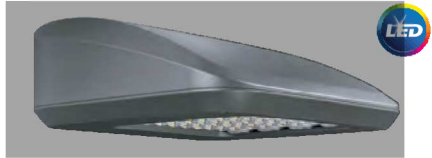
Signify Canada Ltd.  
281 Hillmount Road,  
Markham, ON, Canada L6C 2S3  
Telephone: 800-668-9008

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[www.gardcolighting.com](http://www.gardcolighting.com)



**Wall Mount**  
**PureForm**  
 LED wall sconce



**Gardco PureForm LED wall sconce PWS** with precision optics offers a sleek, low profile design that will complement a range of architectural styles. PureForm wall sconce provides up to 21,800 lumens to accommodate multiple mounting heights, and is available with Type 2, 3, 4, as well as our back light control optics. A full range of control options is available for additional energy savings. Optional emergency battery backup option is available for path-of-egress and is integral to the luminaire.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

**Ordering guide**

example: PWS-48L-500-NW-G2-2-UNV-DGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Distribution	Emergency	Voltage	Options																		
							Dimming controls	Motion-sensing lens	Photo-sensing	Electrical & Shield	Finish														
<b>PWS</b>																									
PWS PureForm wall sconce	48L 48 LEDs	300 300mA	WW-G2 Warm White 3000K, 70 CRI Generation 2	2 Type 2	EBPC Emergency Battery Pack Cold Weather 1,3,10	UNV 120-277V	DD 0-10V External dimming (controls by others) <sup>4</sup> DCC Dual Circuit Control <sup>4,5,6,9</sup> FAWS Field Adjustable Wattage Selector <sup>4,5</sup>	IMR12 <sup>15</sup> Integral with #2 lens	PCB Photocontrol Button <sup>7,8,12</sup>	Fusing	F1 Single (120, 277, 347VAC) <sup>8</sup>	F2 Double (208, 240, 480VAC) <sup>8</sup>	F3 Canadian Double Pull (208, 240, 480VAC) <sup>8</sup>	Surge Protection (10kA is standard) SP2 Increased 20kA	BK Black										
		3 Type 3		WH White																					
		4 Type 4		BZ Bronze																					
		400 400mA	NW-G2 Neutral White 4000K, 70 CRI Generation 2	3 Type 3	Leave blank to omit an emergency option	120 120V	LCC Integral wireless module <sup>4,6,7,11,13</sup> BL Bi-level functionality <sup>4,13</sup>	IMR13 <sup>15</sup> Integral with #3 lens							DGY Dark Gray										
	4 Type 4	MGY Medium Gray																							
	BLC Back light control	Customer specified																							
		500 500mA	CW-G2 Cool White 5000K, 70 CRI Generation 2		DynaDimmer: Automatic Profile Dimming <sup>4,7</sup>	208 208V	CSS0 Security 50% Dimming, 7 hours CM50 Median 50% Dimming, 8 hours CS30 Security 30% Dimming, 7 hours CM30 Median 30% Dimming, 8 hours								RAL Specify optional color or RAL (ex: RAL7024)										
		600 600mA		WY-G2 Warm Yellow 2700K, 80 CRI Generation 2 <sup>2</sup>												240 240V	277 277V								
		700 700mA													BW-G2 Balanced White 3500K, 80CRI Generation 2 <sup>2</sup>										
		800 800mA	AM-G2 Direct Amber (590nm) Generation 2 <sup>2,14</sup>			480 480V																			
		900 900mA														480 480V									
		64L 64 LEDs													480 480V										
		600 600mA			480 480V																				
		700 700mA														480 480V									
		800 800mA													480 480V										
	900 900mA			480 480V																					
	600 600mA													480 480V											
	700 700mA														480 480V										
	800 800mA			480 480V																					
	900 900mA													480 480V											

**CONFIRM**  
**CONFIRMED**

- Only 300mA can be used with battery backup (EBPC) configuration.
- Extended lead times apply. Contact factory for details.
- Available only in 120 or 277V.
- Not available with other dimming control options.
- Not available with motion sensor.
- Not available with photocontrol.
- Not available in 347 or 480V.
- Must specify input voltage.
- Available with two modules per circuit (64L) at 600mA.
- Not available with DCC and CS/CM.
- Not available in 800 or 900mA.
- Not available with 64L.
- Must specify a motion sensor lens.
- Limited to max. 600mA configurations
- Not available with DD, DCC, and FAWS dimming control options.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-3-EBPC-120-BK  
**Notes:** CONFIRM VOLTAGE

**Type:**  
**E43X**

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

Luminaire Accessories<sup>1</sup> (order separately)

**Mounting Accessories**

**Wall Mount**

PWS-WS-G2 Wall Mounted Box for Surface Conduit Painted Black

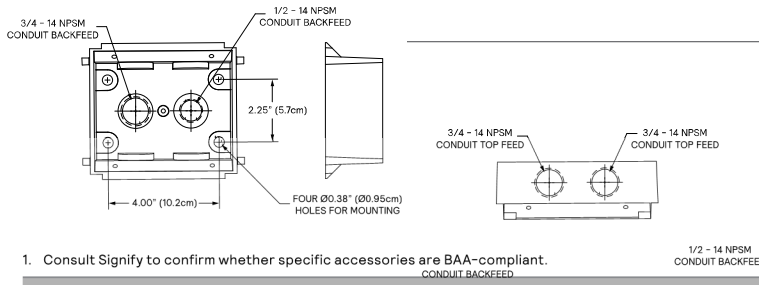
**System accessories**

**Wireless system remote mount module**

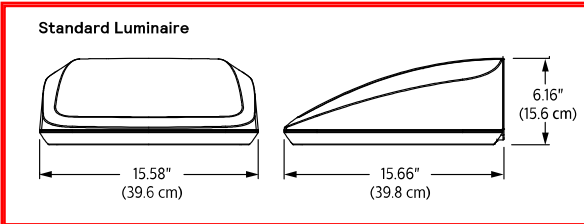
LLCR2-(F) #2 lens - specify finish in place of (F)  
LLCR3-(F) #3 lens - specify finish in place of (F)

**Wireless system remote controller accessory**

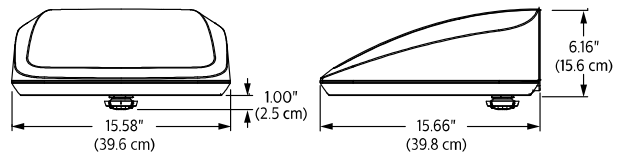
Wireless system offers a remote radio/sensor module that allows connection to a Limelight system (sold by others). Remote module can be mounted to wall or pole with j-box supplied. May be specified by choosing one of two different lenses to accommodate a variety of mounting heights/sensor detection ranges. Must specify option DD on luminaires that are planned to be used with remote mount controllers.



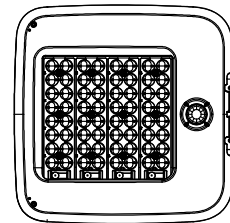
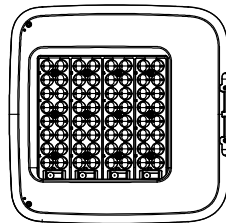
**Dimensions**



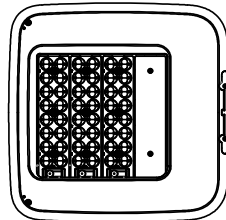
**Motion Response and Wireless System**



4 modules



3 modules



**Luminaire Weights**

PureForm LED wall sconces PWS	Weight
Luminaire	24 lbs
Luminaire - EBPC (EM battery pack)	27 lbs



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-3-EBPC-120-BK  
**Notes:** CONFIRM VOLTAGE

**Type:**  
**E43X**

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

### LED Wattage and Lumen Values - 3000K

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			BLC	
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	BUG Rating	Efficacy (LPW)
PWS-48L-300-WW-G2-x	48	300	3000	47	5755	B2-U0-G1	123	5667	B1-U0-G2	121	5744	B1-U0-G2	123	B0-U0-G1	94
PWS-48L-400-WW-G2-x	48	400	3000	61	7469	B2-U0-G2	122	7357	B1-U0-G2	120	7455	B1-U0-G2	122	B0-U0-G2	93
PWS-48L-500-WW-G2-x	48	500	3000	76	9072	B2-U0-G2	120	8935	B2-U0-G2	118	9056	B2-U0-G2	119	B0-U0-G2	92
PWS-48L-600-WW-G2-x	48	600	3000	91	10657	B2-U0-G2	117	10496	B2-U0-G2	115	10637	B2-U0-G2	117	B1-U0-G2	90
PWS-48L-700-WW-G2-x	48	700	3000	105	12339	B3-U0-G2	118	12154	B2-U0-G2	116	12317	B2-U0-G2	117	B1-U0-G2	90
PWS-64L-600-WW-G2-x	64	600	3000	118	14257	B3-U0-G2	121	14043	B2-U0-G3	120	14231	B2-U0-G3	121	B1-U0-G2	93
PWS-64L-700-WW-G2-x	64	700	3000	137	16076	B3-U0-G3	117	15834	B2-U0-G3	115	16046	B2-U0-G3	117	B1-U0-G2	90
PWS-64L-800-WW-G2-x	64	800	3000	158	17922	B3-U0-G3	113	17653	B3-U0-G3	112	17889	B3-U0-G3	110	B1-U0-G3	87
PWS-64L-900-WW-G2-x	64	900	3000	179	19692	B3-U0-G3	110	19396	B3-U0-G3	108	19656	B3-U0-G3	108	B1-U0-G3	84

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

### LED Wattage and Lumen Values - 4000K

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			BLC	
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	BUG Rating	Efficacy (LPW)
PWS-48L-300-NW-G2-x	48	300	4000	47	6394	B2-U0-G1	137	6298	B1-U0-G2	135	6386	B1-U0-G2	136	B0-U0-G1	105
PWS-48L-400-NW-G2-x	48	400	4000	61	8299	B2-U0-G2	135	8175	B1-U0-G2	133	8290	B1-U0-G2	135	B0-U0-G2	104
PWS-48L-500-NW-G2-x	48	500	4000	76	10080	B2-U0-G2	133	9929	B2-U0-G2	131	10072	B2-U0-G2	133	B0-U0-G2	102
PWS-48L-600-NW-G2-x	48	600	4000	91	11841	B3-U0-G2	130	11664	B2-U0-G2	128	11833	B2-U0-G2	130	B1-U0-G2	100
PWS-48L-700-NW-G2-x	48	700	4000	105	13710	B3-U0-G2	131	13505	B2-U0-G2	129	13702	B2-U0-G3	130	B1-U0-G2	100
PWS-64L-600-NW-G2-x	64	600	4000	118	15841	B3-U0-G3	135	15603	B2-U0-G3	133	15814	B2-U0-G3	135	B1-U0-G2	103
PWS-64L-700-NW-G2-x	64	700	4000	137	17862	B3-U0-G3	130	17594	B3-U0-G3	128	17830	B3-U0-G3	130	B1-U0-G2	100
PWS-64L-800-NW-G2-x	64	800	4000	158	19913	B3-U0-G3	126	19614	B3-U0-G3	124	19878	B3-U0-G4	126	B1-U0-G3	97
PWS-64L-900-NW-G2-x	64	900	4000	179	21880	B3-U0-G3	122	21551	B3-U0-G4	120	21839	B3-U0-G4	122	B1-U0-G3	94

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

### LED Wattage and Lumen Values - 5000K

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			BLC	
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	BUG Rating	Efficacy (LPW)
PWS-48L-300-CW-G2-x	48	300	5000	47	6394	B2-U0-G1	137	6297	B1-U0-G2	135	6382	B1-U0-G2	136	B0-U0-G2	105
PWS-48L-400-CW-G2-x	48	400	5000	61	8299	B2-U0-G2	135	8174	B2-U0-G2	133	8283	B1-U0-G2	135	B0-U0-G2	104
PWS-48L-500-CW-G2-x	48	500	5000	76	10080	B2-U0-G2	133	9928	B2-U0-G2	131	10062	B2-U0-G2	133	B1-U0-G2	102
PWS-48L-600-CW-G2-x	48	600	5000	91	11841	B3-U0-G2	130	11662	B2-U0-G2	128	11819	B2-U0-G2	130	B1-U0-G2	100
PWS-48L-700-CW-G2-x	48	700	5000	105	13710	B3-U0-G2	131	13504	B2-U0-G2	129	13685	B2-U0-G3	130	B1-U0-G2	100
PWS-64L-600-CW-G2-x	64	600	5000	118	15841	B3-U0-G3	135	15603	B2-U0-G3	133	15812	B2-U0-G3	135	B1-U0-G2	103
PWS-64L-700-CW-G2-x	64	700	5000	137	17862	B3-U0-G3	130	17593	B3-U0-G3	128	17829	B3-U0-G3	130	B1-U0-G3	100
PWS-64L-800-CW-G2-x	64	800	5000	158	19913	B3-U0-G3	126	19614	B3-U0-G3	124	19877	B3-U0-G4	126	B1-U0-G3	97
PWS-64L-900-CW-G2-x	64	900	5000	179	21880	B3-U0-G3	122	21551	B3-U0-G4	120	21840	B3-U0-G4	122	B1-U0-G3	94

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-3-EBPC-120-BK  
Notes: CONFIRM VOLTAGE

**Type:**  
**E43X**

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

### LED Wattage and Lumen Values (Emergency Mode)

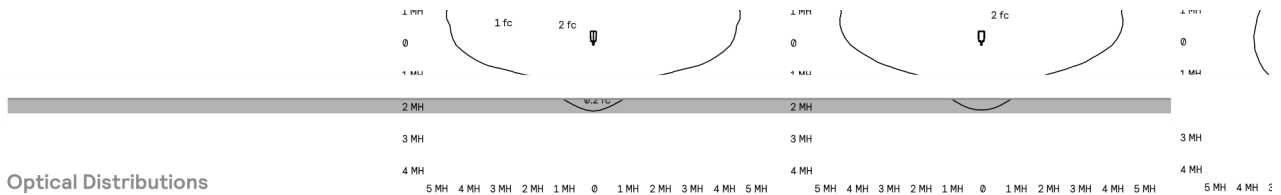
Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Avg. System Watts		Lumen Outputs							
				Normal Mode	Emergency Mode	Type 2		Type 3		Type 4		BLC	
						Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode
PWS-48L-300-NW-G2-x-EBPC	48	300	4000	47	14	6394	2110	6297	2078	6382	2106	4896	1615

For emergency EBPC option, publish values are based on initial lumens.

### Predicted Lumen Depreciation Data

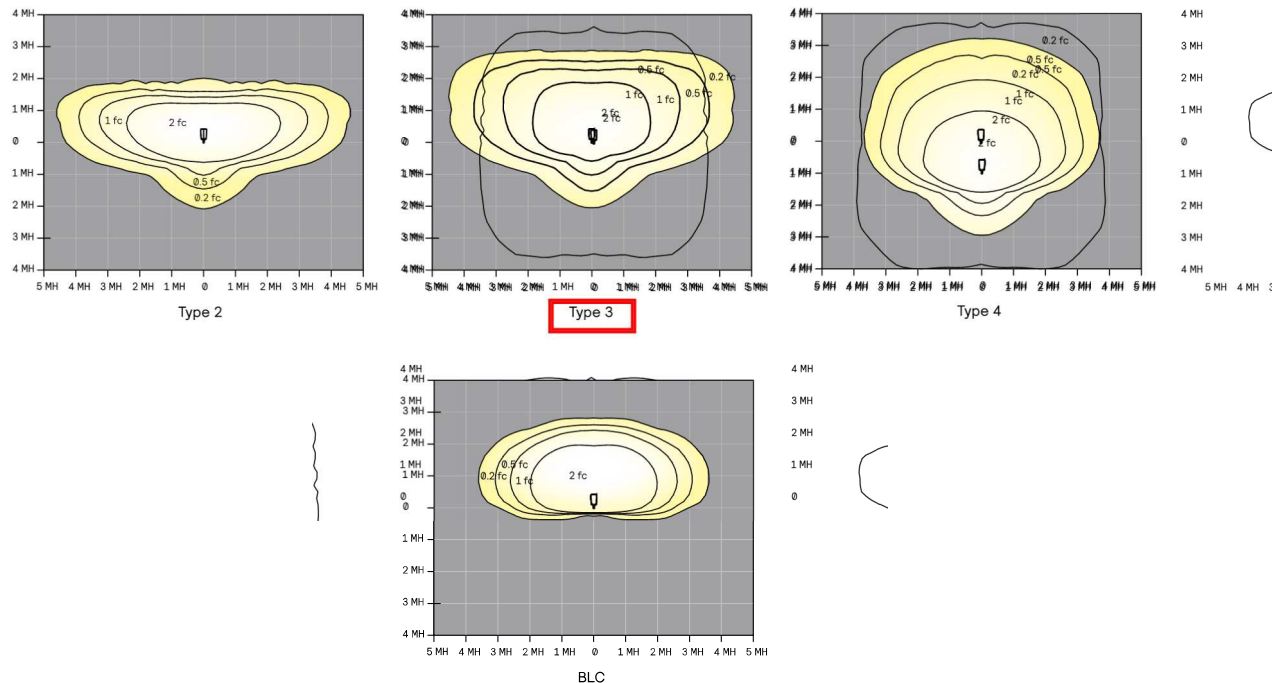
Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours

Ambient Temperature °C	Drive current	Calculated L70 Hours	L70 per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 900 mA	>100,000 hours	>54,000 hours	>96%



### Optical Distributions

Based on 20' mounting height







**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-3-EBPC-120-BK  
**Notes:** CONFIRM VOLTAGE

**Type:**  
**E43X**  
MID23-74318

# PWS PureForm LED wall sconce

## wall mount

### Specifications

#### Housing

Main body housing and door frame made of low copper die cast aluminum alloy for a high resistance to corrosion. Door hinges secured by aircraft cable to allow access to driver or other electronic components for servicing. The door frame acts as the main heat transfer component and it is optimized to allowing the main housing to have no fins, giving the freedom to have a clean minimalist aesthetic design while allowing it to house emergency battery backup equipment and various other options. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

#### Light engine

Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 3 and 4 modules or 48 and 64 LEDs. Module is RoHS compliant. Direct Amber LED is narrow spectrum with dominant wavelength at 596 nm (peak wavelength at 601 nm). Contact factory for details. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

#### Optical systems

Type 2, 3, and 4 distributions available. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (UO per IESNA TM-15).

#### Mounting

Mounting is completed through integral back plate that features a separate recessed feature for hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Luminaire ships fully assembled, ready to install.

#### Control options

**0-10V dimming (DD):** Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

**Field Adjustable Wattage Selector (FAWS):** Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: Typical value accuracy +/- 5%

**Automatic Profile Dimming (CS/CM):** Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule. Automatic dimming profile scheduled with the following settings:

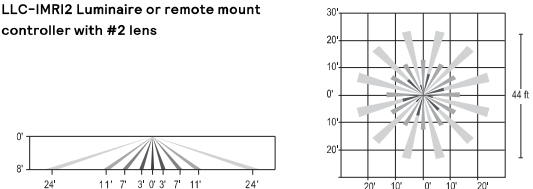
- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 2, or 3 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

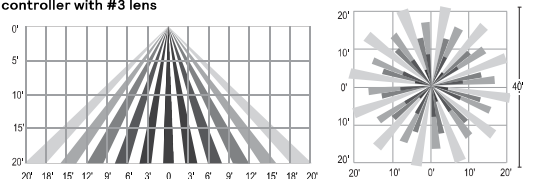
**Emergency Battery Backup Cold Pack (EBPC):** Emergency battery pack is cold weather rated down to -20C (-4F) and integral to the luminaire, allowing for a consistent look between emergency and non-emergency sconces. A separate surface mount accessory box is not required. Emergency battery pack is used with 48L configuration in 300mA wired in parallel, operating in emergency mode to meet various redundancy requirements. Secondary driver with relay immediately detects AC power loss and powers luminaire for a minimum of 90 minutes from the time power is lost. Available in 120 or 277V only.

**Wireless system (LLC):** Optional wireless controller integral to luminaire ready to be connected to a Limelight system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #2 lens (LLC-IMR12) for 8' to 15' mounting height" or #3 lens (LLC-IMR13) for 8-25' mounting heights. Also available with remote pod accessory where pod is mounted separate from luminaire to pole or wall.

LLC-IMR12 Luminaire or remote mount controller with #2 lens



LLC-IMR13 Luminaire or remote mount controller with #3 lens





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-3-EBPC-120-BK  
**Notes:** CONFIRM VOLTAGE

**Type:**  
**E43X**

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

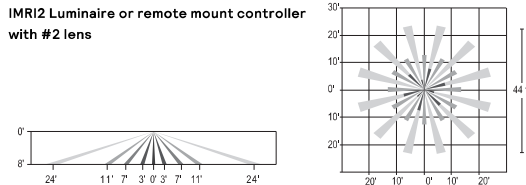
### Specifications (cont'd)

#### Motion response options

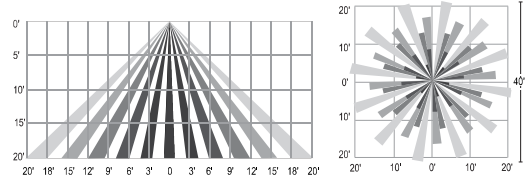
**Bi-Level Infrared Motion Response (BL-IMRI3):** Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

**Infrared Motion Response Lenses (IMRI2/IMRI3):** Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 (IMRI2) is designed for lower mounting heights up to 8' with larger coverage areas up to 44' diameter coverage area. Lens #3 (IMRI3) is designed for mounting heights up to 20' with a 40' diameter coverage area. See charts for approximate detection patterns:

IMRI2 Luminaire or remote mount controller with #2 lens



IMRI3 Luminaire or remote mount controller with #3 lens



#### Electrical

**Driver:** Driver efficiency (>90% standard), 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant.

**Button Photocontrol (PCB):** Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

**Surge protection (SP1/SP2):** Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

#### Listings

UL/cUL listed to the UL 1598 standard, suitable for wet locations when mounted downward facing. Also listed for damp locations when inverted upward facing when mounted in covered ceiling application. Suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most PureForm PWS configurations are qualified under Premium DesignLights Consortium® category. Consult DLC Qualified Products list for more details. CCTs 3000K and warmer are IDA Dark Sky Approved.

#### Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidyl isocyanurate (TGIC) textured polyester powdercoat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

#### Warranty

PureForm luminaires feature a 5-year limited warranty. See [signify.com/warranties](http://signify.com/warranties) for complete details and exclusions.

### Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.



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PWS\_PureForm\_wall\_sconce 04/22 page 6 of 6

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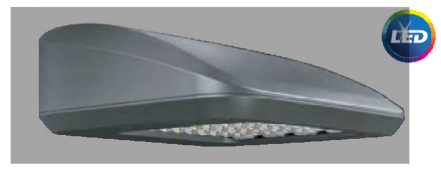
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**Wall Mount**  
**PureForm**  
LED wall sconce



Gardco PureForm LED wall sconce PWS with precision optics offers a sleek, low profile design that will complement a range of architectural styles. PureForm wall sconce provides up to 21,800 lumens to accommodate multiple mounting heights, and is available with Type 2, 3, 4, as well as our back light control optics. A full range of control options is available for additional energy savings. Optional emergency battery backup option is available for path-of-egress and is integral to the luminaire.

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

**PROVIDE E44X, SAME AS E44 BUT WITH INTEGRAL EM COLD WEATHER BATTERY, 120V.**

**Ordering guide** example: PWS-48L-500-NW-G2-2-UNV-DGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Distribution	Emergency	Voltage	Options												
							Dimming controls	Motion-sensing lens	Photo-sensing	Electrical & Shield	Finish								
<b>PWS</b>																			
PWS PureForm wall sconce	48L 48 LEDs	300 300mA	WW-G2 Warm White 3000K, 70 CRI Generation 2	2 Type 2	EBPC Emergency Battery Pack Cold Weather 1,3,10	UNV 120-277V	DD 0-10V External dimming (controls by others) <sup>4</sup> DCC Dual Circuit Control <sup>4,5,6,9</sup> FAWS Field Adjustable Wattage Selector <sup>4,5</sup> LCC Integral wireless module <sup>4,6,7,11,13</sup> BL Bi-level functionality <sup>4,13</sup>	IMR12 <sup>15</sup> Integral with #2 lens  IMR13 <sup>15</sup> Integral with #3 lens	PCB Photocontrol Button <sup>7,8,12</sup>	Fusing	F1 Single (120, 277, 347VAC) <sup>8</sup>  F2 Double (208, 240, 480VAC) <sup>8</sup>  F3 Canadian Double Pull (208, 240, 480VAC) <sup>8</sup>	BK Black  WH White BZ Bronze DGY Dark Gray MGY Medium Gray	Customer specified	RAL Specify optional color or RAL (ex: RAL7024)					
		400 400mA													3 Type 3	Leave blank to omit an emergency option	DynaDimmer: Automatic Profile Dimming <sup>4,7</sup>  CSS0 Security 50% Dimming, 7 hours CM50 Median 50% Dimming, 8 hours CS30 Security 30% Dimming, 7 hours CM30 Median 30% Dimming, 8 hours	Surge Protection (10kA is standard) SP2 Increased 20kA	CC Custom color (Must supply color chip for required factory quote)
		500 500mA																	
	600 600mA	BLC Back light control																	
	700 700mA		CW-G2 Cool White 5000K, 70 CRI Generation 2																
	64L 64 LEDs			600 600mA	WY-G2 Warm Yellow 2700K, 80 CRI Generation 2 <sup>2</sup>														
	700 700mA	347 347V																	
	800 800mA		480 480V																
	900 900mA			BW-G2 Balanced White 3500K, 80CRI Generation 2 <sup>2</sup>															
		AM-G2 Direct Amber (590nm) Generation 2 <sup>2,14</sup>																	

- Only 300mA can be used with battery backup (EBPC) configuration.
- Extended lead times apply. Contact factory for details.
- Available only in 120 or 277V.
- Not available with other dimming control options.
- Not available with motion sensor.
- Not available with photocontrol.
- Not available in 347 or 480V.
- Must specify input voltage.
- Available with two modules per circuit (64L) at 600mA.
- Not available with DCC and CS/CM.
- Not available in 800 or 900mA.
- Not available with 64L.
- Must specify a motion sensor lens.
- Limited to max. 600mA configurations
- Not available with DD, DCC, and FAWS dimming control options.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-4-UNV-BK

**Type:**  
**E44**

Notes:

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

Luminaire Accessories<sup>1</sup> (order separately)

**Mounting Accessories**

**Wall Mount**

PWS-WS-G2 Wall Mounted Box for Surface Conduit Painted Black

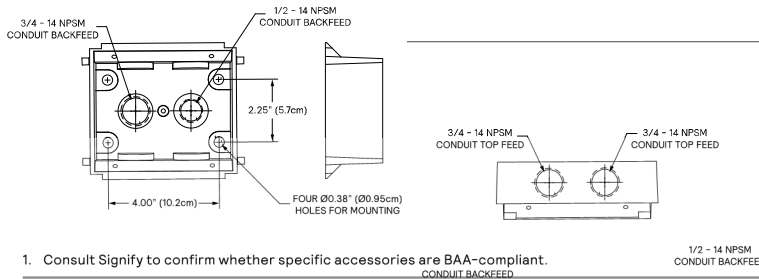
**System accessories**

**Wireless system remote mount module**

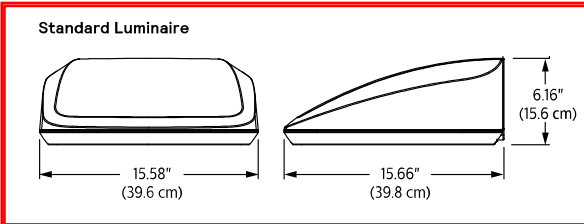
LLCR2-(F) #2 lens - specify finish in place of (F)  
LLCR3-(F) #3 lens - specify finish in place of (F)

**Wireless system remote controller accessory**

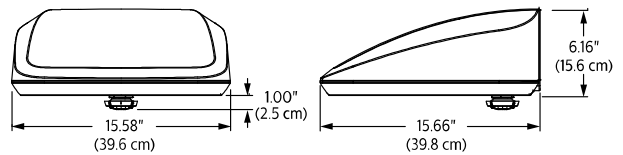
Wireless system offers a remote radio/sensor module that allows connection to a Limelight system (sold by others). Remote module can be mounted to wall or pole with j-box supplied. May be specified by choosing one of two different lenses to accommodate a variety of mounting heights/sensor detection ranges. Must specify option DD on luminaires that are planned to be used with remote mount controllers.



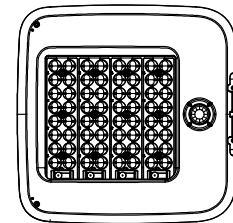
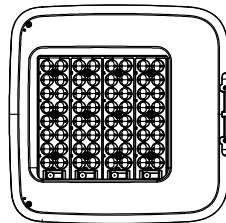
**Dimensions**



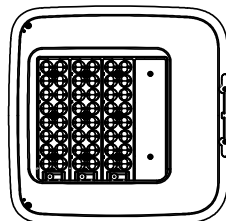
**Motion Response and Wireless System**



4 modules



3 modules



**Luminaire Weights**

PureForm LED wall sconces PWS	Weight
Luminaire	24 lbs
Luminaire - EBPC (EM battery pack)	27 lbs



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-4-UNV-BK

Notes:

**Type:**

**E44**

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

### LED Wattage and Lumen Values - 3000K

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			BLC	
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	BUG Rating	Efficacy (LPW)
PWS-48L-300-WW-G2-x	48	300	3000	47	5755	B2-U0-G1	123	5667	B1-U0-G2	121	5744	B1-U0-G2	123	B0-U0-G1	94
PWS-48L-400-WW-G2-x	48	400	3000	61	7469	B2-U0-G2	122	7357	B1-U0-G2	120	7455	B1-U0-G2	122	B0-U0-G2	93
PWS-48L-500-WW-G2-x	48	500	3000	76	9072	B2-U0-G2	120	8935	B2-U0-G2	118	9056	B2-U0-G2	119	B0-U0-G2	92
PWS-48L-600-WW-G2-x	48	600	3000	91	10657	B2-U0-G2	117	10496	B2-U0-G2	115	10637	B2-U0-G2	117	B1-U0-G2	90
PWS-48L-700-WW-G2-x	48	700	3000	105	12339	B3-U0-G2	118	12154	B2-U0-G2	116	12317	B2-U0-G2	117	B1-U0-G2	90
PWS-64L-600-WW-G2-x	64	600	3000	118	14257	B3-U0-G2	121	14043	B2-U0-G3	120	14231	B2-U0-G3	121	B1-U0-G2	93
PWS-64L-700-WW-G2-x	64	700	3000	137	16076	B3-U0-G3	117	15834	B2-U0-G3	115	16046	B2-U0-G3	117	B1-U0-G2	90
PWS-64L-800-WW-G2-x	64	800	3000	158	17922	B3-U0-G3	113	17653	B3-U0-G3	112	17889	B3-U0-G3	110	B1-U0-G3	87
PWS-64L-900-WW-G2-x	64	900	3000	179	19692	B3-U0-G3	110	19396	B3-U0-G3	108	19656	B3-U0-G3	108	B1-U0-G3	84

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

### LED Wattage and Lumen Values - 4000K

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			BLC	
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	BUG Rating	Efficacy (LPW)
PWS-48L-300-NW-G2-x	48	300	4000	47	6394	B2-U0-G1	137	6298	B1-U0-G2	135	6386	B1-U0-G2	136	B0-U0-G1	105
PWS-48L-400-NW-G2-x	48	400	4000	61	8299	B2-U0-G2	135	8175	B1-U0-G2	133	8290	B1-U0-G2	135	B0-U0-G2	104
PWS-48L-500-NW-G2-x	48	500	4000	76	10080	B2-U0-G2	133	9929	B2-U0-G2	131	10072	B2-U0-G2	133	B0-U0-G2	102
PWS-48L-600-NW-G2-x	48	600	4000	91	11841	B3-U0-G2	130	11664	B2-U0-G2	128	11833	B2-U0-G2	130	B1-U0-G2	100
PWS-48L-700-NW-G2-x	48	700	4000	105	13710	B3-U0-G2	131	13505	B2-U0-G2	129	13702	B2-U0-G3	130	B1-U0-G2	100
PWS-64L-600-NW-G2-x	64	600	4000	118	15841	B3-U0-G3	135	15603	B2-U0-G3	133	15814	B2-U0-G3	135	B1-U0-G2	103
PWS-64L-700-NW-G2-x	64	700	4000	137	17862	B3-U0-G3	130	17594	B3-U0-G3	128	17830	B3-U0-G3	130	B1-U0-G2	100
PWS-64L-800-NW-G2-x	64	800	4000	158	19913	B3-U0-G3	126	19614	B3-U0-G3	124	19878	B3-U0-G4	126	B1-U0-G3	97
PWS-64L-900-NW-G2-x	64	900	4000	179	21880	B3-U0-G3	122	21551	B3-U0-G4	120	21839	B3-U0-G4	122	B1-U0-G3	94

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

### LED Wattage and Lumen Values - 5000K

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			BLC	
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	BUG Rating	Efficacy (LPW)
PWS-48L-300-CW-G2-x	48	300	5000	47	6394	B2-U0-G1	137	6297	B1-U0-G2	135	6382	B1-U0-G2	136	B0-U0-G2	105
PWS-48L-400-CW-G2-x	48	400	5000	61	8299	B2-U0-G2	135	8174	B2-U0-G2	133	8283	B1-U0-G2	135	B0-U0-G2	104
PWS-48L-500-CW-G2-x	48	500	5000	76	10080	B2-U0-G2	133	9928	B2-U0-G2	131	10062	B2-U0-G2	133	B1-U0-G2	102
PWS-48L-600-CW-G2-x	48	600	5000	91	11841	B3-U0-G2	130	11662	B2-U0-G2	128	11819	B2-U0-G2	130	B1-U0-G2	100
PWS-48L-700-CW-G2-x	48	700	5000	105	13710	B3-U0-G2	131	13504	B2-U0-G2	129	13685	B2-U0-G3	130	B1-U0-G2	100
PWS-64L-600-CW-G2-x	64	600	5000	118	15841	B3-U0-G3	135	15603	B2-U0-G3	133	15812	B2-U0-G3	135	B1-U0-G2	103
PWS-64L-700-CW-G2-x	64	700	5000	137	17862	B3-U0-G3	130	17593	B3-U0-G3	128	17829	B3-U0-G3	130	B1-U0-G3	100
PWS-64L-800-CW-G2-x	64	800	5000	158	19913	B3-U0-G3	126	19614	B3-U0-G3	124	19877	B3-U0-G4	126	B1-U0-G3	97
PWS-64L-900-CW-G2-x	64	900	5000	179	21880	B3-U0-G3	122	21551	B3-U0-G4	120	21840	B3-U0-G4	122	B1-U0-G3	94

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-4-UNV-BK

**Type:**  
**E44**

Notes:

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

### LED Wattage and Lumen Values (Emergency Mode)

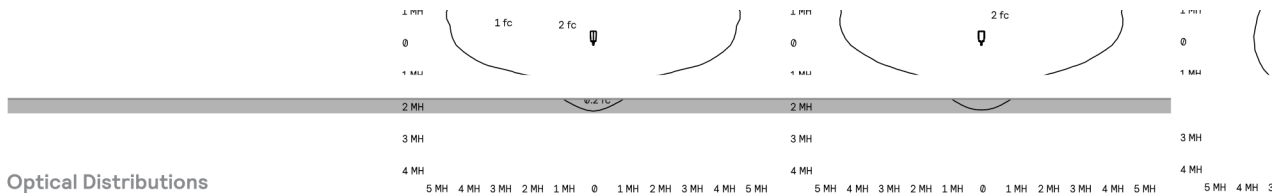
Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Lumen Outputs									
				Avg. System Watts		Type 2		Type 3		Type 4		BLC	
				Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode
PWS-48L-300-NW-G2-x-EBPC	48	300	4000	47	14	6394	2110	6297	2078	6382	2106	4896	1615

For emergency EBPC option, publish values are based on initial lumens.

### Predicted Lumen Depreciation Data

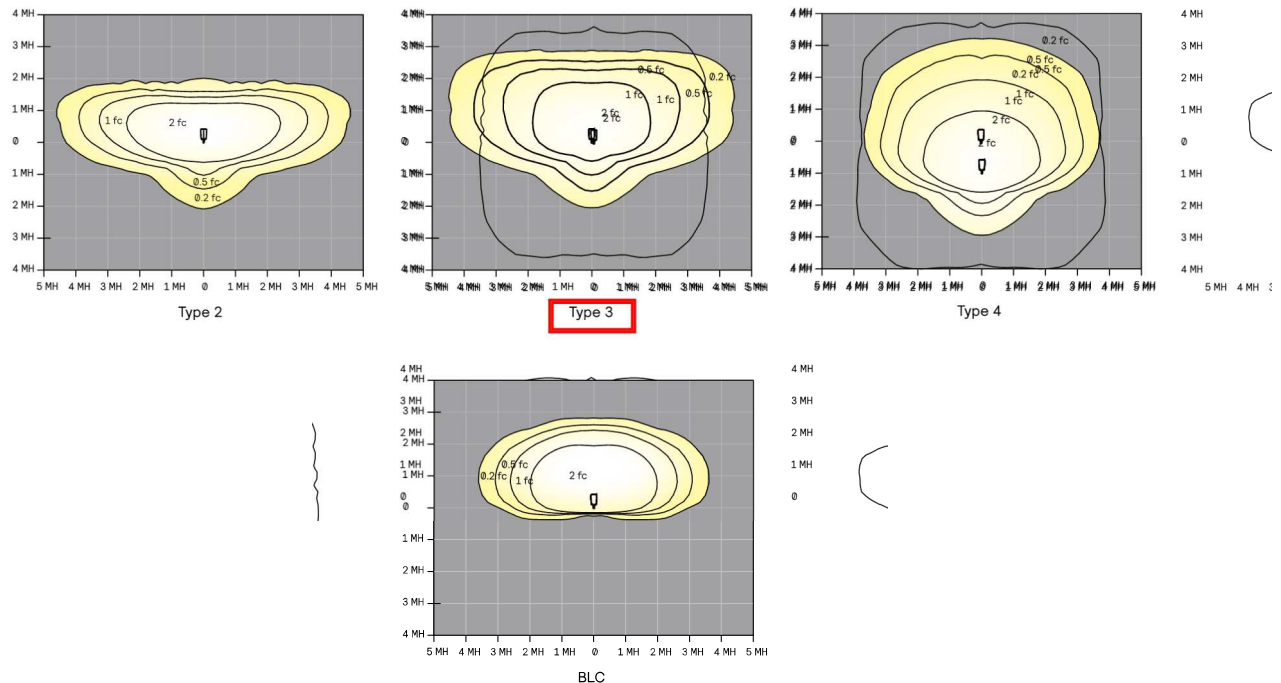
Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours

Ambient Temperature °C	Drive current	Calculated L70 Hours	L70 per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 900 mA	>100,000 hours	>54,000 hours	>96%



### Optical Distributions

Based on 20' mounting height





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-4-UNV-BK

**Type:**

**E44**

Notes:

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

### Specifications

#### Housing

Main body housing and door frame made of low copper die cast aluminum alloy for a high resistance to corrosion. Door hinges secured by aircraft cable to allow access to driver or other electronic components for servicing. The door frame acts as the main heat transfer component and it is optimized to allowing the main housing to have no fins, giving the freedom to have a clean minimalist aesthetic design while allowing it to house emergency battery backup equipment and various other options. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

#### Light engine

Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 3 and 4 modules or 48 and 64 LEDs. Module is RoHS compliant. Direct Amber LED is narrow spectrum with dominant wavelength at 596 nm (peak wavelength at 601 nm). Contact factory for details. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

#### Optical systems

Type 2, 3, and 4 distributions available. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (UO per IESNA TM-15).

#### Mounting

Mounting is completed through integral back plate that features a separate recessed feature for hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Luminaire ships fully assembled, ready to install.

#### Control options

**0-10V dimming (DD):** Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

**Field Adjustable Wattage Selector (FAWS):** Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: Typical value accuracy +/- 5%

**Automatic Profile Dimming (CS/CM):** Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule. Automatic dimming profile scheduled with the following settings:

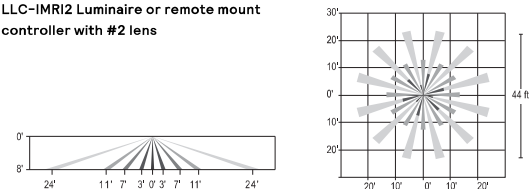
- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 2, or 3 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

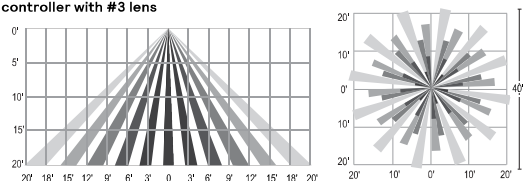
**Emergency Battery Backup Cold Pack (EBPC):** Emergency battery pack is cold weather rated down to -20C (-4F) and integral to the luminaire, allowing for a consistent look between emergency and non-emergency sconces. A separate surface mount accessory box is not required. Emergency battery pack is used with 48L configuration in 300mA wired in parallel, operating in emergency mode to meet various redundancy requirements. Secondary driver with relay immediately detects AC power loss and powers luminaire for a minimum of 90 minutes from the time power is lost. Available in 120 or 277V only.

**Wireless system (LLC):** Optional wireless controller integral to luminaire ready to be connected to a Limelight system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #2 lens (LLC-IMR12) for 8' to 15' mounting height" or #3 lens (LLC-IMR13) for 8-25' mounting heights. Also available with remote pod accessory where pod is mounted separate from luminaire to pole or wall.

LLC-IMR12 Luminaire or remote mount controller with #2 lens



LLC-IMR13 Luminaire or remote mount controller with #3 lens





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PWS-48L-300-NW-G2-4-UNV-BK

**Type:**

**E44**

Notes:

MID23-74318

# PWS PureForm LED wall sconce

## wall mount

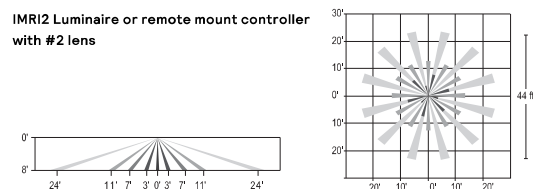
### Specifications (cont'd)

#### Motion response options

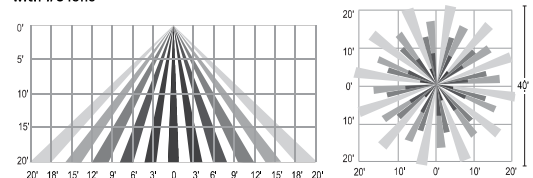
**Bi-Level Infrared Motion Response (BL-IMRI3):** Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

**Infrared Motion Response Lenses (IMRI2/IMRI3):** Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 (IMRI2) is designed for lower mounting heights up to 8' with larger coverage areas up to 44' diameter coverage area. Lens #3 (IMRI3) is designed for mounting heights up to 20' with a 40' diameter coverage area. See charts for approximate detection patterns:

IMRI2 Luminaire or remote mount controller with #2 lens



IMRI3 Luminaire or remote mount controller with #3 lens



#### Electrical

**Driver:** Driver efficiency (>90% standard), 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant.

**Button Photocontrol (PCB):** Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

**Surge protection (SP1/SP2):** Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

#### Listings

UL/cUL listed to the UL 1598 standard, suitable for wet locations when mounted downward facing. Also listed for damp locations when inverted upward facing when mounted in covered ceiling application. Suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most PureForm PWS configurations are qualified under Premium DesignLights Consortium® category. Consult DLC Qualified Products list for more details. CCTs 3000K and warmer are IDA Dark Sky Approved.

#### Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidyl isocyanurate (TGIC) textured polyester powdercoat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

#### Warranty

PureForm luminaires feature a 5-year limited warranty. See [signify.com/warranties](http://signify.com/warranties) for complete details and exclusions.

### Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.



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PWS\_PureForm\_wall\_sconce 04/22 page 6 of 6


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## Landscape

### 94 Line Series

941L, 942L, & 943L



The Gardco LED step and aisle lights 941L, 942L & 943L are architecturally styled luminaires precisely constructed of die cast aluminum, providing light with high performance, long life LED systems. Retrofit kits are also available, making it possible to update installations of classic 941, 942 and 943 Gardco fluorescent and HID step lights to LED without the need to replace the back housing. A field adjustable junction box enhances design flexibility. Self-compensating silicone gasketing completely excludes moisture, insects and contaminants. A choice of three (3) architecturally designed faceplates allows for a variety of applications. The ribbed guard faceplate offers vandal protection for glass lenses.

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

Complete luminaire consists of a luminaire & back-box (each must be purchased separately)

**Ordering guide**

example: 941L-21L-CW-D-LV-120-F-BZ

Prefix	Wattage	Color Temp Generation	Wall Type	Faceplates	Voltage	Options	Finish
<b>Complete Luminaires</b>	<b>21L</b> 21W, intergral lens array (350mA)	<b>CW</b> Cool White 5700K, 70CRI	<b>D</b> Drywall <sup>1</sup>	<b>LV</b> Louver	<b>120</b> 120V <sup>4</sup>	<b>F</b> Fusing (provide specific input voltage)	<b>BZ</b> Textured bronze
<b>941L</b> Horizontal <sup>1</sup>			Not suitable for concrete pour applications. Also, if insulating material is present, it must be kept at least 3" away from luminaire. Type D units are thermally protected. Non-IC luminaire.	<b>DG1</b> Diffuse Glass	<b>277</b> 277V <sup>4</sup>		<b>WH</b> Textured white
<b>942L</b> Horizontal	<b>31L</b> 31W, integral lens array (530mA)	<b>NW</b> Neutral White 4000K, 70CRI	<b>C</b> Concrete Pour <sup>1</sup>	<b>RGD</b> Ribbed Guard with Diffuse Glass <sup>1</sup>	<b>UNV</b> 120-277V <sup>5</sup> 50hz/60hz	<b>TP</b> Tamper Resistant Screws	<b>BK</b> Textured black
<b>943L</b> Vertical		<b>WW</b> warm white 3000K, 70CRI	Suitable for concrete pour applications only.				<b>DGY</b> Dark grey
Retrofit Kits <sup>1</sup>							<b>OC</b> Optional color (specify the RAL designation) ex: OC-RAL7024
<b>RK-941L</b> Horizontal <sup>1,2</sup>							<b>SC</b> Special color paint (must supply color chip to specify)
<b>RK-942L</b> Horizontal <sup>2</sup>							
<b>RK-943L</b> Vertical							

COORDINATE INSTALL  
IN SEATING BOWL

1. 941L and RK-941L are not available with the RGD faceplate.
2. Retrofit kits are available in Wall Type "C" only (Concrete Pour.) Retrofit kits are not available for existing Wall Type "D" (Drywall) luminaires.
3. 941L is not available in 40LA (700mA) LED wattage. Lumen values shown are based on Bronze painted faceplates. Values will vary based on the faceplate color.
4. Wall Type D luminaires only.
5. UNIV means 120V through 277V input
6. Back box (order separately, field installed)

Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

**Back box (order separately, field installed)**

<b>941L D HSG/HWK ASSY</b>	Back box for 941L drywall application
<b>941L C HSG/HWK ASSY</b>	Back box for 941L concrete application
<b>942L D HSG/HWK ASSY</b>	Back box for 942L drywall application
<b>942L C HSG/HWK ASSY</b>	Back box for 9412 concrete application
<b>943L D HSG/HWK ASSY</b>	Back box for 943L drywall application
<b>943L C HSG/HWK ASSY</b>	Back box for 943L concrete application







**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
942L-21L-NW-C-RGD-UNV-BK

Notes:

**Type:**  
**E81**

MID23-74318

# 941L, 942L & 943L 94 Line series

## Landscape

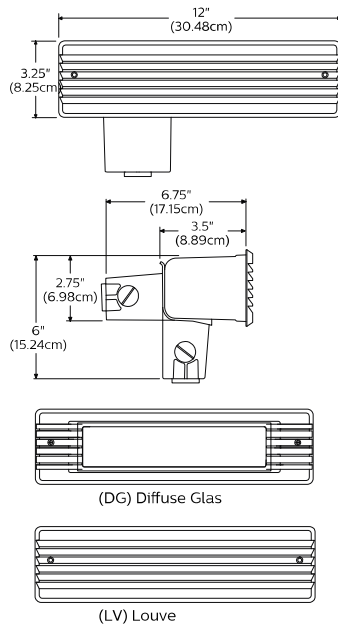
### LED Wattage and Lumen Values

	Neutral White									Cool White									Warm White								
	942-LV	942-DG	942-RGD	943-LV	943-DG	943-RGD	941-LV	941-DG	941-RGD	942-LV	942-DG	942-RGD	943-LV	943-DG	943-RGD	941-LV	941-DG	941-RGD	942-LV	942-DG	942-RGD	943-LV	943-DG	943-RGD	941-LV	941-DG	941-RGD
	<b>Lumens</b>																										
36-530-BZ	178	1037	344	315	1037	344	157	794	182	1061	352	322	1061	352	161	813	174	1011	335	307	1011	335	153	774			
36-530-WH	323	1202	622	693	1202	398	455	920	331	1230	637	709	1230	408	466	942	315	1172	606	676	1172	388	443	897			
36-350-BZ	122	711	236	216	711	236	108	544	125	727	241	221	727	241	110	557	119	693	230	210	693	230	105	531			
36-350-WH	222	824	426	475	824	273	312	631	227	843	436	486	843	279	319	646	216	803	416	463	803	266	304	615			
	<b>Wattage</b>																										
36-530-BZ	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32		
36-530-WH	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32		
36-350-BZ	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		
36-350-WH	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		

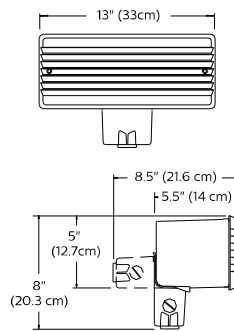
1. Wattage may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input. Actual wattage may vary by an additional +/- 10% due to actual input voltage.
2. Values shown are for luminaires without the DL options. Contact outdoorlighting.applications@signify.com if any approximate estimates are required for design purposes.
3. Lumen values based on tests performed in compliance with IESNA LM-79 (12.7cm)



### 941L Dimensions

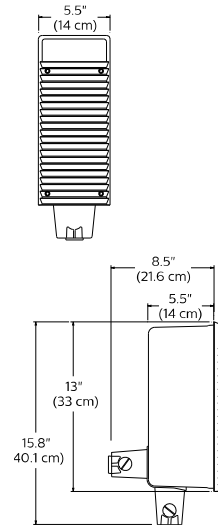


### 942L Dimensions



R 6"

### 943L Dimensions





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
942L-21L-NW-C-RGD-UNV-BK

**Type:**  
**E81**

Notes:

MID23-74318

# 941L, 942L & 943L 94 Line series

## Landscape

### Specifications

#### General

The Gardco 941L, 942L and 943L recessed aisle lights are architecturally styled luminaires precisely constructed of die cast aluminum, providing light with high performance, long life LED systems. A field adjustable junction box enhances design flexibility. Self-compensating silicone gasketing completely excludes moisture, insects and contaminants. A choice of three (3) architecturally designed faceplates allows for a variety of applications. The ribbed guard faceplate offers vandal protection for glass lenses.

#### Housing

Corrosion-resistant die cast aluminum.

#### Retrofit kits

Retrofit kits are also available, making it possible to update installations of classic 941, 942 and 943 Gardco fluorescent and HID step lights to LED without the need to replace the back housing. Retrofit kits are available in Wall Type "C" only (Concrete Pour.) Retrofit kits are not available for existing Wall Type "D" (Drywall) luminaires.

#### Faceplate

All faceplates are constructed of one piece die cast aluminum and are secured to the housing with two (2) recessed and captive hex head socket screws. Integral spring clips ensure positive grounding. Self-compensating single-piece silicone gasketing completely seals the luminaire and allows for varying wall thicknesses.

#### Louvers

Die cast span the entire length of the faceplate, providing for vandal resistance and glare control. Louver faceplate include diffuse glass behind the louvers to minimize apparent glare from the luminaire.

#### Diffuse Glass

The faceplate includes a 3/16" thick diffuse white opal flat tempered glass lens. The lens is internally sealed and mounted and provides a soft, uniform glow.

#### Ribbed Guard

The 90° die cast louvers span the entire length of the faceplate over a diffuse glass lens. Not available in the 941L and RK-941L.

#### J-Box

The field convertible junction box is die cast aluminum. It is shipped factory-mounted to the back of housing. The box can be easily positioned on the bottom of the luminaire via two (2) phillips head screws. Each J-box includes three (3) threaded openings (one on each side and one on the bottom) that accommodate 3/4" conduit.

#### Thermal Management

Gardco 94 Line LED step and aisle lights include integral thermal control to provide the excellent thermal management so critical to long LED system life.

#### Predicted Lumen Depreciation Data

Ambient Temperature °C	System Current	LED Current	Calculated L <sub>70</sub> hrs <sup>1,2</sup>	L <sub>70</sub> per TM21 <sup>2,3</sup>	Lumen Maintenance @ 60,000hrs
25 °C	530 mA	132.5 mA	>100,000	>60,000	84%

1. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
2. L<sub>70</sub> is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM 21-11. Published L<sub>70</sub> hours limited to 6 times actual LED test hours.

### Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.



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941L 942L 943L 03/23 page 3 of 3

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[www.gardcolighting.com](http://www.gardcolighting.com)



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
942L C HSG/HWK ASSY

Notes:

**Type:**  
**E81**

MID23-74318



**Landscape**

**94 Line Series**

941L, 942L, & 943L

941L



942L



943L



The Gardco LED step and aisle lights 941L, 942L & 943L are architecturally styled luminaires precisely constructed of die cast aluminum, providing light with high performance, long life LED systems. Retrofit kits are also available, making it possible to update installations of classic 941, 942 and 943 Gardco fluorescent and HID step lights to LED without the need to replace the back housing. A field adjustable junction box enhances design flexibility. Self-compensating silicone gasketing completely excludes moisture, insects and contaminants. A choice of three (3) architecturally designed faceplates allows for a variety of applications. The ribbed guard faceplate offers vandal protection for glass lenses.

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

Complete luminaire consists of a luminaire & back-box (each must be purchased separately)

**Ordering guide**

example: 941L-21L-CW-D-LV-120-F-BZ

Prefix	Wattage	Color Temp Generation	Wall Type	Faceplates	Voltage	Options	Finish
<u>Complete Luminaires</u>							
941L Horizontal <sup>1</sup>	21L 21W, integral lens array (350mA)	CW Cool White 5700K, 70CRI	D Drywall <sup>1</sup>	LV Louver	120 120V <sup>4</sup>	F Fusing (provide specific input voltage)	BZ Textured bronze
942L Horizontal			Not suitable for concrete pour applications. Also, if insulating material is present, it must be kept at least 3" away from luminaire. Type D units are thermally protected. Non-IC luminaire.	DG1 Diffuse Glass	277 277V <sup>4</sup>		WH Textured white
943L Vertical	31L 31W, integral lens array (530mA)	NW Neutral White 4000K, 70CRI	C Concrete Pour <sup>1</sup>	RGD Ribbed Guard with Diffuse Glass <sup>1</sup>	UNV 120-277V <sup>5</sup> 50hz/60hz	TP Tamper Resistant Screws	BK Textured black
<u>Retrofit Kits<sup>1</sup></u>			Suitable for concrete pour applications only.				DGY Dark grey
RK-941L Horizontal <sup>1,2</sup>		WW Warm white 3000K, 70CRI					OC Optional color (specify the RAL designation) ex: OC-RAL7024
RK-942L Horizontal <sup>2</sup>							SC Special color paint (must supply color chip to specify)
RK-943L Vertical							

- 941L and RK-941L are not available with the RGD faceplate.
- Retrofit kits are available in Wall Type "C" only (Concrete Pour.) Retrofit kits are not available for existing Wall Type "D" (Drywall) luminaires.
- 941L is not available in 40LA (700mA) LED wattage. Lumen values shown are based on Bronze painted faceplates. Values will vary based on the faceplate color.
- Wall Type D luminaires only.
- UNV means 120V through 277V input
- Back box (order separately, field installed)

Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

Back box (order separately, field installed)

**COORDINATE INSTALL IN SEATING BOWL**

- 941L D HSG/HWK ASSY Back box for 941L drywall application
- 941L C HSG/HWK ASSY Back box for 941L concrete application
- 942L D HSG/HWK ASSY Back box for 942L drywall application
- 942L C HSG/HWK ASSY Back box for 942L concrete application
- 943L D HSG/HWK ASSY Back box for 943L drywall application
- 943L C HSG/HWK ASSY Back box for 943L concrete application





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LSC-S-L40SO-4-C8-P1/S(X)-UNV-STD  
Notes: ADVISE WOOD FINISH

**Type:**  
**E104**

MID23-74318

**PROVIDE STRUCTURA LINEAL WIDE FIXTURE ON STRUCTURA AS SPECIFIED. REFER TO SPECIFICATIONS FOR POLE.**

# Lineal Sconce LED Wall Sconce



FIXTURE TYPE: \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_



High performance aluminum wall sconce with integral driver, accent panel, and configuration options.

**FEATURES:**

- Slender 4" wide x 3" deep body profile
- Available with wood, aluminum accent panel
- Multiple distribution options
- Mounting for a variety of junction boxes

**SPECIFICATIONS:**

**CONSTRUCTION:** Seamless aluminum housing comprised of 6005A-T61 extrusion and 6061-T6 end plates. Secures to junction boxes using an aluminum adapter plate and steel mounting bracket. Gasketed handhole behind accent panel for driver access.

**ELECTRICAL:** Powered by a Class P 120-277VAC primary integral power supply behind gasketed handhole cover behind accent panel. System is 0-10V dimmable. Minimum -40°C operating temperature.

**OPTICAL SYSTEM:** LED boards have solderless connections for field upgradability. Available in 2700K, 3000K, 3500k and 4000K color temperatures with >90 CRI. Optics are UV resistant molded PMMA in Type II and V distributions. Consult factory for additional lumen output, CCT, and optical distribution options.

**FINISHES AND MATERIALS:** Wood pieces are finished with a low VOC waterborne matte exterior finish containing UV and mildew inhibitors. All exterior aluminum parts are polyester powder coat painted to AAMA-2604 standards. [Care and Maintenance](#)



**HARDWARE:** All luminaire hardware is stainless steel.

**LISTINGS & RATINGS:** Luminaire CSA listed according to CSA C22.2 No. 250.0-18/UL Standard 1598. Suitable for wet locations. LM-80 test reported L70 > 60,500 hours and calculated L70 > 154,000 hours.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LSC-S-L40SO-4-C8-P1/S(X)-UNV-STD

Notes: ADVISE WOOD FINISH

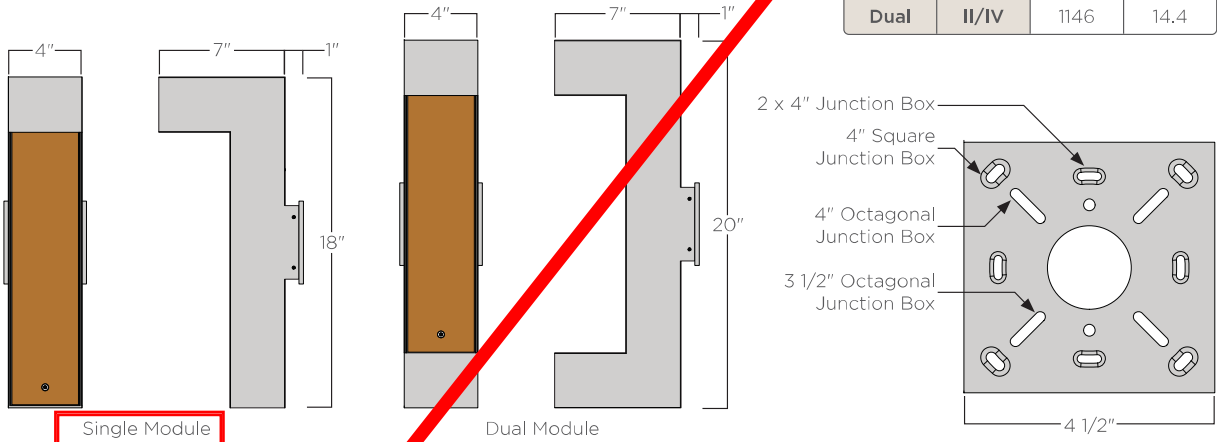
**Type:**  
**E104**

MID23-74318

**PROVIDE STRUCTURA LINEAL WIDE FIXTURE ON STRUCTURA AS SPECIFIED. REFER TO SPECIFICATIONS FOR POLE.**

STRUCTURA

Module	Type	Standard Output	
		Lumens <sup>(1)</sup>	Watts
Single	II	554	8.4
Single	IV	547	8.4
Dual	II	1131	14.4
Dual	IV	1133	14.4
Dual	II/IV	1146	14.4



**ORDERING GUIDE:** EXAMPLE LSC-D-L2750-2/4-C6-P1/S2-UNV-STD



LSC			SO				UNV	
1	2	3	4	5	6	7	8	9

1	<b>Series</b>	LSC	Lineal Sconce	4	<b>Light Source<sup>(2)</sup></b>	SO	Standard Output	7	<b>Panel Material</b>	P1/S* P2/C*	Wood (specify color) <sup>(4)</sup> Aluminum (specify color) <sup>(4)</sup> <div style="border: 1px solid red; padding: 2px; float: right;"><b>ADVISE</b></div>
2	<b>Module</b>	S D	Single Dual	5	<b>Distribution<sup>(3)</sup></b>	2 4 2/4	Type II Type IV Top Type II/Bottom IV	8	<b>Voltage</b>	UNV	120-277V
3	<b>Light Color</b>	L27 L30 L35 L40 AMB	2700K 3000K 3500K 4000K Amber	6	<b>Metal Finish</b>	C*	See color options on finishes technical sheet Custom Color	9	<b>Options</b>	STD MOD	Standard Modified

1. Lumen output based upon 3000K color temperature.  
2. Consult factory for other output options.  
3. BUC rating of B0-U1-G1 for Type 2 and 2/4, BUC rating of B0-U1-G0 for Type 4.  
4. See color options on finishes technical sheet.

Product specification sheets subject to change.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LSC-S-L40SO-4-C8-P1/S(X)-UNV-STD

Notes: ADVISE WOOD FINISH

**Type:**

**E104**

MID23-74318

**PROVIDE STRUCTURA LINEAL WIDE FIXTURE ON STRUCTURA AS SPECIFIED. REFER TO SPECIFICATIONS FOR POLE.**

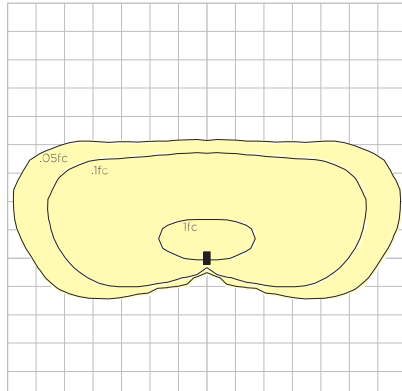
**Lineal Sconce** LED Wall Sconce

**STRUCTURA**

FIXTURE TYPE: \_\_\_\_\_

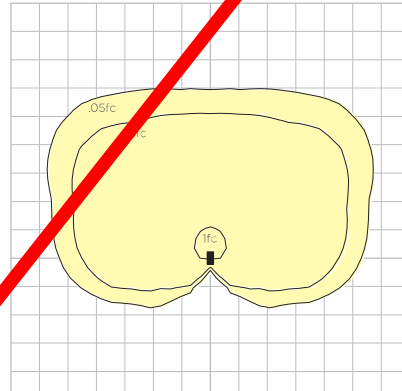
PROJECT NAME: \_\_\_\_\_

Single Type II Distribution [5']



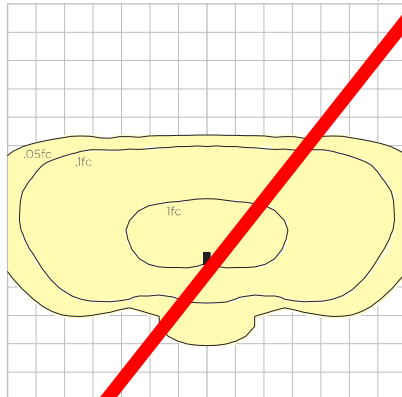
LSC-S-L27SO-2-C(X)-PI/S(X)-UNV-STD mounted at 10'

Single Type IV Distribution [5']



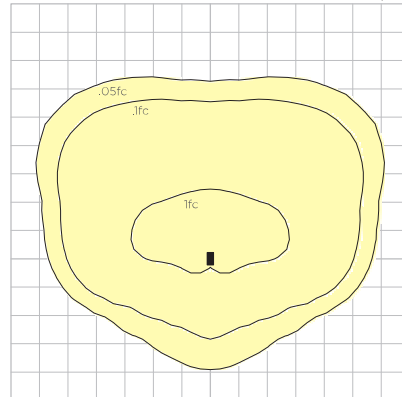
LSC-S-L27SO-4-C(X)-PI/S(X)-UNV-STD mounted at 10'

Dual Type II Distribution [5']



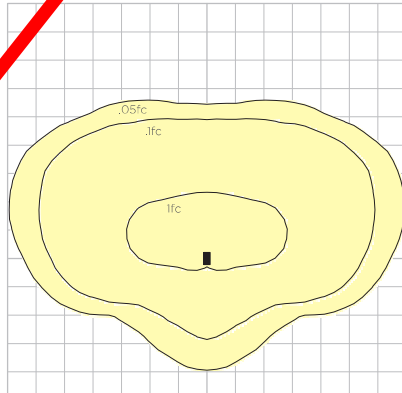
LSC-D-L27SO-2-C(X)-PI/S(X)-UNV-STD mounted at 10'

Dual Type IV Distribution [5']



LSC-D-L27SO-4-C(X)-PI/S(X)-UNV-STD mounted at 10'

Dual Type II/IV Distribution [5']



LSC-D-L27SO-2/4-C(X)-PI/S(X)-UNV-STD mounted at 10'

[IES file download](#)



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LSC-S-L40SO-4-C8-P1/S(X)-UNV-  
STD  
Notes: ADVISE WOOD FINISH

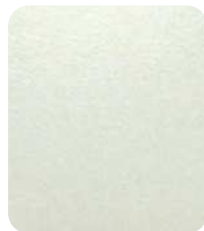
**Type:**  
**E104**

MID23-74318

**PROVIDE STRUCTURA LINEAL WIDE FIXTURE ON STRUCTURA AS SPECIFIED. REFER TO SPECIFICATIONS FOR POLE.**

## metal finishes

# STRUCTURA



C1 - Bone White



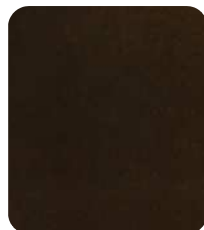
C3 - Grey



C4 - Speckled  
Silver



C5 - Textured Slate



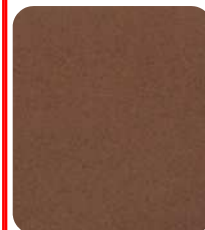
C6 - Bronze



C7 - Jet Black



C8 - Textured  
Black



C9 - Textured Rust



C10 - Textured  
Silver

All colors are polyester powder coat paint. Custom color or RAL color available by request that meet the AAMA 2604 standard for 5-year Florida exposure. Galvanized steel poles are subject to surface imperfections due to the galvanizing process that can be present after painting.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LSC-S-L40SO-4-C8-P1/S(X)-UNV-STD  
Notes: ADVISE WOOD FINISH

**Type:**  
**E104**

MID23-74318

**PROVIDE STRUCTURA LINEAL WIDE FIXTURE ON STRUCTURA AS SPECIFIED. REFER TO SPECIFICATIONS FOR POLE.**

## wood finishes



### ACCOYA FINISHES

**ADVISE**



S1 - Garapa



S2 - Teak



S3 - Kauru



S4 - Ipe



S5 - Jarrah



S6 - Mahogany



S7 - Ebony



S8 - Weathered Grey

All colors are shown on Accoya® wood. Finishes are a four-step application of stain and clear matte top coat. UV inhibitors and mildewcides are included providing superior longevity.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SVPG-A01-840-5RD-SUR-UNV-MG

**Type:**  
**E115**

Notes:

MID23-74318



**Garage & Canopy**

**SoftView**

SVPG with comfort optics



Gardco SoftView LED parking garage luminaires feature edge lit technology, providing visual comfort with minimal glare to enhance the user experience. An added uplight feature reduces the cave effect for an increased sense of security. SoftView features multiple optical distributions, lumen packages and mounting options providing you with the ideal solution for your garage lighting and low bay needs. Optional emergency battery backup available for path of egress lighting and is integral to the luminaire.

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lumens: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

**Ordering guide**

example: SVPG-A06-840-5RD-SUR-UNV-BLBT-L3-SP2-MG

Luminaire	Configuration (nom. lumens)	Color Temp	Distribution	Mounting	Voltage	Options					
						Dimming Controls <sup>3,4</sup>	Sensing <sup>5</sup>	Electrical	Emergency <sup>10</sup>	Finish	
<b>SVPG</b>											
SVPG SoftView Parking Garage	A01 <sup>10</sup> 2,400 A02 <sup>10</sup> 4,100 A03 <sup>10</sup> 6,000 A04 <sup>10</sup> 8,000 A05 9,500 A06 <sup>10</sup> 6,500 A07 <sup>10</sup> 8,200 A08 <sup>1</sup> 10,000 A09 <sup>13</sup> 11,400 A10 <sup>13</sup> 13,400 A11 <sup>13</sup> 14,800	830 80CRI 3000K  840 80CRI 4000K  750 <sup>12</sup> 70CRI 5000K	T1R Type 1 Rectangular T3A <sup>1</sup> Type 3 Asymmetric 5RD Type 5 Round 5CD Type 5 Concentrated Downlight	SUR Surface Mount / indirect pendant Mount. Normal vibration rated (pendant and junction box by others) SBO Surface Mount, Bridge / Overpass vibration rated PEN Direct Pendant Mount, Bridge / Overpass vibration rated (pendant and junction box by others) TRN <sup>2</sup> Trunnion Mount (must also order separate line item TM mounting kit, see Accessories) WAL Wall Mount (must also order separate line item WM mounting kit, see Accessories)	120 120V 208 208V 240 240V 277 277V 347 <sup>13</sup> 347V 480 <sup>13</sup> 480V  UNV Universal 120-277V HVV <sup>13</sup> Universal 347-480V	none leave blank (0-10V dimming driver standard)  BL20 <sup>3,4,5,10,13</sup> Bi-level set at 20% dimming  BLBT <sup>3,4,5,10,13</sup> Bi-level with motion sensor, Bluetooth programming, set at 20% dimming  DLEA <sup>2,3,4,5,10</sup> Dimming Leads Externally Accessible (controls by others)	none leave blank  MW <sup>5,7,13</sup> Microwave Sensor  L2 <sup>5</sup> PIR Sensor, #2 lens L3 <sup>5</sup> PIR Sensor, #3 lens L7 <sup>5</sup> PIR Sensor, #7 lens  (All sensing is factory customizable, contact factory <sup>11</sup> )	Fusing <sup>9</sup>  FS1 <sup>9</sup> Single Fuse (120V, 277V, or 347V) FS2 <sup>9</sup> Double Fuse (208V, 240V, or 480V) FS3 <sup>9</sup> Double Fuse Canadian double pole (208V, 240V, or 480V)  Surge Protection blank SP1 Surge Protector 10kV / 10KA (standard) SP2 Surge Protector 20kV / 10KA (option)	none leave blank EM <sup>2,8,10</sup> Emergency Battery Pack (0°C to +40°C / 32°F to +104°F) EC <sup>8,10</sup> Emergency Battery Pack, Cold Rated (-20°C to +40°C / -4°F to +104°F)	BZ Bronze MC Medium Grey WH White OC <sup>11</sup> Optional Color (specify optional color or RAL, contact factory) SC <sup>11</sup> Special Color (must supply color chip, requires factory quote)	

**DRIVE DOWN TO 1,000 LUMENS**

**BLACK FINISH**

- T3A not available with A06, A07, A08, A09, A10 or A11 configurations due to thermal and fit restrictions.
- TRN not available with combination of both DLEA and EM options due to fit restrictions; TRN is available with each individually (either DLEA or EM).
- Choose only 1 Dimming Controls option: either BL20 or BLBT or DLEA.
- 0-10V dimming driver standard.
- BL20 must be combined with MW Microwave Sensor. BLBT must be combined with Sensing option L2, L3 or L7. Choose only 1: either BL20-MW or BLBT-L#.
- DLEA luminaire has 0-10V dimming wires exiting the luminaire for dimming controls by others.
- MW available with 120V, 208V, 240V, 277V, UNV or 347V only.
- Available with 120V, 208V, 240V, 277V or UNV only.
- Must specify applicable specific input voltage, not available with UNV or HVU.
- Choose either Emergency option EM or EC cold. EM only available with A01, A02, A03 or A06 and EC cold only available with A01, A02, A03, A04, A06 or A07 due to thermal restrictions. EC cold not available with DLEA or BL20-MW or BLBT-L# due to fit restrictions; EM is available with DLEA or BL20-MW or BLBT-L# (does fit).
- Must contact factory prior to ordering - these items are ETO Specials.
- Extended lead times apply. Contact factory for details.
- A09, A10, A11 each have 2 drivers therefore due to fit restrictions not available with 347V, 480V, HVU, BL20-MW, or BLBT.

**Accessories\* (ordered separately, field installed)**

<b>ES</b> External House Side Shield (designed for use with Type 3, reduces light output by approx. 15% on average)	<b>SVPG-G2-TM-(F)</b> Trunnion Mount kit (can ONLY use when TRN Trunnion Mount product is ordered)	<b>BXC</b> Bird excluding coil (fits on all mounting options) (negligible uplight impact)
<b>WG</b> Wire Guard	<b>SVPG-G2-WM-(F)</b> Wall Mount kit (can ONLY use when WAL Wall Mount product is ordered)	<b>BXK</b> Bird excluding spikes (fits on Pendant, Trunnion, and Wall mounts only) (negligible uplight impact)
		<b>BXS</b> Bird excluding shroud (fits on Pendant mount only) (negligible uplight impact)

\* Consult Signify to confirm whether specific accessories are BAA-compliant. (F) = specify finish





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SVPG-A01-840-5RD-SUR-UNV-MG

Notes:

**Type:**  
**E115**

MID23-74318

# SoftView

## Garage & canopy luminaire

### Controls Matrix

Dimming Controls & Sensing (where applicable)	Fusing: FS1, FS2, or FS3	Surge Protection: standard SP1 or optional SP2	Emergency: none or EM <sup>2:10</sup>	Emergency: or EC <sup>10</sup>
<b>Only choose one of the six <sup>3, 5</sup></b>				
none	yes	yes	yes	yes
BL20 <sup>10</sup> -MW	yes	yes	yes	no
BLBT <sup>10</sup> -L2	yes	yes	yes	no
BLBT <sup>10</sup> -L3	yes	yes	yes	no
BLBT <sup>10</sup> -L7	yes	yes	yes	no
DLEA <sup>2:10</sup>	yes	yes	yes - except DLEA + EM NOT available with TRN <sup>2</sup> Trunnion	no

Compatible = "yes", NOT compatible = "no". Applicable footnote superscripts included to help cross-reference to Ordering guide.

### Compatibility Matrix

Configuration	Distribution		Dimming Controls & Sensing (where appl.)		Emergency	
	T1R or 5RD or 5CD	T3A <sup>1</sup>	none or DLEA	BL20 <sup>13</sup> -MW or BLBT <sup>13</sup> -L#	EM <sup>10</sup>	EC <sup>10</sup>
A01 <sup>10</sup>	yes	yes	yes	yes	yes	yes
A02 <sup>10</sup>	yes	yes	yes	yes	yes	yes
A03 <sup>10</sup>	yes	yes	yes	yes	yes	yes
A04 <sup>10</sup>	yes	yes	yes	yes	no	yes
A05	yes	yes	yes	yes	no	no
A06 <sup>1:10</sup>	yes	no	yes	yes	yes	yes
A07 <sup>1:10</sup>	yes	no	yes	yes	no	yes
A08 <sup>1</sup>	yes	no	yes	yes	no	no
A09 <sup>1:13</sup>	yes	no	yes	no	no	no
A10 <sup>1:13</sup>	yes	no	yes	no	no	no
A11 <sup>1:13</sup>	yes	no	yes	no	no	no



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SVPG-A01-840-5RD-SUR-UNV-MG

Notes:

**Type:**

**E115**

MID23-74318

# SoftView

## Garage & canopy luminaire

### LED wattage and lumen values

Ordering Code	Color Temperature	Average System Watts (W)	T1R			T3A			5RD			5CD		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
SVPG-A01-830	3000	21	1,884	B1-U3-G1	90	2,200	B1-U3-G1	105	2,227	B2-U2-G1	106	2,345	B1-U0-G1	112
SVPG-A02-830	3000	36	3,267	B2-U3-G2	91	3,816	B2-U3-G2	106	3,862	B2-U3-G1	107	4,068	B2-U0-G1	113
SVPG-A03-830	3000	52	4,716	B2-U3-G2	91	5,507	B2-U3-G2	106	5,574	B3-U3-G2	107	5,870	B3-U0-G2	113
SVPG-A04-830	3000	72	6,345	B3-U3-G3	88	7,409	B3-U3-G3	103	7,500	B3-U3-G2	104	7,899	B3-U0-G2	110
SVPG-A05-830	3000	90	7,596	B3-U3-G3	84	8,870	B3-U3-G3	99	8,979	B3-U3-G2	100	9,456	B3-U0-G2	105
SVPG-A06-830	3000	51	5,018	B3-U3-G3	98	-	-	-	5,575	B3-U3-G2	109	6,021	B3-U0-G2	117
SVPG-A07-830	3000	71	6,933	B3-U3-G3	98	-	-	-	7,704	B3-U3-G2	108	8,320	B3-U0-G2	117
SVPG-A08-830	3000	90	8,544	B3-U3-G3	95	-	-	-	9,493	B3-U3-G2	106	10,253	B3-U0-G2	114
SVPG-A09-830	3000	107	9,987	B3-U3-G3	94	-	-	-	11,097	B3-U3-G2	104	11,985	B3-U0-G2	113
SVPG-A10-830	3000	132	11,636	B3-U4-G3	88	-	-	-	12,929	B4-U3-G3	98	13,964	B3-U0-G3	106
SVPG-A11-830	3000	149	12,955	B3-U4-G3	87	-	-	-	14,395	B4-U3-G3	96	15,546	B4-U0-G3	104
SVPG-A01-840	4000	21	2,026	B1-U3-G1	97	2,366	B1-U3-G1	113	2,395	B2-U2-G1	114	2,522	B1-U0-G1	120
SVPG-A02-840	4000	36	3,513	B2-U3-G2	98	4,103	B2-U3-G2	114	4,153	B2-U3-G1	115	4,374	B2-U0-G1	122
SVPG-A03-840	4000	52	5,071	B2-U3-G2	98	5,921	B2-U3-G2	114	5,994	B3-U3-G2	115	6,312	B3-U0-G2	121
SVPG-A04-840	4000	72	6,823	B3-U3-G3	95	7,967	B3-U3-G3	111	8,065	B3-U3-G2	112	8,494	B3-U0-G2	118
SVPG-A05-840	4000	90	8,168	B3-U3-G3	91	9,538	B3-U3-G3	106	9,655	B3-U3-G2	107	10,168	B3-U0-G2	113
SVPG-A06-840	4000	51	5,396	B3-U3-G3	105	-	-	-	5,995	B3-U3-G2	117	6,475	B3-U0-G2	126
SVPG-A07-840	4000	71	7,455	B3-U3-G3	105	-	-	-	8,284	B3-U3-G2	116	8,946	B3-U0-G2	126
SVPG-A08-840	4000	90	9,187	B3-U3-G3	102	-	-	-	10,208	B3-U3-G2	114	11,025	B3-U0-G2	123
SVPG-A09-840	4000	107	10,739	B3-U3-G3	101	-	-	-	11,933	B3-U3-G2	112	12,887	B3-U0-G2	121
SVPG-A10-840	4000	132	12,512	B3-U4-G3	95	-	-	-	13,903	B4-U3-G3	105	15,015	B3-U0-G3	114
SVPG-A11-840	4000	149	13,930	B3-U4-G3	93	-	-	-	15,478	B4-U3-G3	104	16,716	B4-U0-G3	112
SVPG-A01-750	5000	21	2,188	B1-U3-G1	104	2,555	B1-U3-G1	122	2,587	B2-U2-G1	123	2,724	B1-U0-G1	130
SVPG-A02-750	5000	36	3,794	B2-U3-G2	105	4,431	B2-U3-G2	123	4,485	B2-U3-G1	125	4,724	B2-U0-G1	131
SVPG-A03-750	5000	52	5,477	B2-U3-G2	105	6,395	B2-U3-G2	123	6,474	B3-U3-G2	125	6,817	B3-U0-G2	131
SVPG-A04-750	5000	72	7,369	B3-U3-G3	102	8,604	B3-U3-G3	120	8,710	B3-U3-G2	121	9,174	B3-U0-G2	127
SVPG-A05-750	5000	90	8,821	B3-U3-G3	98	10,301	B3-U3-G3	115	10,427	B3-U3-G2	116	10,981	B3-U0-G2	122
SVPG-A06-750	5000	51	5,828	B3-U3-G3	112	-	-	-	6,475	B3-U3-G2	125	6,993	B3-U0-G2	135
SVPG-A07-750	5000	71	8,051	B3-U3-G3	112	-	-	-	8,946	B3-U3-G2	125	9,662	B3-U0-G2	135
SVPG-A08-750	5000	90	9,922	B3-U3-G3	110	-	-	-	11,025	B3-U3-G2	122	11,907	B3-U0-G2	131
SVPG-A09-750	5000	107	11,598	B3-U3-G3	108	-	-	-	12,887	B3-U3-G2	120	13,918	B3-U0-G2	129
SVPG-A10-750	5000	132	13,513	B3-U4-G3	101	-	-	-	15,015	B4-U3-G3	112	16,216	B3-U0-G3	121
SVPG-A11-750	5000	149	15,044	B3-U4-G3	100	-	-	-	16,716	B4-U3-G3	111	18,054	B4-U0-G3	120

### Emergency mode

Ordering Code	Approximate average lumen output*
SVPG-A01 or A02 or A03, EM	2,400
SVPG-A01 or A02 or A03 or A04, EC cold rated	2,900
SVPG-A06, EM	2,600
SVPG-A06 or A07, EC cold rated	3,200

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

**NOTE:** Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

\* For emergency **EM** and **EC** options, published values are based on approximate averages across all CCTs and all distributions assuming 15 foot mounting height. It is highly recommended to confirm with a photometric layout that emergency performance meets your applicable ordinances.



**Job Name:**  
 DUTCHESS STADIUM  
 Distributor: LS FIELDTECH, LLC.  
 (ROCHESTER)

**Catalog Number:**  
 SVPG-A01-840-5RD-SUR-UNV-MG

Notes:

**Type:**  
**E115**

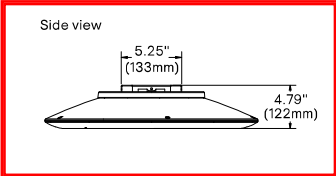
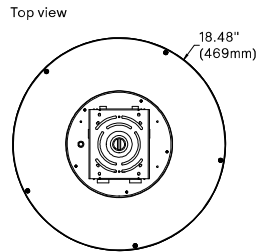
MID23-74318

# SoftView

## Garage & canopy luminaire

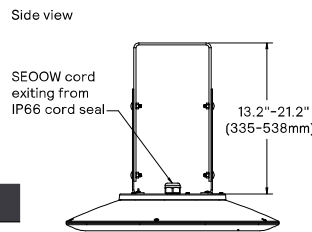
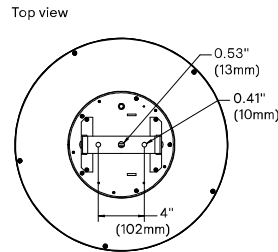
### Dimension drawings

**Surface** Indirect Pendant mount

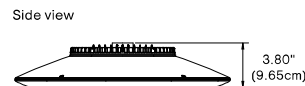
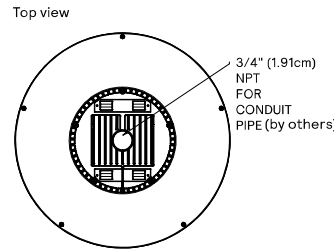


SoftView LED	Weight
A01-A05 Luminaire	9.1 lbs (4.1 Kg)
A06-A11 Luminaire	10.3 lbs (4.7 Kg)
Luminaire with EM	11.6 lbs (5.3 Kg)
Luminaire with EC	15.1 lbs (6.8 Kg)

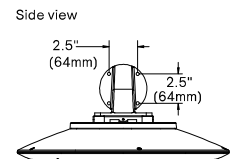
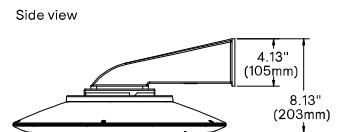
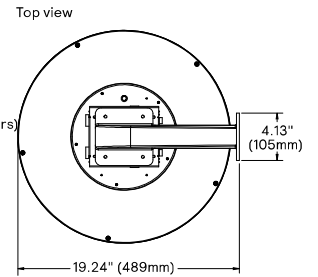
Trunnion mount



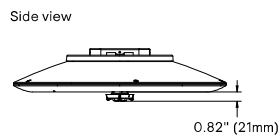
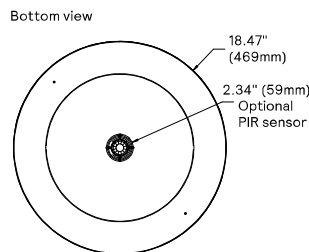
Direct Pendant mount



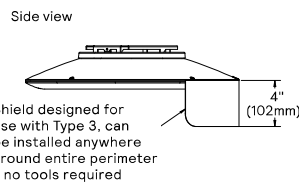
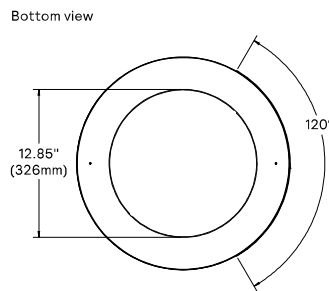
Wall mount



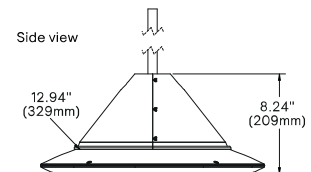
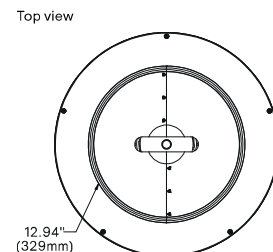
### Motion response controls



### External house side shield



### BXS Bird excluding shroud





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SVPG-A01-840-5RD-SUR-UNV-MG

**Type:**  
**E115**

Notes:

MID23-74318

# SoftView

## Garage & canopy luminaire

### Specifications

#### Construction

Lower housing made of low copper die cast Aluminum alloy for high resistance to corrosion. Upper polycarbonate lens provides upright, tapered shape of upper housing deters dirt accumulation, eases cleaning frequency, and deters birds from sitting or nesting. UV-resistant acrylic lower lens.

#### IP Rating

IP66 rated luminaire with seal around entire perimeter of the lens. All electrical components within entire perimeter of lens, also within IP66 seal. Includes breather element that equalizes pressure between luminaire interior and exterior environment and maintains it over time to prevent water entry and premature gasket failure.

#### IK Rating

IK10 high impact resistance rating for both the upper lens and the lower lens.

#### LED Thermal management

The luminaire design provides excellent thermal management critical to long LED, driver and system life. Natural convection air flow, product does not use any cooling device with moving parts (only passive cooling).

#### Light engine

Composed of mid power LEDs, uniformly spaced around entire perimeter of lens (symmetric distributions). Color temperatures per ANSI/NEMA bin Warm White 3000K nominal (3045 +/-175K) 80CRI, Neutral White 4000K nominal (3985 +/- 275K) 80CRI, or Cool White 5000K nominal (5029 +/- 283K) 70CRI (80CRI available - must contact factory prior to ordering, this is an ETO Special). LEDs tested by ISO 17025 accredited lab in accordance with IESNA LM-80 guidelines, extrapolations in accordance with IESNA TM-21.

#### Optical system

Light guide plate composed of high performance optical grade PMMA (polymethyl methacrylate) acrylic. Edge-lit light guide technology allows for optimal light distribution without direct view of the LEDs, providing low-glare, uniform horizontal and vertical illumination with optimum visual comfort. Type 1R Rectangular, Type 3 Asymmetric, Type 5 Symmetrical and Concentrated Downlight (5CD) distributions available, designed for compliance to IES RP-8. Consider Type 1R for one luminaire per bay applications, ramps, and drive lanes leading up to or exiting parking stall decks; Type 3 for wall mount applications and perimeter mounted luminaires to throw light into parking garage away from property line (LEED compliance, property cut-off, avoid light trespass); Type 5 for general use in parking bays; Concentrated Downlight and/or higher lumen configurations when enhanced lighting is required for entries and exits, ramps, payment areas, lobbies and waiting areas, etc. and for security lighting per IES G-1. Uplight (up to 3%) provided with Type 1R, Type 3 and Type 5 to eliminate cave effect; for these distributions almost no uplight (<1%) available - must contact factory prior to ordering, this is an ETO Special. Almost no uplight (<1%) provided standard with Type 5CD. More uplight available - must contact factory prior to ordering, this is an ETO Special. Performance tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance.

#### Electrical

Constant current electronic driver. High power factor (0.9 minimum). 50/60 Hz. Low THD (20% maximum). Open/short circuit protection and voltage overload protection, automatic recovery after correction. Driver comes standard with 6KV on-board surge protection. Dimming driver standard. 0-10V dimming to minimum 10% power. RoHS compliant. Driver enables setting LED drive current to meet your specific total wattage consumption, lumen output and/or efficacy needs - ETO Specials, contact factory.

Surge protector standard and tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10KV/10KA waveforms for Line-Ground, Line-Neutral and Neutral-Ground. Optional enhanced surge protector 20KV/10KA also available. Surge protector wired in parallel so that if it fails open the luminaire will remain lit/powerd on. When Emergency options **EM** or **EC** are chosen, two surge protectors provided for complete protection - one for unswitched hot line, one for switched hot line.

Due to the inrush current that occurs with electronic drivers, recommend using a time delay or slow blow fuse to avoid unnecessary and unwanted fuse blowing that can occur with fast acting fuses.

#### Mounting

**SUR:** Surface mount for Normal vibration rating. Stamped anodized aluminum upper housing with a die formed 16 ga. galvanized steel EZ-hang plate supplied for mounting to a recessed or surface-mounted 4" (10.16 cm) junction box (by others) - flush ceiling mount to a recessed junction box, or direct mount to a surface-mounted junction box. Integral hanger tabs on the plate support the luminaire during wiring. Single screw secures luminaire for quick and easy installation. Includes minimum 12" (30.48cm) wires that pass through IP66 rated grommet which seals around the wires. For indirect pendant mounting with Normal vibration rating, order Surface Mount (SUR) and mount to a wet location junction box (by others) which you then direct mount onto rigid pendant (by others).

**SBO:** Surface mount for higher Bridge / Overpass vibration rating. Die-cast aluminum upper housing with a supplied die formed 16 ga. galvanized steel EZ-hang plate with integral strengthening feet. Plate supplied for mounting to junction box (by others), integral hanger tabs on plate support luminaire during wiring. Single screw secures luminaire for quick and easy installation. Includes minimum 12" (30.48 cm) wires that pass through IP66 rated grommet which seals around the wires.

**PEN:** Direct pendant mount for higher Bridge / Overpass vibration rating. Die-cast aluminum upper housing includes integral 3/4" NPT tapped hole for direct mounting onto rigid 3/4" pendant (by others). Includes minimum 38" (96.52 cm) wires that pass through IP66 rated grommet which seals around the wires.

**TRN:** Mounts to a concrete ceiling with an anodized aluminum trunnion bracket assembly (order separate line item accessory, painted to match luminaire finish). Includes minimum 36" (91.44 cm) SEOW cord exiting luminaire through IP66 cord seal. The assembly permits (8) one inch (2.54 cm) incremental mounting height adjustments, ranging from 13 to 21 inches (33.02 to 53.34 cm).

**WAL:** Anchors directly on a wall with wall bracket assembly (order separate line item accessory, painted to match luminaire finish), includes minimum 12" (30.48cm) wires that pass through IP66 rated grommet which seals around the wires.

#### Control Options

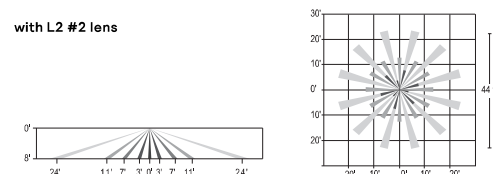
Please note that other controls including wireless can be integrated as ETO Specials - contact factory.

**DLEA:** 0-10V dimming driver with dimming wires externally accessible for connecting dimming controls by others.

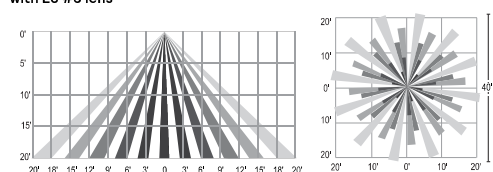
**BLBT:** Motion Response luminaires include a WattStopper passive infrared (PIR) motion sensor, standby power is 0.5 watts. Factory pre-programmed standard settings include a dimming level down to 20% and time delay of 10 minutes with no stand-by period. This means when no motion is detected for 10 minutes the sensor will dim the luminaire down to 20% of total lumen output. When motion is detected the luminaire returns to 100% full light output and will remain on full power for 10 minutes default prior to dimming back to low when no motion is detected. Other dimming levels, holding times and stand-by periods are possible by re-programming in the field via Bluetooth® using the WattStopper sensor configuration mobile app (available in iOS® or Android™); programming is also factory customizable - ETO Specials, contact factory.

Motion Response includes light sensor feature called **Photocell On/Off** which is disabled by default. This feature can be enabled in the field using the same WattStopper sensor configuration mobile app - this allows for daylight harvesting (California Title 24 compliant). Motion sensor also includes reading/measuring feature called **Sensor Level** that can be used to establish a baseline for daylight harvesting. See WattStopper sensor configuration mobile app User Guide for details (contact WattStopper for programming help as required).

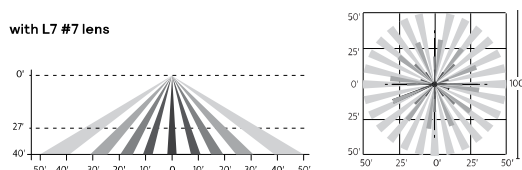
with L2 #2 lens



with L3 #3 lens



with L7 #7 lens







**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SVPG-A01-840-5RD-SUR-UNV-MG

**Type:**  
**E115**

Notes:

MID23-74318

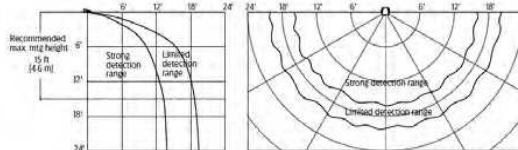
# SVPG SoftView

## Garage & canopy luminaire

### Specifications

#### Sensing Option

**MW:** Motion response luminaires include a high frequency microwave sensor, 5.8GHz+/- 75MHz microwave ISM continuous wave band with 360° coverage area, <0.5 mW transmitting power and <1 W standby power. Microwave motion sensor designed to detect motion through the lower lens so it is hidden inside the luminaire without any protruding components. Sensor allows energy savings and meeting code requirements without compromising comfort and aesthetics. Factory pre-programmed standard settings include a dimming level down to 20% and time delay of 3 minutes with no stand-by period. This means when no motion is detected for 3 minutes the sensor will dim the luminaire down to 20% of total lumen output. When motion is detected the luminaire returns to 100% full light output and will remain on full power for 3 minutes default prior to dimming back to low when no motion is detected. Other dimming levels, holding times and stand-by periods are possible - ETO Specials, contact factory. Microwave sensor's photocell is disabled since the sensor is embedded inside the luminaire (therefore daylight harvesting is not possible).

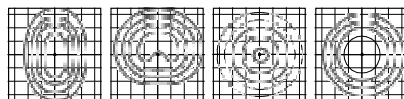


#### Emergency battery backup

Optional internal emergency battery pack immediately detects AC power loss then provides emergency light output for a minimum of 90 minutes when power is lost compliant with UL 924/CSA22.2 No. 141 and NFPA 101 Life Safety Code path of egress requirements. Integral so there is a consistent look between emergency and non-emergency luminaires, separate accessory box is not required. **EM** suitable for use in ambient temperature conditions from 0°C (+32°F) to +40°C (+104°F). **EC** suitable for use in ambient temperatures from -20°C (-4°F) to +40°C (+104°F). **EM** and **EC** are not available for use with **347V**, **480V** or **HVU**. **EM** and **EC** always include surge protection for both the switched and unswitched lines to ensure complete protection.

#### Optical Distributions

Based on 10' mounting height



Type 1R

Type 3

Type 5

Type 5CD

#### Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (**TGIC**) textured polyester powdercoat finish on lower housing. Standard textured finishes include: **BZ** - Bronze Textured, **WH** - White Textured, **MG** - Medium Gray Textured. Consult factory for specs on optional (**OC**) or custom (**SC**) colors. The finish achieves a minimum scribe rating of 7 per ASTM D1654 after a minimum of 1500 hours salt spray in accordance with testing performed per ASTM B117 standard.

#### Hardware and Seals

All exposed screws shall be stainless steel and/or corrosion resistant and captive. All seals and sealing devices are made and/or lined with silicone and/or rubber.

#### LED Products Manufacturing Standard

The electronic components sensitive to electrostatic discharge (ESD) such as LEDs are assembled in compliance with EC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

#### LED Luminaire Useful Life

Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, exclusive Signify System Reliability Tool, Advance

driver data and LED manufacturer LM-80/TM-21 data, expected to reach 100,000 + hours with L70 lumen maintenance @ 25°C. Luminaire Useful Life accounts for LED lumen maintenance AND all of these additional factors including: LED color shift, LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion.

#### Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours

Ambient Temperature °C	Drive current	Calculated L70 Hours	L70 per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 3400 mA (A11)	>100,000 hours	>72,000 hours	>90%

#### Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.



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SoftView\_Gen3\_parking\_garage\_luminaire 01/23 page 6 of 6

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**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
C6PDL25835MZ10UCCW

Notes: ADVISE STEM LENGTH

**Type:**  
**P62**

MID23-74318

# C6 Calculite LED 6" gen 3 Cylinder

## Cylinder

**Cylinder housing:** Cast aluminum, available for installation onto a 3" or 4" junction box, stem, cable, or wall mounted.

**Surface mounting (C6S):** Mounts directly to junction box. Listed for wet location use.

**Pendant mounting (C6P):** Order with the stem or cable kit. Listed for damp location use.

**Wall Mounting (C6W):** Pre-attached hardware allows for simple installation into wall mounted junction box. Listed for damp location use.

## Pendant accessories

**Stem mounting kit:** 0.375" diameter steel stem (1/8" National Pipe Thread, can be field cut to required length. 5-wire conductor cable runs alongside of stem for power and dimming. Magnetic attachment of canopy to junction box provides clean look free of hardware. Self-aligning swivel mounting system ensures cylinder hangs straight down. Stem can be cut in field for length adjustment. A 1/8" hole is required to reconnect the pendant stem to the canopy swivel. Swivel accommodates max 45° pitch.

**Cable mounting kit:** 10' long steel cable with 5-wire cable for power and dimming. Hardware free canopy for clean aesthetics.

## Remote drivers

- Available with surface and pendant mounts only
- Requires new construction or accessibility from above for initial installation
- Mains/control wiring in frame junction box
- Connection to light engine in secondary junction box
- Remote driver is accessible from below upon removal of the cylinder

## Dimming drivers

All configurations are FCC Class A unless otherwise specified.

- Advance 0-10V 1% (Z10), logarithmic curve is standard, specify D20 for factory-set dim-to-off function, consult factory for linear dimming curve.
- EldoLED SOLODrive (SOL) 0-10V 0.1%
- Lutron PEQ0 (L01) Hi-Lume Premier EcoSystem 0.1%
- Lutron LDE1 (L1) EcoSystem 1%
- Lutron LTE (LTE) Hi-Lume 2-wire phase cut 1%
- Electronic low voltage (E) - forward or reverse phase dimming, remodel and AirSeal IC Shallow are FCC Class B
- DALI (D) - DT6 DALI 0.1%
- DMX (DMX) - Digital multiplexing with RDM 0.1%

## Dimming options:

- The following are factory-set for the SOL, D, and DMX driver options (ex. DMXLIN):
- SOL/D/DMX: Logarithmic (-) standard
- SOL/D/DMX: Linear (LIN)
- SOL/DMX: Square (SQR)

## Optical systems

### MesoOptics PET optical diffusion film:

Provides a smooth beam shape and mitigates color over angle with optimized luminaire efficiency.

### Comfort throughout the space:

Patented optical system combines primary and secondary optics to provide a true 50° physical cutoff and 45° reflected cutoff virtually eliminating the view of the light source and bright spots in the reflector. A new reflector curve reduces reflector brightness by up to 50% compared to existing products, allowing for the

use of higher lumen packages in smaller apertures without creating bright spots in the ceiling.

**Quality of light:** 2 SDCM ensures color consistency from fixture to fixture and over the luminaire's long lifetime. Proprietary optical grade silicone lens with patterned surface provides soft, even beam diffusion without hotspots or dark rings.

## ENERGY STAR® exceptions

- 90 CRI configurations
- Champagne Bronze and Black finishes
- EldoLED Solo drivers

## Labels and Listings

- cULus listed for wet locations (surface mount)
- cULus listed for damp locations (wall and pendant mount)
- ENERGY STAR® certified
- RoHS certified

## Warranty

5 year warranty on complete system.



Complete warranty available at:  
[http://images.philips.com/is/content/PhilipsConsumer/PDFDownloads/United%20States/ODL120150930\\_003-UPD-en\\_US-Philips-warranty-indoor-PLS-us.pdf](http://images.philips.com/is/content/PhilipsConsumer/PDFDownloads/United%20States/ODL120150930_003-UPD-en_US-Philips-warranty-indoor-PLS-us.pdf)

## Narrow (0-10V)

Lumen package	Input volts	Input freq	Input current	Drive current	Input power	THD power	Power factor
1000lm	120V	50/60Hz	0.08	230mA	9W	<15%	>0.95
	277V		0.04			<20%	>0.90
1500lm	120V	50/60Hz	0.11	340mA	15W	<10%	>0.95
	277V		0.05			<15%	>0.95
2000lm	120V	50/60Hz	0.16	460mA	22W	<10%	>0.95
	277V		0.08			<15%	>0.95
2500lm	120V	50/60Hz	0.20	590mA	25W	<10%	>0.95
	277V		0.10			<15%	>0.95
3500lm	120V	50/60Hz	0.30	900mA	36W	<10%	>0.95
	277V		0.14			<15%	>0.95
4800lm	120V	50/60Hz	0.42	1250mA	51W	<10%	>0.95
	277V		0.19			<15%	>0.95
6000lm	120V	50/60Hz	0.48	1400mA	57W	<10%	>0.95
	277V		0.21			<15%	>0.95

## Medium/Wide (0-10V)

Lumen package	Input volts	Input freq	Input current	Drive current	Input power	THD power	Power factor
1000lm	120V	50/60Hz	0.08	210mA	9W	<15%	>0.95
	277V		0.04			<20%	>0.95
1500lm	120V	50/60Hz	0.11	320mA	15W	<10%	>0.95
	277V		0.05			<15%	>0.95
2000lm	120V	50/60Hz	0.15	430mA	19W	<10%	>0.95
	277V		0.07			<15%	>0.95
2500lm	120V	50/60Hz	0.19	550mA	23W	<10%	>0.95
	277V		0.09			<15%	>0.95
3500lm	120V	50/60Hz	0.25	570mA	30W	<10%	>0.95
	277V		0.11			<15%	>0.95
4800lm	120V	50/60Hz	0.36	810mA	40W	<10%	>0.95
	277V		0.16			<15%	>0.95
6000lm	120V	50/60Hz	0.50	1130mA	57W	<10%	>0.95
	277V		0.22			<15%	>0.95

## Lifetime (TM-21) data

Lumens	Narrow beam	Medium/Wide beam
1000lm / 1500lm / 2000lm	L90 @ 60,000 hrs.	L90 @ 60,000 hrs.
2500lm / 3500lm / 4800lm / 6000lm	L90 @ 60,000hrs.	L85 @ 60,000hrs.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
C6PDL25835MZ10UCCW

Notes: ADVISE STEM LENGTH

**Type:**

**P62**

MID23-74318

# C6 Calculite LED 6" gen 3 Cylinder

## Wireless Controls Options

### Interact Pro scalable sensor (System Bridge Accessory with -CS option):

- CS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with:
  - SWS200 wireless scene switch
  - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
  - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
  - Battery powered IP65 presence sensor OCC sensor IA CM IP65 WH
  - Battery powered IP65 presence & daylight sensor OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: [www.interact-lighting.com/interactproscalablesystem](http://www.interact-lighting.com/interactproscalablesystem).

### Interact Pro Enterprise (System Bridge Accessory with -SB option):

- A wireless IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1) and wireless Occupancy or Daylight & Occupancy sensors available.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- SB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit: [www.interact-lighting.com/office](http://www.interact-lighting.com/office) or [www.usa.lighting.philips.com/systems/system-areas/offices](http://www.usa.lighting.philips.com/systems/system-areas/offices).

### Emergency Options (ER100) (System Bridge Accessory with -ER100 option):

- Power Sensing (Factory default) - Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) - Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

### Radio only sensor (RA):

- Integral radio (RA) only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.
- Integral RF device affixed to remote recessed driver assembly.

## Polished Reflectors

Shown as round reflectors but represent the finish of Calculite square reflectors.



**Specular clear (CL):** Most specular and most efficient finish, delivers maximum photometric performance but can produce a mirror image effect of the interior space.



**Champagne bronze (CZ):** Semi-specular finish that softens light at the source of the reflector while providing a warmer reflector appearance (slightly warmer).



**White (WH):** (matte) Brightest illuminated aperture and provides the smoothest transition to most ceilings when off (white is only available with a white flange).



**Comfort clear (CC):** Semi-specular finish that softens the light at the source of the reflector and creates a subtle, even luminance from the reflector cone.



**Comfort clear diffuse (CD):** Slightly diffuse clear finish, that eliminates iridescence and reduces the mirror image effect inherent with specular finishes.



**Black (BK):** (anodized) Specular finish that provides the lowest aperture brightness possible and significantly reduces source identification in a ceiling.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
C6PDL25835MZ10UCCW

Notes: ADVISE STEM LENGTH

**Type:**  
**P62**

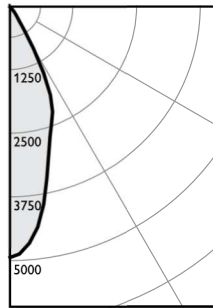
MID23-74318

# C6 Calculite LED 6" gen 3

## Cylinder

### Narrow beam, 2500lm Engine, 103.0 lm/W

Candela Curve



Cylinder: C6SDL25835NZ10UCLW

Output lumens: 2462 lms  
Input watts: 23.9 W  
CRI: 80 min  
CCT: 3500K  
Spacing Crit.: 0.6  
Beam Angle: 40°

Zonal summary

Zone	Lumens	%Luminaire
0-30	2113	85.8%
0-40	2383	96.8%
0-60	2459	99.9%
0-90	2462	100.0%

Angle	Mean CP	Lumens
0	4938	
5	4867	423
10	3948	
15	3027	856
20	2456	
25	1936	834
30	977	
35	352	270
40	205	
45	87	72
50	13	
55	4	4
60	3	
65	2	2
70	1	
75	1	1
80	0	
85	1	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	198	3.0'
6'	137	3.6'
7'	101	4.2'
8'	77	4.8'
9'	61	5.4'

\* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	114.3	1.06
6'	75.0	0.70
7'	53.6	0.50
8'	44.7	0.41
9'	35.7	0.33

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 103.0 lm/w  
Report#: F37145

Adjustment factors

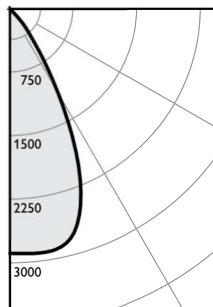
Finish	CCT	Lumens
CL = 100%	80CRI 4000K = 103%	6000lm = 202%
CC = 95%	80CRI 3500K = 100%	4800lm = 192%
CD = 87%	80CRI 3000K = 95%	3500lm = 140%
CZ = 63%	80CRI 2700K = 93%	2500lm = 100%
WH = 87%	90CRI 3000K = 83%	2000lm = 80%
BK = 57%	90CRI 2700K = 78%	1500lm = 60%
		1000lm = 40%

Coefficients of utilization

Room Cavity Ratio	80%	70%	50%	30%	0%
0	119	119	119	119	119
1	114	112	109	107	110
2	109	105	101	98	103
3	105	99	95	91	98
4	100	94	89	85	93
5	96	89	84	80	88
6	92	84	79	75	83
7	88	80	75	71	79
8	85	76	71	67	76
9	81	73	68	64	72
10	78	70	65	61	69

### Medium beam, 2500lm Engine, 115.2 lm/W

Candela Curve



Cylinder: C6SDL25835MZ10UCLW

Output lumens: 2454 lms  
Input watts: 21.3 W  
CRI: 80 min  
CCT: 3500K  
Spacing Crit.: 0.8  
Beam Angle: 55°

Zonal summary

Zone	Lumens	%Luminaire
0-30	1896	77.2%
0-40	2319	94.5%
0-60	2450	99.8%
0-90	2454	100.0%

Angle	Mean CP	Lumens
0	2886	
5	2900	277
10	2903	
15	2809	777
20	2472	
25	1880	842
30	1178	
35	644	423
40	347	
45	153	124
50	23	
55	6	8
60	4	
65	3	3
70	2	
75	1	1
80	1	
85	1	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	115	4.0'
6'	80	4.8'
7'	59	5.6'
8'	45	6.4'
9'	36	7.2'

\* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	112.7	0.94
6'	74.0	0.62
7'	52.8	0.44
8'	44.0	0.37
9'	35.2	0.30

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 115.2 lm/w  
Report#: F37135

Adjustment factors

Finish	CCT	Lumens
CL = 100%	80CRI 4000K = 102%	6000lm = 240%
CC = 95%	80CRI 3500K = 100%	4800lm = 192%
CD = 87%	80CRI 3000K = 97%	3500lm = 140%
CZ = 63%	80CRI 2700K = 87%	2500lm = 100%
WH = 87%	90CRI 3000K = 77%	2000lm = 80%
BK = 57%	90CRI 2700K = 73%	1500lm = 60%
		1000lm = 40%

Coefficients of utilization

Room Cavity Ratio	80%	70%	50%	30%	0%
0	119	119	119	119	119
1	114	111	109	107	109
2	108	104	100	97	102
3	103	97	92	89	96
4	98	91	86	82	90
5	94	86	80	76	85
6	89	81	75	71	80
7	85	76	70	66	76
8	81	72	66	62	71
9	77	68	63	59	68
10	74	65	59	55	64

1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.  
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
C6PDL25835MZ10UCCW

Notes: ADVISE STEM LENGTH

**Type:**  
**P62**

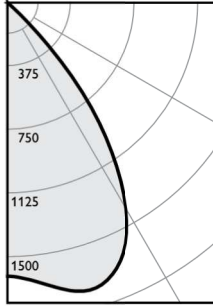
MID23-74318

# C6 Calculite LED 6" gen 3

## Cylinder

### Wide beam, 2500lm Engine, 108.3 lm/W

**Candela Curve**



Cylinder: C6SDL25835WZ10UCLW

Output lumens: 2307 lms  
Input watts: 21.3 W  
CRI: 80 min  
CCT: 3500K  
Spacing Crit.: 1.1  
Beam Angle: 72°

**Zonal summary**

Zone	Lumens	%Luminaire
0-30	1394	60.4%
0-40	2059	89.2%
0-60	2302	99.8%
0-90	2307	100.0%

Angle	Mean CP	Lumens
0	1612	
5	1641	159
10	1705	
15	1760	495
20	1740	
25	1629	740
30	1408	
35	1083	665
40	700	
45	270	232
50	39	
55	9	12
60	5	
65	3	3
70	2	
75	1	1
80	1	
85	1	1
90	0	

**Single unit data**

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	64	5.5'
6'	45	6.6'
7'	33	7.7'
8'	25	8.8'
9'	20	9.9'

\* Beam diameter is where foot-candles drop to 50% of maximum.

**Multiple unit data - RCR 2**

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	104.1	0.94
6'	68.3	0.62
7'	48.8	0.44
8'	40.7	0.37
9'	32.5	0.30

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

**Efficacy:** 108.3 lm/w  
**Report#:** F37140

**Adjustment factors**

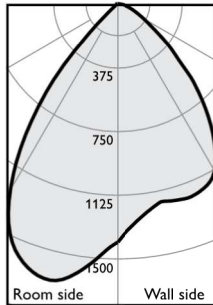
Finish	CCT	Lumens
CL = 100%	80CRI 4000K = 102%	6000lm = 240%
CC = 95%	80CRI 3500K = 100%	4800lm = 192%
CD = 87%	80CRI 3000K = 97%	3500lm = 140%
CZ = 63%	80CRI 2700K = 87%	2500lm = 100%
WH = 87%	90CRI 3000K = 77%	2000lm = 80%
BK = 57%	90CRI 2700K = 73%	1500lm = 60%
		1000lm = 40%

**Coefficients of utilization**

Room Cavity Ratio	80%	70%	50%	30%	0%
0	119	119	119	119	119
1	113	110	108	105	103
2	107	102	98	94	91
3	101	94	89	85	81
4	95	87	81	77	74
5	90	81	75	70	67
6	85	75	69	64	61
7	80	70	64	59	57
8	76	66	59	55	52
9	72	61	55	51	49
10	68	57	51	47	45

### Wall Wash, 2500lm Engine, 103.5 lm/w

**Candela Curve**



Room side Wall side

Cylinder: C6SWW25835WZ10UCLW

CCT: 3500K  
Output lumens: 2204 lms  
Input watts: 21.3 W  
CRI: 80 min

**Efficacy:** 103.5 lm/w  
**Report#:** F37141

**Multiple unit data**

Distance from ceiling in feet	2' from wall		
	3' on ctr.	3' on ctr.	3' on ctr.
1	33	24	33
2	61	44	61
3	58	60	58
4	46	49	46
5	37	37	37
6	28	29	28
7	23	23	23
8	19	19	19
9	16	16	16
10	14	14	14
12	12	12	12
14	10	10	10

**Multiple unit data**

Distance from ceiling in feet	3' from wall		
	3' on ctr.	3' on ctr.	3' on ctr.
1	15	15	15
2	26	26	26
3	37	37	37
4	40	42	40
5	38	38	38
6	33	33	33
7	28	28	28
8	24	24	24
9	20	20	20
10	18	18	18
12	14	15	14
14	13	12	13

**Multiple unit data**

Distance from ceiling in feet	3' from wall			
	4' on ctr.	4' on ctr.	4' on ctr.	4' on ctr.
1	13	11	13	13
2	22	18	22	22
3	31	26	31	31
4	31	32	31	31
5	28	30	28	28
6	25	26	25	25
7	21	22	21	21
8	18	18	18	18
9	16	16	16	16
10	14	14	14	14
12	11	11	11	11
14	10	10	10	10

**Adjustment factors**

Finish	CCT	Lumens
CL = 100%	80CRI 4000K = 102%	6000lm = 202%
CC = 95%	80CRI 3500K = 100%	4800lm = 192%
CD = 87%	80CRI 3000K = 97%	3500lm = 140%
CZ = 63%	80CRI 2700K = 87%	2500lm = 100%
WH = 87%	90CRI 3000K = 77%	2000lm = 80%
BK = 57%	90CRI 2700K = 73%	1500lm = 60%
		1000lm = 40%

1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.



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**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
CASKXXXWH

Notes: ADVISE STEM LENGTH

**Type:**

**P62**

MID23-74318

**LIGHTOLIER**

by Signify

**Downlighting**

Calculite LED 6" gen 3

C6 Cylinder



**Calculite LED 6" generation 3** provides an excellent coupling of lighting performance, quality of light, and visual aesthetic. Industry leading visual comfort and uniform illumination make it an ideal choice for office, institution, healthcare, public, and retail applications.

**Standard luminaire:** Order without BAC option code.  
**Buy American Act of 1933 (BAA)\* Compliant luminaire:** Order with BAC option code.

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

**Fixture**

standard example: C6SDL15935MZ10UCCW | BAC example: C6SDL15935MZ10UCCW-BAC

Series	Mounts	Styles	Lumens	CRI	CCT	Beams	Dimming	Dim opts	Voltage	Reflector finish	Cylinder finish	Buy American
<b>C6</b>												
C6 Calculite LED 6"	S Surface	DL Downlight	10 1000	8 80	27 2700K	N Narrow	Z10 0-10V 1%	D2O Dim to Off	U 120V/277V 3 347V (Z10 only)	CL Specular clear	W White (matte)	BAC Meets the conditions of the Buy American Act of 1933 (BAA)*
	W Wall	WW Wall Wash <sup>2</sup>	15 1500	9 90	30 3000K	M Medium	L01 Lutron PEQO EcoSystem 0.1% (up to 2500lm) L1 Lutron LDE1 EcoSystem (up to 3500lm)		U 120V/277V	CC Comfort clear	B Black (matte)	
	P Pendant <sup>1</sup>	DW Double Wall Wash <sup>2</sup>	20 2000		35 3500K	W Wide <sup>2</sup>	D DALI 0.1% <sup>5</sup>	LIN Linear	U 120V/277V	CD Comfort clear diffuse	A Aluminum	
			25 2500		40 4000K		DMX Digital Multiplexing w/RDM 0.1% <sup>3,5</sup> SOL 0-10V 0.1%	LIN Linear SQR Square	U 120V/277V	CZ Champagne bronze	RAL RAL Color <sup>6</sup> (standard code)	
			35 3500				LTE Lutron LTE Hi-Lume Phase Cut 1% (up to 3500lm) E Forward & Reverse Phase (up to 2500lm)		1 120V	BK Black (matte)		
			48 4800 <sup>3</sup>				RA Integral Interact Pro RF sensor <sup>4</sup> (enables wireless connected lighting control)		U 120V/277V			
			60 6000 <sup>3</sup>									

**Pendant accessories (field adjustable)<sup>1</sup> example: CASK36BK**

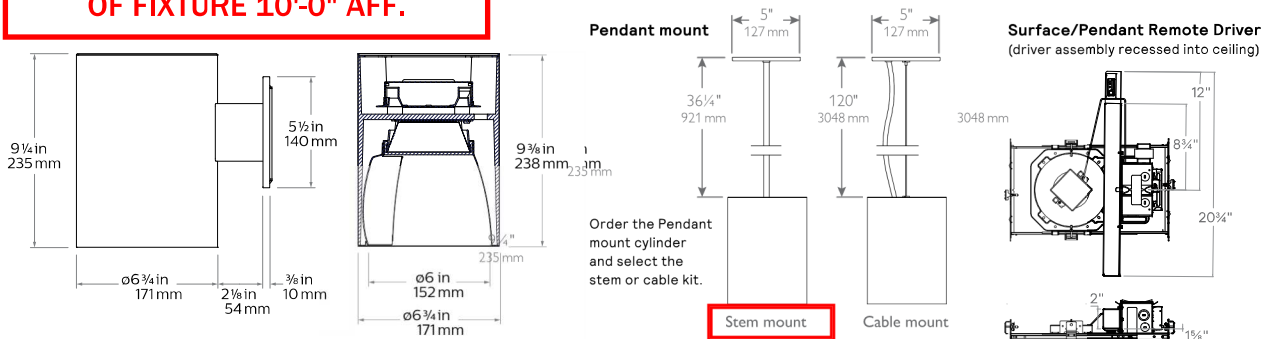
Series	Mounts	Length	Finish	Options
<b>CA</b>		<b>ADVISE</b>		
CA Calculite Accessory	SK Stem Kit	36 36 inches	WH White (matte)	- None
		48 48 inches	BK Black (matte)	X DMX dimming only
		60 60 inches	AL Aluminum	
		72 72 inches	RAL RAL Color <sup>6</sup> (standard code)	
CK Cable Kit <sup>2</sup>	10 120 inches (RAL canopy kit will be with black cord)	(same four color options as above)	- None	

**Accessories (not currently BAA-compliant)**

- SBA** Interact Ready System Bridge Accessory  
(refer to Philips System Bridge Accessory spec sheet for options and details  
requires IRT9015 IR remote & Interact Pro App for commissioning)
- Pendant (P) option needs to be ordered with an accessory.
  - Wall Wash (WW) and Double Wall Wash (DW) are only available with Wide (W) beam.
  - Digital Multiplex (DMX) dimming is not compatible with the Cable Kit (CK) accessory.
  - Requires external mount driver available only for surface (S) and pendant (P) mounts.  
See dimensions on page 1 and details on page 2.
  - Remote driver configuration required on 4800lm and 6000lm configurations.  
Available only on surface (S) and pendant (P) mounts.
  - RAL standard colors can be specified upon request. Add RAL standard code to (RALxxxxx).
  - Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.

**PROVIDE STEM LENGTH(S) AS  
REQUIRED TO SUSPEND BOTTOM  
OF FIXTURE 10'-0" AFF.**

**ADVISE STEM LENGTH REQUIRED**





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
CASKXXXWH

Notes: ADVISE STEM LENGTH

**Type:**

**P62**

MID23-74318

# C6 Calculite LED 6" gen 3 Cylinder

## Cylinder

**Cylinder housing:** Cast aluminum, available for installation onto a 3" or 4" junction box, stem, cable, or wall mounted.

**Surface mounting (C6S):** Mounts directly to junction box. Listed for wet location use.

**Pendant mounting (C6P):** Order with the stem or cable kit. Listed for damp location use.

**Wall Mounting (C6W):** Pre-attached hardware allows for simple installation into wall mounted junction box. Listed for damp location use.

## Pendant accessories

**Stem mounting kit:** 0.375" diameter steel stem (1/8" National Pipe Thread, can be field cut to required length. 5-wire conductor cable runs alongside of stem for power and dimming. Magnetic attachment of canopy to junction box provides clean look free of hardware. Self-aligning swivel mounting system ensures cylinder hangs straight down. Stem can be cut in field for length adjustment. A 1/8" hole is required to reconnect the pendant stem to the canopy swivel. Swivel accommodates max 45° pitch.

**Cable mounting kit:** 10' long steel cable with 5-wire cable for power and dimming. Hardware free canopy for clean aesthetics.

## Remote drivers

- Available with surface and pendant mounts only
- Requires new construction or accessibility from above for initial installation
- Mains/control wiring in frame junction box
- Connection to light engine in secondary junction box
- Remote driver is accessible from below upon removal of the cylinder

## Dimming drivers

All configurations are FCC Class A unless otherwise specified.

- Advance 0-10V 1% (Z10), logarithmic curve is standard, specify D20 for factory-set dim-to-off function, consult factory for linear dimming curve.
- EldoLED SOLODrive (SOL) 0-10V 0.1%
- Lutron PEQ0 (L01) Hi-Lume Premier EcoSystem 0.1%
- Lutron LDE1 (L1) EcoSystem 1%
- Lutron LTE (LTE) Hi-Lume 2-wire phase cut 1%
- Electronic low voltage (E) - forward or reverse phase dimming, remodel and AirSeal IC Shallow are FCC Class B
- DALI (D) - DT6 DALI 0.1%
- DMX (DMX) - Digital multiplexing with RDM 0.1%

## Dimming options:

- The following are factory-set for the SOL, D, and DMX driver options (ex. DMXLIN):
- SOL/D/DMX: Logarithmic (-) standard
- SOL/D/DMX: Linear (LIN)
- SOL/DMX: Square (SQR)

## Optical systems

### MesoOptics PET optical diffusion film:

Provides a smooth beam shape and mitigates color over angle with optimized luminaire efficiency.

### Comfort throughout the space:

Patented optical system combines primary and secondary optics to provide a true 50° physical cutoff and 45° reflected cutoff virtually eliminating the view of the light source and bright spots in the reflector. A new reflector curve reduces reflector brightness by up to 50% compared to existing products, allowing for the

use of higher lumen packages in smaller apertures without creating bright spots in the ceiling.

**Quality of light:** 2 SDCM ensures color consistency from fixture to fixture and over the luminaire's long lifetime. Proprietary optical grade silicone lens with patterned surface provides soft, even beam diffusion without hotspots or dark rings.

## ENERGY STAR® exceptions

- 90 CRI configurations
- Champagne Bronze and Black finishes
- EldoLED Solo drivers

## Labels and Listings

- cULus listed for wet locations (surface mount)
- cULus listed for damp locations (wall and pendant mount)
- ENERGY STAR® certified
- RoHS certified

## Warranty

5 year warranty on complete system.



Complete warranty available at:  
[http://images.philips.com/is/content/PhilipsConsumer/PDFDownloads/United%20States/ODL120150930\\_003-UPD-en\\_US-Philips-warranty-indoor-PLS-us.pdf](http://images.philips.com/is/content/PhilipsConsumer/PDFDownloads/United%20States/ODL120150930_003-UPD-en_US-Philips-warranty-indoor-PLS-us.pdf)

## Narrow (0-10V)

Lumen package	Input volts	Input freq	Input current	Drive current	Input power	THD power	Power factor
1000lm	120V	50/60Hz	0.08	230mA	9W	<15%	>0.95
	277V		0.04			<20%	>0.90
1500lm	120V	50/60Hz	0.11	340mA	15W	<10%	>0.95
	277V		0.05			<15%	>0.95
2000lm	120V	50/60Hz	0.16	460mA	22W	<10%	>0.95
	277V		0.08			<15%	>0.95
2500lm	120V	50/60Hz	0.20	590mA	25W	<10%	>0.95
	277V		0.10			<15%	>0.95
3500lm	120V	50/60Hz	0.30	900mA	36W	<10%	>0.95
	277V		0.14			<15%	>0.95
4800lm	120V	50/60Hz	0.42	1250mA	51W	<10%	>0.95
	277V		0.19			<15%	>0.95
6000lm	120V	50/60Hz	0.48	1400mA	57W	<10%	>0.95
	277V		0.21			<15%	>0.95

## Medium/Wide (0-10V)

Lumen package	Input volts	Input freq	Input current	Drive current	Input power	THD power	Power factor
1000lm	120V	50/60Hz	0.08	210mA	9W	<15%	>0.95
	277V		0.04			<20%	>0.95
1500lm	120V	50/60Hz	0.11	320mA	15W	<10%	>0.95
	277V		0.05			<15%	>0.95
2000lm	120V	50/60Hz	0.15	430mA	19W	<10%	>0.95
	277V		0.07			<15%	>0.95
2500lm	120V	50/60Hz	0.19	550mA	23W	<10%	>0.95
	277V		0.09			<15%	>0.95
3500lm	120V	50/60Hz	0.25	570mA	30W	<10%	>0.95
	277V		0.11			<15%	>0.95
4800lm	120V	50/60Hz	0.36	810mA	40W	<10%	>0.95
	277V		0.16			<15%	>0.95
6000lm	120V	50/60Hz	0.50	1130mA	57W	<10%	>0.95
	277V		0.22			<15%	>0.95

## Lifetime (TM-21) data

Lumens	Narrow beam	Medium/Wide beam
1000lm / 1500lm / 2000lm	L90 @ 60,000 hrs.	L90 @ 60,000 hrs.
2500lm / 3500lm / 4800lm / 6000lm	L90 @ 60,000hrs.	L85 @ 60,000hrs.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
PD411318AG

Notes: SPEC PART NUMBER & DESCRIPTION DO NOT MATCH - QUOTING PER DESCRIPTION

**Type:**  
**P110**

MID23-74318

# alora mood

**SHALL BE SAME MANUFACTURER AS P111 TO MATCH FINISHES**

USA: 3035 E. Lone Mountain Rd - Las Vegas, NV, 89081

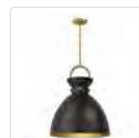


**WALDO**  
**PD411318**

FIXTURE DIMENSIONS	D18" x H21-3/4"
LAMP TYPE	E26
WATTAGE	<del>1 x 60W</del>
MAX WATTAGE	<del>60W</del>
BULB QTY	1
BULBS INCLUDED	No
VOLTAGE	<del>120V</del> <b>277V or UNV</b>
MATERIAL	Steel
ROD LENGTH	46" Max (3x12" + 1x6" + 1x4")
MINIMUM HANG HEIGHT	30"
SLOPED CEILING ADAPTABLE	Yes, Up to 45 Degrees
LOCATION	Dry
CANOPY DIMENSIONS	D4-5/8" x H5/8"
BRAND	Alora Mood

[ D - Diameter, L - Length, W - Width, H - Height, E - Extension ]

**AVAILABLE FINISHES:**



PD411318AGMB  
Aged Gold/Matte Black



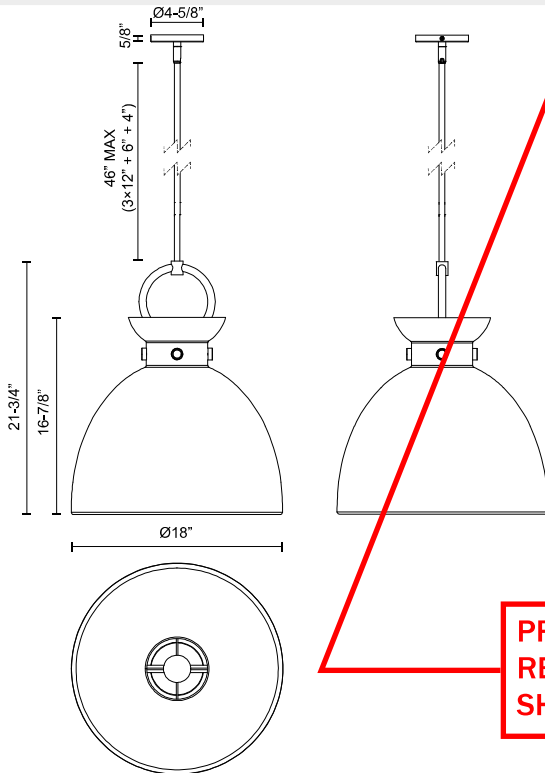
PD411318MBAG  
Matte Black/Aged Gold

**BRONZE FINISH**

\*For complete warranty terms, please visit: [www.aloralighting.com/warranty](http://www.aloralighting.com/warranty)

**PROVIDE LABEL ON FIXTURE THAT LUMINAIRE ONLY USES LED LAMPS NOT EXCEEDING 25W**

**PROVIDE SUSPENSION LENGTH(S) AS REQUIRED TO ACHIEVE MOUNTING HEIGHT(S) SHOWN ON CONSTRUCTION DOCUMENTS.**



WWW.ALORAMOOD.COM





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
492208-BN

Notes: SPEC PART NUMBER & DESCRIPTION DO NOT MATCH - QUOTING PER DESCRIPTION

**Type:**  
**P111**

MID23-74318

**CASTOR**  
**492208**  
PENDANTS

PROJECT

**SHALL BE SAME MANUFACTURER AS P110 TO MATCH FINISHES**

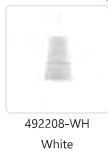


**DESCRIPTION**

Single-lamp pendant with conical aluminum shade showcasing powder-coated finishes against a matte white interior. Exterior shade colors are black, gray, white or blue. Metallic exterior options are brushed nickel or gold. Suspended by cloth cable

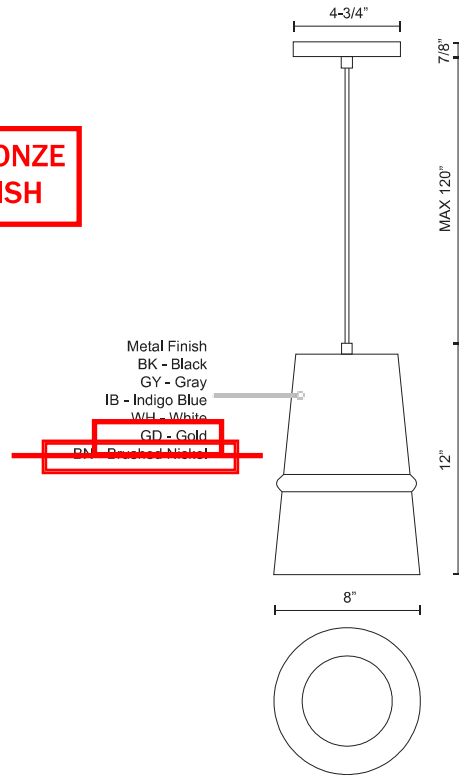


**BRONZE FINISH**



**SPECIFICATION DETAILS**

<b>Fixture Dimensions</b>	D8" x H12"
<b>Lamp Type</b>	Incandescent, Medium Base
<b>Wattage</b>	<del>75-60W</del>
<b>Voltage</b>	<del>120V</del> <b>277V or UNV</b>
<b>Shade Details</b>	Spun Aluminum Shade
<b>Adjustable</b>	Yes
<b>Wire Length</b>	120" Max
<b>Wire Type</b>	BK, BN, IB, GY, GD - Black Braided Cord; WH - White Braided Cord;
<b>Sloped Ceiling Adaptable</b>	Yes
<b>Location</b>	Dry
<b>Bulbs Included</b>	No
<b>Canopy Dimensions</b>	D4-3/4" x H7/8"



Metal Finish  
BK - Black  
GY - Gray  
IB - Indigo Blue  
WH - White  
GD - Gold  
~~BN - Brushed Nickel~~

**PROVIDE LABEL ON FIXTURE THAT LUMINAIRE ONLY USES LED LAMPS NOT EXCEEDING 25W**

**PROVIDE SUSPENSION LENGTH(S) AS REQUIRED TO ACHIEVE MOUNTING HEIGHT(S) SHOWN ON CONSTRUCTION DOCUMENTS.**

**KUZCO**

19054 28TH AVENUE  
SURREY - BC V3Z 6M3  
CANADA

WWW.KUZCOLIGHTING.COM





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-4'**  
MID23-74318



**SUPERPLANE 2.5**  
THE HARMONIC COLLECTION | ACOUSTICS  
SP2.5SA | CONTROLROLL OPTICS | SUSPENDED

Revise and Resubmit - The felt will not match the adjacent baffles as scheduled in Contract Documents. TURF baffle has LED light option.

**BAFFLE SYSTEM WILL BE TURF - PROVIDE TURF LIGHTING MATCHING BAFFLE SYSTEM AS SPECIFIED. P200 & P201 FIXTURES SHALL MATCH TURF BAFFLE FINISH.**



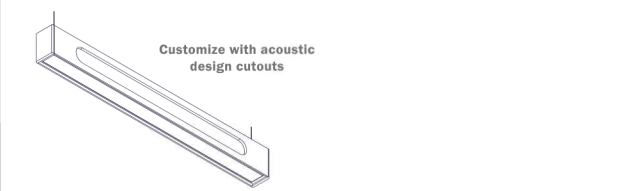
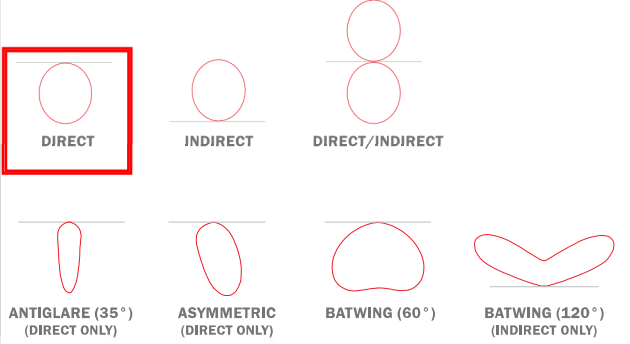
**SPECIFICATIONS**

<b>PROFILE</b>	2.5" Aperture, 3.93" total width
<b>SIZES</b>	2ft - 8ft sections
<b>LED OUTPUT</b>	350lm/ft - 1,525lm/ft
<b>CCT/CRI</b>	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W
<b>DIMMING/DRIVER</b>	Integral and Remote Driver (0-10V, DALI, DMX, eldoLED, Lutron®, PoE (Moxel, Igor, NuLEDs)). Dimming to 0% for select models.
<b>POWER</b>	3.1W - 10.7W per ft.
<b>INPUT</b>	120VAC, 277VAC, or 347VAC
<b>OPTICS</b>	Controlroll Optics - Continuous lens up to 250ft. Direct/indirect. Lambertian, Asymmetric, Batwing and Anglare/Grazer optics available.
<b>FINISHES</b>	10 standard acoustic colors. 18 standard finishes at no extra charge. Custom finishes available.
<b>MATERIAL</b>	6063-T6 Extruded Aluminum. 0.5" PET polyester felt.
<b>ENVIRONMENT</b>	Dry or damp locations

**WELL/UGR** See pages 8-9 for recommended options that contribute to meeting the WELL Building Standard™. UGR values available under 'Glare Control' on page 8.

\*Safety and Performance information available on last two pages. Output and other specifications available on pages 10-11.

**DISTRIBUTIONS & PROFILES**



Not to scale. Dimensions are nominal. Consult factory for CAD drawing



Rev 033123

**SP2.5SA - SPECIFICATIONS SUSPENDED**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/FT. ADVISE COLOR

**Type:**  
**P200-4'**

MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE TURF LIGHTING MATCHING BAFFLE SYSTEM AS SPECIFIED. P200 & P201 FIXTURES SHALL MATCH TURF BAFFLE FINISH.**



**PRODUCT SPECIFICATION SHEET**

1	2	4a	4b	4c	5	6	7a	7b	7c	8	9	10	11	12	13	14
1.5a	1.5b	1.5c														

**EXAMPLE: SP2.5SA - CAP/M - S5 - MED/90/3500 - V00 - CR/S - LOW/90/3500 - 100 - CR/S - ACW - DCSTM**

**GW - GW - UNV - EMB/1 - FCJS/1 - SB**

<b>1. BASE MODEL</b> <b>SP2.5SA</b> 2.5" aperture, 3.93" total width Suspended Acoustic	<b>2. END CAP*</b> (CHOOSE 1) <b>CAP/M</b> Metal End Cap <b>CAP/A</b> Acoustic End Cap <small>*Add an aesthetic touch with a brushed or powder coated end cap. Metal end caps are not available for indirect only lampping option.</small>	<b>3. NOMINAL LENGTH*</b> (ENTER LENGTH IN FEET) <b>4'</b> Individual/Straight Run section from 2-8ft (enter length in product code above, ex. S5) <small>*Lengths are nominal. To ensure lengths match the exact lengths of other fixtures and/or sound baffles on the project it's recommended to include all products on a single purchase order, provide RCP (Reflective Ceiling Plan), and any additional details for ALW to review.</small>	<b>4. LED LAMPING - DIRECT*</b> (CHOOSE 1 FOR EACH) <b>A. OUTPUT*</b> <b>B. CRI*</b> <b>C. CCT*</b> <b>MIN</b> (350 lm/ft) <b>NO CRI/CCT*</b> <b>2700K*</b> <b>LOW</b> (475 lm/ft) <b>80</b> <b>3000K</b> <b>MED</b> (750 lm/ft) <b>90</b> <b>3500K</b> <b>HI</b> (1030 lm/ft) <b>BIOS*</b> (STATIC BIOS) <b>4000K</b> <b>MAX</b> (1250 lm/ft) <b>BIOS*</b> (DYNAMIC BIOS) <b>RGB</b> (140 lm/ft) <b>TUNE</b> (2700K-6500K, 90 CRI, 475/515 lm/ft) <b>RGBW</b> (3500K, White, 80 CRI, 140/220 lm/ft) <b>CSM</b> _____ <small>*Enter lumens in product code above, Ex. 0100=100lm/ft</small>
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<b>5. DRIVER - DIRECT*</b> (CHOOSE 1) QS <b>N</b> (None) QS <b>V00</b> (dim to off) QS <b>V01</b> (0-10V, dim to 1%) QS <b>V05</b> (0-10V, dim to 5%) <b>LDE1</b> (Lutron ECOSYS1, 0-10V, dim to 1%) <b>P01</b> (ELV/TRIAC phase dim to 1%) <b>TSERIES</b> (Lutron tuneable white) <b>ELDV0</b> (eldoLED 0-10V dim to 0%) <b>ELDDW</b> (eldoLED dim to warm) <b>DALI</b> (DALI, dim to 0%) <b>DMX</b> (DMX, dim to 0%) <b>POEM</b> (POE Molex) <b>POEI</b> (POE IGOR) <b>POEN</b> (POE Nuleds) <b>POE</b> (POE Ready) <small>*See 'Driver', 'Sensor' and lampping charts for driver details and sensor compatibility. *Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice.</small>	<b>6. LENS - DIRECT</b> <b>N</b> None. <b>CR/S</b> ControlRoll lens with diffused, lambertian distribution <b>CR/ASY</b> ControlRoll lens with asymmetric/wall wash distribution (peak intensity 60°) <b>CR/BAT</b> ControlRoll lens with batwing/floor distribution (peak intensity 60°) <b>CR/AG</b> ControlRoll lens with antiglare/grazer optics (35° distribution) <small>*Select when direct lampping is not desired. The lens will be substituted with an aluminum lid with same finish as fixture. *Not available for TUNE, RGB, RGBW, BIOS, or BIOSD lampping.</small>	<b>7. LED LAMPING - INDIRECT*</b> (CHOOSE 1 FOR EA.) <b>N</b> None. Select when indirect lampping is not desired. Lens substituted with aluminum lid. Must select direct lampping. <b>A. OUTPUT</b> <b>B. CRI*</b> <b>C. CCT*</b> <b>MIN</b> (370 lm/ft) <b>NO CRI/CCT*</b> <b>2700K*</b> <b>LOW</b> (500 lm/ft) <b>80</b> <b>3000K</b> <b>MED</b> (775 lm/ft) <b>90</b> <b>3500K</b> <b>HI</b> (1050 lm/ft) <b>BIOS*</b> (STATIC BIOS) <b>4000K</b> <b>MAX</b> (1300 lm/ft) <b>BIOS*</b> (DYNAMIC BIOS) <b>RGB</b> (150 lm/ft) <b>TUNE</b> (2700K-6500K, 90 CRI, 490/530 lm/ft) <b>RGBW</b> (3500K, White, 80 CRI, 150/325 lm/ft) <b>CSM</b> _____ <small>*Enter lumens in product code above, Ex. 0100=100lm/ft</small>	<b>8. DRIVER - INDIRECT*</b> (CHOOSE 1) QS <b>N</b> (None) QS <b>V00</b> (dim to off) QS <b>V01</b> (0-10V, dim to 1%) QS <b>V05</b> (0-10V, dim to 5%) <b>LDE1</b> (Lutron ECOSYS1, 0-10V, dim to 1%) <b>P01</b> (ELV/TRIAC phase dim to 1%) <b>TSERIES</b> (Lutron tuneable white) <b>ELDV0</b> (eldoLED 0-10V dim to 0%) <b>ELDDW</b> (eldoLED dim to warm) <b>DALI</b> (DALI, dim to 0%) <b>DMX</b> (DMX, dim to 0%) <b>POEM</b> (POE Molex) <b>POEI</b> (POE IGOR) <b>POEN</b> (POE Nuleds) <b>POE</b> (POE Ready) <small>*See 'Driver', 'Sensor' and lampping charts for driver details and sensor compatibility. *Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice.</small>
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<b>9. LENS - INDIRECT</b> (CHOOSE 1) <b>N</b> None. <b>CR/S</b> ControlRoll lens with diffused, lambertian distribution <b>CR/BAT</b> ControlRoll lens with batwing/floor distribution (peak intensity 60°) <b>BAT</b> Rigid batwing optic (peak intensity 120°) <small>*Lens will be substituted with an aluminum lid with same finish as fixture. *Not available for TUNE, RGB, RGBW, BIOS, or BIOSD</small>	<b>10. ACOUSTIC FINISH*</b> (CHOOSE 1) <b>ACW</b> Crystal White <b>AMW</b> Marble White <b>AHG</b> Heather Gray <b>ACG</b> Charcoal Gray <b>AJB</b> Jet Black <b>AJW</b> Ivory White <b>AAG</b> Aloe Green <b>ATO</b> Titan Orange <b>ASR</b> Scarlet Red <b>AMB</b> Midnight Blue <small>*See page 7 for larger swatches and additional information</small>	<b>11. ACOUSTIC DESIGN</b> (CHOOSE 1) <b>N</b> None, Choose for a solid acoustic insert. <b>DCSTM</b> Custom Design (See template on page 5) <b>N= Solid Acoustic</b> <b>DCSTM= Custom Design Cutout</b>	<b>12. FIXTURE FINISH*</b> (CHOOSE 1) <b>STANDARD FINISHES</b> <b>AL</b> Anodized Aluminum <b>SW</b> Satin White <b>SB</b> Satin Black <small>See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze)</small> <b>SPECIAL ORDER FINISHES*</b> <b>RAL</b> Specify RAL Classic Color (Ex: RAL 3003) - <b>CAT</b> Specify Catalog Colors <b>CSM</b> Custom Color Match <small>*Manually type in the finish code for special order finishes. *Unless specified otherwise, Anodized Aluminum finish is provided by default for Solid Acoustic Designs. If an Acoustic Design Cutout (DCSTM) is desired, specify any other finish.</small>
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**ADVISE**

CONTINUES ON NEXT PAGE

**SP2.5SA - SPECIFICATIONS SUSPENDED**

ALWUSA.COM 2 of 20



**Job Name:**  
 DUTCHESS STADIUM  
 Distributor: LS FIELDTECH, LLC.  
 (ROCHESTER)

**Catalog Number:**  
 SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
 1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
 Notes: MOD = 8" tall acoustic panel & 500 LM/  
 FT. ADVISE COLOR

**Type:**  
**P200-4'**  
 MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
 TURF LIGHTING MATCHING BAFFLE SYSTEM  
 AS SPECIFIED. P200 & P201 FIXTURES  
 SHALL MATCH TURF BAFFLE FINISH.



**PRODUCT SPECIFICATION SHEET CONT'D**

13. FINISH - END CAP (CHOOSE 1)	14. VOLTAGE (CHOOSE 1)	15a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)
<b>N<sup>13</sup></b> <input checked="" type="checkbox"/> None.	<b>UNV</b> <input checked="" type="checkbox"/> Universal Voltage (120VAC-277VAC) <b>347</b> <input type="checkbox"/> 347 Volt (Driver options may be limited. Not available with EMB)	<b>EMB/_</b> <sup>14</sup> <input type="checkbox"/> Emergency Battery (indicate QTY – each battery powers 4ft. section @ 1492lm. Not available in 347 V)  <b>EMC/_</b> <sup>14</sup> <input type="checkbox"/> Emergency Circuit ( indicate QTY of 4ft sections to be illuminated by emergency circuit)

**STANDARD FINISHES**

- LB**  Light Brushed Aluminum
- SW**  Satin White
- SB**  Satin Black

— See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze)

**SPECIAL ORDER FINISHES\***

- RAL**\_\_\_\_ Specify RAL Classic Color (Ex: RAL 3003) -
- CAT**\_\_\_\_ Specify Catalog Colors
- CCM**\_\_\_\_ Custom Color Match

\*Manually type in the finish code for special order finishes

**<sup>13</sup>Select when specifying acoustic end cap.**

15b. SENSOR OPTIONS* (OPTIONAL, CHOOSE 1)	15c. ADDITIONAL OPTIONS (OPTIONAL)
<b>N</b> (None) <input checked="" type="checkbox"/> <b>WLNx/INT/_</b> (Cooper Wavelinx, integral) <b>WLNx/_</b> (Cooper Wavelinx, remote) <b>ENLGHT/_</b> (Enlighted, remote) <b>ENLGHT/INT/_</b> (Enlighted, integral) <b>VRF/_</b> (Lutron Vive, integral) <b>VDO/_</b> (Lutron Vive, integral+ occ/daylight sensor) <b>FCJS/_</b> (Lutron, remote) <b>FCJS/S/_</b> (Lutron, remote + occ/daylight sensor) <b>MLX/INT/_</b> (Molex POE, integral)	<b>MLX</b> (Molex POE, remote) <b>NLT/INT/_</b> (nLight wired, integral occ/daylight sensor) <b>NLT</b> (nLight wired remote connection) <b>NLTAIR/INT/_</b> (nLight AIR, integral) <b>NLTAIR</b> (nLight AIR, remote connection) <b>OS/PH/INT/_</b> (Acuity 0-10V, integral occ/daylight sensor) <b>OS/INT/HV/_</b> (Legrand Workstopper High Voltage integral occ/daylight sensor) <b>OS/PH/HV/_</b> (Hubbell WASP remote occ/daylight sensor)

\*Quickship availability on occupancy and photocell/daylight sensors may vary, Contact ALW for more information.  
 \*Default quantity is 1 sensor per 8ft. type alternate quantity into product code above if desired. See sensor descriptions available on page 15.  
 \*Not all sensors are compatible with all drivers. See "Driver", "Sensor" and lamping charts for driver details and sensor compatibility.



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

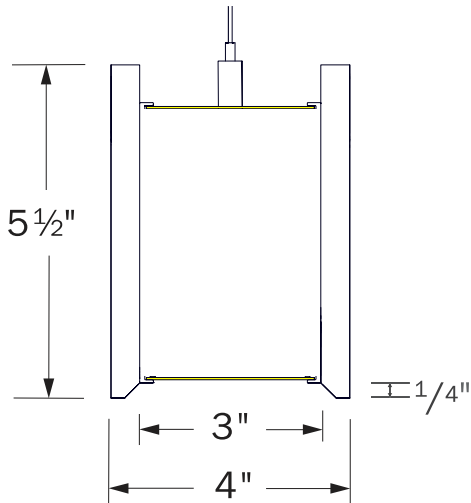
**Type:**  
**P200-4'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

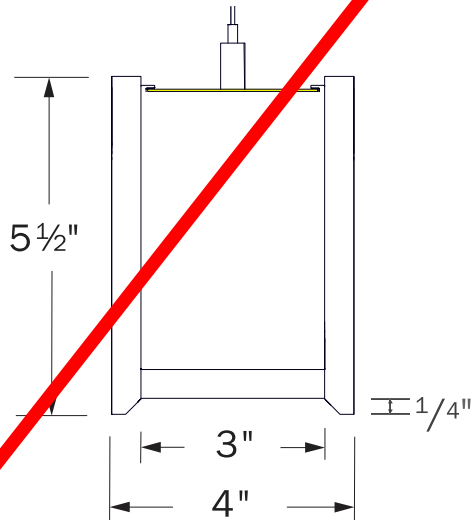


**MECHANICAL DIAGRAMS**

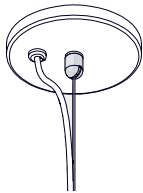
**DIRECT OR DIRECT/INDIRECT**



**INDIRECT ONLY**

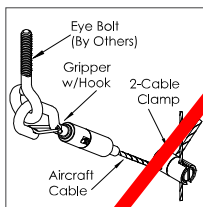


**SUSPENSION MOUNTING OPTIONS**



**CEILING HARDWARE**

- 4.5" canopy per power feed location. Canopy finish is always white. Contact ALW for alternate color.
- Bullet mount.
- 8' aircraft cable
- 2" canopy (for use with T-bar mounting) per suspension point



**SEISMIC BRACING (SB)**

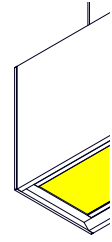
Add-on hardware includes cable gripper with hook, 2-cable clamp and specified length of aircraft cable per suspension point.

**ACOUSTIC END CAP**



Available with Direct, Indirect, or Direct/Indirect Lamping. When Indirect Only is specified an acoustic lid will be installed on the direct lamping side.

**METAL END CAP**



Available with Direct or Direct/Indirect Lamping. Metal end caps are not available for Indirect Only Lamping.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

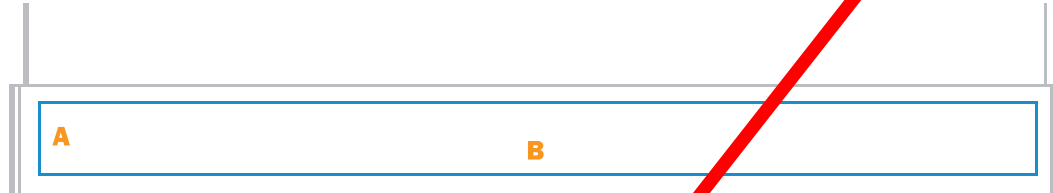
**Type:****P200-4'**

MID23-74318

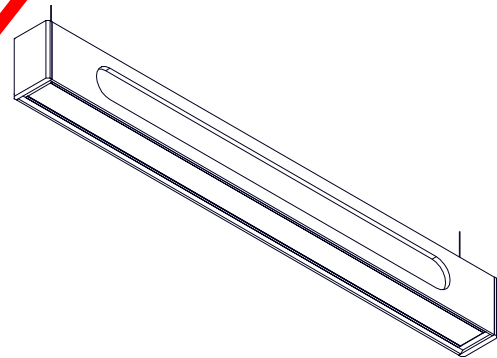
**CUSTOM ACOUSTIC PATTERNS**

Choose from a solid sound absorbing baffle or create your own custom designs by following the instructions and template guidelines below. Gray areas indicate templates for acoustic pattern cutouts.

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



DIMENSION	BASE MODEL	CUT OUT AREA
A	<b>SP2.5SA</b> - 5.5" height	3.5"
	<b>S2</b> - 2' (24") length	22"
	<b>S3</b> - 3' (36") length	34"
	<b>S4</b> - 4' (48") length	46"
B	<b>S5</b> - 5' (60") length	58"
	<b>S6</b> - 6' (72") length	70"
	<b>S7</b> - 7' (84") length	82"
	<b>S8</b> - 8' (96") length	94"

**HOW TO SUBMIT YOUR CUSTOM ACOUSTIC PATTERN?****1. DOWNLOAD THE ACOUSTIC CUSTOM PATTERN .ZIP FILE ON THE PRODUCT PAGE**

Open the appropriate .ai (Adobe Illustrator) or CAD .dxf file.

**2. INPUT YOUR DESIGN WITHIN THE TEMPLATE AREA.**

Template area will be marked with a dashed perimeter.

**3. SAVE YOUR FILE INCLUDE THE PROJECT NAME AND OTHER SUPPORTING INFO AT THE END OF THE FILE NAME.**

For example, "SP2.5SA Custom Acoustic Design Template - Project ALW".

**4. SUBMIT FILES BELOW TO ALW FOR REVIEW.**

1. Acoustic Design Template File
2. Product Code and Quantities





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-4'**  
MID23-74318

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**STANDARD FINISHES**

Standard finishes are available at no additional charge.

**ALUMINUM**



Anodized Aluminum

\* Only for Fixture finish



Light Brushed Aluminum

\* Only for End Cap finish

**BASIC POWDER COAT**



Gloss White



Satin White



Antimicrobial Satin White



Textured Matte White



Textured Matte Black

**METALLIC POWDER COAT**



Silver Gray



Charcoal Gray



Copper



Brass

**SATIN ANODIZED EFFECT POWDER COAT**



Clear Silver



Oil-Rubbed Bronze



Dark Bronze



Satin Black

**GLOSS POWDER COAT (80-95% GLOSS)**



Orange RAL 2003



Red RAL 3020



Magenta RAL 4010



Blue RAL 5015

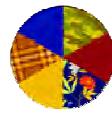
Contact ALW Quotes for sample paint finish swatches.

**SPECIAL ORDER FINISHES\***



**RAL CLASSIC COLORS (80-95% GLOSS): RAL\_ \_ \_ \_**

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003). See [www.alwusa.com/finishes](http://www.alwusa.com/finishes)



**CUSTOM COLOR MATCH: CCM\_ \_ \_ \_**

Custom powder coat color matching is available for a premium setup fee. Consult [ALW](http://www.alwusa.com) for additional information.



**CATALOG COLORS: CAT\_ \_ \_ \_**

The complete range of powder coat colors from [Tiger Drylac](#) and [TCL](#) catalogs are available for a minimum setup fee. Consult ALW for a catalog color you would like to specify.

\*An individual setup fee will apply to each unique Special Order Finish per purchase order. (ex: RAL 5008 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)

\*Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying)



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(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-4'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



**ACOUSTIC FINISHES**

**ACOUSTIC COLORS & INFORMATION** **ADVISE COLOR**

The Harmonic Collection features 10 acoustic material colors comprised of ~0.5" (12mm) PET polyester fibers, specially designed for premium sound absorption. ALW's PET acoustics as a 2D absorber have a NRC (Noise Reduction Coefficient) of 85%. Each panel is precision-cut to size using our CNC-cutting process, enabling a wealth of design options from beveled edges to custom cutouts. All panels conform to ASTM E84 Class A and EN13501-1 Class B fire ratings.



**COMPANION ACOUSTIC COLORS & RAL FINISHES**

The chart below outlines suggested RAL finishes to complement the acoustic colors above. With exception to ALW Satin Black and Satin White these RAL suggestions are not standard paint finish offerings. See next page for ALW's full paint finish catalog.

ACOUSTIC COLOR	COMPANION RAL FINISHES	ACOUSTIC COLOR	COMPANION RAL FINISHES
Crystal White	ALW Satin Black (SB) ALW Satin White (SW)	Ivory White	ALW Satin Black (SB) ALW Satin White (SW)
Marble White	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Aloe Green	RAL 6025 - Fern Green (slightly darker shade than acoustic) RAL 7013 - Brown Grey ALW Satin Black (SB) ALW Satin White (SW)
Heather Gray	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Titan Orange	RAL 2011 - Deep Orange RAL 5003 - Sapphire Blue RAL 5008 - Grey Blue RAL 8011 - Nut Brow RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Charcoal Gray	RAL 7021 - Black Grey RAL 7024 - Graphite Grey ALW Satin Black (SB) ALW Satin White (SW)	Scarlet Red	RAL 3031 - Orient Red RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Jet Black	ALW Satin Black (SB) ALW Satin White (SW)	Midnight Blue	RAL 5002 - Ultramarine Blue RAL 2011 - Deep Orange RAL 4010 - Magenta RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)



**Job Name:**  
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(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**

**P200-4'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™

ALW is committed to providing the highest quality luminaires for a multitude of applications, with many versatile lighting solutions that contribute to satisfying the WELL Building Standard. Below is a quick guide to assist you in specifying appropriate product configurations for WELL features. Links to official WELL standards can be found [here](#).

### CIRCADIAN LIGHTING DESIGN FEATURE L03

The Circadian Lighting Design feature requires projects to provide users with appropriate exposure to light for maintaining circadian health and aligning the circadian rhythm with the day-night cycle.

To conform to these requirements, the project must meet one of the following 4 light level options (a, b, c, or d) below. These light levels are measured on the vertical plane at eye level of the occupant. The light levels are achieved at least between the hours of 9 a.m. and 1 p.m. and may be lowered after 8 p.m. at night.

DESIGNING WITH ELECTRIC LIGHT ONLY	DESIGNING WITH BOTH ELECTRIC LIGHT & DAYLIGHT	POINTS
a. At least 150 EML [136 melanopic equivalent daylight D65]	b. The project achieves at least 120 EML [109 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	1
c. At least 240 EML [218 melanopic equivalent daylight D65]	d. The project achieves at least 180 EML [163 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	3

Choose from a BIOS Static or BIOS Dynamic light engine to assist in a healthy, circadian lighting design. CCT, CRI, Luminous Flux Multipliers, and Melanopic Ratios are shown below for easy specification.

CIRCADIAN LIGHTING DESIGN (3PT MAX)	BIOS STATIC (BIOS)			BIOS DYNAMIC (BIOSD)			HOW TO SPECIFY
<b>CCT</b>	3000K	3500K	4000K	3000K	3500K	4000K	1. Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b> 2. Select the appropriate Lumen <b>OUTPUT</b> 3. Select the appropriate <b>CCT</b>
<b>CRI / R9</b>	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	
<b>LUMINOUS FLUX MULTIPLIER</b>	0.95	0.98	1.00	0.95	0.98	1.00	See BIOS LED Lamping and Performance Details at the back of this spec sheet for lumen outputs, COI index values, and other additional information.
<b>MELANOPIC RATIO (R)*</b>	0.70	0.80	0.90	0.74	0.83	0.95	

### GLARE CONTROL FEATURE L04

Glare is defined as excessive brightness of a light-source, excessive brightness-contrasts and excessive quantities of light. Glare has been associated with a host of health issues that range from visual discomfort and eye fatigue to headaches and migraines.

To conform to Glare Control requirements, each luminaire must meet one of the following options (a, b, or d) for regularly occupied spaces.

GLARE CONTROL CRITERIA (3PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. Indirect (100% emission above horizontal)	✓	100%	1. Select <b>N</b> (None) for <b>LED LAMPING - DIRECT</b> 2. Select <b>any of the options</b> for <b>LED LAMPING - INDIRECT</b>
b. Unified Glare Rating (UGR)*	✓	14.67 @ 16ft (MAX Output) 12.63 @ 20ft (MAX Output)	1. Select <b>ANY</b> output for <b>LED LAMPING - DIRECT</b> 2. Select <b>CR/S</b> (ControlRoll Diffused Lens) or <b>CR/AG</b> (ControlRoll Antiglare Lens) for <b>LENS</b>
c. Shielding Angle	No	-	-
d. Max. Luminance (45°-90°) Max. Intensity (45°-90°)	✓	4668 cd/m <sup>2</sup> @ MED Output 312.21 cd @ MED Output	1. Select an output of <b>MIN</b> or <b>MED</b> for <b>LED LAMPING - DIRECT</b> 2. Select <b>CR/AG</b> (ControlRoll Antiglare Lens) for <b>LENS</b>

\*Advertised UGR values are averages and were calculated in AGI32 using the following method: 1) A 5.4m x 3.6m room was created and fixtures were spaced 2m apart center-to-center. Calculations were performed at 16ft. and 20ft.

Rev 033123

**SP2.5SA - SPECIFICATIONS**  
**SUSPENDED**

**ALWUSA.COM**  
**8 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**

**P200-4'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™ (CONTINUED)

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

### ELECTRIC LIGHT QUALITY - PART 1: COLOR RENDERING QUALITY + PART 2: FLICKER FEATURE L07

Using light sources that have characteristics similar to daylight, including high color rendering and minimal flicker can improve comfort and well-being of users in a space and contribute to creating a healthy environment.

Part 1: Each luminaire must meet one of the following requirements (a or b) for regularly occupied spaces.

Part 2: Each luminaire must meet the IEEE 1789-2015 Standard Recommended Practice to manage flicker.

PART 1 - ENSURE COLOR RENDERING QUALITY (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. CRI > 90	✓	CRI = 93 - 95	• Select <b>90</b> (90CRI) for <b>LED LAMPING</b>
b. CRI > 80 with R9 > 50	✓	CRI = 83, R9 > 90	• Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b>
c. IES Rf ≥ 78, IES Rg ≥ 100, -1% ≤ IES Rcs, h1 ≤ 15%	No	-	-
PART 2 - MANAGE FLICKER (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
Meets IEEE 1789-2015 Standard Recommended Practice	✓	Modulation = 1% Flicker Frequency = 120/2000Hz	• Select <b>V05, V01, LDE1, DALI</b> or <b>DMX</b> for <b>LED DRIVER</b>

### SOUND ABSORPTION - PART 1: MEET THRESHOLDS FOR REVERBERATION TIME + PART 2: IMPLEMENT SOUND REDUCING CEILINGS FEATURE S04

Sound absorbing spaces help alleviate undesirable noise, reduce stress, and increase comfort, productivity, and morale.

Part 1: All spaces except dwelling units meet the maximum Reverberation Time (60) thresholds in the table below.

Part 2: All spaces except dwelling units have ceiling treatment that meets the minimum Noise Reduction Coefficient NRC/  $\alpha_w$  values described below.

PART 1 - MEET THRESHOLDS FOR REVERBERATION TIME (1PT MAX)			
ROOM TYPE	SIZE	RT(60) (SECONDS)	HOW TO SPECIFY
Conference Rooms	N/A	CRI = 93 - 95	
Classrooms	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 0.6	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.5 to 0.8	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.6 to 1.0	
Lecture Halls	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 0.7	• Acoustic products in ALW's Harmonic Collection can contribute to meeting this WELL feature. Ensure to hire an acoustician to help specify products and layouts to meet the requirements of this WELL feature.
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.6 to 0.9	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.7 to 1.3	
Music Rehearsal Spaces	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 1.1	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	1.0 to 1.4	
Fitness Facilities	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	0.7 to 0.8	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.8 to 1.1	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	1.0 to 1.8	
PART 2 - IMPLEMENT SOUND REDUCING CEILINGS (1PT MAX)			
SPACE TYPE	NRC/ $\alpha_w$		HOW TO SPECIFY
Open Workspaces Enclosed Offices Dining Spaces	0.7 for at least 75% of available ceiling area		• Acoustic products in ALW's Harmonic Collection can contribute to meeting this WELL feature. Ensure to hire an acoustician to help specify products and layouts to meet the requirements of this WELL feature.
Conference Rooms Classrooms	0.7 for at least 80% of available ceiling area		

Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM**  
9 of 20



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-4'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**PERFORMANCE DETAILS**

OUTPUT	OPTIC TYPE	DELIVERED LUMENS/FT		EFFICACY (LM/W)		WATTS/FT <sup>15</sup>	CRI OPTIONS	CCT OPTIONS
		DIRECT	INDIRECT	DIRECT	INDIRECT			
MIN <sup>16</sup>	CR/S	350	370	113	119	3.1	80+ 90+	2700K (90CRI Only) 3000K 3500K 4000K 5000K
	CR/ASY	370	N/A	119	N/A			
	CR/BAT	350	350	113	113			
	CR/AG	370	N/A	119	N/A			
	BAT	N/A	440	N/A	142			
LOW <sup>16</sup>	CR/S	475	500	113	119	4.2		
	CR/ASY	500	N/A	119	N/A			
	CR/BAT	470	490	112	117			
	CR/AG	500	N/A	119	N/A			
	BAT	N/A	580	N/A	138			
MED <sup>16</sup>	CR/S	750	775	115	119	6.5		
	CR/ASY	775	N/A	119	N/A			
	CR/BAT	735	750	113	115			
	CR/AG	775	N/A	119	N/A			
	BAT	N/A	920	N/A	142			
HI <sup>16</sup>	CR/S	1030	1050	117	119	8.8		
	CR/ASY	1050	N/A	119	N/A			
	CR/BAT	1000	1030	114	117			
	CR/AG	1050	N/A	119	N/A			
	BAT	N/A	1250	N/A	142			
MAX <sup>16</sup>	CR/S	1250	1300	117	121	10.7		
	CR/ASY	1300	N/A	121	N/A			
	CR/BAT	1200	1250	112	117			
	CR/AG	1300	N/A	121	N/A			
	BAT	N/A	1525	N/A	143			
TUNE	CR/S	WW: 475, CW: 515	WW: 490, CW: 530	WW: 113, CW: 123	WW: 117, CW: 126	4.2/channel	90+	2700K - 6500K
	CR/ASY	WW: 490, CW: 530	N/A	WW: 117, CW: 126	N/A			
	CR/BAT	WW: 475, CW: 500	WW: 480, CW: 520	WW: 110, CW: 119	WW: 114, CW: 124			
	CR/AG	WW: 490, CW: 550	N/A	WW: 117, CW: 131	N/A			
	BAT	N/A	N/A	N/A	N/A			
RGB <sup>17</sup>	CR/S	140	150	28	30	5	N/A	N/A
	CR/ASY	140	N/A	28	N/A			
	CR/BAT	140	150	28	34			
	CR/AG	140	N/A	28	N/A			
	BAT	N/A	N/A	N/A	N/A			
RGB+W <sup>18</sup>	CR/S	RGB: 140, W: 220	RGB: 150, W: 325	RGB: 28, W: 44	RGB: 30, W: 65	5	80+ (White Chip)	3500K (White Chip)
	CR/ASY	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			
	CR/BAT	RGB: 140, W: 220	RGB: 150, W: 230	RGB: 28, W: 44	RGB: 30, W: 46			
	CR/AG	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			
	BAT	N/A	N/A	N/A	N/A			

<sup>15</sup>Lumens/Watt and Watts/ft have been calculated assuming a driver efficiency of 85%. Depending on field conditions, actual measured values may fluctuate by 5-8%.

<sup>16</sup>Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.

<sup>17</sup>Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue).

<sup>18</sup>Performance calculations are derived from the following LM-79 tests: 1) RGB LEDs illuminated, 2) RGB+W LEDs illuminated, 3) White LED only illuminated.



**Job Name:**  
DUTCHESS STADIUM  
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SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:****P200-4'**

MID23-74318

**TM-30-18 DETAILS (90 CRI LAMPING)**

CCT	CRI (Ra)	CRI (R9)	TM-30 Rf	TM-30 Rg	Duv
<b>2700K</b>	94	57	92	100	-0.0012
<b>3000K</b>	93	55	91	100	-0.0012
<b>3500K</b>	93	55	90	98	-0.0002
<b>4000K</b>	92	58	89	97	-0.0003

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



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Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-4'**

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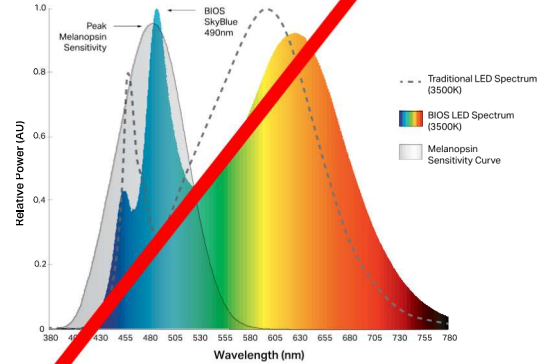


**BIOS OVERVIEW**



BIOS SkyBlue® technology is designed to provide the specific circadian stimulus required to improve overall sleep by featuring a distinct peak in the 'skyblue' spectral power at 490nm. Unlike traditional white LEDs, BIOS SkyBlue® makes it possible to achieve high EML (Equivalent Melanopic Lux) and Melanopic/Photopic ratios without harsh CCTs or high, glare-inducing light levels.

BIOS light engines are available in **Static** or **Dynamic** options for use with a variety of applications. In Static light engines, the SkyBlue 490nm signal always remains on while the fixture is powered. Dynamic options include a dynamic board and Bio-Dimmer module to allow the user to dim-out the SkyBlue 490nm signal during night time hours.



	BIOS STATIC (BIOS)	BIOS DYNAMIC + BIO-DIMMING™ (BIOSD)
<b>DESCRIPTION</b>	490nm SkyBlue light signal always remains on while the fixture is powered.	Dynamic light engine with Bio-Dimming add the ability to fine-tune and dim-out the 490nm SkyBlue signal during night time hours or as desired.
<b>TYPICAL APPLICATIONS</b>	Environments typically occupied only during daylight hours (6am-6pm) such as offices and schools.	Environments occupied for a 24-hour period such as hospitals, security facilities, behavioral health facilities, factories, etc.
<b>CONTROLS &amp; DIMMING*</b>	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS melanopic ratio remains constant as you dim down the light intensity.	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS SkyBlue® LED can be dimmed-out using a standard control/dimmer.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.

**BIOS LED LAMPING DETAILS (STATIC OR DYNAMIC)**

OUTPUT	DELIVERED LUMENS (LM/FT)		EFFICACY (LM/W)		WATTS (W/FT)	CRI
	DIRECT	INDIRECT	DIRECT	INDIRECT		
<b>MIN<sup>17</sup></b>	CR/S 350	370	CR/S 113	CR/S 119	3.1	82+
	CR/ASY 370	350	CR/ASY 119	CR/ASY 113		
	CR/BAT 350	400	CR/BAT 113	CR/BAT 142		
	CR/AG 370	-	CR/AG 119	CR/AG -		
<b>LOW<sup>17</sup></b>	475	500	113	119	4.2	
	500	490	119	117		
	470	580	112	138		
	500	-	119	-		
<b>MED<sup>17</sup></b>	775	775	115	119	6.5	
	775	750	119	115		
	735	920	113	142		
	775	-	119	-		
<b>HIGH<sup>17</sup></b>	1030	1050	117	119	8.8	
	1050	1030	119	117		
	1000	1250	114	142		
	1050	-	119	-		
<b>MAX<sup>17</sup></b>	1250	1300	117	121	10.7	
	1300	1250	121	117		
	1200	1525	112	143		
	1300	-	121	-		

**BIOS LED PERFORMANCE DETAILS**

CCT	CRI (Ra) <i>Static BIOS Dynamic BIOS</i>	CRI (R9) <i>Static BIOS Dynamic BIOS</i>	DAYTIME M/P RATIO <sup>20</sup> <i>Static BIOS Dynamic BIOS</i>	NIGHTTIME M/P RATIO <sup>21</sup> <i>Static BIOS Dynamic BIOS</i>	COI <sup>22</sup> <i>Static BIOS Dynamic BIOS</i>
<b>3000K</b>	82	94	0.70	0.70	3.0
	83	90	0.73	0.45	3.3
<b>3500K</b>	83	91	0.80	0.80	3.1
	83	90	0.84	0.50	3.1
<b>4000K</b>	83	91	0.90	0.90	3.1
	83	90	0.95	0.55	3.1

<sup>19</sup>Performance calculations are based on LM-79 test of BIOS 4000K, MAX output. MIN, LOW, MED and HIGH calculations are extrapolated values.

<sup>20</sup>Melanopic to photopic (M/P) ratios are used to help calculate equivalent melanopic lux (EML) values which is the metric used for circadian lighting in the WELL™ Building Standard.

<sup>21</sup>Static LED nighttime M/P ratios remain the same as daytime M/P ratios as BIOS SkyBlue® always remains at full output.

<sup>22</sup>BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.

Rev 033123

**SP2.5SA – SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM  
12 of 20**





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-4'**

MID23-74318

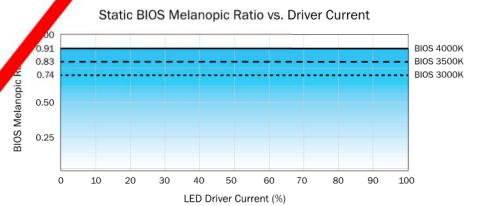
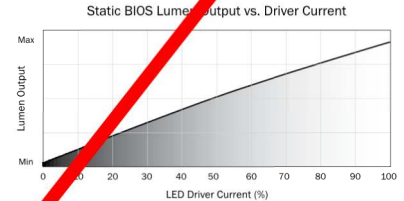
BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**BIOS STATIC DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	LIGHT OUTPUT* (BIOS SKYBLUE® + WHITE LED)		BIOS + White LED Intensity Dimming
100%* (Full On)	100%		
99% - 51%	Linear Dimming 99% - 51%		
50%	Linear Dimming 50%		
49% - 0%	Linear Dimming 49% - 0%		

BIOS SkyBlue® LED and White LED dim with a 1-to-1 ratio.



\*While melanopic ratio remains constant, dimming/reducing light output will have an overall impact on Equivalent Melanopic Lux (EML). That is because  $EML = \text{Vertical Lux} \times \text{melanopic ratio}$ . Therefore, if you reduce light levels by dimming the LEDs, you will reduce your effective EML, even when the melanopic ratio stays constant.

**BIOS DYNAMIC + BIO-DIMMING™ DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT	
100%* (Full On)	100%	100%	100%	Bio-Dimming
99% - 51%	100% - 0%	100%	100% - 90%	
50%	NO BIOS	100%	~90%	White LED Intensity Dimming
49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	

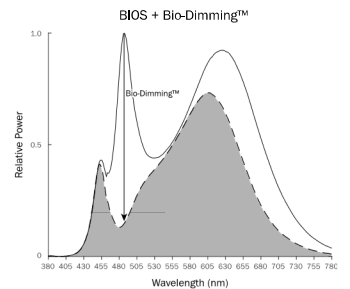
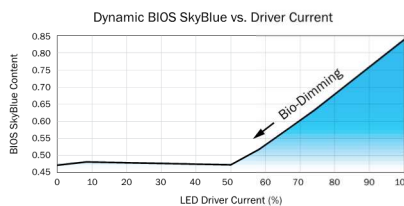
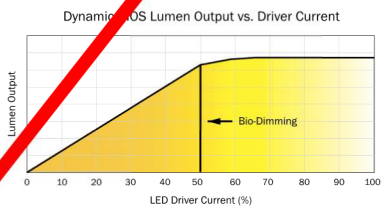
BIOS SkyBlue® maintained for maximum circadian impact.

Light output remains relatively constant.

BIOS SkyBlue® removed to provide minimal circadian impact.

White LED output dims linearly.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.



Rev 033123

**SP2.5SA - SPECIFICATIONS**  
**SUSPENDED**

**ALWUSA.COM**  
**13 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-4'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**DRIVERS**

PRODUCT CODE	DESCRIPTION
<b>N</b>	None. Choose when indirect lambing is not desired.
<b>V00</b>	0-10V dimming down to 0% (dim to off).
<b>V01</b>	0-10V dimming down to 1%.
<b>V05</b>	0-10V dimming down to 5% (Down to 10% for TUNE lambing).
<b>P01</b>	Driver supports both TRIAC Forward Phase 2-Wire and ELV Reverse Phase 3-Wire dimming controls.
<b>LDE1</b>	(LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
<b>ELDVO</b>	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)
<b>TSERIES</b>	Lutron T-Series Tunable White Class 2 LED Driver (For use with Lutron Quantum Control Systems)
<b>ELDDW</b>	eldoLED 0/10V dim-to-warm dimming down to 0% (specify with TUNE LED lambing. Driver will be programmed with LightShape dim-to-warm setting)
<b>DALI</b>	DALI flicker-free dimming down to 0%.
<b>DMX</b>	DMX flicker-free dimming down to 0%.
<b>POEM</b>	Molex CoreSync PoE LED Driver. Contact ALW to assist with your project.
<b>POEI</b>	IGOR PoE LED Driver. Contact ALW to assist with your project.
<b>POEN</b>	NuLEDS PoE LED Driver. Contact ALW to assist with your project.
<b>POE</b>	Specify a PoE driver of your choice. Fixture comes with low voltage leads and no LED driver. Contact ALW to assist with your project

\*Most drivers can be programmed to specific dimming levels if desired. Contact ALW for specific dimming level requests.  
ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

DRIVER/LED LAMPING COMPATIBILITY							
	STD	STD/BIOS	TUNE	RGB	RGB(W)	CA TITLE 24 JAB/JA10 <sup>23</sup>	IEEE P1789 & HD TV STUDIO <sup>24</sup>
<b>V00</b>	●	●	●			●	
<b>V01</b>	●	●	●			●	
<b>V05</b>	●	●	●			●	
<b>P01</b>	●	●				●	
<b>LDE1</b>	●	●				●	●
<b>ELDVO</b>	●	●	PER REQUEST			●	●
<b>TSERIES</b>			●			●	●
<b>ELDDW</b>	●		●			●	●
<b>DALI</b>	●	●	●			●	
<b>DMX</b>	●		●		●	PER REQUEST	PER REQUEST
<b>POEM</b>			PER REQUEST			●	●
<b>POEI</b>			PER REQUEST			●	●
<b>POEN</b>			PER REQUEST			●	●

- - Indicates compatibility
- \* Standard lambing (STD) - MIN/LOW/MED/HI
- <sup>23</sup> Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lambing with applicable LED drivers have the ability to conform to California Title 24 JAB and JA10 Appendices
- <sup>24</sup> The following drivers conform to IEEE P1789 Flicker Standard: IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**

**P200-4'**

MID23-74318

**SENSORS**

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

	PRODUCT CODE	DESCRIPTION	Location
	<b>N</b>	None. Choose when sensors are not desired.	-
<b>COOPER WAVELINX</b>	<b>WLNx/INT</b>	Wavelinx Wireless integral occ/daylight sensor (WaveLinx part: OEM-WAA)	Integral
	<b>WLNx</b>	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Remote
<b>ENLIGHTED™</b>	<b>ENLGHt/INT</b>	Enlighted integral connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5E-CL)	Integral
	<b>ENLGHt</b>	Enlighted® remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote
<b>LUTRON VIVE</b>	<b>VRF</b>	Lutron® Vive integral RF wireless fixture control (Lutron Part: DFCSJ-OEM-RF)	Integral
	<b>VDO</b>	Lutron® Vive integral RF wireless fixture control + daylight/occ sensor (Lutron Part: DFCSJ-OEM-OCC)	Integral
	<b>FCJS</b>	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote
	<b>FCJS/S</b>	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	Molex CoreSync PoE Integral Fixture-Mounted Sensor R - occ/daylight/temperature/humidity (Molex Part: 182091-1000)	Integral
	<b>MLX</b>	Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from	Remote
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	Fixture is built with nLight Wired integral components specified by agency. Contact ALW to review project details.	Integral
	<b>NLT</b>	Fixture is built to connect to nLight Wired remote components specified by agency. Contact ALW to review project details.	Remote
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	Fixture is built with nLight Air (Wireless) components specified by agency. Contact ALW to review project details.	Integral
	<b>NLTAIR</b>	Fixture is built to connect to nLight Air (Wireless) remote components specified by agency. Contact ALW to review project details.	Remote
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	Acuity 0-10VDC Integral occ/daylight sensor (Acuity Part: MSD 7 ADC WH) Automated Dimming Functionality Only. Manual Dimming not available. Customer to set sensor functionality in the field. Lowest dim level depends on driver.	Integral
	<b>OS/INT/HV</b>	Legrand Wattstopper <b>High Voltage</b> Integral occ/daylight on/off sensor (Part: FS-355) On/Off or Manual Dimming Functionality Only (based on occupancy and daylight). Connect fixture 0/10V wires to wall dimmer in the field. No Automated Dimming available.	Integral
	<b>OS/PH/HV</b>	Hubbell WSP <b>High Voltage</b> 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDS-UNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Remote

\*All connected lighting sensor systems must be programmed in the field by an electrical commissioner familiar with the system. Refer to the 'Sensor Compatibility' and 'Driver/Sensor Compatibility' charts to specify compatible sensors, LED lamping, and LED driver systems.

Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM  
15 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-4'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**SENSORS CONT'D**

SENSOR COMPATIBILITY								
PRODUCT CODE		SENSOR TYPE	MAX MT HT	CA TITLE 24	STD*	TUNE	RGB	RGB(W)
COOPER WAVELINX	WLNx/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	WLNx		15 ft	●	●			
ENLIGHTED™	ENLGHt/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●	CUSTOM REQUEST		
	ENLGHt	OCCUPANCY/PHOTOCELL	40 ft	●	●	CUSTOM REQUEST		
LUTRON VIVE	VRF	WIRELESS CONTROL	12 ft	●	●			
	VDO	OCCUPANCY/PHOTOCELL	12 ft	●	●			
	FCJS	WIRELESS CONTROL	12 ft	●	●			
	FCJS/S/	OCCUPANCY/PHOTOCELL	12 ft	●	●			
MOLEX POE CORESYNC	MLX/INT	OCCUPANCY/PHOTOCELL TEMPERATURE/HUMIDITY	16 ft	●	●			
	MLX		16 ft	●	●	●	CUSTOM REQUEST	CUSTOM REQUEST
NLIGHT WIRED®	NLT/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	NLT		15 ft	●	●			
NLIGHT WIRELESS®	NLTAIR/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	NLTAIR		15 ft (average)	●	●			
VALUE SENSORS	OS/PH/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	OS/INT/HV	OCCUPANCY/PHOTOCELL	15 ft	●	●	■	■	■
	OS/PH/HV	OCCUPANCY/PHOTOCELL	45 ft	●	●	■	■	■

● - Indicates compatibility    ■ - On/off sensor functionality only  
\*Standard Lamping (STD) - M/Low/MED/Hi



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SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
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**SENSORS (CONT'D)**

DRIVER/SENSOR COMPATIBILITY									
	WLNX/INT	WLNX	ENLGH/INT	ENLGH	VRF	VDO	FCJS	FCJS/S/	MLX/INT
V00	●	●					●	●	
V01	●	●					●	●	
V05	●	●					●	●	
P01									
LDE1					●	●	●	●	
ELDV0									
TSERIES									
ELDDW									
DALI			●	●	●	●			
DMX									
POEM									●

- - Indicates compatibility
- ▲ - Fixture can have automated dimming via sensor OR on/off functionality and manual dimming
- - On/off sensor functionality only

DRIVER/SENSOR COMPATIBILITY CONT'D									
	MLX	NLT/INT	NLT	NLTAIR/INT	NLTAIR	OS/PH/INT	OS/INT/HV	OS/PH/HV	NO SENSOR
V00						●	■	▲	●
V01						●	■	▲	●
V05						●	■	▲	●
P01							■	■	●
LDE1		●	●	●	●	●	■	▲	●
ELDV0							■	■	●
TSERIES							■	■	●
ELDDW							■	■	●
DALI							■	■	●
DMX							■	■	●
POEM	●								●
POEI	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POEN	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE	Sensor types will depend on the PoE system configuration. Contact ALW for details.								



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
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FT. ADVISE COLOR

**Type:**  
**P200-4'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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SHALL MATCH TURF BAFFLE FINISH.



**PHOTOMETRICS**

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC) <sup>25</sup> (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
CR/ASY <sup>26</sup>		2 - 2.5 ft RECOMMENDED DISTANCE FROM WALL		1.14 1.30	1328	1300
CR/BAT		6 ft	18.6	1.22 1.7	801	1200
		8 ft	10.4			
		10 ft	6.7			
		12 ft	5.0			
		14 ft	3.4			
		16 ft	2.6			
CR/AG		6 ft	39.6	.8 1.12	1424.7	1300
		8 ft	22.3			
		10 ft	14.2			
		12 ft	9.9			
		14 ft	7.3			
		16 ft	5.6			
CR/S		6 ft	25.8	1.16 1.2	927	1250
		8 ft	14.5			
		10 ft	9.3			
		12 ft	6.4			
		14 ft	4.7			
		16 ft	3.6			
BAT		0.5 ft	38	1.28 3.14	1235	1525
		1 ft	34.5			
		2 ft	27.8			
		3 ft	22.2			
		4 ft	17.6			
		5 ft	13.5			

\*Photometric calculations based on MAX 4000K 80 CRI fixture combination. Actual results may vary in the field.  
 For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#).  
<sup>25</sup>Spacing criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface.  
 Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).  
<sup>26</sup>Recommended distance from wall calculated at 10ft mounting height  
<sup>27</sup>BAT mounting height for BAT refers to distance from ceiling since BAT optic is only offered in indirect output.

**Job Name:**

DUTCHESS STADIUM  
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**Catalog Number:**

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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:****P200-4'**

MID23-74318



**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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**ADDITIONAL OPTIONS & SPECIFICATIONS****LED PERFORMANCE**

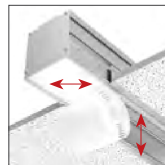
> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

**HOUSING**

100% recyclable, extruded architectural grade 6063 aluminum with a 0.09" minimum wall thickness.

**CONTROLROLL LENS OPTICS**

The optically engineered ControlRoll lens provides smooth, uniform, and seamless illumination for linear lengths of 250' while dynamically controlling output and reducing glare. The ControlRoll lens rolls out and snaps into the housing channel for easy installation.

**INDIRECT BATWING OPTIC**

A 120° rigid batwing optic can be specified for indirect lighting to achieve wide distributions of light across ceilings and to eliminate hotspots.

**SAFETY & REGULATORY**

Fixtures specified with 90CRI, 2700K, 3000K, 3500K, and 4000K lighting with applicable LED drivers have the ability to conform to **California Title 24 JAS and JASO** Appendices. EidoLED drivers can conform to IEEE P1789 Flicker Standard: IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers.

Contact [ALW customer support](#) today and we can help you with your project requirements..

ETL Listed (U.S. & Canada). Suitable for dry or damp locations.  
*For integral driver*, Conforms to UL std. 1598 luminaires,  
*For remote driver*, Conforms to UL std. 2018 luminaires.  
Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2

**WARRANTY**

Limited 5-year warranty. Details: [alwusa.com/warranty](http://alwusa.com/warranty)

**OPERATING TEMPERATURE**

Luminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from -4°F to 122°F (-20°C to 50°C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

**POWER CABLES**

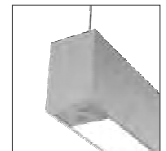
Power cables come standard in a transparent sheathing to match steel aircraft suspension cables. Please contact customer support if custom cables are required for your application. Power cables cannot be swapped in the field as it will void the ETL Safety Listing and Product Warranty.

**WEIGHT**

Approximately 3.9lbs. per linear foot. Weight may vary depending on additional options selected.

**CONTROLS, SENSORS, & LED DRIVER**

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, nLight, Cooper Wavelinx, EidoLED, Molex PoE, NuLEDs PoE, Igor PoE, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact [ALW customer support](#) today so we can review your requirements.

**WOOD VENEER**

Most ALW fixture configurations are available with **real wood veneer** as a custom request. Contact [ALW customer support](#) so we can help you with your custom wood veneer request.

Rev 033123

**SP2.5SA – SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM**  
19 of 20





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-4'**

MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



**ADDITIONAL OPTIONS & SPECIFICATIONS CONT'D**

**WOOD VENEER**

Most ALW fixture configurations are available with real wood veneer as a custom request. Contact ALW customer support so we can help you with your custom wood veneer request.

**ACOUSTICS**

Material: 0.5" (12mm) PET polyester fibers. Acoustic sound absorbers are 100% recyclable at end of life use.  
NRC Rating: Our acoustics as a 2D absorber have a Noise Reduction Coefficient of 85%. Full test reports of common layouts for 3D absorbers including NRC and Sabin values will be available shortly.  
Fire Rating: Conforms to ASTM E84 Class A. Also conforms to EN13501-1 Class B.

**CARE**

PET acoustics: Remove dust with compressed air, a vacuum or lint roller.  
Aluminum & polymer components: Remove dust and debris with clean, dry or damp lint-free cloth.



**Job Name:**  
DUTCHESS STADIUM  
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**Catalog Number:**  
SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-5'**  
MID23-74318

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submit - The felt will not  
ent baffles as scheduled  
uments. TURF baffles  
option.



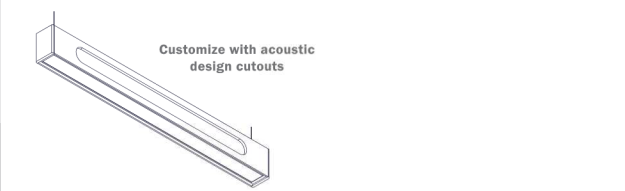
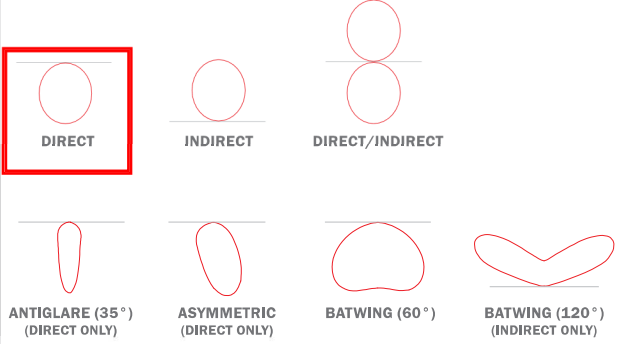
**SPECIFICATIONS**

<b>PROFILE</b>	2.5" Aperture, 3.93" total width
<b>SIZES</b>	2ft - 8ft sections
<b>LED OUTPUT</b>	350lm/ft - 1,525lm/ft
<b>CCT/CRI</b>	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W
<b>DIMMING/ DRIVER</b>	Integral and Remote Driver (0-10V, DALI, DMX, eldoLED, Lutron®, PoE (Moxel, Igo, NuLEDs). Dimming to 0% for select models.
<b>POWER</b>	3.1W - 10.7W per ft
<b>INPUT</b>	120VAC, 277VAC, or 347VAC
<b>OPTICS</b>	Control Optics - Continuous lens up to 250ft. Direct/indirect. Lambertian, Asymmetric, Batwing and Antiglare/Grazer optics available.
<b>FINISHES</b>	10 standard acoustic colors. 18 standard finishes at no extra charge. Custom finishes available.
<b>MATERIAL</b>	6063-T6 Extruded Aluminum. 0.5" PET polyester felt.
<b>ENVIRONMENT</b>	Dry or damp locations

**WELL/UGR** See pages 8-9 for recommended options that contribute  
to meeting the WELL Building Standard™. UGR values  
available under 'Glare Control' on page 8.

\*Safety and Performance information available on last two pages. Output  
and other specifications available on pages 10-11.

**DISTRIBUTIONS & PROFILES**



Not to scale. Dimensions are nominal. Consult factory for CAD drawing



Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM  
1 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/FT. ADVISE COLOR

**Type:**  
**P200-5'**

MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE TURF LIGHTING MATCHING BAFFLE SYSTEM AS SPECIFIED. P200 & P201 FIXTURES SHALL MATCH TURF BAFFLE FINISH.**



**PRODUCT SPECIFICATION SHEET**

1	2	4a	4b	4c	5	6	7a	7b	7c	8	9	10	11	12	13	14
1.5a	1.5b	1.5c														

**EXAMPLE: SP2.5SA - CAP/M - S5 - MED/90/3500 - V00 - CR/S - LOW/90/3500 - V00 - CR/S - ACW - DCSTM**

**GW - GW - UNV - EMB/1 - FCJS/1 - SB**

<b>1. BASE MODEL</b> <b>SP2.5SA</b> 2.5" aperture, 3.93" total width Suspended Acoustic	<b>2. END CAP*</b> (CHOOSE 1) <b>CAP/M</b> Metal End Cap <b>CAP/A</b> Acoustic End Cap <small>*Add an aesthetic touch with a brushed or powder coated end cap. Metal end caps are not available for indirect only lampping option.</small>	<b>3. NOMINAL LENGTH*</b> (ENTER LENGTH IN FEET) <b>5'</b> Individual/Straight Run section from 2-8ft <small>(enter length in product code above, ex. S5) *Lengths are nominal. To ensure lengths match the exact lengths of other fixtures and/or sound baffles on a project it's recommended to include all products on a single purchase order, provide RCP (Reflective Ceiling Plan), and any additional details for ALW to review.</small>	<b>4. LED LAMPING - DIRECT*</b> (CHOOSE 1 FOR EACH) <b>A. OUTPUT*</b> <b>B. CRI<sup>2</sup></b> <b>C. CCT<sup>2</sup></b> <b>MIN</b> (350 lm/ft) <b>NO CRI/CCT<sup>3</sup></b> <b>2700K<sup>4</sup></b> <b>LOW</b> (475 lm/ft) <b>80</b> <b>3000K</b> <b>MED</b> (750 lm/ft) <b>90</b> <b>3500K</b> <b>HI</b> (1030 lm/ft) <b>BIOS<sup>5</sup></b> <b>4000K</b> <b>MAX</b> (1250 lm/ft) <b>(STATIC BIOS)</b> <b>RGB</b> (140 lm/ft) <b>BIOSD<sup>6</sup></b> (DYNAMIC BIOS) <b>TUNE</b> (2700K-6500K, 90 CRI, 475/515 lm/ft) <b>RGBW</b> (3500K, White, 80 CRI, 140/220 lm/ft) <b>CTSM</b> _____ <small>*Enter lumens in product code above, Ex. 0100=100lm/ft</small>
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<b>5. DRIVER - DIRECT*</b> (CHOOSE 1) QS <b>N</b> (None) QS <b>V00</b> (dim to off) QS <b>V01</b> (0-10V, dim to 1%) QS <b>V05</b> (0-10V, dim to 5%) <b>LDE1</b> (Lutron ECOSYS1, 0-10V, dim to 1%) <b>P01</b> (ELV/TRIAC phase dim to 1%) <b>TSERIES</b> (Lutron tuneable white) <b>ELDVO</b> (eldoLED 0-10V dim to 0%) <b>ELDDW</b> (eldoLED dim to warm) <b>DALI</b> (DALI, dim to 0%) <b>DMX</b> (DMX, dim to 0%) <b>POEM</b> (POE Molex) <b>POEI</b> (POE IGOR) <b>POEN</b> (POE Nuleds) <b>POE</b> (POE Ready) <small>*See 'Driver', 'Sensor' and lampping charts for driver details and sensor compatibility. *Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice.</small>	<b>6. LENS - DIRECT</b> <b>N</b> None. <b>CR/S</b> ControlRoll lens with diffused, lambertian distribution <b>CR/ASY</b> ControlRoll lens with asymmetric/wall wash distribution (peak intensity 60°) <b>CR/BAT</b> ControlRoll lens with batwing/floor distribution (peak intensity 60°) <b>CR/AG</b> ControlRoll lens with antiglare/grazer optics (35° distribution) <small>*Select when direct lampping is not desired. The lens will be substituted with an aluminum lid with same finish as fixture. *Not available for TUNE, RGB, RGBW, BIOS, or BIOSD lampping.</small>	<b>7. LED LAMPING - INDIRECT*</b> (CHOOSE 1 FOR EA.) <b>N</b> None. Select when indirect lampping is not desired. Lens substituted with aluminum lid. Must select direct lampping. <b>A. OUTPUT</b> <b>B. CRI<sup>2</sup></b> <b>C. CCT<sup>2</sup></b> <b>MIN</b> (370 lm/ft) <b>NO CRI/CCT<sup>3</sup></b> <b>2700K<sup>4</sup></b> <b>LOW</b> (500 lm/ft) <b>80</b> <b>3000K</b> <b>MED</b> (775 lm/ft) <b>90</b> <b>3500K</b> <b>HI</b> (1050 lm/ft) <b>BIOS<sup>5</sup></b> <b>4000K</b> <b>MAX</b> (1300 lm/ft) <b>(STATIC BIOS)</b> <b>RGB</b> (150 lm/ft) <b>BIOSD<sup>6</sup></b> (DYNAMIC BIOS) <b>TUNE</b> (2700K-6500K, 90 CRI, 490/530 lm/ft) <b>RGBW</b> (3500K, White, 80 CRI, 150/325 lm/ft) <b>CTSM</b> _____ <small>*Enter lumens in product code above, Ex. 0100=100lm/ft</small>	<b>8. DRIVER - INDIRECT*</b> (CHOOSE 1) QS <b>N</b> (None) QS <b>V00</b> (dim to off) QS <b>V01</b> (0-10V, dim to 1%) QS <b>V05</b> (0-10V, dim to 5%) <b>LDE1</b> (Lutron ECOSYS1, 0-10V, dim to 1%) <b>P01</b> (ELV/TRIAC phase dim to 1%) <b>TSERIES</b> (Lutron tuneable white) <b>ELDVO</b> (eldoLED 0-10V dim to 0%) <b>ELDDW</b> (eldoLED dim to warm) <b>DALI</b> (DALI, dim to 0%) <b>DMX</b> (DMX, dim to 0%) <b>POEM</b> (POE Molex) <b>POEI</b> (POE IGOR) <b>POEN</b> (POE Nuleds) <b>POE</b> (POE Ready) <small>*See 'Driver', 'Sensor' and lampping charts for driver details and sensor compatibility. *Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice.</small>
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<b>9. LENS - INDIRECT</b> (CHOOSE 1) <b>N</b> None. <b>CR/S</b> ControlRoll lens with diffused, lambertian distribution <b>CR/BAT</b> ControlRoll lens with batwing/floor distribution (peak intensity 60°) <b>BAT<sup>11</sup></b> Rigid batwing optic (peak intensity 120°) <small><sup>10</sup>Lens will be substituted with an aluminum lid with same finish as fixture. <sup>11</sup>Not available for TUNE, RGB, RGBW, BIOS, or BIOSD</small>	<b>10. ACOUSTIC FINISH*</b> (CHOOSE 1) <b>ACW</b> Crystal White <b>AMW</b> Marble White <b>AHG</b> Heather Gray <b>ACG</b> Charcoal Gray <b>AJB</b> Jet Black <b>AJW</b> Ivory White <b>AAG</b> Aloe Green <b>ATO</b> Titan Orange <b>ASR</b> Scarlet Red <b>AMB</b> Midnight Blue <small>*See page 7 for larger swatches and additional information</small>	<b>11. ACOUSTIC DESIGN</b> (CHOOSE 1) <b>N</b> None, Choose for a solid acoustic insert. <b>DCSTM</b> Custom Design (See template on page 5) <b>N= Solid Acoustic</b> <b>DCSTM= Custom Design Cutout</b>	<b>12. FIXTURE FINISH*</b> (CHOOSE 1) <b>STANDARD FINISHES</b> <b>AL<sup>12</sup></b> Anodized Aluminum <b>SW</b> Satin White <b>SB</b> Satin Black <small>See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze)</small> <b>SPECIAL ORDER FINISHES*</b> <b>RAL</b> Specify RAL Classic Color (Ex: RAL 3003) - <b>CAT</b> Specify Catalog Colors <b>CCM</b> Custom Color Match <small>*Manually type in the finish code for special order finishes. <sup>12</sup>Unless specified otherwise, Anodized Aluminum finish is provided by default for Solid Acoustic Designs. If an Acoustic Design Cutout (DCSTM) is desired, specify any other finish.</small>
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**ADVISE**

CONTINUES ON NEXT PAGE

**SP2.5SA - SPECIFICATIONS SUSPENDED**

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2 of 20



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-5'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



**PRODUCT SPECIFICATION SHEET CONT'D**

13. FINISH - END CAP (CHOOSE 1)	14. VOLTAGE (CHOOSE 1)	15a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)
<b>N<sup>13</sup></b> None.	<b>UNV</b> Universal Voltage (120VAC-277VAC) <b>347</b> 347 Volt (Driver options may be limited. Not available with EMB)	<b>EMB/_</b> <sup>14</sup> Emergency Battery (indicate QTY – each battery powers 4ft. section @ 1492lm. Not available in 347 V)  <b>EMC/_</b> <sup>14</sup> Emergency Circuit ( indicate QTY of 4ft sections to be illuminated by emergency circuit)
<p><b>STANDARD FINISHES</b></p> <p><b>LB</b> <input type="checkbox"/> Light Brushed Aluminum <b>SW</b> <input type="checkbox"/> Satin White <b>SB</b> <input checked="" type="checkbox"/> Satin Black</p> <p>— See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze)</p> <p><b>SPECIAL ORDER FINISHES*</b></p> <p><b>RAL</b>____ Specify RAL Classic Color (Ex: RAL 3003) - <b>CAT</b>____ Specify Catalog Colors <b>CCM</b>____ Custom Color Match</p> <p><small>*Manually type in the finish code for special order finishes.</small></p> <p><b>13</b> Select when specifying acoustic end cap.</p>		<p><small><sup>14</sup>For fixtures under 4ft in length, entire fixture will be illuminated with a proportional lumen output. Consult ALW for more details.</small></p>

15b. SENSOR OPTIONS* (OPTIONAL, CHOOSE 1)	15c. ADDITIONAL OPTIONS (OPTIONAL)
<p><b>N</b> (None)</p> <p><b>WLN</b>X/INT/___ (Cooper Wavelinx, integral) <b>WLN</b>X/_ (Cooper Wavelinx, remote) <b>ENL</b>GHT/___ (Enlighted, remote) <b>ENL</b>GHT/INT/___ (Enlighted, integral) <b>VRF</b>/___ (Lutron Vive, integral) <b>VDO</b>/___ (Lutron Vive, integral+ occ/daylight sensor) <b>FCJS</b>/___ (Lutron, remote) <b>FCJS</b>/S/___ (Lutron, remote + occ/daylight sensor) <b>MLX</b>/INT/___ (Molex POE, integral)</p> <p><b>MLX</b> (Molex POE, remote) <b>NLT</b>/INT/___ (nLight wired, integral occ/daylight sensor) <b>NLT</b> (nLight wired remote connection) <b>NLTAIR</b>/INT/___ (nLight AIR, integral) <b>NLTAIR</b> (nLight AIR, remote connection) <b>OS/PH</b>/INT/___ (Acuity 0-10V, integral occ/daylight sensor) <b>OS</b>/INT/HV/___ (Legrand Workstopper High Voltage integral occ/daylight sensor) <b>OS/PH</b>/HV/___ (Hubbell WASP remote occ/daylight sensor)</p> <p><b>SB</b> Seismic Bracing</p> <p><small>*Quickship availability on occupancy and photocell/daylight sensors may vary, Contact ALW for more information. Default quantity is 1 sensor per 8ft. type alternate quantity into product code above if desired. See sensor descriptions available on page 15. Not all sensors are compatible with all drivers. See "Driver", "Sensor" and lamping charts for driver details and sensor compatibility.</small></p>	



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-5'**

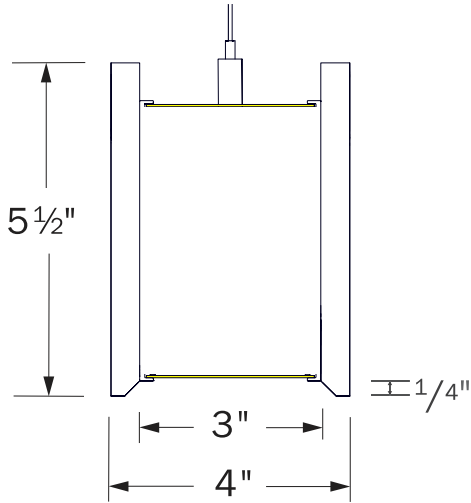
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

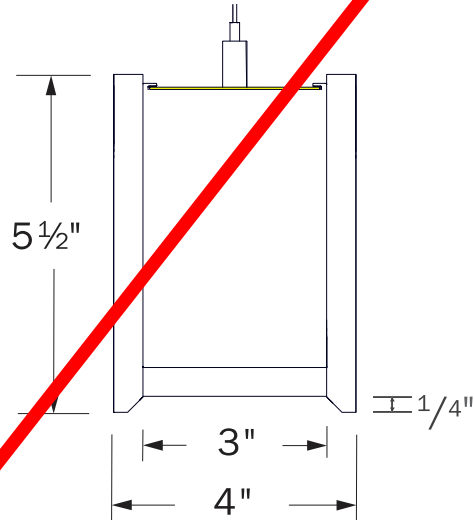


**MECHANICAL DIAGRAMS**

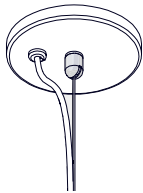
**DIRECT OR DIRECT/INDIRECT**



**INDIRECT ONLY**

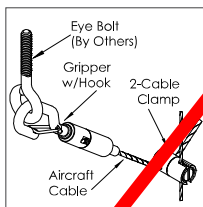


**SUSPENSION MOUNTING OPTIONS**



**CEILING HARDWARE**

- 4.5" canopy per power feed location. Canopy finish is always white. Contact ALW for alternate color.
- Bullet mount.
- 8' aircraft cable
- 2" canopy (for use with T-bar mounting) per suspension point



**SEISMIC BRACING (SB)**

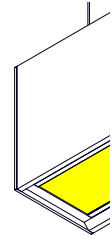
Add-on hardware includes cable gripper with hook, 2-cable clamp and specified length of aircraft cable per suspension point.

**ACOUSTIC END CAP**



Available with Direct, Indirect, or Direct/Indirect Lamping. When Indirect Only is specified an acoustic lid will be installed on the direct lamping side.

**METAL END CAP**



Available with Direct or Direct/Indirect Lamping. Metal end caps are not available for Indirect Only Lamping.



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

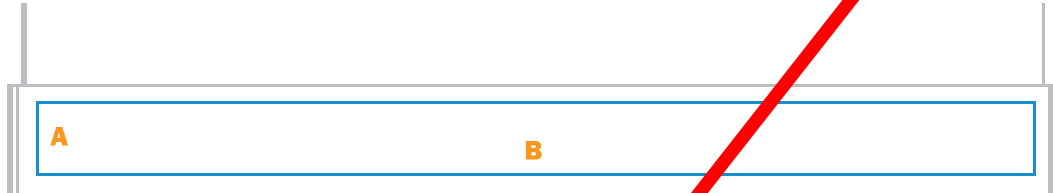
**Type:**  
**P200-5'**  
MID23-74318



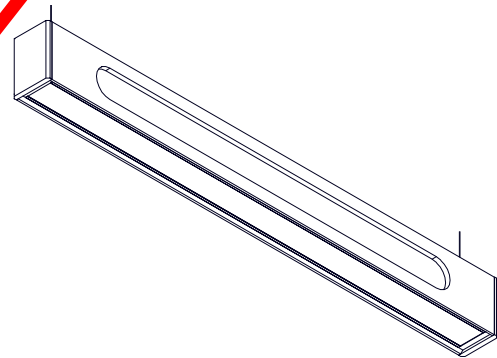
**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

**CUSTOM ACOUSTIC PATTERNS**

Choose from a solid sound absorbing baffle or create your own custom designs by following the instructions and template guidelines below. Gray areas indicate templates for acoustic pattern cutouts.



DIMENSION	BASE MODEL	CUT OUT AREA
A	SP2.5SA - 5.5" height	3.5"
	S2 - 2' (24") length	22"
B	S3 - 3' (36") length	34"
	S4 - 4' (48") length	46"
	S5 - 5' (60") length	58"
	S6 - 6' (72") length	70"
	S7 - 7' (84") length	82"
	S8 - 8' (96") length	94"



**HOW TO SUBMIT YOUR CUSTOM ACOUSTIC PATTERN?**

- 1. DOWNLOAD THE ACOUSTIC CUSTOM PATTERN .ZIP FILE ON THE PRODUCT PAGE**  
Open the appropriate .ai (Adobe Illustrator) or CAD .dxf file.
- 2. INPUT YOUR DESIGN WITHIN THE TEMPLATE AREA.**  
Template area will be marked with a dashed perimeter.
- 3. SAVE YOUR FILE INCLUDE THE PROJECT NAME AND OTHER SUPPORTING INFO AT THE END OF THE FILE NAME.**  
For example, "SP2.5SA Custom Acoustic Design Template - Project ALW".
- 4. SUBMIT FOR AS BELOW TO ALW FOR REVIEW.**
  1. Acoustic Design Template File
  2. Product Code and Quantities





**Job Name:**  
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**Catalog Number:**  
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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-5'**  
MID23-74318

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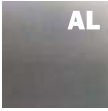


**STANDARD FINISHES**

Standard finishes are available at no additional charge.


**ALUMINUM**

**AL**



Anodized Aluminum  
\* Only for Fixture finish

**LB**







Light Brushed Aluminum  
\* Only for End Cap finish

**BASIC POWDER COAT**

<b>GW</b>  Gloss White	<b>SW</b>  Satin White	<b>AW</b>  Antimicrobial Satin White	<b>TW</b>  Textured Matte White	<b>TB</b>  Textured Matte Black
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**METALLIC POWDER COAT**

<b>SG</b>  Silver Gray	<b>CG</b>  Charcoal Gray	<b>CU</b>  Copper	<b>BR</b>  Brass
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**SATIN ANODIZED EFFECT POWDER COAT**

<b>CS</b>  Clear Silver	<b>OB</b>  Oil-Rubbed Bronze	<b>DB</b>  Dark Bronze	<b>SB</b>  Satin Black
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**GLOSS POWDER COAT (80-95% GLOSS)**

<b>GO</b>  Orange RAL 2003	<b>GR</b>  Red RAL 3020	<b>GM</b>  Magenta RAL 4010	<b>GB</b>  Blue RAL 5015
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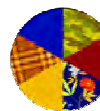
Contact ALW Quotes for sample paint finish swatches.

**SPECIAL ORDER FINISHES\***



**RAL CLASSIC COLORS (80-95% GLOSS): RAL\_ \_ \_ \_**

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003). See [www.alwusa.com/finishes](http://www.alwusa.com/finishes)



**CUSTOM COLOR MATCH: CCM\_ \_ \_ \_**

Custom powder coat color matching is available for a premium setup fee. Consult [ALW](http://www.alwusa.com) for additional information.



**CATALOG COLORS: CAT\_ \_ \_ \_**

The complete range of powder coat colors from [Tiger Drylac](#) and [TCL](#) catalogs are available for a minimum setup fee. Consult ALW for a catalog color you would like to specify.

\*An individual setup fee will apply to each unique Special Order Finish per purchase order.  
(ex: RAL 5008 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)

\*Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying)





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(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-5'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



**ACOUSTIC FINISHES**

**ACOUSTIC COLORS & INFORMATION** **ADVISE COLOR**

The Harmonic Collection features 10 acoustic material colors comprised of ~0.5" (12mm) PET polyester fibers, specially designed for premium sound absorption. ALW's PET acoustics as a 2D absorber have a NRC (Noise Reduction Coefficient) of 85%. Each panel is precision-cut to size using our CNC-cutting process, enabling a wealth of design options from beveled edges to custom cutouts. All panels conform to ASTM E84 Class A and EN13501-1 Class B fire ratings.



**COMPANION ACOUSTIC COLORS & RAL FINISHES**

The chart below outlines suggested RAL finishes to complement the acoustic colors above. With exception to ALW Satin Black and Satin White these RAL suggestions are not standard paint finish offerings. See next page for ALW's full paint finish catalog.

ACOUSTIC COLOR	COMPANION RAL FINISHES	ACOUSTIC COLOR	COMPANION RAL FINISHES
Crystal White	ALW Satin Black (SB) ALW Satin White (SW)	Ivory White	ALW Satin Black (SB) ALW Satin White (SW)
Marble White	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Aloe Green	RAL 6025 - Fern Green (slightly darker shade than acoustic) RAL 7013 - Brown Grey ALW Satin Black (SB) ALW Satin White (SW)
Heather Gray	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Titan Orange	RAL 2011 - Deep Orange RAL 5003 - Sapphire Blue RAL 5008 - Grey Blue RAL 8011 - Nut Brow RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Charcoal Gray	RAL 7021 - Black Grey RAL 7024 - Graphite Grey ALW Satin Black (SB) ALW Satin White (SW)	Scarlet Red	RAL 3031 - Orient Red RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Jet Black	ALW Satin Black (SB) ALW Satin White (SW)	Midnight Blue	RAL 5002 - Ultramarine Blue RAL 2011 - Deep Orange RAL 4010 - Magenta RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**

**P200-5'**

MID23-74318



### SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™

ALW is committed to providing the highest quality luminaires for a multitude of applications, with many versatile lighting solutions that contribute to satisfying the WELL Building Standard. Below is a quick guide to assist you in specifying appropriate product configurations for WELL features. Links to official WELL standards can be found [here](#).

### CIRCADIAN LIGHTING DESIGN FEATURE L03

The Circadian Lighting Design feature requires projects to provide users with appropriate exposure to light for maintaining circadian health and aligning the circadian rhythm with the day-night cycle.

To conform to these requirements, the project must meet one of the following 4 light level options (a, b, c, or d) below. These light levels are measured on the vertical plane at eye level of the occupant. The light levels are achieved at least between the hours of 9 a.m. and 1 p.m. and may be lowered after 8 p.m. at night.

DESIGNING WITH ELECTRIC LIGHT ONLY	DESIGNING WITH BOTH ELECTRIC LIGHT & DAYLIGHT	POINTS
a. At least 150 EML [136 melanopic equivalent daylight D65]	b. The project achieves at least 120 EML [109 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	1
c. At least 240 EML [218 melanopic equivalent daylight D65]	d. The project achieves at least 180 EML [163 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	3

Choose from a BIOS Static or BIOS Dynamic light engine to assist in a healthy, circadian lighting design. CCT, CRI, Luminous Flux Multipliers, and Melanopic Ratios are shown below for easy specification.

CIRCADIAN LIGHTING DESIGN (3PT MAX)	BIOS STATIC (BIOS)			BIOS DYNAMIC (BIOSD)			HOW TO SPECIFY
<b>CCT</b>	3000K	3500K	4000K	3000K	3500K	4000K	1. Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b> 2. Select the appropriate Lumen <b>OUTPUT</b> 3. Select the appropriate <b>CCT</b>
<b>CRI / R9</b>	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	
<b>LUMINOUS FLUX MULTIPLIER</b>	0.95	0.98	1.00	0.95	0.98	1.00	See BIOS LED Lamping and Performance Details at the back of this spec sheet for lumen outputs, COI index values, and other additional information.
<b>MELANOPIC RATIO (R)*</b>	0.70	0.80	0.90	0.74	0.83	0.95	

### GLARE CONTROL FEATURE L04

Glare is defined as excessive brightness of a light-source, excessive brightness-contrasts and excessive quantities of light. Glare has been associated with a host of health issues that range from visual discomfort and eye fatigue to headaches and migraines.

To conform to Glare Control requirements, each luminaire must meet one of the following options (a, b, or d) for regularly occupied spaces.

GLARE CONTROL CRITERIA (3PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. Indirect (100% emission above horizontal)	✓	100%	1. Select <b>N</b> (None) for <b>LED LAMPING - DIRECT</b> 2. Select <b>any of the options</b> for <b>LED LAMPING - INDIRECT</b>
b. Unified Glare Rating (UGR)*	✓	14.67 @ 16ft (MAX Output) 12.63 @ 20ft (MAX Output)	1. Select <b>ANY</b> output for <b>LED LAMPING - DIRECT</b> 2. Select <b>CR/S</b> (ControlRoll Diffused Lens) or <b>CR/AG</b> (ControlRoll Antiglare Lens) for <b>LENS</b>
c. Shielding Angle	No	-	-
d. Max. Luminance (45°-90°) Max. Intensity (45°-90°)	✓	4668 cd/m <sup>2</sup> @ MED Output 312.21 cd @ MED Output	1. Select an output of <b>MIN</b> or <b>MED</b> for <b>LED LAMPING - DIRECT</b> 2. Select <b>CR/AG</b> (ControlRoll Antiglare Lens) for <b>LENS</b>

\*Advertised UGR values are averages and were calculated in AGI32 using the following method: 1) A 5.4m x 3.6m room was created and fixtures were spaced 2m apart center-to-center. Calculations were performed at 16ft. and 20ft.

Rev 033123

**SP2.5SA - SPECIFICATIONS**  
**SUSPENDED**

**ALWUSA.COM**  
**8 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**

**P200-5'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™ (CONTINUED)

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

### ELECTRIC LIGHT QUALITY - PART 1: COLOR RENDERING QUALITY + PART 2: FLICKER FEATURE L07

Using light sources that have characteristics similar to daylight, including high color rendering and minimal flicker can improve comfort and well-being of users in a space and contribute to creating a healthy environment.

Part 1: Each luminaire must meet one of the following requirements (a or b) for regularly occupied spaces.

Part 2: Each luminaire must meet the IEEE 1789-2015 Standard Recommended Practice to manage flicker.

PART 1 - ENSURE COLOR RENDERING QUALITY (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. CRI > 90	✓	CRI = 93 - 95	• Select <b>90</b> (90CRI) for <b>LED LAMPING</b>
b. CRI > 80 with R9 > 50	✓	CRI = 83, R9 > 90	• Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b>
c. IES Rf ≥ 78, IES Rg ≥ 100, -1% ≤ IES Rcs, h1 ≤ 15%	No	-	-
PART 2 - MANAGE FLICKER (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
Meets IEEE 1789-2015 Standard Recommended Practice	✓	Modulation = 1% Flicker Frequency = 120/2000Hz	• Select <b>V05, V01, LDE1, DALI</b> or <b>DMX</b> for <b>LED DRIVER</b>

### SOUND ABSORPTION - PART 1: MEET THRESHOLDS FOR REVERBERATION TIME + PART 2: IMPLEMENT SOUND REDUCING CEILINGS FEATURE S04

Sound absorbing spaces help alleviate undesirable noise, reduce stress, and increase comfort, productivity, and morale.

Part 1: All spaces except dwelling units meet the maximum Reverberation Time (60) thresholds in the table below.

Part 2: All spaces except dwelling units have ceiling treatment that meets the minimum Noise Reduction Coefficient NRC/  $\alpha_w$  values described below.

PART 1 - MEET THRESHOLDS FOR REVERBERATION TIME (1PT MAX)			
ROOM TYPE	SIZE	RT(60) (SECONDS)	HOW TO SPECIFY
Conference Rooms	N/A	CRI = 93 - 95	
Classrooms	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 0.6	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.5 to 0.8	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.6 to 1.0	
Lecture Halls	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 0.7	• Acoustic products in ALW's Harmonic Collection can contribute to meeting this WELL feature. Ensure to hire an acoustician to help specify products and layouts to meet the requirements of this WELL feature.
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.6 to 0.9	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.7 to 1.3	
Music Rehearsal Spaces	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 1.1	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	1.0 to 1.4	
Fitness Facilities	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	0.7 to 0.8	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.8 to 1.1	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	1.0 to 1.8	
PART 2 - IMPLEMENT SOUND REDUCING CEILINGS (1PT MAX)			
SPACE TYPE	NRC/ $\alpha_w$		HOW TO SPECIFY
Open Workspaces Enclosed Offices Dining Spaces	0.7 for at least 75% of available ceiling area		• Acoustic products in ALW's Harmonic Collection can contribute to meeting this WELL feature. Ensure to hire an acoustician to help specify products and layouts to meet the requirements of this WELL feature.
Conference Rooms Classrooms	0.7 for at least 80% of available ceiling area		

Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM  
9 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-5'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**PERFORMANCE DETAILS**

OUTPUT	OPTIC TYPE	DELIVERED LUMENS/FT		EFFICACY (LM/W)		WATTS/FT <sup>15</sup>	CRI OPTIONS	CCT OPTIONS
		DIRECT	INDIRECT	DIRECT	INDIRECT			
MIN <sup>16</sup>	CR/S	350	370	113	119	3.1	80+ 90+	2700K (90CRI Only) 3000K 3500K 4000K 5000K
	CR/ASY	370	N/A	119	N/A			
	CR/BAT	350	350	113	113			
	CR/AG	370	N/A	119	N/A			
	BAT	N/A	440	N/A	142			
LOW <sup>16</sup>	CR/S	475	500	113	119	4.2		
	CR/ASY	500	N/A	119	N/A			
	CR/BAT	470	490	112	117			
	CR/AG	500	N/A	119	N/A			
	BAT	N/A	580	N/A	138			
MED <sup>16</sup>	CR/S	750	775	115	119	6.5		
	CR/ASY	775	N/A	119	N/A			
	CR/BAT	735	750	113	115			
	CR/AG	775	N/A	119	N/A			
	BAT	N/A	920	N/A	142			
HI <sup>16</sup>	CR/S	1030	1050	117	119	8.8		
	CR/ASY	1050	N/A	119	N/A			
	CR/BAT	1000	1030	114	117			
	CR/AG	1050	N/A	119	N/A			
	BAT	N/A	1250	N/A	142			
MAX <sup>16</sup>	CR/S	1250	1300	117	121	10.7		
	CR/ASY	1300	N/A	121	N/A			
	CR/BAT	1200	1250	112	117			
	CR/AG	1300	N/A	121	N/A			
	BAT	N/A	1525	N/A	143			
TUNE	CR/S	WW: 475, CW: 515	WW: 490, CW: 530	WW: 113, CW: 123	WW: 117, CW: 126	4.2/channel	90+	2700K - 6500K
	CR/ASY	WW: 490, CW: 530	N/A	WW: 117, CW: 126	N/A			
	CR/BAT	WW: 475, CW: 500	WW: 480, CW: 520	WW: 110, CW: 119	WW: 114, CW: 124			
	CR/AG	WW: 490, CW: 550	N/A	WW: 117, CW: 131	N/A			
	BAT	N/A	N/A	N/A	N/A			
RGB <sup>17</sup>	CR/S	140	150	28	30	5	N/A	N/A
	CR/ASY	140	N/A	28	N/A			
	CR/BAT	140	150	28	34			
	CR/AG	140	N/A	28	N/A			
	BAT	N/A	N/A	N/A	N/A			
RGB+W <sup>18</sup>	CR/S	RGB: 140, W: 220	RGB: 150, W: 325	RGB: 28, W: 44	RGB: 30, W: 65	5	80+ (White Chip)	3500K (White Chip)
	CR/ASY	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			
	CR/BAT	RGB: 140, W: 220	RGB: 150, W: 230	RGB: 28, W: 44	RGB: 30, W: 46			
	CR/AG	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			
	BAT	N/A	N/A	N/A	N/A			

<sup>15</sup>Lumens/Watt and Watts/ft have been calculated assuming a driver efficiency of 85%. Depending on field conditions, actual measured values may fluctuate by 5-8%.  
<sup>16</sup>Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.  
<sup>17</sup>Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue).  
<sup>18</sup>Performance calculations are derived from the following LM-79 tests: 1) RGB LEDs illuminated, 2) RGB+W LEDs illuminated, 3) White LED only illuminated.



**Job Name:**  
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**Catalog Number:**

SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:****P200-5'**

MID23-74318



**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

**TM-30-18 DETAILS (90 CRI LAMPING)**

CCT	CRI (Ra)	CRI (R9)	TM-30 Rf	TM-30 Rg	Duv
<b>2700K</b>	94	57	92	100	-0.0012
<b>3000K</b>	93	55	91	100	-0.0012
<b>3500K</b>	93	55	90	98	-0.0002
<b>4000K</b>	92	58	89	97	-0.0003



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Notes: MOD = 8" tall acoustic panel & 500 LM/FT. ADVISE COLOR

**Type:**  
**P200-5'**

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BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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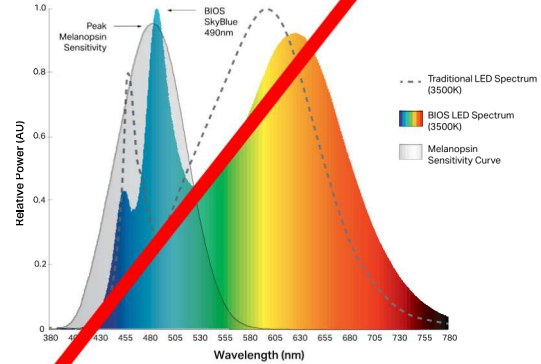


**BIOS OVERVIEW**



BIOS SkyBlue® technology is designed to provide the specific circadian stimulus required to improve overall sleep by featuring a distinct peak in the 'skyblue' spectral power at 490nm. Unlike traditional white LEDs, BIOS SkyBlue® makes it possible to achieve high EML (Equivalent Melanopic Lux) and Melanopic/Photopic ratios without harsh CCTs or high, glare-inducing light levels.

BIOS light engines are available in **Static** or **Dynamic** options for use with a variety of applications. In Static light engines, the SkyBlue 490nm signal always remains on while the fixture is powered. Dynamic options include a dynamic board and Bio-Dimmer module to allow the user to dim-out the SkyBlue 490nm signal during night time hours.



	BIOS STATIC (BIOS)	BIOS DYNAMIC + BIO-DIMMING™ (BIOSD)
<b>DESCRIPTION</b>	490nm SkyBlue light signal always remains on while the fixture is powered.	Dynamic light engine with Bio-Dimming add the ability to fine-tune and dim-out the 490nm SkyBlue signal during night time hours or as desired.
<b>TYPICAL APPLICATIONS</b>	Environments typically occupied only during daylight hours (6am-6pm) such as offices and schools.	Environments occupied for a 24-hour period such as hospitals, security facilities, behavioral health facilities, factories, etc.
<b>CONTROLS &amp; DIMMING*</b>	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS melanopic ratio remains constant as you dim down the light intensity.	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS SkyBlue® LED can be dimmed-out using a standard control/dimmer.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.

**BIOS LED LAMPING DETAILS (STATIC OR DYNAMIC)**

OUTPUT	DELIVERED LUMENS (LM/FT)		EFFICACY (LM/W)		WATTS (W/FT)	CRI
	DIRECT	INDIRECT	DIRECT	INDIRECT		
<b>MIN<sup>17</sup></b>	CR/S 350	370	CR/S 113	CR/S 119	3.1	82+
	CR/ASY 370	350	CR/ASY 119	CR/ASY 113		
	CR/BAT 350	400	CR/BAT 113	CR/BAT 142		
	CR/AG 370	-	CR/AG 119	-		
<b>LOW<sup>17</sup></b>	475	500	113	119	4.2	
	500	490	119	117		
	470	580	112	138		
	500	-	119	-		
<b>MED<sup>17</sup></b>	775	775	115	119	6.5	
	775	750	119	115		
	735	920	113	142		
	775	-	119	-		
<b>HIGH<sup>17</sup></b>	1030	1050	117	119	8.8	
	1050	1030	119	117		
	1000	1250	114	142		
	1050	-	119	-		
<b>MAX<sup>17</sup></b>	1250	1300	117	121	10.7	
	1300	1250	121	117		
	1200	1525	112	143		
	1300	-	121	-		

**BIOS LED PERFORMANCE DETAILS**

CCT	CRI (Ra) <small>Static BIOS Dynamic BIOS</small>	CRI (R9) <small>Static BIOS Dynamic BIOS</small>	DAYTIME M/P RATIO <sup>20</sup> <small>Static BIOS Dynamic BIOS</small>	NIGHTTIME M/P RATIO <sup>21</sup> <small>Static BIOS Dynamic BIOS</small>	COI <sup>22</sup> <small>Static BIOS Dynamic BIOS</small>
<b>3000K</b>	82	94	0.70	0.70	3.0
	83	90	0.73	0.45	3.3
<b>3500K</b>	83	91	0.80	0.80	3.1
	83	90	0.84	0.50	3.1
<b>4000K</b>	83	91	0.90	0.90	3.1
	83	90	0.95	0.55	3.1

<sup>19</sup>Performance calculations are based on LM-79 test of BIOS 4000K, MAX output. MIN, LOW, MED and HIGH calculations are extrapolated values.

<sup>20</sup>Melanopic to photopic (M/P) ratios are used to help calculate equivalent melanopic lux (EML) values which is the metric used for circadian lighting in the WELL™ Building Standard.

<sup>21</sup>Static LED nighttime M/P ratios remain the same as daytime M/P ratios as BIOS SkyBlue® always remains at full output.

<sup>22</sup>BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.



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**Catalog Number:**  
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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-5'**  
MID23-74318

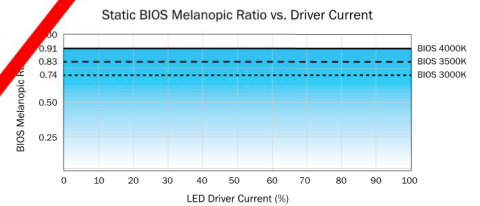
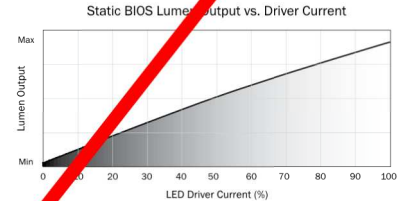
BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**BIOS STATIC DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	LIGHT OUTPUT* (BIOS SKYBLUE® + WHITE LED)		BIOS + White LED Intensity Dimming
100%* (Full On)	100%		
99% - 51%	Linear Dimming 99% - 51%		
50%	Linear Dimming 50%		
49% - 0%	Linear Dimming 49% - 0%		

BIOS SkyBlue® LED and White LED dim with a 1-to-1 ratio.



\*While melanopic ratio remains constant, dimming/reducing light output will have an overall impact on Equivalent Melanopic Lux (EML). That is because EML = Vertical Lux \* melanopic ratio. Therefore, if you reduce light levels by dimming the LEDs, you will reduce your effective EML, even when the melanopic ratio stays constant.

**BIOS DYNAMIC + BIO-DIMMING™ DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT	
100%* (Full On)	100%	100%	100%	Bio-Dimming
99% - 51%	100% - 0%	100%	100% - 90%	
50%	NO BIOS	100%	~90%	White LED Intensity Dimming
49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	

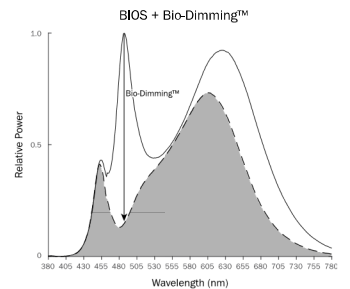
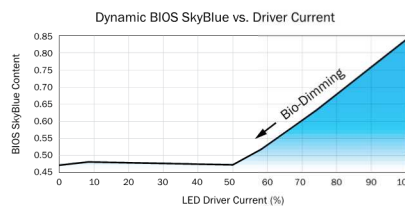
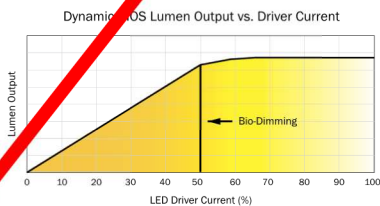
BIOS SkyBlue® maintained for maximum circadian impact.

Light output remains relatively constant.

BIOS SkyBlue® removed to provide minimal circadian impact.

White LED output dims linearly.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.



Rev 033123

**SP2.5SA - SPECIFICATIONS**  
**SUSPENDED**

**ALWUSA.COM**  
**13 of 20**





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**

**P200-5'**

MID23-74318

**DRIVERS**

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

PRODUCT CODE	DESCRIPTION
<b>N</b>	None. Choose when indirect lambing is not desired.
<b>V00</b>	0-10V dimming down to 0% (dim to off).
<b>V01</b>	0-10V dimming down to 1%.
<b>V05</b>	0-10V dimming down to 5% (Down to 10% for TUNE lambing).
<b>P01</b>	Driver supports both TRIAC Forward Phase 2-Wire and ELV Reverse Phase 3-Wire dimming controls.
<b>LDE1</b>	(LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
<b>ELDVO</b>	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)
<b>TSERIES</b>	Lutron T-Series Tunable White Class 2 LED Driver (For use with Lutron Quantum Control Systems)
<b>ELDDW</b>	eldoLED 0/10V dim-to-warm dimming down to 0% (specify with TUNE LED lambing. Driver will be programmed with LightShape dim-to-warm setting)
<b>DALI</b>	DALI flicker-free dimming down to 0%.
<b>DMX</b>	DMX flicker-free dimming down to 0%.
<b>POEM</b>	Molex CoreSync PoE LED Driver. Contact ALW to assist with your project.
<b>POEI</b>	IGOR PoE LED Driver. Contact ALW to assist with your project.
<b>POEN</b>	NuLEDS PoE LED Driver. Contact ALW to assist with your project.
<b>POE</b>	Specify a PoE driver of your choice. Fixture comes with low voltage leads and no LED driver. Contact ALW to assist with your project

\*Most drivers can be programmed to specific dimming levels if desired. Contact ALW for specific dimming level requests.

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

DRIVER/LED LAMPING COMPATIBILITY							
	STD	STD/BIOS	TUNE	RGB	RGB(W)	CA TITLE 24 JAB/JA10 <sup>23</sup>	IEEE P1789 & HD TV STUDIO <sup>24</sup>
<b>V00</b>	●	●	●			●	
<b>V01</b>	●	●	●			●	
<b>V05</b>	●	●	●			●	
<b>P01</b>	●	●				●	
<b>LDE1</b>	●	●				●	●
<b>ELDVO</b>	●	●	PER REQUEST			●	●
<b>TSERIES</b>			●			●	●
<b>ELDDW</b>	●		●			●	●
<b>DALI</b>	●	●	●			●	
<b>DMX</b>	●		●		●	PER REQUEST	PER REQUEST
<b>POEM</b>			PER REQUEST			●	●
<b>POEI</b>			PER REQUEST			●	●
<b>POEN</b>			PER REQUEST			●	●

● - Indicates compatibility

\* Standard lambing (STD) - MIN/LOW/MED/HI

<sup>23</sup> Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lambing with applicable LED drivers have the ability to conform to California Title 24 JAB and JA10 Appendices

<sup>24</sup> The following drivers conform to IEEE P1789 Flicker Standard: IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.

Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM**  
14 of 20



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**

**P200-5'**

MID23-74318

**SENSORS**

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

	PRODUCT CODE	DESCRIPTION	Location
	<b>N</b>	None. Choose when sensors are not desired.	-
<b>COOPER WAVELINX</b>	<b>WLNX/INT</b>	Wavelinx Wireless integral occ/daylight sensor (WaveLinX part: OEM-WAA)	Integral
	<b>WLNX</b>	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Remote
<b>ENLIGHTED™</b>	<b>ENLGH/INT</b>	Enlighted integral connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5E-CL)	Integral
	<b>ENLGH</b>	Enlighted® remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote
<b>LUTRON VIVE</b>	<b>VRF</b>	Lutron® Vive integral RF wireless fixture control (Lutron Part: DFCSJ-OEM-RF)	Integral
	<b>VDO</b>	Lutron® Vive integral RF wireless fixture control + daylight/occ sensor (Lutron Part: DFCSJ-OEM-OCC)	Integral
	<b>FCJS</b>	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote
	<b>FCJS/S</b>	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	Molex CoreSync PoE Integral Fixture-Mounted Sensor R - occ/daylight/temperature/humidity (Molex Part: 182091-1000)	Integral
	<b>MLX</b>	Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from	Remote
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	Fixture is built with nLight Wired integral components specified by agency. Contact ALW to review project details.	Integral
	<b>NLT</b>	Fixture is built to connect to nLight Wired remote components specified by agency. Contact ALW to review project details.	Remote
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	Fixture is built with nLight Air (Wireless) components specified by agency. Contact ALW to review project details.	Integral
	<b>NLTAIR</b>	Fixture is built to connect to nLight Air (Wireless) remote components specified by agency. Contact ALW to review project details.	Remote
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	Acuity 0-10VDC Integral occ/daylight sensor (Acuity Part: MSD 7 ADC WH) Automated Dimming Functionality Only. Manual Dimming not available. Customer to set sensor functionality in the field. Lowest dim level depends on driver.	Integral
	<b>OS/INT/HV</b>	Legrand Wattstopper <b>High Voltage</b> Integral occ/daylight on/off sensor (Part: FS-355) On/Off or Manual Dimming Functionality Only (based on occupancy and daylight). Connect fixture 0/10V wires to wall dimmer in the field. No Automated Dimming available.	Integral
	<b>OS/PH/HV</b>	Hubbell WSP <b>High Voltage</b> 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDS-UNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Remote

\*All connected lighting sensor systems must be programmed in the field by an electrical commissioner familiar with the system. Refer to the 'Sensor Compatibility' and 'Driver/Sensor Compatibility' charts to specify compatible sensors, LED lamping, and LED driver systems.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-5'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**SENSORS CONT'D**

SENSOR COMPATIBILITY								
PRODUCT CODE		SENSOR TYPE	MAX MT HT	CA TITLE 24	STD*	TUNE	RGB	RGB(W)
<b>COOPER WAVELINX</b>	<b>WLNx/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>WLNx</b>		15 ft	●	●			
<b>ENLIGHTED™</b>	<b>ENLGHt/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●	CUSTOM REQUEST		
	<b>ENLGHt</b>	OCCUPANCY/PHOTOCELL	40 ft	●	●	CUSTOM REQUEST		
<b>LUTRON VIVE</b>	<b>VRF</b>	WIRELESS CONTROL	12 ft	●	●			
	<b>VDO</b>	OCCUPANCY/PHOTOCELL	12 ft	●	●			
	<b>FCJS</b>	WIRELESS CONTROL	12 ft	●	●			
	<b>FCJS/S/</b>	OCCUPANCY/PHOTOCELL	12 ft	●	●			
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	OCCUPANCY/PHOTOCELL TEMPERATURE/HUMIDITY	16 ft	●	●			
	<b>MLX</b>		16 ft	●	●	●	CUSTOM REQUEST	CUSTOM REQUEST
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>NLT</b>		15 ft	●	●			
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>NLTAIR</b>		15 ft (average)	●	●			
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>OS/INT/HV</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●	■	■	■
	<b>OS/PH/HV</b>	OCCUPANCY/PHOTOCELL	45 ft	●	●	■	■	■

● - Indicates compatibility    ■ On/off sensor functionality only  
\*Standard Lamping (STD) - M/L/LOW/MED/HI



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-5'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**SENSORS (CONT'D)**

DRIVER/SENSOR COMPATIBILITY									
	WLN/INT	WLN	ENLGT/INT	ENLGT	VRF	VDO	FCJS	FCJS/S/	MLX/INT
V00	●	●					●	●	
V01	●	●					●	●	
V05	●	●					●	●	
P01									
LDE1					●	●	●	●	
ELDV0									
TSERIES									
ELDDW									
DALI			●	●	●	●			
DMX									
POEM									●

- - Indicates compatibility
- ▲ - Fixture can have automated dimming via sensor OR on/off functionality and manual dimming
- - On/off sensor functionality only

DRIVER/SENSOR COMPATIBILITY CONT'D									
	MLX	NLT/INT	NLT	NLTAIR/INT	NLTAIR	OS/PH/INT	OS/INT/HV	OS/PH/HV	NO SENSOR
V00						●	■	▲	●
V01						●	■	▲	●
V05						●	■	▲	●
P01							■	■	●
LDE1		●	●	●	●	●	■	▲	●
ELDV0							■	■	●
TSERIES							■	■	●
ELDDW							■	■	●
DALI							■	■	●
DMX							■	■	●
POEM	●								●
POEI	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POEN	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE	Sensor types will depend on the PoE system configuration. Contact ALW for details.								



**Job Name:**  
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SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-5'**

MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
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SHALL MATCH TURF BAFFLE FINISH.**



**PHOTOMETRICS**

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC) <sup>25</sup> (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
CR/ASY <sup>26</sup>		2 - 2.5 ft RECOMMENDED DISTANCE FROM WALL		1.14 1.30	1328	1300
CR/BAT		6 ft	18.6	1.22 1.7	801	1200
		8 ft	10.4			
		10 ft	6.7			
		12 ft	5.0			
		14 ft	3.4			
		16 ft	2.6			
CR/AG		6 ft	39.6	.8 1.12	1424.7	1300
		8 ft	22.3			
		10 ft	14.2			
		12 ft	9.9			
		14 ft	7.3			
		16 ft	5.6			
CR/S		6 ft	25.8	1.16 1.2	927	1250
		8 ft	14.5			
		10 ft	9.3			
		12 ft	6.4			
		14 ft	4.7			
		16 ft	3.6			
BAT		0.5 ft	38	1.28 3.14	1235	1525
		1 ft	34.5			
		2 ft	27.8			
		3 ft	22.2			
		4 ft	17.6			
		5 ft	13.5			

\*Photometric calculations based on MAX 4000K 80 CRI fixture combination. Actual results may vary in the field.

For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#)

<sup>25</sup>Spacing criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface.

Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).

<sup>26</sup>Recommended distance from wall calculated at 10ft mounting height

<sup>27</sup>BAT mounting height for BAT refers to distance from ceiling since BAT optic is only offered in indirect output.



**Job Name:**  
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SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**

**P200-5'**

MID23-74318



**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

**ADDITIONAL OPTIONS & SPECIFICATIONS****LED PERFORMANCE**

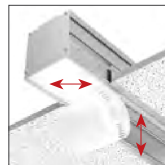
> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

**HOUSING**

100% recyclable, extruded architectural grade 6063 aluminum with a 0.09" minimum wall thickness.

**CONTROLROLL LENS OPTICS**

The optically engineered ControlRoll lens provides smooth, uniform, and seamless illumination for linear lengths of 250' while dynamically controlling output and reducing glare. The ControlRoll lens rolls out and snaps into the housing channel for easy installation.

**INDIRECT BATWING OPTIC**

A 120° rigid batwing optic can be specified for indirect lighting to achieve wide distributions of light across ceilings and to eliminate hotspots.

**SAFETY & REGULATORY**

Fixtures specified with 90CRI, 2700K, 3000K, 3500K, and 4000K lighting with applicable LED drivers have the ability to conform to **California Title 24 JAS and JASO** Appendices. EidoLED drivers can conform to IEEE P1789 Flicker Standard: IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers.

Contact [ALW customer support](#) today and we can help you with your project requirements..

ETL Listed (U.S. & Canada). Suitable for dry or damp locations.  
*For integral driver*, Conforms to UL std. 1598 luminaires,  
*For remote driver*, Conforms to UL std. 2018 luminaires.  
Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2

**WARRANTY**

Limited 5-year warranty. Details: [alwusa.com/warranty](http://alwusa.com/warranty)

**OPERATING TEMPERATURE**

Luminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from -4°F to 122°F (-20°C to 50°C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

**POWER CABLES**

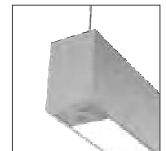
Power cables come standard in a transparent sheathing to match steel aircraft suspension cables. Please contact customer support if custom cables are required for your application. Power cables cannot be swapped in the field as it will void the ETL Safety Listing and Product Warranty.

**WEIGHT**

Approximately 3.9lbs. per linear foot. Weight may vary depending on additional options selected.

**CONTROLS, SENSORS, & LED DRIVER**

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, nLight, Cooper Wavelinx, eidoLED, Molex PoE, NuLEDs PoE, Igor PoE, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact [ALW customer support](#) today so we can review your requirements.

**WOOD VENEER**

Most ALW fixture configurations are available with **real wood veneer** as a custom request. Contact [ALW customer support](#) so we can help you with your custom wood veneer request.

Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM  
19 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S5-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-5'**  
MID23-74318



**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

**ADDITIONAL OPTIONS & SPECIFICATIONS CONT'D**

**WOOD VENEER**

Most ALW fixture configurations are available with real wood veneer as a custom request. Contact ALW customer support so we can help you with your custom wood veneer request.

**ACOUSTICS**

Material: 0.5" (12mm) PET polyester fibers. Acoustic sound absorbers are 100% recyclable at end of life use.  
NRC Rating: Our acoustics as a 2D absorber have a Noise Reduction Coefficient of 85%. Full test reports of common layouts for 3D absorbers including NRC and Sabin values will be available shortly.  
Fire Rating: Conforms to ASTM E84 Class A. Also conforms to EN13501-1 Class B.

**CARE**

PET acoustics: Remove dust with compressed air, a vacuum or lint roller.  
Aluminum & polymer components: Remove dust and debris with clean, dry or damp lint-free cloth.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-8"**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

Resubmit - The felt will not  
adjacent baffles as scheduled  
Documents of TURF baffles  
not option.



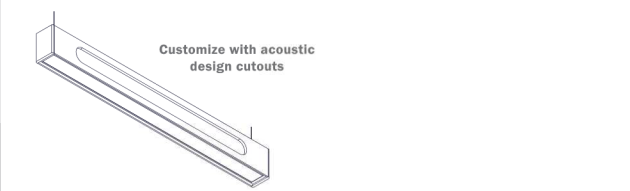
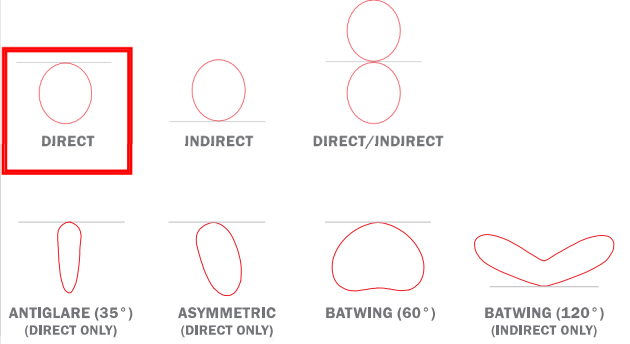
**SPECIFICATIONS**

<b>PROFILE</b>	2.5" Aperture, 3.93" total width
<b>SIZES</b>	2ft - 8ft sections
<b>LED OUTPUT</b>	350lm/ft - 1,525lm/ft
<b>CCT/CRI</b>	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W
<b>DIMMING/ DRIVER</b>	Integral and Remote Driver (0-10V, DALI, DMX, eldoLED, Lutron®, PoE (Moxel, Igor, NuLEDs)). Dimming to 0% for select models.
<b>POWER</b>	3.1W - 10.7W per ft.
<b>INPUT</b>	120VAC, 277VAC, or 347VAC
<b>OPTICS</b>	Control Optics - Continuous lens up to 250ft. Direct/indirect. Lambertian, Asymmetric, Batwing and Antiglare/Grazer optics available.
<b>FINISHES</b>	10 standard acoustic colors. 18 standard finishes at no extra charge. Custom finishes available.
<b>MATERIAL</b>	6063-T6 Extruded Aluminum. 0.5" PET polyester felt.
<b>ENVIRONMENT</b>	Dry or damp locations

**WELL/UGR** See pages 8-9 for recommended options that contribute  
to meeting the WELL Building Standard™. UGR values  
available under 'Glare Control' on page 8.

\*Safety and Performance information available on last two pages. Output  
and other specifications available on pages 10-11.

**DISTRIBUTIONS & PROFILES**



Not to scale. Dimensions are nominal. Consult factory for CAD drawing

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

ALWUSA.COM  
1 of 20



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-8'**

MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



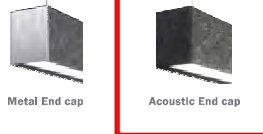
**PRODUCT SPECIFICATION SHEET**

1	2	4a	4b	4c	5	6	7a	7b	7c	8	9	10	11	12	13	14
1.5a	1.5b	1.5c														

**EXAMPLE: SP2.5SA - CAP/M - S5 - MED/90/3500 - V00 - CR/S - LOW/90/3500 - V00 - CR/S - ACW - DCSTM**

**GW - GW - UNV - EMB/1 - FCJS/1 - SB**

<b>1. BASE MODEL</b> SP2.5SA 2.5" aperture, 3.93" total width Suspended Acoustic	<b>2. END CAP* (CHOOSE 1)</b> CAP/M Metal End Cap CAP/A Acoustic End Cap <i>Add an aesthetic touch with a brushed or powder coated end cap. Metal end caps are not available for indirect only lamping option.</i>	<b>3. NOMINAL LENGTH* (ENTER LENGTH IN FEET)</b> s 8' Individual/Straight Run section from 2-8ft (enter length in product code above, ex. S5) <i>*Lengths are nominal. To ensure lengths match the exact lengths of other fixtures and/or sound baffles on the project it's recommended to include all products on a single purchase order, provide RCP (Reflective Ceiling Plan), and any additional details for ALW to review.</i>	<b>4. LED LAMPING - DIRECT* (CHOOSE 1 FOR EACH)</b> A. OUTPUT <sup>1</sup> B. CRI <sup>2</sup> C. CCT <sup>2</sup> MIN (350 lm/ft) NO CRI/CCT <sup>3</sup> 2700K <sup>4</sup> LOW (475 lm/ft) 80 3000K MED (750 lm/ft) 90 3500K HI (1030 lm/ft) BIOS <sup>5</sup> (STATIC BIOS) 4000K MAX (1250 lm/ft) BIOS <sup>5</sup> (DYNAMIC BIOS) RGB (140 lm/ft) TUNE (2700K-6500K, 90 CRI, 475/515 lm/ft) RGBW (3500K, White, 80 CRI, 140/220 lm/ft) CSTM_____ <sup>6</sup> (Enter lumens in product code above, Ex. 0100=100lm/ft)
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<b>5. DRIVER - DIRECT* (CHOOSE 1)</b> QS N (None) QS V00 (dim to off) QS V01 (0-10V, dim to 1%) QS V05 (0-10V, dim to 5%) LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%) P01 (ELV/TRIAC phase dim to 1%) T SERIES (Lutron tuneable white) ELDVO (eldoLED 0-10V dim to 0%) ELDDW (eldoLED dim to warm) DALI (DALI, dim to 0%) DMX (DMX, dim to 0%) POEM (POE Molex) POEI (POE IGOR) POEN (POE Nuleds) POE (POE Ready)	<b>6. LENS - DIRECT</b> N None. CR/S ControlRoll lens with diffused, lambertian distribution CR/ASY ControlRoll lens with asymmetric/wall wash distribution (peak intensity 60°) CR/BAT ControlRoll lens with batwing/floor distribution (peak intensity 60°) CR/AG ControlRoll lens with antiglare/grazer optics (35° distribution) <i>*Select when direct lamping is not desired. The lens will be substituted with an aluminum lid with same finish as fixture. *Not available for TUNE, RGB, RGBW, BIOS, or BIOSD lamping.</i>	<b>7. LED LAMPING - INDIRECT* (CHOOSE 1 FOR EA.)</b> A. OUTPUT B. CRI <sup>2</sup> C. CCT <sup>2</sup> MIN (370 lm/ft) NO CRI/CCT <sup>3</sup> LOW (500 lm/ft) 80 2700K <sup>4</sup> MED (775 lm/ft) 90 3000K HI (1050 lm/ft) BIOS <sup>5</sup> (STATIC BIOS) 3500K MAX (1300 lm/ft) BIOS <sup>5</sup> (DYNAMIC BIOS) 4000K RGB (150 lm/ft) TUNE (2700K-6500K, 90 CRI, 490/530 lm/ft) RGBW (3500K, White, 80 CRI, 150/325 lm/ft) CSTM_____ <sup>6</sup> (Enter lumens in product code above, Ex. 0100=100lm/ft)	<b>8. DRIVER - INDIRECT* (CHOOSE 1)</b> QS N (None) QS V00 (dim to off) QS V01 (0-10V, dim to 1%) QS V05 (0-10V, dim to 5%) LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%) P01 (ELV/TRIAC phase dim to 1%) T SERIES (Lutron tuneable white) ELDVO (eldoLED 0-10V dim to 0%) ELDDW (eldoLED dim to warm) DALI (DALI, dim to 0%) DMX (DMX, dim to 0%) POEM (POE Molex) POEI (POE IGOR) POEN (POE Nuleds) POE (POE Ready)
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<b>9. LENS - INDIRECT (CHOOSE 1)</b> N <sup>10</sup> None. CR/S ControlRoll lens with diffused, lambertian distribution CR/BAT ControlRoll lens with batwing/floor distribution (peak intensity 60°) BAT <sup>11</sup> Rigid batwing optic (peak intensity 120°) <i><sup>10</sup>Lens will be substituted with an aluminum lid with same finish as fixture. <sup>11</sup>Not available for TUNE, RGB, RGBW, BIOS, or BIOSD</i>	<b>10. ACOUSTIC FINISH* (CHOOSE 1)</b> ACW Crystal White AMW Marble White AHG Heather Gray ACG Charcoal Gray AJB Jet Black AIW Ivory White AAG Aloe Green ATO Titan Orange ASR Scarlet Red AMB Midnight Blue <i>*See page 7 for larger swatches and additional information</i>	<b>11. ACOUSTIC DESIGN (CHOOSE 1)</b> N None, Choose for a solid acoustic insert. DCSTM Custom Design (See template on page 5) 	<b>12. FIXTURE FINISH* (CHOOSE 1)</b> <b>STANDARD FINISHES</b> AL <sup>12</sup> Anodized Aluminum SW Satin White SB Satin Black See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze) <b>SPECIAL ORDER FINISHES*</b> RAL Specify RAL Classic Color (Ex: RAL 3003) - CAT Specify Catalog Colors CCM Custom Color Match <i>*Manually type in the finish code for special order finishes. <sup>12</sup>Unless specified otherwise, Anodized Aluminum finish is provided by default for Solid Acoustic Designs. If an Acoustic Design Cutout (DCSTM) is desired, specify any other finish.</i>
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**ADVISE**

CONTINUES ON NEXT PAGE

Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM  
2 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-8'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**PRODUCT SPECIFICATION SHEET CONT'D**

13. FINISH - END CAP (CHOOSE 1)	14. VOLTAGE (CHOOSE 1)	15a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)
<b>N<sup>13</sup></b> None.  <b>STANDARD FINISHES</b> <b>LB</b> <input type="checkbox"/> Light Brushed Aluminum <b>SW</b> <input type="checkbox"/> Satin White <b>SB</b> <input checked="" type="checkbox"/> Satin Black — See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze)  <b>SPECIAL ORDER FINISHES*</b> <b>RAL</b> ____ Specify RAL Classic Color (Ex: RAL 3003) - <b>CAT</b> ____ Specify Catalog Colors <b>CCM</b> ____ Custom Color Match	<b>UNV</b> Universal Voltage (120VAC-277VAC) <b>347</b> 347 Volt (Driver options may be limited. Not available with EMB)	<b>EMB/</b> __ <sup>14</sup> Emergency Battery (indicate QTY – each battery powers 4ft. section @ 1492lm. Not available in 347 V)  <b>EMC/</b> __ <sup>14</sup> Emergency Circuit ( indicate QTY of 4ft sections to be illuminated by emergency circuit)  <small><sup>14</sup>For fixtures under 4ft in length, entire fixture will be illuminated with a proportional lumen output. Consult ALW for more details.</small>

\*Manually type in the finish code for special order finishes.  
<sup>13</sup>Select when specifying acoustic end cap.

15b. SENSOR OPTIONS* (OPTIONAL, CHOOSE 1)	15c. ADDITIONAL OPTIONS (OPTIONAL)
<b>N</b> (None) <b>WLN</b> X/INT/___ (Cooper Wavelinx, integral) <b>WLN</b> X/___ (Cooper Wavelinx, remote) <b>ENL</b> GHT/___ (Enlighted, remote) <b>ENL</b> GHT/INT/___ (Enlighted, integral) <b>VRF</b> /___ (Lutron Vive, integral) <b>VDO</b> /___ (Lutron Vive, integral+ occ/daylight sensor) <b>FCJS</b> /___ (Lutron, remote) <b>FCJS</b> /S/___ (Lutron, remote + occ/daylight sensor) <b>MLX</b> /INT/___ (Molex POE, integral)  <b>MLX</b> (Molex POE, remote) <b>NLT</b> /INT/___ (nLight wired, integral occ/daylight sensor) <b>NLT</b> (nLight wired remote connection) <b>NLTAIR</b> /INT/___ (nLight AIR, integral) <b>NLTAIR</b> (nLight AIR, remote connection) <b>OS/PH</b> /INT/___ (Acuity 0-10V, integral occ/daylight sensor) <b>OS</b> /INT/HV/___ (Legrand Workstopper High Voltage integral occ/daylight sensor) <b>OS/PH</b> /HV/___ (Hubbell WASP remote occ/daylight sensor)	<b>SB</b> Seismic Bracing

\*Quickship availability on occupancy and photocell/daylight sensors may vary, Contact ALW for more information.  
 \*Default quantity is 1 sensor per 8ft. type alternate quantity into product code above if desired. See sensor descriptions available on page 15.  
 \*Not all sensors are compatible with all drivers. See "Driver", "Sensor" and lamping charts for driver details and sensor compatibility.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

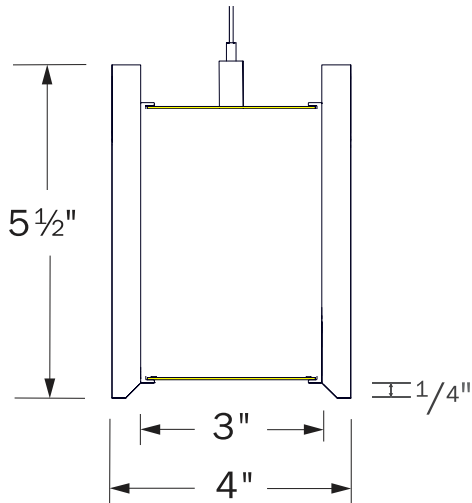
**Type:**  
**P200-8'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

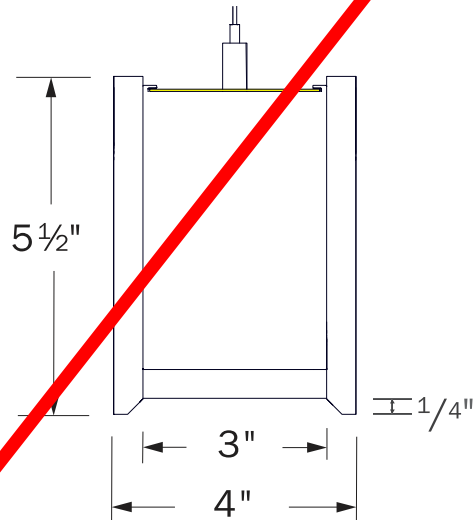


**MECHANICAL DIAGRAMS**

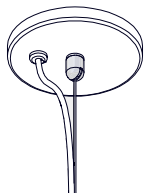
**DIRECT OR DIRECT/INDIRECT**



**INDIRECT ONLY**

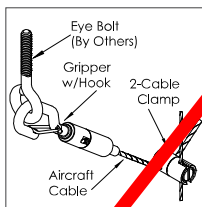


**SUSPENSION MOUNTING OPTIONS**



**CEILING HARDWARE**

- 4.5" canopy per power feed location. Canopy finish is always white. Contact ALW for alternate color.
- Bullet mount.
- 8' aircraft cable
- 2" canopy (for use with T-bar mounting) per suspension point



**SEISMIC BRACING (SB)**

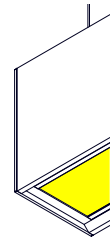
Add-on hardware includes cable gripper with hook, 2-cable clamp and specified length of aircraft cable per suspension point.

**ACOUSTIC END CAP**



Available with Direct, Indirect, or Direct/Indirect Lamping. When Indirect Only is specified an acoustic lid will be installed on the direct lamping side.

**METAL END CAP**



Available with Direct or Direct/Indirect Lamping. Metal end caps are not available for Indirect Only Lamping.



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**

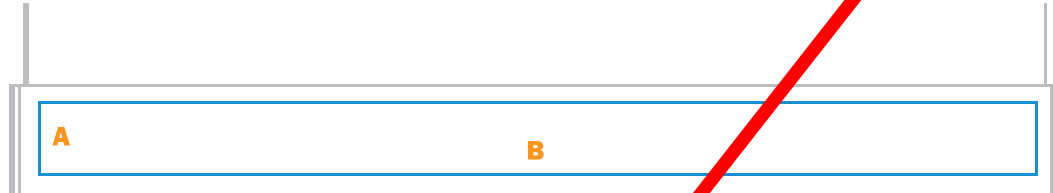
**P200-8'**

MID23-74318

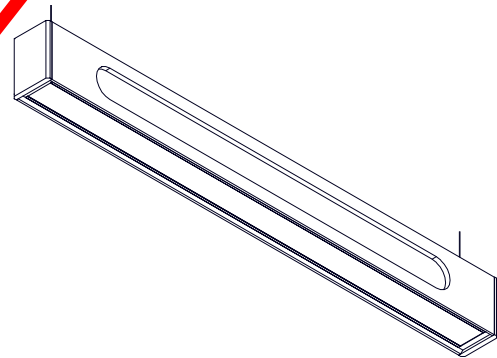
**CUSTOM ACOUSTIC PATTERNS**

Choose from a solid sound absorbing baffle or create your own custom designs by following the instructions and template guidelines below. Gray areas indicate templates for acoustic pattern cutouts.

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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SHALL MATCH TURF BAFFLE FINISH.**



DIMENSION	BASE MODEL	CUT OUT AREA
<b>A</b>	<b>SP2.5SA</b> - 5.5" height	3.5"
	<b>S2</b> - 2' (24") length	22"
	<b>S3</b> - 3' (36") length	34"
	<b>S4</b> - 4' (48") length	46"
<b>B</b>	<b>S5</b> - 5' (60") length	58"
	<b>S6</b> - 6' (72") length	70"
	<b>S7</b> - 7' (84") length	82"
	<b>S8</b> - 8' (96") length	94"

**HOW TO SUBMIT YOUR CUSTOM ACOUSTIC PATTERN?****1. DOWNLOAD THE ACOUSTIC CUSTOM PATTERN .ZIP FILE ON THE PRODUCT PAGE**

Open the appropriate .ai (Adobe Illustrator) or CAD .dxf file.

**2. INPUT YOUR DESIGN WITHIN THE TEMPLATE AREA.**

Template area will be marked with a dashed perimeter.

**3. SAVE YOUR FILE INCLUDE THE PROJECT NAME AND OTHER SUPPORTING INFO AT THE END OF THE FILE NAME.**

For example, "SP2.5SA Custom Acoustic Design Template - Project ALW".

**4. SUBMIT FILES BELOW TO ALW FOR REVIEW.**

1. Acoustic Design Template File
2. Product Code and Quantities

Rev 033123

**SP2.5SA – SPECIFICATIONS**  
SUSPENDED

**ALWUSA.COM**  
5 of 20



**Job Name:**  
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**STANDARD FINISHES**

Standard finishes are available at no additional charge.

**ALUMINUM**



Anodized Aluminum

\* Only for Fixture finish



Light Brushed Aluminum

\* Only for End Cap finish

**BASIC POWDER COAT**



Gloss White



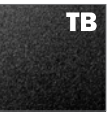
Satin White



Antimicrobial Satin White



Textured Matte White



Textured Matte Black

**METALLIC POWDER COAT**



Silver Gray



Charcoal Gray



Copper



Brass

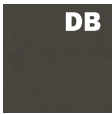
**SATIN ANODIZED EFFECT POWDER COAT**



Clear Silver



Oil-Rubbed Bronze



Dark Bronze



Satin Black

**GLOSS POWDER COAT (80-95% GLOSS)**



Orange RAL 2003



Red RAL 3020



Magenta RAL 4010



Blue RAL 5015

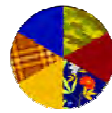
Contact ALW Quotes for sample paint finish swatches.

**SPECIAL ORDER FINISHES\***



**RAL CLASSIC COLORS (80-95% GLOSS): RAL\_ \_ \_ \_**

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003). See [www.alwusa.com/finishes](http://www.alwusa.com/finishes)



**CUSTOM COLOR MATCH: CCM\_ \_ \_ \_**

Custom powder coat color matching is available for a premium setup fee. Consult ALW for additional information.



**CATALOG COLORS: CAT\_ \_ \_ \_**

The complete range of powder coat colors from Tiger Drylac and TCI catalogs are available for a minimum setup fee. Consult ALW for a catalog color you would like to specify.

\*An individual setup fee will apply to each unique Special Order Finish per purchase order. (ex: RAL 5008 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)

\*Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying)





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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-8'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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**ACOUSTIC FINISHES**

**ACOUSTIC COLORS & INFORMATION** **ADVISE COLOR**

The Harmonic Collection features 10 acoustic material colors comprised of ~0.5" (12mm) PET polyester fibers, specially designed for premium sound absorption. ALW's PET acoustics as a 2D absorber have a NRC (Noise Reduction Coefficient) of 85%. Each panel is precision-cut to size using our CNC-cutting process, enabling a wealth of design options from beveled edges to custom cutouts. All panels conform to ASTM E84 Class A and EN13501-1 Class B fire ratings.



**COMPANION ACOUSTIC COLORS & RAL FINISHES**

The chart below outlines suggested RAL finishes to complement the acoustic colors above. With exception to ALW Satin Black and Satin White these RAL suggestions are not standard paint finish offerings. See next page for ALW's full paint finish catalog.

ACOUSTIC COLOR	COMPANION RAL FINISHES	ACOUSTIC COLOR	COMPANION RAL FINISHES
Crystal White	ALW Satin Black (SB) ALW Satin White (SW)	Ivory White	ALW Satin Black (SB) ALW Satin White (SW)
Marble White	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Aloe Green	RAL 6025 - Fern Green (slightly darker shade than acoustic) RAL 7013 - Brown Grey ALW Satin Black (SB) ALW Satin White (SW)
Heather Gray	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Titan Orange	RAL 2011 - Deep Orange RAL 5003 - Sapphire Blue RAL 5008 - Grey Blue RAL 8011 - Nut Brow RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Charcoal Gray	RAL 7021 - Black Grey RAL 7024 - Graphite Grey ALW Satin Black (SB) ALW Satin White (SW)	Scarlet Red	RAL 3031 - Orient Red RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Jet Black	ALW Satin Black (SB) ALW Satin White (SW)	Midnight Blue	RAL 5002 - Ultramarine Blue RAL 2011 - Deep Orange RAL 4010 - Magenta RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)





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Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**

**P200-8'**

MID23-74318



### SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™

ALW is committed to providing the highest quality luminaires for a multitude of applications, with many versatile lighting solutions that contribute to satisfying the WELL Building Standard. Below is a quick guide to assist you in specifying appropriate product configurations for WELL features. Links to official WELL standards can be found [here](#).

### CIRCADIAN LIGHTING DESIGN FEATURE L03

The Circadian Lighting Design feature requires projects to provide users with appropriate exposure to light for maintaining circadian health and aligning the circadian rhythm with the day-night cycle.

To conform to these requirements, the project must meet one of the following 4 light level options (a, b, c, or d) below. These light levels are measured on the vertical plane at eye level of the occupant. The light levels are achieved at least between the hours of 9 a.m. and 1 p.m. and may be lowered after 8 p.m. at night.

DESIGNING WITH ELECTRIC LIGHT ONLY	DESIGNING WITH BOTH ELECTRIC LIGHT & DAYLIGHT	POINTS
a. At least 150 EML [136 melanopic equivalent daylight D65]	b. The project achieves at least 120 EML [109 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	1
c. At least 240 EML [218 melanopic equivalent daylight D65]	d. The project achieves at least 180 EML [163 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	3

Choose from a BIOS Static or BIOS Dynamic light engine to assist in a healthy, circadian lighting design. CCT, CRI, Luminous Flux Multipliers, and Melanopic Ratios are shown below for easy specification.

CIRCADIAN LIGHTING DESIGN (3PT MAX)	BIOS STATIC (BIOS)			BIOS DYNAMIC (BIOSD)			HOW TO SPECIFY
<b>CCT</b>	3000K	3500K	4000K	3000K	3500K	4000K	1. Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b> 2. Select the appropriate Lumen <b>OUTPUT</b> 3. Select the appropriate <b>CCT</b>
<b>CRI / R9</b>	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	
<b>LUMINOUS FLUX MULTIPLIER</b>	0.95	0.98	1.00	0.95	0.98	1.00	See BIOS LED Lamping and Performance Details at the back of this spec sheet for lumen outputs, COI index values, and other additional information.
<b>MELANOPIC RATIO (R)*</b>	0.70	0.80	0.90	0.74	0.83	0.95	

### GLARE CONTROL FEATURE L04

Glare is defined as excessive brightness of a light-source, excessive brightness-contrasts and excessive quantities of light. Glare has been associated with a host of health issues that range from visual discomfort and eye fatigue to headaches and migraines.

To conform to Glare Control requirements, each luminaire must meet one of the following options (a, b, or d) for regularly occupied spaces.

GLARE CONTROL CRITERIA (3PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. Indirect (100% emission above horizontal)	✓	100%	1. Select <b>N</b> (None) for <b>LED LAMPING - DIRECT</b> 2. Select <b>any of the options</b> for <b>LED LAMPING - INDIRECT</b>
b. Unified Glare Rating (UGR)*	✓	14.67 @ 16ft (MAX Output) 12.63 @ 20ft (MAX Output)	1. Select <b>ANY</b> output for <b>LED LAMPING - DIRECT</b> 2. Select <b>CR/S</b> (ControlRoll Diffused Lens) or <b>CR/AG</b> (ControlRoll Antiglare Lens) for <b>LENS</b>
c. Shielding Angle	No	-	-
d. Max. Luminance (45°-90°) Max. Intensity (45°-90°)	✓	4668 cd/m <sup>2</sup> @ MED Output 312.21 cd @ MED Output	1. Select an output of <b>MIN</b> or <b>MED</b> for <b>LED LAMPING - DIRECT</b> 2. Select <b>CR/AG</b> (ControlRoll Antiglare Lens) for <b>LENS</b>

\*Advertised UGR values are averages and were calculated in AGI32 using the following method: 1) A 5.4m x 3.6m room was created and fixtures were spaced 2m apart center-to-center. Calculations were performed at 16ft. and 20ft.

Rev 033123

**SP2.5SA - SPECIFICATIONS**  
**SUSPENDED**

**ALWUSA.COM**  
**8 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S8-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**

**P200-8'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™ (CONTINUED)

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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### ELECTRIC LIGHT QUALITY - PART 1: COLOR RENDERING QUALITY + PART 2: FLICKER FEATURE L07

Using light sources that have characteristics similar to daylight, including high color rendering and minimal flicker can improve comfort and well-being of users in a space and contribute to creating a healthy environment.

Part 1: Each luminaire must meet one of the following requirements (a or b) for regularly occupied spaces.

Part 2: Each luminaire must meet the IEEE 1789-2015 Standard Recommended Practice to manage flicker.

PART 1 - ENSURE COLOR RENDERING QUALITY (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. CRI > 90	✓	CRI = 93 - 95	• Select <b>90</b> (90CRI) for <b>LED LAMPING</b>
b. CRI > 80 with R9 > 50	✓	CRI = 83, R9 > 90	• Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b>
c. IES Rf ≥ 78, IES Rg ≥ 100, -1% ≤ IES Rcs, h1 ≤ 15%	No	-	-
PART 2 - MANAGE FLICKER (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
Meets IEEE 1789-2015 Standard Recommended Practice	✓	Modulation = 1% Flicker Frequency = 120/2000Hz	• Select <b>V05, V01, LDE1, DALI</b> or <b>DMX</b> for <b>LED DRIVER</b>

### SOUND ABSORPTION - PART 1: MEET THRESHOLDS FOR REVERBERATION TIME + PART 2: IMPLEMENT SOUND REDUCING CEILINGS FEATURE S04

Sound absorbing spaces help alleviate undesirable noise, reduce stress, and increase comfort, productivity, and morale.

Part 1: All spaces except dwelling units meet the maximum Reverberation Time (60) thresholds in the table below.

Part 2: All spaces except dwelling units have ceiling treatment that meets the minimum Noise Reduction Coefficient NRC/  $\alpha_w$  values described below.

PART 1 - MEET THRESHOLDS FOR REVERBERATION TIME (1PT MAX)			
ROOM TYPE	SIZE	RT(60) (SECONDS)	HOW TO SPECIFY
Conference Rooms	N/A	CRI = 93 - 95	
Classrooms	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 0.6	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.5 to 0.8	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.6 to 1.0	
Lecture Halls	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 0.7	• Acoustic products in ALW's Harmonic Collection can contribute to meeting this WELL feature. Ensure to hire an acoustician to help specify products and layouts to meet the requirements of this WELL feature.
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.6 to 0.9	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.7 to 1.3	
Music Rehearsal Spaces	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 1.1	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	1.0 to 1.4	
Fitness Facilities	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	0.7 to 0.8	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.8 to 1.1	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	1.0 to 1.8	
PART 2 - IMPLEMENT SOUND REDUCING CEILINGS (1PT MAX)			
SPACE TYPE	NRC/ $\alpha_w$		HOW TO SPECIFY
Open Workspaces Enclosed Offices Dining Spaces	0.7 for at least 75% of available ceiling area		• Acoustic products in ALW's Harmonic Collection can contribute to meeting this WELL feature. Ensure to hire an acoustician to help specify products and layouts to meet the requirements of this WELL feature.
Conference Rooms Classrooms	0.7 for at least 80% of available ceiling area		

Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM  
9 of 20**



**Job Name:**  
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(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-8'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**PERFORMANCE DETAILS**

OUTPUT	OPTIC TYPE	DELIVERED LUMENS/FT		EFFICACY (LM/W)		WATTS/FT <sup>15</sup>	CRI OPTIONS	CCT OPTIONS
		DIRECT	INDIRECT	DIRECT	INDIRECT			
MIN <sup>16</sup>	CR/S	350	370	113	119	3.1	80+ 90+	2700K (90CRI Only) 3000K 3500K 4000K 5000K
	CR/ASY	370	N/A	119	N/A			
	CR/BAT	350	350	113	113			
	CR/AG	370	N/A	119	N/A			
	BAT	N/A	440	N/A	142			
LOW <sup>16</sup>	CR/S	475	500	113	119	4.2		
	CR/ASY	500	N/A	119	N/A			
	CR/BAT	470	490	112	117			
	CR/AG	500	N/A	119	N/A			
	BAT	N/A	580	N/A	138			
MED <sup>16</sup>	CR/S	750	775	115	119	6.5		
	CR/ASY	775	N/A	119	N/A			
	CR/BAT	735	750	113	115			
	CR/AG	775	N/A	119	N/A			
	BAT	N/A	920	N/A	142			
HI <sup>16</sup>	CR/S	1030	1050	117	119	8.8		
	CR/ASY	1050	N/A	119	N/A			
	CR/BAT	1000	1030	114	117			
	CR/AG	1050	N/A	119	N/A			
	BAT	N/A	1250	N/A	142			
MAX <sup>16</sup>	CR/S	1250	1300	117	121	10.7		
	CR/ASY	1300	N/A	121	N/A			
	CR/BAT	1200	1250	112	117			
	CR/AG	1300	N/A	121	N/A			
	BAT	N/A	1525	N/A	143			
TUNE	CR/S	WW: 475, CW: 515	WW: 490, CW: 530	WW: 113, CW: 123	WW: 117, CW: 126	4.2/channel	90+	2700K - 6500K
	CR/ASY	WW: 490, CW: 530	N/A	WW: 117, CW: 126	N/A			
	CR/BAT	WW: 475, CW: 500	WW: 480, CW: 520	WW: 110, CW: 119	WW: 114, CW: 124			
	CR/AG	WW: 490, CW: 550	N/A	WW: 117, CW: 131	N/A			
	BAT	N/A	N/A	N/A	N/A			
RGB <sup>17</sup>	CR/S	140	150	28	30	5	N/A	N/A
	CR/ASY	140	N/A	28	N/A			
	CR/BAT	140	150	28	34			
	CR/AG	140	N/A	28	N/A			
	BAT	N/A	N/A	N/A	N/A			
RGB+W <sup>18</sup>	CR/S	RGB: 140, W: 220	RGB: 150, W: 325	RGB: 28, W: 44	RGB: 30, W: 65	5	80+ (White Chip)	3500K (White Chip)
	CR/ASY	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			
	CR/BAT	RGB: 140, W: 220	RGB: 150, W: 230	RGB: 28, W: 44	RGB: 30, W: 46			
	CR/AG	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			
	BAT	N/A	N/A	N/A	N/A			

<sup>15</sup>Lumens/Watt and Watts/ft have been calculated assuming a driver efficiency of 85%. Depending on field conditions, actual measured values may fluctuate by 5-8%.  
<sup>16</sup>Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.  
<sup>17</sup>Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue).  
<sup>18</sup>Performance calculations are derived from the following LM-79 tests: 1) RGB LEDs illuminated, 2) RGB+W LEDs illuminated, 3) White LED only illuminated.



**Job Name:**  
DUTCHESS STADIUM  
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**Catalog Number:**

SP2.5SA-CAP/A-S8-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:****P200-8'**

MID23-74318



**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

**TM-30-18 DETAILS (90 CRI LAMPING)**

CCT	CRI (Ra)	CRI (R9)	TM-30 Rf	TM-30 Rg	Duv
<b>2700K</b>	94	57	92	100	-0.0012
<b>3000K</b>	93	55	91	100	-0.0012
<b>3500K</b>	93	55	90	98	-0.0002
<b>4000K</b>	92	58	89	97	-0.0003



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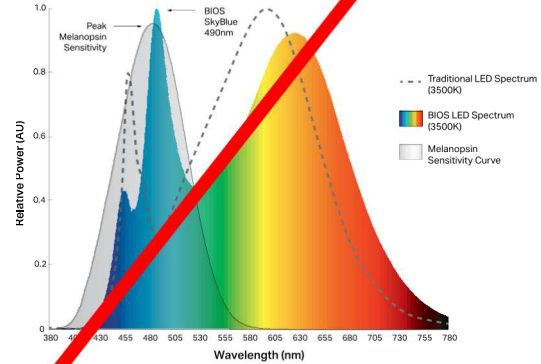


**BIOS OVERVIEW**



BIOS SkyBlue® technology is designed to provide the specific circadian stimulus required to improve overall sleep by featuring a distinct peak in the 'skyblue' spectral power at 490nm. Unlike traditional white LEDs, BIOS SkyBlue® makes it possible to achieve high EML (Equivalent Melanopic Lux) and Melanopic/Photopic ratios without harsh CCTs or high, glare-inducing light levels.

BIOS light engines are available in **Static** or **Dynamic** options for use with a variety of applications. In Static light engines, the SkyBlue 490nm signal always remains on while the fixture is powered. Dynamic options include a dynamic board and Bio-Dimmer module to allow the user to dim-out the SkyBlue 490nm signal during night time hours.



	BIOS STATIC (BIOS)	BIOS DYNAMIC + BIO-DIMMING™ (BIOSD)
<b>DESCRIPTION</b>	490nm SkyBlue light signal always remains on while the fixture is powered.	Dynamic light engine with Bio-Dimming add the ability to fine-tune and dim-out the 490nm SkyBlue signal during night time hours or as desired.
<b>TYPICAL APPLICATIONS</b>	Environments typically occupied only during daylight hours (6am-6pm) such as offices and schools.	Environments occupied for a 24-hour period such as hospitals, security facilities, behavioral health facilities, factories, etc.
<b>CONTROLS &amp; DIMMING*</b>	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS melanopic ratio remains constant as you dim down the light intensity.	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS SkyBlue® LED can be dimmed-out using a standard control/dimmer.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.

**BIOS LED LAMPING DETAILS (STATIC OR DYNAMIC)**

OUTPUT	DELIVERED LUMENS (LM/FT)		EFFICACY (LM/W)		WATTS (W/FT)	CRI
	DIRECT	INDIRECT	DIRECT	INDIRECT		
<b>MIN<sup>17</sup></b>	CR/S 350	370	CR/S 113	CR/S 119	3.1	82+
	CR/ASY 370	350	CR/ASY 119	CR/ASY 113		
	CR/BAT 350	400	CR/BAT 113	CR/BAT 142		
	CR/AG 370	-	CR/AG 119	CR/AG -		
<b>LOW<sup>17</sup></b>	475	500	113	119	4.2	
	500	490	119	117		
	470	580	112	138		
	500	-	119	-		
<b>MED<sup>17</sup></b>	775	775	115	119	6.5	
	775	750	119	115		
	735	920	113	142		
	775	-	119	-		
<b>HIGH<sup>17</sup></b>	1030	1050	117	119	8.8	
	1050	1030	119	117		
	1000	1250	114	142		
	1050	-	119	-		
<b>MAX<sup>17</sup></b>	1250	1300	117	121	10.7	
	1300	1250	121	117		
	1200	1525	112	143		
	1300	-	121	-		

**BIOS LED PERFORMANCE DETAILS**

CCT	CRI (Ra) <small>Static BIOS Dynamic BIOS</small>	CRI (R9) <small>Static BIOS Dynamic BIOS</small>	DAYTIME M/P RATIO <sup>20</sup> <small>Static BIOS Dynamic BIOS</small>	NIGHTTIME M/P RATIO <sup>21</sup> <small>Static BIOS Dynamic BIOS</small>	COI <sup>22</sup> <small>Static BIOS Dynamic BIOS</small>
<b>3000K</b>	82	94	0.70	0.70	3.0
	83	90	0.73	0.45	3.3
<b>3500K</b>	83	91	0.80	0.80	3.1
	83	90	0.84	0.50	3.1
<b>4000K</b>	83	91	0.90	0.90	3.1
	83	90	0.95	0.55	3.1

<sup>19</sup>Performance calculations are based on LM-79 test of BIOS 4000K, MAX output. MIN, LOW, MED and HIGH calculations are extrapolated values.

<sup>20</sup>Melanopic to photopic (M/P) ratios are used to help calculate equivalent melanopic lux (EML) values which is the metric used for circadian lighting in the WELL™ Building Standard.

<sup>21</sup>Static LED nighttime M/P ratios remain the same as daytime M/P ratios as BIOS SkyBlue® always remains at full output.

<sup>22</sup>BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.

Rev 033123

**SP2.5SA – SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM  
12 of 20**



**Job Name:**  
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(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-8'**

MID23-74318

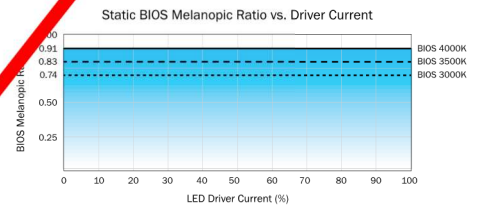
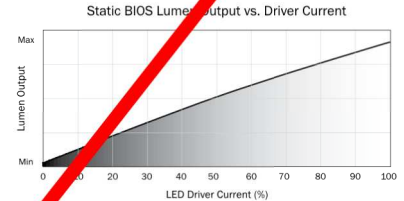
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SHALL MATCH TURF BAFFLE FINISH.**



**BIOS STATIC DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	LIGHT OUTPUT* (BIOS SKYBLUE® + WHITE LED)		BIOS + White LED Intensity Dimming
100%* (Full On)	100%		
99% - 51%	Linear Dimming 99% - 51%		
50%	Linear Dimming 50%		
49% - 0%	Linear Dimming 49% - 0%		

BIOS SkyBlue® LED and White LED dim with a 1-to-1 ratio.



\*While melanopic ratio remains constant, dimming/reducing light output will have an overall impact on Equivalent Melanopic Lux (EML). That is because  $EML = \text{Vertical Lux} \times \text{melanopic ratio}$ . Therefore, if you reduce light levels by dimming the LEDs, you will reduce your effective EML, even when the melanopic ratio stays constant.

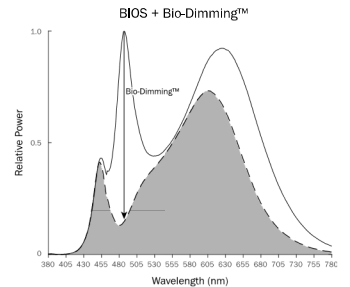
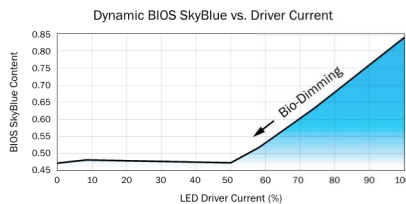
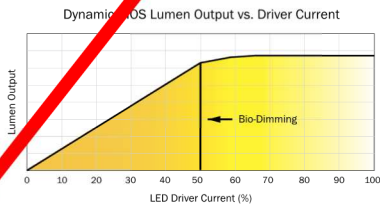
**BIOS DYNAMIC + BIO-DIMMING™ DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT	
100%* (Full On)	100%	100%	100%	Bio-Dimming
99% - 51%	100% - 0%	100%	100% - 90%	
50%	NO BIOS	100%	~90%	White LED Intensity Dimming
49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	

BIOS SkyBlue® maintained for maximum circadian impact.  
Light output remains relatively constant.

BIOS SkyBlue® removed to provide minimal circadian impact.  
White LED output dims linearly.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.



Rev 033123

**SP2.5SA - SPECIFICATIONS  
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**ALWUSA.COM  
13 of 20**



**Job Name:**  
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**Catalog Number:**  
SP2.5SA-CAP/A-S8-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
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**DRIVERS**

PRODUCT CODE	DESCRIPTION
<b>N</b>	None. Choose when indirect lambing is not desired.
<b>V00</b>	0-10V dimming down to 0% (dim to off).
<b>V01</b>	0-10V dimming down to 1%.
<b>V05</b>	0-10V dimming down to 5% (Down to 10% for TUNE lambing).
<b>P01</b>	Driver supports both TRIAC Forward Phase 2-Wire and ELV Reverse Phase 3-Wire dimming controls.
<b>LDE1</b>	(LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
<b>ELDVO</b>	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)
<b>TSERIES</b>	Lutron T-Series Tunable White Class 2 LED Driver (For use with Lutron Quantum Control Systems)
<b>ELDDW</b>	eldoLED 0/10V dim-to-warm dimming down to 0% (specify with TUNE LED lambing. Driver will be programmed with LightShape dim-to-warm setting)
<b>DALI</b>	DALI flicker-free dimming down to 0%.
<b>DMX</b>	DMX flicker-free dimming down to 0%.
<b>POEM</b>	Molex CoreSync PoE LED Driver. Contact ALW to assist with your project.
<b>POEI</b>	IGOR PoE LED Driver. Contact ALW to assist with your project.
<b>POEN</b>	NuLEDS PoE LED Driver. Contact ALW to assist with your project.
<b>POE</b>	Specify a PoE driver of your choice. Fixture comes with low voltage leads and no LED driver. Contact ALW to assist with your project

\*Most drivers can be programmed to specific dimming levels if desired. Contact ALW for specific dimming level requests.  
ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

DRIVER/LED LAMPING COMPATIBILITY							
	STD	STD/BIOS	TUNE	RGB	RGB(W)	CA TITLE 24 JAB/JA10 <sup>23</sup>	IEEE P1789 & HD TV STUDIO <sup>24</sup>
<b>V00</b>	●	●	●			●	
<b>V01</b>	●	●	●			●	
<b>V05</b>	●	●	●			●	
<b>P01</b>	●	●				●	
<b>LDE1</b>	●	●				●	●
<b>ELDVO</b>	●	●	PER REQUEST			●	●
<b>TSERIES</b>			●			●	●
<b>ELDDW</b>	●		●			●	●
<b>DALI</b>	●	●	●			●	
<b>DMX</b>	●		●		●	PER REQUEST	PER REQUEST
<b>POEM</b>			PER REQUEST			●	●
<b>POEI</b>			PER REQUEST			●	●
<b>POEN</b>			PER REQUEST			●	●

- - Indicates compatibility
- \* Standard lambing (STD) - MIN/LOW/MED/HI
- <sup>23</sup> Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lambing with applicable LED drivers have the ability to conform to California Title 24 JAB and JA10 Appendices
- <sup>24</sup> The following drivers conform to IEEE P1789 Flicker Standard: IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.





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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**

**P200-8'**

MID23-74318

**SENSORS**

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	PRODUCT CODE	DESCRIPTION	Location
	<b>N</b>	None. Choose when sensors are not desired.	-
<b>COOPER WAVELINX</b>	<b>WLNx/INT</b>	Wavelinx Wireless integral occ/daylight sensor (WaveLinx part: OEM-WAA)	Integral
	<b>WLNx</b>	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Remote
<b>ENLIGHTED™</b>	<b>ENLGHt/INT</b>	Enlighted integral connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5E-CL)	Integral
	<b>ENLGHt</b>	Enlighted® remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote
<b>LUTRON VIVE</b>	<b>VRF</b>	Lutron® Vive integral RF wireless fixture control (Lutron Part: DFCSJ-OEM-RF)	Integral
	<b>VDO</b>	Lutron® Vive integral RF wireless fixture control + daylight/occ sensor (Lutron Part: DFCSJ-OEM-OCC)	Integral
	<b>FCJS</b>	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote
	<b>FCJS/S</b>	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	Molex CoreSync PoE Integral Fixture-Mounted Sensor R - occ/daylight/temperature/humidity (Molex Part: 182091-1000)	Integral
	<b>MLX</b>	Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from	Remote
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	Fixture is built with nLight Wired integral components specified by agency. Contact ALW to review project details.	Integral
	<b>NLT</b>	Fixture is built to connect to nLight Wired remote components specified by agency. Contact ALW to review project details.	Remote
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	Fixture is built with nLight Air (Wireless) components specified by agency. Contact ALW to review project details.	Integral
	<b>NLTAIR</b>	Fixture is built to connect to nLight Air (Wireless) remote components specified by agency. Contact ALW to review project details.	Remote
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	Acuity 0-10VDC Integral occ/daylight sensor (Acuity Part: MSD 7 ADC WH) Automated Dimming Functionality Only. Manual Dimming not available. Customer to set sensor functionality in the field. Lowest dim level depends on driver.	Integral
	<b>OS/INT/HV</b>	Legrand Wattstopper <b>High Voltage</b> Integral occ/daylight on/off sensor (Part: FS-355) On/Off or Manual Dimming Functionality Only (based on occupancy and daylight). Connect fixture 0/10V wires to wall dimmer in the field. No Automated Dimming available.	Integral
	<b>OS/PH/HV</b>	Hubbell WSP <b>High Voltage</b> 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDS-UNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Remote

\*All connected lighting sensor systems must be programmed in the field by an electrical commissioner familiar with the system. Refer to the 'Sensor Compatibility' and 'Driver/Sensor Compatibility' charts to specify compatible sensors, LED lamping, and LED driver systems.



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MID23-74318

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**SENSORS CONT'D**

SENSOR COMPATIBILITY								
PRODUCT CODE		SENSOR TYPE	MAX MT HT	CA TITLE 24	STD*	TUNE	RGB	RGB(W)
<b>COOPER WAVELINX</b>	<b>WLNx/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>WLNx</b>		15 ft	●	●			
<b>ENLIGHTED™</b>	<b>ENLGHt/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●	CUSTOM REQUEST		
	<b>ENLGHt</b>	OCCUPANCY/PHOTOCELL	40 ft	●	●	CUSTOM REQUEST		
<b>LUTRON VIVE</b>	<b>VRF</b>	WIRELESS CONTROL	12 ft	●	●			
	<b>VDO</b>	OCCUPANCY/PHOTOCELL	12 ft	●	●			
	<b>FCJS</b>	WIRELESS CONTROL	12 ft	●	●			
	<b>FCJS/S/</b>	OCCUPANCY/PHOTOCELL	12 ft	●	●			
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	OCCUPANCY/PHOTOCELL TEMPERATURE/HUMIDITY	16 ft	●	●			
	<b>MLX</b>		16 ft	●	●	●	CUSTOM REQUEST	CUSTOM REQUEST
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>NLT</b>		15 ft	●	●			
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>NLTAIR</b>		15 ft (average)	●	●			
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	OCCUPANCY/PHOTOCELL	15 ft		●			
	<b>OS/INT/HV</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●	■	■	■
	<b>OS/PH/HV</b>	OCCUPANCY/PHOTOCELL	45 ft	●	●	■	■	■

● - Indicates compatibility    ■ - On/off sensor functionality only  
\*Standard Lamping (STD) - M/L/LOW/MED/HI



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**SENSORS (CONT'D)**

DRIVER/SENSOR COMPATIBILITY									
	WLNX/INT	WLNX	ENLGHT/ INT	ENLGHT	VRF	VDO	FCJS	FCJS/S /	MLX/INT
V00	●	●					●	●	
V01	●	●					●	●	
V05	●	●					●	●	
P01									
LDE1					●	●	●	●	
ELDV0									
TSERIES									
ELDDW									
DALI			●	●	●	●			
DMX									
POEM									●

- - Indicates compatibility
- ▲ - Fixture can have automated dimming via sensor OR on/off functionality and manual dimming
- - On/off sensor functionality only

DRIVER/SENSOR COMPATIBILITY CONT'D									
	MLX	NLT/INT	NLT	NLTAIR/INT	NLTAIR	OS/PH/INT	OS/INT/HV	OS/PH/HV	NO SENSOR
V00						●	■	▲	●
V01						●	■	▲	●
V05						●	■	▲	●
P01							■	■	●
LDE1		●	●	●	●	●	■	▲	●
ELDV0							■	■	●
TSERIES							■	■	●
ELDDW							■	■	●
DALI							■	■	●
DMX							■	■	●
POEM	●								●
POEI	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POEN	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE	Sensor types will depend on the PoE system configuration. Contact ALW for details.								



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-8'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**PHOTOMETRICS**

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC) <sup>25</sup> (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
CR/ASY <sup>26</sup>		2 - 2.5 ft RECOMMENDED DISTANCE FROM WALL		1.14 1.30	1328	1300
CR/BAT		6 ft	18.6	1.22 1.7	801	1200
		8 ft	10.4			
		10 ft	6.7			
		12 ft	5.0			
		14 ft	3.4			
		16 ft	2.6			
CR/AG		6 ft	39.6	.8 1.12	1424.7	1300
		8 ft	22.3			
		10 ft	14.2			
		12 ft	9.9			
		14 ft	7.3			
		16 ft	5.6			
CR/S		6 ft	25.8	1.16 1.2	927	1250
		8 ft	14.5			
		10 ft	9.3			
		12 ft	6.4			
		14 ft	4.7			
		16 ft	3.6			
BAT		0.5 ft	38	1.28 3.14	1235	1525
		1 ft	34.5			
		2 ft	27.8			
		3 ft	22.2			
		4 ft	17.6			
		5 ft	13.5			

\*Photometric calculations based on MAX 4000K 80 CRI fixture combination. Actual results may vary in the field.  
 For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#).  
<sup>25</sup>Spacing criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface.  
 Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).  
<sup>26</sup>Recommended distance from wall calculated at 10ft mounting height  
<sup>27</sup>BAT mounting height for BAT refers to distance from ceiling since BAT optic is only offered in indirect output.



**Job Name:**  
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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**

**P200-8'**

MID23-74318



**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

**ADDITIONAL OPTIONS & SPECIFICATIONS****LED PERFORMANCE**

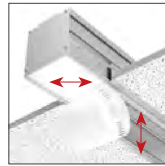
> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

**HOUSING**

100% recyclable, extruded architectural grade 6063 aluminum with a 0.09" minimum wall thickness.

**CONTROLROLL LENS OPTICS**

The optically engineered ControlRoll lens provides smooth, uniform, and seamless illumination for linear lengths of 250' while dynamically controlling output and reducing glare. The ControlRoll lens rolls out and snaps into the housing channel for easy installation.

**INDIRECT BATWING OPTIC**

A 120° rigid batwing optic can be specified for indirect lighting to achieve wide distributions of light across ceilings and to eliminate hotspots.

**SAFETY & REGULATORY**

Fixtures specified with 90CRI, 2700K, 3000K, 3500K, and 4000K lighting with applicable LED drivers have the ability to conform to **California Title 24 JAS and JASO** Appendices. EidoLED drivers can conform to IEEE P1789 Flicker Standard: IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers.

Contact [ALW customer support](#) today and we can help you with your project requirements..

ETL Listed (U.S. & Canada). Suitable for dry or damp locations.  
*For integral driver*, Conforms to UL std. 1598 luminaires,  
*For remote driver*, Conforms to UL std. 2018 luminaires.  
Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2

**WARRANTY**

Limited 5-year warranty. Details: [alwusa.com/warranty](http://alwusa.com/warranty)

**OPERATING TEMPERATURE**

Luminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from -4°F to 122°F (-20°C to 50°C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

**POWER CABLES**

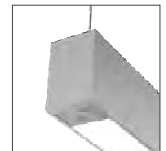
Power cables come standard in a transparent sheathing to match steel aircraft suspension cables. Please contact customer support if custom cables are required for your application. Power cables cannot be swapped in the field as it will void the ETL Safety Listing and Product Warranty.

**WEIGHT**

Approximately 3.9lbs. per linear foot. Weight may vary depending on additional options selected.

**CONTROLS, SENSORS, & LED DRIVER**

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, nLight, Cooper Wavelinx, eidoLED, Molex PoE, NuLEDS PoE, Igor PoE, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact [ALW customer support](#) today so we can review your requirements.

**WOOD VENEER**

Most ALW fixture configurations are available with **real wood veneer** as a custom request. Contact [ALW customer support](#) so we can help you with your custom wood veneer request.

Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM**  
19 of 20



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-MED/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 500 LM/  
FT. ADVISE COLOR

**Type:**  
**P200-8'**  
MID23-74318



**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

**ADDITIONAL OPTIONS & SPECIFICATIONS CONT'D**

**WOOD VENEER**

Most ALW fixture configurations are available with real wood veneer as a custom request. Contact ALW customer support so we can help you with your custom wood veneer request.

**ACOUSTICS**

Material: 0.5" (12mm) PET polyester fibers. Acoustic sound absorbers are 100% recyclable at end of life use.  
NRC Rating: Our acoustics as a 2D absorber have a Noise Reduction Coefficient of 85%. Full test reports of common layouts for 3D absorbers including NRC and Sabin values will be available shortly.  
Fire Rating: Conforms to ASTM E84 Class A. Also conforms to EN13501-1 Class B.

**CARE**

PET acoustics: Remove dust with compressed air, a vacuum or lint roller.  
Aluminum & polymer components: Remove dust and debris with clean, dry or damp lint-free cloth.





**Job Name:**  
 DUTCHESS STADIUM  
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 (ROCHESTER)

**Catalog Number:**  
 SP2.5SA-CAP/A-S4-HI/80/3500-0/10V/  
 1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
 Notes: MOD = 8" tall acoustic panel & 1000 LM/  
 FT. ADVISE COLOR

**Type:**  
**P201-4'**  
 MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
 TURF LIGHTING MATCHING BAFFLE SYSTEM  
 AS SPECIFIED. P200 & P201 FIXTURES  
 SHALL MATCH TURF BAFFLE FINISH.**

Resubmit - The unit will not be adjacent baffles as scheduled documents. TURF baffles are an option.



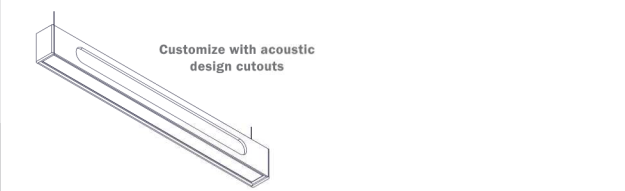
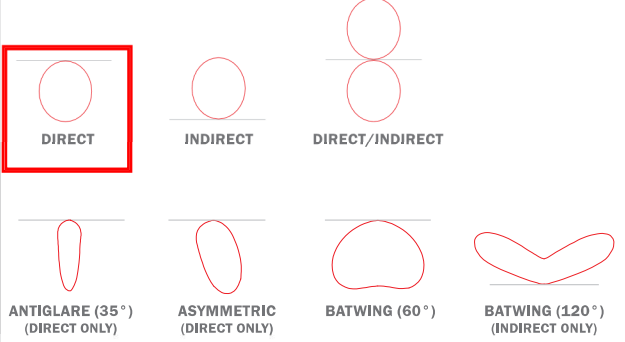
**SPECIFICATIONS**

<b>PROFILE</b>	2.5" Aperture, 3.93" total width
<b>SIZES</b>	2ft - 8ft sections
<b>LED OUTPUT</b>	350lm/ft - 1,525lm/ft
<b>CCT/CRI</b>	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W
<b>DIMMING/ DRIVER</b>	Integral and Remote Driver • 0-10V, DALI, DMX, eidoLED, Lutron®, PoE (Moxel, Igor, NuLEDs). Dimming to 0% for select models.
<b>POWER</b>	3.1W - 10.7W per ft.
<b>INPUT</b>	120VAC, 277VAC, or 347VAC
<b>OPTICS</b>	Control Optics - Continuous lens up to 250ft. Direct/indirect. Lambertian, Asymmetric, Batwing and Anglared/Grazer optics available.
<b>FINISHES</b>	10 standard acoustic colors. 18 standard finishes at no extra charge. Custom finishes available.
<b>MATERIAL</b>	6063-T6 Extruded Aluminum. 0.5" PET polyester felt.
<b>ENVIRONMENT</b>	Dry or damp locations

**WELL/UGR** See pages 8-9 for recommended options that contribute to meeting the WELL Building Standard™. UGR values available under 'Glare Control' on page 8.

\*Safety and Performance information available on last two pages. Output and other specifications available on pages 10-11.

**DISTRIBUTIONS & PROFILES**



Not to scale. Dimensions are nominal. Consult factory for CAD drawing



Rev 033123

**SP2.5SA - SPECIFICATIONS  
 SUSPENDED**

**ALWUSA.COM  
 1 of 20**





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/FT. ADVISE COLOR

**Type:**  
**P201-4'**

MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE TURF LIGHTING MATCHING BAFFLE SYSTEM AS SPECIFIED. P200 & P201 FIXTURES SHALL MATCH TURF BAFFLE FINISH.**



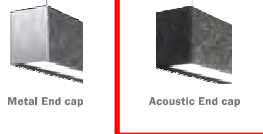
**PRODUCT SPECIFICATION SHEET**

1	2	4a	4b	4c	5	6	7a	7b	7c	8	9	10	11	12	13	14
1.5a	1.5b	1.5c														

**EXAMPLE: SP2.5SA - CAP/M - S5 - MED/90/3500 - V00 - CR/S - LOW/90/3500 - 100 - CR/S - ACW - DCSTM**

**GW - GW - UNV - EMB/1 - FCJS/1 - SB**

<b>1. BASE MODEL</b> SP2.5SA 2.5" aperture, 3.93" total width Suspended Acoustic	<b>2. END CAP* (CHOOSE 1)</b> CAP/M Metal End Cap CAP/A Acoustic End Cap <small>*Add an aesthetic touch with a brushed or powder coated end cap. Metal end caps are not available for indirect only lamping option.</small>	<b>3. NOMINAL LENGTH* (ENTER LENGTH IN FEET)</b> s 4' <small>Individual/Straight Run section from 2-8ft (enter length in product code above, ex. S5) *Lengths are nominal. To ensure lengths match the exact lengths of other fixtures and/or sound baffles on the project it's recommended to include all products on a single purchase order, provide ROP (Reflective Ceiling Plan), and any additional details for ALW to review.</small>	<b>4. LED LAMPING - DIRECT* (CHOOSE 1 FOR EACH)</b> A. OUTPUT <sup>1</sup> B. CRI <sup>2</sup> C. CCT <sup>2</sup> MIN (350 lm/ft) NO CRI/CCT <sup>3</sup> 2700K <sup>4</sup> LOW (475 lm/ft) 80 3000K <sup>4</sup> MED (775 lm/ft) 90 3000K <sup>4</sup> HI (1050 lm/ft) BIOS <sup>5</sup> (STATIC BIOS) 3500K <sup>4</sup> MAX (1250 lm/ft) 4000K <sup>4</sup> RGB (140 lm/ft) BIOSD <sup>6</sup> (DYNAMIC BIOS) TUNE (2700K-6500K, 90 CRI, 475/515 lm/ft) RGBW (3500K, White, 80 CRI, 140/220 lm/ft) CSTM_____ <sup>6</sup> (Enter lumens in product code above, Ex. 0100=100lm/ft)
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<b>5. DRIVER - DIRECT* (CHOOSE 1)</b> QS N (None) QS V00 (dim to off) QS V01 (0-10V, dim to 1%) QS V05 (0-10V, dim to 5%) LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%) P01 (ELV/TRIAC phase dim to 1%) T SERIES (Lutron tuneable white) ELDVO (eldoLED 0-10V dim to 0%) ELDDW (eldoLED dim to warm) DALI (DALI, dim to 0%) DMX (DMX, dim to 0%) POEM (POE Molex) POEI (POE IGOR) POEN (POE Nuleds) POE (POE Ready)	<b>6. LENS - DIRECT</b> N None. CR/S ControlRoll lens with diffused, lambertian distribution CR/ASY ControlRoll lens with asymmetric/wall wash distribution (peak intensity 60°) CR/BAT ControlRoll lens with batwing/floor distribution (peak intensity 60°) CR/AG ControlRoll lens with antiglare/grazer optics (35° distribution) <small>*Select when direct lamping is not desired. The lens will be substituted with an aluminum lid with same finish as fixture. *Not available for TUNE, RGB, RGBW, BIOS, or BIOSD lamping.</small>	<b>7. LED LAMPING - INDIRECT* (CHOOSE 1 FOR EA.)</b> A. OUTPUT B. CRI <sup>2</sup> C. CCT <sup>2</sup> MIN (370 lm/ft) NO CRI/CCT <sup>3</sup> LOW (500 lm/ft) 80 2700K <sup>4</sup> MED (775 lm/ft) 90 3000K <sup>4</sup> HI (1050 lm/ft) BIOS <sup>5</sup> (STATIC BIOS) 3500K <sup>4</sup> MAX (1300 lm/ft) 4000K <sup>4</sup> RGB (150 lm/ft) BIOSD <sup>6</sup> (DYNAMIC BIOS) TUNE (2700K-6500K, 90 CRI, 490/530 lm/ft) RGBW (3500K, White, 80 CRI, 150/325 lm/ft) CSTM_____ <sup>6</sup> (Enter lumens in product code above, Ex. 0100=100lm/ft)	<b>8. DRIVER - INDIRECT* (CHOOSE 1)</b> QS N (None) QS V00 (dim to off) QS V01 (0-10V, dim to 1%) QS V05 (0-10V, dim to 5%) LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%) P01 (ELV/TRIAC phase dim to 1%) T SERIES (Lutron tuneable white) ELDVO (eldoLED 0-10V dim to 0%) ELDDW (eldoLED dim to warm) DALI (DALI, dim to 0%) DMX (DMX, dim to 0%) POEM (POE Molex) POEI (POE IGOR) POEN (POE Nuleds) POE (POE Ready)
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<b>9. LENS - INDIRECT (CHOOSE 1)</b> N <sup>10</sup> None. CR/S ControlRoll lens with diffused, lambertian distribution CR/BAT ControlRoll lens with batwing/floor distribution (peak intensity 60°) BAT <sup>11</sup> Rigid batwing optic (peak intensity 120°) <small><sup>10</sup>Lens will be substituted with an aluminum lid with same finish as fixture. <sup>11</sup>Not available for TUNE, RGB, RGBW, BIOS, or BIOSD</small>	<b>10. ACOUSTIC FINISH* (CHOOSE 1)</b> ACW Crystal White AMW Marble White AHG Heather Gray ACG Charcoal Gray AJB Jet Black AIW Ivory White AAG Aloe Green ATO Titan Orange ASR Scarlet Red AMB Midnight Blue <small>*See page 7 for larger swatches and additional information</small>	<b>11. ACOUSTIC DESIGN (CHOOSE 1)</b> N None, Choose for a solid acoustic insert. DCSTM Custom Design (See template on page 5) 	<b>12. FIXTURE FINISH* (CHOOSE 1)</b> <b>STANDARD FINISHES</b> AL <sup>12</sup> Anodized Aluminum SW Satin White SB Satin Black See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze) <b>SPECIAL ORDER FINISHES*</b> RAL Specify RAL Classic Color (Ex: RAL 3003) - CAT Specify Catalog Colors CMM Custom Color Match <small>*Manually type in the finish code for special order finishes. <sup>12</sup>Unless specified otherwise, Anodized Aluminum finish is provided by default for Solid Acoustic Designs. If an Acoustic Design Cutout (DCSTM) is desired, specify any other finish.</small>
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**ADVISE**

CONTINUES ON NEXT PAGE

**SP2.5SA - SPECIFICATIONS SUSPENDED**

ALWUSA.COM  
2 of 20



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-4'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**PRODUCT SPECIFICATION SHEET CONT'D**

13. FINISH - END CAP (CHOOSE 1)	14. VOLTAGE (CHOOSE 1)	15a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)
<b>N<sup>13</sup></b> None.  <b>STANDARD FINISHES</b> <b>LB</b> <input type="checkbox"/> Light Brushed Aluminum <b>SW</b> <input type="checkbox"/> Satin White <b>SB</b> <input checked="" type="checkbox"/> Satin Black — See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze)  <b>SPECIAL ORDER FINISHES*</b> <b>RAL</b> ____ Specify RAL Classic Color (Ex: RAL 3003) - <b>CAT</b> ____ Specify Catalog Colors <b>CCM</b> ____ Custom Color Match	<b>UNV</b> Universal Voltage (120VAC-277VAC) <b>347</b> 347 Volt (Driver options may be limited. Not available with EMB)	<b>EMB/</b> __ <sup>14</sup> Emergency Battery (indicate QTY – each battery powers 4ft. section @ 1492lm. Not available in 347 V)  <b>EMC/</b> __ <sup>14</sup> Emergency Circuit ( indicate QTY of 4ft sections to be illuminated by emergency circuit)  <small><sup>14</sup>For fixtures under 4ft in length, entire fixture will be illuminated with a proportional lumen output. Consult ALW for more details.</small>

\*Manually type in the finish code for special order finishes.  
**13**Select when specifying acoustic end cap.

15b. SENSOR OPTIONS* (OPTIONAL, CHOOSE 1)	15c. ADDITIONAL OPTIONS (OPTIONAL)
<b>N</b> (None) <b>WLN</b> X/INT/___ (Cooper Wavelinx, integral) <b>WLN</b> X/___ (Cooper Wavelinx, remote) <b>ENL</b> GHT/___ (Enlighted, remote) <b>ENL</b> GHT/INT/___ (Enlighted, integral) <b>VRF</b> /___ (Lutron Vive, integral) <b>VDO</b> /___ (Lutron Vive, integral+ occ/daylight sensor) <b>FCJS</b> /___ (Lutron, remote) <b>FCJS</b> /S/___ (Lutron, remote + occ/daylight sensor) <b>MLX</b> /INT/___ (Molex POE, integral)  <b>MLX</b> (Molex POE, remote) <b>NLT</b> /INT/___ (nLight wired, integral occ/daylight sensor) <b>NLT</b> (nLight wired remote connection) <b>NLTAIR</b> /INT/___ (nLight AIR, integral) <b>NLTAIR</b> (nLight AIR, remote connection) <b>OS/PH</b> /INT/___ (Acuity 0-10V, integral occ/daylight sensor) <b>OS/INT/HV</b> /___ (Legrand Workstopper High Voltage integral occ/daylight sensor) <b>OS/PH/HV</b> /___ (Hubbell WASP remote occ/daylight sensor)	<b>SB</b> Seismic Bracing

\*Quickship availability on occupancy and photocell/daylight sensors may vary, Contact ALW for more information.  
Default quantity is 1 sensor per 8ft. type alternate quantity into product code above if desired. See sensor descriptions available on page 15.  
Not all sensors are compatible with all drivers. See "Driver", "Sensor" and lamping charts for driver details and sensor compatibility.



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-4'**

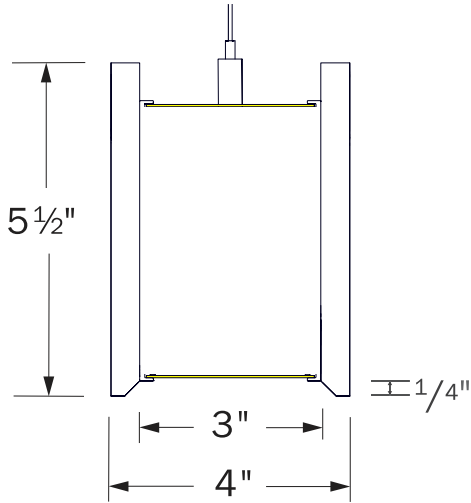
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

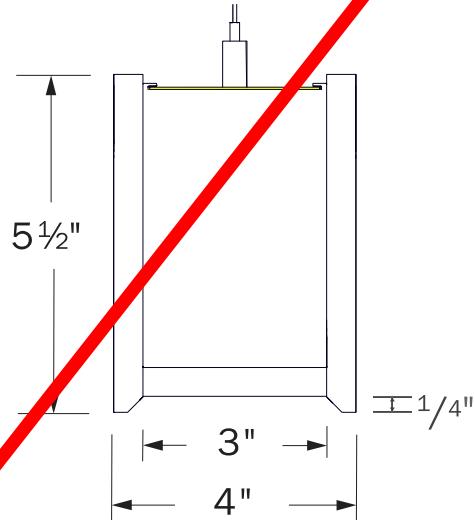


**MECHANICAL DIAGRAMS**

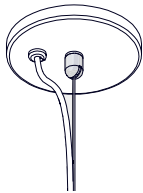
**DIRECT OR DIRECT/INDIRECT**



**INDIRECT ONLY**

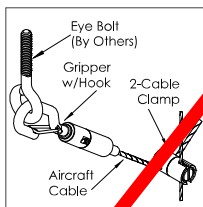


**SUSPENSION MOUNTING OPTIONS**



**CEILING HARDWARE**

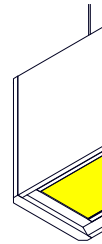
- 4.5" canopy per power feed location. Canopy finish is always white. Contact ALW for alternate color.
- Bullet mount.
- 8' aircraft cable
- 2" canopy (for use with T-bar mounting) per suspension point



**SEISMIC BRACING (SB)**

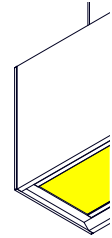
Add-on hardware includes cable gripper with hook, 2-cable clamp and specified length of aircraft cable per suspension point.

**ACOUSTIC END CAP**



Available with Direct, Indirect, or Direct/Indirect Lamping. When Indirect Only is specified an acoustic lid will be installed on the direct lamping side.

**METAL END CAP**



Available with Direct or Direct/Indirect Lamping. Metal end caps are not available for Indirect Only Lamping.

**Job Name:**

DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S4-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

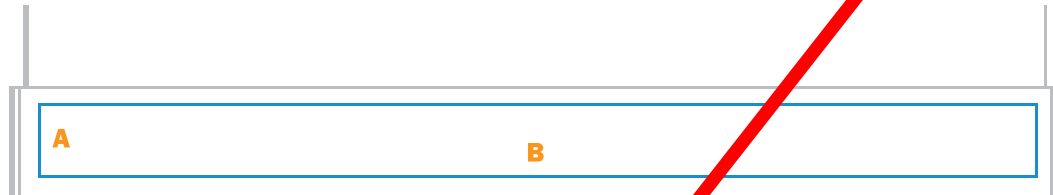
**Type:****P201-4'**

MID23-74318

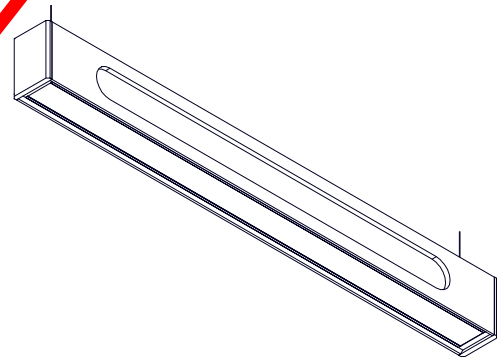
**CUSTOM ACOUSTIC PATTERNS**

Choose from a solid sound absorbing baffle or create your own custom designs by following the instructions and template guidelines below. Gray areas indicate templates for acoustic pattern cutouts.

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



DIMENSION	BASE MODEL	CUT OUT AREA
<b>A</b>	<b>SP2.5SA</b> - 5.5" height	3.5"
	<b>S2</b> - 2' (24") length	22"
	<b>S3</b> - 3' (36") length	34"
	<b>S4</b> - 4' (48") length	46"
<b>B</b>	<b>S5</b> - 5' (60") length	58"
	<b>S6</b> - 6' (72") length	70"
	<b>S7</b> - 7' (84") length	82"
	<b>S8</b> - 8' (96") length	94"

**HOW TO SUBMIT YOUR CUSTOM ACOUSTIC PATTERN?****1. DOWNLOAD THE ACOUSTIC CUSTOM PATTERN .ZIP FILE ON THE PRODUCT PAGE**

Open the appropriate .ai (Adobe Illustrator) or CAD .dxf file.

**2. INPUT YOUR DESIGN WITHIN THE TEMPLATE AREA.**

Template area will be marked with a dashed perimeter.

**3. SAVE YOUR FILE INCLUDE THE PROJECT NAME AND OTHER SUPPORTING INFO AT THE END OF THE FILE NAME.**

For example, "SP2.5SA Custom Acoustic Design Template - Project ALW".

**4. SUBMIT FILES BELOW TO ALW FOR REVIEW.**

1. Acoustic Design Template File
2. Product Code and Quantities



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-4'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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**STANDARD FINISHES**

Standard finishes are available at no additional charge.

**ALUMINUM**



Anodized Aluminum

\* Only for Fixture finish



Light Brushed Aluminum

\* Only for End Cap finish

**BASIC POWDER COAT**



Gloss White



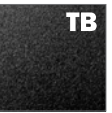
Satin White



Antimicrobial Satin White



Textured Matte White



Textured Matte Black

**METALLIC POWDER COAT**



Silver Gray



Charcoal Gray



Copper



Brass

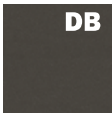
**SATIN ANODIZED EFFECT POWDER COAT**



Clear Silver



Oil-Rubbed Bronze



Dark Bronze



Satin Black

**GLOSS POWDER COAT (80-95% GLOSS)**



Orange RAL 2003



Red RAL 3020



Magenta RAL 4010



Blue RAL 5015

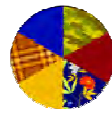
Contact ALW Quotes for sample paint finish swatches.

**SPECIAL ORDER FINISHES\***



**RAL CLASSIC COLORS (80-95% GLOSS): RAL\_ \_ \_ \_**

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003). See [www.alwusa.com/finishes](http://www.alwusa.com/finishes)



**CUSTOM COLOR MATCH: CCM\_ \_ \_ \_**

Custom powder coat color matching is available for a premium setup fee. Consult [ALW](http://www.alwusa.com) for additional information.



**CATALOG COLORS: CAT\_ \_ \_ \_**

The complete range of powder coat colors from [Tiger Drylac](#) and [TCL](#) catalogs are available for a minimum setup fee. Consult ALW for a catalog color you would like to specify.

\*An individual setup fee will apply to each unique Special Order Finish per purchase order. (ex: RAL 5008 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)

\*Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying)



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-4'**  
MID23-74318

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SHALL MATCH TURF BAFFLE FINISH.**



**ACOUSTIC FINISHES**

**ACOUSTIC COLORS & INFORMATION** **ADVISE COLOR**

The Harmonic Collection features 10 acoustic material colors comprised of ~0.5" (12mm) PET polyester fibers, specially designed for premium sound absorption. ALW's PET acoustics as a 2D absorber have a NRC (Noise Reduction Coefficient) of 85%. Each panel is precision-cut to size using our CNC-cutting process, enabling a wealth of design options from beveled edges to custom cutouts. All panels conform to ASTM E84 Class A and EN13501-1 Class B fire ratings.



**COMPANION ACOUSTIC COLORS & RAL FINISHES**

The chart below outlines suggested RAL finishes to complement the acoustic colors above. With exception to ALW Satin Black and Satin White these RAL suggestions are not standard paint finish offerings. See next page for ALW's full paint finish catalog.

ACOUSTIC COLOR	COMPANION RAL FINISHES	ACOUSTIC COLOR	COMPANION RAL FINISHES
Crystal White	ALW Satin Black (SB) ALW Satin White (SW)	Ivory White	ALW Satin Black (SB) ALW Satin White (SW)
Marble White	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Aloe Green	RAL 6025 - Fern Green (slightly darker shade than acoustic) RAL 7013 - Brown Grey ALW Satin Black (SB) ALW Satin White (SW)
Heather Gray	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Titan Orange	RAL 2011 - Deep Orange RAL 5003 - Sapphire Blue RAL 5008 - Grey Blue RAL 8011 - Nut Brow RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Charcoal Gray	RAL 7021 - Black Grey RAL 7024 - Graphite Grey ALW Satin Black (SB) ALW Satin White (SW)	Scarlet Red	RAL 3031 - Orient Red RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Jet Black	ALW Satin Black (SB) ALW Satin White (SW)	Midnight Blue	RAL 5002 - Ultramarine Blue RAL 2011 - Deep Orange RAL 4010 - Magenta RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)



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FT. ADVISE COLOR

**Type:****P201-4'**

MID23-74318

**SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™**

ALW is committed to providing the highest quality luminaires for a multitude of applications, with many versatile lighting solutions that contribute to satisfying the WELL Building Standard. Below is a quick guide to assist you in specifying appropriate product configurations for WELL features. Links to official WELL standards can be found [here](#).

**CIRCADIAN LIGHTING DESIGN  
FEATURE L03**

The Circadian Lighting Design feature requires projects to provide users with appropriate exposure to light for maintaining circadian health and aligning the circadian rhythm with the day-night cycle.

To conform to these requirements, the project must meet one of the following 4 light level options (a, b, c, or d) below. These light levels are measured on the vertical plane at eye level of the occupant. The light levels are achieved at least between the hours of 9 a.m. and 1 p.m. and may be lowered after 8 p.m. at night.

DESIGNING WITH ELECTRIC LIGHT ONLY	DESIGNING WITH BOTH ELECTRIC LIGHT & DAYLIGHT	POINTS
a. At least 150 EML [136 melanopic equivalent daylight D65]	b. The project achieves at least 120 EML [109 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	1
c. At least 240 EML [218 melanopic equivalent daylight D65]	d. The project achieves at least 180 EML [163 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	3

Choose from a BIOS Static or BIOS Dynamic light engine to assist in a healthy, circadian lighting design. CCT, CRI, Luminous Flux Multipliers, and Melanopic Ratios are shown below for easy specification.

CIRCADIAN LIGHTING DESIGN (3PT MAX)	BIOS STATIC (BIOS)			BIOS DYNAMIC (BIOSD)			HOW TO SPECIFY
<b>CCT</b>	3000K	3500K	4000K	3000K	3500K	4000K	1. Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b> 2. Select the appropriate Lumen <b>OUTPUT</b> 3. Select the appropriate <b>CCT</b>
<b>CRI / R9</b>	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	
<b>LUMINOUS FLUX MULTIPLIER</b>	0.95	0.98	1.00	0.95	0.98	1.00	See BIOS LED Lamping and Performance Details at the back of this spec sheet for lumen outputs, COI index values, and other additional information.
<b>MELANOPIC RATIO (R)*</b>	0.70	0.80	0.90	0.74	0.83	0.95	

**GLARE CONTROL  
FEATURE L04**

Glare is defined as excessive brightness of a light-source, excessive brightness-contrasts and excessive quantities of light. Glare has been associated with a host of health issues that range from visual discomfort and eye fatigue to headaches and migraines.

To conform to Glare Control requirements, each luminaire must meet one of the following options (a, b, or d) for regularly occupied spaces.

GLARE CONTROL CRITERIA (3PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. Indirect (100% emission above horizontal)	✓	100%	1. Select <b>N</b> (None) for <b>LED LAMPING - DIRECT</b> 2. Select <b>any of the options</b> for <b>LED LAMPING - INDIRECT</b>
b. Unified Glare Rating (UGR)*	✓	14.67 @ 16ft (MAX Output) 12.63 @ 20ft (MAX Output)	1. Select <b>ANY</b> output for <b>LED LAMPING - DIRECT</b> 2. Select <b>CR/S</b> (ControlRoll Diffused Lens) or <b>CR/AG</b> (ControlRoll Antiglare Lens) for <b>LENS</b>
c. Shielding Angle	No	-	-
d. Max. Luminance (45°-90°) Max. Intensity (45°-90°)	✓	4668 cd/m <sup>2</sup> @ MED Output 312.21 cd @ MED Output	1. Select an output of <b>MIN</b> or <b>MED</b> for <b>LED LAMPING - DIRECT</b> 2. Select <b>CR/AG</b> (ControlRoll Antiglare Lens) for <b>LENS</b>

\*Advertised UGR values are averages and were calculated in AGI32 using the following method: 1) A 5.4m x 3.6m room was created and fixtures were spaced 2m apart center-to-center. Calculations were performed at 16ft. and 20ft.

Rev 033123

**SP2.5SA - SPECIFICATIONS**  
**SUSPENDED**

**ALWUSA.COM**  
**8 of 20**





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S4-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**

**P201-4'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™ (CONTINUED)

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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### ELECTRIC LIGHT QUALITY - PART 1: COLOR RENDERING QUALITY + PART 2: FLICKER FEATURE L07

Using light sources that have characteristics similar to daylight, including high color rendering and minimal flicker can improve comfort and well-being of users in a space and contribute to creating a healthy environment.

Part 1: Each luminaire must meet one of the following requirements (a or b) for regularly occupied spaces.

Part 2: Each luminaire must meet the IEEE 1789-2015 Standard Recommended Practice to manage flicker.

PART 1 - ENSURE COLOR RENDERING QUALITY (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. CRI > 90	✓	CRI = 93 - 95	• Select <b>90</b> (90CRI) for <b>LED LAMPING</b>
b. CRI > 80 with R9 > 50	✓	CRI = 83, R9 > 90	• Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b>
c. IES Rf ≥ 78, IES Rg ≥ 100, -1% ≤ IES Rcs, h1 ≤ 15%	No	-	-
PART 2 - MANAGE FLICKER (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
Meets IEEE 1789-2015 Standard Recommended Practice	✓	Modulation = 1% Flicker Frequency = 120/2000Hz	• Select <b>V05, V01, LDE1, DALI</b> or <b>DMX</b> for <b>LED DRIVER</b>

### SOUND ABSORPTION - PART 1: MEET THRESHOLDS FOR REVERBERATION TIME + PART 2: IMPLEMENT SOUND REDUCING CEILINGS FEATURE S04

Sound absorbing spaces help alleviate undesirable noise, reduce stress, and increase comfort, productivity, and morale.

Part 1: All spaces except dwelling units meet the maximum Reverberation Time (60) thresholds in the table below.

Part 2: All spaces except dwelling units have ceiling treatment that meets the minimum Noise Reduction Coefficient NRC/  $\alpha_w$  values described below.

PART 1 - MEET THRESHOLDS FOR REVERBERATION TIME (1PT MAX)			
ROOM TYPE	SIZE	RT(60) (SECONDS)	HOW TO SPECIFY
Conference Rooms	N/A	CRI = 93 - 95	
Classrooms	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 0.6	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.5 to 0.8	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.6 to 1.0	
Lecture Halls	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 0.7	• Acoustic products in ALW's Harmonic Collection can contribute to meeting this WELL feature. Ensure to hire an acoustician to help specify products and layouts to meet the requirements of this WELL feature.
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.6 to 0.9	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.7 to 1.3	
Music Rehearsal Spaces	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 1.1	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	1.0 to 1.4	
Fitness Facilities	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	0.7 to 0.8	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.8 to 1.1	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	1.0 to 1.8	
PART 2 - IMPLEMENT SOUND REDUCING CEILINGS (1PT MAX)			
SPACE TYPE	NRC/ $\alpha_w$		HOW TO SPECIFY
Open Workspaces Enclosed Offices Dining Spaces	0.7 for at least 75% of available ceiling area		• Acoustic products in ALW's Harmonic Collection can contribute to meeting this WELL feature. Ensure to hire an acoustician to help specify products and layouts to meet the requirements of this WELL feature.
Conference Rooms Classrooms	0.7 for at least 80% of available ceiling area		

Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

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9 of 20



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-4'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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SHALL MATCH TURF BAFFLE FINISH.



**PERFORMANCE DETAILS**

OUTPUT	OPTIC TYPE	DELIVERED LUMENS/FT		EFFICACY (LM/W)		WATTS/FT <sup>15</sup>	CRI OPTIONS	CCT OPTIONS
		DIRECT	INDIRECT	DIRECT	INDIRECT			
MIN <sup>16</sup>	CR/S	350	370	113	119	3.1	80+ 90+	2700K (90CRI Only) 3000K 3500K 4000K 5000K
	CR/ASY	370	N/A	119	N/A			
	CR/BAT	350	350	113	113			
	CR/AG	370	N/A	119	N/A			
	BAT	N/A	440	N/A	142			
LOW <sup>16</sup>	CR/S	475	500	113	119	4.2		
	CR/ASY	500	N/A	119	N/A			
	CR/BAT	470	490	112	117			
	CR/AG	500	N/A	119	N/A			
	BAT	N/A	580	N/A	138			
MED <sup>16</sup>	CR/S	750	775	115	119	6.5		
	CR/ASY	775	N/A	119	N/A			
	CR/BAT	735	750	113	115			
	CR/AG	775	N/A	119	N/A			
	BAT	N/A	920	N/A	142			
HI <sup>16</sup>	CR/S	1030	1050	117	119	8.8		
	CR/ASY	1050	N/A	119	N/A			
	CR/BAT	1000	1030	114	117			
	CR/AG	1050	N/A	119	N/A			
	BAT	N/A	1250	N/A	142			
MAX <sup>16</sup>	CR/S	1250	1300	117	121	10.7		
	CR/ASY	1300	N/A	121	N/A			
	CR/BAT	1200	1250	112	117			
	CR/AG	1300	N/A	121	N/A			
	BAT	N/A	1525	N/A	143			
TUNE	CR/S	WW: 475, CW: 515	WW: 490, CW: 530	WW: 113, CW: 123	WW: 117, CW: 126	4.2/channel	90+	2700K - 6500K
	CR/ASY	WW: 490, CW: 530	N/A	WW: 117, CW: 126	N/A			
	CR/BAT	WW: 475, CW: 500	WW: 480, CW: 520	WW: 110, CW: 119	WW: 114, CW: 124			
	CR/AG	WW: 490, CW: 550	N/A	WW: 117, CW: 131	N/A			
	BAT	N/A	N/A	N/A	N/A			
RGB <sup>17</sup>	CR/S	140	150	28	30	5	N/A	N/A
	CR/ASY	140	N/A	28	N/A			
	CR/BAT	140	150	28	34			
	CR/AG	140	N/A	28	N/A			
	BAT	N/A	N/A	N/A	N/A			
RGB+W <sup>18</sup>	CR/S	RGB: 140, W: 220	RGB: 150, W: 325	RGB: 28, W: 44	RGB: 30, W: 65	5	80+ (White Chip)	3500K (White Chip)
	CR/ASY	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			
	CR/BAT	RGB: 140, W: 220	RGB: 150, W: 230	RGB: 28, W: 44	RGB: 30, W: 46			
	CR/AG	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			
	BAT	N/A	N/A	N/A	N/A			

<sup>15</sup>Lumens/Watt and Watts/ft have been calculated assuming a driver efficiency of 85%. Depending on field conditions, actual measured values may fluctuate by 5-8%.  
<sup>16</sup>Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.  
<sup>17</sup>Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue).  
<sup>18</sup>Performance calculations are derived from the following LM-79 tests: 1) RGB LEDs illuminated, 2) RGB+W LEDs illuminated, 3) White LED only illuminated.



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FT. ADVISE COLOR

**Type:****P201-4'**

MID23-74318



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**TM-30-18 DETAILS (90 CRI LAMPING)**

CCT	CRI (Ra)	CRI (R9)	TM-30 Rf	TM-30 Rg	Duv
<b>2700K</b>	94	57	92	100	-0.0012
<b>3000K</b>	93	55	91	100	-0.0012
<b>3500K</b>	93	55	90	98	-0.0002
<b>4000K</b>	92	58	89	97	-0.0003



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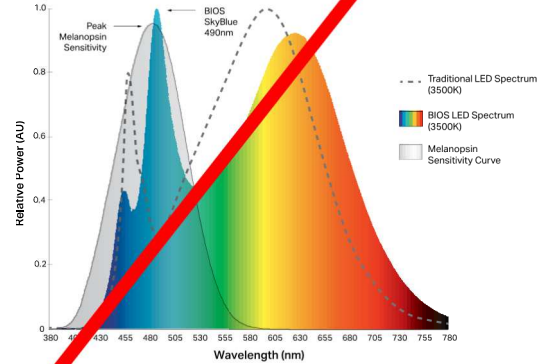


**BIOS OVERVIEW**



BIOS SkyBlue® technology is designed to provide the specific circadian stimulus required to improve overall sleep by featuring a distinct peak in the 'skyblue' spectral power at 490nm. Unlike traditional white LEDs, BIOS SkyBlue® makes it possible to achieve high EML (Equivalent Melanopic Lux) and Melanopic/Photopic ratios without harsh CCTs or high, glare-inducing light levels.

BIOS light engines are available in **Static** or **Dynamic** options for use with a variety of applications. In Static light engines, the SkyBlue 490nm signal always remains on while the fixture is powered. Dynamic options include a dynamic board and Bio-Dimmer module to allow the user to dim-out the SkyBlue 490nm signal during night time hours.



	BIOS STATIC (BIOS)	BIOS DYNAMIC + BIO-DIMMING™ (BIOSD)
<b>DESCRIPTION</b>	490nm SkyBlue light signal always remains on while the fixture is powered.	Dynamic light engine with Bio-Dimming add the ability to fine-tune and dim-out the 490nm SkyBlue signal during night time hours or as desired.
<b>TYPICAL APPLICATIONS</b>	Environments typically occupied only during daylight hours (6am-6pm) such as offices and schools.	Environments occupied for a 24-hour period such as hospitals, security facilities, behavioral health facilities, factories, etc.
<b>CONTROLS &amp; DIMMING*</b>	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS melanopic ratio remains constant as you dim down the light intensity.	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS SkyBlue® LED can be dimmed-out using a standard control/dimmer.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.

**BIOS LED LAMPING DETAILS (STATIC OR DYNAMIC)**

OUTPUT	DELIVERED LUMENS (LM/FT) DIRECT	DELIVERED LUMENS (LM/FT) INDIRECT	EFFICACY (LM/W) DIRECT	EFFICACY (LM/W) INDIRECT	WATTS (W/FT)	CRI
	CR/S CR/ASY CR/BAT CR/AG	CR/S CR/BAT BAT	CR/S CR/ASY CR/BAT CR/AG	CR/S CR/BAT BAT		
<b>MIN<sup>17</sup></b>	350	370	113	119	3.1	82+
	370	350	119	113		
	350	490	113	142		
	370	-	119	-		
<b>LOW<sup>17</sup></b>	475	500	113	119	4.2	
	500	490	119	117		
	470	580	112	138		
	500	-	119	-		
<b>MED<sup>17</sup></b>	775	775	115	119	6.5	
	775	750	119	115		
	735	920	113	142		
	775	-	119	-		
<b>HI<sup>17</sup></b>	1030	1050	117	119	8.8	
	1050	1030	119	117		
	1000	1250	114	142		
	1050	-	119	-		
<b>MAX<sup>17</sup></b>	1250	1300	117	121	10.7	
	1300	1250	121	117		
	1200	1525	112	143		
	1300	-	121	-		

**BIOS LED PERFORMANCE DETAILS**

CCT	CRI (Ra) <small>Static BIOS Dynamic BIOS</small>	CRI (R9) <small>Static BIOS Dynamic BIOS</small>	DAYTIME M/P RATIO <sup>20</sup> <small>Static BIOS Dynamic BIOS</small>	NIGHTTIME M/P RATIO <sup>21</sup> <small>Static BIOS Dynamic BIOS</small>	COI <sup>22</sup> <small>Static BIOS Dynamic BIOS</small>
<b>3000K</b>	82	94	0.70	0.70	3.0
	83	90	0.73	0.45	3.3
<b>3500K</b>	83	91	0.80	0.80	3.1
	83	90	0.84	0.50	3.1
<b>4000K</b>	83	91	0.90	0.90	3.1
	83	90	0.95	0.55	3.1

<sup>19</sup>Performance calculations are based on LM-79 test of BIOS 4000K, MAX output. MIN, LOW, MED and HIGH calculations are extrapolated values.

<sup>20</sup>Melanopic to photopic (M/P) ratios are used to help calculate equivalent melanopic lux (EML) values which is the metric used for circadian lighting in the WELL™ Building Standard.

<sup>21</sup>Static LED nighttime M/P ratios remain the same as daytime M/P ratios as BIOS SkyBlue® always remains at full output.

<sup>22</sup>BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

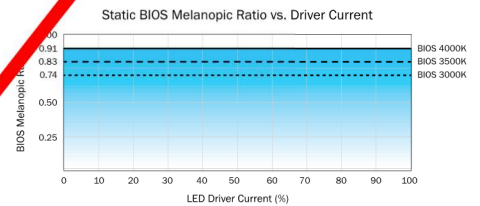
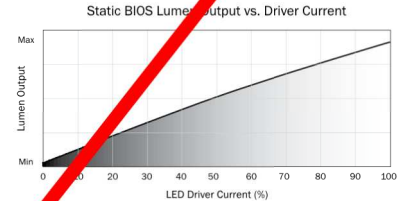
**Type:**  
**P201-4'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



**BIOS STATIC DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	LIGHT OUTPUT* (BIOS SKYBLUE® + WHITE LED)		BIOS + White LED Intensity Dimming
100%* (Full On)	100%		
99% - 51%	Linear Dimming 99% - 51%		
50%	Linear Dimming 50%		
49% - 0%	Linear Dimming 49% - 0%		



BIOS SkyBlue® LED and White LED dim with a 1-to-1 ratio.

\*While melanopic ratio remains constant, dimming/reducing light output will have an overall impact on Equivalent Melanopic Lux (EML). That is because  $EML = \text{Vertical Lux} \times \text{melanopic ratio}$ . Therefore, if you reduce light levels by dimming the LEDs, you will reduce your effective EML, even when the melanopic ratio stays constant.

**BIOS DYNAMIC + BIO-DIMMING™ DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT	
100%* (Full On)	100%	100%	100%	Bio-Dimming
99% - 51%	100% - 0%	100%	100% - 90%	
50%	NO BIOS	100%	~90%	White LED Intensity Dimming
49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	

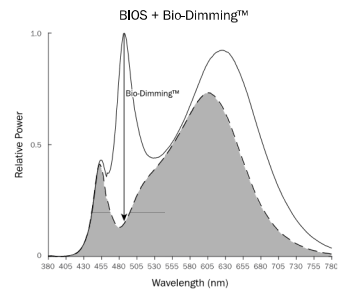
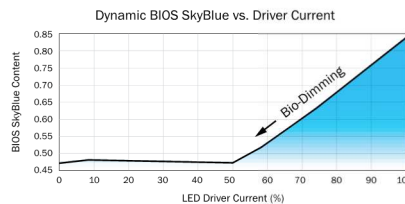
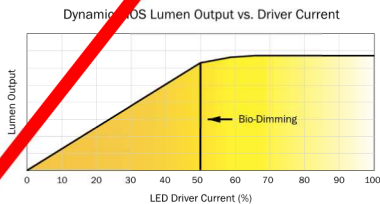
BIOS SkyBlue® maintained for maximum circadian impact.

Light output remains relatively constant.

BIOS SkyBlue® removed to provide minimal circadian impact.

White LED output dims linearly.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.



Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM  
13 of 20**



**Job Name:**  
DUTCHESS STADIUM  
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(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-4'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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SHALL MATCH TURF BAFFLE FINISH.



**DRIVERS**

PRODUCT CODE	DESCRIPTION
<b>N</b>	None. Choose when indirect lambing is not desired.
<b>V00</b>	0-10V dimming down to 0% (dim to off).
<b>V01</b>	0-10V dimming down to 1%.
<b>V05</b>	0-10V dimming down to 5% (Down to 10% for TUNE lambing).
<b>P01</b>	Driver supports both TRIAC Forward Phase 2-Wire and ELV Reverse Phase 3-Wire dimming controls.
<b>LDE1</b>	(LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
<b>ELDVO</b>	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)
<b>TSERIES</b>	Lutron T-Series Tunable White Class 2 LED Driver (For use with Lutron Quantum Control Systems)
<b>ELDDW</b>	eldoLED 0/10V dim-to-warm dimming down to 0% (specify with TUNE LED lambing. Driver will be programmed with LightShape dim-to-warm setting)
<b>DALI</b>	DALI flicker-free dimming down to 0%.
<b>DMX</b>	DMX flicker-free dimming down to 0%.
<b>POEM</b>	Molex CoreSync PoE LED Driver. Contact ALW to assist with your project.
<b>POEI</b>	IGOR PoE LED Driver. Contact ALW to assist with your project.
<b>POEN</b>	NuLEDS PoE LED Driver. Contact ALW to assist with your project.
<b>POE</b>	Specify a PoE driver of your choice. Fixture comes with low voltage leads and no LED driver. Contact ALW to assist with your project

\*Most drivers can be programmed to specific dimming levels if desired. Contact ALW for specific dimming level requests.  
ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

DRIVER/LED LAMPING COMPATIBILITY							
	STD	STD/BIOS	TUNE	RGB	RGB(W)	CA TITLE 24 JAB/JA10 <sup>23</sup>	IEEE P1789 & HD TV STUDIO <sup>24</sup>
<b>V00</b>	●	●	●			●	
<b>V01</b>	●	●	●			●	
<b>V05</b>	●	●	●			●	
<b>P01</b>	●	●				●	
<b>LDE1</b>	●	●				●	●
<b>ELDVO</b>	●	●	PER REQUEST			●	●
<b>TSERIES</b>			●			●	●
<b>ELDDW</b>	●		●			●	●
<b>DALI</b>	●	●	●			●	
<b>DMX</b>	●		●		●	PER REQUEST	PER REQUEST
<b>POEM</b>			PER REQUEST			●	●
<b>POEI</b>			PER REQUEST			●	●
<b>POEN</b>			PER REQUEST			●	●

- - Indicates compatibility
- \* Standard lambing (STD) - MIN/LOW/MED/HI
- <sup>23</sup> Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lambing with applicable LED drivers have the ability to conform to California Title 24 JAB and JA10 Appendices
- <sup>24</sup> The following drivers conform to IEEE P1789 Flicker Standard: IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**

**P201-4'**

MID23-74318

**SENSORS**

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	PRODUCT CODE	DESCRIPTION	Location
	<b>N</b>	None. Choose when sensors are not desired.	-
<b>COOPER WAVELINX</b>	<b>WLNx/INT</b>	Wavelinx Wireless integral occ/daylight sensor (WaveLinX part: OEM-WAA)	Integral
	<b>WLNx</b>	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Remote
<b>ENLIGHTED™</b>	<b>ENLGHt/INT</b>	Enlighted integral connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5E-CL)	Integral
	<b>ENLGHt</b>	Enlighted® remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote
<b>LUTRON VIVE</b>	<b>VRF</b>	Lutron® Vive integral RF wireless fixture control (Lutron Part: DFCSJ-OEM-RF)	Integral
	<b>VDO</b>	Lutron® Vive integral RF wireless fixture control + daylight/occ sensor (Lutron Part: DFCSJ-OEM-OCC)	Integral
	<b>FCJS</b>	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote
	<b>FCJS/S</b>	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	Molex CoreSync PoE Integral Fixture-Mounted Sensor R - occ/daylight/temperature/humidity (Molex Part: 182091-1000)	Integral
	<b>MLX</b>	Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from	Remote
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	Fixture is built with nLight Wired integral components specified by agency. Contact ALW to review project details.	Integral
	<b>NLT</b>	Fixture is built to connect to nLight Wired remote components specified by agency. Contact ALW to review project details.	Remote
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	Fixture is built with nLight Air (Wireless) components specified by agency. Contact ALW to review project details.	Integral
	<b>NLTAIR</b>	Fixture is built to connect to nLight Air (Wireless) remote components specified by agency. Contact ALW to review project details.	Remote
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	Acuity 0-10VDC Integral occ/daylight sensor (Acuity Part: MSD 7 ADC WH) Automated Dimming Functionality Only. Manual Dimming not available. Customer to set sensor functionality in the field. Lowest dim level depends on driver.	Integral
	<b>OS/INT/HV</b>	Legrand Wattstopper <b>High Voltage</b> Integral occ/daylight on/off sensor (Part: FS-355) On/Off or Manual Dimming Functionality Only (based on occupancy and daylight). Connect fixture 0/10V wires to wall dimmer in the field. No Automated Dimming available.	Integral
	<b>OS/PH/HV</b>	Hubbell WSP <b>High Voltage</b> 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDS-UNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Remote

\*All connected lighting sensor systems must be programmed in the field by an electrical commissioner familiar with the system. Refer to the 'Sensor Compatibility' and 'Driver/Sensor Compatibility' charts to specify compatible sensors, LED lamping, and LED driver systems.





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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
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FT. ADVISE COLOR

**Type:**  
**P201-4'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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SHALL MATCH TURF BAFFLE FINISH.



**SENSORS CONT'D**

SENSOR COMPATIBILITY								
PRODUCT CODE		SENSOR TYPE	MAX MT HT	CA TITLE 24	STD*	TUNE	RGB	RGB(W)
<b>COOPER WAVELINX</b>	<b>WLNx/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>WLNx</b>		15 ft	●	●			
<b>ENLIGHTED™</b>	<b>ENLGHt/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●	CUSTOM REQUEST		
	<b>ENLGHt</b>	OCCUPANCY/PHOTOCELL	40 ft	●	●	CUSTOM REQUEST		
<b>LUTRON VIVE</b>	<b>VRF</b>	WIRELESS CONTROL	12 ft	●	●			
	<b>VDO</b>	OCCUPANCY/PHOTOCELL	12 ft	●	●			
	<b>FCJS</b>	WIRELESS CONTROL	12 ft	●	●			
	<b>FCJS/S/</b>	OCCUPANCY/PHOTOCELL	12 ft	●	●			
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	OCCUPANCY/PHOTOCELL TEMPERATURE/HUMIDITY	16 ft	●	●			
	<b>MLX</b>		16 ft	●	●	●	CUSTOM REQUEST	CUSTOM REQUEST
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>NLT</b>		15 ft	●	●			
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>NLTAIR</b>		15 ft (average)	●	●			
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>OS/INT/HV</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●	■	■	■
	<b>OS/PH/HV</b>	OCCUPANCY/PHOTOCELL	45 ft	●	●	■	■	■

● - Indicates compatibility    ■ - On/off sensor functionality only  
\*Standard Lamping (STD) - M/L/LOW/MED/HI



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**SENSORS (CONT'D)**

DRIVER/SENSOR COMPATIBILITY									
	WLNX/INT	WLNX	ENLGHT/ INT	ENLGHT	VRF	VDO	FCJS	FCJS/S /	MLX/INT
V00	●	●					●	●	
V01	●	●					●	●	
V05	●	●					●	●	
P01									
LDE1					●	●	●	●	
ELDV0									
TSERIES									
ELDDW									
DALI			●	●	●	●			
DMX									
POEM									●

- - Indicates compatibility
- ▲ - Fixture can have automated dimming via sensor OR on/off functionality and manual dimming
- - On/off sensor functionality only

DRIVER/SENSOR COMPATIBILITY CONT'D									
	MLX	NLT/INT	NLT	NLTAIR/INT	NLTAIR	OS/PH/INT	OS/INT/HV	OS/PH/HV	NO SENSOR
V00						●	■	▲	●
V01						●	■	▲	●
V05						●	■	▲	●
P01							■	■	●
LDE1		●	●	●	●	●	■	▲	●
ELDV0							■	■	●
TSERIES							■	■	●
ELDDW							■	■	●
DALI							■	■	●
DMX							■	■	●
POEM	●								●
POEI	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POEN	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE	Sensor types will depend on the PoE system configuration. Contact ALW for details.								



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**PHOTOMETRICS**

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC) <sup>25</sup> (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
CR/ASY <sup>26</sup>		2 - 2.5 ft RECOMMENDED DISTANCE FROM WALL		1.14 1.30	1328	1300
CR/BAT		6 ft	18.6	1.22 1.7	801	1200
		8 ft	10.4			
		10 ft	6.7			
		12 ft	5.0			
		14 ft	3.4			
		16 ft	2.6			
CR/AG		6 ft	39.6	.8 1.12	1424.7	1300
		8 ft	22.3			
		10 ft	14.2			
		12 ft	9.9			
		14 ft	7.3			
		16 ft	5.6			
CR/S		6 ft	25.8	1.16 1.2	927	1250
		8 ft	14.5			
		10 ft	9.3			
		12 ft	6.4			
		14 ft	4.7			
		16 ft	3.6			
BAT		0.5 ft	38	1.28 3.14	1235	1525
		1 ft	34.5			
		2 ft	27.8			
		3 ft	22.2			
		4 ft	17.6			
		5 ft	13.5			

\*Photometric calculations based on MAX 4000K 80 CRI fixture combination. Actual results may vary in the field.  
 For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#).  
<sup>25</sup>Spacing criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface.  
 Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).  
<sup>26</sup>Recommended distance from wall calculated at 10ft mounting height  
<sup>27</sup>BAT mounting height for BAT refers to distance from ceiling since BAT optic is only offered in indirect output.

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**ADDITIONAL OPTIONS & SPECIFICATIONS****LED PERFORMANCE**

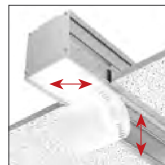
> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

**HOUSING**

100% recyclable, extruded architectural grade 6063 aluminum with a 0.09" minimum wall thickness.

**CONTROLROLL LENS OPTICS**

The optically engineered ControlRoll lens provides smooth, uniform, and seamless illumination for linear lengths of 250' while dynamically controlling output and reducing glare. The ControlRoll lens rolls out and snaps into the housing channel for easy installation.

**INDIRECT BATWING OPTIC**

A 120° rigid batwing optic can be specified for indirect lighting to achieve wide distributions of light across ceilings and to eliminate hotspots.

**SAFETY & REGULATORY**

Fixtures specified with 90CRI, 2700K, 3000K, 3500K, and 4000K lighting with applicable LED drivers have the ability to conform to **California Title 24 JAS and JASO** Appendices. EidoLED drivers can conform to IEEE P1789 Flicker Standard: IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers.

Contact [ALW customer support](#) today and we can help you with your project requirements..

ETL Listed (U.S. & Canada). Suitable for dry or damp locations.  
*For integral driver*, Conforms to UL std. 1598 luminaires,  
*For remote driver*, Conforms to UL std. 2018 luminaires.  
Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2

**WARRANTY**

Limited 5-year warranty. Details: [alwusa.com/warranty](http://alwusa.com/warranty)

**OPERATING TEMPERATURE**

Luminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from -4°F to 122°F (-20°C to 50°C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

**POWER CABLES**

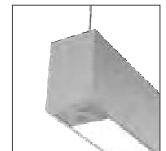
Power cables come standard in a transparent sheathing to match steel aircraft suspension cables. Please contact customer support if custom cables are required for your application. Power cables cannot be swapped in the field as it will void the ETL Safety Listing and Product Warranty.

**WEIGHT**

Approximately 3.9lbs. per linear foot. Weight may vary depending on additional options selected.

**CONTROLS, SENSORS, & LED DRIVER**

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, nLight, Cooper Wavelinx, EidoLED, Molex PoE, NuLEDs PoE, Igor PoE, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact [ALW customer support](#) today so we can review your requirements.

**WOOD VENEER**

Most ALW fixture configurations are available with [real wood veneer](#) as a custom request. Contact [ALW customer support](#) so we can help you with your custom wood veneer request.

Rev 033123

**SP2.5SA – SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM  
19 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S4-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-4'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



**ADDITIONAL OPTIONS & SPECIFICATIONS CONT'D**

**WOOD VENEER**

Most ALW fixture configurations are available with real wood veneer as a custom request. Contact ALW customer support so we can help you with your custom wood veneer request.

**ACOUSTICS**

Material: 0.5" (12mm) PET polyester fibers. Acoustic sound absorbers are 100% recyclable at end of life use.  
NRC Rating: Our acoustics as a 2D absorber have a Noise Reduction Coefficient of 85%. Full test reports of common layouts for 3D absorbers including NRC and Sabin values will be available shortly.  
Fire Rating: Conforms to ASTM E84 Class A. Also conforms to EN13501-1 Class B.

**CARE**

PET acoustics: Remove dust with compressed air, a vacuum or lint roller.  
Aluminum & polymer components: Remove dust and debris with clean, dry or damp lint-free cloth.



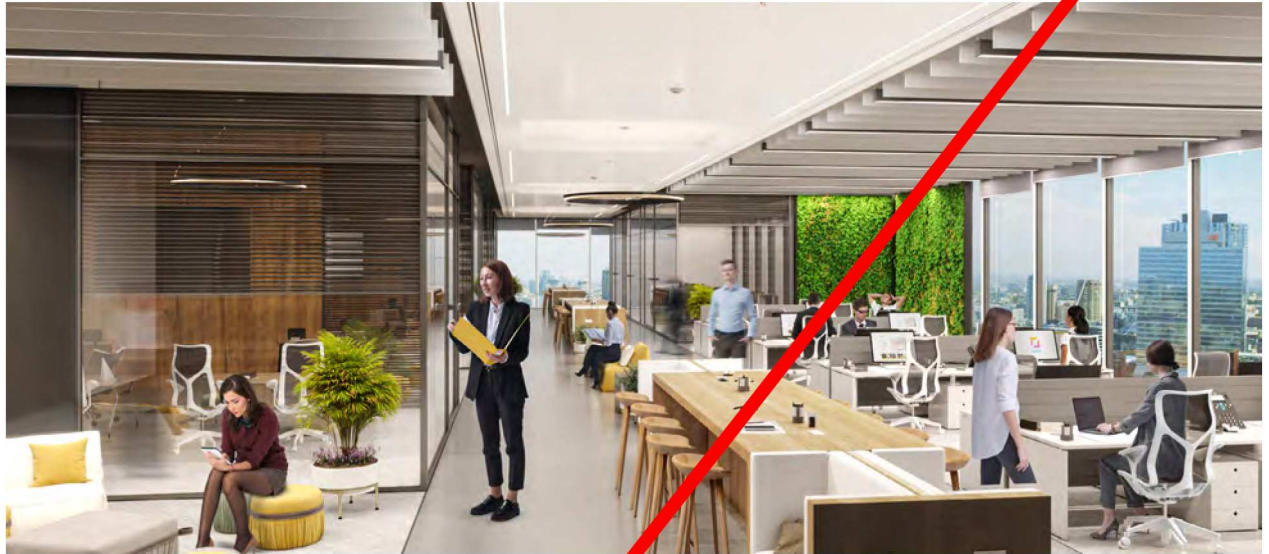
**Job Name:**  
 DUTCHESS STADIUM  
 Distributor: LS FIELDTECH, LLC.  
 (ROCHESTER)

**Catalog Number:**  
 SP2.5SA-CAP/A-S5-HI/80/3500-0/10V/  
 1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
 Notes: MOD = 8" tall acoustic panel & 1000 LM/  
 FT. ADVISE COLOR

**Type:**  
**P201-5'**  
 MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
 TURF LIGHTING MATCHING BAFFLE SYSTEM  
 AS SPECIFIED. P200 & P201 FIXTURES  
 SHALL MATCH TURF BAFFLE FINISH.**

submit - The felt will not  
 cent baffles as scheduled  
 cuments. TURF baffles  
 option.



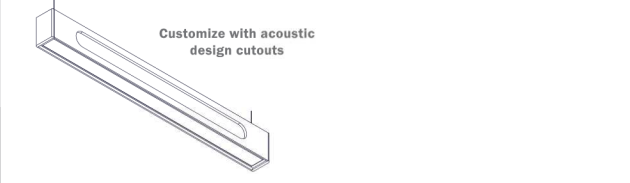
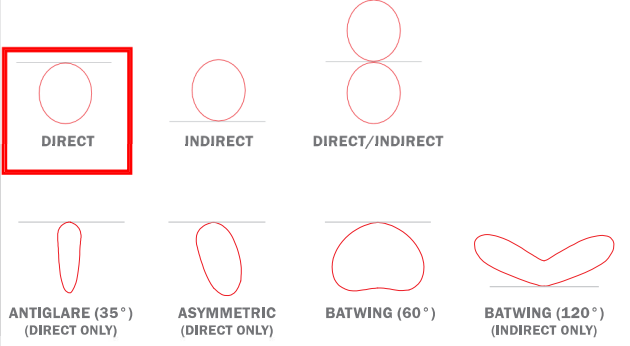
**SPECIFICATIONS**

<b>PROFILE</b>	2.5" Aperture, 3.93" total width
<b>SIZES</b>	2ft - 8ft sections
<b>LED OUTPUT</b>	350lm/ft - 1,525lm/ft
<b>CCT/CRI</b>	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W
<b>DIMMING/ DRIVER</b>	Integral and Remote Driver • 0-10V, DALI, DMX, eldoLED, Lutron®, PoE (Moxel, Igor, NuLEDs). Dimming to 0% for select models.
<b>POWER</b>	3.1W - 10.7W per ft.
<b>INPUT</b>	120VAC, 277VAC, or 347VAC
<b>OPTICS</b>	Control Optics - Continuous lens up to 250ft. Direct/indirect. Lambertian, Asymmetric, Batwing and Antiglare/Grazer optics available.
<b>FINISHES</b>	10 standard acoustic colors. 18 standard finishes at no extra charge. Custom finishes available.
<b>MATERIAL</b>	6063-T6 Extruded Aluminum. 0.5" PET polyester felt.
<b>ENVIRONMENT</b>	Dry or damp locations

**WELL/UGR** See pages 8-9 for recommended options that contribute  
 to meeting the WELL Building Standard™. UGR values  
 available under 'Glare Control' on page 8.

\*Safety and Performance information available on last two pages. Output  
 and other specifications available on pages 10-11.

**DISTRIBUTIONS & PROFILES**



Not to scale. Dimensions are nominal. Consult factory for CAD drawing



Rev 033123

**SP2.5SA - SPECIFICATIONS  
 SUSPENDED**

**ALWUSA.COM  
 1 of 20**





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S5-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/FT. ADVISE COLOR

**Type:**  
**P201-5'**

MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE TURF LIGHTING MATCHING BAFFLE SYSTEM AS SPECIFIED. P200 & P201 FIXTURES SHALL MATCH TURF BAFFLE FINISH.**



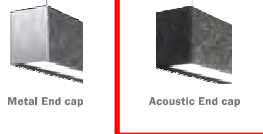
**PRODUCT SPECIFICATION SHEET**

1	2	4a	4b	4c	5	6	7a	7b	7c	8	9	10	11	12	13	14
1.5a	1.5b	1.5c														

**EXAMPLE: SP2.5SA - CAP/M - S5 - MED/90/3500 - V00 - CR/S - LOW/90/3500 - V00 - CR/S - ACW - DCSTM**

**GW - GW - UNV - EMB/1 - FCJS/1 - SB**

<b>1. BASE MODEL</b> <b>SP2.5SA</b> 2.5" aperture, 3.93" total width Suspended Acoustic	<b>2. END CAP*</b> (CHOOSE 1) <b>CAP/M</b> Metal End Cap <b>CAP/A</b> Acoustic End Cap <small>*Add an aesthetic touch with a brushed or powder coated end cap. Metal end caps are not available for indirect only lamping option.</small>	<b>3. NOMINAL LENGTH*</b> (ENTER LENGTH IN FEET) <b>5'</b> <small>Individual/Straight Run section from 2-8ft (enter length in product code above, ex. S5) *Lengths are nominal. To ensure lengths match the exact lengths of other fixtures and/or sound baffles on the project it's recommended to include all products on a single purchase order, provide RCP (Reflective Ceiling Plan), and any additional details for ALW to review.</small>	<b>4. LED LAMPING - DIRECT*</b> (CHOOSE 1 FOR EACH) <b>A. OUTPUT*</b> <b>B. CRI*</b> <b>C. CCT*</b> <b>MIN</b> (350 lm/ft) <b>NO CRI/CCT*</b> <b>LOW</b> (475 lm/ft) <b>80</b> <b>2700K*</b> <b>MED</b> (750 lm/ft) <b>90</b> <b>3000K</b> <b>HI</b> (1030 lm/ft) <b>BIOS*</b> (STATIC BIOS) <b>3500K</b> <b>MAX</b> (1250 lm/ft) <b>BIOS*</b> (DYNAMIC BIOS) <b>4000K</b> <b>RGB</b> (140 lm/ft) <b>BIOS*</b> (DYNAMIC BIOS) <b>TUNE</b> (2700K-6500K, 90 CRI, 475/515 lm/ft) <b>RGBW</b> (3500K, White, 80 CRI, 140/220 lm/ft) <b>CTSM</b> _____ <small>*Enter lumens in product code above, Ex. 0100=100lm/ft</small>
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<b>5. DRIVER - DIRECT*</b> (CHOOSE 1) QS <b>N</b> (None) QS <b>V00</b> (dim to off) QS <b>V01</b> (0-10V, dim to 1%) QS <b>V05</b> (0-10V, dim to 5%) LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%) P01 (ELV/TRIAC phase dim to 1%) T SERIES (Lutron tuneable white) ELDVO (eldoLED 0-10V dim to 0%) ELDDW (eldoLED dim to warm) DALI (DALI, dim to 0%) DMX (DMX, dim to 0%) POEM (POE Molex) POEI (POE IGOR) POEN (POE Nuleds) POE (POE Ready)	<b>6. LENS - DIRECT</b> <b>N</b> None. <b>CR/S</b> ControlRoll lens with diffused, lambertian distribution <b>CR/ASY</b> ControlRoll lens with asymmetric/wall wash distribution (peak intensity 60°) <b>CR/BAT</b> ControlRoll lens with batwing/floor distribution (peak intensity 60°) <b>CR/AG</b> ControlRoll lens with antiglare/grazer optics (35° distribution) <small>*Select when direct lamping is not desired. The lens will be substituted with an aluminum lid with same finish as fixture. *Not available for TUNE, RGB, RGBW, BIOS, or BIOSD lamping.</small>	<b>7. LED LAMPING - INDIRECT*</b> (CHOOSE 1 FOR EA.) <b>N</b> None. Select when indirect lamping is not desired. Lens substituted with aluminum lid. Must select direct lamping. <b>A. OUTPUT</b> <b>B. CRI*</b> <b>C. CCT*</b> <b>MIN</b> (370 lm/ft) <b>NO CRI/CCT*</b> <b>LOW</b> (500 lm/ft) <b>80</b> <b>2700K*</b> <b>MED</b> (775 lm/ft) <b>90</b> <b>3000K</b> <b>HI</b> (1050 lm/ft) <b>BIOS*</b> (STATIC BIOS) <b>3500K</b> <b>MAX</b> (1300 lm/ft) <b>BIOS*</b> (DYNAMIC BIOS) <b>4000K</b> <b>RGB</b> (150 lm/ft) <b>BIOS*</b> (DYNAMIC BIOS) <b>TUNE</b> (2700K-6500K, 90 CRI, 490/530 lm/ft) <b>RGBW</b> (3500K, White, 80 CRI, 150/325 lm/ft) <b>CTSM</b> _____ <small>*Enter lumens in product code above, Ex. 0100=100lm/ft</small>	<b>8. DRIVER - INDIRECT*</b> (CHOOSE 1) QS <b>N</b> (None) QS <b>V00</b> (dim to off) QS <b>V01</b> (0-10V, dim to 1%) QS <b>V05</b> (0-10V, dim to 5%) LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%) P01 (ELV/TRIAC phase dim to 1%) T SERIES (Lutron tuneable white) ELDVO (eldoLED 0-10V dim to 0%) ELDDW (eldoLED dim to warm) DALI (DALI, dim to 0%) DMX (DMX, dim to 0%) POEM (POE Molex) POEI (POE IGOR) POEN (POE Nuleds) POE (POE Ready)
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<b>9. LENS - INDIRECT</b> (CHOOSE 1) <b>N</b> None. <b>CR/S</b> ControlRoll lens with diffused, lambertian distribution <b>CR/BAT</b> ControlRoll lens with batwing/floor distribution (peak intensity 60°) <b>BAT</b> Rigid batwing optic (peak intensity 120°) <small>*Lens will be substituted with an aluminum lid with same finish as fixture. *Not available for TUNE, RGB, RGBW, BIOS, or BIOSD</small>	<b>10. ACOUSTIC FINISH*</b> (CHOOSE 1) <b>ACW</b> Crystal White <b>AMW</b> Marble White <b>AHG</b> Heather Gray <b>ACG</b> Charcoal Gray <b>AJB</b> Jet Black <b>AJW</b> Ivory White <b>AAG</b> Aloe Green <b>ATO</b> Titan Orange <b>ASR</b> Scarlet Red <b>AMB</b> Midnight Blue <small>*See page 7 for larger swatches and additional information</small>	<b>11. ACOUSTIC DESIGN</b> (CHOOSE 1) <b>N</b> None, Choose for a solid acoustic insert. <b>DCSTM</b> Custom Design (See template on page 5) <b>N= Solid Acoustic</b> <b>DCSTM= Custom Design Cutout</b>	<b>12. FIXTURE FINISH*</b> (CHOOSE 1) <b>STANDARD FINISHES</b> <b>AL</b> Anodized Aluminum <b>SW</b> Satin White <b>SB</b> Satin Black <small>See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze)</small> <b>SPECIAL ORDER FINISHES*</b> <b>RAL</b> Specify RAL Classic Color (Ex: RAL 3003) - <b>CAT</b> Specify Catalog Colors <b>CCM</b> Custom Color Match <small>*Manually type in the finish code for special order finishes. *Unless specified otherwise, Anodized Aluminum finish is provided by default for Solid Acoustic Designs. If an Acoustic Design Cutout (DCSTM) is desired, specify any other finish.</small>
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**ADVISE**

CONTINUES ON NEXT PAGE

**SP2.5SA - SPECIFICATIONS SUSPENDED**

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2 of 20





**Job Name:**  
 DUTCHESS STADIUM  
 Distributor: LS FIELDTECH, LLC.  
 (ROCHESTER)

**Catalog Number:**  
 SP2.5SA-CAP/A-S5-HI/80/3500-0/10V/  
 1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
 Notes: MOD = 8" tall acoustic panel & 1000 LM/  
 FT. ADVISE COLOR

**Type:**  
**P201-5'**  
 MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
 TURF LIGHTING MATCHING BAFFLE SYSTEM  
 AS SPECIFIED. P200 & P201 FIXTURES  
 SHALL MATCH TURF BAFFLE FINISH.



**PRODUCT SPECIFICATION SHEET CONT'D**

13. FINISH - END CAP (CHOOSE 1)	14. VOLTAGE (CHOOSE 1)	15a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)
<b>N<sup>13</sup></b> None.	<b>UNV</b> Universal Voltage (120VAC-277VAC) <b>347</b> 347 Volt (Driver options may be limited. Not available with EMB)	<b>EMB/_</b> <sup>14</sup> Emergency Battery (indicate QTY – each battery powers 4ft. section @ 1492lm. Not available in 347 V)  <b>EMC/_</b> <sup>14</sup> Emergency Circuit ( indicate QTY of 4ft sections to be illuminated by emergency circuit)

**STANDARD FINISHES**  
**LB**  Light Brushed Aluminum  
**SW**  Satin White  
**SB**  Satin Black  
 — See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze)

**SPECIAL ORDER FINISHES\***  
**RAL**\_\_\_\_ Specify RAL Classic Color (Ex: RAL 3003) -  
**CAT**\_\_\_\_ Specify Catalog Colors  
**CCM**\_\_\_\_ Custom Color Match

\*Manually type in the finish code for special order finishes.  
<sup>13</sup>Select when specifying acoustic end cap.

15b. SENSOR OPTIONS* (OPTIONAL, CHOOSE 1)	15c. ADDITIONAL OPTIONS (OPTIONAL)
<b>N</b> (None) <b>WLN<sub>X</sub>/INT/_</b> (Cooper Wavelinx, integral) <b>WLN<sub>X</sub>/_</b> (Cooper Wavelinx, remote) <b>ENL<sub>GHT</sub>/_</b> (Enlighted, remote) <b>ENL<sub>GHT</sub>/INT/_</b> (Enlighted, integral) <b>VRF/_</b> (Lutron Vive, integral) <b>VDO/_</b> (Lutron Vive, integral+ occ/daylight sensor) <b>FC<sub>JS</sub>/_</b> (Lutron, remote) <b>FC<sub>JS</sub>/S/_</b> (Lutron, remote + occ/daylight sensor) <b>ML<sub>X</sub>/INT/_</b> (Molex POE, integral)	<b>ML<sub>X</sub></b> (Molex POE, remote) <b>NLT/INT/_</b> (nLight wired, integral occ/daylight sensor) <b>NLT</b> (nLight wired remote connection) <b>NLTAIR/INT/_</b> (nLight AIR, integral) <b>NLTAIR</b> (nLight AIR, remote connection) <b>OS/PH/INT/_</b> (Acuity 0-10V, integral occ/daylight sensor) <b>OS/INT/HV/_</b> (Legrand Workstopper High Voltage integral occ/daylight sensor) <b>OS/PH/HV/_</b> (Hubbell WASP remote occ/daylight sensor)

\*Quickship availability on occupancy and photocell/daylight sensors may vary, Contact ALW for more information.  
 \*Default quantity is 1 sensor per 8ft. type alternate quantity into product code above if desired. See sensor descriptions available on page 15.  
 \*Not all sensors are compatible with all drivers. See "Driver", "Sensor" and lamping charts for driver details and sensor compatibility.



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-5'**

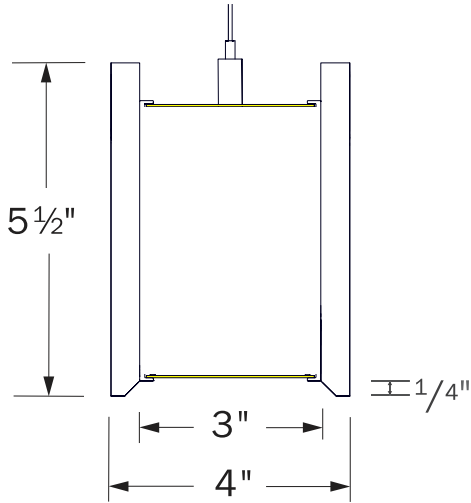
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

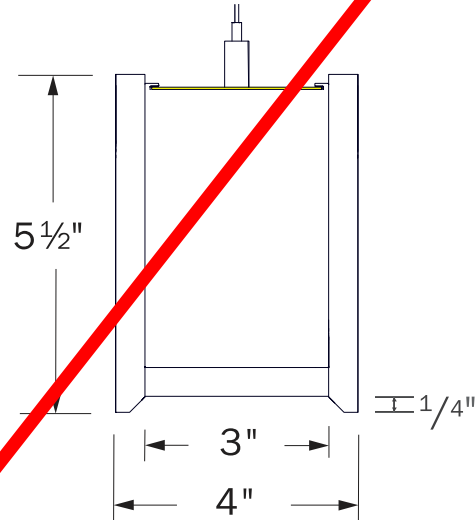


**MECHANICAL DIAGRAMS**

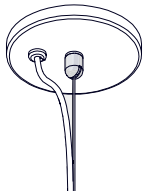
**DIRECT OR DIRECT/INDIRECT**



**INDIRECT ONLY**

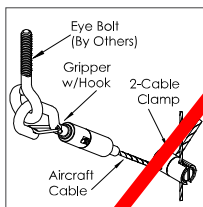


**SUSPENSION MOUNTING OPTIONS**



**CEILING HARDWARE**

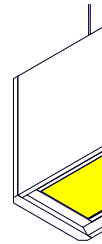
- 4.5" canopy per power feed location. Canopy finish is always white. Contact ALW for alternate color.
- Bullet mount.
- 8' aircraft cable
- 2" canopy (for use with T-bar mounting) per suspension point



**SEISMIC BRACING (SB)**

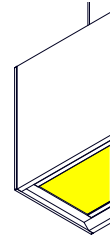
Add-on hardware includes cable gripper with hook, 2-cable clamp and specified length of aircraft cable per suspension point.

**ACOUSTIC END CAP**



Available with Direct, Indirect, or Direct/Indirect Lamping. When Indirect Only is specified an acoustic lid will be installed on the direct lamping side.

**METAL END CAP**



Available with Direct or Direct/Indirect Lamping. Metal end caps are not available for Indirect Only Lamping.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S5-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**

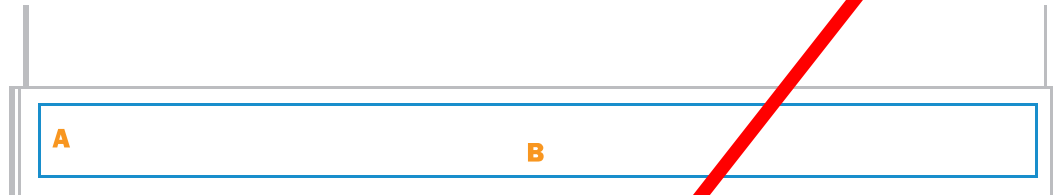
**P201-5'**

MID23-74318

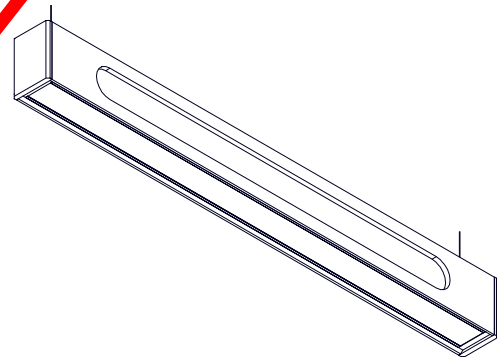
**CUSTOM ACOUSTIC PATTERNS**

Choose from a solid sound absorbing baffle or create your own custom designs by following the instructions and template guidelines below. Gray areas indicate templates for acoustic pattern cutouts.

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



DIMENSION	BASE MODEL	CUT OUT AREA
<b>A</b>	<b>SP2.5SA</b> - 5.5" height	3.5"
	<b>S2</b> - 2' (24") length	22"
	<b>S3</b> - 3' (36") length	34"
	<b>S4</b> - 4' (48") length	46"
<b>B</b>	<b>S5</b> - 5' (60") length	58"
	<b>S6</b> - 6' (72") length	70"
	<b>S7</b> - 7' (84") length	82"
	<b>S8</b> - 8' (96") length	94"

**HOW TO SUBMIT YOUR CUSTOM ACOUSTIC PATTERN?****1. DOWNLOAD THE ACOUSTIC CUSTOM PATTERN .ZIP FILE ON THE PRODUCT PAGE**

Open the appropriate .ai (Adobe Illustrator) or CAD .dxf file.

**2. INPUT YOUR DESIGN WITHIN THE TEMPLATE AREA.**

Template area will be marked with a dashed perimeter.

**3. SAVE YOUR FILE INCLUDE THE PROJECT NAME AND OTHER SUPPORTING INFO AT THE END OF THE FILE NAME.**

For example, "SP2.5SA Custom Acoustic Design Template - Project ALW".

**4. SUBMIT FILES BELOW TO ALW FOR REVIEW.**

1. Acoustic Design Template File
2. Product Code and Quantities



**Job Name:**  
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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
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**Type:**  
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MID23-74318

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SHALL MATCH TURF BAFFLE FINISH.**



**STANDARD FINISHES**

Standard finishes are available at no additional charge.

**ALUMINUM**



Anodized Aluminum

\* Only for Fixture finish



Light Brushed Aluminum

\* Only for End Cap finish

**BASIC POWDER COAT**



Gloss White



Satin White



Antimicrobial Satin White



Textured Matte White



Textured Matte Black

**METALLIC POWDER COAT**



Silver Gray



Charcoal Gray



Copper



Brass

**SATIN ANODIZED EFFECT POWDER COAT**



Clear Silver



Oil-Rubbed Bronze



Dark Bronze



Satin Black

**GLOSS POWDER COAT (80-95% GLOSS)**



Orange RAL 2003



Red RAL 3020



Magenta RAL 4010



Blue RAL 5015

Contact ALW Quotes for sample paint finish swatches.

**SPECIAL ORDER FINISHES\***



**RAL CLASSIC COLORS (80-95% GLOSS): RAL\_ \_ \_ \_**

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003). See [www.alwusa.com/finishes](http://www.alwusa.com/finishes)



**CUSTOM COLOR MATCH: CCM\_ \_ \_ \_**

Custom powder coat color matching is available for a premium setup fee. Consult [ALW](http://www.alwusa.com) for additional information.



**CATALOG COLORS: CAT\_ \_ \_ \_**

The complete range of powder coat colors from [Tiger Drylac](#) and [TCL](#) catalogs are available for a minimum setup fee. Consult ALW for a catalog color you would like to specify.

\*An individual setup fee will apply to each unique Special Order Finish per purchase order. (ex: RAL 5008 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)

\*Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying)



**Job Name:**  
DUTCHESS STADIUM  
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**Catalog Number:**  
SP2.5SA-CAP/A-S5-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-5'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



**ACOUSTIC FINISHES**

**ACOUSTIC COLORS & INFORMATION** **ADVISE COLOR**

The Harmonic Collection features 10 acoustic material colors comprised of ~0.5" (12mm) PET polyester fibers, specially designed for premium sound absorption. ALW's PET acoustics as a 2D absorber have a NRC (Noise Reduction Coefficient) of 85%. Each panel is precision-cut to size using our CNC-cutting process, enabling a wealth of design options from beveled edges to custom cutouts. All panels conform to ASTM E84 Class A and EN13501-1 Class B fire ratings.



**COMPANION ACOUSTIC COLORS & RAL FINISHES**

The chart below outlines suggested RAL finishes to complement the acoustic colors above. With exception to ALW Satin Black and Satin White these RAL suggestions are not standard paint finish offerings. See next page for ALW's full paint finish catalog.

ACOUSTIC COLOR	COMPANION RAL FINISHES	ACOUSTIC COLOR	COMPANION RAL FINISHES
Crystal White	ALW Satin Black (SB) ALW Satin White (SW)	Ivory White	ALW Satin Black (SB) ALW Satin White (SW)
Marble White	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Aloe Green	RAL 6025 - Fern Green (slightly darker shade than acoustic) RAL 7013 - Brown Grey ALW Satin Black (SB) ALW Satin White (SW)
Heather Gray	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Titan Orange	RAL 2011 - Deep Orange RAL 5003 - Sapphire Blue RAL 5008 - Grey Blue RAL 8011 - Nut Brow RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Charcoal Gray	RAL 7021 - Black Grey RAL 7024 - Graphite Grey ALW Satin Black (SB) ALW Satin White (SW)	Scarlet Red	RAL 3031 - Orient Red RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Jet Black	ALW Satin Black (SB) ALW Satin White (SW)	Midnight Blue	RAL 5002 - Ultramarine Blue RAL 2011 - Deep Orange RAL 4010 - Magenta RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S5-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:****P201-5'**

MID23-74318

**SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™**

ALW is committed to providing the highest quality luminaires for a multitude of applications, with many versatile lighting solutions that contribute to satisfying the WELL Building Standard. Below is a quick guide to assist you in specifying appropriate product configurations for WELL features. Links to official WELL standards can be found [here](#).

**CIRCADIAN LIGHTING DESIGN  
FEATURE L03**

The Circadian Lighting Design feature requires projects to provide users with appropriate exposure to light for maintaining circadian health and aligning the circadian rhythm with the day-night cycle.

To conform to these requirements, the project must meet one of the following 4 light level options (a, b, c, or d) below. These light levels are measured on the vertical plane at eye level of the occupant. The light levels are achieved at least between the hours of 9 a.m. and 1 p.m. and may be lowered after 8 p.m. at night.

DESIGNING WITH ELECTRIC LIGHT ONLY	DESIGNING WITH BOTH ELECTRIC LIGHT & DAYLIGHT	POINTS
a. At least 150 EML [136 melanopic equivalent daylight D65]	b. The project achieves at least 120 EML [109 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	1
c. At least 240 EML [218 melanopic equivalent daylight D65]	d. The project achieves at least 180 EML [163 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	3

Choose from a BIOS Static or BIOS Dynamic light engine to assist in a healthy, circadian lighting design. CCT, CRI, Luminous Flux Multipliers, and Melanopic Ratios are shown below for easy specification.

CIRCADIAN LIGHTING DESIGN (3PT MAX)	BIOS STATIC (BIOS)			BIOS DYNAMIC (BIOSD)			HOW TO SPECIFY
<b>CCT</b>	3000K	3500K	4000K	3000K	3500K	4000K	1. Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b> 2. Select the appropriate Lumen <b>OUTPUT</b> 3. Select the appropriate <b>CCT</b>
<b>CRI / R9</b>	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	
<b>LUMINOUS FLUX MULTIPLIER</b>	0.95	0.98	1.00	0.95	0.98	1.00	See BIOS LED Lamping and Performance Details at the back of this spec sheet for lumen outputs, COI index values, and other additional information.
<b>MELANOPIC RATIO (R)*</b>	0.70	0.80	0.90	0.74	0.83	0.95	

**GLARE CONTROL  
FEATURE L04**

Glare is defined as excessive brightness of a light-source, excessive brightness-contrasts and excessive quantities of light. Glare has been associated with a host of health issues that range from visual discomfort and eye fatigue to headaches and migraines.

To conform to Glare Control requirements, each luminaire must meet one of the following options (a, b, or d) for regularly occupied spaces.

GLARE CONTROL CRITERIA (3PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. Indirect (100% emission above horizontal)	✓	100%	1. Select <b>N</b> (None) for <b>LED LAMPING - DIRECT</b> 2. Select <b>any of the options</b> for <b>LED LAMPING - INDIRECT</b>
b. Unified Glare Rating (UGR)*	✓	14.67 @ 16ft (MAX Output) 12.63 @ 20ft (MAX Output)	1. Select <b>ANY</b> output for <b>LED LAMPING - DIRECT</b> 2. Select <b>CR/S</b> (ControlRoll Diffused Lens) or <b>CR/AG</b> (ControlRoll Antiglare Lens) for <b>LENS</b>
c. Shielding Angle	No	-	-
d. Max. Luminance (45°-90°) Max. Intensity (45°-90°)	✓	4668 cd/m <sup>2</sup> @ MED Output 312.21 cd @ MED Output	1. Select an output of <b>MIN</b> or <b>MED</b> for <b>LED LAMPING - DIRECT</b> 2. Select <b>CR/AG</b> (ControlRoll Antiglare Lens) for <b>LENS</b>

\*Advertised UGR values are averages and were calculated in AGI32 using the following method: 1) A 5.4m x 3.6m room was created and fixtures were spaced 2m apart center-to-center. Calculations were performed at 16ft. and 20ft.

Rev 033123

**SP2.5SA - SPECIFICATIONS**  
**SUSPENDED**

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**8 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S5-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**

**P201-5'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™ (CONTINUED)

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

### ELECTRIC LIGHT QUALITY - PART 1: COLOR RENDERING QUALITY + PART 2: FLICKER FEATURE L07

Using light sources that have characteristics similar to daylight, including high color rendering and minimal flicker can improve comfort and well-being of users in a space and contribute to creating a healthy environment.

Part 1: Each luminaire must meet one of the following requirements (a or b) for regularly occupied spaces.

Part 2: Each luminaire must meet the IEEE 1789-2015 Standard Recommended Practice to manage flicker.

PART 1 - ENSURE COLOR RENDERING QUALITY (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. CRI > 90	✓	CRI = 93 - 95	• Select <b>90</b> (90CRI) for <b>LED LAMPING</b>
b. CRI > 80 with R9 > 50	✓	CRI = 83, R9 > 90	• Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b>
c. IES Rf ≥ 78, IES Rg ≥ 100, -1% ≤ IES Rcs, h1 ≤ 15%	No	-	-
PART 2 - MANAGE FLICKER (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
Meets IEEE 1789-2015 Standard Recommended Practice	✓	Modulation = 1% Flicker Frequency = 120/1000Hz	• Select <b>V05, V01, LDE1, DALI</b> or <b>DMX</b> for <b>LED DRIVER</b>

### SOUND ABSORPTION - PART 1: MEET THRESHOLDS FOR REVERBERATION TIME + PART 2: IMPLEMENT SOUND REDUCING CEILINGS FEATURE S04

Sound absorbing spaces help alleviate undesirable noise, reduce stress, and increase comfort, productivity, and morale.

Part 1: All spaces except dwelling units meet the maximum Reverberation Time (60) thresholds in the table below.

Part 2: All spaces except dwelling units have ceiling treatment that meets the minimum Noise Reduction Coefficient NRC/  $\alpha_w$  values described below.

PART 1 - MEET THRESHOLDS FOR REVERBERATION TIME (1PT MAX)			
ROOM TYPE	SIZE	RT(60) (SECONDS)	HOW TO SPECIFY
Conference Rooms	N/A	CRI = 93 - 95	
Classrooms	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 0.6	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.5 to 0.8	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.6 to 1.0	
Lecture Halls	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 0.7	• Acoustic products in ALW's Harmonic Collection can contribute to meeting this WELL feature. Ensure to hire an acoustician to help specify products and layouts to meet the requirements of this WELL feature.
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.6 to 0.9	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.7 to 1.3	
Music Rehearsal Spaces	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 1.1	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	1.0 to 1.4	
Fitness Facilities	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	0.7 to 0.8	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.8 to 1.1	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	1.0 to 1.8	
PART 2 - IMPLEMENT SOUND REDUCING CEILINGS (1PT MAX)			
SPACE TYPE	NRC/ $\alpha_w$		HOW TO SPECIFY
Open Workspaces Enclosed Offices Dining Spaces	0.7 for at least 75% of available ceiling area		• Acoustic products in ALW's Harmonic Collection can contribute to meeting this WELL feature. Ensure to hire an acoustician to help specify products and layouts to meet the requirements of this WELL feature.
Conference Rooms Classrooms	0.7 for at least 80% of available ceiling area		

Rev 033123

**SP2.5SA - SPECIFICATIONS  
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9 of 20





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DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S5-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-5**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**PERFORMANCE DETAILS**

OUTPUT	OPTIC TYPE	DELIVERED LUMENS/FT		EFFICACY (LM/W)		WATTS/FT <sup>15</sup>	CRI OPTIONS	CCT OPTIONS
		DIRECT	INDIRECT	DIRECT	INDIRECT			
MIN <sup>16</sup>	CR/S	350	370	113	119	3.1	80+ 90+	2700K (90CRI Only) 3000K 3500K 4000K 5000K
	CR/ASY	370	N/A	119	N/A			
	CR/BAT	350	350	113	113			
	CR/AG	370	N/A	119	N/A			
	BAT	N/A	440	N/A	142			
LOW <sup>16</sup>	CR/S	475	500	113	119	4.2		
	CR/ASY	500	N/A	119	N/A			
	CR/BAT	470	490	112	117			
	CR/AG	500	N/A	119	N/A			
	BAT	N/A	580	N/A	138			
MED <sup>16</sup>	CR/S	750	775	115	119	6.5		
	CR/ASY	775	N/A	119	N/A			
	CR/BAT	735	750	113	115			
	CR/AG	775	N/A	119	N/A			
	BAT	N/A	920	N/A	142			
HI <sup>16</sup>	CR/S	1030	1050	117	119	8.8		
	CR/ASY	1050	N/A	119	N/A			
	CR/BAT	1000	1030	114	117			
	CR/AG	1050	N/A	119	N/A			
	BAT	N/A	1250	N/A	142			
MAX <sup>16</sup>	CR/S	1250	1300	117	121	10.7		
	CR/ASY	1300	N/A	121	N/A			
	CR/BAT	1200	1250	112	117			
	CR/AG	1300	N/A	121	N/A			
	BAT	N/A	1525	N/A	143			
TUNE	CR/S	WW: 475, CW: 515	WW: 490, CW: 530	WW: 113, CW: 123	WW: 117, CW: 126	4.2/channel	90+	2700K - 6500K
	CR/ASY	WW: 490, CW: 530	N/A	WW: 117, CW: 126	N/A			
	CR/BAT	WW: 475, CW: 500	WW: 480, CW: 520	WW: 110, CW: 119	WW: 114, CW: 124			
	CR/AG	WW: 490, CW: 550	N/A	WW: 117, CW: 131	N/A			
	BAT	N/A	N/A	N/A	N/A			
RGB <sup>17</sup>	CR/S	140	150	28	30	5	N/A	N/A
	CR/ASY	140	N/A	28	N/A			
	CR/BAT	140	150	28	34			
	CR/AG	140	N/A	28	N/A			
	BAT	N/A	N/A	N/A	N/A			
RGB+W <sup>18</sup>	CR/S	RGB: 140, W: 220	RGB: 150, W: 325	RGB: 28, W: 44	RGB: 30, W: 65	5	80+ (White Chip)	3500K (White Chip)
	CR/ASY	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			
	CR/BAT	RGB: 140, W: 220	RGB: 150, W: 230	RGB: 28, W: 44	RGB: 30, W: 46			
	CR/AG	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			
	BAT	N/A	N/A	N/A	N/A			

<sup>15</sup>Lumens/Watt and Watts/ft have been calculated assuming a driver efficiency of 85%. Depending on field conditions, actual measured values may fluctuate by 5-8%.  
<sup>16</sup>Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.  
<sup>17</sup>Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue).  
<sup>18</sup>Performance calculations are derived from the following LM-79 tests: 1) RGB LEDs illuminated, 2) RGB+W LEDs illuminated, 3) White LED only illuminated.



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:****P201-5'**

MID23-74318



**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

**TM-30-18 DETAILS (90 CRI LAMPING)**

CCT	CRI (Ra)	CRI (R9)	TM-30 Rf	TM-30 Rg	Duv
<b>2700K</b>	94	57	92	100	-0.0012
<b>3000K</b>	93	55	91	100	-0.0012
<b>3500K</b>	93	55	90	98	-0.0002
<b>4000K</b>	92	58	89	97	-0.0003



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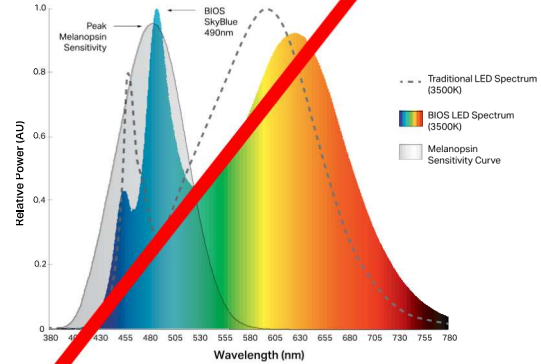


**BIOS OVERVIEW**



BIOS SkyBlue® technology is designed to provide the specific circadian stimulus required to improve overall sleep by featuring a distinct peak in the 'skyblue' spectral power at 490nm. Unlike traditional white LEDs, BIOS SkyBlue® makes it possible to achieve high EML (Equivalent Melanopic Lux) and Melanopic/Photopic ratios without harsh CCTs or high, glare-inducing light levels.

BIOS light engines are available in **Static** or **Dynamic** options for use with a variety of applications. In Static light engines, the SkyBlue 490nm signal always remains on while the fixture is powered. Dynamic options include a dynamic board and Bio-Dimmer module to allow the user to dim-out the SkyBlue 490nm signal during night time hours.



	BIOS STATIC (BIOS)	BIOS DYNAMIC + BIO-DIMMING™ (BIOSD)
<b>DESCRIPTION</b>	490nm SkyBlue light signal always remains on while the fixture is powered.	Dynamic light engine with Bio-Dimming add the ability to fine-tune and dim-out the 490nm SkyBlue signal during night time hours or as desired.
<b>TYPICAL APPLICATIONS</b>	Environments typically occupied only during daylight hours (6am-6pm) such as offices and schools.	Environments occupied for a 24-hour period such as hospitals, security facilities, behavioral health facilities, factories, etc.
<b>CONTROLS &amp; DIMMING*</b>	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS melanopic ratio remains constant as you dim down the light intensity.	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS SkyBlue® LED can be dimmed-out using a standard control/dimmer.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.

**BIOS LED LAMPING DETAILS (STATIC OR DYNAMIC)**

OUTPUT	DELIVERED LUMENS (LM/FT) DIRECT	DELIVERED LUMENS (LM/FT) INDIRECT	EFFICACY (LM/W) DIRECT	EFFICACY (LM/W) INDIRECT	WATTS (W/FT)	CRI
	CR/S CR/ASY CR/BAT CR/AG	CR/S CR/BAT BAT	CR/S CR/ASY CR/BAT CR/AG	CR/S CR/BAT BAT		
<b>MIN<sup>17</sup></b>	350	370	113	119	3.1	82+
	370	350	119	113		
	350	490	113	142		
	370	-	119	-		
<b>LOW<sup>17</sup></b>	475	500	113	119	4.2	
	500	490	119	117		
	470	580	112	138		
	500	-	119	-		
<b>MED<sup>17</sup></b>	775	775	115	119	6.5	
	775	750	119	115		
	735	920	113	142		
	775	-	119	-		
<b>HIGH</b>	1030	1050	117	119	8.8	
	1050	1030	119	117		
	1000	1250	114	142		
	1050	-	119	-		
<b>MAX<sup>17</sup></b>	1250	1300	117	121	10.7	
	1300	1250	121	117		
	1200	1525	112	143		
	1300	-	121	-		

**BIOS LED PERFORMANCE DETAILS**

CCT	CRI (Ra) <i>Static BIOS Dynamic BIOS</i>	CRI (R9) <i>Static BIOS Dynamic BIOS</i>	DAYTIME M/P RATIO <sup>20</sup> <i>Static BIOS Dynamic BIOS</i>	NIGHTTIME M/P RATIO <sup>21</sup> <i>Static BIOS Dynamic BIOS</i>	COI <sup>22</sup> <i>Static BIOS Dynamic BIOS</i>
<b>3000K</b>	82	94	0.70	0.70	3.0
	83	90	0.73	0.45	3.3
<b>3500K</b>	83	91	0.80	0.80	3.1
	83	90	0.84	0.50	3.1
<b>4000K</b>	83	91	0.90	0.90	3.1
	83	90	0.95	0.55	3.1

<sup>19</sup>Performance calculations are based on LM-79 test of BIOS 4000K, MAX output. MIN, LOW, MED and HIGH calculations are extrapolated values.

<sup>20</sup>Melanopic to photopic (M/P) ratios are used to help calculate equivalent melanopic lux (EML) values which is the metric used for circadian lighting in the WELL™ Building Standard.

<sup>21</sup>Static LED nighttime M/P ratios remain the same as daytime M/P ratios as BIOS SkyBlue® always remains at full output.

<sup>22</sup>BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-5'**  
MID23-74318

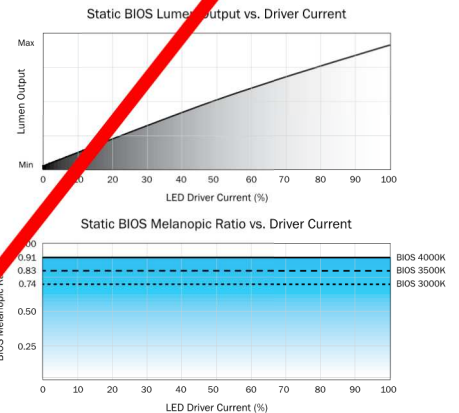
**BAFFLE SYSTEM WILL BE TURF - PROVIDE TURF LIGHTING MATCHING BAFFLE SYSTEM AS SPECIFIED. P200 & P201 FIXTURES SHALL MATCH TURF BAFFLE FINISH.**



**BIOS STATIC DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	LIGHT OUTPUT* (BIOS SKYBLUE® + WHITE LED)		BIOS + White LED Intensity Dimming
100%* (Full On)	100%		
99% - 51%	Linear Dimming 99% - 51%		
50%	Linear Dimming 50%		
49% - 0%	Linear Dimming 49% - 0%		

BIOS SkyBlue® LED and White LED dim with a 1-to-1 ratio.



\*While melanopic ratio remains constant, dimming/reducing light output will have an overall impact on Equivalent Melanopic Lux (EML). That is because  $EML = \text{Vertical Lux} \times \text{melanopic ratio}$ . Therefore, if you reduce light levels by dimming the LEDs, you will reduce your effective EML, even when the melanopic ratio stays constant.

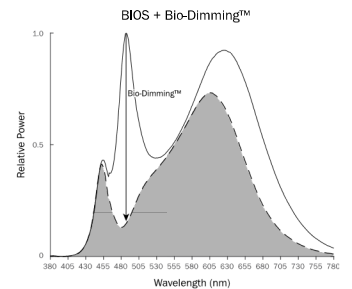
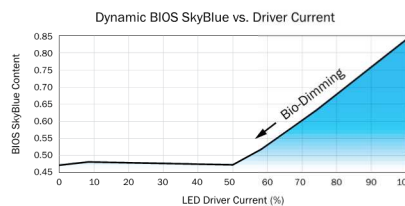
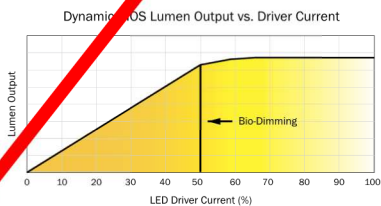
**BIOS DYNAMIC + BIO-DIMMING™ DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT	
100%* (Full On)	100%	100%	100%	Bio-Dimming
99% - 51%	100% - 0%	100%	100% - 90%	
50%	NO BIOS	100%	~90%	White LED Intensity Dimming
49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	

BIOS SkyBlue® maintained for maximum circadian impact.  
Light output remains relatively constant.

BIOS SkyBlue® removed to provide minimal circadian impact.  
White LED output dims linearly.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.



Rev 033123

**SP2.5SA - SPECIFICATIONS**  
**SUSPENDED**

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**13 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S5-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:****P201-5'**

MID23-74318

**DRIVERS**

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

PRODUCT CODE	DESCRIPTION
<b>N</b>	None. Choose when indirect lambing is not desired.
<b>V00</b>	0-10V dimming down to 0% (dim to off).
<b>V01</b>	0-10V dimming down to 1%.
<b>V05</b>	0-10V dimming down to 5% (Down to 10% for TUNE lambing).
<b>P01</b>	Driver supports both TRIAC Forward Phase 2-Wire and ELV Reverse Phase 3-Wire dimming controls.
<b>LDE1</b>	(LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
<b>ELDVO</b>	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)
<b>TSERIES</b>	Lutron T-Series Tunable White Class 2 LED Driver (For use with Lutron Quantum Control Systems)
<b>ELDDW</b>	eldoLED 0/10V dim-to-warm dimming down to 0% (specify with TUNE LED lambing. Driver will be programmed with LightShape dim-to-warm setting)
<b>DALI</b>	DALI flicker-free dimming down to 0%.
<b>DMX</b>	DMX flicker-free dimming down to 0%.
<b>POEM</b>	Molex CoreSync PoE LED Driver. Contact ALW to assist with your project.
<b>POEI</b>	IGOR PoE LED Driver. Contact ALW to assist with your project.
<b>POEN</b>	NuLEDS PoE LED Driver. Contact ALW to assist with your project.
<b>POE</b>	Specify a PoE driver of your choice. Fixture comes with low voltage leads and no LED driver. Contact ALW to assist with your project

\*Most drivers can be programmed to specific dimming levels if desired. Contact ALW for specific dimming level requests.

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

DRIVER/LED LAMPING COMPATIBILITY							
	STD	STD/BIOS	TUNE	RGB	RGB(W)	CA TITLE 24 JAB/JA10 <sup>23</sup>	IEEE P1789 & HD TV STUDIO <sup>24</sup>
<b>V00</b>	●	●	●			●	
<b>V01</b>	●	●	●			●	
<b>V05</b>	●	●	●			●	
<b>P01</b>	●	●				●	
<b>LDE1</b>	●	●				●	●
<b>ELDVO</b>	●	●	PER REQUEST			●	●
<b>TSERIES</b>			●			●	●
<b>ELDDW</b>	●		●			●	●
<b>DALI</b>	●	●	●			●	
<b>DMX</b>	●		●		●	PER REQUEST	PER REQUEST
<b>POEM</b>			PER REQUEST			●	●
<b>POEI</b>			PER REQUEST			●	●
<b>POEN</b>			PER REQUEST			●	●

● - Indicates compatibility

\* Standard lambing (STD) - MIN/LOW/MED/HI

<sup>23</sup> Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lambing with applicable LED drivers have the ability to conform to California Title 24 JAB and JA10 Appendices

<sup>24</sup> The following drivers conform to IEEE P1789 Flicker Standard: IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.

Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM  
14 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S5-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**

**P201-5'**

MID23-74318

**SENSORS**

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

	PRODUCT CODE	DESCRIPTION	Location
	<b>N</b>	None. Choose when sensors are not desired.	-
<b>COOPER WAVELINX</b>	<b>WLNX/INT</b>	Wavelinx Wireless integral occ/daylight sensor (WaveLinX part: OEM-WAA)	Integral
	<b>WLNX</b>	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Remote
<b>ENLIGHTED™</b>	<b>ENLGH/INT</b>	Enlighted integral connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5E-CL)	Integral
	<b>ENLGH</b>	Enlighted® remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote
<b>LUTRON VIVE</b>	<b>VRF</b>	Lutron® Vive integral RF wireless fixture control (Lutron Part: DFCSJ-OEM-RF)	Integral
	<b>VDO</b>	Lutron® Vive integral RF wireless fixture control + daylight/occ sensor (Lutron Part: DFCSJ-OEM-OCC)	Integral
	<b>FCJS</b>	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote
	<b>FCJS/S</b>	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	Molex CoreSync PoE Integral Fixture-Mounted Sensor R - occ/daylight/temperature/humidity (Molex Part: 182091-1000)	Integral
	<b>MLX</b>	Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from	Remote
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	Fixture is built with nLight Wired integral components specified by agency. Contact ALW to review project details.	Integral
	<b>NLT</b>	Fixture is built to connect to nLight Wired remote components specified by agency. Contact ALW to review project details.	Remote
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	Fixture is built with nLight Air (Wireless) components specified by agency. Contact ALW to review project details.	Integral
	<b>NLTAIR</b>	Fixture is built to connect to nLight Air (Wireless) remote components specified by agency. Contact ALW to review project details.	Remote
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	Acuity 0-10VDC Integral occ/daylight sensor (Acuity Part: MSD 7 ADC WH) Automated Dimming Functionality Only. Manual Dimming not available. Customer to set sensor functionality in the field. Lowest dim level depends on driver.	Integral
	<b>OS/INT/HV</b>	Legrand Wattstopper <b>High Voltage</b> Integral occ/daylight on/off sensor (Part: FS-355) On/Off or Manual Dimming Functionality Only (based on occupancy and daylight). Connect fixture 0/10V wires to wall dimmer in the field. No Automated Dimming available.	Integral
	<b>OS/PH/HV</b>	Hubbell WSP <b>High Voltage</b> 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDS-UNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Remote

\*All connected lighting sensor systems must be programmed in the field by an electrical commissioner familiar with the system. Refer to the 'Sensor Compatibility' and 'Driver/Sensor Compatibility' charts to specify compatible sensors, LED lamping, and LED driver systems.

Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM  
15 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S5-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-5'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**SENSORS CONT'D**

SENSOR COMPATIBILITY								
PRODUCT CODE		SENSOR TYPE	MAX MT HT	CA TITLE 24	STD*	TUNE	RGB	RGB(W)
<b>COOPER WAVELINX</b>	<b>WLNx/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>WLNx</b>		15 ft	●	●			
<b>ENLIGHTED™</b>	<b>ENLGHt/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●	CUSTOM REQUEST		
	<b>ENLGHt</b>	OCCUPANCY/PHOTOCELL	40 ft	●	●	CUSTOM REQUEST		
<b>LUTRON VIVE</b>	<b>VRF</b>	WIRELESS CONTROL	12 ft	●	●			
	<b>VDO</b>	OCCUPANCY/PHOTOCELL	12 ft	●	●			
	<b>FCJS</b>	WIRELESS CONTROL	12 ft	●	●			
	<b>FCJS/S/</b>	OCCUPANCY/PHOTOCELL	12 ft	●	●			
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	OCCUPANCY/PHOTOCELL TEMPERATURE/HUMIDITY	16 ft	●	●			
	<b>MLX</b>		16 ft	●	●	●	CUSTOM REQUEST	CUSTOM REQUEST
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>NLT</b>		15 ft	●	●			
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>NLTAIR</b>		15 ft (average)	●	●			
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>OS/INT/HV</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●	■	■	■
	<b>OS/PH/HV</b>	OCCUPANCY/PHOTOCELL	45 ft	●	●	■	■	■

● - Indicates compatibility    ■ - On/off sensor functionality only  
\*Standard Lamping (STD) - M/L/LOW/MED/HI





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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-5'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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**SENSORS (CONT'D)**

DRIVER/SENSOR COMPATIBILITY									
	WLNX/INT	WLNX	ENLGHT/ INT	ENLGHT	VRF	VDO	FCJS	FCJS/S /	MLX/INT
V00	●	●					●	●	
V01	●	●					●	●	
V05	●	●					●	●	
P01									
LDE1					●	●	●	●	
ELDV0									
TSERIES									
ELDDW									
DALI			●	●	●	●			
DMX									
POEM									●

- - Indicates compatibility
- ▲ - Fixture can have automated dimming via sensor OR on/off functionality and manual dimming
- - On/off sensor functionality only

DRIVER/SENSOR COMPATIBILITY CONT'D									
	MLX	NLT/INT	NLT	NLTAIR/INT	NLTAIR	OS/PH/INT	OS/INT/HV	OS/PH/HV	NO SENSOR
V00						●	■	▲	●
V01						●	■	▲	●
V05						●	■	▲	●
P01							■	■	●
LDE1		●	●	●	●	●	■	▲	●
ELDV0							■	■	●
TSERIES							■	■	●
ELDDW							■	■	●
DALI							■	■	●
DMX							■	■	●
POEM	●								●
POEI	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POEN	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE	Sensor types will depend on the PoE system configuration. Contact ALW for details.								



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MID23-74318

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**PHOTOMETRICS**

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC) <sup>25</sup> (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
CR/ASY <sup>26</sup>		2 - 2.5 ft RECOMMENDED DISTANCE FROM WALL		1.14 1.30	1328	1300
CR/BAT		6 ft	18.6	1.22 1.7	801	1200
		8 ft	10.4			
		10 ft	6.7			
		12 ft	5.0			
		14 ft	3.4			
		16 ft	2.6			
CR/AG		6 ft	39.6	.8 1.12	1424.7	1300
		8 ft	22.3			
		10 ft	14.2			
		12 ft	9.9			
		14 ft	7.3			
		16 ft	5.6			
CR/S		6 ft	25.8	1.16 1.2	927	1250
		8 ft	14.5			
		10 ft	9.3			
		12 ft	6.4			
		14 ft	4.7			
		16 ft	3.6			
BAT		0.5 ft	38	1.28 3.14	1235	1525
		1 ft	34.5			
		2 ft	27.8			
		3 ft	22.2			
		4 ft	17.6			
		5 ft	13.5			

\*Photometric calculations based on MAX 4000K 80 CRI fixture combination. Actual results may vary in the field.  
 For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#).  
<sup>25</sup>Spacing criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface.  
 Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).  
<sup>26</sup>Recommended distance from wall calculated at 10ft mounting height  
<sup>27</sup>BAT mounting height for BAT refers to distance from ceiling since BAT optic is only offered in indirect output.

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FT. ADVISE COLOR

**Type:****P201-5'**

MID23-74318



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**ADDITIONAL OPTIONS & SPECIFICATIONS****LED PERFORMANCE**

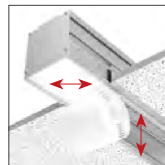
> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

**HOUSING**

100% recyclable, extruded architectural grade 6063 aluminum with a 0.09" minimum wall thickness.

**CONTROLROLL LENS OPTICS**

The optically engineered ControlRoll lens provides smooth, uniform, and seamless illumination for linear lengths of 250' while dynamically controlling output and reducing glare. The ControlRoll lens rolls out and snaps into the housing channel for easy installation.

**INDIRECT BATWING OPTIC**

A 120° rigid batwing optic can be specified for indirect lighting to achieve wide distributions of light across ceilings and to eliminate hotspots.

**SAFETY & REGULATORY**

Fixtures specified with 90CRI, 2700K, 3000K, 3500K, and 4000K lighting with applicable LED drivers have the ability to conform to **California Title 24 JAS and JASO** Appendices. EidoLED drivers can conform to IEEE P1789 Flicker Standard: IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers.

Contact [ALW customer support](#) today and we can help you with your project requirements..

ETL Listed (U.S. & Canada). Suitable for dry or damp locations.  
*For integral driver*, Conforms to UL std. 1598 luminaires,  
*For remote driver*, Conforms to UL std. 2018 luminaires.  
Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2

**WARRANTY**

Limited 5-year warranty. Details: [alwusa.com/warranty](http://alwusa.com/warranty)

**OPERATING TEMPERATURE**

Luminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from -4°F to 122°F (-20°C to 50°C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

**POWER CABLES**

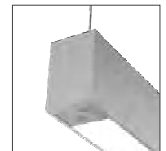
Power cables come standard in a transparent sheathing to match steel aircraft suspension cables. Please contact customer support if custom cables are required for your application. Power cables cannot be swapped in the field as it will void the ETL Safety Listing and Product Warranty.

**WEIGHT**

Approximately 3.9lbs. per linear foot. Weight may vary depending on additional options selected.

**CONTROLS, SENSORS, & LED DRIVER**

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, nLight, Cooper Wavelinx, EidoLED, Molex PoE, NuLEDs PoE, Igor PoE, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact [ALW customer support](#) today so we can review your requirements.

**WOOD VENEER**

Most ALW fixture configurations are available with **real wood veneer** as a custom request. Contact [ALW customer support](#) so we can help you with your custom wood veneer request.

Rev 033123

**SP2.5SA – SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM**  
19 of 20



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
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**Catalog Number:**  
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MID23-74318

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**ADDITIONAL OPTIONS & SPECIFICATIONS CONT'D**

**WOOD VENEER**

Most ALW fixture configurations are available with real wood veneer as a custom request. Contact ALW customer support so we can help you with your custom wood veneer request.

**ACOUSTICS**

Material: 0.5" (12mm) PET polyester fibers. Acoustic sound absorbers are 100% recyclable at end of life use.  
NRC Rating: Our acoustics as a 2D absorber have a Noise Reduction Coefficient of 85%. Full test reports of common layouts for 3D absorbers including NRC and Sabin values will be available shortly.  
Fire Rating: Conforms to ASTM E84 Class A. Also conforms to EN13501-1 Class B.

**CARE**

PET acoustics: Remove dust with compressed air, a vacuum or lint roller.  
Aluminum & polymer components: Remove dust and debris with clean, dry or damp lint-free cloth.



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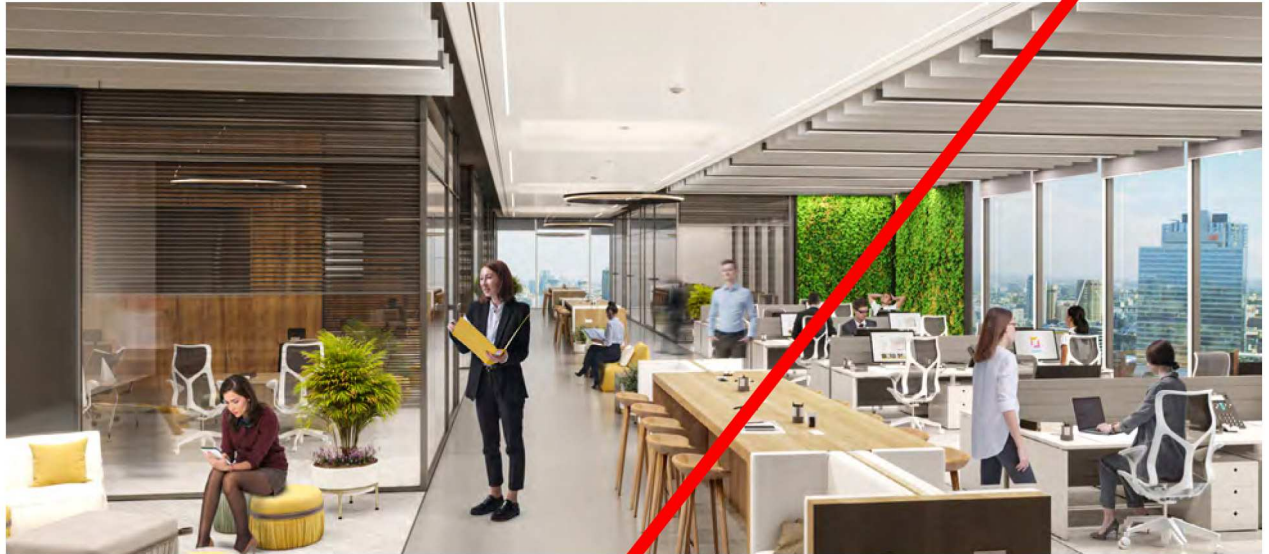
**Catalog Number:**  
SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-8"**  
MID23-74318



**BAFFLE SYSTEM WILL BE TURF - PROVIDE TURF LIGHTING MATCHING BAFFLE SYSTEM AS SPECIFIED. P200 & P201 FIXTURES SHALL MATCH TURF BAFFLE FINISH.**

submit - The felt will not  
ent baffles as scheduled  
uments. TURF baffles  
option.



**SPECIFICATIONS**

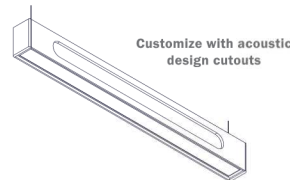
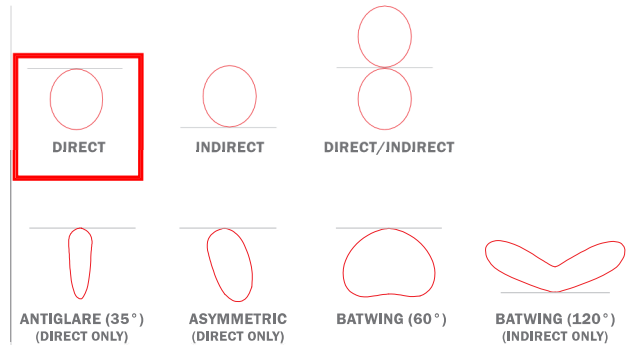
<b>PROFILE</b>	2.5" Aperture, 3.93" total width
<b>SIZES</b>	2ft - 8ft sections
<b>LED OUTPUT</b>	350lm/ft - 1,525lm/ft
<b>CCT/CRI</b>	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W
<b>DIMMING/DRIVER</b>	Integral and Remote Driver • 0-10V, DALI, DMX, eldoLED, Lutron®, PoE (Molex, Igo, NuLEDs). Dimming to 0% for select models.
<b>POWER</b>	3.1W - 10.7W per ft.
<b>INPUT</b>	120VAC, 277VAC, or 347VAC
<b>OPTICS</b>	Control Optics - Continuous lens up to 250ft. Direct/indirect. Lambertian, Asymmetric, Batwing and Anglare/Grazer optics available.
<b>FINISHES</b>	10 standard acoustic colors. 18 standard finishes at no extra charge. Custom finishes available.
<b>MATERIAL</b>	6063-T6 Extruded Aluminum. 0.5" PET polyester felt.
<b>ENVIRONMENT</b>	Dry or damp locations

**WELL/UGR**

See pages 8-9 for recommended options that contribute to meeting the WELL Building Standard™. UGR values available under 'Glare Control' on page 8.

\*Safety and Performance information available on last two pages. Output and other specifications available on pages 10-11.

**DISTRIBUTIONS & PROFILES**



Not to scale. Dimensions are nominal. Consult factory for CAD drawing



Rev 033123

**SP2.5SA - SPECIFICATIONS**  
**SUSPENDED**

**ALWUSA.COM**  
1 of 20



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/FT. ADVISE COLOR

**Type:**  
**P201-8'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE TURF LIGHTING MATCHING BAFFLE SYSTEM AS SPECIFIED. P200 & P201 FIXTURES SHALL MATCH TURF BAFFLE FINISH.**



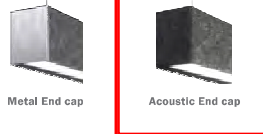
**PRODUCT SPECIFICATION SHEET**

1	2	4a	4b	4c	5	6	7a	7b	7c	8	9	10	11	12	13	14
1.5a	1.5b	1.5c														

**EXAMPLE: SP2.5SA - CAP/M - S5 - MED/90/3500 - V00 - CR/S - LOW/90/3500 - V00 - CR/S - ACW - DCSTM**

**GW - GW - UNV - EMB/1 - FCJS/1 - SB**

<b>1. BASE MODEL</b> SP2.5SA 2.5" aperture, 3.93" total width Suspended Acoustic	<b>2. END CAP* (CHOOSE 1)</b> CAP/M Metal End Cap CAP/A Acoustic End Cap <i>Add an aesthetic touch with a brushed or powder coated end cap. Metal end caps are not available for indirect only lamping option.</i>	<b>3. NOMINAL LENGTH* (ENTER LENGTH IN FEET)</b> 8' Individual/Straight Run section from 2-8ft (enter length in product code above, ex. S5) <i>*Lengths are nominal. To ensure lengths match the exact lengths of other fixtures and/or sound baffles on the project it's recommended to include all products on a single purchase order, provide RCP (Reflective Ceiling Plan), and any additional details for ALW to review.</i>	<b>4. LED LAMPING - DIRECT* (CHOOSE 1 FOR EACH)</b> A. OUTPUT <sup>1</sup> B. CRI <sup>2</sup> C. CCT <sup>2</sup> MIN (350 lm/ft) NO CRI/CCT <sup>3</sup> 2700K <sup>4</sup> LOW (475 lm/ft) 80 3000K MED (750 lm/ft) 90 3500K HI (1030 lm/ft) BIOS <sup>5</sup> (STATIC BIOS) 4000K MAX (1250 lm/ft) BIOS <sup>5</sup> (DYNAMIC BIOS) RGB (140 lm/ft) TUNE (2700K-6500K, 90 CRI, 475/515 lm/ft) RGBW (3500K, White, 80 CRI, 140/220 lm/ft) CSTM_____ <sup>6</sup> (Enter lumens in product code above, Ex. 0100=100lm/ft)
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<b>5. DRIVER - DIRECT* (CHOOSE 1)</b> QS N (None) QS V00 (dim to off) QS V01 (0-10V, dim to 1%) QS V05 (0-10V, dim to 5%) LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%) P01 (ELV/TRIAC phase dim to 1%) T SERIES (Lutron tuneable white) ELDVO (eldoLED 0-10V dim to 0%) ELDDW (eldoLED dim to warm) DALI (DALI, dim to 0%) DMX (DMX, dim to 0%) POEM (POE Molex) POEI (POE IGOR) POEN (POE Nuleds) POE (POE Ready)	<b>6. LENS - DIRECT</b> N None. CR/S ControlRoll lens with diffused, lambertian distribution CR/ASY ControlRoll lens with asymmetric/wall wash distribution (peak intensity 60°) CR/BAT ControlRoll lens with batwing/floor distribution (peak intensity 60°) CR/AG ControlRoll lens with antiglare/grazer optics (35° distribution) <i>*Select when direct lamping is not desired. The lens will be substituted with an aluminum lid with same finish as fixture. *Not available for TUNE, RGB, RGBW, BIOS, or BIOSD lamping.</i>	<b>7. LED LAMPING - INDIRECT* (CHOOSE 1 FOR EA.)</b> A. OUTPUT B. CRI <sup>2</sup> C. CCT <sup>2</sup> MIN (370 lm/ft) NO CRI/CCT <sup>3</sup> 2700K <sup>4</sup> LOW (500 lm/ft) 80 3000K MED (775 lm/ft) 90 3500K HI (1050 lm/ft) BIOS <sup>5</sup> (STATIC BIOS) 4000K MAX (1300 lm/ft) BIOS <sup>5</sup> (DYNAMIC BIOS) RGB (150 lm/ft) TUNE (2700K-6500K, 90 CRI, 490/530 lm/ft) RGBW (3500K, White, 80 CRI, 150/325 lm/ft) CSTM_____ <sup>6</sup> (Enter lumens in product code above, Ex. 0100=100lm/ft)	<b>8. DRIVER - INDIRECT* (CHOOSE 1)</b> QS N (None) QS V00 (dim to off) QS V01 (0-10V, dim to 1%) QS V05 (0-10V, dim to 5%) LDE1 (Lutron ECOSYS1, 0-10V, dim to 1%) P01 (ELV/TRIAC phase dim to 1%) T SERIES (Lutron tuneable white) ELDVO (eldoLED 0-10V dim to 0%) ELDDW (eldoLED dim to warm) DALI (DALI, dim to 0%) DMX (DMX, dim to 0%) POEM (POE Molex) POEI (POE IGOR) POEN (POE Nuleds) POE (POE Ready)
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<b>9. LENS - INDIRECT (CHOOSE 1)</b> N <sup>10</sup> None. CR/S ControlRoll lens with diffused, lambertian distribution CR/BAT ControlRoll lens with batwing/floor distribution (peak intensity 60°) BAT <sup>11</sup> Rigid batwing optic (peak intensity 120°) <i><sup>10</sup>Lens will be substituted with an aluminum lid with same finish as fixture. <sup>11</sup>Not available for TUNE, RGB, RGBW, BIOS, or BIOSD</i>	<b>10. ACOUSTIC FINISH* (CHOOSE 1)</b> ACW Crystal White AMW Marble White AHG Heather Gray ACG Charcoal Gray AJB Jet Black AIW Ivory White AAG Aloe Green ATO Titan Orange ASR Scarlet Red AMB Midnight Blue <i>*See page 7 for larger swatches and additional information</i>	<b>11. ACOUSTIC DESIGN (CHOOSE 1)</b> N None, Choose for a solid acoustic insert. DCSTM Custom Design (See template on page 5) 	<b>12. FIXTURE FINISH* (CHOOSE 1)</b> <b>STANDARD FINISHES</b> AL <sup>12</sup> Anodized Aluminum SW Satin White SB Satin Black See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze) <b>SPECIAL ORDER FINISHES*</b> RAL Specify RAL Classic Color (Ex: RAL 3003) - CAT Specify Catalog Colors CMM Custom Color Match <i>*Manually type in the finish code for special order finishes. <sup>12</sup>Unless specified otherwise, Anodized Aluminum finish is provided by default for Solid Acoustic Designs. If an Acoustic Design Cutout (DCSTM) is desired, specify any other finish.</i>
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CONTINUES ON NEXT PAGE →

**SP2.5SA - SPECIFICATIONS SUSPENDED**

ALWUSA.COM 2 of 20





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-8'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**PRODUCT SPECIFICATION SHEET CONT'D**

13. FINISH - END CAP (CHOOSE 1)	14. VOLTAGE (CHOOSE 1)	15a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)
<input checked="" type="checkbox"/> <b>N<sup>12</sup></b> None.  <b>STANDARD FINISHES</b> <b>LB</b> <input type="checkbox"/> Light Brushed Aluminum <b>SW</b> <input type="checkbox"/> Satin White <b>SB</b> <input type="checkbox"/> Satin Black — See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze)  <b>SPECIAL ORDER FINISHES*</b> <b>RAL</b> ____ Specify RAL Classic Color (Ex: RAL 3003) - <b>CAT</b> ____ Specify Catalog Colors <b>CCM</b> ____ Custom Color Match	<input checked="" type="checkbox"/> <b>UNV</b> Universal Voltage (120VAC-277VAC) <input type="checkbox"/> <b>347</b> 347 Volt (Driver options may be limited. Not available with EMB)	<b>EMB/</b> __ <sup>14</sup> Emergency Battery (indicate QTY – each battery powers 4ft. section @ 1492lm. Not available in 347 V)  <b>EMC/</b> __ <sup>14</sup> Emergency Circuit ( indicate QTY of 4ft sections to be illuminated by emergency circuit)  <small><sup>14</sup>For fixtures under 4ft in length, entire fixture will be illuminated with a proportional lumen output. Consult ALW for more details.</small>

\*Manually type in the finish code for special order finishes.  
<sup>12</sup>Select when specifying acoustic end cap.

15b. SENSOR OPTIONS* (OPTIONAL, CHOOSE 1)	15c. ADDITIONAL OPTIONS (OPTIONAL)
<input checked="" type="checkbox"/> <b>N</b> (None) <b>WLN</b> X/INT/___ (Cooper Wavelinx, integral) <b>WLN</b> X/___ (Cooper Wavelinx, remote) <b>ENL</b> GHT/___ (Enlighted, remote) <b>ENL</b> GHT/INT/___ (Enlighted, integral) <b>VRF</b> /___ (Lutron Vive, integral) <b>VDO</b> /___ (Lutron Vive, integral+ occ/daylight sensor) <b>FCJS</b> /___ (Lutron, remote) <b>FCJS</b> /S/___ (Lutron, remote + occ/daylight sensor) <b>MLX</b> /INT/___ (Molex POE, integral)	<b>MLX</b> (Molex POE, remote) <b>NLT</b> /INT/___ (nLight wired, integral occ/daylight sensor) <b>NLT</b> (nLight wired remote connection) <b>NLTAIR</b> /INT/___ (nLight AIR, integral) <b>NLTAIR</b> (nLight AIR, remote connection) <b>OS/PH</b> /INT/___ (Acuity 0-10V, integral occ/daylight sensor) <b>OS/INT</b> /HV/___ (Legrand Workstopper High Voltage integral occ/daylight sensor) <b>OS/PH</b> /HV/___ (Hubbell WASP remote occ/daylight sensor)

\*Quickship availability on occupancy and photocell/daylight sensors may vary, Contact ALW for more information.  
 \*Default quantity is 1 sensor per 8ft. type alternate quantity into product code above if desired. See sensor descriptions available on page 15.  
 \*Not all sensors are compatible with all drivers. See "Driver", "Sensor" and lamping charts for driver details and sensor compatibility.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

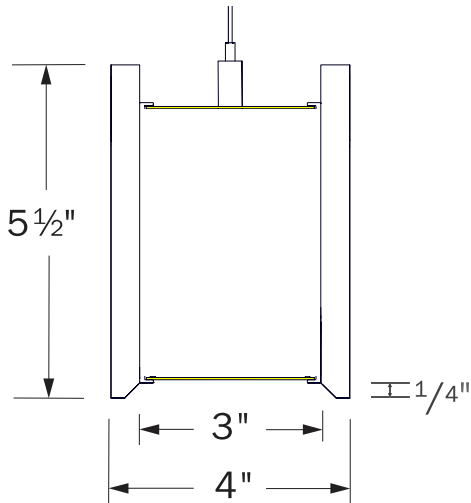
**Type:**  
**P201-8'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

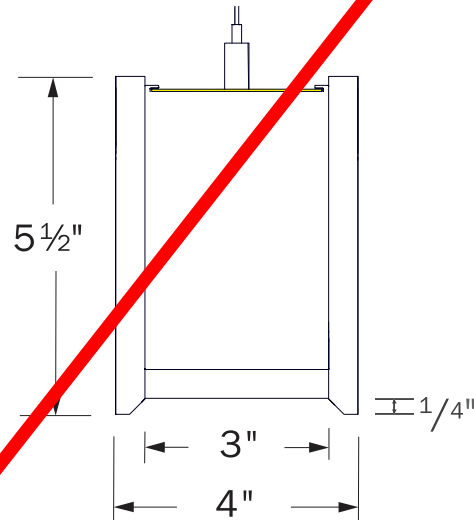


**MECHANICAL DIAGRAMS**

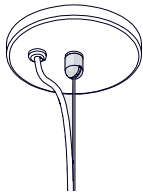
**DIRECT OR DIRECT/INDIRECT**



**INDIRECT ONLY**

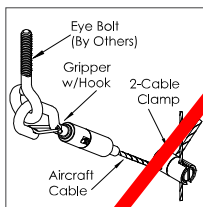


**SUSPENSION MOUNTING OPTIONS**



**CEILING HARDWARE**

- 4.5" canopy per power feed location. Canopy finish is always white. Contact ALW for alternate color.
- Bullet mount.
- 8' aircraft cable
- 2" canopy (for use with T-bar mounting) per suspension point



**SEISMIC BRACING (SB)**

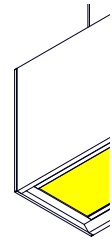
Add-on hardware includes cable gripper with hook, 2-cable clamp and specified length of aircraft cable per suspension point.

**ACOUSTIC END CAP**



Available with Direct, Indirect, or Direct/Indirect Lamping. When Indirect Only is specified an acoustic lid will be installed on the direct lamping side.

**METAL END CAP**



Available with Direct or Direct/Indirect Lamping. Metal end caps are not available for Indirect Only Lamping.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**

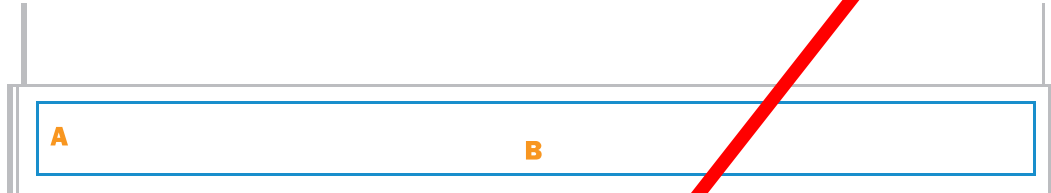
**P201-8"**

MID23-74318

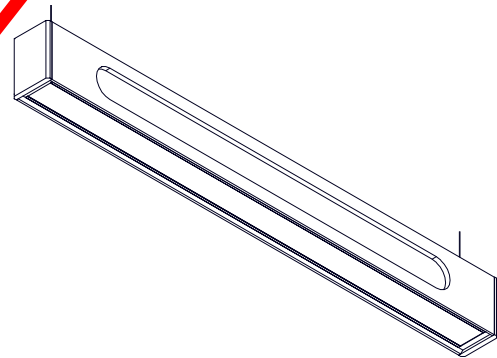
**CUSTOM ACOUSTIC PATTERNS**

Choose from a solid sound absorbing baffle or create your own custom designs by following the instructions and template guidelines below. Gray areas indicate templates for acoustic pattern cutouts.

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



DIMENSION	BASE MODEL	CUT OUT AREA
<b>A</b>	<b>SP2.5SA</b> - 5.5" height	3.5"
	<b>S2</b> - 2' (24") length	22"
	<b>S3</b> - 3' (36") length	34"
	<b>S4</b> - 4' (48") length	46"
<b>B</b>	<b>S5</b> - 5' (60") length	58"
	<b>S6</b> - 6' (72") length	70"
	<b>S7</b> - 7' (84") length	82"
	<b>S8</b> - 8' (96") length	94"

**HOW TO SUBMIT YOUR CUSTOM ACOUSTIC PATTERN?****1. DOWNLOAD THE ACOUSTIC CUSTOM PATTERN .ZIP FILE ON THE PRODUCT PAGE**

Open the appropriate .ai (Adobe Illustrator) or CAD .dxf file.

**2. INPUT YOUR DESIGN WITHIN THE TEMPLATE AREA.**

Template area will be marked with a dashed perimeter.

**3. SAVE YOUR FILE INCLUDE THE PROJECT NAME AND OTHER SUPPORTING INFO AT THE END OF THE FILE NAME.**

For example, "SP2.5SA Custom Acoustic Design Template - Project ALW".

**4. SUBMIT FILES BELOW TO ALW FOR REVIEW.**

1. Acoustic Design Template File
2. Product Code and Quantities



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-8'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



**STANDARD FINISHES**

Standard finishes are available at no additional charge.

**ALUMINUM**



Anodized Aluminum

\* Only for Fixture finish



Light Brushed Aluminum

\* Only for End Cap finish

**BASIC POWDER COAT**



Gloss White



Satin White



Antimicrobial Satin White



Textured Matte White



Textured Matte Black

**METALLIC POWDER COAT**



Silver Gray



Charcoal Gray



Copper



Brass

**SATIN ANODIZED EFFECT POWDER COAT**



Clear Silver



Oil-Rubbed Bronze



Dark Bronze



Satin Black

**GLOSS POWDER COAT (80-95% GLOSS)**



Orange RAL 2003



Red RAL 3020



Magenta RAL 4010



Blue RAL 5015

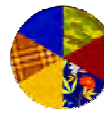
Contact ALW Quotes for sample paint finish swatches.

**SPECIAL ORDER FINISHES\***



**RAL CLASSIC COLORS (80-95% GLOSS): RAL\_ \_ \_ \_**

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003). See [www.alwusa.com/finishes](http://www.alwusa.com/finishes)



**CUSTOM COLOR MATCH: CCM\_ \_ \_ \_**

Custom powder coat color matching is available for a premium setup fee. Consult [ALW](http://www.alwusa.com) for additional information.



**CATALOG COLORS: CAT\_ \_ \_ \_**

The complete range of powder coat colors from [Tiger Drylac](#) and [TCL](#) catalogs are available for a minimum setup fee. Consult ALW for a catalog color you would like to specify.

\*An individual setup fee will apply to each unique Special Order Finish per purchase order. (ex: RAL 5008 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)

\*Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying)



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-8'**  
MID23-74318

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**



**ACOUSTIC FINISHES**

**ACOUSTIC COLORS & INFORMATION** **ADVISE COLOR**

The Harmonic Collection features 10 acoustic material colors comprised of ~0.5" (12mm) PET polyester fibers, specially designed for premium sound absorption. ALW's PET acoustics as a 2D absorber have a NRC (Noise Reduction Coefficient) of 85%. Each panel is precision-cut to size using our CNC-cutting process, enabling a wealth of design options from beveled edges to custom cutouts. All panels conform to ASTM E84 Class A and EN13501-1 Class B fire ratings.



**COMPANION ACOUSTIC COLORS & RAL FINISHES**

The chart below outlines suggested RAL finishes to complement the acoustic colors above. With exception to ALW Satin Black and Satin White these RAL suggestions are not standard paint finish offerings. See next page for ALW's full paint finish catalog.

ACOUSTIC COLOR	COMPANION RAL FINISHES	ACOUSTIC COLOR	COMPANION RAL FINISHES
Crystal White	ALW Satin Black (SB) ALW Satin White (SW)	Ivory White	ALW Satin Black (SB) ALW Satin White (SW)
Marble White	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Aloe Green	RAL 6025 - Fern Green (slightly darker shade than acoustic) RAL 7013 - Brown Grey ALW Satin Black (SB) ALW Satin White (SW)
Heather Gray	RAL 7024 - Graphite Grey RAL 7046 - Telegrey 2 ALW Satin Black (SB) ALW Satin White (SW)	Titan Orange	RAL 2011 - Deep Orange RAL 5003 - Sapphire Blue RAL 5008 - Grey Blue RAL 8011 - Nut Brow RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Charcoal Gray	RAL 7021 - Black Grey RAL 7024 - Graphite Grey ALW Satin Black (SB) ALW Satin White (SW)	Scarlet Red	RAL 3031 - Orient Red RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)
Jet Black	ALW Satin Black (SB) ALW Satin White (SW)	Midnight Blue	RAL 5002 - Ultramarine Blue RAL 2011 - Deep Orange RAL 4010 - Magenta RAL 7047 - Telegrey 4 RAL 9001 - Cream ALW Satin Black (SB) ALW Satin White (SW)



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:****P201-8'**

MID23-74318

**SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™**

ALW is committed to providing the highest quality luminaires for a multitude of applications, with many versatile lighting solutions that contribute to satisfying the WELL Building Standard. Below is a quick guide to assist you in specifying appropriate product configurations for WELL features. Links to official WELL standards can be found [here](#).

**CIRCADIAN LIGHTING DESIGN  
FEATURE L03**

The Circadian Lighting Design feature requires projects to provide users with appropriate exposure to light for maintaining circadian health and aligning the circadian rhythm with the day-night cycle.

To conform to these requirements, the project must meet one of the following 4 light level options (a, b, c, or d) below. These light levels are measured on the vertical plane at eye level of the occupant. The light levels are achieved at least between the hours of 9 a.m. and 1 p.m. and may be lowered after 8 p.m. at night.

DESIGNING WITH ELECTRIC LIGHT ONLY	DESIGNING WITH BOTH ELECTRIC LIGHT & DAYLIGHT	POINTS
a. At least 150 EML [136 melanopic equivalent daylight D65]	b. The project achieves at least 120 EML [109 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	1
c. At least 240 EML [218 melanopic equivalent daylight D65]	d. The project achieves at least 180 EML [163 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	3

Choose from a BIOS Static or BIOS Dynamic light engine to assist in a healthy, circadian lighting design. CCT, CRI, Luminous Flux Multipliers, and Melanopic Ratios are shown below for easy specification.

CIRCADIAN LIGHTING DESIGN (3PT MAX)	BIOS STATIC (BIOS)			BIOS DYNAMIC (BIOSD)			HOW TO SPECIFY
<b>CCT</b>	3000K	3500K	4000K	3000K	3500K	4000K	1. Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b> 2. Select the appropriate Lumen <b>OUTPUT</b> 3. Select the appropriate <b>CCT</b>
<b>CRI / R9</b>	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	
<b>LUMINOUS FLUX MULTIPLIER</b>	0.95	0.98	1.00	0.95	0.98	1.00	See BIOS LED Lamping and Performance Details at the back of this spec sheet for lumen outputs, COI index values, and other additional information.
<b>MELANOPIC RATIO (R)*</b>	0.70	0.80	0.90	0.74	0.83	0.95	

**GLARE CONTROL  
FEATURE L04**

Glare is defined as excessive brightness of a light-source, excessive brightness-contrasts and excessive quantities of light. Glare has been associated with a host of health issues that range from visual discomfort and eye fatigue to headaches and migraines.

To conform to Glare Control requirements, each luminaire must meet one of the following options (a, b, or d) for regularly occupied spaces.

GLARE CONTROL CRITERIA (3PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. Indirect (100% emission above horizontal)	✓	100%	1. Select <b>N</b> (None) for <b>LED LAMPING - DIRECT</b> 2. Select <b>any of the options</b> for <b>LED LAMPING - INDIRECT</b>
b. Unified Glare Rating (UGR)*	✓	14.67 @ 16ft (MAX Output) 12.63 @ 20ft (MAX Output)	1. Select <b>ANY</b> output for <b>LED LAMPING - DIRECT</b> 2. Select <b>CR/S</b> (ControlRoll Diffused Lens) or <b>CR/AG</b> (ControlRoll Antiglare Lens) for <b>LENS</b>
c. Shielding Angle	No	-	-
d. Max. Luminance (45°-90°) Max. Intensity (45°-90°)	✓	4668 cd/m <sup>2</sup> @ MED Output 312.21 cd @ MED Output	1. Select an output of <b>MIN</b> or <b>MED</b> for <b>LED LAMPING - DIRECT</b> 2. Select <b>CR/AG</b> (ControlRoll Antiglare Lens) for <b>LENS</b>

\*Advertised UGR values are averages and were calculated in AGI32 using the following method: 1) A 5.4m x 3.6m room was created and fixtures were spaced 2m apart center-to-center. Calculations were performed at 16ft. and 20ft.

Rev 033123

**SP2.5SA - SPECIFICATIONS**  
**SUSPENDED**

**ALWUSA.COM**  
**8 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**

**P201-8'**

MID23-74318



### SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™ (CONTINUED)

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

#### ELECTRIC LIGHT QUALITY - PART 1: COLOR RENDERING QUALITY + PART 2: FLICKER FEATURE L07

Using light sources that have characteristics similar to daylight, including high color rendering and minimal flicker can improve comfort and well-being of users in a space and contribute to creating a healthy environment.

Part 1: Each luminaire must meet one of the following requirements (a or b) for regularly occupied spaces.

Part 2: Each luminaire must meet the IEEE 1789-2015 Standard Recommended Practice to manage flicker.

PART 1 - ENSURE COLOR RENDERING QUALITY (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. CRI > 90	✓	CRI = 93 - 95	• Select <b>90</b> (90CRI) for <b>LED LAMPING</b>
b. CRI > 80 with R9 > 50	✓	CRI = 83, R9 > 90	• Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b>
c. IES Rf ≥ 78, IES Rg ≥ 100, -1% ≤ IES Rcs, h1 ≤ 15%	No	-	-
PART 2 - MANAGE FLICKER (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
Meets IEEE 1789-2015 Standard Recommended Practice	✓	Modulation = 1% Flicker Frequency = 120/2000Hz	• Select <b>V05, V01, LDE1, DALI</b> or <b>DMX</b> for <b>LED DRIVER</b>

#### SOUND ABSORPTION - PART 1: MEET THRESHOLDS FOR REVERBERATION TIME + PART 2: IMPLEMENT SOUND REDUCING CEILINGS FEATURE S04

Sound absorbing spaces help alleviate undesirable noise, reduce stress, and increase comfort, productivity, and morale.

Part 1: All spaces except dwelling units meet the maximum Reverberation Time (60) thresholds in the table below.

Part 2: All spaces except dwelling units have ceiling treatment that meets the minimum Noise Reduction Coefficient NRC/  $\alpha_w$  values described below.

PART 1 - MEET THRESHOLDS FOR REVERBERATION TIME (1PT MAX)			
ROOM TYPE	SIZE	RT(60) (SECONDS)	HOW TO SPECIFY
Conference Rooms	N/A	CRI = 93 - 95	
Classrooms	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 0.6	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.5 to 0.8	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.6 to 1.0	
Lecture Halls	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 0.7	• Acoustic products in ALW's Harmonic Collection can contribute to meeting this WELL feature. Ensure to hire an acoustician to help specify products and layouts to meet the requirements of this WELL feature.
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.6 to 0.9	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.7 to 1.3	
Music Rehearsal Spaces	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	≤ 1.1	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	1.0 to 1.4	
Fitness Facilities	< 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ]	0.7 to 0.8	
	Between 280 m <sup>3</sup> [10,000 ft <sup>3</sup> ] and 570m <sup>3</sup> [20,000 ft <sup>3</sup> ]	0.8 to 1.1	
	> 570 m <sup>3</sup> [20,000 ft <sup>3</sup> ]	1.0 to 1.8	
PART 2 - IMPLEMENT SOUND REDUCING CEILINGS (1PT MAX)			
SPACE TYPE	NRC/ $\alpha_w$		HOW TO SPECIFY
Open Workspaces Enclosed Offices Dining Spaces	0.7 for at least 75% of available ceiling area		• Acoustic products in ALW's Harmonic Collection can contribute to meeting this WELL feature. Ensure to hire an acoustician to help specify products and layouts to meet the requirements of this WELL feature.
Conference Rooms Classrooms	0.7 for at least 80% of available ceiling area		

Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM**  
9 of 20



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
**Notes:** MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-8'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**PERFORMANCE DETAILS**

OUTPUT	OPTIC TYPE	DELIVERED LUMENS/FT		EFFICACY (LM/W)		WATTS/FT <sup>15</sup>	CRI OPTIONS	CCT OPTIONS
		DIRECT	INDIRECT	DIRECT	INDIRECT			
MIN <sup>16</sup>	CR/S	350	370	113	119	3.1	80+ 90+	2700K (90CRI Only) 3000K 3500K 4000K 5000K
	CR/ASY	370	N/A	119	N/A			
	CR/BAT	350	350	113	113			
	CR/AG	370	N/A	119	N/A			
	BAT	N/A	440	N/A	142			
LOW <sup>16</sup>	CR/S	475	500	113	119	4.2		
	CR/ASY	500	N/A	119	N/A			
	CR/BAT	470	490	112	117			
	CR/AG	500	N/A	119	N/A			
	BAT	N/A	580	N/A	138			
MED <sup>16</sup>	CR/S	750	775	115	119	6.5		
	CR/ASY	775	N/A	119	N/A			
	CR/BAT	735	750	113	115			
	CR/AG	775	N/A	119	N/A			
	BAT	N/A	920	N/A	142			
HI <sup>16</sup>	CR/S	1030	1050	117	119	8.8		
	CR/ASY	1050	N/A	119	N/A			
	CR/BAT	1000	1030	114	117			
	CR/AG	1050	N/A	119	N/A			
	BAT	N/A	1250	N/A	142			
MAX <sup>16</sup>	CR/S	1250	1300	117	121	10.7		
	CR/ASY	1300	N/A	121	N/A			
	CR/BAT	1200	1250	112	117			
	CR/AG	1300	N/A	121	N/A			
	BAT	N/A	1525	N/A	143			
TUNE	CR/S	WW: 475, CW: 515	WW: 490, CW: 530	WW: 113, CW: 123	WW: 117, CW: 126	4.2/channel	90+	2700K - 6500K
	CR/ASY	WW: 490, CW: 530	N/A	WW: 117, CW: 126	N/A			
	CR/BAT	WW: 475, CW: 500	WW: 480, CW: 520	WW: 110, CW: 119	WW: 114, CW: 124			
	CR/AG	WW: 490, CW: 550	N/A	WW: 117, CW: 131	N/A			
	BAT	N/A	N/A	N/A	N/A			
RGB <sup>17</sup>	CR/S	140	150	28	30	5	N/A	N/A
	CR/ASY	140	N/A	28	N/A			
	CR/BAT	140	150	28	34			
	CR/AG	140	N/A	28	N/A			
	BAT	N/A	N/A	N/A	N/A			
RGB+W <sup>18</sup>	CR/S	RGB: 140, W: 220	RGB: 150, W: 325	RGB: 28, W: 44	RGB: 30, W: 65	5	80+ (White Chip)	3500K (White Chip)
	CR/ASY	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			
	CR/BAT	RGB: 140, W: 220	RGB: 150, W: 230	RGB: 28, W: 44	RGB: 30, W: 46			
	CR/AG	RGB: 140, W: 220	N/A	RGB: 28, W: 44	N/A			
	BAT	N/A	N/A	N/A	N/A			

<sup>15</sup>Lumens/Watt and Watts/ft have been calculated assuming a driver efficiency of 85%. Depending on field conditions, actual measured values may fluctuate by 5-8%.  
<sup>16</sup>Performance calculations are based on LM-79 test of MAX output at 80 CRI and 4000K. MIN, LOW, MED and HIGH calculations are extrapolated values.  
<sup>17</sup>Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue).  
<sup>18</sup>Performance calculations are derived from the following LM-79 tests: 1) RGB LEDs illuminated, 2) RGB+W LEDs illuminated, 3) White LED only illuminated.





**Job Name:**  
DUTCHESS STADIUM  
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**Catalog Number:**

SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:****P201-8'**

MID23-74318



**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

**TM-30-18 DETAILS (90 CRI LAMPING)**

CCT	CRI (Ra)	CRI (R9)	TM-30 Rf	TM-30 Rg	Duv
<b>2700K</b>	94	57	92	100	-0.0012
<b>3000K</b>	93	55	91	100	-0.0012
<b>3500K</b>	93	55	90	98	-0.0002
<b>4000K</b>	92	58	89	97	-0.0003



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Notes: MOD = 8" tall acoustic panel & 1000 LM/FT. ADVISE COLOR

**Type:**  
**P201-8'**

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BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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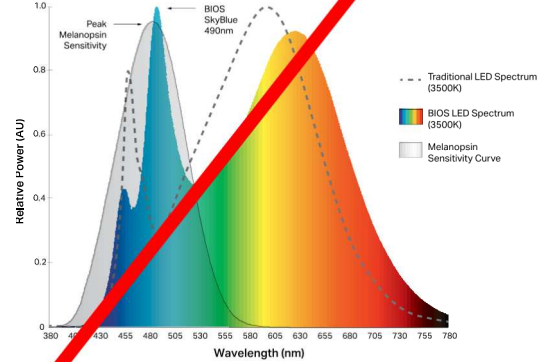


**BIOS OVERVIEW**



BIOS SkyBlue® technology is designed to provide the specific circadian stimulus required to improve overall sleep by featuring a distinct peak in the 'skyblue' spectral power at 490nm. Unlike traditional white LEDs, BIOS SkyBlue® makes it possible to achieve high EML (Equivalent Melanopic Lux) and Melanopic/Photopic ratios without harsh CCTs or high, glare-inducing light levels.

BIOS light engines are available in **Static** or **Dynamic** options for use with a variety of applications. In Static light engines, the SkyBlue 490nm signal always remains on while the fixture is powered. Dynamic options include a dynamic board and Bio-Dimmer module to allow the user to dim-out the SkyBlue 490nm signal during night time hours.



	BIOS STATIC (BIOS)	BIOS DYNAMIC + BIO-DIMMING™ (BIOSD)
<b>DESCRIPTION</b>	490nm SkyBlue light signal always remains on while the fixture is powered.	Dynamic light engine with Bio-Dimming add the ability to fine-tune and dim-out the 490nm SkyBlue signal during night time hours or as desired.
<b>TYPICAL APPLICATIONS</b>	Environments typically occupied only during daylight hours (6am-6pm) such as offices and schools.	Environments occupied for a 24-hour period such as hospitals, security facilities, behavioral health facilities, factories, etc.
<b>CONTROLS &amp; DIMMING*</b>	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS melanopic ratio remains constant as you dim down the light intensity.	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS SkyBlue® LED can be dimmed-out using a standard control/dimmer.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.

**BIOS LED LAMPING DETAILS (STATIC OR DYNAMIC)**

OUTPUT	DELIVERED LUMENS (LM/FT)		EFFICACY (LM/W)		WATTS (W/FT)	CRI
	DIRECT	INDIRECT	DIRECT	INDIRECT		
<b>MIN<sup>17</sup></b>	CR/S 350	370	CR/S 113	CR/S 119	3.1	82+
	CR/ASY 370	350	CR/ASY 119	CR/ASY 113		
	CR/BAT 350	400	CR/BAT 113	CR/BAT 142		
	CR/AG 370	-	CR/AG 119	CR/AG -		
<b>LOW<sup>17</sup></b>	475	500	113	119	4.2	
	500	490	119	117		
	470	580	112	138		
	500	-	119	-		
<b>MED<sup>17</sup></b>	775	775	115	119	6.5	
	775	750	119	115		
	735	920	113	142		
	775	-	119	-		
<b>HI</b>	1030	1050	117	119	8.8	
	1050	1030	119	117		
	1000	1250	114	142		
	1050	-	119	-		
<b>MAX<sup>17</sup></b>	1250	1300	117	121	10.7	
	1300	1250	121	117		
	1200	1525	112	143		
	1300	-	121	-		

**BIOS LED PERFORMANCE DETAILS**

CCT	CRI (Ra) <small>Static BIOS Dynamic BIOS</small>	CRI (R9) <small>Static BIOS Dynamic BIOS</small>	DAYTIME M/P RATIO <sup>20</sup> <small>Static BIOS Dynamic BIOS</small>	NIGHTTIME M/P RATIO <sup>21</sup> <small>Static BIOS Dynamic BIOS</small>	COI <sup>22</sup> <small>Static BIOS Dynamic BIOS</small>
<b>3000K</b>	82	94	0.70	0.70	3.0
	83	90	0.73	0.45	3.3
<b>3500K</b>	83	91	0.80	0.80	3.1
	83	90	0.84	0.50	3.1
<b>4000K</b>	83	91	0.90	0.90	3.1
	83	90	0.95	0.55	3.1

<sup>19</sup>Performance calculations are based on LM-79 test of BIOS 4000K, MAX output. MIN, LOW, MED and HIGH calculations are extrapolated values.

<sup>20</sup>Melanopic to photopic (M/P) ratios are used to help calculate equivalent melanopic lux (EML) values which is the metric used for circadian lighting in the WELL™ Building Standard.

<sup>21</sup>Static LED nighttime M/P ratios remain the same as daytime M/P ratios as BIOS SkyBlue® always remains at full output.

<sup>22</sup>BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.



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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-8'**  
MID23-74318

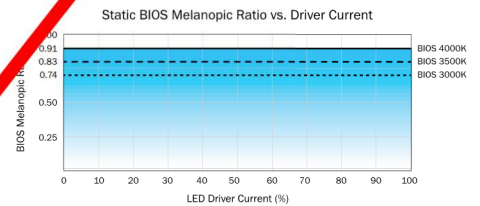
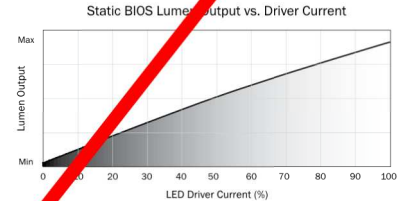
**BAFFLE SYSTEM WILL BE TURF - PROVIDE TURF LIGHTING MATCHING BAFFLE SYSTEM AS SPECIFIED. P200 & P201 FIXTURES SHALL MATCH TURF BAFFLE FINISH.**



**BIOS STATIC DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	LIGHT OUTPUT* (BIOS SKYBLUE® + WHITE LED)		BIOS + White LED Intensity Dimming
100%* (Full On)	100%		
99% - 51%	Linear Dimming 99% - 51%		
50%	Linear Dimming 50%		
49% - 0%	Linear Dimming 49% - 0%		

BIOS SkyBlue® LED and White LED dim with a 1-to-1 ratio.



\*While melanopic ratio remains constant, dimming/reducing light output will have an overall impact on Equivalent Melanopic Lux (EML). That is because  $EML = \text{Vertical Lux} \times \text{melanopic ratio}$ . Therefore, if you reduce light levels by dimming the LEDs, you will reduce your effective EML, even when the melanopic ratio stays constant.

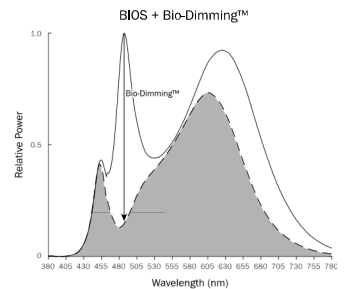
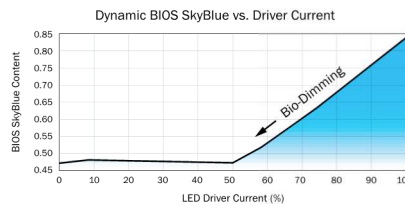
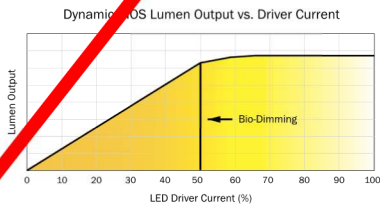
**BIOS DYNAMIC + BIO-DIMMING™ DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT	
100%* (Full On)	100%	100%	100%	Bio-Dimming
99% - 51%	100% - 0%	100%	100% - 90%	
50%	NO BIOS	100%	~90%	White LED Intensity Dimming
49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	

BIOS SkyBlue® maintained for maximum circadian impact.  
Light output remains relatively constant.

BIOS SkyBlue® removed to provide minimal circadian impact.  
White LED output dims linearly.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.



Rev 033123

**SP2.5SA - SPECIFICATIONS**  
**SUSPENDED**

**ALWUSA.COM**  
**13 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**

**P201-8'**

MID23-74318

**DRIVERS**

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

PRODUCT CODE	DESCRIPTION
<b>N</b>	None. Choose when indirect lambing is not desired.
<b>V00</b>	0-10V dimming down to 0% (dim to off).
<b>V01</b>	0-10V dimming down to 1%.
<b>V05</b>	0-10V dimming down to 5% (Down to 10% for TUNE lambing).
<b>P01</b>	Driver supports both TRIAC Forward Phase 2-Wire and ELV Reverse Phase 3-Wire dimming controls.
<b>LDE1</b>	(LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
<b>ELDVO</b>	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)
<b>TSERIES</b>	Lutron T-Series Tunable White Class 2 LED Driver (For use with Lutron Quantum Control Systems)
<b>ELDDW</b>	eldoLED 0/10V dim-to-warm dimming down to 0% (specify with TUNE LED lambing. Driver will be programmed with LightShape dim-to-warm setting)
<b>DALI</b>	DALI flicker-free dimming down to 0%.
<b>DMX</b>	DMX flicker-free dimming down to 0%.
<b>POEM</b>	Molex CoreSync PoE LED Driver. Contact ALW to assist with your project.
<b>POEI</b>	IGOR PoE LED Driver. Contact ALW to assist with your project.
<b>POEN</b>	NuLEDS PoE LED Driver. Contact ALW to assist with your project.
<b>POE</b>	Specify a PoE driver of your choice. Fixture comes with 120v voltage leads and no LED driver. Contact ALW to assist with your project

\*Most drivers can be programmed to specific dimming levels if desired. Contact ALW for specific dimming level requests.

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

DRIVER/LED LAMPING COMPATIBILITY							
	STD	STD/BIOS	TUNE	RGB	RGB(W)	CA TITLE 24 JAB/JA10 <sup>23</sup>	IEEE P1789 & HD TV STUDIO <sup>24</sup>
<b>V00</b>	●	●	●			●	
<b>V01</b>	●	●	●			●	
<b>V05</b>	●	●	●			●	
<b>P01</b>	●	●				●	
<b>LDE1</b>	●	●				●	●
<b>ELDVO</b>	●	●	PER REQUEST			●	●
<b>TSERIES</b>			●			●	●
<b>ELDDW</b>	●		●			●	●
<b>DALI</b>	●	●	●			●	
<b>DMX</b>	●		●		●	PER REQUEST	PER REQUEST
<b>POEM</b>			PER REQUEST			●	●
<b>POEI</b>			PER REQUEST			●	●
<b>POEN</b>			PER REQUEST			●	●

● - Indicates compatibility

\* Standard lambing (STD) - MIN/LOW/MED/HI

<sup>23</sup> Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lambing with applicable LED drivers have the ability to conform to California Title 24 JAB and JA10 Appendices

<sup>24</sup> The following drivers conform to IEEE P1789 Flicker Standard: IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.

Rev 033123

**SP2.5SA - SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM**  
14 of 20



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**

**P201-8'**

MID23-74318

**SENSORS**

**BAFFLE SYSTEM WILL BE TURF - PROVIDE  
TURF LIGHTING MATCHING BAFFLE SYSTEM  
AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.**

	PRODUCT CODE	DESCRIPTION	Location
	<b>N</b>	None. Choose when sensors are not desired.	-
<b>COOPER WAVELINX</b>	<b>WLNx/INT</b>	Wavelinx Wireless integral occ/daylight sensor (WaveLinX part: OEM-WAA)	Integral
	<b>WLNx</b>	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Remote
<b>ENLIGHTED™</b>	<b>ENLGHt/INT</b>	Enlighted integral connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5E-CL)	Integral
	<b>ENLGHt</b>	Enlighted® remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote
<b>LUTRON VIVE</b>	<b>VRF</b>	Lutron® Vive integral RF wireless fixture control (Lutron Part: DFCSJ-OEM-RF)	Integral
	<b>VDO</b>	Lutron® Vive integral RF wireless fixture control + daylight/occ sensor (Lutron Part: DFCSJ-OEM-OCC)	Integral
	<b>FCJS</b>	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote
	<b>FCJS/S</b>	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	Molex CoreSync PoE Integral Fixture-Mounted Sensor R - occ/daylight/temperature/humidity (Molex Part: 182091-1000)	Integral
	<b>MLX</b>	Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from	Remote
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	Fixture is built with nLight Wired integral components specified by agency. Contact ALW to review project details.	Integral
	<b>NLT</b>	Fixture is built to connect to nLight Wired remote components specified by agency. Contact ALW to review project details.	Remote
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	Fixture is built with nLight Air (Wireless) components specified by agency. Contact ALW to review project details.	Integral
	<b>NLTAIR</b>	Fixture is built to connect to nLight Air (Wireless) remote components specified by agency. Contact ALW to review project details.	Remote
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	Acuity 0-10VDC Integral occ/daylight sensor (Acuity Part: MSD 7 ADC WH) Automated Dimming Functionality Only. Manual Dimming not available. Customer to set sensor functionality in the field. Lowest dim level depends on driver.	Integral
	<b>OS/INT/HV</b>	Legrand Wattstopper <b>High Voltage</b> Integral occ/daylight on/off sensor (Part: FS-355) On/Off or Manual Dimming Functionality Only (based on occupancy and daylight). Connect fixture 0/10V wires to wall dimmer in the field. No Automated Dimming available.	Integral
	<b>OS/PH/HV</b>	Hubbell WSP <b>High Voltage</b> 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDS-UNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Remote

\*All connected lighting sensor systems must be programmed in the field by an electrical commissioner familiar with the system. Refer to the 'Sensor Compatibility' and 'Driver/Sensor Compatibility' charts to specify compatible sensors, LED lamping, and LED driver systems.



**Job Name:**  
 DUTCHESS STADIUM  
 Distributor: LS FIELDTECH, LLC.  
 (ROCHESTER)

**Catalog Number:**  
 SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
 1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
 Notes: MOD = 8" tall acoustic panel & 1000 LM/  
 FT. ADVISE COLOR

**Type:**  
**P201-8'**  
 MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
 TURF LIGHTING MATCHING BAFFLE SYSTEM  
 AS SPECIFIED. P200 & P201 FIXTURES  
 SHALL MATCH TURF BAFFLE FINISH.



**SENSORS CONT'D**

SENSOR COMPATIBILITY								
PRODUCT CODE		SENSOR TYPE	MAX MT HT	CA TITLE 24	STD*	TUNE	RGB	RGB(W)
<b>COOPER WAVELINX</b>	<b>WLNx/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>WLNx</b>		15 ft	●	●			
<b>ENLIGHTED™</b>	<b>ENLGHt/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●	CUSTOM REQUEST		
	<b>ENLGHt</b>	OCCUPANCY/PHOTOCELL	40 ft	●	●	CUSTOM REQUEST		
<b>LUTRON VIVE</b>	<b>VRF</b>	WIRELESS CONTROL	12 ft	●	●			
	<b>VDO</b>	OCCUPANCY/PHOTOCELL	12 ft	●	●			
	<b>FCJS</b>	WIRELESS CONTROL	12 ft	●	●			
	<b>FCJS/S/</b>	OCCUPANCY/PHOTOCELL	12 ft	●	●			
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	OCCUPANCY/PHOTOCELL TEMPERATURE/HUMIDITY	16 ft	●	●			
	<b>MLX</b>		16 ft	●	●	●	CUSTOM REQUEST	CUSTOM REQUEST
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>NLT</b>		15 ft	●	●			
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>NLTAIR</b>		15 ft (average)	●	●			
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	<b>OS/INT/HV</b>	OCCUPANCY/PHOTOCELL	15 ft	●	●	■	■	■
	<b>OS/PH/HV</b>	OCCUPANCY/PHOTOCELL	45 ft	●	●	■	■	■

● - Indicates compatibility    ■ - On/off sensor functionality only  
 \*Standard Lamping (STD) - M/L/LOW/MED/HI



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD  
Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-8'**  
MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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AS SPECIFIED. P200 & P201 FIXTURES  
SHALL MATCH TURF BAFFLE FINISH.



**SENSORS (CONT'D)**

DRIVER/SENSOR COMPATIBILITY									
	WLNX/INT	WLNX	ENLGHT/ INT	ENLGHT	VRF	VDO	FCJS	FCJS/S /	MLX/INT
V00	●	●					●	●	
V01	●	●					●	●	
V05	●	●					●	●	
P01									
LDE1					●	●	●	●	
ELDV0									
TSERIES									
ELDDW									
DALI			●	●	●	●			
DMX									
POEM									●

- - Indicates compatibility
- ▲ - Fixture can have automated dimming via sensor OR on/off functionality and manual dimming
- - On/off sensor functionality only

DRIVER/SENSOR COMPATIBILITY CONT'D									
	MLX	NLT/INT	NLT	NLTAIR/INT	NLTAIR	OS/PH/INT	OS/INT/HV	OS/PH/HV	NO SENSOR
V00						●	■	▲	●
V01						●	■	▲	●
V05						●	■	▲	●
P01							■	■	●
LDE1		●	●	●	●	●	■	▲	●
ELDV0							■	■	●
TSERIES							■	■	●
ELDDW							■	■	●
DALI							■	■	●
DMX							■	■	●
POEM	●								●
POEI	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POEN	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE	Sensor types will depend on the PoE system configuration. Contact ALW for details.								





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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

Notes: MOD = 8" tall acoustic panel & 1000 LM/  
FT. ADVISE COLOR

**Type:**  
**P201-8'**

MID23-74318

BAFFLE SYSTEM WILL BE TURF - PROVIDE  
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**PHOTOMETRICS**

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC) <sup>25</sup> (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
CR/ASY <sup>26</sup>		2 - 2.5 ft RECOMMENDED DISTANCE FROM WALL		1.14 1.30	1328	1300
CR/BAT		6 ft	18.6	1.22 1.7	801	1200
		8 ft	10.4			
		10 ft	6.7			
		12 ft	5.0			
		14 ft	3.4			
		16 ft	2.6			
CR/AG		6 ft	39.6	.8 1.12	1424.7	1300
		8 ft	22.3			
		10 ft	14.2			
		12 ft	9.9			
		14 ft	7.3			
		16 ft	5.6			
CR/S		6 ft	25.8	1.16 1.2	927	1250
		8 ft	14.5			
		10 ft	9.3			
		12 ft	6.4			
		14 ft	4.7			
		16 ft	3.6			
BAT		0.5 ft	38	1.28 3.14	1235	1525
		1 ft	34.5			
		2 ft	27.8			
		3 ft	22.2			
		4 ft	17.6			
		5 ft	13.5			

\*Photometric calculations based on MAX 4000K 80 CRI fixture combination. Actual results may vary in the field.

For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#)

<sup>25</sup>Spacing criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface.

Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).

<sup>26</sup>Recommended distance from wall calculated at 10ft mounting height

<sup>27</sup>BAT mounting height for BAT refers to distance from ceiling since BAT optic is only offered in indirect output.

**Job Name:**

DUTCHESS STADIUM  
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(ROCHESTER)

**Catalog Number:**

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1%-CR/S-N-N-N-TBD-N-AL-N-UNV-MOD

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FT. ADVISE COLOR

**Type:****P201-8'**

MID23-74318



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**ADDITIONAL OPTIONS & SPECIFICATIONS****LED PERFORMANCE**

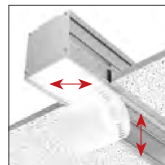
> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

**HOUSING**

100% recyclable, extruded architectural grade 6063 aluminum with a 0.09" minimum wall thickness.

**CONTROLROLL LENS OPTICS**

The optically engineered ControlRoll lens provides smooth, uniform, and seamless illumination for linear lengths of 250' while dynamically controlling output and reducing glare. The ControlRoll lens rolls out and snaps into the housing channel for easy installation.

**INDIRECT BATWING OPTIC**

A 120° rigid batwing optic can be specified for indirect lighting to achieve wide distributions of light across ceilings and to eliminate hotspots.

**SAFETY & REGULATORY**

Fixtures specified with 90CRI, 2700K, 3000K, 3500K, and 4000K lighting with applicable LED drivers have the ability to conform to **California Title 24 JAS and JASO** Appendices. EidoLED drivers can conform to IEEE P1789 Flicker Standard: IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers.

Contact [ALW customer support](#) today and we can help you with your project requirements..

ETL Listed (U.S. & Canada). Suitable for dry or damp locations.  
*For integral driver*, Conforms to UL std. 1598 luminaires,  
*For remote driver*, Conforms to UL std. 2018 luminaires.  
Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2

**WARRANTY**

Limited 5-year warranty. Details: [alwusa.com/warranty](http://alwusa.com/warranty)

**OPERATING TEMPERATURE**

Luminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from -4°F to 122°F (-20°C to 50°C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

**POWER CABLES**

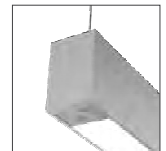
Power cables come standard in a transparent sheathing to match steel aircraft suspension cables. Please contact customer support if custom cables are required for your application. Power cables cannot be swapped in the field as it will void the ETL Safety Listing and Product Warranty.

**WEIGHT**

Approximately 3.9lbs. per linear foot. Weight may vary depending on additional options selected.

**CONTROLS, SENSORS, & LED DRIVER**

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, nLight, Cooper Wavelinx, EidoLED, Molex PoE, NuLEDs PoE, Igor PoE, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact [ALW customer support](#) today so we can review your requirements.

**WOOD VENEER**

Most ALW fixture configurations are available with **real wood veneer** as a custom request. Contact [ALW customer support](#) so we can help you with your custom wood veneer request.

Rev 033123

**SP2.5SA – SPECIFICATIONS  
SUSPENDED**

**ALWUSA.COM  
19 of 20**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
SP2.5SA-CAP/A-S8-HI/80/3500-0/10V/  
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**ADDITIONAL OPTIONS & SPECIFICATIONS CONT'D**

**WOOD VENEER**

Most ALW fixture configurations are available with real wood veneer as a custom request. Contact ALW customer support so we can help you with your custom wood veneer request.

**ACOUSTICS**

Material: 0.5" (12mm) PET polyester fibers. Acoustic sound absorbers are 100% recyclable at end of life use.  
NRC Rating: Our acoustics as a 2D absorber have a Noise Reduction Coefficient of 85%. Full test reports of common layouts for 3D absorbers including NRC and Sabin values will be available shortly.  
Fire Rating: Conforms to ASTM E84 Class A. Also conforms to EN13501-1 Class B.

**CARE**

PET acoustics: Remove dust with compressed air, a vacuum or lint roller.  
Aluminum & polymer components: Remove dust and debris with clean, dry or damp lint-free cloth.



Day-Brite/CFI FluxPanel LED gen 2 recessed is a highly versatile luminaire designed to provide smooth lighting gradient on the lens surface and ease of installation. Available for use in recessed, suspended, and surface mount orientation, FluxPanel gen 2 is ideal for general lighting applications such as open office, schools, healthcare, clean rooms, and retail.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

**Ordering guide – Standard configurations available with all choices, unless otherwise noted.**  
 Base configurations selections indicated by blue.

Example: 2FPZ43L840-4-DS-UNV-DIM-BSL10LST

Width	Family	Lumens	Color	Length	Diffuser	Voltage	Driver	Options <sup>2</sup>
2	FPZ			4	DS			
2 2'	FPZ FluxPanel gen 2	<b>Base configuration<sup>4</sup></b> 42B 4200 nominal delivered lumens	835 80 CRI, 3500K	4 4'	DS Diffuse (smooth)	UNV Universal Voltage, 120-277	DIM <sup>1</sup> 0-10V dimming	F1 3/8" flex, 3 wire 18 gauge 6' F2 3/8" flex, 4 wire 18 gauge 6' F1/D 3/8" twin flex, 3 wire 18 gauge 6' for dimmable luminaires F2/5W 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires F2/6W 3/8" single flex, 6 wire 18 gauge 6' for dimmable and emergency luminaires GLR Fusing, fast blow ER100 <sup>4,5,11,12</sup> UL924 listed sensor bypass relay, factory installed between driver & sensor BSL10LST <sup>5,9</sup> Bodine 10W battery pack BSL6LST <sup>5,9</sup> Bodine 6W battery pack SWZCSR <sup>1,4,7,9,10</sup> Remote Interact Pro scalable sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SWZDTR <sup>1,4,7,9</sup> Remote SpaceWise only sensor, daylighting and occupancy, advanced grouping with dwell time RADIO <sup>1,4,5,7</sup> Interact Pro RF sensor, enables wireless connected lighting control DSC Quick driver disconnect CHIC Chicago Plenum rated BAC <sup>13</sup> Meets the requirements of the Buy American Act of 1933 (BAA)
		<b>Standard configurations</b>	840 80 CRI, 4000K 850 80 CRI, 5000K			120 <sup>3</sup> 120V 277 277V 347 347V	SDIM <sup>6</sup> Step dimming to 40% input power XDIM <sup>3,6</sup> MarkX phase dimming	
		15L <sup>4,9</sup> 1500 nominal delivered lumens 30L 3000 nominal delivered lumens 38L 3800 nominal delivered lumens 43L 4300 nominal delivered lumens 48L 4800 nominal delivered lumens 54L 5400 nominal delivered lumens 60L 6000 nominal delivered lumens 74L 7400 nominal delivered lumens 80L 8000 nominal delivered lumens						
		Other lumen packages may be ordered in increments of 100lm from 1500 to 8000 lumens						

**Footnotes**

- Integral control options dimmable to 1% via wireless wall switch. Non-controls options are 0-10V dimmable to 1% for Standard configurations and 5% for Base configurations.
- All options only available with Standard configurations
- XDIM is 120V only.
- Specify DIM driver option only
- Not available with 347V option
- Available in 30L through 54L packages
- Not available with surface or suspended accessories
- Maximum of 4 luminaires per controller
- Emergency and Control options not clean room certified.
- Must order IRT9015 Interact commissioning remote with each system order.
- Must be installed in conjunction with a UL1008 device.
- Must be ordered with an integral controls option.
- Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- Consult Signify to confirm whether specific accessories are BAA-compliant.

**Accessories<sup>14</sup> (order separately)**

- FMA24 – 2'x4' "F" mounting frame for NEMA "F" mounting
- FSK24 – 2'x4' surface mount field installation kit (factory welded seams)
- FSF24 – 2'x4' surface mount field assembly kit (field assembled)
- FPZCH48-1D-SC-UNV – adjustable cable hanger kit with straight white 18/5 cord for dimming (two-1 powered, 1 non-powered)
- FPZCH48-1D-SC-347 – adjustable cable hanger kit with straight white 18/5 cord for dimming (two-1 powered, 1 non-powered)
- SWZDT<sup>7,8,9</sup> – SpaceWise wireless controller with daylighting and occupancy, advanced grouping with dwell time functionality (compatible with all 0-10V options, see SWZDT spec sheet)
- SBAZ10-CS<sup>7,8,9,10</sup> – Interact Ready System Bridge Accessory, refer to Philips System Bridge Accessory specification sheet for options and ordering details
- IRT9015 – handheld remote for grouping and configuration (at least one remote required for any SWZCS installation)



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
2FPZ42B835-4-DS-UNV-DIM

**Type:**

**R31**

MID23-74318

Notes:

# 2FPZ FluxPanel LED recessed 2x4

## Up to 8000 lumens

### Application

- Base configurations are 1-9/16". Standard configurations are 3". Dimensions stated for overall depth, including driver box.
- Even distribution of light on the lens provides exceptionally low glare gradient minimizing distractions at the ceiling plane.
- General light distribution creates uniform horizontal and vertical illuminance on the work plane and limits scalloping on the walls.
- Excellent consistency of correlated color temperature (CCT) per ANSI C78.377.
- CRI 80 minimum color rendering with balanced spectrum.
- Designed for use with standard Grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-bars. Drywall or plaster application require use with the FMA24 "F" mounting frame accessory (sold and shipped separately).
- Accessory field install kits available for surface (FSF24) and suspended (FPZCH48) mounting.

### Construction/Finish

- Die formed galvanized steel housing.
- Extruded aluminum frame post painted with gloss white enamel finish. Corners are precision welded for seamless aesthetic.
- Emergency options available with factory installed battery pack and remote field installed test switch/light with cover plate.
- Die formed driver box with standard access plate for ease of wiring, provides tool-free access to driver(s) from above.

- Backlit LED arrays with optics provide highly efficient and unpixelated transfer of light to the lens.
- Integral clips accommodate definitive attachment to T-bar grid for recessed applications.
- Die formed surface box accessory kit post painted gloss white enamel.

### Enclosure

- Diffuser provides visual comfort and high efficiency.
- Flat opal lens is easy to clean and provides a uniform aesthetic on the ceiling plane.
- Tight enclosure assembly impedes ingress of dust and insects.

### Electrical

- Up to 130 lm/W efficacy.
- High efficiency Advance driver featuring high power factor (>0.90), 120-277V 60/50Hz, and less than 15% THD.
- Minimum start temperature -20°C (-4°F).
- Standard configurations are 0-10V dimming to 1%. Base configurations are to 5%.
- To predict lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10. Typical lumen output is 1300lm for BSL10LST, and 800lm for BSL6LST.
- Electromagnetic interference (EMI) compliant to FCC Title 47 Part 15 class A.
- Flicker and stroboscopic effect compliant to NEMA 77-2017.

- TM-21 predicted L70 lumen maintenance up to 90,000 hours per LED manufacturer LM-80 report.
- cULus (Base) or cETLus (Standard) listed to UL and CSA standards, suitable for damp locations.
- Rated for clean room use -- meets ISO14644-1 Class 5-9 (equivalent to Federal Standard No. 209E Class 100-100,000)
- Base and Standard configurations are IC rated.
- FluxPanel luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers ([www.designlights.org/QPL](http://www.designlights.org/QPL)).

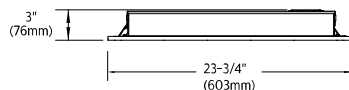
### General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.
- Five year limited luminaire warranty includes LED boards and driver. Visit [www.signify.com/warranties](http://www.signify.com/warranties) for complete warranty information.

### Energy data

Luminaire	Catalog Number	Input Power	Efficacy	DLC
2x4 Standard	2FPZ15L840	12	129	Standard
	2FPZ30L840	23	132	Premium
	2FPZ38L840	29	129	Premium
	2FPZ43L840	30	132	Premium
	2FPZ48L840	37	131	Premium
	2FPZ54L840	42	129	Premium
	2FPZ60L840	47	130	Premium
2x4 Base	2FPZ42B840	40	110	Standard

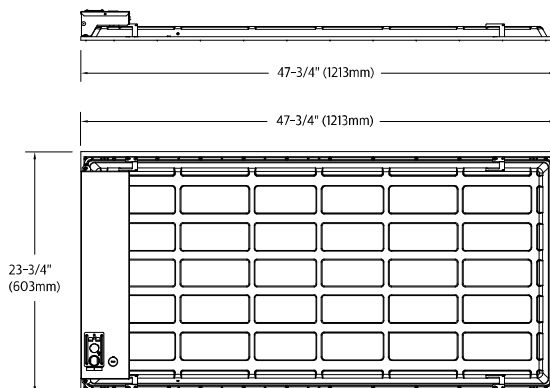
### Dimensions



**Note:** Base configurations are 1-9/16" deep. Standard configurations are 3" deep.

Emergency driver box shown is 20.5" (521mm) long.

Standard non-EM driver box is 10.5" (267mm) long





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
2FPZ42B835-4-DS-UNV-DIM

**Type:**

**R31**

Notes:

MID23-74318

## 2FPZ FluxPanel LED recessed 2x4

Up to 8000 lumens

### Wireless Controls Options

#### SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping, wireless mesh networking and dwell time.
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: –

**SWZDT** – [www.usa.lighting.philips.com/systems/lighting-systems/spacewise](http://www.usa.lighting.philips.com/systems/lighting-systems/spacewise)

#### Emergency Options (ER100)

- Power Sensing (Factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

### Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (SWZCS and an evolution of SpaceWise)

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
  - Compatible with:
    - SWS200 wireless scene switch
    - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
    - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
    - LCN3110: Battery powered IP65 presence sensor, OCC sensor IA CM IP65WH
    - LCN3120: Battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: [www.interact-lighting.com/interactproscalablesystem](http://www.interact-lighting.com/interactproscalablesystem)

### Radio only sensor (RADIO)

- Integral RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
2FPZ30L835-2-DS-UNV-DIM

Notes:

**Type:**  
**R35**

MID23-74318

**Day-Brite**  
**CFI**  
by Signify

**Recessed**

**FluxPanel LED gen 2 2x2**

Up to 5400 lumens



Day-Brite/CFI FluxPanel LED gen 2 recessed is a highly versatile luminaire designed to provide smooth lighting gradient on the lens surface and ease of installation. Available for use in recessed, suspended, and surface mount orientation, FluxPanel is ideal for general lighting applications such as open office, schools, healthcare, clean rooms, and retail.

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

**Ordering guide – Standard configurations available with all choices, unless otherwise noted.**  
Base configurations selections indicated by blue.

Example: 2FPZ38L840-2-DS-UNV-DIM-BSL6LST

Width	Family	Lumens	Color	Length	Diffuser	Voltage	Driver	Options <sup>2</sup>
2	FPZ		-	2	DS	-	-	
2' 2'	FPZ FluxPanel gen 2	<b>Base configuration<sup>4</sup></b> <b>38B</b> 3800 nominal delivered lumens <b>Standard configurations</b> <b>20L<sup>4,9</sup></b> 2000 nominal delivered lumens <b>30L</b> 3000 nominal delivered lumens <b>38L</b> 3800 nominal delivered lumens <b>45L</b> 4500 nominal delivered lumens <b>54L</b> 5400 nominal delivered lumens Other lumen packages may be ordered in increments of 100lm from 2000 to 5400 lumens	<b>835</b> 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	2' 2'	DS Diffuse (smooth)	UNV Universal Voltage, 120-277 volt 120 <sup>3</sup> 120V 277 277V 347 347V	DIM <sup>1</sup> 0-10V dimming SDIM <sup>6</sup> Step dimming to 40% input power XDIM <sup>3,6</sup> MarkX phase dimming	F1 3/8" flex, 3 wire 18 gauge 6' F2 3/8" flex, 4 wire 18 gauge 6' F1/D 3/8" twin flex, 3 wire 18 gauge 6' for dimmable luminaires F2/5W 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires F2/6W 3/8" single flex, 6 wire 18 gauge 6' for dimmable and emergency luminaires GLR Fusing, fast blow ER100 <sup>4,5,11,12</sup> UL924 listed sensor bypass relay, factory installed between driver & sensor BSL10LST <sup>5,9</sup> Bodine 10W battery pack BSL6LST <sup>5,9</sup> Bodine 6W battery pack SWZCSR <sup>1,4,7,8,10</sup> Remote Interact Pro scalable sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SWZDTRM <sup>1,4,7</sup> Remote SpaceWise only sensor, daylighting and occupancy, advanced grouping with dwell time RADIO <sup>1,4,5,7</sup> Interact Pro RF sensor, enables wireless connected lighting control DSC Quick driver disconnect CHIC Chicago Plenum rated BAC <sup>13</sup> Meets the requirements of the Buy American Act of 1933 (BAA)

**Footnotes**

- Integral control options dimmable to 1% via wireless wall switch. Non-controls options are 0-10V dimmable to 1% for Standard configurations and 5% for Base configurations.
- All options only available with Standard configurations.
- XDIM is 120V only.
- Specify DIM driver option only.
- Not available with 347V option.
- Available in 30L through 54L packages.
- Not available with surface or suspended accessories.
- Maximum of 4 luminaires per controller.
- Emergency and Control options not clean room certified.
- Must order IRT9015 Interact commissioning remote with each system order.
- Must be installed in conjunction with a UL1008 device.
- Must be ordered with an integral controls option.
- Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- Consult Signify to confirm whether specific accessories are BAA-compliant.

**Accessories<sup>14</sup> (order separately)**

- **FMA22** – 2'x2' "F" mounting frame for NEMA "F" mounting
- **FSK22** – 2'x2' surface mount field installation kit (factory welded seams)
- **FSF22** – 2'x2' surface mount field assembly kit (field assembled)
- **FPZCH48-1D-SC-UNV** – adjustable cable hanger kit with straight white 18/5 cord for dimming (two-1 powered, 1 non-powered)
- **FPZCH48-1D-SC-347** – adjustable cable hanger kit with straight white 18/5 cord for dimming (two-1 powered, 1 non-powered)
- **SWZDT<sup>1,7,8,9</sup>** – SpaceWise wireless controller with daylighting and occupancy, advanced grouping with dwell time functionality (compatible with all 0-10V options, see SWZDT spec sheet)
- **SBZA10-CS<sup>7,8,9,10</sup>** – Interact Ready System Bridge Accessory, refer to Philips System Bridge Accessory specification sheet for options and ordering details
- **IRT9015** – handheld remote for grouping and configuration (at least one remote required for any SWZCS installation).



interact ready.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
2FPZ30L835-2-DS-UNV-DIM

Notes:

**Type:**

**R35**

MID23-74318

## 2FPZ FluxPanel LED recessed 2x2

### Up to 5400 lumens

#### Application

- Base configurations are 1 9/16". Standard configurations are 3". Dimensions stated for overall depth, including driver box.
- Even distribution of light on the lens provides exceptionally low glare gradient minimizing distractions at the ceiling plane.
- General light distribution creates uniform horizontal and vertical illuminance on the work plane and limits scalloping on the walls.
- Excellent consistency of correlated color temperature (CCT) per ANSI C78.377.
- CRI 80 minimum color rendering with balanced spectrum.
- Designed for use with standard Grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-bars. Drywall or plaster application require use with the FMA22 "F" mounting frame accessory (sold and shipped separately).
- Accessory field install kits available for surface (FSF22) and suspended (FPZCH48) mounting.

#### Construction/Finish

- Die formed galvanized steel housing.
- Extruded aluminum frame post painted with gloss white enamel finish. Corners are precision welded for seamless aesthetic.
- Emergency options available with factory installed battery pack and remote field installed test switch/light with cover plate.

- Die formed driver box with standard access plate for ease of wiring, provides tool-free access to driver(s) from above.
- Back lit LED arrays with optics provide highly efficient and unpixelated transfer of light to the diffuser.
- Integral clips accommodate definitive attachment to T-bar grid for recessed applications.
- Die formed surface box accessory kit post painted gloss white enamel.

#### Enclosure

- Diffuser provides visual comfort and high efficiency.
- Flat opal lens is easy to clean and provides a uniform aesthetic on the ceiling plane.
- Tight enclosure assembly impedes ingress of dust and insects.

#### Electrical

- Up to 130 lm/W efficacy.
- High efficiency Advance driver featuring high power factor (>0.90), 120-277V 60/50Hz, and less than 15% THD.
- Minimum start temperature -20°C (-4°F).
- Standard configurations are 0-10V dimming to 1%. Base configurations are to 5%.
- To predict lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10. Typical lumen output is 1200lm for BSL10LST, and 850lm for BSL6LST.

- Electromagnetic interference (EMI) compliant to FCC Title 47 Part 15 class A.
- Flicker and stroboscopic effect compliant to NEMA 77-2017.
- TM-21 predicted L70 lumen maintenance up to 90,000 hours per LED manufacturer LM-80 report.
- cULus (Base) or cETLus (Standard) listed to UL and CSA standards, suitable for damp locations.
- Rated for clean room use - meets ISO14644-1 Class 5-9 (equivalent to Federal Standard No. 209E Class 100-100,000)
- Base and Standard configurations are IC rated.
- FluxPanel luminaires are Designlights Consortium® Standard and Premium qualified. Please see the DLC QPL list for exact catalog numbers ([www.designlights.org/QPL](http://www.designlights.org/QPL)).

#### General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.
- Five year limited luminaire warranty includes LED boards and driver. Visit [www.signify.com/warranties](http://www.signify.com/warranties) for complete warranty information.

#### Energy data

Luminaire	Catalog Number	Input Power	Efficacy	DLC
2x2 Standard	2FPZ20L840	16	127	Premium
	2FPZ30L840	23	129	Premium
	2FPZ38L840	34	129	Premium
	2FPZ45L840	36	128	Premium
2x2 Base	2FPZ38B840	33	119	Standard

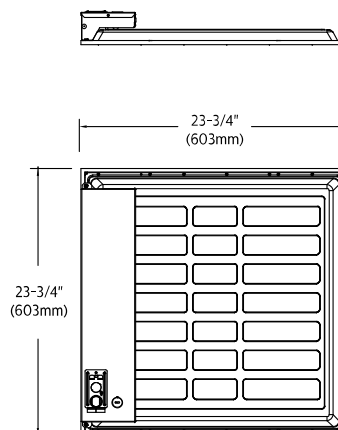
#### Dimensions



**Note:** Base configurations are 1-9/16" deep. Standard configurations are 3" deep.

Emergency driver box shown is 20.5" (521mm) long.

Standard non-EM driver box is 10.5" (267mm) long oriented 90° in tabs shown.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
2FPZ30L835-2-DS-UNV-DIM

**Type:**

**R35**

Notes:

MID23-74318

## 2FPZ FluxPanel LED recessed 2x2

Up to 5400 lumens

### Wireless Controls Options

#### SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping, wireless mesh networking and dwell time.
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: –

**SWZDT** – [www.usa.lighting.philips.com/systems/lighting-systems/spacewise](http://www.usa.lighting.philips.com/systems/lighting-systems/spacewise)

#### Emergency Options (ER100)

- Power Sensing (Factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

### Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (SWZCS and an evolution of SpaceWise)

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with:
  - SWS200 wireless scene switch
  - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
  - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
  - LCN3110: Battery powered IP65 presence sensor, OCC sensor IA CM IP65WH
  - LCN3120: Battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: [www.interact-lighting.com/interactproscalablesystem](http://www.interact-lighting.com/interactproscalablesystem)

### Radio only sensor (RADIO)

- Integral RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
2FPZ30L835-2-DS-UNV-DIM

**Type:**  
**R35**

Notes:

MID23-74318

# 2FPZ FluxPanel LED recessed 2x2

## Up to 5400 lumens

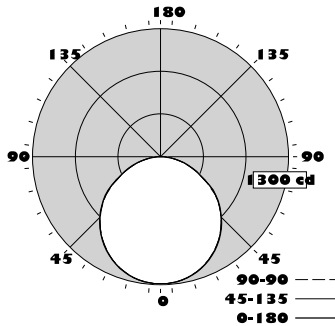
### 2FPZ38L835-2-DS-UNV-DIM

Luminaire Lumens 3710  
Luminaire Efficacy Rating (LER) 125  
Total Luminaire Watts 29.8  
Spacing Criterion (0-180) 1.26

Candela Distribution						Flux
	0	22.5	45	67.5	90	Lumens
0	1293	1293	1293	1293	1293	
5	1288	1287	1288	1287	1288	122
15	1245	1244	1244	1244	1245	351
25	1159	1156	1155	1156	1159	533
35	1034	1030	1028	1030	1034	644
45	873	869	866	869	873	671
55	686	681	677	681	686	607
65	445	441	439	441	445	442
75	248	244	244	244	248	259
85	69	67	71	67	69	79
90	4	8	24	8	4	

Zonal Lumen Summary			
Zone	Lumens	%Fixture	%Lamp
0-30	1007	27.1%	27.1%
0-40	1651	44.5%	44.5%
0-60	2928	78.9%	78.9%
0-90	3709	100.0%	100.0%
0-180	3710	100.0%	100.0%

Avg. Luminance (cd/m <sup>2</sup> )			
	0	90	180
0	4247	4247	4247
5	4247	4246	4247
15	4234	4230	4234
25	4199	4185	4199
35	4145	4120	4145
45	4056	4023	4056
55	3930	3879	3930
65	3461	3414	3461
75	3146	3096	3146
85	2604	2657	2604



### Coefficients of Utilization %

Pc---	80				70				50				0
Pw---	70	50	30	10	70	50	30	50	30	10	10	0	
RCR	0	119	119	119	119	116	116	116	111	111	111	100	
	1	109	104	99	96	106	101	98	97	94	91	83	
	2	99	90	83	78	96	88	82	85	80	75	69	
	3	90	79	71	65	87	78	70	75	68	63	58	
	4	82	70	61	55	80	69	61	66	59	53	50	
	5	76	63	54	47	74	62	53	59	52	46	43	
	6	70	56	47	41	68	55	47	54	46	40	38	
	7	65	51	42	36	63	50	42	49	41	36	33	
	8	60	47	38	32	59	46	38	45	37	32	30	
	9	56	43	35	29	55	42	34	41	34	29	27	
	10	53	39	32	26	51	39	31	38	31	26	24	

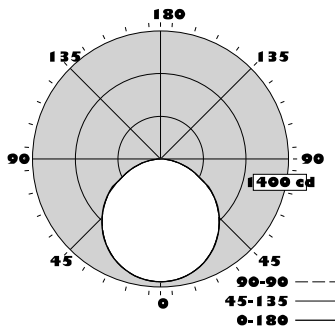
### 2FPZ38L840-2-DS-UNV-DIM

Luminaire Lumens 3857  
Luminaire Efficacy Rating (LER) 129  
Total Luminaire Watts 29.8  
Spacing Criterion (0-180) 1.27

Candela Distribution						Flux
	0	22.5	45	67.5	90	Lumens
0	1344	1344	1344	1344	1344	
5	1339	1337	1339	1337	1339	127
15	1294	1292	1293	1292	1294	365
25	1204	1202	1201	1202	1204	554
35	1074	1071	1068	1071	1074	670
45	908	904	901	904	908	697
55	713	708	705	708	713	632
65	463	459	456	459	463	461
75	257	253	252	253	257	269
85	71	69	71	69	71	81
90	4	8	22	8	4	

Zonal Lumen Summary			
Zone	Lumens	%Fixture	%Lamp
0-30	1046	27.1%	27.1%
0-40	1716	44.5%	44.5%
0-60	3045	78.9%	78.9%
0-90	3856	100.0%	100.0%
0-180	3857	100.0%	100.0%

Avg. Luminance (cd/m <sup>2</sup> )			
	0	90	180
0	4413	4413	4413
5	4415	4413	4415
15	4400	4397	4400
25	4363	4351	4363
35	4307	4283	4307
45	4216	4185	4216
55	4084	4035	4084
65	3594	3543	3594
75	3256	3203	3256
85	2676	2679	2676



### Coefficients of Utilization %

Pc---	80				70				50				0
Pw---	70	50	30	10	70	50	30	50	30	10	10	0	
RCR	0	119	119	119	119	116	116	116	111	111	111	100	
	1	109	104	99	96	106	102	98	97	94	91	83	
	2	99	90	83	78	96	88	82	85	80	75	69	
	3	90	79	71	65	87	78	70	75	68	63	58	
	4	82	70	61	55	80	69	61	66	59	53	50	
	5	76	63	54	47	74	62	53	59	52	46	43	
	6	70	56	47	41	68	55	47	54	46	40	38	
	7	65	51	42	36	63	50	42	49	41	36	33	
	8	60	47	38	32	59	46	38	45	37	32	30	
	9	56	43	35	29	55	42	34	41	34	29	27	
	10	53	39	32	26	51	39	31	38	31	26	24	



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# Day-Brite

## CFI

by 

### Recessed

## FluxPanel LED gen 2 2x2

Up to 5400 lumens



Day-Brite/CFI FluxPanel LED gen 2 recessed is a highly versatile luminaire designed to provide smooth lighting gradient on the lens surface and ease of installation. Available for use in recessed, suspended, and surface mount orientation, FluxPanel is ideal for general lighting applications such as open office, schools, healthcare, clean rooms, and retail.

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

**Ordering guide – Standard configurations available with all choices, unless otherwise noted.**  
Base configurations selections indicated by blue.

Example: 2FPZ38L840-2-DS-UNV-DIM-BSL6LST

Width	Family	Lumens	Color	Length	Diffuser	Voltage	Driver	Options <sup>2</sup>
2	FPZ		-	2	DS	-	-	
2' 2'	FPZ FluxPanel gen 2	<b>Base configuration<sup>4</sup></b> <b>38B</b> 3800 nominal delivered lumens  <b>Standard configurations</b> <b>20L<sup>4,9</sup></b> 2000 nominal delivered lumens <b>30L</b> 3000 nominal delivered lumens <b>38L</b> 3800 nominal delivered lumens <b>45L</b> 4500 nominal delivered lumens <b>54L</b> 5400 nominal delivered lumens  Other lumen packages may be ordered in increments of 100lm from 2000 to 5400 lumens	<b>835</b> 80 CRI, 3500K <b>840</b> 80 CRI, 4000K <b>850</b> 80 CRI, 5000K	2' 2'	DS Diffuse (smooth)	UNV Universal Voltage, 120-277  120 <sup>3</sup> 120V 277 277V 347 347V	DIM <sup>1</sup> 0-10V dimming  SDIM <sup>6</sup> Step dimming to 40% input power  XDIM <sup>3,6</sup> MarkX phase dimming	F1 3/8" flex, 3 wire 18 gauge 6' F2 3/8" flex, 4 wire 18 gauge 6' F1/D 3/8" twin flex, 3 wire 18 gauge 6' for dimmable luminaires F2/5W 3/8" single flex, 5 wire 18 gauge 6' for dimmable luminaires F2/6W 3/8" single flex, 6 wire 18 gauge 6' for dimmable and emergency luminaires GLR Fusing, fast blow ER100 <sup>4,5,11,12</sup> UL924 listed sensor bypass relay, factory installed between driver & sensor BSL10LST <sup>5,9</sup> Bodine 10W battery pack BSL6LST <sup>5,9</sup> Bodine 6W battery pack SWZCSR <sup>1,4,7,8,10</sup> Remote Interact Pro scalable sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SWZDTRM <sup>1,4,7</sup> Remote SpaceWise only sensor, daylighting and occupancy, advanced grouping with dwell time RADIO <sup>1,4,5,7</sup> Interact Pro RF sensor, enables wireless connected lighting control DSC Quick driver disconnect CHIC Chicago Plenum rated BAC <sup>13</sup> Meets the requirements of the Buy American Act of 1933 (BAA)

**Footnotes**

- Integral control options dimmable to 1% via wireless wall switch. Non-controls options are 0-10V dimmable to 1% for Standard configurations and 5% for Base configurations.
- All options only available with Standard configurations.
- XDIM is 120V only.
- Specify DIM driver option only.
- Not available with 347V option.
- Available in 30L through 54L packages.
- Not available with surface or suspended accessories.
- Maximum of 4 luminaires per controller.
- Emergency and Control options not clean room certified.
- Must order IRT9015 Interact commissioning remote with each system order.
- Must be installed in conjunction with a UL1008 device.
- Must be ordered with an integral controls option.
- Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- Consult Signify to confirm whether specific accessories are BAA-compliant.

**Accessories<sup>14</sup> (order separately)**

- FMA22** – 2'x2' "F" mounting frame for NEMA "F" mounting
- FSK22** – 2'x2' surface mount field installation kit (factory welded seams)
- FSF22** – 2'x2' surface mount field assembly kit (field assembled)
- FPZCH48-1D-SC-UNV** – adjustable cable hanger kit with straight white 18/5 cord for dimming (two-1 powered, 1 non-powered)
- FPZCH48-1D-SC-347** – adjustable cable hanger kit with straight white 18/5 cord for dimming (two-1 powered, 1 non-powered)
- SWZDT<sup>1,7,8,9</sup>** – SpaceWise wireless controller with daylighting and occupancy, advanced grouping with dwell time functionality (compatible with all 0-10V options, see SWZDT spec sheet)
- SBAZ10-CS<sup>7,8,9,10</sup>** – Interact Ready System Bridge Accessory, refer to Philips System Bridge Accessory specification sheet for options and ordering details
- IRT9015** – handheld remote for grouping and configuration (at least one remote required for any SWZCS installation).



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
2FPZ38B835-2-DS-UNV-DIM

Notes:

**Type:**

**R36**

MID23-74318

## 2FPZ FluxPanel LED recessed 2x2

### Up to 5400 lumens

#### Application

- Base configurations are 1 9/16". Standard configurations are 3". Dimensions stated for overall depth, including driver box.
- Even distribution of light on the lens provides exceptionally low glare gradient minimizing distractions at the ceiling plane.
- General light distribution creates uniform horizontal and vertical illuminance on the work plane and limits scalloping on the walls.
- Excellent consistency of correlated color temperature (CCT) per ANSI C78.377.
- CRI 80 minimum color rendering with balanced spectrum.
- Designed for use with standard Grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-bars. Drywall or plaster application require use with the FMA22 "F" mounting frame accessory (sold and shipped separately).
- Accessory field install kits available for surface (FSF22) and suspended (FPZCH48) mounting.

#### Construction/Finish

- Die formed galvanized steel housing.
- Extruded aluminum frame post painted with gloss white enamel finish. Corners are precision welded for seamless aesthetic.
- Emergency options available with factory installed battery pack and remote field installed test switch/light with cover plate.

- Die formed driver box with standard access plate for ease of wiring, provides tool-free access to driver(s) from above.
- Back lit LED arrays with optics provide highly efficient and unpixelated transfer of light to the diffuser.
- Integral clips accommodate definitive attachment to T-bar grid for recessed applications.
- Die formed surface box accessory kit post painted gloss white enamel.

#### Enclosure

- Diffuser provides visual comfort and high efficiency.
- Flat opal lens is easy to clean and provides a uniform aesthetic on the ceiling plane.
- Tight enclosure assembly impedes ingress of dust and insects.

#### Electrical

- Up to 130 lm/W efficacy.
- High efficiency Advance driver featuring high power factor (>0.90), 120-277V 60/50Hz, and less than 15% THD.
- Minimum start temperature -20°C (-4°F).
- Standard configurations are 0-10V dimming to 1%. Base configurations are to 5%.
- To predict lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10. Typical lumen output is 1200lm for BSL10LST, and 850lm for BSL6LST.

- Electromagnetic interference (EMI) compliant to FCC Title 47 Part 15 class A.
- Flicker and stroboscopic effect compliant to NEMA 77-2017.
- TM-21 predicted L70 lumen maintenance up to 90,000 hours per LED manufacturer LM-80 report.
- cULus (Base) or cETLus (Standard) listed to UL and CSA standards, suitable for damp locations.
- Rated for clean room use - meets ISO14644-1 Class 5-9 (equivalent to Federal Standard No. 209E Class 100-100,000)
- Base and Standard configurations are IC rated.
- FluxPanel luminaires are Designlights Consortium® Standard and Premium qualified. Please see the DLC QPL list for exact catalog numbers ([www.designlights.org/QPL](http://www.designlights.org/QPL)).

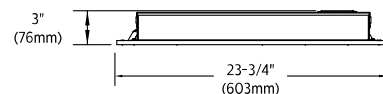
#### General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.
- Five year limited luminaire warranty includes LED boards and driver. Visit [www.signify.com/warranties](http://www.signify.com/warranties) for complete warranty information.

#### Energy data

Luminaire	Catalog Number	Input Power	Efficacy	DLC
2x2 Standard	2FPZ20L840	16	127	Premium
	2FPZ30L840	23	129	Premium
	2FPZ38L840	34	129	Premium
	2FPZ45L840	36	128	Premium
2x2 Base	2FPZ38B840	33	119	Standard

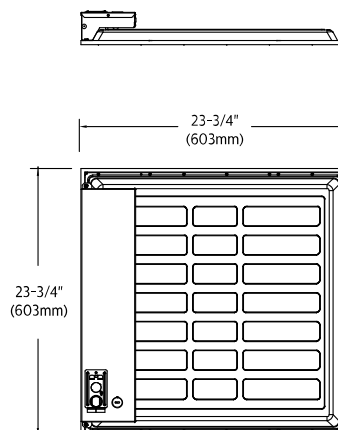
#### Dimensions



**Note:** Base configurations are 1-9/16" deep. Standard configurations are 3" deep.

Emergency driver box shown is 20.5" (521mm) long.

Standard non-EM driver box is 10.5" (267mm) long oriented 90° in tabs shown.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
2FPZ38B835-2-DS-UNV-DIM

**Type:**

**R36**

Notes:

MID23-74318

## 2FPZ FluxPanel LED recessed 2x2

Up to 5400 lumens

### Wireless Controls Options

#### SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping, wireless mesh networking and dwell time.
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: –

**SWZDT** – [www.usa.lighting.philips.com/systems/lighting-systems/spacewise](http://www.usa.lighting.philips.com/systems/lighting-systems/spacewise)

#### Emergency Options (ER100)

- Power Sensing (Factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

#### Interact Pro scalable sensor for

#### Foundation, Advanced & Enterprise tiers (SWZCS and an evolution of SpaceWise)

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with:
  - SWS200 wireless scene switch
  - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
  - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
  - LCN3110: Battery powered IP65 presence sensor, OCC sensor IA CM IP65WH
  - LCN3120: Battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: [www.interact-lighting.com/interactproscalablesystem](http://www.interact-lighting.com/interactproscalablesystem)

#### Radio only sensor (RADIO)

- Integral RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
2FPZ38B835-2-DS-UNV-DIM

Notes:

**Type:**  
**R36**

MID23-74318

# 2FPZ FluxPanel LED recessed 2x2

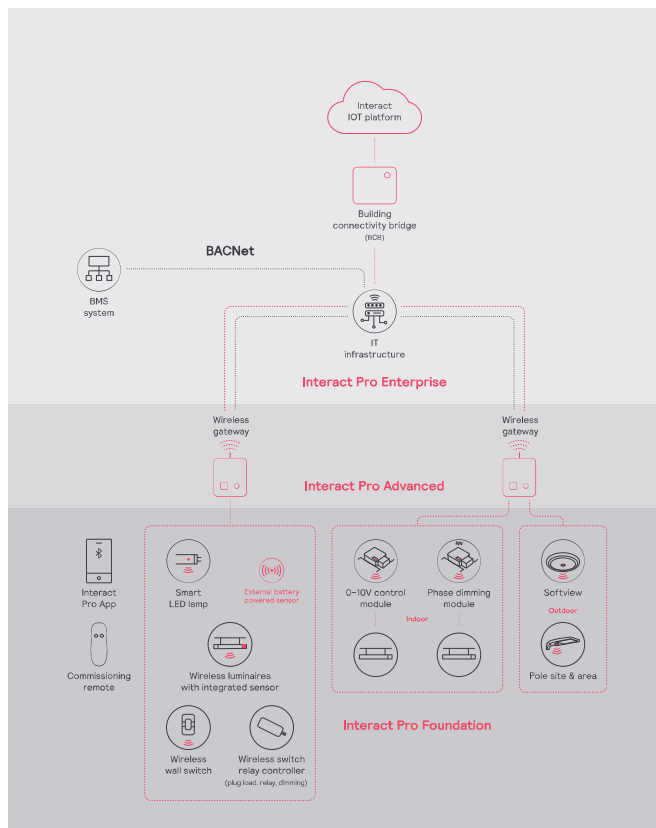
Up to 5400 lumens

Interact Pro scalable system			
	Foundation	Advanced	Enterprise
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

**Currently supported maximum system size**

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDS	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16







**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
2FPZ38B835-2-DS-UNV-DIM

**Type:**  
**R36**

Notes:

MID23-74318

# 2FPZ FluxPanel LED recessed 2x2

## Up to 5400 lumens

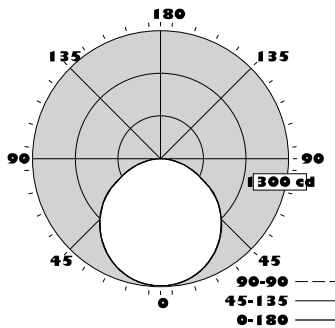
### 2FPZ38L835-2-DS-UNV-DIM

Luminaire Lumens 3710  
Luminaire Efficacy Rating (LER) 125  
Total Luminaire Watts 29.6  
Spacing Criterion (0-180) 1.26

Candela Distribution						Flux
	0	22.5	45	67.5	90	Lumens
0	1293	1293	1293	1293	1293	
5	1288	1287	1288	1287	1288	122
15	1245	1244	1244	1244	1245	351
25	1159	1156	1155	1156	1159	533
35	1034	1030	1028	1030	1034	644
45	873	869	866	869	873	671
55	686	681	677	681	686	607
65	445	441	439	441	445	442
75	248	244	244	244	248	259
85	69	67	71	67	69	79
90	4	8	24	8	4	

Zonal Lumen Summary			
Zone	Lumens	%Fixture	%Lamp
0-30	1007	27.1%	27.1%
0-40	1651	44.5%	44.5%
0-60	2928	78.9%	78.9%
0-90	3709	100.0%	100.0%
0-180	3710	100.0%	100.0%

Avg. Luminance (cd/m <sup>2</sup> )			
	0	90	180
0	4247	4247	4247
5	4247	4246	4247
15	4234	4230	4234
25	4199	4185	4199
35	4145	4120	4145
45	4056	4023	4056
55	3930	3879	3930
65	3461	3414	3461
75	3146	3096	3146
85	2604	2657	2604



### Coefficients of Utilization %

Pc---	80				70				50				0
Pw---	70	50	30	10	70	50	30	50	30	10	10	0	
RCR	0	119	119	119	119	116	116	116	111	111	111	100	
	1	109	104	99	96	106	101	98	97	94	91	83	
	2	99	90	83	78	96	88	82	85	80	75	69	
	3	90	79	71	65	87	78	70	75	68	63	58	
	4	82	70	61	55	80	69	61	66	59	53	50	
	5	76	63	54	47	74	62	53	59	52	46	43	
	6	70	56	47	41	68	55	47	54	46	40	38	
	7	65	51	42	36	63	50	42	49	41	36	33	
	8	60	47	38	32	59	46	38	45	37	32	30	
	9	56	43	35	29	55	42	34	41	34	29	27	
	10	53	39	32	26	51	39	31	38	31	26	24	

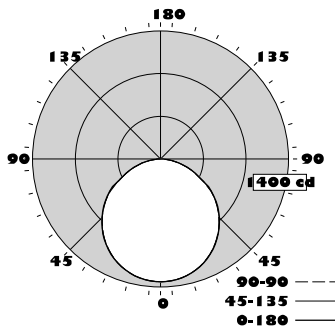
### 2FPZ38L840-2-DS-UNV-DIM

Luminaire Lumens 3857  
Luminaire Efficacy Rating (LER) 129  
Total Luminaire Watts 29.8  
Spacing Criterion (0-180) 1.27

Candela Distribution						Flux
	0	22.5	45	67.5	90	Lumens
0	1344	1344	1344	1344	1344	
5	1339	1337	1339	1337	1339	127
15	1294	1292	1293	1292	1294	365
25	1204	1202	1201	1202	1204	554
35	1074	1071	1068	1071	1074	670
45	908	904	901	904	908	697
55	713	708	705	708	713	632
65	463	459	456	459	463	461
75	257	253	252	253	257	269
85	71	69	71	69	71	81
90	4	8	22	8	4	

Zonal Lumen Summary			
Zone	Lumens	%Fixture	%Lamp
0-30	1046	27.1%	27.1%
0-40	1716	44.5%	44.5%
0-60	3045	78.9%	78.9%
0-90	3856	100.0%	100.0%
0-180	3857	100.0%	100.0%

Avg. Luminance (cd/m <sup>2</sup> )			
	0	90	180
0	4413	4413	4413
5	4415	4413	4415
15	4400	4397	4400
25	4363	4351	4363
35	4307	4283	4307
45	4216	4185	4216
55	4084	4035	4084
65	3594	3543	3594
75	3256	3203	3256
85	2676	2679	2676



### Coefficients of Utilization %

Pc---	80				70				50				0
Pw---	70	50	30	10	70	50	30	50	30	10	10	0	
RCR	0	119	119	119	119	116	116	116	111	111	111	100	
	1	109	104	99	96	106	102	98	97	94	91	83	
	2	99	90	83	78	96	88	82	85	80	75	69	
	3	90	79	71	65	87	78	70	75	68	63	58	
	4	82	70	61	55	80	69	61	66	59	53	50	
	5	76	63	54	47	74	62	53	59	52	46	43	
	6	70	56	47	41	68	55	47	54	46	40	38	
	7	65	51	42	36	63	50	42	49	41	36	33	
	8	60	47	38	32	59	46	38	45	37	32	30	
	9	56	43	35	29	55	42	34	41	34	29	27	
	10	53	39	32	26	51	39	31	38	31	26	24	



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**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:**  
**R42-6'**

MID23-74318



# LIGHTPLANE 3.5R

LP3.5R | RECESSED



## SPECIFICATIONS

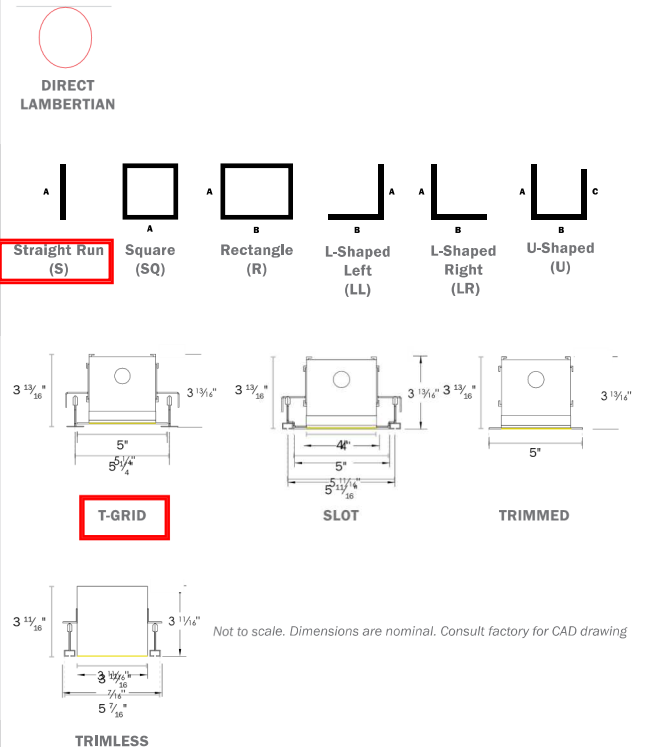
<b>PROFILE</b>	3.5" Aperture, 3 11/16" height
<b>SIZES</b>	Configurable linear sections and shapes. 2ft minimum length.
<b>LED OUTPUT</b>	125lm/ft - 1,100lm/ft. Accent downlights available (800/1000/1500lm Output Options).
<b>CCT/CRI</b>	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W
<b>DIMMING/ DRIVER</b>	Integral Driver: 0-10V, DALI, DMX, eidoLED, Lutron®, PoE (Molex, Igor, NuLEDS). Dimming to 0% for select models.
<b>POWER</b>	6.2W - 10.7W per ft
<b>INPUT</b>	120VAC, 277VAC, or 347VAC
<b>OPTICS</b>	Lambertian distribution
<b>FINISHES</b>	18 standard finishes at no extra charge. Custom finishes available.
<b>MATERIAL</b>	6061 Extruded Aluminum
<b>ENVIRONMENT</b>	Dry or damp locations

**WELL/UGR**

See pages 7-8 for recommended options that contribute to meeting the WELL Building Standard™. UGR values available under 'Glare Control' on page 7.

\*Safety and Performance information available on last page. Output and other specifications available on pages 9-10.

## DISTRIBUTIONS & PROFILES



Rev 120622

**LP3.5R - SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
1 of 17



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

**Type:**  
**R42-6'**

Notes:

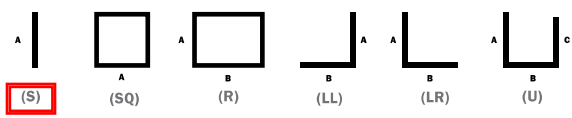
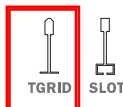
MID23-74318



**PRODUCT SPECIFICATION SHEET**



1	2	3	4a	4b	4c	5	6	7a	7b	7c	7d	8	9	10	11	12	
13a	13b	13c	<b>EXAMPLE: LP3.5RT - DRY - S5 - MED/90/3500 - LTEA - EXT - DL1000/80/3500/25 - HEX - LTEA - 1 - SW - UNV</b>														
			- EMB/1 - NLT - CP														
			13a	13b	13c	1	2	3	4	5	6	7	8	9	10	11	12

<b>1. BASE MODEL (CHOOSE 1)</b>	<b>2. CEILING TYPE* (CHOOSE 1)</b>	<b>3. SHAPE/LENGTH (CHOOSE 1 &amp; ENTER LENGTH IN FEET) - FOR CUSTOM ANGLES, CONTACT ALW</b>
QS <b>LP3.5RT</b> 3.5" Trimmed w/Flush Lens QS <b>LP3.5RTDL*</b> 3.5" Trimmed w/Dropped Reveal lens QS <b>LP3.5RTRL</b> 3.5" Trimmed w/Regressed Lens QS <b>LP3.5RMUD</b> 3.5" Mud-in w/Flush Lens QS <b>LP3.5RHF</b> 3.5" Hidden Flange w/Flush Lens *Not compatible with accent downlight.	QS <b>DRY*</b> Drywall QS <b>TGRID*</b> T-Grid QS <b>SLOT*</b> Slot QS <b>ATZ/TGRID<sup>1,5</sup></b> Armstrong® Techzone T-Grid QS <b>ATZ/SLOT<sup>1,5</sup></b> Armstrong® Techzone Slot *Additional ceiling types may be available, consult ALW. *Not available with LP3.5RHF base model. *Only available with LP3.5RT and LP3.5RDL base models. *All product and company names are trademarks or registered trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them.	QS <b>s 6'</b> Individual/Straight Run Section (enter length in product code above, ex. S5) QS <b>SQ</b> Square Configuration (enter side length A, ex: SQ5) QS <b>R</b> Rectangular Configuration (enter side lengths A and B, ex. R5-7) QS <b>LL_</b> L-Shaped, Left Configuration (enter side lengths A and B, ex. LL5-7) QS <b>LR_</b> L-Shaped, Right Configuration (enter side lengths A and B, ex. LR5-7) QS <b>U_</b> U-Shaped Configuration (enter side lengths A, B, and C, ex. U5-7-4) *Lengths are nominal and may vary based on lamping and other specification selections. Consult ALW when exact lengths are required. *Shape orientation (Looking from the Ceiling down to the floor)



**MOD = 900 lm/ft**

<b>4. LED LAMPING* (CHOOSE 1 FOR EACH)</b>	<b>5. DRIVER* (CHOOSE 1)</b>	<b>6. LENS*</b>	<b>7. ACCENT - DOWNLIGHT* (CHOOSE 1 FOR EACH)</b>
A. OUTPUT QS <b>LOW</b> (635 lm/ft) QS <b>MED</b> (870 lm/ft) QS <b>HI</b> (1100 lm/ft) QS <b>RGB</b> (125 lm/ft) QS <b>TUNE</b> (2700K-6500K) 90 CRI, 416/450 lm/ft QS <b>RGBW</b> (3500K, White, 80 CRI, 325 lm/ft) QS <b>CSTM</b> _____10(Enter lumens in product code above. Ex. 0100=100lm/ft) *For delivered lumens and watts, see 'Performance Details' *CRI/CCT options not applicable for TUNE, RGB, or RGBW lamping *Choose when TUNE, RGB, or RGBW is desired output *Static BIOS SkyBlue® 490nm LED is always on, Dynamic BIOS SkyBlue® 490nm LED can be tuned out with most LED driver and dimmer combinations. See pages 10-11 for details. *90 CRI only. 2700K is not available in BIOS options *10 Consult ALW for custom lumen packages.	QS <b>V00</b> (0-10V, dim to 0%) QS <b>V01</b> (0-10V, dim to 1%) QS <b>V05</b> (0-10V, dim to 5%) QS <b>PO1</b> (Phase, dim to 1%) QS <b>LDE1</b> (Lutron ECOSYS1, 0-10V, dim to 1%) QS <b>LTEA</b> (Lutron HL-Lume, Phase dim, 2-wire to 1%) QS <b>TSERIES</b> (Lutron Tuneable White) QS <b>ELDVO</b> (eldoLED, 0-10V, dim to 0%) QS <b>ELDDW</b> (eldoLED dim to warm) QS <b>DALI</b> (DALI, dim to 0%) QS <b>DMX</b> (DMX, dim to 0%) QS <b>POEM</b> (POE Molex) QS <b>POEI</b> (POE IGOR) QS <b>POEN</b> (POE Nuleds) QS <b>POE<sup>13</sup></b> (POE Ready) *See 'Driver', 'Sensor' and lamping charts for driver details and sensor compatibility. *13 Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice.	QS <b>EXT</b> Diffuse lens *Looking for an asymmetric lens? Refer to ALW's SP2.5R or SP4R fixtures.	QS <b>N</b> None. Select when Accent Downlight Lamping not desired. A. SPOT QS <b>DL800</b> (800 lm/ft) <b>80</b> <b>2700K</b> QS <b>DL1000</b> (1000 lm/ft) <b>90</b> <b>3000K</b> QS <b>DL1500</b> (1500 lm/ft) <b>3500K</b> <b>4000K</b> B. CRI C. CCT D. BEAM SPREAD QS <b>25</b> QS <b>40</b> *Downlights are not available in BIOS options as the COB is too large to fit in downlight housing.

<b>8. ACCESSORY-ACCENT DOWNLIGHT (CHOOSE 1)</b>	<b>9. DRIVER - ACCENT DOWNLIGHT (CHOOSE 1)</b>	<b>10. QUANTITY - ACCENT DOWNLIGHT (CHOOSE 1)</b>	<b>11. FINISH (CHOOSE 1)</b>
QS <b>N</b> None QS <b>HEX</b> Hexcell louver QS <b>SNT</b> Snoot QS <b>HEXSNT</b> Both Hexcell louver and Snoot  	QS <b>N</b> None. Select when Accent Downlight Lamping not desired. _____12 Manually type code for desired driver in product code above. *12 Accent downlights not available with TSERIES and ELDO/DW driver types.	QS <b>N</b> None _____ Type total quantity of downlights per run length in product code on previous page. (Maximum 1x for 2-3ft., 2x for 4-5ft, and 3x for 6-8ft.)	<b>STANDARD FINISHES</b> QS <b>AL</b> Anodized Aluminum QS <b>SW</b> Satin White QS <b>SB</b> Satin Black _____ See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: 0B = Oil-Rubbed Bronze) <b>SPECIAL ORDER FINISHES*</b> QS <b>RAL</b> Specify RAL Classic Color (Ex: RAL 3003) - QS <b>CAT</b> Specify Catalog Colors QS <b>CCM</b> Custom Color Match *Manually type in the finish code for special order finishes.

**TW = TEXTURED WHITE**

CONTINUES ON NEXT PAGE →

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS".  
NOTE: Maximum 800 ft. of QuickShip-eligible product per order.

Rev 120622

**LP3.5R - SPECIFICATIONS RECESSED**

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2 of 17



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

Type:

**R42-6'**

MID23-74318

**PRODUCT SPECIFICATION SHEET CONT'D**

12. VOLTAGE (CHOOSE 1)	13a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)
QS <b>UNV</b> Universal Voltage (120VAC-277VAC) <b>347</b> 347 Volt (Driver options may be limited. Not available with EMB)	QS <b>EMB/___</b> <sup>13</sup> Emergency Battery (indicate QTY – each battery powers 4ft. section @ 1492lm. Not available in 347 V)  QS <b>EMC/___</b> <sup>13</sup> Emergency Circuit ( indicate QTY of 4ft sections to be illuminated by emergency circuit)
<sup>13</sup> For fixtures under 4ft in length, entire fixture will be illuminated with a proportional lumen output. Consult ALW for more details.	

13b. SENSOR OPTIONS* (OPTIONAL, CHOOSE 1)	13c. ADDITIONAL OPTIONS* (OPTIONAL)
<b>N</b> (None) <b>WLN/INT/___</b> (Cooper Wavelinx, integral) <b>WLN/___</b> (Cooper Wavelinx, remote) QS <b>ENL/___</b> (Enlighted, remote) QS <b>ENL/INT/___</b> (Enlighted, integral) <b>VRF/___</b> (Lutron Vive, integral) <b>VDO/___</b> (Lutron Vive, integral+ occ/daylight sensor) <b>FCJS/___</b> (Lutron, remote) <b>FCJS/S/___</b> (Lutron, remote + occ/daylight sensor) <b>MLX/INT/___</b> (Molex POE, integral)	<b>MLX</b> (Molex POE, remote) <b>NLT/INT/___</b> (nLight wired, integral occ/daylight sensor) <b>NLT</b> (nLight wired remote connection) <b>NLTAIR/INT/___</b> (nLight AIR, integral) <b>NLTAIR</b> (nLight AIR, remote connection) <b>OS/PH/INT/___</b> (Acuity 0-10VDC integral occ/daylight sensor) <b>OS/INT/HV/___</b> (Legrand Wattstopper High Voltage integral occ/daylight sensor) QS <b>OS/PH/HV/___</b> (Hubbel WASP remote occ/daylight sensor)
QS <b>CP</b> Chicago Plenum Certification	

\*Quickship availability on occupancy and photocell/daylight sensors may vary. Contact ALW for more information.  
 \*Default quantity is 1 sensor per 8ft. type alternate quantity into product code above if desired. Sensor descriptions available on page 13.  
 \*Not all sensors are compatible with all drivers. See 'Driver', 'Sensor' and lamping charts for driver details and sensor compatibility.

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS".  
 NOTE: Maximum 800 ft. of QuickShip-eligible product per order.



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DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

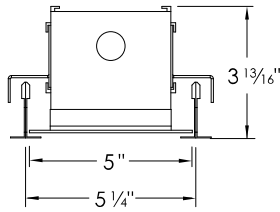
**Type:**  
**R42-6'**

MID23-74318

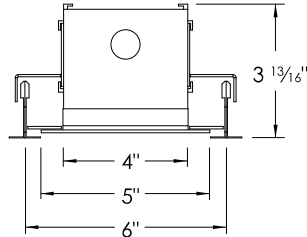


**MECHANICAL DIAGRAMS**

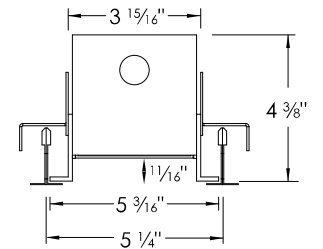
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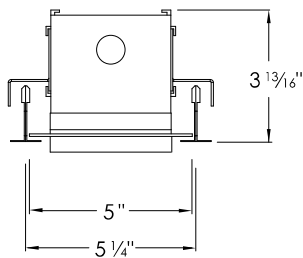
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TGRID**



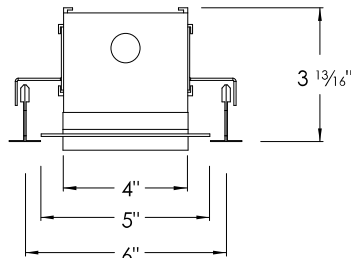
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ATZ/TGRID**



**LP3.5RTRL  
TGRID**

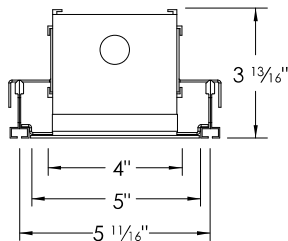


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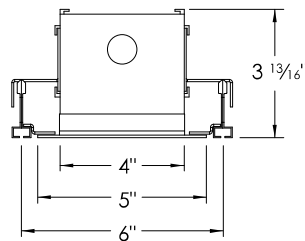


**LP3.5RTDL  
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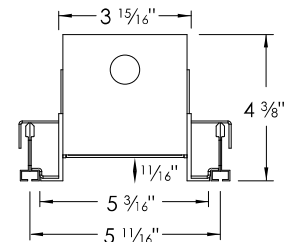
**SLOT**



**LP3.5RT  
SLOT**



**LP3.5RT  
ATZ/SLOT**



**LP3.5RTRL  
SLOT**

Rev 120622



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1%-EXT-N-N-N-TW-UNV-S-MOD

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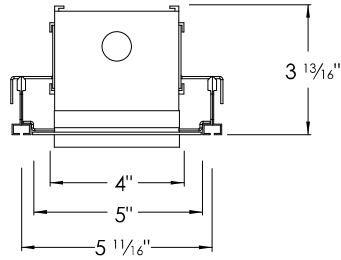
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**R42-6'**

MID23-74318

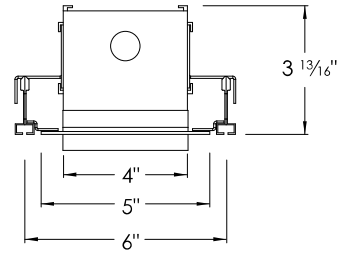


**MECHANICAL DIAGRAMS CONT'D**

**SLOT CONT'D**

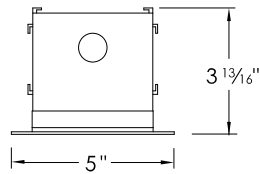


**LP3.5RTDL  
SLOT**



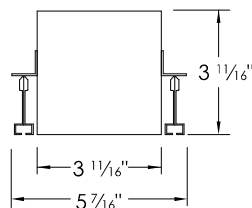
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ATZ/SLOT**

**TRIMMED**

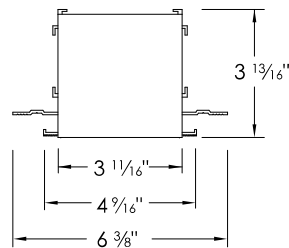


**LP3.5RT  
DRY**

**TRIMLESS**



**LP3.5RHF  
TGRID AND SLOT**



**LP3.5RMUD  
DRY**



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**Catalog Number:**  
 LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
 1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:**  
**R42-6'**

MID23-74318



**STANDARD FINISHES**

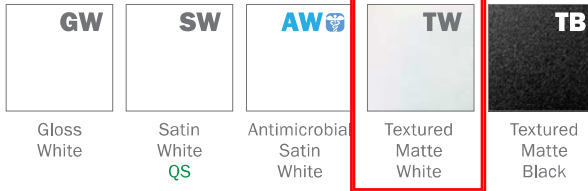
Standard finishes are available at no additional charge.

**ALUMINUM**



Anodized Aluminum  
 QS

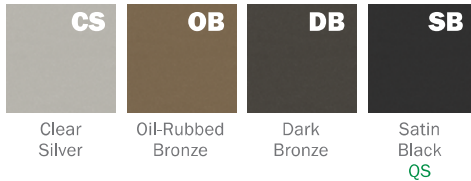
**BASIC POWDER COAT**



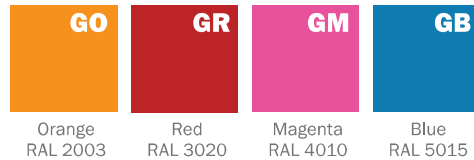
**METALLIC POWDER COAT**



**SATIN ANODIZED EFFECT POWDER COAT**



**GLOSS POWDER COAT (80-95% GLOSS)**



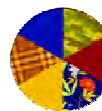
Contact ALW Quotes for sample paint finish swatches.

**SPECIAL ORDER FINISHES\***



**RAL CLASSIC COLORS (80-95% GLOSS): RAL\_ \_ \_ \_**

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003). See [www.alwusa.com/finishes](http://www.alwusa.com/finishes)



**CUSTOM COLOR MATCH: CCM\_ \_ \_ \_**

Custom powder coat color matching is available for a premium setup fee. Consult ALW for additional information.



**CATALOG COLORS: CAT\_ \_ \_ \_**

The complete range of powder coat colors from Tiger Drylac and TCI catalogs are available for a minimum setup fee. Consult ALW for a catalog color you would like to specify.

\*An individual setup fee will apply to each unique Special Order Finish per purchase order.  
 (ex: RAL 5023 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)

\*Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying)





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1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:**

**R42-6'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™

ALW is committed to providing the highest quality luminaires for a multitude of applications, with many versatile lighting solutions that contribute to satisfying the WELL Building Standard. Below is a quick guide to assist you in specifying appropriate product configurations for WELL features. Links to official WELL standards can be found [here](#).

### CIRCADIAN LIGHTING DESIGN FEATURE L03

The Circadian Lighting Design feature requires projects to provide users with appropriate exposure to light for maintaining circadian health and aligning the circadian rhythm with the day-night cycle.

To conform to these requirements, the project must meet one of the following 4 light level options (a, b, c, or d) below. These light levels are measured on the vertical plane at eye level of the occupant. The light levels are achieved at least between the hours of 9 a.m. and 1 p.m. and may be lowered after 8 p.m. at night.

DESIGNING WITH ELECTRIC LIGHT ONLY	DESIGNING WITH BOTH ELECTRIC LIGHT & DAYLIGHT	POINTS
a. At least 150 EML [136 melanopic equivalent daylight D65]	b. The project achieves at least 120 EML [109 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	1
c. At least 240 EML [218 melanopic equivalent daylight D65]	d. The project achieves at least 180 EML [163 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	3

Choose from a BIOS Static or BIOS Dynamic light engine to assist in a healthy, circadian lighting design. CCT, CRI, Luminous Flux Multipliers, and Melanopic Ratios are shown below for easy specification.

CIRCADIAN LIGHTING DESIGN (3PT MAX)	BIOS STATIC (BIOS)			BIOS DYNAMIC (BIOSD)			HOW TO SPECIFY
<b>CCT</b>	3000K	3500K	4000K	3000K	3500K	4000K	1. Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b> 2. Select the appropriate Lumen <b>OUTPUT</b> 3. Select the appropriate <b>CCT</b>
<b>CRI / R9</b>	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	
<b>LUMINOUS FLUX MULTIPLIER</b>	0.95	0.98	1.00	0.95	0.98	1.00	See BIOS LED Lamping and Performance Details at the back of this spec sheet for lumen outputs, COI index values, and other additional information.
<b>MELANOPIC RATIO (R)*</b>	0.70	0.80	0.90	0.74	0.83	0.95	

### GLARE CONTROL FEATURE L04

Glare is defined as excessive brightness of a light-source, excessive brightness-contrasts and excessive quantities of light. Glare has been associated with a host of health issues that range from visual discomfort and eye fatigue to headaches and migraines.

To conform to Glare Control requirements, each luminaire must meet one of the following options (a, b, or d) for regularly occupied spaces.

GLARE CONTROL CRITERIA (3PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. Indirect (100% emission above horizontal)	✓	-	-
b. Unified Glare Rating (UGR)*	✓	12.2 @ 16ft (HI Output) 10.94 @ 20ft (HI Output)	1. Select <b>ANY</b> output for <b>LED LAMPING</b> 2. Select <b>ANY</b> option for <b>BASE MODEL</b>
c. Shielding Angle	No	-	-
d. Max. Luminance (45°-90°) Max. Intensity (45°-90°)	✓	5924 cd/m <sup>2</sup> @ LOW Output 453.37 cd @ MED Output	1. Select an output of <b>LOW</b> for <b>LED LAMPING</b> 2. Select <b>ANY</b> option for <b>BASE MODEL</b>

\*Advertised UGR values are averages and were calculated in AGI32 using the following method: 1) A 5.4m x 3.6m room was created and fixtures were spaced 2m apart center-to-center. Calculations were performed at 16ft. and 20ft.

Rev 120622

**LP3.5R - SPECIFICATIONS  
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**ALWUSA.COM  
7 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

Type:

**R42-6'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™ (CONTINUED)

### ELECTRIC LIGHT QUALITY - PART 1: COLOR RENDERING QUALITY + PART 2: FLICKER FEATURE L07

Using light sources that have characteristics similar to daylight, including high color rendering and minimal flicker can improve comfort and well-being of users in a space and contribute to creating a healthy environment.

Part 1: Each luminaire must meet one of the following requirements (a or b) for regularly occupied spaces.

Part 2: Each luminaire must meet the IEEE 1789-2015 Standard Recommended Practice to manage flicker.

PART 1 - ENSURE COLOR RENDERING QUALITY (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. CRI > 90	✓	CRI = 93 - 95	• Select <b>90</b> (90CRI) for <b>LED LAMPING</b>
b. CRI > 80 with R9 > 50	✓	CRI = 83, R9 > 90	• Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b>
c. IES Rf ≥ 78, IES Rg ≥ 100, -1% ≤ IES Rcs, h1 ≤ 15%	No	-	-
PART 2 - MANAGE FLICKER (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
Meets IEEE 1789-2015 Standard Recommended Practice	✓	Modulation = 1% Flicker Frequency = 120 - 2000Hz	• Select <b>0/10V/S, 0/10V/1%, ECOSYS1, DALI</b> or <b>DMX</b> for <b>LED DRIVER</b>



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(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

Type:

**R42-6'**

MID23-74318

**PERFORMANCE DETAILS**

OUTPUT	DELIVERED LUMENS/FT	EFFICACY (LM/W)	WATTS/FT <sup>14</sup>	CRI OPTIONS	CCT OPTIONS
LOW <sup>15</sup>	635	Up to ~103	6.2	80 90	2700K (90CRI Only) 3000K 3500K 4000K 5000K
MIN <sup>15</sup>	870		8.4		
HI <sup>15</sup>	1100		10.7		
TUNE	WW: 416, CW: 450	Up to ~107	8.4	90+	
RGB <sup>16</sup>	125	N/A	5	N/A	
RGBW <sup>17</sup>	RGB: 122 RGB+W: 325 White Only: 203		5x	80 (White Chip)	2700K - 6500K

**MOD TO 900 LUMENS/FT**

<sup>14</sup>Lumens/Watt and Watts/ft have been calculated assuming a driver efficiency of 85%. Depending on field conditions, actual measured values may fluctuate by 5-8%.

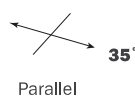
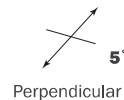
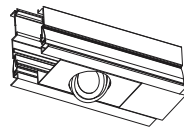
<sup>15</sup>Performance calculations are based on LM-79 test of HI output at 80 CRI and 4000K. LOW and MED calculations are extrapolated values.

<sup>16</sup>Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue).

<sup>17</sup>Performance calculations are derived from the following LM-79 tests: 1) RGB LEDs illuminated, 2) RGB+W LEDs illuminated, 3) White LED only illuminated.

**PERFORMANCE DETAILS - ACCENT/DOWNLIGHT LAMPING**

SPOT	DELIVERED LUMENS (LM)	WATTS (W)	EFFICACY (LM/W)	CRI	CCT OPTIONS	BEAM SPREAD OPTIONS (DEGREES)
DL800	800	5.1	157	80 90	2700K 3000K 3500K 4000K	25 40
DL1000	1000	6.7	150			
DL1500	1500	10.5	143			

**AIMING**

Rev 120622

**LP3.5R - SPECIFICATIONS**  
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**ALWUSA.COM**  
9 of 17



**Job Name:**  
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**Catalog Number:**  
LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

Type:

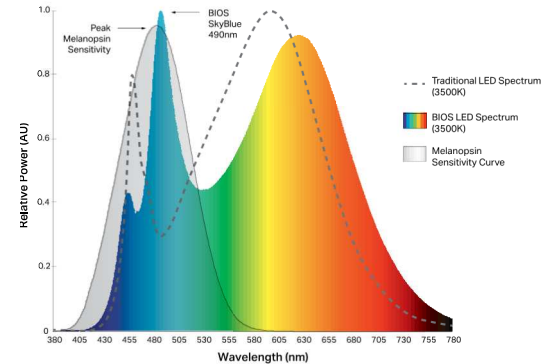
**R42-6'**

MID23-74318

**BIOS OVERVIEW**

BIOS SkyBlue® technology is designed to provide the specific circadian stimulus required to improve overall sleep by **featuring a distinct peak in the 'skyblue' spectral power at 490nm**. Unlike traditional white LEDs, BIOS SkyBlue® makes it possible to achieve **high EML (Equivalent Melanopic Lux) and Melanopic/Photopic ratios** without harsh CCTs or high, glare-inducing light levels.

BIOS light engines are available in **Static** or **Dynamic** options for use with a variety of applications. In Static light engines, the SkyBlue 490nm signal always remains on while the fixture is powered. Dynamic options include a dynamic board and Bio-Dimmer module to allow the user to dim-out the SkyBlue 490nm signal during night time hours.



	<b>BIOS STATIC (BIOS)</b>	<b>BIOS DYNAMIC + BIO-DIMMING™ (BIOSD)</b>
<b>DESCRIPTION</b>	490nm SkyBlue light signal always remains on while the fixture is powered.	Dynamic light engine with Bio-Dimming add the ability to fine-tune and dim-out the 490nm SkyBlue signal during night time hours or as desired.
<b>TYPICAL APPLICATIONS</b>	Environments typically occupied only during daylight hours (6am - 8pm) such as offices and schools.	Environments occupied for a 24-hour period such as hospitals, security facilities, behavioral health facilities, factories, etc.
<b>CONTROLS &amp; DIMMING*</b>	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS melanopic ratio remains constant as you dim down the light intensity.	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS SkyBlue® LED can be dimmed-out using a standard control/dimmer.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.

**BIOS LED LAMPING DETAILS (STATIC OR DYNAMIC)**

<b>OUTPUT</b>	<b>DELIVERED LUMENS (LM/FT)</b>	<b>WATTS (W/FT)</b>	<b>EFFICACY (LM/W)</b>	<b>CRI OPTIONS</b>
<b>LOW<sup>18</sup></b>	635	6.2	Up to ~103	82+
<b>MED<sup>18</sup></b>	870	8.4		
<b>HI<sup>18</sup></b>	1100	10.7		

**BIOS LED PERFORMANCE DETAILS**

<b>CCT</b>	<b>CRI (Ra)</b> <i>Static BIOS Dynamic BIOS</i>	<b>CRI (R9)</b> <i>Static BIOS Dynamic BIOS</i>	<b>DAYTIME M/P RATIO<sup>19</sup></b> <i>Static BIOS Dynamic BIOS</i>	<b>NIGHTTIME M/P RATIO<sup>20</sup></b> <i>Static BIOS Dynamic BIOS</i>	<b>COI<sup>21</sup></b> <i>Static BIOS Dynamic BIOS</i>
<b>3000K</b>	82	94	0.70	0.70	3.0
	83	90	0.73	0.45	3.3
<b>3500K</b>	83	91	0.80	0.80	3.1
	83	90	0.84	0.50	3.1
<b>4000K</b>	83	91	0.90	0.90	3.1
	83	90	0.95	0.55	3.1

<sup>18</sup>Performance calculations are based on LM-79 test of BIOS 4000K, HI output. LOW and MED calculations are extrapolated values.

<sup>19</sup>Melanopic to photopic (M/P) ratios are used to help calculate equivalent melanopic lux (EML) values which is the metric used for circadian lighting in the WELL™ Building Standard.

<sup>20</sup>Static LED nighttime M/P ratios remain the same as daytime M/P ratios as BIOS SkyBlue® always remains at full output.

<sup>21</sup>BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.

Rev 120622

**LP3.5R - SPECIFICATIONS**  
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**10 of 17**



**Job Name:**  
DUTCHESS STADIUM  
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**Catalog Number:**  
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Notes:

**Type:**  
**R42-6'**

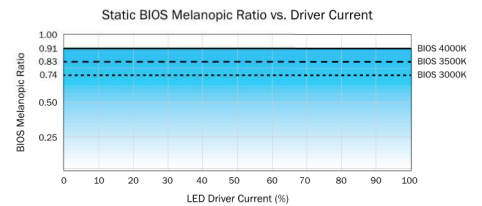
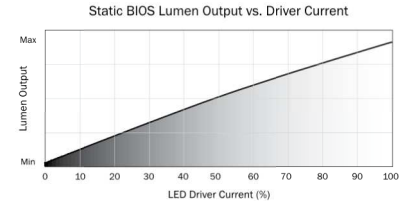
MID23-74318



**BIOS STATIC DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	LIGHT OUTPUT* (BIOS SKYBLUE® + WHITE LED)		BIOS + White LED Intensity Dimming
100%* (Full On)	100%		
99% - 51%	Linear Dimming 99% - 51%		
50%	Linear Dimming 50%		
49% - 0%	Linear Dimming 49% - 0%		

BIOS SkyBlue® LED and White LED dim with a 1-to-1 ratio.



\*While melanopic ratio remains constant, dimming/reducing light output will have an overall impact on Equivalent Melanopic Lux (EML). That is because  $EML = \text{Vertical Lux} \times \text{melanopic ratio}$ . Therefore, if you reduce light levels by dimming the LEDs, you will reduce your effective EML, even when the melanopic ratio stays constant.

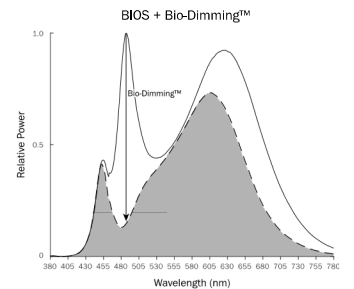
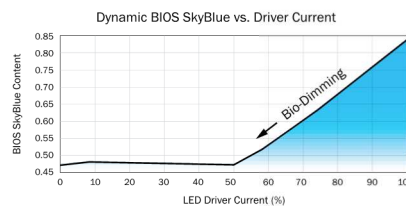
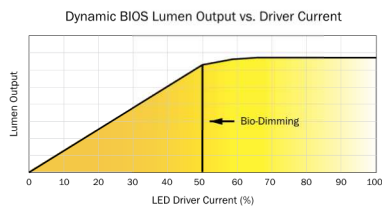
**BIOS DYNAMIC + BIO-DIMMING™ DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT	
100%* (Full On)	100%	100%	100%	Bio-Dimming
99% - 51%	100% - 0%	100%	100% - 90%	
50%	NO BIOS	100%	~90%	White LED Intensity Dimming
49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	

BIOS SkyBlue® maintained for maximum circadian impact.  
Light output remains relatively constant.

BIOS SkyBlue® removed to provide minimal circadian impact.  
White LED output dims linearly.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.



Rev 120622



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

Type:

**R42-6'**

MID23-74318

**DRIVERS**

PRODUCT CODE	DESCRIPTION
<b>N</b>	None. Choose when indirect lighting is not desired.
<b>V00</b>	0-10V dimming down to 0% (dim to off).
<b>V01</b>	0-10V dimming down to 1%.
<b>V05</b>	0-10V dimming down to 5% (Down to 10% for TUNE lamping).
<b>P01</b>	ELV/TRIAC Phase dimming down to 1%
<b>LDE1</b>	(LDE1) Lutron Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
<b>LTEA</b>	(LTEA) Lutron Hi-Lume 1% 2-wire TRIAC dimming (120V forward-phase only).
<b>TSERIES</b>	Lutron T-Series Tunable White Class 2 LED Driver (For use with Lutron Quantum Control Systems)
<b>ELDV0</b>	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)
<b>ELDDW</b>	eldoLED 0/10V dim-to-warm dimming down to 0% (specify with TUNE LED lamping. Driver will be programmed with LightShape dim-to-warm setting)
<b>DALI</b>	DALI flicker-free dimming down to 0%.
<b>DMX</b>	DMX flicker-free dimming down to 0%.
<b>POEM</b>	Molex CoreSync PoE LED Driver. Contact ALW to assist with your project.
<b>POEI</b>	IGOR PoE LED Driver. Contact ALW to assist with your project.
<b>POEN</b>	NuLEDS PoE LED Driver. Contact ALW to assist with your project.
<b>POE</b>	Specify a PoE driver of your choice. Fixture comes with low voltage leads and no LED driver. Contact ALW to assist with your project

\*Most drivers can be programmed to specific dimming levels if desired. Contact ALW for specific dimming level requests. ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

DRIVER/LED LAMPING COMPATIBILITY							
	STD	STD/BIOS	TUNE	RGB	RGB(W)	CA TITLE 24 JA8/JA10 <sup>22</sup>	IEEE P1789 & HD TV STUDIO <sup>23</sup>
<b>V00</b>	●	●	●			●	
<b>V01</b>	●	●	●			●	
<b>V05</b>	●	●	●			●	
<b>P01</b>	●	●				●	
<b>LDE1</b>	●	●				●	●
<b>LTEA</b>	●	●				●	
<b>TSERIES</b>			●			●	●
<b>ELDV0</b>	●	●	PER REQUEST			●	●
<b>ELDDW</b>			●				
<b>DALI</b>	●	●	●			●	
<b>DMX</b>	●		●		●	PER REQUEST	PER REQUEST
<b>POEM</b>			PER REQUEST			●	●
<b>POEI</b>			PER REQUEST			●	●
<b>POEN</b>			PER REQUEST			●	●

● - Indicates compatibility

\* Standard lamping (STD) - LOW/MED/HI

<sup>22</sup> Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to California Title 24 JA8 and JA10 Appendices

<sup>23</sup> The following drivers conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.

Rev 120622

**LP3.5R - SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
**12 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD  
**Notes:**

**Type:**  
**R42-6'**

MID23-74318

**SENSORS**

	PRODUCT CODE	DESCRIPTION	Location
	<b>N</b>	None. Choose when sensors are not desired.	-
<b>COOPER WAVELINX</b>	<b>WLNX/INT</b>	Wavelinx Wireless integral occ/daylight sensor (WaveLinX part: OEM-WAA)	Integral
	<b>WLNX</b>	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Remote
<b>ENLIGHTED™</b>	<b>ENLGH/INT</b>	Enlighted integral connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5E-CL)	Integral
	<b>ENLGH</b>	Enlighted® remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote
<b>LUTRON VIVE</b>	<b>VRF</b>	Lutron® Vive integral RF wireless fixture control (Lutron Part: DFCSJ-OEM-RF)	Integral
	<b>VDO</b>	Lutron® Vive integral RF wireless fixture control + daylight/occ sensor (Lutron Part: DFCSJ-OEM-OCC)	Integral
	<b>FCJS</b>	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote
	<b>FCJS/S</b>	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	Molex CoreSync PoE Integral Fixture-Mounted Sensor R - occ/daylight/temperature/humidity (Molex Part: 182091-1000)	Integral
	<b>MLX</b>	Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from	Remote
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	Fixture is built with nLight Wired integral components specified by agency. Contact ALW to review project details.	Integral
	<b>NLT</b>	Fixture is built to connect to nLight Wired remote components specified by agency. Contact ALW to review project details.	Remote
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	Fixture is built with nLight Air (Wireless) components specified by agency. Contact ALW to review project details.	Integral
	<b>NLTAIR</b>	Fixture is built to connect to nLight Air (Wireless) remote components specified by agency. Contact ALW to review project details.	Remote
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	Acuity 0-10VDC Integral occ/daylight sensor (Acuity Part: MSD 7 ADC WH) Automated Dimming Functionality Only. Manual Dimming not available. Customer to set sensor functionality in the field. Lowest dim level depends on driver.	Integral
	<b>OS/INT/HV</b>	Legrand Wattstopper <b>High Voltage</b> Integral occ/daylight on/off sensor (Part: FS-355) On/Off or Manual Dimming Functionality Only (based on occupancy and daylight). Connect fixture 0/10V wires to wall dimmer in the field. No Automated Dimming available.	Integral
	<b>OS/PH/HV</b>	Hubbell WASP <b>High Voltage</b> 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDSMUNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Remote

\*All connected lighting sensors/systems must be programmed in the field by an electrical commissioner familiar with the system. Refer to the 'Sensor Compatibility' and 'Driver/Sensor Compatibility' charts to specify compatible sensors, LED lamping, and LED driver systems.

Rev 120622

**LP3.5R – SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
**13 of 17**





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

Type:

**R42-6'**

MID23-74318

**SENSORS CONT'D**

SENSOR COMPATIBILITY								
PRODUCT CODE		SENSOR TYPE	MAX MT HT	CA TITLE 24	STD*	TUNE	RGB	RGB(W)
COOPER WAVELINX	WLNx/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	WLNx		15 ft	●	●			
ENLIGHTED™	ENLGHt/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●	CUSTOM REQUEST		
	ENLGHt	OCCUPANCY/PHOTOCELL	40 ft	●	●	CUSTOM REQUEST		
LUTRON VIVE	VRF	WIRELESS CONTROL	12 ft	●	●			
	VDO	OCCUPANCY/PHOTOCELL	12 ft	●	●			
	FCJS	WIRELESS CONTROL	12 ft	●	●			
	FCJS/S/	OCCUPANCY/PHOTOCELL	12 ft	●	●			
MOLEX POE CORESYNC	MLX/INT	OCCUPANCY/PHOTOCELL TEMPERATURE/HUMIDITY	16 ft	●	●			
	MLX		16 ft	●	●	●	CUSTOM REQUEST	CUSTOM REQUEST
NLIGHT WIRED®	NLT/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	NLT		15 ft	●	●			
NLIGHT WIRELESS®	NLTAIR/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	NLTAIR		15 ft (average)	●	●			
VALUE SENSORS	OS/PH/INT	OCCUPANCY/PHOTOCELL	15 ft		●			
	OS/INT/HV	OCCUPANCY/PHOTOCELL	15 ft	●	●	■	■	■
	OS/PH/HV	OCCUPANCY/PHOTOCELL	45 ft	●	●	■	■	■

● - Indicates compatibility ■ - On/off sensor functionality only

\*Standard lamping (STD) - LOW/MED/HI

Rev 120622

**LP3.5R - SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
**14 of 17**



**Job Name:**  
 DUTCHESS STADIUM  
 Distributor: LS FIELDTECH, LLC.  
 (ROCHESTER)

**Catalog Number:**  
 LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
 1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:**  
**R42-6'**

MID23-74318



**SENSORS (CONT'D)**

DRIVER/SENSOR COMPATIBILITY									
	WLNx/INT	WLNx	ENLGHt/INT	ENLGHt	VRF	VDO	FCJS	FCJS/S/	MLX/INT
V00	●	●	●	●			●	●	
V01	●	●	●	●			●	●	
V05	●	●	●	●			●	●	
P01									
LDE1					●	●	●	●	
LTEA									
TSERIES									
ELDVO									
ELDDW									
DALI					●	●			
DMX									
POE/MOLEX									●
POE/IGOR	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/NULEDS	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/READY	Sensor types will depend on the PoE system configuration. Contact ALW for details.								

- - Indicates compatibility
- ▲ - Fixture can have automated dimming via sensor OR on/off functionality and manual dimming
- - On/off sensor functionality only

DRIVER/SENSOR COMPATIBILITY CONT'D									
	MLX	NLT/INT	NLT	NLTAIR/INT	NLTAIR	OS/PH/INT	OS/INT/HV	OS/PH/HV	NO SENSOR
V00						●	■	▲	●
V01						●	■	▲	●
V05						●	■	▲	●
P01							■	■	●
LDE1									●
LTEA							■	■	●
TSERIES							■	■	●
ELDVO		●	●	●	●	●	■	▲	●
ELDDW							■	■	●
DALI							■	■	●
DMX							■	■	●
POE/MOLEX	●								●
POE/IGOR	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/NULEDS	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/READY	Sensor types will depend on the PoE system configuration. Contact ALW for details.								

Rev 120622

**LP3.5R - SPECIFICATIONS RECESSED**

**ALWUSA.COM**  
 15 of 17



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:****R42-6'**

MID23-74318

**PHOTOMETRICS**

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC) <sup>24</sup> (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
EXT		6 ft	22.8	1.24 1.24	784.4	1100
		8 ft	12.3			
		10 ft	7.8			
		12 ft	5.4			
		14 ft	4			
		16 ft	3.1			

\*Photometric calculations based on HI 4000K 80 CRI fixture combination. Actual results may vary in the field.

For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#).

<sup>24</sup> criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface.

Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).



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LP3.5RT-TGRID-S6-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:**

**R42-6'**

MID23-74318



## ADDITIONAL OPTIONS & SPECIFICATIONS

### LED PERFORMANCE

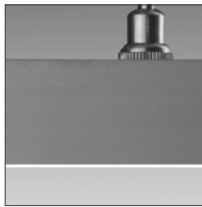
> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

### HOUSING

100% recyclable, extruded architectural grade 6061 aluminum with a 0.08" minimum wall thickness.

### LENS OPTIONS

Extruded, twin-layered, high-impact acrylic. EXT is white and extra diffuse with minimal- to no-source visibility.



FLUSH LENS – EXT/F

### SAFETY & REGULATORY

Fixtures specified with 90CRI, 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to **California Title 24 JA8 and JA10** Appendices. EidoLED drivers can conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'.

Contact [ALW customer support](#) today and we can help you with your project requirements..

ETL Listed (U.S. & Canada). Suitable for dry or damp locations. Conforms to UL std. 1598, Luminaires. Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2.

### WARRANTY

Limited 11-year warranty. Details: [alwusa.com/warranty](http://alwusa.com/warranty)

### OPERATING TEMPERATURE

Luminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from -4 °F to 122 °F (-20 °C to 50 °C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

### INTEGRAL DOWNLIGHTS

Optional, aimable accent downlights deliver 800-1500 lumens with a beam spread of 25° or 40°. Hex cell (HEX) and snoot (SNT) accessories are also available.



### CONTROLS, SENSORS, & LED DRIVER

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, nLight, Cooper Wavelinx, eldoLED, Molex PoE, NuLEDS PoE, Igor PoE, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact [ALW customer support](#) today so we can review your requirements.



### WEIGHT

Approximately 3 lbs. per linear foot (not including downlight option). Weight may vary depending on mounting, downlight, and additional options selected.

### WOOD VENEER

Most ALW fixture configurations are available with [real wood veneer](#) as a custom request. Contact [ALW customer support](#) so we can help you with your custom wood veneer request.

### CHICAGO PLENUM CERTIFICATION

Recessed fixtures for this product family are available to meet Chicago Plenum certification in continuous lengths. For Chicago Plenum options please contact ALW.

Rev 120622

**LP3.5R – SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
**17 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:**  
**R42-10'**

MID23-74318



# LIGHTPLANE 3.5R

LP3.5R | RECESSED



## SPECIFICATIONS

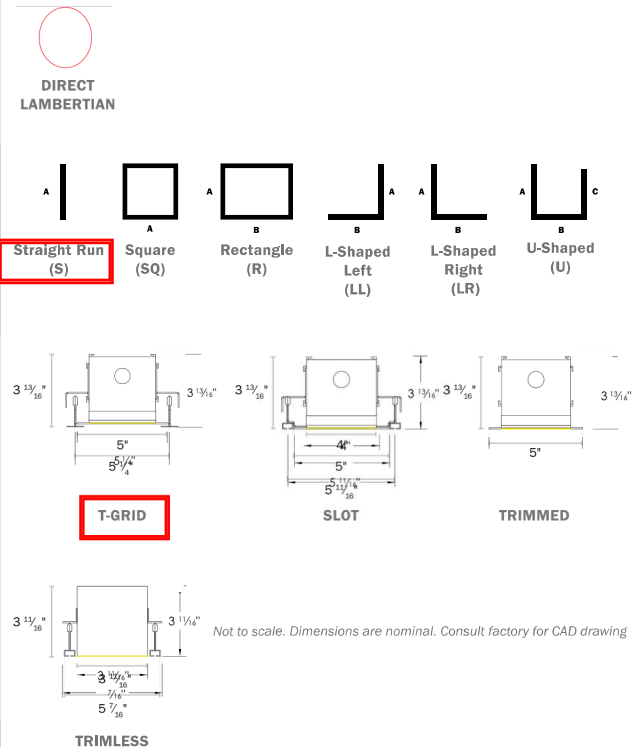
<b>PROFILE</b>	3.5" Aperture, 3 11/16" height
<b>SIZES</b>	Configurable linear sections and shapes. 2ft minimum length.
<b>LED OUTPUT</b>	125lm/ft - 1,100lm/ft. Accent downlights available (800/1000/1500lm Output Options).
<b>CCT/CRI</b>	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W
<b>DIMMING/ DRIVER</b>	Integral Driver: 0-10V, DALI, DMX, eidoLED, Lutron®, PoE (Molex, Igor, NuLEDS). Dimming to 0% for select models.
<b>POWER</b>	6.2W - 10.7W per ft
<b>INPUT</b>	120VAC, 277VAC, or 347VAC
<b>OPTICS</b>	Lambertian distribution
<b>FINISHES</b>	18 standard finishes at no extra charge. Custom finishes available.
<b>MATERIAL</b>	6061 Extruded Aluminum
<b>ENVIRONMENT</b>	Dry or damp locations

**WELL/UGR**

See pages 7-8 for recommended options that contribute to meeting the WELL Building Standard™. UGR values available under 'Glare Control' on page 7.

\*Safety and Performance information available on last page. Output and other specifications available on pages 9-10.

## DISTRIBUTIONS & PROFILES



Rev 120622

**LP3.5R - SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
1 of 17



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

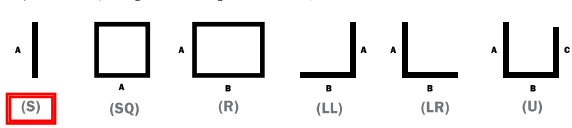
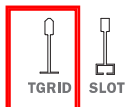
**Type:**  
**R42-10'**  
MID23-74318



**PRODUCT SPECIFICATION SHEET**



1	2	3	4a	4b	4c	5	6	7a	7b	7c	7d	8	9	10	11	12	
13a	13b	13c	<b>EXAMPLE: LP3.5RT - DRY - S5 - MED/90/3500 - LTEA - EXT - DL1000/80/3500/25 - HEX - LTEA - 1 - SW - UNV</b>														
			- EMB/1 - NLT - CP														
13a	13b	13c	1	2	3	4	5	6	7	8	9	10	11	12			

<b>1. BASE MODEL (CHOOSE 1)</b>	<b>2. CEILING TYPE* (CHOOSE 1)</b>	<b>3. SHAPE/LENGTH (CHOOSE 1 &amp; ENTER LENGTH IN FEET) - FOR CUSTOM ANGLES, CONTACT ALW</b>
QS <b>LP3.5RT</b> 3.5" Trimmed w/Flush Lens QS <b>LP3.5RTDL*</b> 3.5" Trimmed w/Dropped Reveal lens QS <b>LP3.5RTRL</b> 3.5" Trimmed w/Regressed Lens QS <b>LP3.5RMUD</b> 3.5" Mud-in w/Flush Lens QS <b>LP3.5RHF</b> 3.5" Hidden Flange w/Flush Lens *Not compatible with accent downlight.	QS <b>DRY*</b> Drywall QS <b>TGRID*</b> T-Grid QS <b>SLOT*</b> Slot QS <b>ATZ/TGRID<sup>1,5</sup></b> Armstrong® Techzone T-Grid QS <b>ATZ/SLOT<sup>1,5</sup></b> Armstrong® Techzone Slot *Additional ceiling types may be available, consult ALW. *Not available with LP3.5RHF base model. *Only available with LP3.5RT and LP3.5RDL base models. *All product and company names are trademarks or registered trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them.	QS <b>s10'</b> Individual/Straight Run Section (enter length in product code above, ex. S5) QS <b>SQ</b> Square Configuration (enter side length A, ex: SQ5) QS <b>R</b> Rectangular Configuration (enter side lengths A and B, ex. R5-7) QS <b>LL_</b> L-Shaped, Left Configuration (enter side lengths A and B, ex. LL5-7) QS <b>LR_</b> L-Shaped, Right Configuration (enter side lengths A and B, ex. LR5-7) QS <b>U_</b> U-Shaped Configuration (enter side lengths A, B, and C, ex. U5-7-4) *Lengths are nominal and may vary based on lamping and other specification selections. Consult ALW when exact lengths are required. *Shape orientation (Looking from the Ceiling down to the floor)



**MOD = 900 lm/ft**

<b>4. LED LAMPING* (CHOOSE 1 FOR EACH)</b>	<b>5. DRIVER* (CHOOSE 1)</b>	<b>6. LENS*</b>	<b>7. ACCENT - DOWNLIGHT* (CHOOSE 1 FOR EACH)</b>
A. OUTPUT QS <b>LOW</b> (635 lm/ft) QS <b>MED</b> (870 lm/ft) QS <b>HI</b> (1100 lm/ft) QS <b>RGB</b> (125 lm/ft) QS <b>TUNE</b> (2700K-6500K) 90 CRI, 416/450 lm/ft QS <b>RGBW</b> (3500K, White, 80 CRI, 325 lm/ft) QS <b>CSTM</b> _____10(Enter lumens in product code above. Ex. 0100=100lm/ft) *For delivered lumens and watts, see 'Performance Details' *CRI/CCT options not applicable for TUNE, RGB, or RGBW lamping *Choose when TUNE, RGB, or RGBW is desired output *Static BIOS SkyBlue® 490nm LED is always on, Dynamic BIOS SkyBlue® 490nm LED can be tuned out with most LED driver and dimmer combinations. See pages 10-11 for details. *90 CRI only. 2700K is not available in BIOS options *10 Consult ALW for custom lumen packages.	QS <b>V00</b> (0-10V, dim to 0%) QS <b>V01</b> (0-10V, dim to 1%) QS <b>V05</b> (0-10V, dim to 5%) QS <b>PO1</b> (Phase, dim to 1%) QS <b>LDE1</b> (Lutron ECOSYS1, 0-10V, dim to 1%) QS <b>LTEA</b> (Lutron HL-Lume, Phase dim, 2-wire to 1%) QS <b>TSERIES</b> (Lutron Tuneable White) QS <b>ELDVO</b> (eldoLED, 0-10V, dim to 0%) QS <b>ELDDW</b> (eldoLED dim to warm) QS <b>DALI</b> (DALI, dim to 0%) QS <b>DMX</b> (DMX, dim to 0%) QS <b>POEM</b> (POE Molex) QS <b>POEI</b> (POE IGOR) QS <b>POEN</b> (POE Nuleds) QS <b>POE<sup>13</sup></b> (POE Ready) *See 'Driver', 'Sensor' and lamping charts for driver details and sensor compatibility. *13 Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice.	QS <b>EXT</b> Diffuse lens *Looking for an asymmetric lens? Refer to ALW's SP2.5R or SP4R fixtures.	QS <b>N</b> None. Select when Accent Downlight Lamping not desired. A. SPOT QS <b>DL800</b> (800 lm/ft) <b>80</b> <b>2700K</b> QS <b>DL1000</b> (1000 lm/ft) <b>90</b> <b>3000K</b> QS <b>DL1500</b> (1500 lm/ft) <b>3500K</b> <b>4000K</b> B. CRI C. CCT D. BEAM SPREAD QS <b>25</b> QS <b>40</b> *Downlights are not available in BIOS options as the COB is too large to fit in downlight housing.

<b>8. ACCESSORY-ACCENT DOWNLIGHT (CHOOSE 1)</b>	<b>9. DRIVER - ACCENT DOWNLIGHT (CHOOSE 1)</b>	<b>10. QUANTITY - ACCENT DOWNLIGHT (CHOOSE 1)</b>	<b>11. FINISH (CHOOSE 1)</b>
QS <b>N</b> None QS <b>HEX</b> Hexcell louver QS <b>SNT</b> Snoot QS <b>HEXSNT</b> Both Hexcell louver and Snoot  	QS <b>N</b> None. Select when Accent Downlight Lamping not desired. _____12 Manually type code for desired driver in product code above. *12 Accent downlights not available with TSERIES and ELDO/DW driver types.	QS <b>N</b> None _____ Type total quantity of downlights per run length in product code on previous page. (Maximum 1x for 2-3ft., 2x for 4-5ft, and 3x for 6-8ft.)	<b>STANDARD FINISHES</b> QS <b>AL</b> Anodized Aluminum QS <b>SW</b> Satin White QS <b>SB</b> Satin Black _____ See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: 0B = Oil-Rubbed Bronze) <b>SPECIAL ORDER FINISHES*</b> QS <b>RAL</b> Specify RAL Classic Color (Ex: RAL 3003) - QS <b>CAT</b> Specify Catalog Colors QS <b>CCM</b> Custom Color Match *Manually type in the finish code for special order finishes.

**TW = TEXTURED WHITE**

CONTINUES ON NEXT PAGE →

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS".  
NOTE: Maximum 800 ft. of QuickShip-eligible product per order.



**Job Name:**  
 DUTCHESS STADIUM  
 Distributor: LS FIELDTECH, LLC.  
 (ROCHESTER)

**Catalog Number:**  
 LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
 1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:**  
**R42-10'**

MID23-74318



**PRODUCT SPECIFICATION SHEET CONT'D**

**12. VOLTAGE (CHOOSE 1)**      **13a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)**

- |   |  |
|---|--|
| <p>QS <b>UNV</b> Universal Voltage (120VAC-277VAC)<br/> <b>347</b> 347 Volt (Driver options may be limited. Not available with EMB)</p> | <p>QS <b>EMB/___</b><sup>13</sup> Emergency Battery (indicate QTY – each battery powers 4ft. section @ 1492lm. Not available in 347 V)</p> <p>QS <b>EMC/___</b><sup>13</sup> Emergency Circuit ( indicate QTY of 4ft sections to be illuminated by emergency circuit)</p> <p><sup>13</sup>For fixtures under 4ft in length, entire fixture will be illuminated with a proportional lumen output. Consult ALW for more details.</p> |
|---|--|

**13b. SENSOR OPTIONS\* (OPTIONAL, CHOOSE 1)**      **13c. ADDITIONAL OPTIONS\* (OPTIONAL)**

- |   |   |  |
|---|---|--|
| <p><b>N</b> (None)</p> <p><b>WLN/INT/___</b> (Cooper Wavelinx, integral)</p> <p><b>WLN/___</b> (Cooper Wavelinx, remote)</p> <p>QS <b>ENL/___</b> (Enlighted, remote)</p> <p>QS <b>ENL/INT/___</b> (Enlighted, integral)</p> <p><b>VRF/___</b> (Lutron Vive, integral)</p> <p><b>VDO/___</b> (Lutron Vive, integral+ occ/daylight sensor)</p> <p><b>FCJS/___</b> (Lutron, remote)</p> <p><b>FCJS/S/___</b> (Lutron, remote + occ/daylight sensor)</p> <p><b>MLX/INT/___</b> (Molex POE, integral)</p> | <p><b>MLX</b> (Molex POE, remote)</p> <p><b>NLT/INT/___</b> (nLight wired, integral occ/daylight sensor)</p> <p><b>NLT</b> (nLight wired remote connection)</p> <p><b>NLTAIR/INT/___</b> (nLight AIR, integral)</p> <p><b>NLTAIR</b> (nLight AIR, remote connection)</p> <p><b>OS/PH/INT/___</b> (Acuity 0-10VDC integral occ/daylight sensor)</p> <p><b>OS/INT/HV/___</b> (Legrand Wattstopper High Voltage integral occ/daylight sensor)</p> <p>QS <b>OS/PH/HV/___</b> (Hubbel WASP remote occ/daylight sensor)</p> | <p>QS <b>CP</b> Chicago Plenum Certification</p> |
|---|---|--|

\*Quickship availability on occupancy and photocell/daylight sensors may vary. Contact ALW for more information.  
 \*Default quantity is 1 sensor per 8ft, type alternate quantity into product code above if desired. Sensor descriptions available on page 13.  
 \*Not all sensors are compatible with all drivers. See 'Driver', 'Sensor' and lamping charts for driver details and sensor compatibility.

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS".  
 NOTE: Maximum 800 ft. of QuickShip-eligible product per order.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

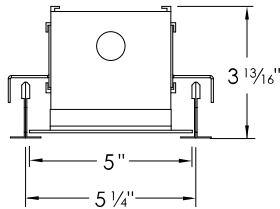
**Type:**  
**R42-10'**

MID23-74318

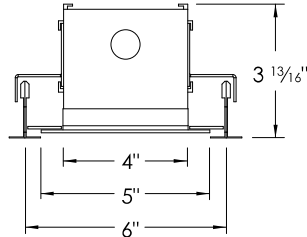


**MECHANICAL DIAGRAMS**

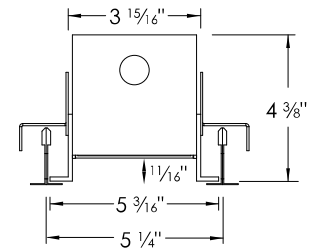
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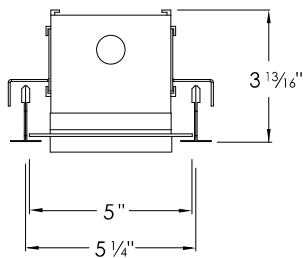
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TGRID**



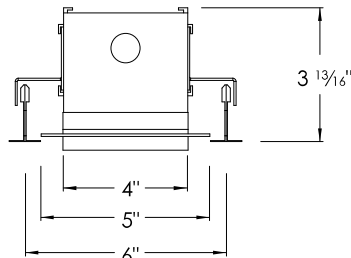
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ATZ/TGRID**



**LP3.5RTRL  
TGRID**

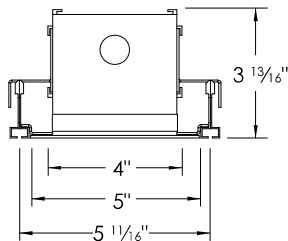


**LP3.5RTDL  
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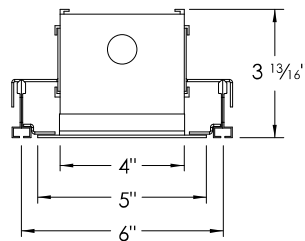


**LP3.5RTDL  
ATZ/TGRID**

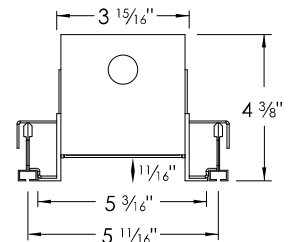
**SLOT**



**LP3.5RT  
SLOT**



**LP3.5RT  
ATZ/SLOT**



**LP3.5RTRL  
SLOT**

Rev 120622

**LP3.5R - SPECIFICATIONS  
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**ALWUSA.COM  
4 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

**Type:**  
**R42-10'**

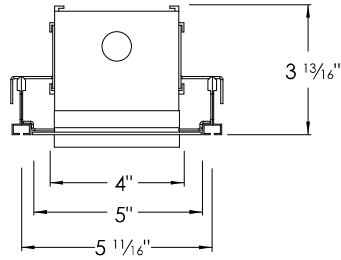
Notes:

MID23-74318

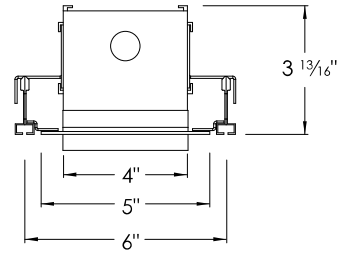


**MECHANICAL DIAGRAMS CONT'D**

**SLOT CONT'D**

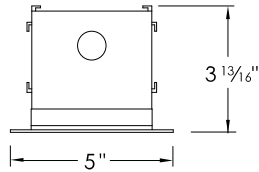


**LP3.5RTDL  
SLOT**



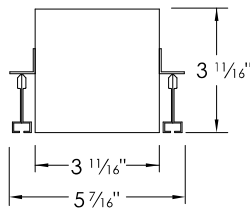
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ATZ/SLOT**

**TRIMMED**

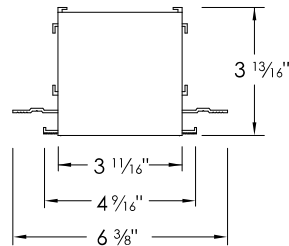


**LP3.5RT  
DRY**

**TRIMLESS**



**LP3.5RHF  
TGRID AND SLOT**



**LP3.5RMUD  
DRY**



**Job Name:**  
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**Catalog Number:**  
LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:**  
**R42-10'**

MID23-74318



**STANDARD FINISHES**

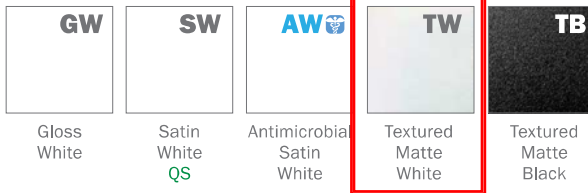
Standard finishes are available at no additional charge.

**ALUMINUM**



Anodized Aluminum  
QS

**BASIC POWDER COAT**



Gloss White

Satin White  
QS

Antimicrobial Satin White

Textured Matte White

Textured Matte Black

**METALLIC POWDER COAT**



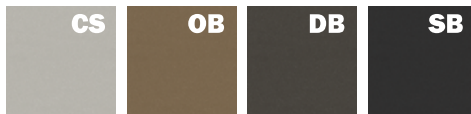
Silver Gray

Charcoal Gray

Copper

Brass

**SATIN ANODIZED EFFECT POWDER COAT**



Clear Silver

Oil-Rubbed Bronze

Dark Bronze

Satin Black  
QS

**GLOSS POWDER COAT (80-95% GLOSS)**



Orange  
RAL 2003

Red  
RAL 3020

Magenta  
RAL 4010

Blue  
RAL 5015

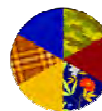
Contact ALW Quotes for sample paint finish swatches.

**SPECIAL ORDER FINISHES\***



**RAL CLASSIC COLORS (80-95% GLOSS): RAL\_ \_ \_ \_**

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003). See [www.alwusa.com/finishes](http://www.alwusa.com/finishes)



**CUSTOM COLOR MATCH: CCM\_ \_ \_ \_**

Custom powder coat color matching is available for a premium setup fee. Consult ALW for additional information.



**CATALOG COLORS: CAT\_ \_ \_ \_**

The complete range of powder coat colors from Tiger Drylac and TCI catalogs are available for a minimum setup fee. Consult ALW for a catalog color you would like to specify.

\*An individual setup fee will apply to each unique Special Order Finish per purchase order.  
(ex: RAL 5023 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)

\*Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying)



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:**

**R42-10'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™

ALW is committed to providing the highest quality luminaires for a multitude of applications, with many versatile lighting solutions that contribute to satisfying the WELL Building Standard. Below is a quick guide to assist you in specifying appropriate product configurations for WELL features. Links to official WELL standards can be found [here](#).

### CIRCADIAN LIGHTING DESIGN FEATURE L03

The Circadian Lighting Design feature requires projects to provide users with appropriate exposure to light for maintaining circadian health and aligning the circadian rhythm with the day-night cycle.

To conform to these requirements, the project must meet one of the following 4 light level options (a, b, c, or d) below. These light levels are measured on the vertical plane at eye level of the occupant. The light levels are achieved at least between the hours of 9 a.m. and 1 p.m. and may be lowered after 8 p.m. at night.

DESIGNING WITH ELECTRIC LIGHT ONLY	DESIGNING WITH BOTH ELECTRIC LIGHT & DAYLIGHT	POINTS
a. At least 150 EML [136 melanopic equivalent daylight D65]	b. The project achieves at least 120 EML [109 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	1
c. At least 240 EML [218 melanopic equivalent daylight D65]	d. The project achieves at least 180 EML [163 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	3

Choose from a BIOS Static or BIOS Dynamic light engine to assist in a healthy, circadian lighting design. CCT, CRI, Luminous Flux Multipliers, and Melanopic Ratios are shown below for easy specification.

CIRCADIAN LIGHTING DESIGN (3PT MAX)	BIOS STATIC (BIOS)			BIOS DYNAMIC (BIOSD)			HOW TO SPECIFY
<b>CCT</b>	3000K	3500K	4000K	3000K	3500K	4000K	1. Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b> 2. Select the appropriate Lumen <b>OUTPUT</b> 3. Select the appropriate <b>CCT</b>
<b>CRI / R9</b>	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	
<b>LUMINOUS FLUX MULTIPLIER</b>	0.95	0.98	1.00	0.95	0.98	1.00	See BIOS LED Lamping and Performance Details at the back of this spec sheet for lumen outputs, COI index values, and other additional information.
<b>MELANOPIC RATIO (R)*</b>	0.70	0.80	0.90	0.74	0.83	0.95	

### GLARE CONTROL FEATURE L04

Glare is defined as excessive brightness of a light-source, excessive brightness-contrasts and excessive quantities of light. Glare has been associated with a host of health issues that range from visual discomfort and eye fatigue to headaches and migraines.

To conform to Glare Control requirements, each luminaire must meet one of the following options (a, b, or d) for regularly occupied spaces.

GLARE CONTROL CRITERIA (3PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. Indirect (100% emission above horizontal)	✓	-	-
b. Unified Glare Rating (UGR)*	✓	12.2 @ 16ft (HI Output) 10.94 @ 20ft (HI Output)	1. Select <b>ANY</b> output for <b>LED LAMPING</b> 2. Select <b>ANY</b> option for <b>BASE MODEL</b>
c. Shielding Angle	No	-	-
d. Max. Luminance (45°-90°) Max. Intensity (45°-90°)	✓	5924 cd/m <sup>2</sup> @ LOW Output 453.37 cd @ MED Output	1. Select an output of <b>LOW</b> for <b>LED LAMPING</b> 2. Select <b>ANY</b> option for <b>BASE MODEL</b>

\*Advertised UGR values are averages and were calculated in AGI32 using the following method: 1) A 5.4m x 3.6m room was created and fixtures were spaced 2m apart center-to-center. Calculations were performed at 16ft. and 20ft.

Rev 120622

**LP3.5R – SPECIFICATIONS  
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**ALWUSA.COM  
7 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

Type:

**R42-10'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™ (CONTINUED)

### ELECTRIC LIGHT QUALITY - PART 1: COLOR RENDERING QUALITY + PART 2: FLICKER FEATURE L07

Using light sources that have characteristics similar to daylight, including high color rendering and minimal flicker can improve comfort and well-being of users in a space and contribute to creating a healthy environment.

Part 1: Each luminaire must meet one of the following requirements (a or b) for regularly occupied spaces.

Part 2: Each luminaire must meet the IEEE 1789-2015 Standard Recommended Practice to manage flicker.

PART 1 - ENSURE COLOR RENDERING QUALITY (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. CRI > 90	✓	CRI = 93 - 95	• Select <b>90</b> (90CRI) for <b>LED LAMPING</b>
b. CRI > 80 with R9 > 50	✓	CRI = 83, R9 > 90	• Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b>
c. IES Rf ≥ 78, IES Rg ≥ 100, -1% ≤ IES Rcs, h1 ≤ 15%	No	-	-
PART 2 - MANAGE FLICKER (1PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
Meets IEEE 1789-2015 Standard Recommended Practice	✓	Modulation = 1% Flicker Frequency = 120 - 2000Hz	• Select <b>0/10V/S, 0/10V/1%, ECOSYS1, DALI</b> or <b>DMX</b> for <b>LED DRIVER</b>



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:****R42-10'**

MID23-74318

**PERFORMANCE DETAILS**

OUTPUT	DELIVERED LUMENS/FT	EFFICACY (LM/W)	WATTS/FT <sup>14</sup>	CRI OPTIONS	CCT OPTIONS
LOW <sup>15</sup>	635	Up to ~103	6.2	80 90	2700K (90CRI Only) 3000K 3500K 4000K 5000K
MIN <sup>15</sup>	870		8.4		
HI <sup>15</sup>	1100		10.7		
TUNE	WW: 416, CW: 450	Up to ~107	8.4	90+	
RGB <sup>16</sup>	125	N/A	5	N/A	
RGBW <sup>17</sup>	RGB: 122 RGB+W: 325 White Only: 203		5x	80 (White Chip)	2700K - 6500K

**MOD TO 900 LUMENS/FT**

<sup>14</sup>Lumens/Watt and Watts/ft have been calculated assuming a driver efficiency of 85%. Depending on field conditions, actual measured values may fluctuate by 5-8%.

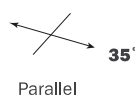
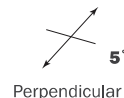
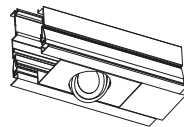
<sup>15</sup>Performance calculations are based on LM-79 test of HI output at 80 CRI and 4000K. LOW and MED calculations are extrapolated values.

<sup>16</sup>Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue).

<sup>17</sup>Performance calculations are derived from the following LM-79 tests: 1) RGB LEDs illuminated, 2) RGB+W LEDs illuminated, 3) White LED only illuminated.

**PERFORMANCE DETAILS - ACCENT/DOWNLIGHT LAMPING**

SPOT	DELIVERED LUMENS (LM)	WATTS (W)	EFFICACY (LM/W)	CRI	CCT OPTIONS	BEAM SPREAD OPTIONS (DEGREES)
DL800	800	5.1	157	80 90	2700K 3000K 3500K 4000K	25 40
DL1000	1000	6.7	150			
DL1500	1500	10.5	143			

**AIMING**

Rev 120622

**LP3.5R - SPECIFICATIONS**  
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**ALWUSA.COM**  
9 of 17



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

Type:

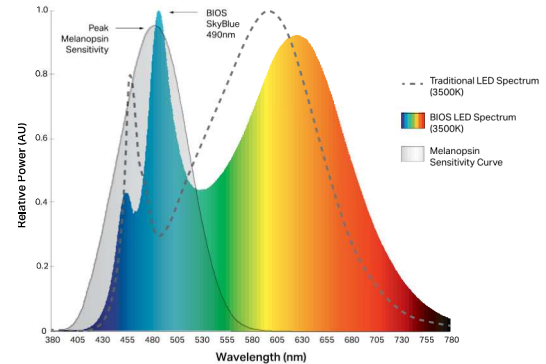
**R42-10'**

MID23-74318

**BIOS OVERVIEW**

BIOS SkyBlue® technology is designed to provide the specific circadian stimulus required to improve overall sleep by **featuring a distinct peak in the 'skyblue' spectral power at 490nm**. Unlike traditional white LEDs, BIOS SkyBlue® makes it possible to achieve **high EML (Equivalent Melanopic Lux) and Melanopic/Photopic ratios** without harsh CCTs or high, glare-inducing light levels.

BIOS light engines are available in **Static** or **Dynamic** options for use with a variety of applications. In Static light engines, the SkyBlue 490nm signal always remains on while the fixture is powered. Dynamic options include a dynamic board and Bio-Dimmer module to allow the user to dim-out the SkyBlue 490nm signal during night time hours.



	<b>BIOS STATIC (BIOS)</b>	<b>BIOS DYNAMIC + BIO-DIMMING™ (BIOSD)</b>
<b>DESCRIPTION</b>	490nm SkyBlue light signal always remains on while the fixture is powered.	Dynamic light engine with Bio-Dimming add the ability to fine-tune and dim-out the 490nm SkyBlue signal during night time hours or as desired.
<b>TYPICAL APPLICATIONS</b>	Environments typically occupied only during daylight hours (6am - 8pm) such as offices and schools.	Environments occupied for a 24-hour period such as hospitals, security facilities, behavioral health facilities, factories, etc.
<b>CONTROLS &amp; DIMMING*</b>	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS melanopic ratio remains constant as you dim down the light intensity.	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS SkyBlue® LED can be dimmed-out using a standard control/dimmer.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.

**BIOS LED LAMPING DETAILS (STATIC OR DYNAMIC)**

<b>OUTPUT</b>	<b>DELIVERED LUMENS (LM/FT)</b>	<b>WATTS (W/FT)</b>	<b>EFFICACY (LM/W)</b>	<b>CRI OPTIONS</b>
<b>LOW<sup>18</sup></b>	635	6.2	Up to ~103	82+
<b>MED<sup>18</sup></b>	870	8.4		
<b>HI<sup>18</sup></b>	1100	10.7		

**BIOS LED PERFORMANCE DETAILS**

<b>CCT</b>	<b>CRI (Ra)</b> <i>Static BIOS</i> <i>Dynamic BIOS</i>	<b>CRI (R9)</b> <i>Static BIOS</i> <i>Dynamic BIOS</i>	<b>DAYTIME M/P RATIO<sup>19</sup></b> <i>Static BIOS</i> <i>Dynamic BIOS</i>	<b>NIGHTTIME M/P RATIO<sup>20</sup></b> <i>Static BIOS</i> <i>Dynamic BIOS</i>	<b>COI<sup>21</sup></b> <i>Static BIOS</i> <i>Dynamic BIOS</i>
<b>3000K</b>	82	94	0.70	0.70	3.0
	83	90	0.73	0.45	3.3
<b>3500K</b>	83	91	0.80	0.80	3.1
	83	90	0.84	0.50	3.1
<b>4000K</b>	83	91	0.90	0.90	3.1
	83	90	0.95	0.55	3.1

<sup>18</sup>Performance calculations are based on LM-79 test of BIOS 4000K, HI output. LOW and MED calculations are extrapolated values.

<sup>19</sup>Melanopic to photopic (M/P) ratios are used to help calculate equivalent melanopic lux (EML) values which is the metric used for circadian lighting in the WELL™ Building Standard.

<sup>20</sup>Static LED nighttime M/P ratios remain the same as daytime M/P ratios as BIOS SkyBlue® always remains at full output.

<sup>21</sup>BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.

Rev 120622

**LP3.5R - SPECIFICATIONS**  
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**ALWUSA.COM**  
**10 of 17**





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:**  
**R42-10'**

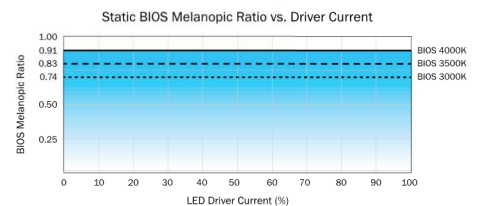
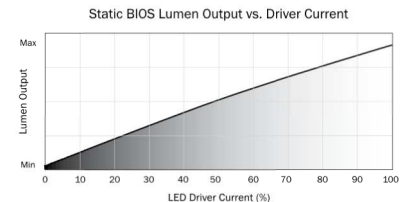
MID23-74318



**BIOS STATIC DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	LIGHT OUTPUT* (BIOS SKYBLUE® + WHITE LED)		BIOS + White LED Intensity Dimming
100%* (Full On)	100%		
99% - 51%	Linear Dimming 99% - 51%		
50%	Linear Dimming 50%		
49% - 0%	Linear Dimming 49% - 0%		

BIOS SkyBlue® LED and White LED dim with a 1-to-1 ratio.



\*While melanopic ratio remains constant, dimming/reducing light output will have an overall impact on Equivalent Melanopic Lux (EML). That is because  $EML = \text{Vertical Lux} \times \text{melanopic ratio}$ . Therefore, if you reduce light levels by dimming the LEDs, you will reduce your effective EML, even when the melanopic ratio stays constant.

**BIOS DYNAMIC + BIO-DIMMING™ DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT	
100%* (Full On)	100%	100%	100%	Bio-Dimming
99% - 51%	100% - 0%	100%	100% - 90%	
50%	NO BIOS	100%	~90%	White LED Intensity Dimming
49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	

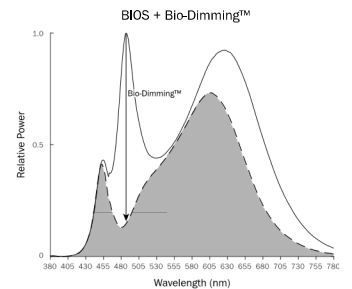
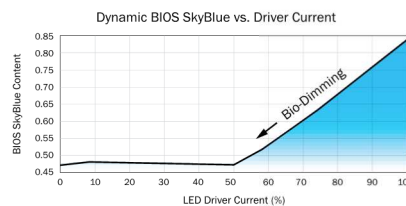
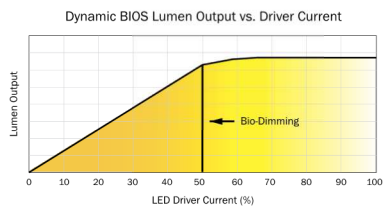
BIOS SkyBlue® maintained for maximum circadian impact.

Light output remains relatively constant.

BIOS SkyBlue® removed to provide minimal circadian impact.

White LED output dims linearly.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.



Rev 120622



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**Catalog Number:**  
LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

Type:

**R42-10'**

MID23-74318

**DRIVERS**

PRODUCT CODE	DESCRIPTION
<b>N</b>	None. Choose when indirect lamping is not desired.
<b>V00</b>	0-10V dimming down to 0% (dim to off).
<b>V01</b>	0-10V dimming down to 1%.
<b>V05</b>	0-10V dimming down to 5% (Down to 10% for TUNE lamping).
<b>P01</b>	ELV/TRIAC Phase dimming down to 1%
<b>LDE1</b>	(LDE1) Lutron Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
<b>LTEA</b>	(LTEA) Lutron Hi-Lume 1% 2-wire TRIAC dimming (120V forward-phase only).
<b>TSERIES</b>	Lutron T-Series Tunable White Class 2 LED Driver (For use with Lutron Quantum Control Systems)
<b>ELDV0</b>	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)
<b>ELDDW</b>	eldoLED 0/10V dim-to-warm dimming down to 0% (specify with TUNE LED lamping. Driver will be programmed with LightShape dim-to-warm setting)
<b>DALI</b>	DALI flicker-free dimming down to 0%.
<b>DMX</b>	DMX flicker-free dimming down to 0%.
<b>POEM</b>	Molex CoreSync PoE LED Driver. Contact ALW to assist with your project.
<b>POEI</b>	IGOR PoE LED Driver. Contact ALW to assist with your project.
<b>POEN</b>	NuLEDS PoE LED Driver. Contact ALW to assist with your project.
<b>POE</b>	Specify a PoE driver of your choice. Fixture comes with low voltage leads and no LED driver. Contact ALW to assist with your project

\*Most drivers can be programmed to specific dimming levels if desired. Contact ALW for specific dimming level requests. ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

DRIVER/LED LAMPING COMPATIBILITY							
	STD	STD/BIOS	TUNE	RGB	RGB(W)	CA TITLE 24 JA8/JA10 <sup>22</sup>	IEEE P1789 & HD TV STUDIO <sup>23</sup>
<b>V00</b>	●	●	●			●	
<b>V01</b>	●	●	●			●	
<b>V05</b>	●	●	●			●	
<b>P01</b>	●	●				●	
<b>LDE1</b>	●	●				●	●
<b>LTEA</b>	●	●				●	
<b>TSERIES</b>			●			●	●
<b>ELDV0</b>	●	●	PER REQUEST			●	●
<b>ELDDW</b>			●				
<b>DALI</b>	●	●	●			●	
<b>DMX</b>	●		●		●	PER REQUEST	PER REQUEST
<b>POEM</b>			PER REQUEST			●	●
<b>POEI</b>			PER REQUEST			●	●
<b>POEN</b>			PER REQUEST			●	●

● - Indicates compatibility

\* Standard lamping (STD) - LOW/MED/HI

<sup>22</sup> Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to California Title 24 JA8 and JA10 Appendices

<sup>23</sup> The following drivers conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.

Rev 120622

**LP3.5R - SPECIFICATIONS**  
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**ALWUSA.COM**  
**12 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

Type:

**R42-10'**

MID23-74318

**SENSORS**

	PRODUCT CODE	DESCRIPTION	Location
	<b>N</b>	None. Choose when sensors are not desired.	-
<b>COOPER WAVELINX</b>	<b>WLNX/INT</b>	Wavelinx Wireless integral occ/daylight sensor (WaveLinX part: OEM-WAA)	Integral
	<b>WLNX</b>	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Remote
<b>ENLIGHTED™</b>	<b>ENLGH/INT</b>	Enlighted integral connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5E-CL)	Integral
	<b>ENLGH</b>	Enlighted® remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote
<b>LUTRON VIVE</b>	<b>VRF</b>	Lutron® Vive integral RF wireless fixture control (Lutron Part: DFCSJ-OEM-RF)	Integral
	<b>VDO</b>	Lutron® Vive integral RF wireless fixture control + daylight/occ sensor (Lutron Part: DFCSJ-OEM-OCC)	Integral
	<b>FCJS</b>	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote
	<b>FCJS/S</b>	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	Molex CoreSync PoE Integral Fixture-Mounted Sensor R - occ/daylight/temperature/humidity (Molex Part: 182091-1000)	Integral
	<b>MLX</b>	Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from	Remote
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	Fixture is built with nLight Wired integral components specified by agency. Contact ALW to review project details.	Integral
	<b>NLT</b>	Fixture is built to connect to nLight Wired remote components specified by agency. Contact ALW to review project details.	Remote
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	Fixture is built with nLight Air (Wireless) components specified by agency. Contact ALW to review project details.	Integral
	<b>NLTAIR</b>	Fixture is built to connect to nLight Air (Wireless) remote components specified by agency. Contact ALW to review project details.	Remote
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	Acuity 0-10VDC Integral occ/daylight sensor (Acuity Part: MSD 7 ADC WH) Automated Dimming Functionality Only. Manual Dimming not available. Customer to set sensor functionality in the field. Lowest dim level depends on driver.	Integral
	<b>OS/INT/HV</b>	Legrand Wattstopper <b>High Voltage</b> Integral occ/daylight on/off sensor (Part: FS-355) On/Off or Manual Dimming Functionality Only (based on occupancy and daylight). Connect fixture 0/10V wires to wall dimmer in the field. No Automated Dimming available.	Integral
	<b>OS/PH/HV</b>	Hubbell WASP <b>High Voltage</b> 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDSMUNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Remote

\*All connected lighting sensors/systems must be programmed in the field by an electrical commissioner familiar with the system. Refer to the 'Sensor Compatibility' and 'Driver/Sensor Compatibility' charts to specify compatible sensors, LED lamping, and LED driver systems.

Rev 120622

**LP3.5R - SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
**13 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

Type:

**R42-10'**

MID23-74318

**SENSORS CONT'D**

SENSOR COMPATIBILITY								
PRODUCT CODE		SENSOR TYPE	MAX MT HT	CA TITLE 24	STD*	TUNE	RGB	RGB(W)
COOPER WAVELINX	WLNx/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	WLNx		15 ft	●	●			
ENLIGHTED™	ENLGHt/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●	CUSTOM REQUEST		
	ENLGHt	OCCUPANCY/PHOTOCELL	40 ft	●	●	CUSTOM REQUEST		
LUTRON VIVE	VRF	WIRELESS CONTROL	12 ft	●	●			
	VDO	OCCUPANCY/PHOTOCELL	12 ft	●	●			
	FCJS	WIRELESS CONTROL	12 ft	●	●			
	FCJS/S/	OCCUPANCY/PHOTOCELL	12 ft	●	●			
MOLEX POE CORESYNC	MLX/INT	OCCUPANCY/PHOTOCELL TEMPERATURE/HUMIDITY	16 ft	●	●			
	MLX		16 ft	●	●	●	CUSTOM REQUEST	CUSTOM REQUEST
NLIGHT WIRED®	NLT/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	NLT		15 ft	●	●			
NLIGHT WIRELESS®	NLTAIR/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	NLTAIR		15 ft (average)	●	●			
VALUE SENSORS	OS/PH/INT	OCCUPANCY/PHOTOCELL	15 ft		●			
	OS/INT/HV	OCCUPANCY/PHOTOCELL	15 ft	●	●	■	■	■
	OS/PH/HV	OCCUPANCY/PHOTOCELL	45 ft	●	●	■	■	■

● - Indicates compatibility ■ - On/off sensor functionality only

\*Standard lamping (STD) - LOW/MED/HI

Rev 120622

**LP3.5R - SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
**14 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S10-HI/80/3500-0/10V/  
1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:**  
**R42-10'**

MID23-74318



**SENSORS (CONT'D)**

DRIVER/SENSOR COMPATIBILITY									
	WLNx/INT	WLNx	ENLGHt/ INT	ENLGHt	VRF	VDO	FCJS	FCJS/S /	MLX/INT
V00	●	●	●	●			●	●	
V01	●	●	●	●			●	●	
V05	●	●	●	●			●	●	
P01									
LDE1					●	●	●	●	
LTEA									
TSERIES									
ELDV0									
ELDDW									
DALI					●	●			
DMX									
POE/ MOLEX									●
POE/IGOR	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ NULEDS	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ READY	Sensor types will depend on the PoE system configuration. Contact ALW for details.								

- - Indicates compatibility
- ▲ - Fixture can have automated dimming via sensor OR on/off functionality and manual dimming
- - On/off sensor functionality only

DRIVER/SENSOR COMPATIBILITY CONT'D									
	MLX	NLT/INT	NLT	NLTAIR/INT	NLTAIR	OS/PH/INT	OS/INT/HV	OS/PH/HV	NO SENSOR
V00						●	■	▲	●
V01						●	■	▲	●
V05						●	■	▲	●
P01							■	■	●
LDE1									●
LTEA							■	■	●
TSERIES							■	■	●
ELDV0		●	●	●	●	●	■	▲	●
ELDDW							■	■	●
DALI							■	■	●
DMX							■	■	●
POE/ MOLEX	●								●
POE/IGOR	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ NULEDS	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ READY	Sensor types will depend on the PoE system configuration. Contact ALW for details.								

Rev 120622

**LP3.5R - SPECIFICATIONS  
RECESSED**

**ALWUSA.COM  
15 of 17**



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1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:****R42-10'**

MID23-74318

**PHOTOMETRICS**

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC) <sup>24</sup> (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
EXT		6 ft	22.8	1.24 1.24	784.4	1100
		8 ft	12.3			
		10 ft	7.8			
		12 ft	5.4			
		14 ft	4			
		16 ft	3.1			

\*Photometric calculations based on HI 4000K 80 CRI fixture combination. Actual results may vary in the field.

For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#).

<sup>24</sup> criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface.  
Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).



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1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes:

**Type:****R42-10'**

MID23-74318

**ADDITIONAL OPTIONS & SPECIFICATIONS****LED PERFORMANCE**

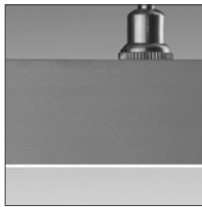
> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

**HOUSING**

100% recyclable, extruded architectural grade 6061 aluminum with a 0.08" minimum wall thickness.

**LENS OPTIONS**

Extruded, twin-layered, high-impact acrylic. EXT is white and extra diffuse with minimal- to no-source visibility.



FLUSH LENS – EXT/F

**SAFETY & REGULATORY**

Fixtures specified with 90CRI, 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to **California Title 24 JA8 and JA10** Appendices. EidoLED drivers can conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'.

Contact [ALW customer support](#) today and we can help you with your project requirements..

ETL Listed (U.S. & Canada). Suitable for dry or damp locations. Conforms to UL std. 1598, Luminaires. Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2.

**WARRANTY**

Limited 11-year warranty. Details: [alwusa.com/warranty](http://alwusa.com/warranty)

**OPERATING TEMPERATURE**

Luminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from -4 °F to 122 °F (-20 °C to 50 °C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

**INTEGRAL DOWNLIGHTS**

Optional, aimable accent downlights deliver 800-1500 lumens with a beam spread of 25° or 40°. Hex cell (HEX) and snoot (SNT) accessories are also available.

**CONTROLS, SENSORS, & LED DRIVER**

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, nLight, Cooper Wavelinx, eldoLED, Molex PoE, NuLEDS PoE, Igor PoE, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact [ALW customer support](#) today so we can review your requirements.

**WEIGHT**

Approximately 3 lbs. per linear foot (not including downlight option). Weight may vary depending on mounting, downlight, and additional options selected.

**WOOD VENEER**

Most ALW fixture configurations are available with [real wood veneer](#) as a custom request. Contact [ALW customer support](#) so we can help you with your custom wood veneer request.

**CHICAGO PLENUM CERTIFICATION**

Recessed fixtures for this product family are available to meet Chicago Plenum certification in continuous lengths. For Chicago Plenum options please contact ALW.

Rev 120622

**LP3.5R – SPECIFICATIONS**  
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**ALWUSA.COM**  
**17 of 17**





**Downlighting**  
**EasyLyte**  
Z6RDL 6" Round downlight



**EasyLyte downlights** are adaptable, and flexible for your changing project needs. EasyLyte is your best choice without sacrificing ease of installation or product quality. Ideal for use in open office, healthcare, design build, and other light commercial applications.

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

Standard luminaire = Frame + Engine/Trim + Accessories (optional)

**PROVIDE LIGHTOLIER C6RN  
FIXTURE OR EQUAL LISTED IN LFS**

**Frame** example: 6RN

Series	Aperture	Installation	Options
<b>6</b>	<b>R</b>		
6 Uniframe 6-inch	R Round	<b>N</b> New construction (Non-IC) R Remodeler (Non-IC) A AirSeal (IC) <sup>1</sup>	- Universal 120/277/347V <sup>2</sup> LC Chicago Plenum <sup>3</sup> EM6 Emergency 6W Self-Test/Self-Diagnostic (not available for BAC) <sup>3,4</sup>

**Engine / Trim** example: Z4RDL20935WOCZ10U

Series	Lumen	CRI/CCT	Beam	Step	Reflector	Flange	Dimming	Voltage
<b>Z6RDL</b>			<b>W</b>					
Z6RDL EasyLyte 6-inch Round downlight	10 1000lm 15 1500lm 20 2000lm 25 2500lm 30 3000lm 35 3500lm	927 90CRI / 2700K 930 90CRI / 3000K <b>935 90CRI / 3500K</b> 940 90CRI / 4000K 950 90CRI / 5000K	W White	O Open S Step baffle	WH White BK Black DB Dark Bronze CD Clear Diffuse	- White (matte) BK Black (matte)	<b>Z10 0-10V 1%</b>	<b>U 120/277V</b> 3 347V <sup>7,8</sup> (Z10 only)

**Accessories** (Not currently BAA-compliant) [Learn more on page 2\)](#)

- SBA** Interact Ready System Bridge Accessory with integral occupancy and daylight sensor (compatible with all 0-10V options, see SBA spec sheet)<sup>9</sup>
- CAEM6** Field installable Bodine SL6 6W battery pack with self-test/self-diagnostic for use with new construction frames, 120-277V
- AMS** ActiLume multi-sensor (optional accessory for PoE configurations)
- CAEM6TSCP** Surface mount cover plate to remote mount test switch for EM6 frame option.

**Sloped Ceiling** example: 7925MD

Series	Degree of Slope
7925 Sloped Ceiling Adapter	MC 5° MF 20°
	MD 10° MG 25°
	ME 15° MH 30°

- There is a 3000lm (30) limit with 6" (6RA) IC housings.
- Universal 120-347V is for 0-10V (Z10) dimming configurations only. For 347V non-Z10 dimming, order 347V (3) frame with (U) light engine/trim.
- Interact Pro (RADIO), Emergency (EM6) and Chicago Plenum (LC) are only available with New construction (N) installs.
- EM6 option compatible with new construction (N) frame only. Order CAEM6TSCP ceiling mounting plate accessory for remote mounted test switch. EM6 option not compatible with Power over Ethernet or 347V configurations.
- Integral Interact Pro RF sensor enables network lighting control; to be specified with 0-10V light engines only.
- ELV (E) dimming is only compatible with 1000lm (10), 1500lm (15), 2000lm (20) configurations. Not compatible with 347V frame options.
- Specify standard UNV frame for use with 347V light engines.
- The 347V light engine voltage option is available only with Z10 dimming option. For other dimming protocols order (U) light engine and 347V (3) frame.
- Requires IRT9015 IR remote & Interact Pro App for commissioning.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL10935W OCDZ10U

Notes:

**Type:**

**R60**

MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C6RN  
FIXTURE OR EQUAL LISTED IN LFS**

## Features

### Optics

- Provides a 70° cutoff (physical and reflected)
- Wide beam distribution for general illumination
- Spun aluminum outer reflector with integral flange painted white
- Injection molded plastic trim inserts in splay and baffle options
- Reflectors available in painted clear diffuse, white, black and dark bronze

### Quality of light

- Lumen Maintenance: L70 at 60,000 hours
- Color consistency: 2 SDCM
- 90 CRI minimum

### Construction (New Construction)

- Galvanized stamped steel for dry / plaster ceilings.
- Pre-installed telescoping mounting bars (13" - 24")
- Frame accommodates C- channel, black iron, and 3/4" EMT for mounting distances greater than 24" between joists.
- Manufactured from 20 gage galvanized steel construction with rolled edge aperture to guide cutting tools for perfect hole cutting.

**Max ceiling thickness is 2" (51 mm).  
Including PoE frame 4.88" (124 mm).**

### Patented install mounting frame

- Pre-installed mounting bars allow for fast and tool-less install into T-grid and hat channel ceilings
- Close-cut aperture design eliminates an undesired gap between ceiling material and reflector.
- Simple plug-and-play connection between frame and light engine from below the ceiling allows for:
  - Easy upgrades
  - Technology changes
  - Repairs and troubleshooting

## Dimming

### 120/277V

- Advance 0-10V 1% dimming
- Lutron Hi-lume EcoSystem H Series 1% dimming

### 347V

- Integral 347V drivers available for 0-10v (Z10) light engine configurations with standard universal frames.
- For 347V and non-0-10v dimming, order (U) light engine and 347V (3) frame (includes step down transformer). Not compatible with ELV dimming.

## Emergency

Remote ceiling mounted test switch. Accessory ceiling mounting plate available (CAEM6TSCP) for remote mounted test switch. See Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

## Power over Ethernet

**Powered via Philips PoE lighting controller:** complies with FCC rules per article 47 part 15 (Class A) for EMI / RFI (conducted & radiated). PoE lighting controller accessible from below ceiling.

**Rated life:** 60,000 hrs at 70% lumen maintenance based on IES LM-80-08 and TM-21-11.

## Sloped Ceiling Adapter

**Material:** 16 ga. spun aluminum, matte white finish.  
**Installation:** Installs with standard recessed fixture in sloped ceilings without changing the vertical axis of the fixture or its lighting characteristics.

**Perforated Tabs (4):** Provide temporary support for the slope ceiling adapter during installation.

**Locking Screws (4):** Secure slope ceiling adapter to mounting frame of fixture.

**Support:** Fixture must be supported by ceiling structure – not Slope Ceiling Adapter.

## Options and Accessories

**Field Installed Emergency:** Refer to Calculite-Lyte-Profile-EasyLyte Emergency Battery Pack specification sheet for more details.

**CAEM6:** Field install EM6 kit with Bodine BSL6 6W battery pack with self-test/self-diagnostic, mounts to new construction frame. Includes ceiling plate for remote test switch.

**CAEM6TSCP:** Ceiling cover plate for remote mounted R60 test switch. 1" (25mm) hole, 4 3/8" (109mm) x 2 5/8" (69mm) rectangular. Includes two mounting screws.

## ENERGY STAR® exceptions

- 500lm configurations
- Black & Dark bronze finishes
- Power Over Ethernet drivers

## Labels and Listings

- cULus listed for wet location
- ENERGY STAR® certified
- RoHS certified
- Consult factory for Buy America Compliance

## Warranty



5 year limited warranty  
Visit [Signify.com/warranties](http://Signify.com/warranties) for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

## Finishes



### White

Brightest aperture when illuminated and provides the smoothest transition to most ceilings when off (only available with a white flange).



### Black

Specular finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



### Dark Bronze

Specular finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



### Clear diffuse

Slightly diffuse clear finish that softens the light and reduces the mirror image effect with traditional aluminum specular finishes (only available with a white flange).



**Job Name:**  
DUTCHESS STADIUM  
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(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL10935W OCDZ10U

Notes:

Type:

**R60**

MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C6RN  
FIXTURE OR EQUAL LISTED IN LFS**



## AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.



**Standard CRI 80**  
Good color rendering  
and high efficacy



**Standard CRI 90**  
Better color rendering  
and low efficacy



**AccuRender**  
Best color rendering,  
color preference and high efficacy

### Enjoy design flexibility

#### Full range of products and options:

- Available soon in across Lightolier portfolio for application flexibility
- Multiple color temperatures (CCTs) and lumen packages offered

### Promote savings

#### High efficacy, with no penalty:

- Energy efficacy comparable well to conventional 80 CRI
- Up to 25% more energy savings vs competitor 90 CRI<sup>1</sup>
- Helps meet Title 24 requirements

### Show your true colors

#### High color rendering:

- True to life colors to help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- R<sub>a</sub> up to 94 CRI    R<sub>f</sub> up to 92 TM-30
- R<sub>g</sub> up to 67 CRI    R<sub>fr,ht</sub> up to 91 TM-30
- G<sub>s</sub> up to 99 CRI    R<sub>g</sub> up to 100 TM-30
- C<sub>s</sub> up to 94 CRI    R<sub>cs,ht</sub> up to -5% TM-30

### Achieve color balance

#### Best in class color consistency:

- Promote aesthetic harmony in your space with  $\leq 2$  SDCM

Submitted by Lightspec, LLC. - Mid Hudson  
 6" NEW CONSTRUCTION  
**Job Name:**  
 DUTCHESS STADIUM  
 Distributor: LS FIELDTECH, LLC.  
 (ROCHESTER)

**Catalog Number:**  
 6RN-Z6RDL10935WOCZ10U  
 Notes:

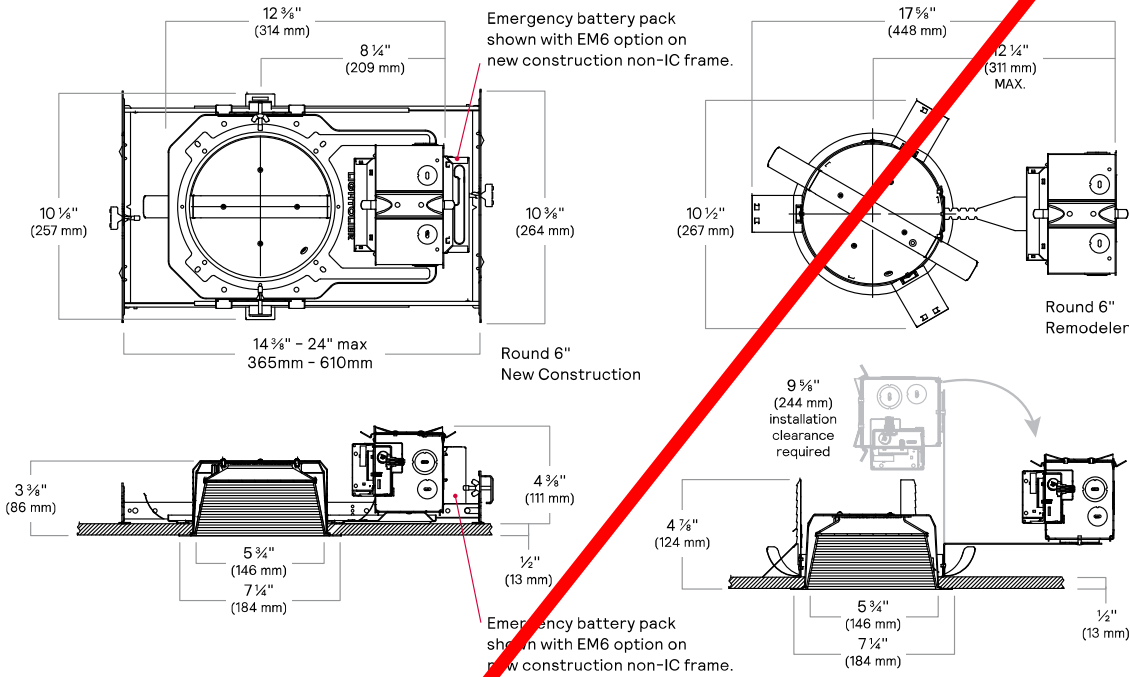
**Type:**  
**R60**  
 MID23-74318

# Z6RDL EasyLyte 6"

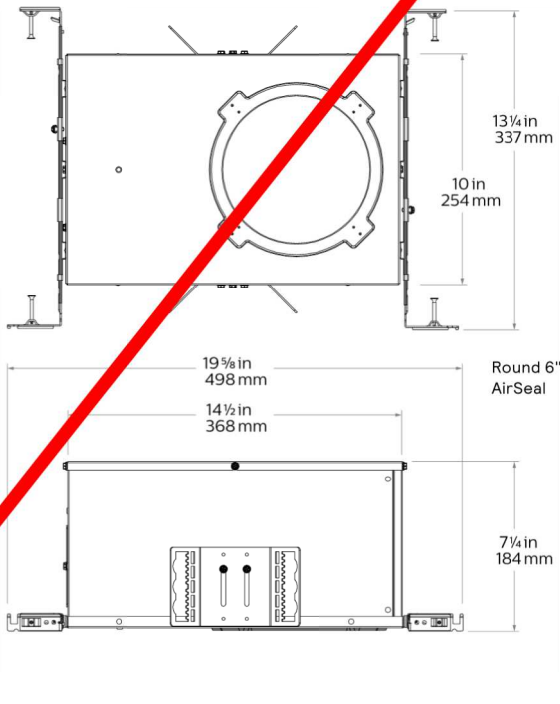
## Round Downlight

**PROVIDE LIGHTOLIER C6RN  
 FIXTURE OR EQUAL LISTED IN LFS**

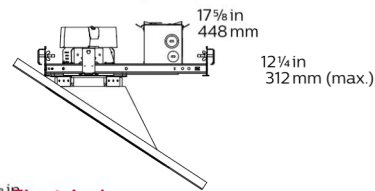
**Dimensions**



**AirSeal (A)**



**Sloped Ceiling Adapter**



**Electrical**

All have an input frequency of 50/60Hz

Light engine	Input volts	Input Current	Input Power	LED Drive Current	LED Power	THD Factor @ Max Load	Power Factor @ Max Load
<b>Z6*10*</b>	120V	0.070A	8.4W	0.22A	7.1W	<10%	>0.9
	277V	0.031A	8.6W	0.22A	7.1W	<15%	>0.9
	347V	0.028A	9.9W	0.22A	7.1W	<15%	>0.9
<b>Z6*15*</b>	120V	0.106A	12.8W	0.33A	10.9W	<10%	>0.9
	277V	0.047A	13.1W	0.33A	10.9W	<15%	>0.9
	347V	0.042A	14.5W	0.33A	10.9W	<15%	>0.9
<b>Z6*20*</b>	120V	0.164A	19.6W	0.50A	16.9W	<10%	>0.9
	277V	0.071A	19.6W	0.50A	16.9W	<15%	>0.9
	347V	0.061A	21.1W	0.50A	16.9W	<15%	>0.9
<b>Z6*25*</b>	120V	0.204A	24.5W	0.63A	21.3W	<10%	>0.9
	277V	0.089A	24.5W	0.63A	21.3W	<15%	>0.9
	347V	0.079A	25.7W	0.63A	21.3W	<15%	>0.9
<b>Z6*30*</b>	120V	0.258A	31.0W	0.78A	27.0W	<10%	>0.9
	277V	0.112A	31.0W	0.78A	27.0W	<15%	>0.9
	347V	0.092A	32.1W	0.78A	27.0W	<15%	>0.9
<b>Z6*35*</b>	120V	0.304A	36.5W	0.90A	31.8W	<10%	>0.9
	277V	0.132A	36.5W	0.90A	31.8W	<15%	>0.9
	347V	0.108A	37.4W	0.90A	31.8W	<15%	>0.9



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL10935WOCZ10U

Notes:

Type:

**R60**

MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C6RN  
FIXTURE OR EQUAL LISTED IN LFS**

## Photometry

Reflector	Flux (lm)	Power (W)	Efficacy (lm/W)	CRI	R9	Beam Angle	Field Angle	Spacing Criterion
Open DL - Bronze	593	9.7	61.3	93	59	77°	110°	1.106
Open DL - Black	574	9.7	59.4	93	59	77°	110°	1.101
Open DL - White	917	9.7	94.8	92	53	82°	131°	1.158
Open DL - Clear Diffuse	1006	9.7	104.0	92	58	87°	124°	1.218
Baffle - Black	584	9.7	60.4	93	59	77°	110°	1.108
Baffle - White	1031	9.7	106.6	93	56	84°	135°	1.180
Baffle - Clear Diffuse	832	9.7	86.1	93	58	86°	131°	1.202
Open DL - Bronze	898	13.7	65.5	93	59	77°	110°	1.106
Open DL - Black	869	13.7	63.4	93	59	77°	110°	1.101
Open DL - White	1388	13.7	101.2	92	53	82°	131°	1.158
Open DL - Clear Diffuse	1523	13.7	111.1	92	58	87°	124°	1.218
Baffle - Black	884	13.7	64.5	93	59	77°	110°	1.108
Baffle - White	1561	13.7	113.9	93	56	84°	135°	1.180
Baffle - Clear Diffuse	1260	13.7	91.9	93	58	86°	131°	1.202
Open DL - Bronze	1321	20.2	65.5	93	59	77°	110°	1.106
Open DL - Black	1279	20.2	63.4	93	59	77°	110°	1.101
Open DL - White	2042	20.2	101.2	92	53	82°	131°	1.158
Open DL - Clear Diffuse	2241	20.2	111.1	92	58	87°	124°	1.218
Baffle - Black	1301	20.2	64.5	93	59	77°	110°	1.108
Baffle - White	2297	20.2	113.9	93	56	84°	135°	1.180
Baffle - Clear Diffuse	1854	20.2	91.9	93	58	86°	131°	1.202
Open DL - Bronze	1582	25.1	63.0	93	59	77°	110°	1.106
Open DL - Black	1531	25.1	61.0	93	59	77°	110°	1.101
Open DL - White	2445	25.1	97.4	92	53	82°	131°	1.158
Open DL - Clear Diffuse	2684	25.1	106.9	92	58	87°	124°	1.218
Baffle - Black	1558	25.1	62.0	93	59	77°	110°	1.108
Baffle - White	2750	25.1	109.5	93	56	84°	135°	1.180
Baffle - Clear Diffuse	2220	25.1	88.4	93	58	86°	131°	1.202
Open DL - Bronze	1876	31.2	60.1	93	59	77°	110°	1.106
Open DL - Black	1816	31.2	58.2	93	59	77°	110°	1.101
Open DL - White	2950	30.8	94.1	92	53	82°	131°	1.158
Open DL - Clear Diffuse	3182	31.2	102.0	92	58	87°	124°	1.218
Baffle - Black	1847	31.2	59.2	93	59	77°	110°	1.108
Baffle - White	3261	31.1	104.9	93	56	84°	135°	1.180
Baffle - Clear Diffuse	2633	31.3	84.1	93	58	86°	131°	1.202
Open DL - Bronze	2208	37.1	59.5	93	59	77°	110°	1.106
Open DL - Black	2137	37.1	57.6	93	59	77°	110°	1.101
Open DL - White	3413	37.1	91.9	92	53	82°	131°	1.158
Open DL - Clear Diffuse	3746	37.1	100.9	92	58	87°	124°	1.218
Baffle - Black	2174	37.1	58.6	93	59	77°	110°	1.108
Baffle - White	3839	37.1	103.4	93	56	84°	135°	1.180
Baffle - Clear Diffuse	3099	37.1	83.5	93	58	86°	131°	1.202

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL10935W OCDZ10U

**Type:**  
**R60**

Notes:

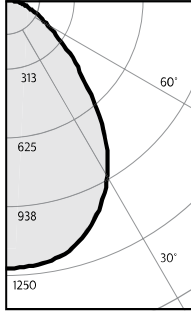
MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C6RN FIXTURE OR EQUAL LISTED IN LFS**

**Downlight, Wide beam, 3300lm Engine, 105lm/W at 31W**

**Candela Curves**



Frame: **6RN**  
Engine/Trim:  
**Z6RDL30935WSWHZ10U**  
Output lumens: 3262 lms  
Input watts: 31.1 W  
CRI: 90 min  
CCT: 3500K  
Beam Angle: 84°  
Spacing Crit.: 1.16

**Zonal summary**

Zone	Lumens	%Luminaire
0-30	1299	39.8%
0-40	2014	61.7%
0-60	2924	89.6%
0-90	3262	100.0%

Angle	Mean CP	Lumens
0	1720	
5	1711	163
10	1692	
15	1647	464
20	1571	
25	1465	672
30	1327	
35	1151	715
40	942	
45	726	564
50	549	
55	381	347
60	261	
65	197	197
70	148	
75	103	110
80	63	
85	27	31
90	0	

**Single unit data**

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	69	5.8'
6'	48	7.0'
7'	35	8.1'
8'	27	9.3'
9'	21	10.4'

\* Beam diameter is where foot-candles drop to 50% of maximum.

**Multiple unit data - RCR 2**

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	138.0	1.38
6'	91.0	0.90
7'	65.0	0.65
8'	54.0	0.54
9'	43.0	0.43

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

**Efficacy: 104.9 lm/w**  
Report#: STMR-674-1

**Coefficients of utilization**

Ceiling	80%					70%					50%					30%					0%					
	70	50	30	10	0	70	50	30	10	0	70	50	30	10	0	70	50	30	10	0	70	50	30	10	0	
Wall	Zonal cavity method - Effective floor reflectance = 20%																									
RCR																										
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	100	100	100	105	99	100	95	97	93	88	88	88	88	88
	1	111	107	103	100	105	99	100	95	97	93	88	88	88	88	84	84	84	82	82	79	77	77	77	77	77
	2	103	96	90	85	94	84	84	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
	3	95	86	79	74	84	73	82	72	79	70	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
	4	88	78	70	64	76	64	74	63	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
	5	82	71	63	57	70	57	67	56	57	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
	6	75	64	57	51	64	51	62	50	60	50	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
	7	71	59	51	46	58	46	57	45	56	45	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
	8	67	54	47	41	54	41	53	41	51	41	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
	9	63	50	43	38	50	38	49	38	48	38	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
	10	59	47	40	35	46	35	45	35	44	35	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33

**Adjustment factors**

Finish  
WH = 100%  
BK = 57%

**Downlight, Wide beam, 2900lm Engine, 94lm/W at 31W**

**Candela Curves**



Frame: **6RN**  
Engine/Trim:  
**Z6RDL30935WOWHZ10U**  
Output lumens: 2900 lms  
Input watts: 30.8 W  
CRI: 90 min  
CCT: 3500K  
Beam Angle: 82°  
Spacing Crit.: 1.16

**Zonal summary**

Zone	Lumens	%Luminaire
0-30	1181	40.7%
0-40	1816	62.6%
0-60	2609	90.0%
0-90	2900	100.0%

Angle	Mean CP	Lumens
0	1597	
5	1587	151
10	1557	
15	1500	424
20	1403	
25	125	607
30	1188	
35	1021	635
40	838	
45	651	501
50	471	
55	319	292
60	217	
65	164	165
70	128	
75	92	98
80	58	
85	25	28
90	0	

**Single unit data**

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	64	5.7'
6'	44	6.8'
7'	33	8.0'
8'	25	9.1'
9'	20	10.3'

\* Beam diameter is where foot-candles drop to 50% of maximum.

**Multiple unit data - RCR 2**

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	123.0	1.37
6'	81.0	0.90
7'	58.0	0.64
8'	48.0	0.53
9'	39.0	0.43

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

**Efficacy: 94.5 lm/w**  
Report#: STMR-675

**Coefficients of utilization**

Ceiling	80%					70%					50%					30%					0%					
	70	50	30	10	0	70	50	30	10	0	70	50	30	10	0	70	50	30	10	0	70	50	30	10	0	
Wall	Zonal cavity method - Effective floor reflectance = 20%																									
RCR																										
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	100	100	100	105	99	100	95	97	93	88	88	88	88	88
	1	111	107	103	100	105	99	101	96	97	93	88	88	88	88	84	84	84	82	82	79	77	77	77	77	77
	2	103	96	90	85	94	84	91	83	87	81	77	77	77	77	82	82	82	82	82	82	82	82	82	82	82
	3	95	86	79	74	85	73	82	72	79	71	68	68	68	68	77	77	77	77	77	77	77	77	77	77	77
	4	88	78	71	65	77	64	74	64	72	63	60	60	60	60	67	67	67	67	67	67	67	67	67	67	67
	5	82	71	63	57	70	57	68	57	66	56	54	54	54	54	62	62	62	62	62	62	62	62	62	62	62
	6	77	65	57	51	64	51	62	51	61	50	48	48	48	48	56	56	56	56	56	56	56	56	56	56	56
	7	72	60	52	46	59	46	57	46	56	46	44	44	44	44	52	52	52	52	52	52	52	52	52	52	52
	8	67	55	47	42	54	42	53	42	52	42	40	40	40	40	48	48	48	48	48	48	48	48	48	48	48
	9	63	51	43	38	50	38	49	38	48	38	36	36	36	36	44	44	44	44	44	44	44	44	44	44	44
	10	59	47	40	35	47	35	46	35	45	35	33	33	33	33	41	41	41	41	41	41	41	41	41	41	41

**Adjustment factors**

Finish  
CD = 110%  
WH = 100%  
DB = 65%  
BK = 65%

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.  
2. Wattage controlled to within 5%  
3. Correlated Color Temperature: within specs as defined in ANSI/NEMA-ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.



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**Downlighting**  
**EasyLyte**  
**Z6RDL 6" Round downlight**



**EasyLyte downlights** are adaptable, and flexible for your changing project needs. EasyLyte is your best choice without sacrificing ease of installation or product quality. Ideal for use in open office, healthcare, design build, and other light commercial applications.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

Standard luminaire = Frame + Engine/Trim + Accessories (optional)

**PROVIDE LIGHTOLIER C6RN  
 FIXTURE OR EQUAL LISTED IN LFS**

**Frame** example: 6RN

Series	Aperture	Installation	Options
<b>6</b>	<b>R</b>		
6 Uniframe 6-inch	R Round	<b>N</b> New construction (Non-IC) R Remodeler (Non-IC) A AirSeal (IC) <sup>1</sup>	- Universal 120/277/347V <sup>2</sup> LC Chicago Plenum <sup>3</sup> EM6 Emergency 6W Self-Test/Self-Diagnostic (not available for BAC) <sup>3,4</sup>

**Engine / Trim** example: Z4RDL20935WOCZ10U

Series	Lumen	CRI/CCT	Beam	Steps	Reflector	Flange	Dimming	Voltage
<b>Z6RDL</b>			<b>W</b>	<b>O</b>				
Z6RDL EasyLyte 6-inch Round downlight	10 1000lm <b>15 1500lm</b> 20 2000lm 25 2500lm 30 3000lm 35 3500lm	927 90CRI / 2700K <b>930 90CRI / 3000K</b> <b>935 90CRI / 3500K</b> 940 90CRI / 4000K 950 90CRI / 5000K	W White	O Open S Step baffle	WH White BK Black DB Dark Bronze <b>CD Clear Diffuse</b>	- White (matte) BK Black (matte)	<b>Z10 0-10V 1%</b>	<b>U 120/277V</b> 3 347V <sup>7,8</sup> (Z10 only)

**Accessories** (Not currently BAA-compliant) [Learn more on page 2\)](#)

- SBA** Interact Ready System Bridge Accessory with integral occupancy and daylight sensor (compatible with all 0-10V options, see SBA spec sheet)<sup>9</sup>
- CAEM6** Field installable Bodine SL6 6W battery pack with self-test/self-diagnostic for use with new construction frames, 120-277V
- AMS** ActiLume multi-sensor (optional accessory for PoE configurations)
- CAEM6TSCP** Surface mount cover plate to remote mount test switch for EM6 frame option.

**Sloped Ceiling** example: 7925MD

Series	Degree of Slope
7925 Sloped Ceiling Adapter	MC 5° MF 20°
	MD 10° MG 25°
	ME 15° MH 30°

- There is a 3000lm (30) limit with 6" (6RA) IC housings.
- Universal 120-347V is for 0-10V (Z10) dimming configurations only. For 347V non-Z10 dimming, order 347V (3) frame with (U) light engine/trim.
- Interact Pro (RADIO), Emergency (EM6) and Chicago Plenum (LC) are only available with New construction (N) installs.
- EM6 option compatible with new construction (N) frame only. Order CAEM6TSCP ceiling mounting plate accessory for remote mounted test switch. EM6 option not compatible with Power over Ethernet or 347V configurations.
- Integral Interact Pro RF sensor enables network lighting control; to be specified with 0-10V light engines only.
- ELV (E) dimming is only compatible with 1000lm (10), 1500lm (15), 2000lm (20) configurations. Not compatible with 347V frame options.
- Specify standard UNV frame for use with 347V light engines.
- The 347V light engine voltage option is available only with Z10 dimming option. For other dimming protocols order (U) light engine and 347V (3) frame.
- Requires IRT9015 IR remote & Interact Pro App for commissioning.







**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL15935WOCZ10U

Notes:

**Type:**

**R61**

MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C6RN  
FIXTURE OR EQUAL LISTED IN LFS**

## Features

### Optics

- Provides a 70° cutoff (physical and reflected)
- Wide beam distribution for general illumination
- Spun aluminum outer reflector with integral flange painted white
- Injection molded plastic trim inserts in splay and baffle options
- Reflectors available in painted clear diffuse, white, black and dark bronze

### Quality of light

- Lumen Maintenance: L70 at 60,000 hours
- Color consistency: 2 SDCM
- 90 CRI minimum

### Construction (New Construction)

- Galvanized stamped steel for dry / plaster ceilings.
- Pre-installed telescoping mounting bars (13" - 24")
- Frame accommodates C- channel, black iron, and 3/4" EMT for mounting distances greater than 24" between joists.
- Manufactured from 20 gage galvanized steel construction with rolled edge aperture to guide cutting tools for perfect hole cutting.

**Max ceiling thickness is 2" (51 mm).  
Including PoE frame 4.88" (124 mm).**

### Patented install mounting frame

- Pre-installed mounting bars allow for fast and tool-less install into T-grid and hat channel ceilings
- Close-cut aperture design eliminates an undesired gap between ceiling material and reflector.
- Simple plug-and-play connection between frame and light engine from below the ceiling allows for:
  - Easy upgrades
  - Technology changes
  - Repairs and troubleshooting

## Dimming

### 120/277V

- Advance 0-10V 1% dimming
- Lutron Hi-lume EcoSystem H Series 1% dimming

### 347V

- Integral 347V drivers available for 0-10v (Z10) light engine configurations with standard universal frames.
- For 347V and non-0-10v dimming, order (U) light engine and 347V (3) frame (includes step down transformer). Not compatible with ELV dimming.

## Emergency

Remote ceiling mounted test switch. Accessory ceiling mounting plate available (CAEM6TSCP) for remote mounted test switch. See Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

## Power over Ethernet

**Powered via Philips PoE lighting controller:** complies with FCC rules per article 47 part 15 (Class A) for EMI / RFI (conducted & radiated). PoE lighting controller accessible from below ceiling.

**Rated life:** 60,000 hrs at 70% lumen maintenance based on IES LM-80-08 and TM-21-11.

## Sloped Ceiling Adapter

**Material:** 16 ga. spun aluminum, matte white finish.  
**Installation:** Installs with standard recessed fixture in sloped ceilings without changing the vertical axis of the fixture or its lighting characteristics.

**Perforated Tabs (4):** Provide temporary support for the slope ceiling adapter during installation.

**Locking Screws (4):** Secure slope ceiling adapter to mounting frame of fixture.

**Support:** Fixture must be supported by ceiling structure – not Slope Ceiling Adapter.

## Options and Accessories

**Field Installed Emergency:** Refer to Calculite-Lyte-Profile-EasyLyte Emergency Battery Pack specification sheet for more details.

**CAEM6:** Field install EM6 kit with Bodine BSL6 6W battery pack with self-test/self-diagnostic, mounts to new construction frame. Includes ceiling plate for remote test switch.

**CAEM6TSCP:** Ceiling cover plate for remote mounted EM6 test switch. 1" (25mm) hole, 4 3/8" (109mm) x 2 5/8" (69mm) rectangular. Includes two mounting screws.

## ENERGY STAR® exceptions

- 500lm configurations
- Black & Dark bronze finishes
- Power Over Ethernet drivers

## Labels and Listings

- cULus listed for wet location
- ENERGY STAR® certified
- RoHS certified
- Consult factory for Buy America Compliance

## Warranty



5 year limited warranty  
Visit [Signify.com/warranties](http://Signify.com/warranties) for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

## Finishes



### White

Brightest aperture when illuminated and provides the smoothest transition to most ceilings when off (only available with a white flange).



### Black

Specular finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



### Dark Bronze

Specular finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



### Clear diffuse

Slightly diffuse clear finish that softens the light and reduces the mirror image effect with traditional aluminum specular finishes (only available with a white flange).



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL15935W OCDZ10U

Notes:

Type:

**R61**

MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C6RN  
FIXTURE OR EQUAL LISTED IN LFS**



## AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.



**Standard CRI 80**  
Good color rendering  
and high efficacy



**Standard CRI 90**  
Better color rendering  
and low efficacy



**AccuRender**  
Best color rendering,  
color preference and high efficacy

### Enjoy design flexibility

#### Full range of products and options:

- Available soon in across Lightolier portfolio for application flexibility
- Multiple color temperatures (CCTs) and lumen packages offered

### Promote savings

#### High efficacy, with no penalty:

- Energy efficacy comparable well to conventional 80 CRI
- Up to 25% more energy savings vs competitor 90 CRI<sup>1</sup>
- Helps meet Title 24 requirements

### Show your true colors

#### High color rendering:

- True to life colors to help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- R<sub>a</sub> up to 94 CRI    R<sub>f</sub> up to 92 TM-30
- R<sub>g</sub> up to 67 CRI    R<sub>fr,ht</sub> up to 91 TM-30
- G<sub>s</sub> up to 99 CRI    R<sub>g</sub> up to 100 TM-30
- C<sub>s</sub> up to 94 CRI    R<sub>cs,ht</sub> up to -5% TM-30

### Achieve color balance

#### Best in class color consistency:

- Promote aesthetic harmony in your space with  $\leq 2$  SDCM

1/2" (13 mm)

17/8" (448 mm)  
12 3/4" (311 mm)  
5 3/4" (146 mm)  
17/8" (448 mm)

(13 mm)

Submitted by Lightspec, LLC. - Mid Hudson



6" NEW CONSTRUCTION

Job Name:

DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

Catalog Number:  
6RN-Z6RDL15935WOCZ10U

Type:

R61

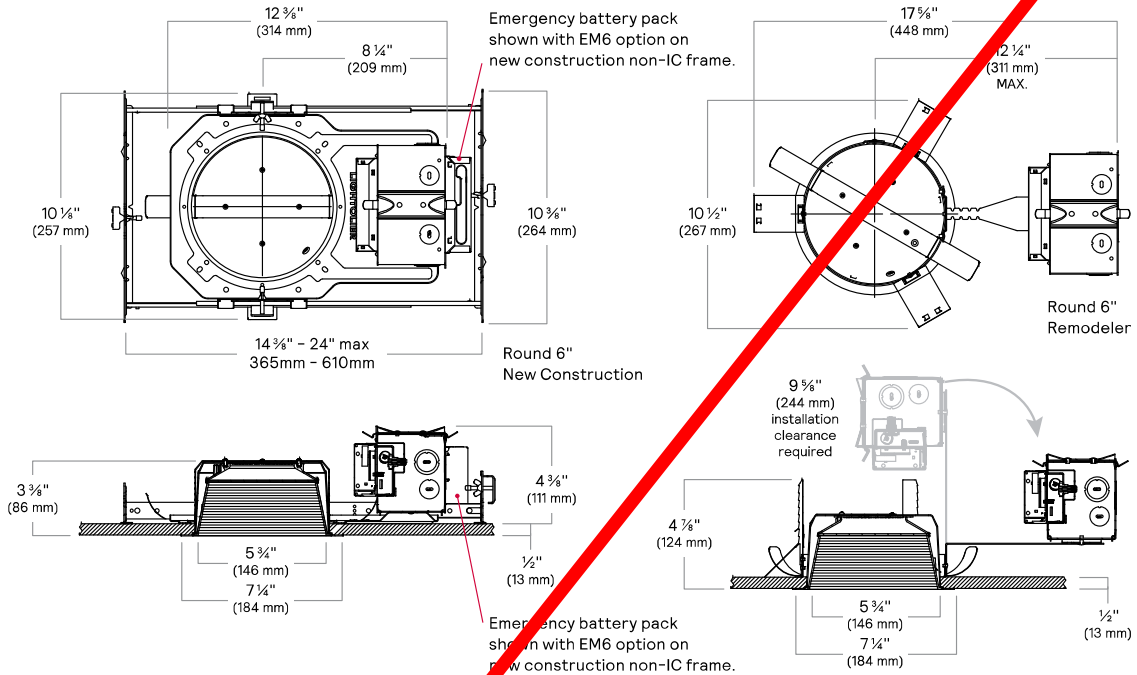
Notes:

MID23-74318

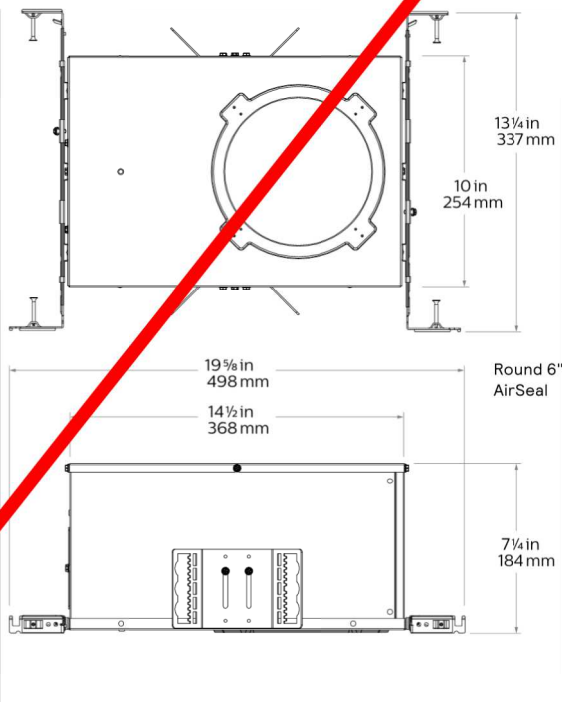
# Z6RDL EasyLyte 6" Round Downlight

PROVIDE LIGHTOLIER C6RN  
FIXTURE OR EQUAL LISTED IN LFS

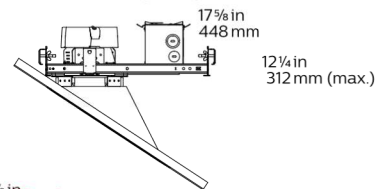
## Dimensions



## AirSeal (A)



## Sloped Ceiling Adapter



## Electrical

All have an input frequency of 50/60Hz

Light engine	Input volts	Input Current	Input Power	LED Drive Current	LED Power	THD Factor @ Max Load	Power Factor @ Max Load
Z6*10*	120V	0.070A	8.4W	0.22A	7.1W	<10%	>0.9
	277V	0.031A	8.6W	0.22A	7.1W	<15%	>0.9
	347V	0.028A	9.9W	0.22A	7.1W	<15%	>0.9
Z6*15*	120V	0.106A	12.8W	0.33A	10.9W	<10%	>0.9
	277V	0.047A	13.1W	0.33A	10.9W	<15%	>0.9
	347V	0.042A	14.5W	0.33A	10.9W	<15%	>0.9
Z6*20*	120V	0.164A	19.6W	0.50A	16.9W	<10%	>0.9
	277V	0.071A	19.6W	0.50A	16.9W	<15%	>0.9
	347V	0.061A	21.1W	0.50A	16.9W	<15%	>0.9
Z6*25*	120V	0.204A	24.5W	0.63A	21.3W	<10%	>0.9
	277V	0.089A	24.5W	0.63A	21.3W	<15%	>0.9
	347V	0.079A	25.7W	0.63A	21.3W	<15%	>0.9
Z6*30*	120V	0.258A	31.0W	0.78A	27.0W	<10%	>0.9
	277V	0.112A	31.0W	0.78A	27.0W	<15%	>0.9
	347V	0.092A	32.1W	0.78A	27.0W	<15%	>0.9
Z6*35*	120V	0.304A	36.5W	0.90A	31.8W	<10%	>0.9
	277V	0.132A	36.5W	0.90A	31.8W	<15%	>0.9
	347V	0.108A	37.4W	0.90A	31.8W	<15%	>0.9



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL15935WOCZ10U

Notes:

Type:

**R61**

MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C6RN  
FIXTURE OR EQUAL LISTED IN LFS**

## Photometry

Reflector	Flux (lm)	Power (W)	Efficacy (lm/W)	CRI	R9	Beam Angle	Field Angle	Spacing Criterion
Open DL - Bronze	593	9.7	61.3	93	59	77°	110°	1.106
Open DL - Black	574	9.7	59.4	93	59	77°	110°	1.101
Open DL - White	917	9.7	94.8	92	53	82°	131°	1.158
Open DL - Clear Diffuse	1006	9.7	104.0	92	58	87°	124°	1.218
Baffle - Black	584	9.7	60.4	93	59	77°	110°	1.108
Baffle - White	1031	9.7	106.6	93	56	84°	135°	1.180
Baffle - Clear Diffuse	832	9.7	86.1	93	58	86°	131°	1.202
Open DL - Bronze	898	13.7	65.5	93	59	77°	110°	1.106
Open DL - Black	869	13.7	63.4	93	59	77°	110°	1.101
Open DL - White	1388	13.7	101.2	92	53	82°	131°	1.158
Open DL - Clear Diffuse	1523	13.7	111.1	92	58	87°	124°	1.218
Baffle - Black	884	13.7	64.5	93	59	77°	110°	1.108
Baffle - White	1561	13.7	113.9	93	56	84°	135°	1.180
Baffle - Clear Diffuse	1260	13.7	91.9	93	58	86°	131°	1.202
Open DL - Bronze	1321	20.2	65.5	93	59	77°	110°	1.106
Open DL - Black	1279	20.2	63.4	93	59	77°	110°	1.101
Open DL - White	2042	20.2	101.2	92	53	82°	131°	1.158
Open DL - Clear Diffuse	2241	20.2	111.1	92	58	87°	124°	1.218
Baffle - Black	1301	20.2	64.5	93	59	77°	110°	1.108
Baffle - White	2297	20.2	113.9	93	56	84°	135°	1.180
Baffle - Clear Diffuse	1854	20.2	91.9	93	58	86°	131°	1.202
Open DL - Bronze	1582	25.1	63.0	93	59	77°	110°	1.106
Open DL - Black	1531	25.1	61.0	93	59	77°	110°	1.101
Open DL - White	2445	25.1	97.4	92	53	82°	131°	1.158
Open DL - Clear Diffuse	2684	25.1	106.9	92	58	87°	124°	1.218
Baffle - Black	1558	25.1	62.0	93	59	77°	110°	1.108
Baffle - White	2750	25.1	109.5	93	56	84°	135°	1.180
Baffle - Clear Diffuse	2220	25.1	88.4	93	58	86°	131°	1.202
Open DL - Bronze	1876	31.2	60.1	93	59	77°	110°	1.106
Open DL - Black	1816	31.2	58.2	93	59	77°	110°	1.101
Open DL - White	2950	30.8	94.1	92	53	82°	131°	1.158
Open DL - Clear Diffuse	3182	31.2	102.0	92	58	87°	124°	1.218
Baffle - Black	1847	31.2	59.2	93	59	77°	110°	1.108
Baffle - White	3261	31.1	104.9	93	56	84°	135°	1.180
Baffle - Clear Diffuse	2633	31.3	84.1	93	58	86°	131°	1.202
Open DL - Bronze	2208	37.1	59.5	93	59	77°	110°	1.106
Open DL - Black	2137	37.1	57.6	93	59	77°	110°	1.101
Open DL - White	3413	37.1	91.9	92	53	82°	131°	1.158
Open DL - Clear Diffuse	3746	37.1	100.9	92	58	87°	124°	1.218
Baffle - Black	2174	37.1	58.6	93	59	77°	110°	1.108
Baffle - White	3839	37.1	103.4	93	56	84°	135°	1.180
Baffle - Clear Diffuse	3099	37.1	83.5	93	58	86°	131°	1.202

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL15935W OCDZ10U

**Type:**  
**R61**

Notes:

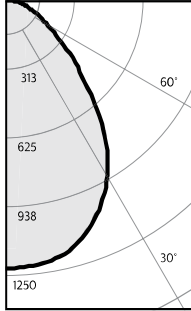
MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C6RN FIXTURE OR EQUAL LISTED IN LFS**

**Downlight, Wide beam, 3300lm Engine, 105lm/W at 31W**

**Candela Curves**



Frame: **6RN**  
Engine/Trim:  
**Z6RDL30935WSWHZ10U**  
Output lumens: 3262 lms  
Input watts: 31.1 W  
CRI: 90 min  
CCT: 3500K  
Beam Angle: 84°  
Spacing Crit.: 1.16

**Zonal summary**

Zone	Lumens	%Luminaire
0-30	1299	39.8%
0-40	2014	61.7%
0-60	2924	89.6%
0-90	3262	100.0%

Angle	Mean CP	Lumens
0	1720	
5	1711	163
10	1692	
15	1647	464
20	1571	
25	1465	672
30	1327	
35	1151	715
40	942	
45	726	564
50	549	
55	381	347
60	261	
65	197	197
70	148	
75	103	110
80	63	
85	27	31
90	0	

**Single unit data**

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	69	5.8'
6'	48	7.0'
7'	35	8.1'
8'	27	9.3'
9'	21	10.4'

\* Beam diameter is where foot-candles drop to 50% of maximum.

**Multiple unit data - RCR 2**

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	138.0	1.38
6'	91.0	0.90
7'	65.0	0.65
8'	54.0	0.54
9'	43.0	0.43

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

**Efficacy: 104.9 lm/w**  
Report#: STMR-674-1

**Coefficients of utilization**

Ceiling	80%				70%		50%		30%		0%
	70	50	30	10	50	10	50	10	50	10	0
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106
	1	111	107	103	100	105	99	100	95	97	93
	2	103	96	90	85	94	84	90	82	87	80
	3	95	86	79	74	84	73	82	72	79	70
	4	88	78	70	64	76	64	74	63	72	62
	5	82	71	63	57	70	57	67	56	66	55
	6	77	64	57	51	64	51	62	50	60	50
	7	71	59	51	46	58	46	57	45	56	45
	8	67	54	47	41	54	41	53	41	51	41
	9	63	50	43	38	50	38	49	38	48	37
	10	59	47	40	35	46	35	45	35	44	34

**Adjustment factors**

Finish  
WH = 100%  
BK = 57%

**Downlight, Wide beam, 2900lm Engine, 94lm/W at 31W**

**Candela Curves**



Frame: **6RN**  
Engine/Trim:  
**Z6RDL30935WOWHZ10U**  
Output lumens: 2900 lms  
Input watts: 30.8 W  
CRI: 90 min  
CCT: 3500K  
Beam Angle: 82°  
Spacing Crit.: 1.16

**Zonal summary**

Zone	Lumens	%Luminaire
0-30	1181	40.7%
0-40	1816	62.6%
0-60	2609	90.0%
0-90	2900	100.0%

Angle	Mean CP	Lumens
0	1597	
5	1587	151
10	1557	
15	1500	424
20	1403	
25	125	607
30	1188	
35	1021	635
40	838	
45	651	501
50	471	
55	319	292
60	217	
65	164	165
70	128	
75	92	98
80	58	
85	25	28
90	0	

**Single unit data**

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	64	5.7'
6'	44	6.8'
7'	33	8.0'
8'	25	9.1'
9'	20	10.3'

\* Beam diameter is where foot-candles drop to 50% of maximum.

**Multiple unit data - RCR 2**

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	123.0	1.37
6'	81.0	0.90
7'	58.0	0.64
8'	48.0	0.53
9'	39.0	0.43

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

**Efficacy: 94.5 lm/w**  
Report#: STMR-675

**Coefficients of utilization**

Ceiling	80%				70%		50%		30%		0%
	70	50	30	10	50	10	50	10	50	10	0
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	105	99	101	96	97	93
	2	103	96	90	85	94	84	91	83	87	81
	3	95	86	79	74	85	73	82	72	79	71
	4	88	78	71	65	77	64	74	64	72	63
	5	82	71	63	57	70	57	68	57	66	56
	6	77	65	57	51	64	51	62	51	61	50
	7	72	60	52	46	59	46	57	46	56	46
	8	67	55	47	42	54	42	53	42	52	42
	9	63	51	43	38	50	38	49	38	48	38
	10	59	47	40	35	47	35	46	35	45	35

**Adjustment factors**

Finish  
CD = 110%  
WH = 100%  
DB = 65%  
BK = 65%

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.  
2. Wattage controlled to within 5%  
3. Correlated Color Temperature: within specs as defined in ANSI/NEMA/ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.



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**Downlighting**  
**EasyLyte**  
**Z6RDL 6" Round downlight**



**EasyLyte downlights** are adaptable, and flexible for your changing project needs. EasyLyte is your best choice without sacrificing ease of installation or product quality. Ideal for use in open office, healthcare, design build, and other light commercial applications.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

Standard luminaire = Frame + Engine/Trim + Accessories (optional)

**PROVIDE LIGHTOLIER C6RN  
 FIXTURE OR EQUAL LISTED IN LFS**

**Frame** example: 6RN

Series	Aperture	Installation	Options
<b>6</b>	<b>R</b>		
6 Uniframe 6-inch	R Round	N New construction (Non-IC) R Remodeler (Non-IC) A AirSeal (IC) <sup>1</sup>	- Universal 120/277/347V <sup>2</sup> LC Chicago Plenum <sup>3</sup> EM6 Emergency 6W Self-Test/Self-Diagnostic (not available for BAC) <sup>3,4</sup>
			3 347V (for non-Z10 configurations) RADIO Integral Interact Pro RF sensor (120/277/347V) (enables wireless connected lighting control) <sup>5,9</sup> requires above ceiling access

**Engine / Trim** example: Z4RDL20935WOCZ10U

Series	Lumen	CRI/CCT	Beam	Step	Reflector	Flange	Dimming	Voltage
<b>Z6RDL</b>			<b>W</b>	<b>O</b>				
Z6RDL EasyLyte 6-inch Round downlight	10 1000lm 15 1500lm 20 2000lm 25 2500lm 30 3000lm 35 3500lm	927 90CRI / 2700K 930 90CRI / 3000K 935 90CRI / 3500K 940 90CRI / 4000K 950 90CRI / 5000K	W White	O Open S Step baffle	WH White BK Black DB Dark Bronze CD Clear Diffuse	- White (matte) BK Black (matte)	Z10 0-10V 1%	U 120/277V 3 347V <sup>7,8</sup> (Z10 only)
							L Lutron LDE1 EcoSystem (not avail. with 500lm) E ELV <sup>6</sup> P Power over Ethernet (PoE)	U 120/277/347V 1 120V E Ethernet 48V DC

**Accessories** (Not currently BAA-compliant. Learn more on page 2)

- SBA** Interact Ready System Bridge Accessory with integral occupancy and daylight sensor (compatible with all 0-10V options, see SBA spec sheet)<sup>9</sup>
- CAEM6** Field installable Bodine SL6 6W battery pack with self-test/self-diagnostic for use with new construction frames, 120-277V
- AMS** ActiLume multi-sensor (optional accessory for PoE configurations)
- CAEM6TSCP** Surface mount cover plate to remote mount test switch for EM6 frame option.

**Sloped Ceiling** example: 7925MD

Series	Degree of Slope
7925 Sloped Ceiling Adapter	MC 5° MF 20°
	MD 10° MG 25°
	ME 15° MH 30°

- There is a 3000lm (30) limit with 6" (6RA) IC housings.
- Universal 120-347V is for 0-10V (Z10) dimming configurations only. For 347V non-Z10 dimming, order 347V (3) frame with (U) light engine/trim.
- Interact Pro (RADIO), Emergency (EM6) and Chicago Plenum (LC) are only available with New construction (N) installs.
- EM6 option compatible with new construction (N) frame only. Order CAEM6TSCP ceiling mounting plate accessory for remote mounted test switch. EM6 option not compatible with Power over Ethernet or 347V configurations.
- Integral Interact Pro RF sensor enables network lighting control; to be specified with 0-10V light engines only.
- ELV (E) dimming is only compatible with 1000lm (10), 1500lm (15), 2000lm (20) configurations. Not compatible with 347V frame options.
- Specify standard UNV frame for use with 347V light engines.
- The 347V light engine voltage option is available only with Z10 dimming option. For other dimming protocols order (U) light engine and 347V (3) frame.
- Requires IRT9015 IR remote & Interact Pro App for commissioning.







**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL25935WOCZ10U

Notes:

Type:

**R63**

MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C6RN  
FIXTURE OR EQUAL LISTED IN LFS**

## Features

### Optics

- Provides a 70° cutoff (physical and reflected)
- Wide beam distribution for general illumination
- Spun aluminum outer reflector with integral flange painted white
- Injection molded plastic trim inserts in splay and baffle options
- Reflectors available in painted clear diffuse, white, black and dark bronze

### Quality of light

- Lumen Maintenance: L70 at 60,000 hours
- Color consistency: 2 SDCM
- 90 CRI minimum

### Construction (New Construction)

- Galvanized stamped steel for dry / plaster ceilings.
- Pre-installed telescoping mounting bars (13" - 24")
- Frame accommodates C- channel, black iron, and 3/4" EMT for mounting distances greater than 24" between joists.
- Manufactured from 20 gage galvanized steel construction with rolled edge aperture to guide cutting tools for perfect hole cutting.

**Max ceiling thickness is 2" (51 mm).  
Including PoE frame 4.88" (124 mm).**

### Patented install mounting frame

- Pre-installed mounting bars allow for fast and tool-less install into T-grid and hat channel ceilings
- Close-cut aperture design eliminates an undesired gap between ceiling material and reflector.
- Simple plug-and-play connection between frame and light engine from below the ceiling allows for:
  - Easy upgrades
  - Technology changes
  - Repairs and troubleshooting

## Dimming

### 120/277V

- Advance 0-10V 1% dimming
- Lutron Hi-lume EcoSystem H Series 1% dimming

### 347V

- Integral 347V drivers available for 0-10v (Z10) light engine configurations with standard universal frames.
- For 347V and non-0-10v dimming, order (U) light engine and 347V (3) frame (includes step down transformer). Not compatible with ELV dimming.

## Emergency

Remote ceiling mounted test switch. Accessory ceiling mounting plate available (CAEM6TSCP) for remote mounted test switch. See Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

## Power over Ethernet

**Powered via Philips PoE lighting controller:** complies with FCC rules per article 47 part 15 (Class A) for EMI / RFI (conducted & radiated). PoE lighting controller accessible from below ceiling.

**Rated life:** 60,000 hrs at 70% lumen maintenance based on IES LM-80-08 and TM-21-11.

## Sloped Ceiling Adapter

**Material:** 16 ga. spun aluminum, matte white finish.  
**Installation:** Installs with standard recessed fixture in sloped ceilings without changing the vertical axis of the fixture or its lighting characteristics.

**Perforated Tabs (4):** Provide temporary support for the slope ceiling adapter during installation.

**Locking Screws (4):** Secure slope ceiling adapter to mounting frame of fixture.

**Support:** Fixture must be supported by ceiling structure – not Slope Ceiling Adapter.

## Options and Accessories

**Field Installed Emergency:** Refer to Calculite-Lyte-Profile-EasyLyte Emergency Battery Pack specification sheet for more details.

**CAEM6:** Field install EM6 kit with Bodine BSL6 6W battery pack with self-test/self-diagnostic, mounts to new construction frame. Includes ceiling plate for remote test switch.

**CAEM6TSCP:** Ceiling cover plate for remote mounted EM6 test switch. 1" (25mm) hole, 4 3/8" (109mm) x 2 5/8" (69mm) rectangular. Includes two mounting screws.

## ENERGY STAR® exceptions

- 500lm configurations
- Black & Dark bronze finishes
- Power Over Ethernet drivers

## Labels and Listings

- cULus listed for wet location
- ENERGY STAR® certified
- RoHS certified
- Consult factory for Buy America Compliance

## Warranty



5 year limited warranty  
Visit [Signify.com/warranties](http://Signify.com/warranties) for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

## Finishes



### White

Brightest aperture when illuminated and provides the smoothest transition to most ceilings when off (only available with a white flange).



### Black

Specular finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



### Dark Bronze

Specular finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



### Clear diffuse

Slightly diffuse clear finish that softens the light and reduces the mirror image effect with traditional aluminum specular finishes (only available with a white flange).





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL25935W OCDZ10U

Notes:

Type:

**R63**

MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C6RN  
FIXTURE OR EQUAL LISTED IN LFS**



## AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.



**Standard CRI 80**  
Good color rendering  
and high efficacy



**Standard CRI 90**  
Better color rendering  
and low efficacy



**AccuRender**  
Best color rendering,  
color preference and high efficacy

### Enjoy design flexibility

#### Full range of products and options:

- Available soon in across Lightolier portfolio for application flexibility
- Multiple color temperatures (CCTs) and lumen packages offered

### Promote savings

#### High efficacy, with no penalty:

- Energy efficacy comparable well to conventional 80 CRI
- Up to 25% more energy savings vs competitor 90 CRI<sup>1</sup>
- Helps meet Title 24 requirements

### Show your true colors

#### High color rendering:

- True to life colors to help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- R<sub>a</sub> up to 94 CRI    R<sub>f</sub> up to 92 TM-30
- R<sub>g</sub> up to 67 CRI    R<sub>fr,ht</sub> up to 91 TM-30
- G<sub>s</sub> up to 99 CRI    R<sub>g</sub> up to 100 TM-30
- C<sub>s</sub> up to 94 CRI    R<sub>cs,ht</sub> up to -5% TM-30

### Achieve color balance

#### Best in class color consistency:

- Promote aesthetic harmony in your space with  $\leq 2$  SDCM

1/2" (13 mm)

184 mm 1/2" (114 mm) 5 3/4" (146 mm)

(13)

Submitted by Lightspec, LLC. - Mid Hudson



6" NEW CONSTRUCTION

Job Name:

DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

Catalog Number:  
6RN-Z6RDL25935WOCZ10U

Type:

R63

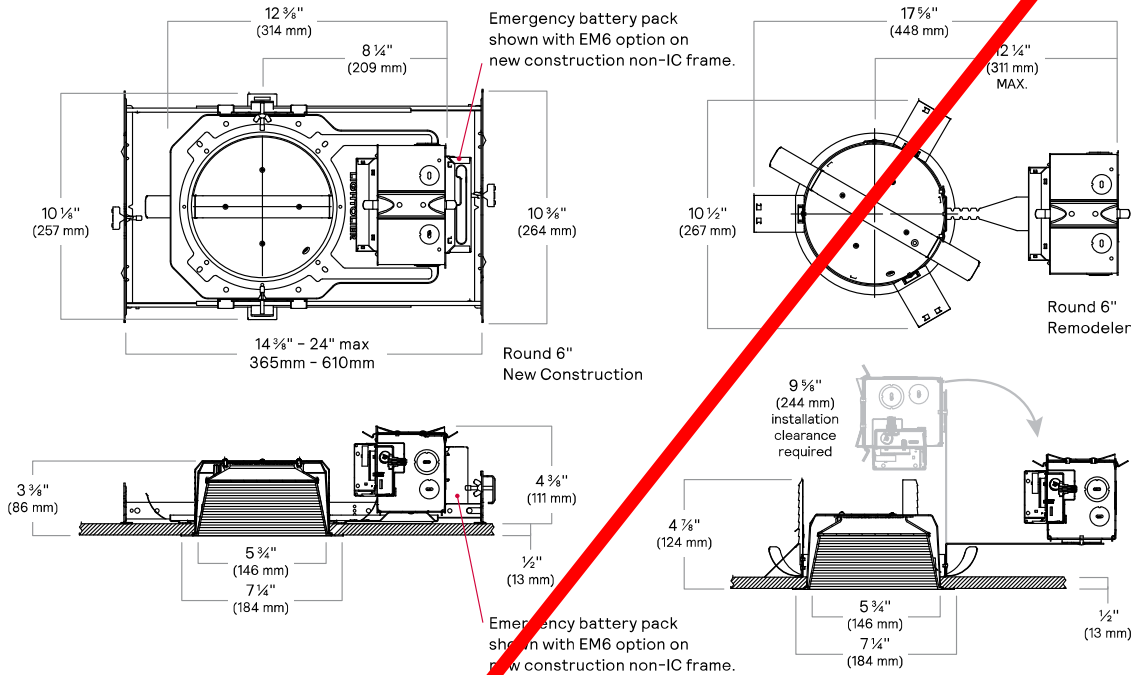
Notes:

MID23-74318

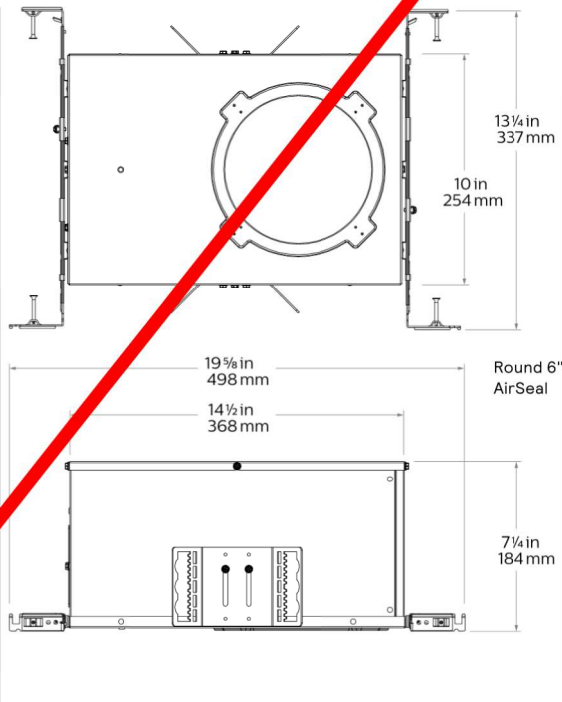
# Z6RDL EasyLyte 6" Round Downlight

PROVIDE LIGHTOLIER C6RN FIXTURE OR EQUAL LISTED IN LFS

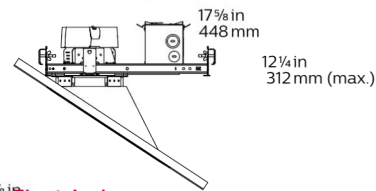
## Dimensions



## AirSeal (A)



## Sloped Ceiling Adapter



## Electrical

All have an input frequency of 50/60Hz

Light engine	Input volts	Input Current	Input Power	LED Drive Current	LED Power	THD Factor @ Max Load	Power Factor @ Max Load
Z6*10*	120V	0.070A	8.4W	0.22A	7.1W	<10%	>0.9
	277V	0.031A	8.6W	0.22A	7.1W	<15%	>0.9
	347V	0.028A	9.9W	0.22A	7.1W	<15%	>0.9
Z6*15*	120V	0.106A	12.8W	0.33A	10.9W	<10%	>0.9
	277V	0.047A	13.1W	0.33A	10.9W	<15%	>0.9
	347V	0.042A	14.5W	0.33A	10.9W	<15%	>0.9
Z6*20*	120V	0.164A	19.6W	0.50A	16.9W	<10%	>0.9
	277V	0.071A	19.6W	0.50A	16.9W	<15%	>0.9
	347V	0.061A	21.1W	0.50A	16.9W	<15%	>0.9
Z6*25*	120V	0.204A	24.5W	0.50A	21.3W	<10%	>0.9
	277V	0.089A	24.5W	0.50A	21.3W	<15%	>0.9
	347V	0.079A	25.7W	0.63A	21.3W	<15%	>0.9
Z6*30*	120V	0.258A	31.0W	0.78A	27.0W	<10%	>0.9
	277V	0.112A	31.0W	0.78A	27.0W	<15%	>0.9
	347V	0.092A	32.1W	0.78A	27.0W	<15%	>0.9
Z6*35*	120V	0.304A	36.5W	0.90A	31.8W	<10%	>0.9
	277V	0.132A	36.5W	0.90A	31.8W	<15%	>0.9
	347V	0.108A	37.4W	0.90A	31.8W	<15%	>0.9



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL25935WOCZ10U

Notes:

Type:

**R63**

MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C6RN  
FIXTURE OR EQUAL LISTED IN LFS**

## Photometry

Reflector	Flux (lm)	Power (W)	Efficacy (lm/W)	CRI	R9	Beam Angle	Field Angle	Spacing Criterion
Open DL - Bronze	593	9.7	61.3	93	59	77°	110°	1.106
Open DL - Black	574	9.7	59.4	93	59	77°	110°	1.101
Open DL - White	917	9.7	94.8	92	53	82°	131°	1.158
Open DL - Clear Diffuse	1006	9.7	104.0	92	58	87°	124°	1.218
Baffle - Black	584	9.7	60.4	93	59	77°	110°	1.108
Baffle - White	1031	9.7	106.6	93	56	84°	135°	1.180
Baffle - Clear Diffuse	832	9.7	86.1	93	58	86°	131°	1.202
Open DL - Bronze	898	13.7	65.5	93	59	77°	110°	1.106
Open DL - Black	869	13.7	63.4	93	59	77°	110°	1.101
Open DL - White	1388	13.7	101.2	92	53	82°	131°	1.158
Open DL - Clear Diffuse	1523	13.7	111.1	92	58	87°	124°	1.218
Baffle - Black	884	13.7	64.5	93	59	77°	110°	1.108
Baffle - White	1561	13.7	113.9	93	56	84°	135°	1.180
Baffle - Clear Diffuse	1260	13.7	91.9	93	58	86°	131°	1.202
Open DL - Bronze	1321	20.2	65.5	93	59	77°	110°	1.106
Open DL - Black	1279	20.2	63.4	93	59	77°	110°	1.101
Open DL - White	2042	20.2	101.2	92	53	82°	131°	1.158
Open DL - Clear Diffuse	2241	20.2	111.1	92	58	87°	124°	1.218
Baffle - Black	1301	20.2	64.5	93	59	77°	110°	1.108
Baffle - White	2297	20.2	113.9	93	56	84°	135°	1.180
Baffle - Clear Diffuse	1854	20.2	91.9	93	58	86°	131°	1.202
Open DL - Bronze	1582	25.1	63.0	93	59	77°	110°	1.106
Open DL - Black	1531	25.1	61.0	93	59	77°	110°	1.101
Open DL - White	2445	25.1	97.4	92	53	82°	131°	1.158
Open DL - Clear Diffuse	2684	25.1	106.9	92	58	87°	124°	1.218
Baffle - Black	1558	25.1	62.0	93	59	77°	110°	1.108
Baffle - White	2750	25.1	109.5	93	56	84°	135°	1.180
Baffle - Clear Diffuse	2220	25.1	88.4	93	58	86°	131°	1.202
Open DL - Bronze	1876	31.2	60.1	93	59	77°	110°	1.106
Open DL - Black	1816	31.2	58.2	93	59	77°	110°	1.101
Open DL - White	2950	30.8	94.1	92	53	82°	131°	1.158
Open DL - Clear Diffuse	3182	31.2	102.0	92	58	87°	124°	1.218
Baffle - Black	1847	31.2	59.2	93	59	77°	110°	1.108
Baffle - White	3261	31.1	104.9	93	56	84°	135°	1.180
Baffle - Clear Diffuse	2633	31.3	84.1	93	58	86°	131°	1.202
Open DL - Bronze	2208	37.1	59.5	93	59	77°	110°	1.106
Open DL - Black	2137	37.1	57.6	93	59	77°	110°	1.101
Open DL - White	3413	37.1	91.9	92	53	82°	131°	1.158
Open DL - Clear Diffuse	3746	37.1	100.9	92	58	87°	124°	1.218
Baffle - Black	2174	37.1	58.6	93	59	77°	110°	1.108
Baffle - White	3839	37.1	103.4	93	56	84°	135°	1.180
Baffle - Clear Diffuse	3099	37.1	83.5	93	58	86°	131°	1.202

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL25935WOCZ10U

**Type:**  
**R63**

Notes:

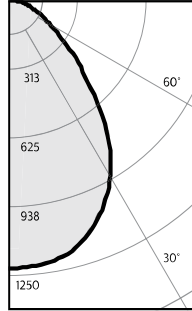
MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C6RN FIXTURE OR EQUAL LISTED IN LFS**

**Downlight, Wide beam, 3300lm Engine, 105lm/W at 31W**

**Candela Curves**



Frame: **6RN**  
Engine/Trim:  
**Z6RDL30935WSWHZ10U**

Output lumens: 3262 lms  
Input watts: 31.1 W  
CRI: 90 min  
CCT: 3500K  
Beam Angle: 84°  
Spacing Crit.: 1.16

**Zonal summary**

Zone	Lumens	%Luminaire
0-30	1299	39.8%
0-40	2014	61.7%
0-60	2924	89.6%
0-90	3262	100.0%

Angle	Mean CP	Lumens
0	1720	
5	1711	163
10	1692	
15	1647	464
20	1571	
25	1465	672
30	1327	
35	1151	715
40	942	
45	726	564
50	549	
55	381	347
60	261	
65	197	197
70	148	
75	103	110
80	63	
85	27	31
90	0	

**Single unit data**

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	69	5.8'
6'	48	7.0'
7'	35	8.1'
8'	27	9.3'
9'	21	10.4'

\* Beam diameter is where foot-candles drop to 50% of maximum.

**Multiple unit data - RCR 2**

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	138.0	1.38
6'	91.0	0.90
7'	65.0	0.65
8'	54.0	0.54
9'	43.0	0.43

38" x 38" x 10" Room, Workplane 2.5' above floor, 80/50/20% Reflectances

**Efficacy: 104.9 lm/w**  
Report#: STMR-674-1

**Coefficients of utilization**

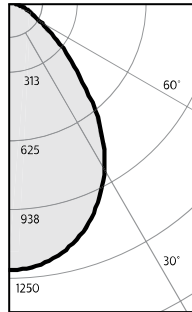
Ceiling	80%				70%		50%		30%		0%
	70	50	30	10	50	10	50	10	50	10	0
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106
	1	111	107	103	100	105	99	100	95	97	93
	2	103	96	90	85	94	84	90	82	87	80
	3	95	86	79	74	84	73	82	72	79	70
	4	88	78	70	64	76	64	74	63	72	62
	5	82	71	63	57	70	57	67	56	66	55
	6	77	65	57	51	64	51	62	50	60	50
	7	71	59	51	46	58	46	57	45	56	45
	8	67	54	47	41	54	41	53	41	51	41
	9	63	50	43	38	50	38	49	38	48	37
	10	59	47	40	35	46	35	45	35	44	34

**Adjustment factors**

Finish  
WH = 100%  
BK = 57%

**Downlight, Wide beam, 2900lm Engine, 94lm/W at 31W**

**Candela Curves**



Frame: **6RN**  
Engine/Trim:  
**Z6RDL30935WOWHZ10U**

Output lumens: 2900 lms  
Input watts: 30.8 W  
CRI: 90 min  
CCT: 3500K  
Beam Angle: 82°  
Spacing Crit.: 1.16

**Zonal summary**

Zone	Lumens	%Luminaire
0-30	1181	40.7%
0-40	1816	62.6%
0-60	2609	90.0%
0-90	2900	100.0%

Angle	Mean CP	Lumens
0	1597	
5	1587	151
10	1557	
15	1500	424
20	1403	
25	125	607
30	1188	
35	1021	635
40	838	
45	651	501
50	471	
55	319	292
60	217	
65	164	165
70	128	
75	92	98
80	58	
85	25	28
90	0	

**Single unit data**

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	64	5.7'
6'	44	6.8'
7'	33	8.0'
8'	25	9.1'
9'	20	10.3'

\* Beam diameter is where foot-candles drop to 50% of maximum.

**Multiple unit data - RCR 2**

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	123.0	1.37
6'	81.0	0.90
7'	58.0	0.64
8'	48.0	0.53
9'	39.0	0.43

38" x 38" x 10" Room, Workplane 2.5' above floor, 80/50/20% Reflectances

**Efficacy: 94.5 lm/w**  
Report#: STMR-675

**Coefficients of utilization**

Ceiling	80%				70%		50%		30%		0%
	70	50	30	10	50	10	50	10	50	10	0
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	116	116	111	111	106	106	
	1	111	107	103	100	105	99	101	96	97	
	2	103	96	90	85	94	84	91	83	87	
	3	95	86	79	74	85	73	82	72	79	
	4	88	78	71	65	77	64	74	64	72	
	5	82	71	63	57	70	57	68	57	66	
	6	77	65	57	51	64	51	62	51	61	
	7	72	60	52	46	59	46	57	46	56	
	8	67	55	47	42	54	42	53	42	52	
	9	63	51	43	38	50	38	49	38	48	
	10	59	47	40	35	47	35	46	35	45	

**Adjustment factors**

Finish  
CD = 110%  
WH = 100%  
DB = 65%  
BK = 65%

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.  
2. Wattage controlled to within 5%  
3. Correlated Color Temperature: within specs as defined in ANSI/NEMA-ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.



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**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL35935WOCZ10U

**Type:**  
**R64**

Notes:

MID23-74318

**LIGHTOLIER**  
by Signify

**Downlighting**

EasyLyte

**4-INCH DOWNLIGHT**



**EasyLyte downlights** are adaptable, and flexible for your changing project needs. EasyLyte is your best choice without sacrificing ease of installation or product quality. Ideal for use in open office, healthcare, design build, and other light commercial applications.

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

Standard luminaire = Frame + Engine/Trim + Accessories (optional)

**PROVIDE LIGHTOLIER C4RN  
FIXTURE OR EQUAL LISTED IN LFS**

**Frame**

example: 6RN

Series	Aperture	Installation	Options
<b>6</b>	<b>R</b>		
6 Uniframe 6-inch	R Round	<b>N</b> New construction (Non-IC) R Remodeler (Non-IC) A AirSeal (IC) <sup>1</sup>	- Universal 120/277/347V <sup>2</sup> LC Chicago Plenum <sup>3</sup> EM6 Emergency 6W Self-Test/Self-Diagnostic (not available for BAC) <sup>3,4</sup>
			3 347V (for non-Z10 configurations) <b>RADIO</b> Integral Interact Pro RF sensor (120/277/347V) (enables wireless connected lighting control) <sup>9,5</sup> requires above ceiling access

**Engine / Trim**

example: Z4RDL20935WOCZ10U

Series	Lumen	CRI/CCT	Beam	Steps	Reflector	Flange	Dimming	Voltage
<b>Z6RDL</b>			<b>W</b>	<b>O</b>				
Z6RDL EasyLyte 6-inch Round downlight	10 1000lm 15 1500lm 20 2000lm 25 2500lm 30 3000lm <b>35 3500lm</b>	927 90CRI / 2700K 930 90CRI / 3000K <b>935 90CRI / 3500K</b> 940 90CRI / 4000K 950 90CRI / 5000K	W White	O Open S Step baffle	WH White BK Black DB Dark Bronze <b>CD Clear Diffuse</b>	- White (matte) BK Black (matte)	<b>Z10 0-10V 1%</b>	<b>U 120/277V</b> 3 347V <sup>7,8</sup> (Z10 only)
							L Lutron LDE1 EcoSystem (not avail. with 500lm) E ELV <sup>6</sup>	U 120/277/347V 1 120V
							P Power over Ethernet (PoE)	E Ethernet 48V DC

**Accessories** (Not currently BAA-compliant. Learn more on page 2)

- SBA** Interact Ready System Bridge Accessory with integral occupancy and daylight sensor (compatible with all 0-10V options, see SBA spec sheet)<sup>9</sup>
- CAEM6** Field installable Bodine SL6 6W battery pack with self-test/self-diagnostic for use with new construction frames, 120-277V
- AMS** ActiLume multi-sensor (optional accessory for PoE configurations)
- CAEM6TSCP** Surface mount cover plate to remote mount test switch for EM6 frame option.

**Sloped Ceiling**

example: 7925MD

Series	Degree of Slope
7925 Sloped Ceiling Adapter	MC 5°
	MD 10°
	ME 15°
	MF 20°
	MG 25°
	MH 30°

- There is a 3000lm (30) limit with 6" (6RA) IC housings.
- Universal 120-347V is for 0-10V (Z10) dimming configurations only. For 347V non-Z10 dimming, order 347V (3) frame with (U) light engine/trim.
- Interact Pro (RADIO), Emergency (EM6) and Chicago Plenum (LC) are only available with New construction (N) installs.
- EM6 option compatible with new construction (N) frame only. Order CAEM6TSCP ceiling mounting plate accessory for remote mounted test switch. EM6 option not compatible with Power over Ethernet or 347V configurations.
- Integral Interact Pro RF sensor enables network lighting control; to be specified with 0-10V light engines only.
- ELV (E) dimming is only compatible with 1000lm (10), 1500lm (15), 2000lm (20) configurations. Not compatible with 347V frame options.
- Specify standard UNV frame for use with 347V light engines.
- The 347V light engine voltage option is available only with Z10 dimming option. For other dimming protocols order (U) light engine and 347V (3) frame.
- Requires IRT9015 IR remote & Interact Pro App for commissioning.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL35935WOCZ10U

Notes:

Type:

**R64**

MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C4RN  
FIXTURE OR EQUAL LISTED IN LFS**

## Features

### Optics

- Provides a 70° cutoff (physical and reflected)
- Wide beam distribution for general illumination
- Spun aluminum outer reflector with integral flange painted white
- Injection molded plastic trim inserts in splay and baffle options
- Reflectors available in painted clear diffuse, white, black and dark bronze

### Quality of light

- Lumen Maintenance: L70 at 60,000 hours
- Color consistency: 2 SDCM
- 90 CRI minimum

### Construction (New Construction)

- Galvanized stamped steel for dry / plaster ceilings.
- Pre-installed telescoping mounting bars (13" - 24")
- Frame accommodates C- channel, black iron, and 3/4" EMT for mounting distances greater than 24" between joists.
- Manufactured from 20 gage galvanized steel construction with rolled edge aperture to guide cutting tools for perfect hole cutting.

**Max ceiling thickness is 2" (51 mm).  
Including PoE frame 4.88" (124 mm).**

### Patented install mounting frame

- Pre-installed mounting bars allow for fast and tool-less install into T-grid and hat channel ceilings
- Close-cut aperture design eliminates an undesired gap between ceiling material and reflector.
- Simple plug-and-play connection between frame and light engine from below the ceiling allows for:
  - Easy upgrades
  - Technology changes
  - Repairs and troubleshooting

## Dimming

### 120/277V

- Advance 0-10V 1% dimming
- Lutron Hi-lume EcoSystem H Series 1% dimming

### 347V

- Integral 347V drivers available for 0-10v (Z10) light engine configurations with standard universal frames.
- For 347V and non-0-10v dimming, order (U) light engine and 347V (3) frame (includes step down transformer). Not compatible with ELV dimming.

## Emergency

Remote ceiling mounted test switch. Accessory ceiling mounting plate available (CAEM6TSCP) for remote mounted test switch. See Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

## Power over Ethernet

**Powered via Philips PoE lighting controller:** complies with FCC rules per article 47 part 15 (Class A) for EMI / RFI (conducted & radiated). PoE lighting controller accessible from below ceiling.

**Rated life:** 60,000 hrs at 70% lumen maintenance based on IES LM-80-08 and TM-21-11.

## Sloped Ceiling Adapter

**Material:** 16 ga. spun aluminum, matte white finish.  
**Installation:** Installs with standard recessed fixture in sloped ceilings without changing the vertical axis of the fixture or its lighting characteristics.

**Perforated Tabs (4):** Provide temporary support for the slope ceiling adapter during installation.

**Locking Screws (4):** Secure slope ceiling adapter to mounting frame of fixture.

**Support:** Fixture must be supported by ceiling structure – not Slope Ceiling Adapter.

## Options and Accessories

**Field Installed Emergency:** Refer to Calculite-Lyte-Profile-EasyLyte Emergency Battery Pack specification sheet for more details.

**CAEM6:** Field install EM6 kit with Bodine BSL6 6W battery pack with self-test/self-diagnostic, mounts to new construction frame. Includes ceiling plate for remote test switch.

**CAEM6TSCP:** Ceiling cover plate for remote mounted R64 test switch. 1" (25mm) hole, 4 3/4" (109mm) x 2 5/8" (69mm) rectangular. Includes two mounting screws.

## ENERGY STAR® exceptions

- 500lm configurations
- Black & Dark bronze finishes
- Power Over Ethernet drivers

## Labels and Listings

- cULus listed for wet location
- ENERGY STAR® certified
- RoHS certified
- Consult factory for Buy America Compliance

## Warranty



5 year limited warranty  
Visit [Signify.com/warranties](http://Signify.com/warranties) for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

## Finishes



### White

Brightest aperture when illuminated and provides the smoothest transition to most ceilings when off (only available with a white flange).



### Black

Specular finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



### Dark Bronze

Specular finish that provides the lowest aperture brightness possible and reduces source identification in a ceiling significantly.



### Clear diffuse

Slightly diffuse clear finish that softens the light and reduces the mirror image effect with traditional aluminum specular finishes (only available with a white flange).





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL35935W OCDZ10U

Notes:

Type:

**R64**

MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C4RN  
FIXTURE OR EQUAL LISTED IN LFS**



## AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.



**Standard CRI 80**  
Good color rendering  
and high efficacy



**Standard CRI 90**  
Better color rendering  
and low efficacy



**AccuRender**  
Best color rendering,  
color preference and high efficacy

### Enjoy design flexibility

#### Full range of products and options:

- Available soon in across Lightolier portfolio for application flexibility
- Multiple color temperatures (CCTs) and lumen packages offered

### Promote savings

#### High efficacy, with no penalty:

- Energy efficacy comparable well to conventional 80 CRI
- Up to 25% more energy savings vs competitor 90 CRI<sup>1</sup>
- Helps meet Title 24 requirements

### Show your true colors

#### High color rendering:

- True to life colors to help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- R<sub>a</sub> up to 94 CRI    R<sub>f</sub> up to 92 TM-30
- R<sub>g</sub> up to 67 CRI    R<sub>fr,ht</sub> up to 91 TM-30
- G<sub>s</sub> up to 99 CRI    R<sub>g</sub> up to 100 TM-30
- C<sub>s</sub> up to 94 CRI    R<sub>cs,ht</sub> up to -5% TM-30

### Achieve color balance

#### Best in class color consistency:

- Promote aesthetic harmony in your space with  $\leq 2$  SDCM



1/2" (13 mm)

1/2" (114 mm)  
5 3/4" (146 mm)

(13)

Submitted by Lightspec, LLC. - Mid Hudson



6" NEW CONSTRUCTION

Job Name:

DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

Catalog Number:

6RN-Z6RDL35935WOCZ10U

Type:

R64

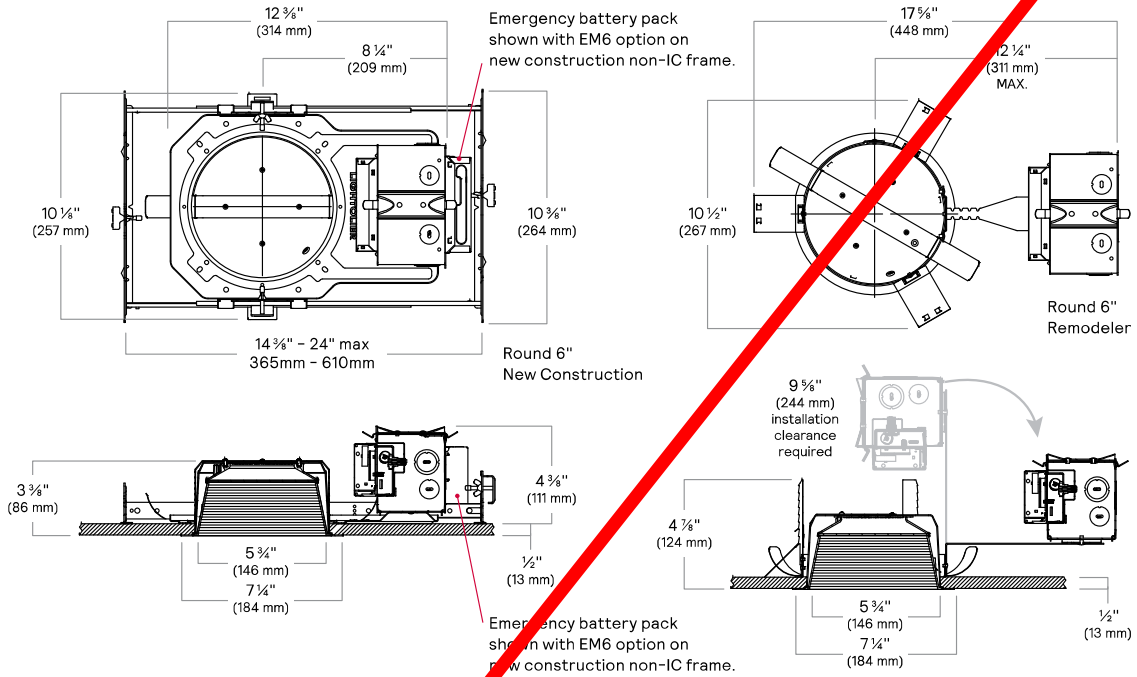
Notes:

MID23-74318

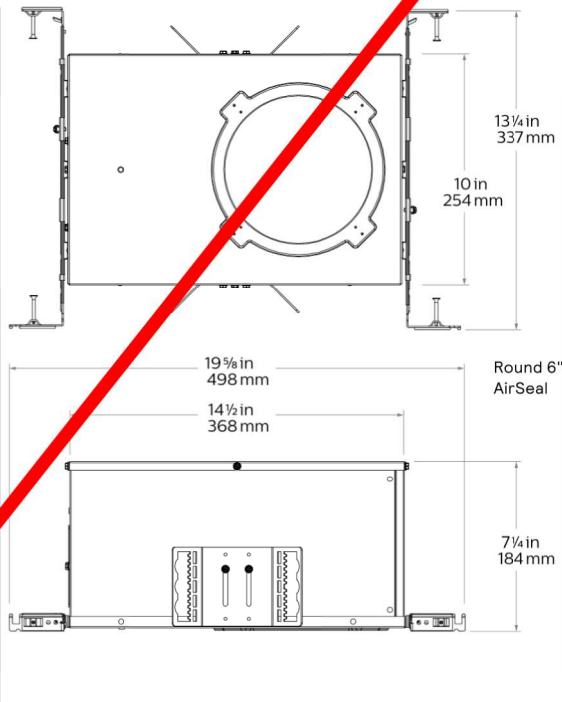
# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C4RN FIXTURE OR EQUAL LISTED IN LFS**

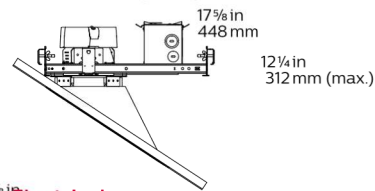
## Dimensions



## AirSeal (A)



## Sloped Ceiling Adapter



## Electrical

All have an input frequency of 50/60Hz

Light engine	Input volts	Input Current	Input Power	LED Drive Current	LED Power	THD Factor @ Max Load	Power Factor @ Max Load
Z6*10*	120V	0.070A	8.4W	0.22A	7.1W	<10%	>0.9
	277V	0.031A	8.6W	0.22A	7.1W	<15%	>0.9
	347V	0.028A	9.9W	0.22A	7.1W	<15%	>0.9
Z6*15*	120V	0.106A	12.8W	0.33A	10.9W	<10%	>0.9
	277V	0.047A	13.1W	0.33A	10.9W	<15%	>0.9
	347V	0.042A	14.5W	0.33A	10.9W	<15%	>0.9
Z6*20*	120V	0.164A	19.6W	0.50A	16.9W	<10%	>0.9
	277V	0.071A	19.6W	0.50A	16.9W	<15%	>0.9
	347V	0.061A	21.1W	0.50A	16.9W	<15%	>0.9
Z6*25*	120V	0.204A	24.5W	0.63A	21.3W	<10%	>0.9
	277V	0.089A	24.5W	0.63A	21.3W	<15%	>0.9
	347V	0.079A	25.7W	0.63A	21.3W	<15%	>0.9
Z6*30*	120V	0.258A	31.0W	0.78A	27.0W	<10%	>0.9
	277V	0.112A	31.0W	0.78A	27.0W	<15%	>0.9
	347V	0.092A	32.1W	0.78A	27.0W	<15%	>0.9
Z6*35*	120V	0.304A	36.5W	0.90A	31.8W	<10%	>0.9
	277V	0.132A	36.5W	0.90A	31.8W	<15%	>0.9
	347V	0.108A	37.4W	0.90A	31.8W	<15%	>0.9



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL35935WOCZ10U

Notes:

Type:

**R64**

MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C4RN  
FIXTURE OR EQUAL LISTED IN LFS**

## Photometry

Reflector	Flux (lm)	Power (W)	Efficacy (lm/W)	CRI	R9	Beam Angle	Field Angle	Spacing Criterion
Open DL - Bronze	593	9.7	61.3	93	59	77°	110°	1.106
Open DL - Black	574	9.7	59.4	93	59	77°	110°	1.101
Open DL - White	917	9.7	94.8	92	53	82°	131°	1.158
Open DL - Clear Diffuse	1006	9.7	104.0	92	58	87°	124°	1.218
Baffle - Black	584	9.7	60.4	93	59	77°	110°	1.108
Baffle - White	1031	9.7	106.6	93	56	84°	135°	1.180
Baffle - Clear Diffuse	832	9.7	86.1	93	58	86°	131°	1.202
Open DL - Bronze	898	13.7	65.5	93	59	77°	110°	1.106
Open DL - Black	869	13.7	63.4	93	59	77°	110°	1.101
Open DL - White	1388	13.7	101.2	92	53	82°	131°	1.158
Open DL - Clear Diffuse	1523	13.7	111.1	92	58	87°	124°	1.218
Baffle - Black	884	13.7	64.5	93	59	77°	110°	1.108
Baffle - White	1561	13.7	113.9	93	56	84°	135°	1.180
Baffle - Clear Diffuse	1260	13.7	91.9	93	58	86°	131°	1.202
Open DL - Bronze	1321	20.2	65.5	93	59	77°	110°	1.106
Open DL - Black	1279	20.2	63.4	93	59	77°	110°	1.101
Open DL - White	2042	20.2	101.2	92	53	82°	131°	1.158
Open DL - Clear Diffuse	2241	20.2	111.1	92	58	87°	124°	1.218
Baffle - Black	1301	20.2	64.5	93	59	77°	110°	1.108
Baffle - White	2297	20.2	113.9	93	56	84°	135°	1.180
Baffle - Clear Diffuse	1854	20.2	91.9	93	58	86°	131°	1.202
Open DL - Bronze	1582	25.1	63.0	93	59	77°	110°	1.106
Open DL - Black	1531	25.1	61.0	93	59	77°	110°	1.101
Open DL - White	2445	25.1	97.4	92	53	82°	131°	1.158
Open DL - Clear Diffuse	2684	25.1	106.9	92	58	87°	124°	1.218
Baffle - Black	1558	25.1	62.0	93	59	77°	110°	1.108
Baffle - White	2750	25.1	109.5	93	56	84°	135°	1.180
Baffle - Clear Diffuse	2220	25.1	88.4	93	58	86°	131°	1.202
Open DL - Bronze	1876	31.2	60.1	93	59	77°	110°	1.106
Open DL - Black	1816	31.2	58.2	93	59	77°	110°	1.101
Open DL - White	2950	30.8	94.1	92	53	82°	131°	1.158
Open DL - Clear Diffuse	3182	31.2	102.0	92	58	87°	124°	1.218
Baffle - Black	1847	31.2	59.2	93	59	77°	110°	1.108
Baffle - White	3261	31.1	104.9	93	56	84°	135°	1.180
Baffle - Clear Diffuse	2633	31.3	84.1	93	58	86°	131°	1.202
Open DL - Bronze	2208	37.1	59.5	93	59	77°	110°	1.106
Open DL - Black	2137	37.1	57.6	93	59	77°	110°	1.101
Open DL - White	3413	37.1	91.9	92	53	82°	131°	1.158
Open DL - Clear Diffuse	3746	37.1	100.9	92	58	87°	124°	1.218
Baffle - Black	2174	37.1	58.6	93	59	77°	110°	1.108
Baffle - White	3839	37.1	103.4	93	56	84°	135°	1.180
Baffle - Clear Diffuse	3099	37.1	83.5	93	58	86°	131°	1.202

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI\_NEMA\_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
6RN-Z6RDL35935WOCZ10U

**Type:**  
**R64**

Notes:

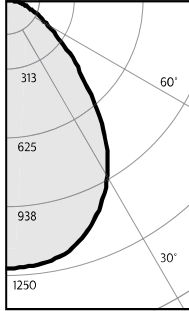
MID23-74318

# Z6RDL EasyLyte 6" Round Downlight

**PROVIDE LIGHTOLIER C4RN FIXTURE OR EQUAL LISTED IN LFS**

**Downlight, Wide beam, 3300lm Engine, 105lm/W at 31W**

**Candela Curves**



Frame: **6RN**  
Engine/Trim:  
**Z6RDL30935WSWHZ10U**

Output lumens: 3262 lms  
Input watts: 31.1 W  
CRI: 90 min  
CCT: 3500K  
Beam Angle: 84°  
Spacing Crit.: 1.16

**Zonal summary**

Zone	Lumens	%Luminaire
0-30	1299	39.8%
0-40	2014	61.7%
0-60	2924	89.6%
0-90	3262	100.0%

Angle	Mean CP	Lumens
0	1720	
5	1711	163
10	1692	
15	1647	464
20	1571	
25	1465	672
30	1327	
35	1151	715
40	942	
45	726	564
50	549	
55	381	347
60	261	
65	197	197
70	148	
75	103	110
80	63	
85	27	31
90	0	

**Single unit data**

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	69	5.8'
6'	48	7.0'
7'	35	8.1'
8'	27	9.3'
9'	21	10.4'

\* Beam diameter is where foot-candles drop to 50% of maximum.

**Multiple unit data - RCR 2**

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	138.0	1.38
6'	91.0	0.90
7'	65.0	0.65
8'	54.0	0.54
9'	43.0	0.43

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

**Efficacy: 104.9 lm/w**  
Report#: STMR-674-1

**Coefficients of utilization**

Ceiling	80%				70%		50%		30%		0%
	70	50	30	10	50	10	50	10	50	10	0
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106
	1	111	107	103	100	105	99	100	95	97	93
	2	103	96	90	85	94	84	90	82	87	80
	3	95	86	79	74	84	73	82	72	79	70
	4	88	78	70	64	76	64	74	63	72	62
	5	82	71	63	57	70	57	67	56	66	55
	6	77	65	57	51	64	51	62	50	60	50
	7	71	59	51	46	58	46	57	45	56	45
	8	67	54	47	41	54	41	53	41	51	41
	9	63	50	43	38	50	38	49	38	48	37
	10	59	47	40	35	46	35	45	35	44	34

**Adjustment factors**

Finish  
WH = 100%  
BK = 57%

**Downlight, Wide beam, 2900lm Engine, 94lm/W at 31W**

**Candela Curves**



Frame: **6RN**  
Engine/Trim:  
**Z6RDL30935WOWHZ10U**

Output lumens: 2900 lms  
Input watts: 30.8 W  
CRI: 90 min  
CCT: 3500K  
Beam Angle: 82°  
Spacing Crit.: 1.16

**Zonal summary**

Zone	Lumens	%Luminaire
0-30	1181	40.7%
0-40	1816	62.6%
0-60	2609	90.0%
0-90	2900	100.0%

Angle	Mean CP	Lumens
0	1597	
5	1587	151
10	1557	
15	1500	424
20	1403	
25	125	607
30	1188	
35	1021	635
40	838	
45	651	501
50	471	
55	319	292
60	217	
65	164	165
70	128	
75	92	98
80	58	
85	25	28
90	0	

**Single unit data**

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	64	5.7'
6'	44	6.8'
7'	33	8.0'
8'	25	9.1'
9'	20	10.3'

\* Beam diameter is where foot-candles drop to 50% of maximum.

**Multiple unit data - RCR 2**

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	123.0	1.37
6'	81.0	0.90
7'	58.0	0.64
8'	48.0	0.53
9'	39.0	0.43

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

**Efficacy: 94.5 lm/w**  
Report#: STMR-675

**Coefficients of utilization**

Ceiling	80%				70%		50%		30%		0%
	70	50	30	10	50	10	50	10	50	10	0
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	116	116	111	111	106	106	100
	1	111	107	103	100	105	99	101	96	97	93
	2	103	96	90	85	94	84	91	83	87	81
	3	95	86	79	74	85	73	82	72	79	71
	4	88	78	71	65	77	64	74	64	72	63
	5	82	71	63	57	70	57	68	57	66	56
	6	77	65	57	51	64	51	62	51	61	50
	7	72	60	52	46	59	46	57	46	56	46
	8	67	55	47	42	54	42	53	42	52	42
	9	63	51	43	38	50	38	49	38	48	38
	10	59	47	40	35	47	35	46	35	45	35

**Adjustment factors**

Finish  
CD = 110%  
WH = 100%  
DB = 65%  
BK = 65%

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.  
2. Wattage controlled to within 5%  
3. Correlated Color Temperature: within specs as defined in ANSI/NEMA/ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.



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**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S8-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
**Notes:** S-MOD: 700lm/ft

**Type:**  
**R200-8'**  
MID23-74318



# LIGHTPLANE 3.5R

LP3.5R | RECESSED



## SPECIFICATIONS

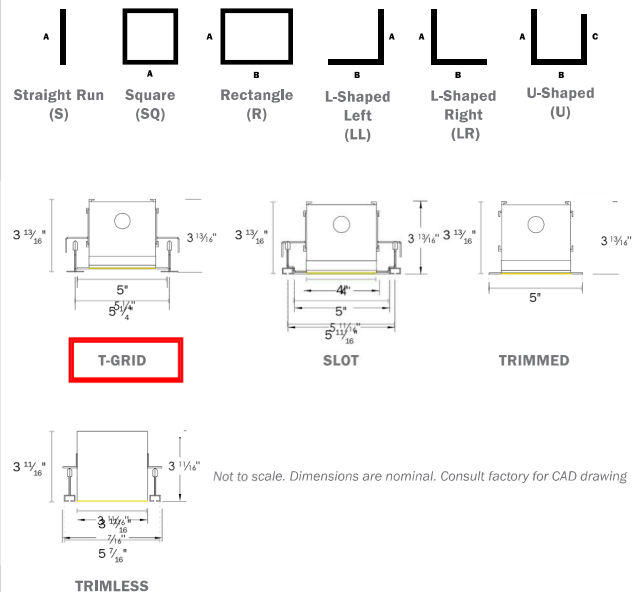
<b>PROFILE</b>	3.5" Aperture, 3 11/16" height
<b>SIZES</b>	Configurable linear sections and shapes. 2ft minimum length.
<b>LED OUTPUT</b>	125lm/ft - 1,100lm/ft. Accent downlights available (800/1000/1500lm Output Options).
<b>CCT/CRI</b>	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W
<b>DIMMING/ DRIVER</b>	Integral Driver: 0-10V, DALI, DMX, eIdoLED, Lutron®, PoE (Molex, Igor, NuLEDS). Dimming to 0% for select models.
<b>POWER</b>	6.2W - 10.7W per ft
<b>INPUT</b>	120VAC, 277VAC, or 347VAC
<b>OPTICS</b>	Lambertian distribution
<b>FINISHES</b>	18 standard finishes at no extra charge. Custom finishes available.
<b>MATERIAL</b>	6061 Extruded Aluminum
<b>ENVIRONMENT</b>	Dry or damp locations

**WELL/UGR**

See pages 7-8 for recommended options that contribute to meeting the WELL Building Standard™. UGR values available under 'Glare Control' on page 7.

\*Safety and Performance information available on last page. Output and other specifications available on pages 9-10.

## DISTRIBUTIONS & PROFILES



Rev 120622

**LP3.5R - SPECIFICATIONS RECESSED**

**ALWUSA.COM**  
1 of 17



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S8-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: S-MOD: 700lm/ft

**Type:**  
**R200-8'**

MID23-74318



**PRODUCT SPECIFICATION SHEET**



1	2	3	4a	4b	4c	5	6	7a	7b	7c	7d	8	9	10	11	12
13a	13b	13c	<b>EXAMPLE: LP3.5RT - DRY - S5 - MED/90/3500 - LTEA - EXT - DL1000/80/3500/25 - HEX - LTEA - 1 - SW - UNV</b> - EMB/1 - NLT - CP 13a 13b 13c 1 2 3 4 5 6 7 8 9 10 11 12													

1. BASE MODEL (CHOOSE 1)	2. CEILING TYPE* (CHOOSE 1)	3. SHAPE/LENGTH (CHOOSE 1 & ENTER LENGTH IN FEET) - FOR CUSTOM ANGLES, CONTACT ALW
QS <b>LP3.5RT</b> 3.5" Trimmed w/Flush Lens QS <b>LP3.5RTDL</b> 3.5" Trimmed w/Dropped Reveal lens QS <b>LP3.5RTRL</b> 3.5" Trimmed w/Regressed Lens QS <b>LP3.5RMUD</b> 3.5" Mud-in w/Flush Lens QS <b>LP3.5RHF</b> 3.5" Hidden Flange w/Flush Lens *Not compatible with accent downlight.	QS <b>DRY</b> Drywall QS <b>TGRID</b> T-Grid QS <b>SLOT</b> Slot QS <b>ATZ/TGRID<sup>1,5</sup></b> Armstrong® Techzone T-Grid QS <b>ATZ/SLOT<sup>1,5</sup></b> Armstrong® Techzone Slot *Additional ceiling types may be available, consult ALW. *Not available with LP3.5RHF base model. *Only available with LP3.5RT and LP3.5RDL base models. *All product and company names are trademarks or registered trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them.	QS <b>S8</b> Individual/Straight Run Section (enter length in product code above, ex. S5) QS <b>SQ</b> Square Configuration (enter side length A, ex: SQ5) QS <b>R</b> Rectangular Configuration (enter side lengths A and B, ex. R5-7) QS <b>LL</b> L-Shaped, Left Configuration (enter side lengths A and B, ex. LL5-7) QS <b>LR</b> L-Shaped, Right Configuration (enter side lengths A and B, ex. LR5-7) QS <b>U</b> U-Shaped Configuration (enter side lengths A, B, and C, ex. U5-7-4) *Lengths are nominal and may vary based on lamping and other specification selections. Consult ALW when exact lengths are required. *Shape orientation (Looking from the Ceiling down to the floor)

**MOD = 700 LM/FT**

4. LED LAMPING* (CHOOSE 1 FOR EACH)	5. DRIVER* (CHOOSE 1)	6. LENS*	7. ACCENT - DOWNLIGHT* (CHOOSE 1 FOR EACH)
A. OUTPUT QS <b>LOW</b> (635 lm/ft) QS <b>MED</b> (870 lm/ft) QS <b>HI</b> (1100 lm/ft) QS <b>RGB</b> (125 lm/ft) QS <b>TUNE</b> (2700K-6500K, 90 CRI, 416/450 lm/ft) QS <b>RGBW</b> (3500K, White, 80 CRI, 325 lm/ft) QS <b>CSTM</b> _____ <sup>10</sup> (Enter lumens in product code above. Ex. 0100=100lm/ft) *For delivered lumens and watts, see 'Performance Details' *CRI/CCT options not applicable for TUNE, RGB, or RGBW lamping *Choose when TUNE, RGB, or RGBW is desired output *Static BIOS SkyBlue® 490nm LED is always on, Dynamic BIOS SkyBlue® 490nm LED can be tuned out with most LED driver and dimmer combinations. See pages 10-11 for details. *90 CRI only. 2700K is not available in BIOS options *10 Consult ALW for custom lumen packages.	B. CRI* QS <b>NO CRI/CCT</b> <sup>7</sup> QS <b>80</b> QS <b>90</b> QS <b>BIOS</b> <sup>8</sup> QS <b>3500K</b> QS <b>3000K</b> QS <b>4000K</b> QS <b>BIOSD</b> <sup>9</sup> (DYNAMIC BIOS) C. CCT* QS <b>2700K</b> QS <b>3000K</b> QS <b>3500K</b> QS <b>4000K</b> *See 'Driver', 'Sensor' and lamping charts for driver details and sensor compatibility. *12 Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice.	QS <b>EXT</b> Diffuse lens *Looking for an asymmetric lens? Refer to ALW's SP2.5R or SP4R fixtures.	QS <b>N</b> None. Select when Accent Downlight Lamping not desired. A. SPOT QS <b>DL800</b> (800 lm/ft) QS <b>DL1000</b> (1000 lm/ft) QS <b>DL1500</b> (1500 lm/ft) B. CRI* QS <b>80</b> QS <b>90</b> C. CCT QS <b>2700K</b> QS <b>3000K</b> QS <b>3500K</b> QS <b>4000K</b> D. BEAM SPREAD QS <b>25</b> QS <b>40</b> *Downlights are not available in BIOS options as the COB is too large to fit in downlight housing.

**TW = TEXTURED WHITE FINISH**

8. ACCESSORY-ACCENT DOWNLIGHT (CHOOSE 1)	9. DRIVER - ACCENT DOWNLIGHT (CHOOSE 1)	10. QUANTITY - ACCENT DOWNLIGHT (CHOOSE 1)	11. FINISH (CHOOSE 1)
QS <b>N</b> None QS <b>HEX</b> Hexcell louver QS <b>SNT</b> Snoot QS <b>HEXSNT</b> Both Hexcell louver and Snoot  	QS <b>N</b> None. Select when Accent Downlight Lamping not desired. _____ <sup>12</sup> Manually type code for desired driver in product code above. *12 Accent downlights not available with TSERIES and ELDO/DW driver types.	QS <b>N</b> None _____ Type total quantity of downlights per run length in product code on previous page. (Maximum 1x for 2-3ft., 2x for 4-5ft, and 3x for 6-8ft.)	STANDARD FINISHES QS <b>AL</b> Anodized Aluminum QS <b>SW</b> Satin White QS <b>SB</b> Satin Black _____ See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze) SPECIAL ORDER FINISHES RAL _____ Specify RAL Classic Color (Ex: RAL 3003) - CAT _____ Specify Catalog Colors CCM _____ Custom Color Match *Manually type in the finish code for special order finishes.

CONTINUES ON NEXT PAGE →

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS".  
 NOTE: Maximum 800 ft. of QuickShip-eligible product per order.

**LP3.5R - SPECIFICATIONS RECESSED**

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2 of 17



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S8-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
**Notes:** S-MOD: 700lm/ft

**Type:**  
**R200-8'**

MID23-74318



## PRODUCT SPECIFICATION SHEET CONT'D

12. VOLTAGE (CHOOSE 1)	13a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)
QS <b>UNV</b> Universal Voltage (120VAC-277VAC) <b>347</b> 347 Volt (Driver options may be limited. Not available with EMB)	QS <b>EMB/___</b> <sup>13</sup> Emergency Battery (indicate QTY — each battery powers 4ft. section @ 1492lm. Not available in 347 V)  QS <b>EMC/___</b> <sup>13</sup> Emergency Circuit (indicate QTY of 4ft sections to be illuminated by emergency circuit)  <sup>13</sup> For fixtures under 4ft in length, entire fixture will be illuminated with a proportional lumen output. Consult ALW for more details.

13b. SENSOR OPTIONS* (OPTIONAL, CHOOSE 1)	13c. ADDITIONAL OPTIONS* (OPTIONAL)
<b>N</b> (None) <b>WLN/INT/___</b> (Cooper Wavelinx, integral) <b>WLN/___</b> (Cooper Wavelinx, remote) QS <b>ENL/___</b> (Enlighted, remote) QS <b>ENL/INT/___</b> (Enlighted, integral) <b>VRF/___</b> (Lutron Vive, integral) <b>VDO/___</b> (Lutron Vive, integral+ occ/daylight sensor) <b>FCJS/___</b> (Lutron, remote) <b>FCJS/S/___</b> (Lutron, remote + occ/daylight sensor) <b>MLX/INT/___</b> (Molex POE, integral)	<b>MLX</b> (Molex POE, remote) <b>NLT/INT/___</b> (nLight wired, integral occ/daylight sensor) <b>NLT</b> (nLight wired remote connection) <b>NLTAIR/INT/___</b> (nLight AIR, integral) <b>NLTAIR</b> (nLight AIR, remote connection) <b>OS/PH/INT/___</b> (Acuity 0-10VDC integral occ/daylight sensor) <b>OS/INT/HV/___</b> (Legrand Wattstopper High Voltage integral occ/daylight sensor) QS <b>OS/PH/HV/___</b> (Hubbel WASP remote occ/daylight sensor)  QS <b>CP</b> Chicago Plenum Certification

\*Quickship availability on occupancy and photocell/daylight sensors may vary. Contact ALW for more information.  
 \*Default quantity is 1 sensor per 8ft, type alternate quantity into product code above if desired. Sensor descriptions available on page 13.  
 \*Not all sensors are compatible with all drivers. See 'Driver', 'Sensor' and lamping charts for driver details and sensor compatibility.

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS".  
 NOTE: Maximum 800 ft. of QuickShip-eligible product per order.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S8-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: S-MOD: 700lm/ft

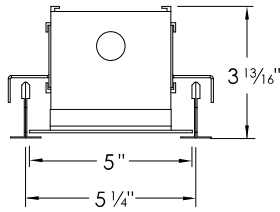
**Type:**  
**R200-8'**

MID23-74318

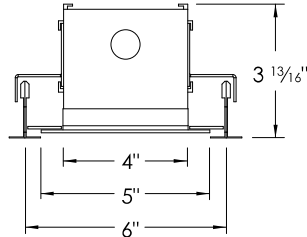


**MECHANICAL DIAGRAMS**

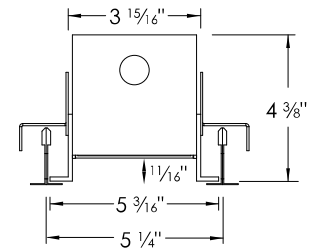
**T-GRID**



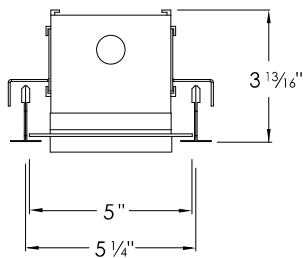
**LP3.5RT  
TGRID**



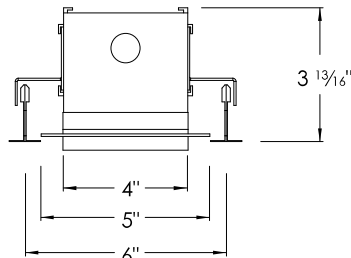
**LP3.5RT  
ATZ/TGRID**



**LP3.5RTRL  
TGRID**

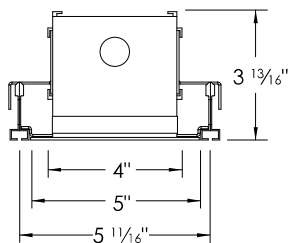


**LP3.5RTDL  
TGRID**

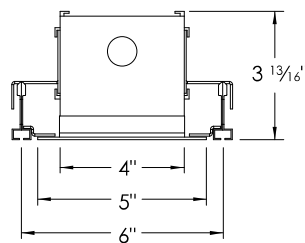


**LP3.5RTDL  
ATZ/TGRID**

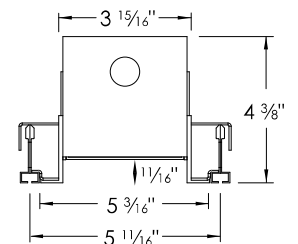
**SLOT**



**LP3.5RT  
SLOT**



**LP3.5RT  
ATZ/SLOT**



**LP3.5RTRL  
SLOT**





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S8-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: S-MOD: 700lm/ft

**Type:**

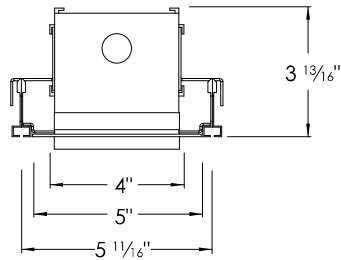
**R200-8'**

MID23-74318

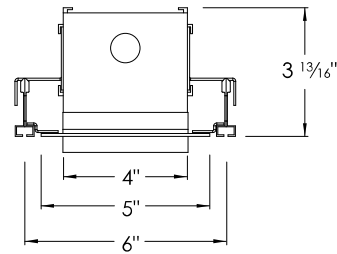


**MECHANICAL DIAGRAMS CONT'D**

**SLOT CONT'D**

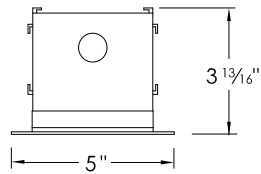


**LP3.5RTDL  
SLOT**



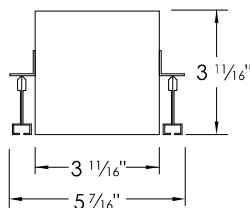
**LP3.5RTDL  
ATZ/SLOT**

**TRIMMED**

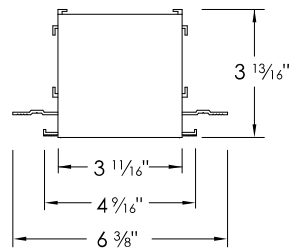


**LP3.5RT  
DRY**

**TRIMLESS**



**LP3.5RHF  
TGRID AND SLOT**



**LP3.5RMUD  
DRY**



**Job Name:**  
 DUTCHESS STADIUM  
 Distributor: LS FIELDTECH, LLC.  
 (ROCHESTER)

**Catalog Number:**  
 LP3.5RT-TGRID-S8-700LF/80/3500-0/  
 10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
 Notes: S-MOD: 700lm/ft

**Type:**  
**R200-8'**  
 MID23-74318



**STANDARD FINISHES**

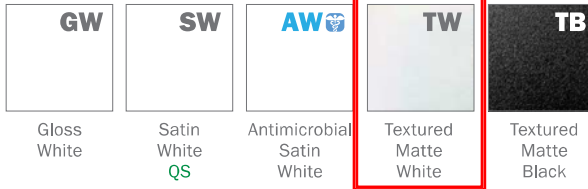
Standard finishes are available at no additional charge.

**ALUMINUM**



Anodized Aluminum  
 QS

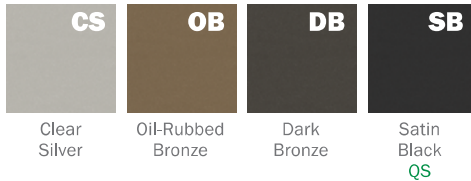
**BASIC POWDER COAT**



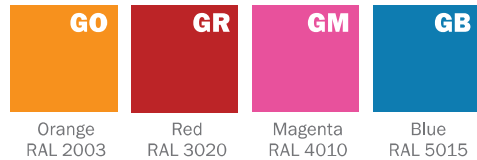
**METALLIC POWDER COAT**



**SATIN ANODIZED EFFECT POWDER COAT**



**GLOSS POWDER COAT (80-95% GLOSS)**



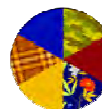
Contact ALW Quotes for sample paint finish swatches.

**SPECIAL ORDER FINISHES\***



**RAL CLASSIC COLORS (80-95% GLOSS): RAL\_ \_ \_ \_**

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003). See [www.alwusa.com/finishes](http://www.alwusa.com/finishes)



**CUSTOM COLOR MATCH: CCM\_ \_ \_ \_**

Custom powder coat color matching is available for a premium setup fee. Consult ALW for additional information.



**CATALOG COLORS: CAT\_ \_ \_ \_**

The complete range of powder coat colors from Tiger Drylac and TCI catalogs are available for a minimum setup fee. Consult ALW for a catalog color you would like to specify.

\*An individual setup fee will apply to each unique Special Order Finish per purchase order.  
 (ex: RAL 5023 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)

\*Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying)



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S8-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
**Notes:** S-MOD: 700lm/ft

**Type:**  
**R200-8'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™

ALW is committed to providing the highest quality luminaires for a multitude of applications, with many versatile lighting solutions that contribute to satisfying the WELL Building Standard. Below is a quick guide to assist you in specifying appropriate product configurations for WELL features. Links to official WELL standards can be found [here](#).

### CIRCADIAN LIGHTING DESIGN FEATURE L03

The Circadian Lighting Design feature requires projects to provide users with appropriate exposure to light for maintaining circadian health and aligning the circadian rhythm with the day-night cycle.

To conform to these requirements, the project must meet one of the following 4 light level options (a, b, c, or d) below. These light levels are measured on the vertical plane at eye level of the occupant. The light levels are achieved at least between the hours of 9 a.m. and 1 p.m. and may be lowered after 8 p.m. at night.

DESIGNING WITH ELECTRIC LIGHT ONLY	DESIGNING WITH BOTH ELECTRIC LIGHT & DAYLIGHT	POINTS
a. At least 150 EML [136 melanopic equivalent daylight D65]	b. The project achieves at least 120 EML [109 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	1
c. At least 240 EML [218 melanopic equivalent daylight D65]	d. The project achieves at least 180 EML [163 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	3

Choose from a BIOS Static or BIOS Dynamic light engine to assist in a healthy, circadian lighting design. CCT, CRI, Luminous Flux Multipliers, and Melanopic Ratios are shown below for easy specification.

CIRCADIAN LIGHTING DESIGN (3PT MAX)	BIOS STATIC (BIOS)			BIOS DYNAMIC (BIOSD)			HOW TO SPECIFY
<b>CCT</b>	3000K	3500K	4000K	3000K	3500K	4000K	1. Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b> 2. Select the appropriate Lumen <b>OUTPUT</b> 3. Select the appropriate <b>CCT</b>
<b>CRI / R9</b>	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	
<b>LUMINOUS FLUX MULTIPLIER</b>	0.95	0.98	1.00	0.95	0.98	1.00	See BIOS LED Lamping and Performance Details at the back of this spec sheet for lumen outputs, COI index values, and other additional information.
<b>MELANOPIC RATIO (R)*</b>	0.70	0.80	0.90	0.74	0.83	0.95	

### GLARE CONTROL FEATURE L04

Glare is defined as excessive brightness of a light-source, excessive brightness-contrasts and excessive quantities of light. Glare has been associated with a host of health issues that range from visual discomfort and eye fatigue to headaches and migraines.

To conform to Glare Control requirements, each luminaire must meet one of the following options (a, b, or d) for regularly occupied spaces.

GLARE CONTROL CRITERIA (3PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. Indirect (100% emission above horizontal)	✓	-	-
b. Unified Glare Rating (UGR)*	✓	12.2 @ 16ft (HI Output) 10.94 @ 20ft (HI Output)	1. Select <b>ANY</b> output for <b>LED LAMPING</b> 2. Select <b>ANY</b> option for <b>BASE MODEL</b>
c. Shielding Angle	No	-	-
d. Max. Luminance (45°-90°) Max. Intensity (45°-90°)	✓	5924 cd/m <sup>2</sup> @ LOW Output 453.37 cd @ MED Output	1. Select an output of <b>LOW</b> for <b>LED LAMPING</b> 2. Select <b>ANY</b> option for <b>BASE MODEL</b>

\*Advertised UGR values are averages and were calculated in AGI32 using the following method: 1) A 5.4m x 3.6m room was created and fixtures were spaced 2m apart center-to-center. Calculations were performed at 16ft. and 20ft.

Rev 120622

**LP3.5R - SPECIFICATIONS  
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**ALWUSA.COM  
7 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

LP3.5RT-TGRID-S8-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: S-MOD: 700lm/ft

**Type:**

**R200-8'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™ (CONTINUED)

### ELECTRIC LIGHT QUALITY - PART 1: COLOR RENDERING QUALITY + PART 2: FLICKER FEATURE L07

Using light sources that have characteristics similar to daylight, including high color rendering and minimal flicker can improve comfort and well-being of users in a space and contribute to creating a healthy environment.

Part 1: Each luminaire must meet one of the following requirements (a or b) for regularly occupied spaces.

Part 2: Each luminaire must meet the IEEE 1789-2015 Standard Recommended Practice to manage flicker.

<b>PART 1 - ENSURE COLOR RENDERING QUALITY (1PT MAX)</b>	<b>COMPLIANT</b>	<b>VALUE</b>	<b>HOW TO SPECIFY</b>
a. CRI > 90	✓	CRI = 93 - 95	• Select <b>90</b> (90CRI) for <b>LED LAMPING</b>
b. CRI > 80 with R9 > 50	✓	CRI = 83, R9 > 90	• Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b>
c. IES Rf ≥ 78, IES Rg ≥ 100, -1% ≤ IES Rcs, h1 ≤ 15%	No	-	-
<b>PART 2 - MANAGE FLICKER (1PT MAX)</b>	<b>COMPLIANT</b>	<b>VALUE</b>	<b>HOW TO SPECIFY</b>
Meets IEEE 1789-2015 Standard Recommended Practice	✓	Modulation = 1% Flicker Frequency = 120 - 2000Hz	• Select <b>0/10V/S, 0/10V/1%, ECOSYS1, DALI</b> or <b>DMX</b> for <b>LED DRIVER</b>



**Job Name:**  
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10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
**Notes:** S-MOD: 700lm/ft

**Type:**  
**R200-8'**  
MID23-74318



**PERFORMANCE DETAILS**

OUTPUT	DELIVERED LUMENS/FT	EFFICACY (LM/W)	WATTS/FT <sup>14</sup>	CRI OPTIONS	CCT OPTIONS
LOW <sup>15</sup>	635	Up to ~103	6.2	80 90	2700K (90CRI Only) 3000K 3500K 4000K 5000K
MIN <sup>15</sup>	870		8.4		
HI <sup>15</sup>	1100		10.7		
TUNE	WW: 416, CW: 450	Up to ~107	8.4	90+	
RGB <sup>16</sup>	125	N/A	5	N/A	
RGBW <sup>17</sup>	RGB: 122 RGB+W: 325 White Only: 203		5x	80 (White Chip)	

<sup>14</sup>Lumens/Watt and Watts/ft have been calculated assuming a driver efficiency of 85%. Depending on field conditions, actual measured values may fluctuate by 5-8%.

<sup>15</sup>Performance calculations are based on LM-79 test of HI output at 80 CRI and 4000K. LOW and MED calculations are extrapolated values.

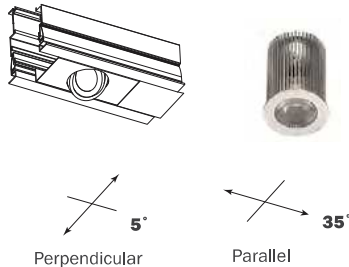
<sup>16</sup>Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue).

<sup>17</sup>Performance calculations are derived from the following LM-79 tests: 1) RGB LEDs illuminated, 2) RGB+W LEDs illuminated, 3) White LED only illuminated.

**PERFORMANCE DETAILS - ACCENT/DOWNLIGHT LAMPING**

SPOT	DELIVERED LUMENS (LM)	WATTS (W)	EFFICACY (LM/W)	CRI	CCT OPTIONS	BEAM SPREAD OPTIONS (DEGREES)
DL800	800	5.1	157	80 90	2700K 3000K 3500K 4000K	25 40
DL1000	1000	6.7	150			
DL1500	1500	10.5	143			

**AIMING**





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S8-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: S-MOD: 700lm/ft

**Type:**

**R200-8'**

MID23-74318

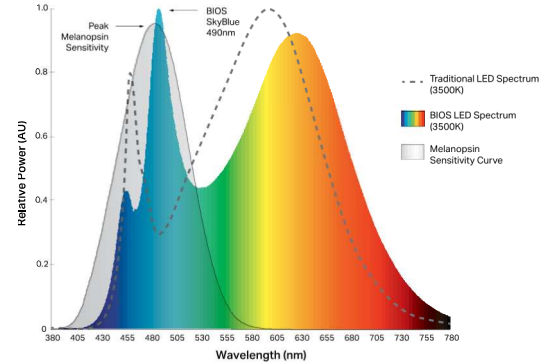


## BIOS OVERVIEW



BIOS SkyBlue® technology is designed to provide the specific circadian stimulus required to improve overall sleep by **featuring a distinct peak in the 'skyblue' spectral power at 490nm**. Unlike traditional white LEDs, BIOS SkyBlue® makes it possible to achieve **high EML (Equivalent Melanopic Lux) and Melanopic/Photopic ratios** without harsh CCTs or high, glare-inducing light levels.

BIOS light engines are available in **Static** or **Dynamic** options for use with a variety of applications. In Static light engines, the SkyBlue 490nm signal always remains on while the fixture is powered. Dynamic options include a dynamic board and Bio-Dimmer module to allow the user to dim-out the SkyBlue 490nm signal during night time hours.



	BIOS STATIC (BIOS)	BIOS DYNAMIC + BIO-DIMMING™ (BIOSD)
<b>DESCRIPTION</b>	490nm SkyBlue light signal always remains on while the fixture is powered.	Dynamic light engine with Bio-Dimming add the ability to fine-tune and dim-out the 490nm SkyBlue signal during night time hours or as desired.
<b>TYPICAL APPLICATIONS</b>	Environments typically occupied only during daylight hours (6am - 8pm) such as offices and schools.	Environments occupied for a 24-hour period such as hospitals, security facilities, behavioral health facilities, factories, etc.
<b>CONTROLS &amp; DIMMING*</b>	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS melanopic ratio remains constant as you dim down the light intensity.	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS SkyBlue® LED can be dimmed-out using a standard control/dimmer.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.

### BIOS LED LAMPING DETAILS (STATIC OR DYNAMIC)

OUTPUT	DELIVERED LUMENS (LM/FT)	WATTS (W/FT)	EFFICACY (LM/W)	CRI OPTIONS
<b>LOW<sup>18</sup></b>	635	6.2	Up to ~103	82+
<b>MED<sup>18</sup></b>	870	8.4		
<b>HI<sup>18</sup></b>	1100	10.7		

### BIOS LED PERFORMANCE DETAILS

CCT	CRI (Ra) <i>Static BIOS</i> <i>Dynamic BIOS</i>	CRI (R9) <i>Static BIOS</i> <i>Dynamic BIOS</i>	DAYTIME M/P RATIO <sup>19</sup> <i>Static BIOS</i> <i>Dynamic BIOS</i>	NIGHTTIME M/P RATIO <sup>20</sup> <i>Static BIOS</i> <i>Dynamic BIOS</i>	COI <sup>21</sup> <i>Static BIOS</i> <i>Dynamic BIOS</i>
<b>3000K</b>	82	94	0.70	0.70	3.0
	83	90	0.73	0.45	3.3
<b>3500K</b>	83	91	0.80	0.80	3.1
	83	90	0.84	0.50	3.1
<b>4000K</b>	83	91	0.90	0.90	3.1
	83	90	0.95	0.55	3.1

<sup>18</sup>Performance calculations are based on LM-79 test of BIOS 4000K, HI output. LOW and MED calculations are extrapolated values.

<sup>19</sup>Melanopic to photopic (M/P) ratios are used to help calculate equivalent melanopic lux (EML) values which is the metric used for circadian lighting in the WELL™ Building Standard.

<sup>20</sup>Static LED nighttime M/P ratios remain the same as daytime M/P ratios as BIOS SkyBlue® always remains at full output.

<sup>21</sup>BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.

Rev 120622

**LP3.5R – SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
**10 of 17**



**Job Name:**  
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(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S8-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
Notes: S-MOD: 700lm/ft

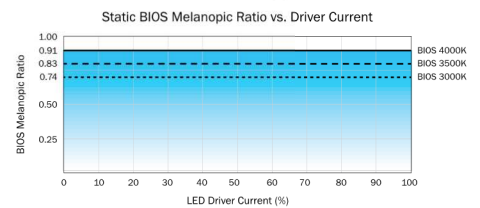
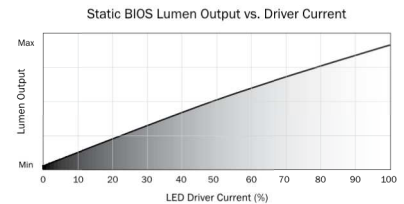
**Type:**  
**R200-8'**  
MID23-74318



**BIOS STATIC DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	LIGHT OUTPUT* (BIOS SKYBLUE® + WHITE LED)		BIOS + White LED Intensity Dimming
100%* (Full On)	100%		
99% - 51%	Linear Dimming 99% - 51%		
50%	Linear Dimming 50%		
49% - 0%	Linear Dimming 49% - 0%		

BIOS SkyBlue® LED and White LED dim with a 1-to-1 ratio.



\*While melanopic ratio remains constant, dimming/reducing light output will have an overall impact on Equivalent Melanopic Lux (EML). That is because  $EML = \text{Vertical Lux} \times \text{melanopic ratio}$ . Therefore, if you reduce light levels by dimming the LEDs, you will reduce your effective EML, even when the melanopic ratio stays constant.

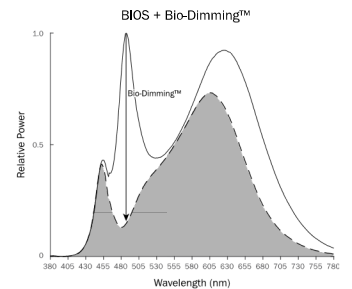
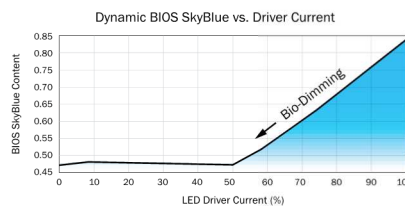
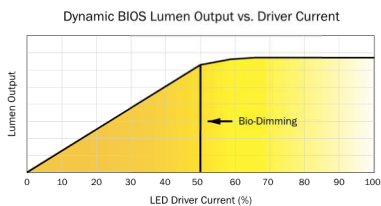
**BIOS DYNAMIC + BIO-DIMMING™ DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT	
100%* (Full On)	100%	100%	100%	Bio-Dimming
99% - 51%	100% - 0%	100%	100% - 90%	
50%	NO BIOS	100%	~90%	White LED Intensity Dimming
49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	

BIOS SkyBlue® maintained for maximum circadian impact.  
Light output remains relatively constant.

BIOS SkyBlue® removed to provide minimal circadian impact.  
White LED output dims linearly.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.







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10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
**Notes:** S-MOD: 700lm/ft

Type:

**R200-8'**

MID23-74318

**DRIVERS**

PRODUCT CODE	DESCRIPTION
<b>N</b>	None. Choose when indirect lamping is not desired.
<b>V00</b>	0-10V dimming down to 0% (dim to off).
<b>V01</b>	0-10V dimming down to 1%.
<b>V05</b>	0-10V dimming down to 5% (Down to 10% for TUNE lamping).
<b>P01</b>	ELV/TRIAC Phase dimming down to 1%
<b>LDE1</b>	(LDE1) Lutron Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
<b>LTEA</b>	(LTEA) Lutron Hi-Lume 1% 2-wire TRIAC dimming (120V forward-phase only).
<b>TSERIES</b>	Lutron T-Series Tunable White Class 2 LED Driver (For use with Lutron Quantum Control Systems)
<b>ELDV0</b>	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)
<b>ELDDW</b>	eldoLED 0/10V dim-to-warm dimming down to 0% (specify with TUNE LED lamping. Driver will be programmed with LightShape dim-to-warm setting)
<b>DALI</b>	DALI flicker-free dimming down to 0%.
<b>DMX</b>	DMX flicker-free dimming down to 0%.
<b>POEM</b>	Molex CoreSync PoE LED Driver. Contact ALW to assist with your project.
<b>POEI</b>	IGOR PoE LED Driver. Contact ALW to assist with your project.
<b>POEN</b>	NuLEDS PoE LED Driver. Contact ALW to assist with your project.
<b>POE</b>	Specify a PoE driver of your choice. Fixture comes with low voltage leads and no LED driver. Contact ALW to assist with your project

\*Most drivers can be programmed to specific dimming levels if desired. Contact ALW for specific dimming level requests. ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

DRIVER/LED LAMPING COMPATIBILITY							
	STD	STD/BIOS	TUNE	RGB	RGB(W)	CA TITLE 24 JA8/JA10 <sup>22</sup>	IEEE P1789 & HD TV STUDIO <sup>23</sup>
<b>V00</b>	●	●	●			●	
<b>V01</b>	●	●	●			●	
<b>V05</b>	●	●	●			●	
<b>P01</b>	●	●				●	
<b>LDE1</b>	●	●				●	●
<b>LTEA</b>	●	●				●	
<b>TSERIES</b>			●			●	●
<b>ELDV0</b>	●	●	PER REQUEST			●	●
<b>ELDDW</b>			●				
<b>DALI</b>	●	●	●			●	
<b>DMX</b>	●		●		●	PER REQUEST	PER REQUEST
<b>POEM</b>			PER REQUEST			●	●
<b>POEI</b>			PER REQUEST			●	●
<b>POEN</b>			PER REQUEST			●	●

● - Indicates compatibility

\* Standard lamping (STD) - LOW/MED/HI

<sup>22</sup> Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to California Title 24 JA8 and JA10 Appendices

<sup>23</sup> The following drivers conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.

Rev 120622

**LP3.5R - SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
**12 of 17**



**Job Name:**  
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(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S8-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
**Notes:** S-MOD: 700lm/ft

**Type:**  
**R200-8'**

MID23-74318

**SENSORS**

	PRODUCT CODE	DESCRIPTION	Location
	<b>N</b>	None. Choose when sensors are not desired.	-
<b>COOPER WAVELINX</b>	<b>WLNx/INT</b>	Wavelinx Wireless integral occ/daylight sensor (WaveLinX part: OEM-WAA)	Integral
	<b>WLNx</b>	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Remote
<b>ENLIGHTED™</b>	<b>ENLGHt/INT</b>	Enlighted integral connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5E-CL)	Integral
	<b>ENLGHt</b>	Enlighted® remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote
<b>LUTRON VIVE</b>	<b>VRF</b>	Lutron® Vive integral RF wireless fixture control (Lutron Part: DFCSJ-OEM-RF)	Integral
	<b>VDO</b>	Lutron® Vive integral RF wireless fixture control + daylight/occ sensor (Lutron Part: DFCSJ-OEM-OCC)	Integral
	<b>FCJS</b>	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote
	<b>FCJS/S</b>	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	Molex CoreSync PoE Integral Fixture-Mounted Sensor R - occ/daylight/temperature/humidity (Molex Part: 182091-1000)	Integral
	<b>MLX</b>	Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from	Remote
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	Fixture is built with nLight Wired integral components specified by agency. Contact ALW to review project details.	Integral
	<b>NLT</b>	Fixture is built to connect to nLight Wired remote components specified by agency. Contact ALW to review project details.	Remote
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	Fixture is built with nLight Air (Wireless) components specified by agency. Contact ALW to review project details.	Integral
	<b>NLTAIR</b>	Fixture is built to connect to nLight Air (Wireless) remote components specified by agency. Contact ALW to review project details.	Remote
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	Acuity 0-10VDC Integral occ/daylight sensor (Acuity Part: MSD 7 ADC WH) Automated Dimming Functionality Only. Manual Dimming not available. Customer to set sensor functionality in the field. Lowest dim level depends on driver.	Integral
	<b>OS/INT/HV</b>	Legrand Wattstopper <b>High Voltage</b> Integral occ/daylight on/off sensor (Part: FS-355) On/Off or Manual Dimming Functionality Only (based on occupancy and daylight). Connect fixture 0/10V wires to wall dimmer in the field. No Automated Dimming available.	Integral
	<b>OS/PH/HV</b>	Hubbell WASP <b>High Voltage</b> 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDSMUNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Remote

\*All connected lighting sensors/systems must be programmed in the field by an electrical commissioner familiar with the system. Refer to the 'Sensor Compatibility' and 'Driver/Sensor Compatibility' charts to specify compatible sensors, LED lamping, and LED driver systems.

Rev 120622

**LP3.5R - SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
**13 of 17**



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**Catalog Number:**  
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 Notes: S-MOD: 700lm/ft

**Type:**  
**R200-8'**  
 MID23-74318



**SENSORS CONT'D**

SENSOR COMPATIBILITY								
PRODUCT CODE		SENSOR TYPE	MAX MT HT	CA TITLE 24	STD*	TUNE	RGB	RGB(W)
COOPER WAVELINX	WLNx/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	WLNx		15 ft	●	●			
ENLIGHTED™	ENLGHt/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●	CUSTOM REQUEST		
	ENLGHt	OCCUPANCY/PHOTOCELL	40 ft	●	●	CUSTOM REQUEST		
LUTRON VIVE	VRF	WIRELESS CONTROL	12 ft	●	●			
	VDO	OCCUPANCY/PHOTOCELL	12 ft	●	●			
	FCJS	WIRELESS CONTROL	12 ft	●	●			
	FCJS/S/	OCCUPANCY/PHOTOCELL	12 ft	●	●			
MOLEX POE CORESYNC	MLX/INT	OCCUPANCY/PHOTOCELL TEMPERATURE/HUMIDITY	16 ft	●	●			
	MLX		16 ft	●	●	●	CUSTOM REQUEST	CUSTOM REQUEST
NLIGHT WIRED®	NLT/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	NLT		15 ft	●	●			
NLIGHT WIRELESS®	NLTAIR/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	NLTAIR		15 ft (average)	●	●			
VALUE SENSORS	OS/PH/INT	OCCUPANCY/PHOTOCELL	15 ft		●			
	OS/INT/HV	OCCUPANCY/PHOTOCELL	15 ft	●	●	■	■	■
	OS/PH/HV	OCCUPANCY/PHOTOCELL	45 ft	●	●	■	■	■

● - Indicates compatibility    ■ - On/off sensor functionality only  
 \*Standard lamping (STD) - LOW/MED/HI



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Notes: S-MOD: 700lm/ft

**Type:**  
**R200-8'**  
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**SENSORS (CONT'D)**

DRIVER/SENSOR COMPATIBILITY									
	WLNx/INT	WLNx	ENLGHt/ INT	ENLGHt	VRF	VDO	FCJS	FCJS/S /	MLX/INT
V00	●	●	●	●			●	●	
V01	●	●	●	●			●	●	
V05	●	●	●	●			●	●	
P01									
LDE1					●	●	●	●	
LTEA									
TSERIES									
ELDV0									
ELDDW									
DALI					●	●			
DMX									
POE/ MOLEX									●
POE/IGOR	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ NULEDS	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ READY	Sensor types will depend on the PoE system configuration. Contact ALW for details.								

- - Indicates compatibility
- ▲ - Fixture can have automated dimming via sensor OR on/off functionality and manual dimming
- - On/off sensor functionality only

DRIVER/SENSOR COMPATIBILITY CONT'D									
	MLX	NLT/INT	NLT	NLTAIR/INT	NLTAIR	OS/PH/INT	OS/INT/HV	OS/PH/HV	NO SENSOR
V00						●	■	▲	●
V01						●	■	▲	●
V05						●	■	▲	●
P01							■	■	●
LDE1									●
LTEA							■	■	●
TSERIES							■	■	●
ELDV0		●	●	●	●	●	■	▲	●
ELDDW							■	■	●
DALI							■	■	●
DMX							■	■	●
POE/ MOLEX	●								●
POE/IGOR	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ NULEDS	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ READY	Sensor types will depend on the PoE system configuration. Contact ALW for details.								



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Notes: S-MOD: 700lm/ft

**Type:**

**R200-8'**

MID23-74318

**PHOTOMETRICS**

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC) <sup>24</sup> (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
<b>EXT</b>		6 ft	22.8	1.24 1.24	784.4	1100
		8 ft	12.3			
		10 ft	7.8			
		12 ft	5.4			
		14 ft	4			
		16 ft	3.1			

\*Photometric calculations based on HI 4000K 80 CRI fixture combination. Actual results may vary in the field.

For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#).

<sup>24</sup> criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface.

Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S8-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
Notes: S-MOD: 700lm/ft

**Type:**  
**R200-8'**

MID23-74318



## ADDITIONAL OPTIONS & SPECIFICATIONS

### LED PERFORMANCE

> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

### HOUSING

100% recyclable, extruded architectural grade 6061 aluminum with a 0.08" minimum wall thickness.

### LENS OPTIONS

Extruded, twin-layered, high-impact acrylic. EXT is white and extra diffuse with minimal- to no-source visibility.



FLUSH LENS – EXT/F

### SAFETY & REGULATORY

Fixtures specified with 90CRI, 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to **California Title 24 JA8 and JA10** Appendices. EidoLED drivers can conform to IEEE P1789 Flicker Standard: IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers .

Contact [ALW customer support](#) today and we can help you with your project requirements..

ETL Listed (U.S. & Canada). Suitable for dry or damp locations. Conforms to UL std. 1598, Luminaires. Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2.

### WARRANTY

Limited 11-year warranty. Details: [alwusa.com/warranty](http://alwusa.com/warranty)

### OPERATING TEMPERATURE

Luminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from -4 °F to 122 °F (-20 °C to 50 °C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

### INTEGRAL DOWNLIGHTS

Optional, aimable accent downlights deliver 800-1500 lumens with a beam spread of 25° or 40°. Hex cell (HEX) and snoot (SNT) accessories are also available.



### CONTROLS, SENSORS, & LED DRIVER

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, nLight, Cooper Wavelinx, eidoLED, Molex PoE, NuLEDS PoE, Igor PoE, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact [ALW customer support](#) today so we can review your requirements.



### WEIGHT

Approximately 3 lbs. per linear foot (not including downlight option). Weight may vary depending on mounting, downlight, and additional options selected.

### WOOD VENEER

Most ALW fixture configurations are available with [real wood veneer](#) as a custom request. Contact [ALW customer support](#) so we can help you with your custom wood veneer request.

### CHICAGO PLENUM CERTIFICATION

Recessed fixtures for this product family are available to meet Chicago Plenum certification in continuous lengths. For Chicago Plenum options please contact ALW.

Rev 120622

**LP3.5R – SPECIFICATIONS**  
**RECESSED**

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**17 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S18-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: S-MOD: 700lm/ft

**Type:**  
**R200-18'**

MID23-74318



# LIGHTPLANE 3.5R

LP3.5R | RECESSED



## SPECIFICATIONS

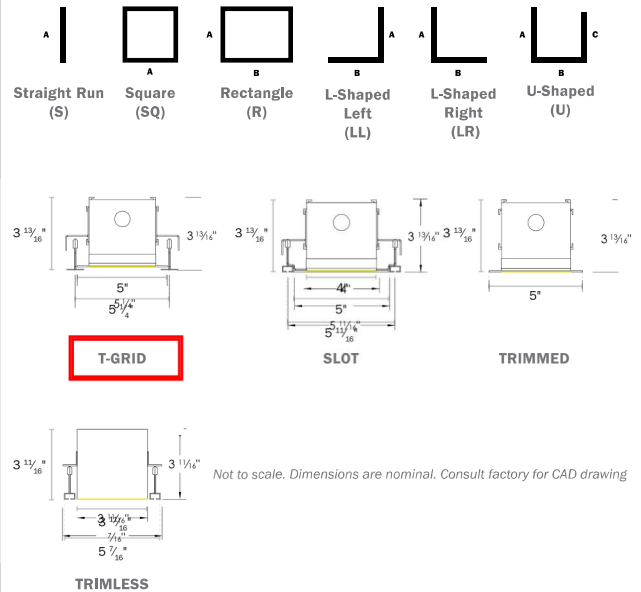
<b>PROFILE</b>	3.5" Aperture, 3 11/16" height
<b>SIZES</b>	Configurable linear sections and shapes. 2ft minimum length.
<b>LED OUTPUT</b>	125lm/ft - 1,100lm/ft. Accent downlights available (800/1000/1500lm Output Options).
<b>CCT/CRI</b>	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W
<b>DIMMING/ DRIVER</b>	Integral Driver: 0-10V, DALI, DMX, eIdoLED, Lutron®, PoE (Molex, Igor, NuLEDS). Dimming to 0% for select models.
<b>POWER</b>	6.2W - 10.7W per ft
<b>INPUT</b>	120VAC, 277VAC, or 347VAC
<b>OPTICS</b>	Lambertian distribution
<b>FINISHES</b>	18 standard finishes at no extra charge. Custom finishes available.
<b>MATERIAL</b>	6061 Extruded Aluminum
<b>ENVIRONMENT</b>	Dry or damp locations

**WELL/UGR**

See pages 7-8 for recommended options that contribute to meeting the WELL Building Standard™. UGR values available under 'Glare Control' on page 7.

\*Safety and Performance information available on last page. Output and other specifications available on pages 9-10.

## DISTRIBUTIONS & PROFILES



Rev 120622

**LP3.5R - SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
1 of 17





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S18-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

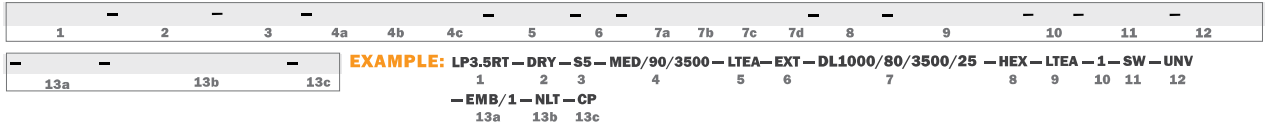
Notes: S-MOD: 700lm/ft

**Type:**  
**R200-18'**

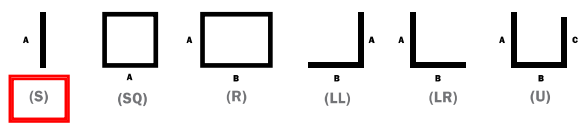
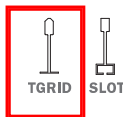
MID23-74318



**PRODUCT SPECIFICATION SHEET**



1. BASE MODEL (CHOOSE 1)	2. CEILING TYPE* (CHOOSE 1)	3. SHAPE/LENGTH (CHOOSE 1 & ENTER LENGTH IN FEET) - FOR CUSTOM ANGLES, CONTACT ALW
QS <b>LP3.5RT</b> 3.5" Trimmed w/Flush Lens QS <b>LP3.5RTDL</b> 3.5" Trimmed w/Dropped Reveal lens QS <b>LP3.5RTRL</b> 3.5" Trimmed w/Regressed Lens QS <b>LP3.5RMUD</b> 3.5" Mud-in w/Flush Lens QS <b>LP3.5RHF</b> 3.5" Hidden Flange w/Flush Lens *Not compatible with accent downlight.	QS <b>DRY</b> Drywall QS <b>TGRID</b> T-Grid QS <b>SLOT</b> Slot QS <b>ATZ/TGRID</b> Armstrong® Techzone T-Grid QS <b>ATZ/SLOT</b> Armstrong® Techzone Slot *Additional ceiling types may be available, consult ALW. *Not available with LP3.5RHF base model. *Only available with LP3.5RT and LP3.5RDL base models. *All product and company names are trademarks or registered trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them.	QS <b>s18</b> Individual/Straight Run Section (enter length in product code above, ex. S5) QS <b>SQ</b> Square Configuration (enter side length A, ex: SQ5) QS <b>R</b> Rectangular Configuration (enter side lengths A and B, ex. R5-7) QS <b>LL</b> L-Shaped, Left Configuration (enter side lengths A and B, ex. LL5-7) QS <b>LR</b> L-Shaped, Right Configuration (enter side lengths A and B, ex. LR5-7) QS <b>U</b> U-Shaped Configuration (enter side lengths A, B, and C, ex. U5-7-4) *Lengths are nominal and may vary based on lamping and other specification selections. Consult ALW when exact lengths are required. *Shape orientation (Looking from the Ceiling down to the floor)



**MOD = 700 LM/FT**

4. LED LAMPING* (CHOOSE 1 FOR EACH)	5. DRIVER* (CHOOSE 1)	6. LENS*	7. ACCENT - DOWNLIGHT* (CHOOSE 1 FOR EACH)
A. OUTPUT QS <b>LOW</b> (635 lm/ft) QS <b>MED</b> (870 lm/ft) QS <b>HI</b> (1100 lm/ft) QS <b>RGB</b> (125 lm/ft) QS <b>TUNE</b> (2700K-6500K, 90 CRI, 416/450 lm/ft) QS <b>RGBW</b> (3500K, White, 80 CRI, 325 lm/ft) QS <b>CSTM</b> (Enter lumens in product code above. Ex. 0100=100lm/ft) B. CRI <sup>8</sup> QS <b>NO CRI/CCT</b> <sup>7</sup> QS <b>80</b> QS <b>90</b> QS <b>BIOS</b> (STATIC BIOS) QS <b>3500K</b> QS <b>4000K</b> QS <b>BIOSD</b> (DYNAMIC BIOS) C. CCT <sup>8</sup> QS <b>2700K</b> QS <b>3000K</b> QS <b>3500K</b> QS <b>4000K</b> *For delivered lumens and watts, see 'Performance Details' *CRI/CCT options not applicable for TUNE, RGB, or RGBW lamping *Choose when TUNE, RGB, or RGBW is desired output *Static BIOS SkyBlue® 490nm LED is always on, Dynamic BIOS SkyBlue® 490nm LED can be tuned out with most LED driver and dimmer combinations. See pages 10-11 for details. *90 CRI only. 2700K is not available in BIOS options *Consult ALW for custom lumen packages.	QS <b>V00</b> (0-10V, dim to 0%) QS <b>V01</b> (0-10V, dim to 1%) QS <b>V05</b> (0-10V, dim to 5%) QS <b>P01</b> (Phase, dim to 1%) QS <b>LDE1</b> (Lutron ECOSYS1, 0-10V, dim to 1%) QS <b>LTEA</b> (Lutron HL-Lume, Phase dim, 2-wire to 1%) QS <b>TSERIES</b> (Lutron Tuneable White) QS <b>ELDVO</b> (eldoLED, 0-10V, dim to 0%) QS <b>ELDDW</b> (eldoLED dim to warm) QS <b>DALI</b> (DALI, dim to 0%) QS <b>DMX</b> (DMX, dim to 0%) QS <b>POEM</b> (POE Molex) QS <b>POEI</b> (POE IGOR) QS <b>POEN</b> (POE Nuleds) QS <b>POE</b> (POE Ready) *See 'Driver', 'Sensor' and lamping charts for driver details and sensor compatibility. *Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice.	QS <b>EXT</b> Diffuse lens *Looking for an asymmetric lens? Refer to ALW's SP2.5R or SP4R fixtures.	QS <b>N</b> None. Select when Accent Downlight Lamping not desired. A. SPOT QS <b>DL800</b> (800 lm/ft) QS <b>DL1000</b> (1000 lm/ft) QS <b>DL1500</b> (1500 lm/ft) B. CRI <sup>8</sup> QS <b>80</b> QS <b>90</b> C. CCT QS <b>2700K</b> QS <b>3000K</b> QS <b>3500K</b> QS <b>4000K</b> D. BEAM SPREAD QS <b>25</b> QS <b>40</b> *Downlights are not available in BIOS options as the COB is too large to fit in downlight housing.

**TW = TEXTURED WHITE FINISH**

8. ACCESSORY-ACCENT DOWNLIGHT (CHOOSE 1)	9. DRIVER - ACCENT DOWNLIGHT (CHOOSE 1)	10. QUANTITY - ACCENT DOWNLIGHT (CHOOSE 1)	11. FINISH (CHOOSE 1)
QS <b>N</b> None QS <b>HEX</b> Hexcell louver QS <b>SNT</b> Snoot QS <b>HEXSNT</b> Both Hexcell louver and Snoot 	QS <b>N</b> None. Select when Accent Downlight Lamping not desired. [ ] <sup>12</sup> Manually type code for desired driver in product code above. *Accent downlights not available with TSERIES and ELDO/DW driver types.	QS <b>N</b> None Type total quantity of downlights per run length in product code on previous page. (Maximum 1x for 2-3ft., 2x for 4-5ft, and 3x for 6-8ft.)	STANDARD FINISHES QS <b>AL</b> Anodized Aluminum QS <b>SW</b> Satin White QS <b>SB</b> Satin Black See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze) SPECIAL ORDER FINISHES QS <b>RAL</b> Specify RAL Classic Color (Ex: RAL 3003) - QS <b>CAT</b> Specify Catalog Colors QS <b>CCM</b> Custom Color Match *Manually type in the finish code for special order finishes.

CONTINUES ON NEXT PAGE

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS".  
NOTE: Maximum 800 ft. of QuickShip-eligible product per order.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S18-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
**Notes:** S-MOD: 700lm/ft

**Type:**  
**R200-18'**

MID23-74318



### PRODUCT SPECIFICATION SHEET CONT'D

12. VOLTAGE (CHOOSE 1)	13a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)
QS <b>UNV</b> Universal Voltage (120VAC-277VAC) <b>347</b> 347 Volt (Driver options may be limited. Not available with EMB)	QS <b>EMB/___</b> <sup>13</sup> Emergency Battery (indicate QTY – each battery powers 4ft. section @ 1492lm. Not available in 347 V)  QS <b>EMC/___</b> <sup>13</sup> Emergency Circuit (indicate QTY of 4ft sections to be illuminated by emergency circuit)  <sup>13</sup> For fixtures under 4ft in length, entire fixture will be illuminated with a proportional lumen output. Consult ALW for more details.

13b. SENSOR OPTIONS* (OPTIONAL, CHOOSE 1)	13c. ADDITIONAL OPTIONS* (OPTIONAL)
<b>N</b> (None) <b>WLN/INT/___</b> (Cooper Wavelinx, integral) <b>WLN/___</b> (Cooper Wavelinx, remote) QS <b>ENL/INT/___</b> (Enlighted, remote) QS <b>ENL/INT/___</b> (Enlighted, integral) <b>VRF/___</b> (Lutron Vive, integral) <b>VDO/___</b> (Lutron Vive, integral+ occ/daylight sensor) <b>FCJS/___</b> (Lutron, remote) <b>FCJS/S/___</b> (Lutron, remote + occ/daylight sensor) <b>MLX/INT/___</b> (Molex POE, integral)	<b>MLX</b> (Molex POE, remote) <b>NLT/INT/___</b> (nLight wired, integral occ/daylight sensor) <b>NLT</b> (nLight wired remote connection) <b>NLTAIR/INT/___</b> (nLight AIR, integral) <b>NLTAIR</b> (nLight AIR, remote connection) <b>OS/PH/INT/___</b> (Acuity 0-10VDC integral occ/daylight sensor) <b>OS/INT/HV/___</b> (Legrand Wattstopper High Voltage integral occ/daylight sensor) QS <b>OS/PH/HV/___</b> (Hubbel WASP remote occ/daylight sensor)  QS <b>CP</b> Chicago Plenum Certification

\*Quickship availability on occupancy and photocell/daylight sensors may vary. Contact ALW for more information.  
 \*Default quantity is 1 sensor per 8ft, type alternate quantity into product code above if desired. Sensor descriptions available on page 13.  
 \*Not all sensors are compatible with all drivers. See 'Driver', 'Sensor' and lamping charts for driver details and sensor compatibility.

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS".  
 NOTE: Maximum 800 ft. of QuickShip-eligible product per order.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S18-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: S-MOD: 700lm/ft

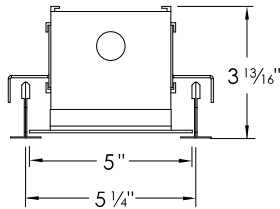
**Type:**  
**R200-18'**

MID23-74318

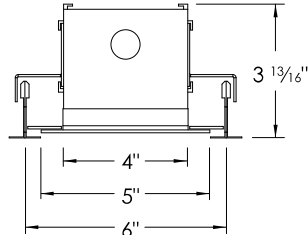


**MECHANICAL DIAGRAMS**

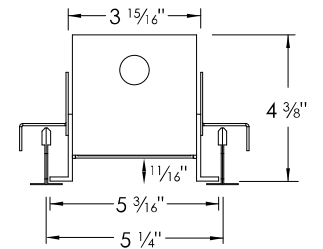
**T-GRID**



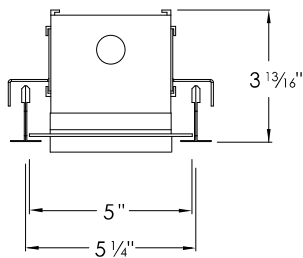
**LP3.5RT  
TGRID**



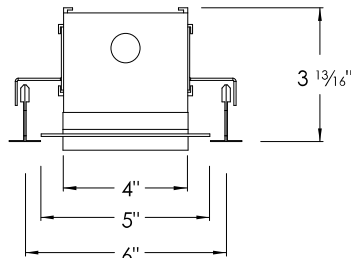
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ATZ/TGRID**



**LP3.5RTRL  
TGRID**

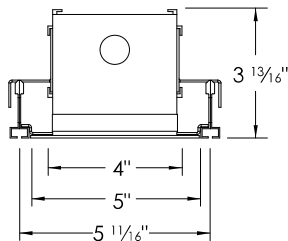


**LP3.5RTDL  
TGRID**

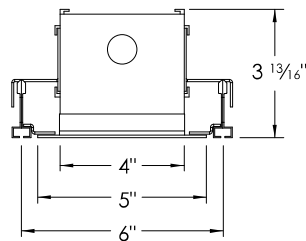


**LP3.5RTDL  
ATZ/TGRID**

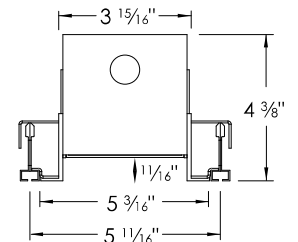
**SLOT**



**LP3.5RT  
SLOT**



**LP3.5RT  
ATZ/SLOT**



**LP3.5RTRL  
SLOT**

Rev 120622



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S18-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: S-MOD: 700lm/ft

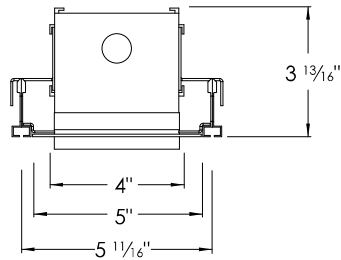
**Type:**  
**R200-18'**

MID23-74318

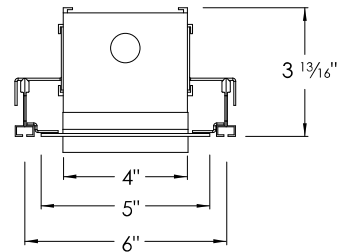


**MECHANICAL DIAGRAMS CONT'D**

**SLOT CONT'D**

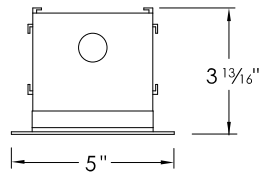


**LP3.5RTDL  
SLOT**



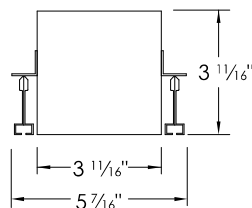
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ATZ/SLOT**

**TRIMMED**

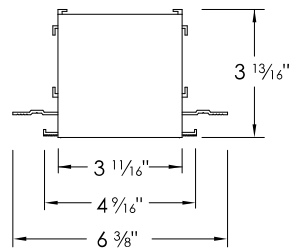


**LP3.5RT  
DRY**

**TRIMLESS**



**LP3.5RHF  
TGRID AND SLOT**



**LP3.5RMUD  
DRY**



**Job Name:**  
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 LP3.5RT-TGRID-S18-700LF/80/3500-0/  
 10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
 Notes: S-MOD: 700lm/ft

**Type:**  
**R200-18'**  
 MID23-74318



**STANDARD FINISHES**

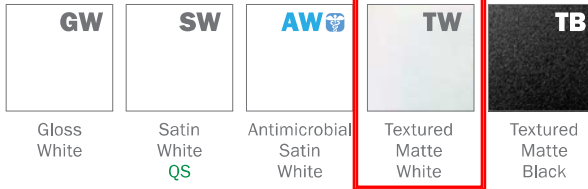
Standard finishes are available at no additional charge.

**ALUMINUM**



Anodized Aluminum  
 QS

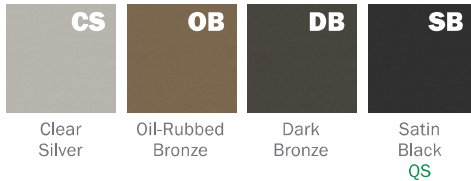
**BASIC POWDER COAT**



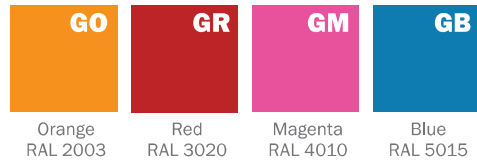
**METALLIC POWDER COAT**



**SATIN ANODIZED EFFECT POWDER COAT**



**GLOSS POWDER COAT (80-95% GLOSS)**



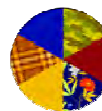
Contact ALW Quotes for sample paint finish swatches.

**SPECIAL ORDER FINISHES\***



**RAL CLASSIC COLORS (80-95% GLOSS): RAL\_ \_ \_ \_**

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003). See [www.alwusa.com/finishes](http://www.alwusa.com/finishes)



**CUSTOM COLOR MATCH: CCM\_ \_ \_ \_**

Custom powder coat color matching is available for a premium setup fee. Consult ALW for additional information.



**CATALOG COLORS: CAT\_ \_ \_ \_**

The complete range of powder coat colors from Tiger Drylac and TCI catalogs are available for a minimum setup fee. Consult ALW for a catalog color you would like to specify.

\*An individual setup fee will apply to each unique Special Order Finish per purchase order.  
 (ex: RAL 5023 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)

\*Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying)



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10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
**Notes:** S-MOD: 700lm/ft

**Type:**  
**R200-18'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™

ALW is committed to providing the highest quality luminaires for a multitude of applications, with many versatile lighting solutions that contribute to satisfying the WELL Building Standard. Below is a quick guide to assist you in specifying appropriate product configurations for WELL features. Links to official WELL standards can be found [here](#).

### CIRCADIAN LIGHTING DESIGN FEATURE L03

The Circadian Lighting Design feature requires projects to provide users with appropriate exposure to light for maintaining circadian health and aligning the circadian rhythm with the day-night cycle.

To conform to these requirements, the project must meet one of the following 4 light level options (a, b, c, or d) below. These light levels are measured on the vertical plane at eye level of the occupant. The light levels are achieved at least between the hours of 9 a.m. and 1 p.m. and may be lowered after 8 p.m. at night.

DESIGNING WITH ELECTRIC LIGHT ONLY	DESIGNING WITH BOTH ELECTRIC LIGHT & DAYLIGHT	POINTS
a. At least 150 EML [136 melanopic equivalent daylight D65]	b. The project achieves at least 120 EML [109 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	1
c. At least 240 EML [218 melanopic equivalent daylight D65]	d. The project achieves at least 180 EML [163 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	3

Choose from a BIOS Static or BIOS Dynamic light engine to assist in a healthy, circadian lighting design. CCT, CRI, Luminous Flux Multipliers, and Melanopic Ratios are shown below for easy specification.

CIRCADIAN LIGHTING DESIGN (3PT MAX)	BIOS STATIC (BIOS)			BIOS DYNAMIC (BIOSD)			HOW TO SPECIFY
<b>CCT</b>	3000K	3500K	4000K	3000K	3500K	4000K	1. Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b> 2. Select the appropriate Lumen <b>OUTPUT</b> 3. Select the appropriate <b>CCT</b>
<b>CRI / R9</b>	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	
<b>LUMINOUS FLUX MULTIPLIER</b>	0.95	0.98	1.00	0.95	0.98	1.00	See BIOS LED Lamping and Performance Details at the back of this spec sheet for lumen outputs, COI index values, and other additional information.
<b>MELANOPIC RATIO (R)*</b>	0.70	0.80	0.90	0.74	0.83	0.95	

### GLARE CONTROL FEATURE L04

Glare is defined as excessive brightness of a light-source, excessive brightness-contrasts and excessive quantities of light. Glare has been associated with a host of health issues that range from visual discomfort and eye fatigue to headaches and migraines.

To conform to Glare Control requirements, each luminaire must meet one of the following options (a, b, or d) for regularly occupied spaces.

GLARE CONTROL CRITERIA (3PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. Indirect (100% emission above horizontal)	✓	-	-
b. Unified Glare Rating (UGR)*	✓	12.2 @ 16ft (HI Output) 10.94 @ 20ft (HI Output)	1. Select <b>ANY</b> output for <b>LED LAMPING</b> 2. Select <b>ANY</b> option for <b>BASE MODEL</b>
c. Shielding Angle	No	-	-
d. Max. Luminance (45°-90°) Max. Intensity (45°-90°)	✓	5924 cd/m <sup>2</sup> @ LOW Output 453.37 cd @ MED Output	1. Select an output of <b>LOW</b> for <b>LED LAMPING</b> 2. Select <b>ANY</b> option for <b>BASE MODEL</b>

\*Advertised UGR values are averages and were calculated in AGI32 using the following method: 1) A 5.4m x 3.6m room was created and fixtures were spaced 2m apart center-to-center. Calculations were performed at 16ft. and 20ft.

Rev 120622

**LP3.5R - SPECIFICATIONS  
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**ALWUSA.COM**  
7 of 17



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

LP3.5RT-TGRID-S18-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: S-MOD: 700lm/ft

**Type:**

**R200-18'**

MID23-74318



## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™ (CONTINUED)

### ELECTRIC LIGHT QUALITY - PART 1: COLOR RENDERING QUALITY + PART 2: FLICKER FEATURE L07

Using light sources that have characteristics similar to daylight, including high color rendering and minimal flicker can improve comfort and well-being of users in a space and contribute to creating a healthy environment.

Part 1: Each luminaire must meet one of the following requirements (a or b) for regularly occupied spaces.

Part 2: Each luminaire must meet the IEEE 1789-2015 Standard Recommended Practice to manage flicker.

<b>PART 1 - ENSURE COLOR RENDERING QUALITY (1PT MAX)</b>	<b>COMPLIANT</b>	<b>VALUE</b>	<b>HOW TO SPECIFY</b>
a. CRI > 90	✓	CRI = 93 - 95	• Select <b>90</b> (90CRI) for <b>LED LAMPING</b>
b. CRI > 80 with R9 > 50	✓	CRI = 83, R9 > 90	• Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b>
c. IES Rf ≥ 78, IES Rg ≥ 100, -1% ≤ IES Rcs, h1 ≤ 15%	No	-	-
<b>PART 2 - MANAGE FLICKER (1PT MAX)</b>	<b>COMPLIANT</b>	<b>VALUE</b>	<b>HOW TO SPECIFY</b>
Meets IEEE 1789-2015 Standard Recommended Practice	✓	Modulation = 1% Flicker Frequency = 120 - 2000Hz	• Select <b>0/10V/S, 0/10V/1%, ECOSYS1, DALI</b> or <b>DMX</b> for <b>LED DRIVER</b>





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10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: S-MOD: 700lm/ft

**Type:**

**R200-18'**

MID23-74318

**PERFORMANCE DETAILS**

OUTPUT	DELIVERED LUMENS/FT	EFFICACY (LM/W)	WATTS/FT <sup>14</sup>	CRI OPTIONS	CCT OPTIONS
LOW <sup>15</sup>	635	Up to ~103	6.2	80 90	2700K (90CRI Only) 3000K 3500K 4000K 5000K
MIN <sup>15</sup>	870		8.4		
HI <sup>15</sup>	1100		10.7		
TUNE	WW: 416, CW: 450	Up to ~107	8.4	90+	
RGB <sup>16</sup>	125	N/A	5	N/A	
RGBW <sup>17</sup>	RGB: 122 RGB+W: 325 White Only: 203		5x	80 (White Chip)	

<sup>14</sup>Lumens/Watt and Watts/ft have been calculated assuming a driver efficiency of 85%. Depending on field conditions, actual measured values may fluctuate by 5-8%.

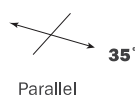
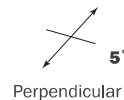
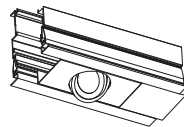
<sup>15</sup>Performance calculations are based on LM-79 test of HI output at 80 CRI and 4000K. LOW and MED calculations are extrapolated values.

<sup>16</sup>Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue).

<sup>17</sup>Performance calculations are derived from the following LM-79 tests: 1) RGB LEDs illuminated, 2) RGB+W LEDs illuminated, 3) White LED only illuminated.

**PERFORMANCE DETAILS - ACCENT/DOWNLIGHT LAMPING**

SPOT	DELIVERED LUMENS (LM)	WATTS (W)	EFFICACY (LM/W)	CRI	CCT OPTIONS	BEAM SPREAD OPTIONS (DEGREES)
DL800	800	5.1	157	80 90	2700K 3000K 3500K 4000K	25 40
DL1000	1000	6.7	150			
DL1500	1500	10.5	143			

**AIMING**

Rev 120622

**LP3.5R - SPECIFICATIONS**  
**RECESSED**

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9 of 17



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**Catalog Number:**  
LP3.5RT-TGRID-S18-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
**Notes:** S-MOD: 700lm/ft

**Type:**  
**R200-18'**  
MID23-74318

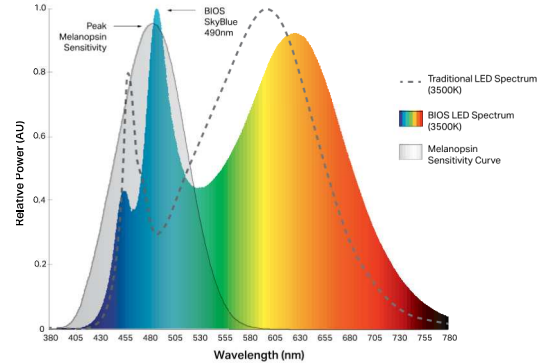


**BIOS OVERVIEW**



BIOS SkyBlue® technology is designed to provide the specific circadian stimulus required to improve overall sleep by **featuring a distinct peak in the 'skyblue' spectral power at 490nm**. Unlike traditional white LEDs, BIOS SkyBlue® makes it possible to achieve **high EML (Equivalent Melanopic Lux) and Melanopic/Photopic ratios** without harsh CCTs or high, glare-inducing light levels.

BIOS light engines are available in **Static** or **Dynamic** options for use with a variety of applications. In Static light engines, the SkyBlue 490nm signal always remains on while the fixture is powered. Dynamic options include a dynamic board and Bio-Dimmer module to allow the user to dim-out the SkyBlue 490nm signal during night time hours.



	<b>BIOS STATIC (BIOS)</b>	<b>BIOS DYNAMIC + BIO-DIMMING™ (BIOSD)</b>
<b>DESCRIPTION</b>	490nm SkyBlue light signal always remains on while the fixture is powered.	Dynamic light engine with Bio-Dimming add the ability to fine-tune and dim-out the 490nm SkyBlue signal during night time hours or as desired.
<b>TYPICAL APPLICATIONS</b>	Environments typically occupied only during daylight hours (6am - 8pm) such as offices and schools.	Environments occupied for a 24-hour period such as hospitals, security facilities, behavioral health facilities, factories, etc.
<b>CONTROLS &amp; DIMMING*</b>	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS melanopic ratio remains constant as you dim down the light intensity.	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS SkyBlue® LED can be dimmed-out using a standard control/dimmer.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.

**BIOS LED LAMPING DETAILS (STATIC OR DYNAMIC)**

<b>OUTPUT</b>	<b>DELIVERED LUMENS (LM/FT)</b>	<b>WATTS (W/FT)</b>	<b>EFFICACY (LM/W)</b>	<b>CRI OPTIONS</b>
<b>LOW<sup>18</sup></b>	635	6.2	Up to ~103	82+
<b>MED<sup>18</sup></b>	870	8.4		
<b>HI<sup>18</sup></b>	1100	10.7		

**BIOS LED PERFORMANCE DETAILS**

<b>CCT</b>	<b>CRI (Ra)</b> <small>Static BIOS Dynamic BIOS</small>	<b>CRI (R9)</b> <small>Static BIOS Dynamic BIOS</small>	<b>DAYTIME M/P RATIO<sup>19</sup></b> <small>Static BIOS Dynamic BIOS</small>	<b>NIGHTTIME M/P RATIO<sup>20</sup></b> <small>Static BIOS Dynamic BIOS</small>	<b>COI<sup>21</sup></b> <small>Static BIOS Dynamic BIOS</small>
<b>3000K</b>	82	94	0.70	0.70	3.0
	83	90	0.73	0.45	3.3
<b>3500K</b>	83	91	0.80	0.80	3.1
	83	90	0.84	0.50	3.1
<b>4000K</b>	83	91	0.90	0.90	3.1
	83	90	0.95	0.55	3.1

<sup>18</sup>Performance calculations are based on LM-79 test of BIOS 4000K, HI output. LOW and MED calculations are extrapolated values.

<sup>19</sup>Melanopic to photopic (M/P) ratios are used to help calculate equivalent melanopic lux (EML) values which is the metric used for circadian lighting in the WELL™ Building Standard.

<sup>20</sup>Static LED nighttime M/P ratios remain the same as daytime M/P ratios as BIOS SkyBlue® always remains at full output.

<sup>21</sup>BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.



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10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
Notes: S-MOD: 700lm/ft

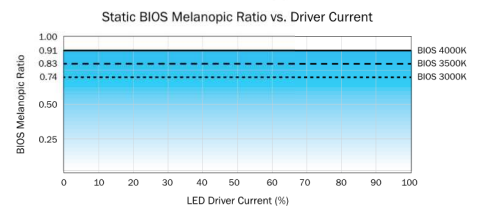
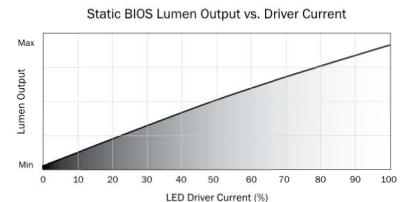
**Type:**  
**R200-18'**  
MID23-74318



**BIOS STATIC DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	LIGHT OUTPUT* (BIOS SKYBLUE® + WHITE LED)		BIOS + White LED Intensity Dimming
100%* (Full On)	100%		
99% - 51%	Linear Dimming 99% - 51%		
50%	Linear Dimming 50%		
49% - 0%	Linear Dimming 49% - 0%		

BIOS SkyBlue® LED and White LED dim with a 1-to-1 ratio.



\*While melanopic ratio remains constant, dimming/reducing light output will have an overall impact on Equivalent Melanopic Lux (EML). That is because  $EML = \text{Vertical Lux} \times \text{melanopic ratio}$ . Therefore, if you reduce light levels by dimming the LEDs, you will reduce your effective EML, even when the melanopic ratio stays constant.

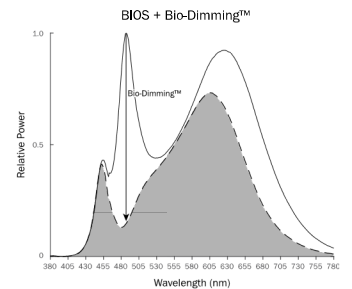
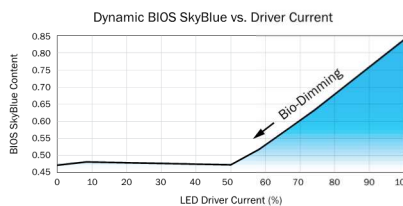
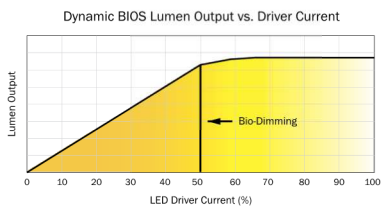
**BIOS DYNAMIC + BIO-DIMMING™ DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT	
100%* (Full On)	100%	100%	100%	Bio-Dimming
99% - 51%	100% - 0%	100%	100% - 90%	
50%	NO BIOS	100%	~90%	White LED Intensity Dimming
49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	

BIOS SkyBlue® maintained for maximum circadian impact.  
Light output remains relatively constant.

BIOS SkyBlue® removed to provide minimal circadian impact.  
White LED output dims linearly.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.



Rev 120622



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10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
**Notes:** S-MOD: 700lm/ft

**Type:**  
**R200-18'**

MID23-74318

**DRIVERS**

PRODUCT CODE	DESCRIPTION
<b>N</b>	None. Choose when indirect lamping is not desired.
<b>V00</b>	0-10V dimming down to 0% (dim to off).
<b>V01</b>	0-10V dimming down to 1%.
<b>V05</b>	0-10V dimming down to 5% (Down to 10% for TUNE lamping).
<b>P01</b>	ELV/TRIAC Phase dimming down to 1%
<b>LDE1</b>	(LDE1) Lutron Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
<b>LTEA</b>	(LTEA) Lutron Hi-Lume 1% 2-wire TRIAC dimming (120V forward-phase only).
<b>TSERIES</b>	Lutron T-Series Tunable White Class 2 LED Driver (For use with Lutron Quantum Control Systems)
<b>ELDV0</b>	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)
<b>ELDDW</b>	eldoLED 0/10V dim-to-warm dimming down to 0% (specify with TUNE LED lamping. Driver will be programmed with LightShape dim-to-warm setting)
<b>DALI</b>	DALI flicker-free dimming down to 0%.
<b>DMX</b>	DMX flicker-free dimming down to 0%.
<b>POEM</b>	Molex CoreSync PoE LED Driver. Contact ALW to assist with your project.
<b>POEI</b>	IGOR PoE LED Driver. Contact ALW to assist with your project.
<b>POEN</b>	NuLEDS PoE LED Driver. Contact ALW to assist with your project.
<b>POE</b>	Specify a PoE driver of your choice. Fixture comes with low voltage leads and no LED driver. Contact ALW to assist with your project

\*Most drivers can be programmed to specific dimming levels if desired. Contact ALW for specific dimming level requests. ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

DRIVER/LED LAMPING COMPATIBILITY							
	STD	STD/BIOS	TUNE	RGB	RGB(W)	CA TITLE 24 JA8/JA10 <sup>22</sup>	IEEE P1789 & HD TV STUDIO <sup>23</sup>
<b>V00</b>	●	●	●			●	
<b>V01</b>	●	●	●			●	
<b>V05</b>	●	●	●			●	
<b>P01</b>	●	●				●	
<b>LDE1</b>	●	●				●	●
<b>LTEA</b>	●	●				●	
<b>TSERIES</b>			●			●	●
<b>ELDV0</b>	●	●	PER REQUEST			●	●
<b>ELDDW</b>			●				
<b>DALI</b>	●	●	●			●	
<b>DMX</b>	●		●		●	PER REQUEST	PER REQUEST
<b>POEM</b>			PER REQUEST			●	●
<b>POEI</b>			PER REQUEST			●	●
<b>POEN</b>			PER REQUEST			●	●

● - Indicates compatibility

\* Standard lamping (STD) - LOW/MED/HI

<sup>22</sup> Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to California Title 24 JA8 and JA10 Appendices

<sup>23</sup> The following drivers conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.

Rev 120622

**LP3.5R - SPECIFICATIONS**  
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**ALWUSA.COM**  
**12 of 17**



**Job Name:**  
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Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S18-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
**Notes:** S-MOD: 700lm/ft

**Type:**  
**R200-18'**

MID23-74318

**SENSORS**

	PRODUCT CODE	DESCRIPTION	Location
	<b>N</b>	None. Choose when sensors are not desired.	-
<b>COOPER WAVELINX</b>	<b>WLNX/INT</b>	Wavelinx Wireless integral occ/daylight sensor (WaveLinX part: OEM-WAA)	Integral
	<b>WLNX</b>	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Remote
<b>ENLIGHTED™</b>	<b>ENLGH/INT</b>	Enlighted integral connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5E-CL)	Integral
	<b>ENLGH</b>	Enlighted® remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote
<b>LUTRON VIVE</b>	<b>VRF</b>	Lutron® Vive integral RF wireless fixture control (Lutron Part: DFCSJ-OEM-RF)	Integral
	<b>VDO</b>	Lutron® Vive integral RF wireless fixture control + daylight/occ sensor (Lutron Part: DFCSJ-OEM-OCC)	Integral
	<b>FCJS</b>	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote
	<b>FCJS/S</b>	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	Molex CoreSync PoE Integral Fixture-Mounted Sensor R - occ/daylight/temperature/humidity (Molex Part: 182091-1000)	Integral
	<b>MLX</b>	Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from	Remote
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	Fixture is built with nLight Wired integral components specified by agency. Contact ALW to review project details.	Integral
	<b>NLT</b>	Fixture is built to connect to nLight Wired remote components specified by agency. Contact ALW to review project details.	Remote
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	Fixture is built with nLight Air (Wireless) components specified by agency. Contact ALW to review project details.	Integral
	<b>NLTAIR</b>	Fixture is built to connect to nLight Air (Wireless) remote components specified by agency. Contact ALW to review project details.	Remote
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	Acuity 0-10VDC Integral occ/daylight sensor (Acuity Part: MSD 7 ADC WH) Automated Dimming Functionality Only. Manual Dimming not available. Customer to set sensor functionality in the field. Lowest dim level depends on driver.	Integral
	<b>OS/INT/HV</b>	Legrand Wattstopper <b>High Voltage</b> Integral occ/daylight on/off sensor (Part: FS-355) On/Off or Manual Dimming Functionality Only (based on occupancy and daylight). Connect fixture 0/10V wires to wall dimmer in the field. No Automated Dimming available.	Integral
	<b>OS/PH/HV</b>	Hubbell WASP <b>High Voltage</b> 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDSMUNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Remote

\*All connected lighting sensors/systems must be programmed in the field by an electrical commissioner familiar with the system. Refer to the 'Sensor Compatibility' and 'Driver/Sensor Compatibility' charts to specify compatible sensors, LED lamping, and LED driver systems.

Rev 120622

**LP3.5R – SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
**13 of 17**



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10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: S-MOD: 700lm/ft

**Type:**

**R200-18'**

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**SENSORS CONT'D**

SENSOR COMPATIBILITY								
PRODUCT CODE		SENSOR TYPE	MAX MT HT	CA TITLE 24	STD*	TUNE	RGB	RGB(W)
COOPER WAVELINX	WLN/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	WLN		15 ft	●	●			
ENLIGHTED™	ENLGH/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●	CUSTOM REQUEST		
	ENLGH	OCCUPANCY/PHOTOCELL	40 ft	●	●	CUSTOM REQUEST		
LUTRON VIVE	VRF	WIRELESS CONTROL	12 ft	●	●			
	VDO	OCCUPANCY/PHOTOCELL	12 ft	●	●			
	FCJS	WIRELESS CONTROL	12 ft	●	●			
	FCJS/S/	OCCUPANCY/PHOTOCELL	12 ft	●	●			
MOLEX POE CORESYNC	MLX/INT	OCCUPANCY/PHOTOCELL TEMPERATURE/HUMIDITY	16 ft	●	●			
	MLX		16 ft	●	●	●	CUSTOM REQUEST	CUSTOM REQUEST
NLIGHT WIRED®	NLT/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	NLT		15 ft	●	●			
NLIGHT WIRELESS®	NLTAIR/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	NLTAIR		15 ft (average)	●	●			
VALUE SENSORS	OS/PH/INT	OCCUPANCY/PHOTOCELL	15 ft		●			
	OS/INT/HV	OCCUPANCY/PHOTOCELL	15 ft	●	●	■	■	■
	OS/PH/HV	OCCUPANCY/PHOTOCELL	45 ft	●	●	■	■	■

● - Indicates compatibility ■ - On/off sensor functionality only

\*Standard lamping (STD) - LOW/MED/HI

Rev 120622

**LP3.5R - SPECIFICATIONS  
RECESSED**

**ALWUSA.COM  
14 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-TGRID-S18-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: S-MOD: 700lm/ft

**Type:**  
**R200-18'**

MID23-74318



**SENSORS (CONT'D)**

DRIVER/SENSOR COMPATIBILITY									
	WLNx/INT	WLNx	ENLGHt/ INT	ENLGHt	VRF	VDO	FCJS	FCJS/S /	MLX/INT
V00	●	●	●	●			●	●	
V01	●	●	●	●			●	●	
V05	●	●	●	●			●	●	
P01									
LDE1					●	●	●	●	
LTEA									
TSERIES									
ELDVO									
ELDDW									
DALI					●	●			
DMX									
POE/ MOLEX									●
POE/IGOR	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ NULEDS	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ READY	Sensor types will depend on the PoE system configuration. Contact ALW for details.								

- - Indicates compatibility
- ▲ - Fixture can have automated dimming via sensor OR on/off functionality and manual dimming
- - On/off sensor functionality only

DRIVER/SENSOR COMPATIBILITY CONT'D									
	MLX	NLT/INT	NLT	NLTAIR/INT	NLTAIR	OS/PH/INT	OS/INT/HV	OS/PH/HV	NO SENSOR
V00						●	■	▲	●
V01						●	■	▲	●
V05						●	■	▲	●
P01							■	■	●
LDE1									●
LTEA							■	■	●
TSERIES							■	■	●
ELDVO		●	●	●	●	●	■	▲	●
ELDDW							■	■	●
DALI							■	■	●
DMX							■	■	●
POE/ MOLEX	●								●
POE/IGOR	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ NULEDS	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ READY	Sensor types will depend on the PoE system configuration. Contact ALW for details.								

Rev 120622

**LP3.5R - SPECIFICATIONS  
RECESSED**

**ALWUSA.COM  
15 of 17**





**Job Name:**  
DUTCHESS STADIUM  
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**Catalog Number:**

LP3.5RT-TGRID-S18-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: S-MOD: 700lm/ft

**Type:**

**R200-18'**

MID23-74318

**PHOTOMETRICS**

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC) <sup>24</sup> (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
<b>EXT</b>		6 ft	22.8	1.24 1.24	784.4	1100
		8 ft	12.3			
		10 ft	7.8			
		12 ft	5.4			
		14 ft	4			
		16 ft	3.1			

\*Photometric calculations based on HI 4000K 80 CRI fixture combination. Actual results may vary in the field.

For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#).

<sup>24</sup> criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface.

Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).



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10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD  
**Notes:** S-MOD: 700lm/ft

**Type:**  
**R200-18'**

MID23-74318



## ADDITIONAL OPTIONS & SPECIFICATIONS

### LED PERFORMANCE

> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

### HOUSING

100% recyclable, extruded architectural grade 6061 aluminum with a 0.08" minimum wall thickness.

### LENS OPTIONS

Extruded, twin-layered, high-impact acrylic. EXT is white and extra diffuse with minimal- to no-source visibility.



FLUSH LENS – EXT/F

### SAFETY & REGULATORY

Fixtures specified with 90CRI, 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to **California Title 24 JA8 and JA10** Appendices. EidoLED drivers can conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'.

Contact [ALW customer support](#) today and we can help you with your project requirements..

ETL Listed (U.S. & Canada). Suitable for dry or damp locations. Conforms to UL std. 1598, Luminaires. Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2.

### WARRANTY

Limited 11-year warranty. Details: [alwusa.com/warranty](http://alwusa.com/warranty)

### OPERATING TEMPERATURE

Luminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from -4 °F to 122 °F (-20 °C to 50 °C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

### INTEGRAL DOWNLIGHTS

Optional, aimable accent downlights deliver 800-1500 lumens with a beam spread of 25° or 40°. Hex cell (HEX) and snoot (SNT) accessories are also available.



### CONTROLS, SENSORS, & LED DRIVER

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, nLight, Cooper Wavelinx, eldoLED, Molex PoE, NuLEDS PoE, Igor PoE, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact [ALW customer support](#) today so we can review your requirements.



### WEIGHT

Approximately 3 lbs. per linear foot (not including downlight option). Weight may vary depending on mounting, downlight, and additional options selected.

### WOOD VENEER

Most ALW fixture configurations are available with [real wood veneer](#) as a custom request. Contact [ALW customer support](#) so we can help you with your custom wood veneer request.

### CHICAGO PLENUM CERTIFICATION

Recessed fixtures for this product family are available to meet Chicago Plenum certification in continuous lengths. For Chicago Plenum options please contact ALW.

Rev 120622

**LP3.5R – SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
**17 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-DRY-S210-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:**  
**R200F-210'**

MID23-74318



# LIGHTPLANE 3.5R

LP3.5R | RECESSED



## SPECIFICATIONS

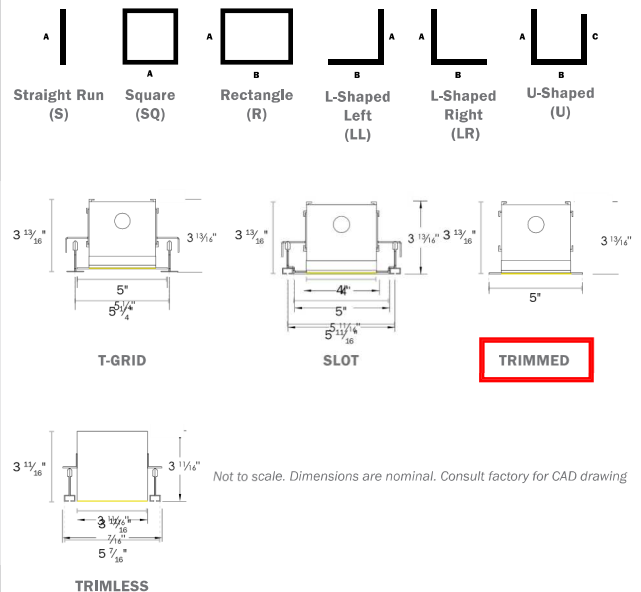
<b>PROFILE</b>	3.5" Aperture, 3 11/16" height
<b>SIZES</b>	Configurable linear sections and shapes. 2ft minimum length.
<b>LED OUTPUT</b>	125lm/ft - 1,100lm/ft. Accent downlights available (800/1000/1500lm Output Options).
<b>CCT/CRI</b>	2700K/3000K/3500K/4000K • 80 or 90+ CRI Tunable White (2700K - 6500K) • RGB and RGB+W
<b>DIMMING/ DRIVER</b>	Integral Driver: 0-10V, DALI, DMX, eidoLED, Lutron®, PoE (Molex, Igor, NuLEDS). Dimming to 0% for select models.
<b>POWER</b>	6.2W - 10.7W per ft
<b>INPUT</b>	120VAC, 277VAC, or 347VAC
<b>OPTICS</b>	Lambertian distribution
<b>FINISHES</b>	18 standard finishes at no extra charge. Custom finishes available.
<b>MATERIAL</b>	6061 Extruded Aluminum
<b>ENVIRONMENT</b>	Dry or damp locations

**WELL/UGR**

See pages 7-8 for recommended options that contribute to meeting the WELL Building Standard™. UGR values available under 'Glare Control' on page 7.

\*Safety and Performance information available on last page. Output and other specifications available on pages 9-10.

## DISTRIBUTIONS & PROFILES



Rev 120622

**LP3.5R - SPECIFICATIONS**  
**RECESSED**

**ALWUSA.COM**  
1 of 17



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
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**Catalog Number:**  
LP3.5RT-DRY-S210-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1xnon-90° inner corner + 1x 3-way 90°intersection + 1x same

**Type:**  
**R200F-210'**

MID23-74318



**PRODUCT SPECIFICATION SHEET**

**Approximately 212LF.**  
**See RCP for exact lengths. 1xnon-90° inner corner + 1x 3-way 90°intersection + 1x same plane 90°. 700lm/ft.**  
**Texture matte white finish. FACTORY DWG REQ**

1	2	3	4a	4b	4c	5	6	7a	7b	7c	7d	8	9	10	11	12	
13a	13b	13c	<b>EXAMPLE: LP3.5RT - DRY - S5 - MED/90/3500 - LTEA-EXT - DL1000/80/3500/25 - HEX - LTEA - 1 - SW - UNV</b>			1	2	3	4	5	6	7	8	9	10	11	12
<b>- EMB/1 - NL1 - CP</b>																	
13a 13b 13c																	

1. BASE MODEL (CHOOSE 1)	2. CEILING TYPE* (CHOOSE 1)	3. SHAPE/LENGTH (CHOOSE 1 & ENTER LENGTH IN FEET) - FOR CUSTOM ANGLES, CONTACT ALW
QS <b>LP3.5RT</b> 3.5" Trimmed w/Flush Lens QS <b>LP3.5RTDL*</b> 3.5" Trimmed w/Dropped Reveal lens QS <b>LP3.5RTRL</b> 3.5" Trimmed w/Regressed Lens QS <b>LP3.5RMUD</b> 3.5" Mud-in w/Flush Lens QS <b>LP3.5RHF</b> 3.5" Hidden Flange w/Flush Lens <small>*Not compatible with accent downlight.</small>	QS <b>DRY*</b> Drywall QS <b>TGRID*</b> I-Grid QS <b>SLOT*</b> Slot QS <b>ATZ/TGRID<sup>1,5</sup></b> Armstrong® Techzone T-Grid QS <b>ATZ/SLOT<sup>2,5</sup></b> Armstrong® Techzone Slot <small>*Additional ceiling types may be available, consult ALW.  <sup>1</sup>Not available with LP3.5RHF base model.  <sup>2</sup>Not available with LP3.6MUD base model.  <sup>3</sup>Only available with LP3.5RT and LP3.5RDL base models.  <sup>4</sup>All product and company names are trademarks or registered trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them.</small>	QS <b>S__</b> Individual/Straight Run Section (enter length in product code above, ex. S5) QS <b>SQ__</b> Square Configuration (enter side length A, ex: SQ5) QS <b>R__</b> Rectangular Configuration (enter side lengths A and B, ex. R5-7) QS <b>LL_</b> L-Shaped, Left Configuration (enter side lengths A and B, ex. LL5-7) QS <b>LR_</b> L-Shaped, Right Configuration (enter side lengths A and B, ex. LR5-7) QS <b>U_</b> U-Shaped Configuration (enter side lengths A, B, and C, ex. U5-7-4) <small>*Lengths are nominal and may vary based on lamping and other specification selections.                  Consult ALW when exact lengths are required.  <sup>5</sup>Shape orientation (Looking from the Ceiling down to the floor)</small>

**MOD = 700 LM/FT**

**212LF**

4. LED LAMPING* (CHOOSE 1 FOR EACH)	5. DRIVER* (CHOOSE 1)	6. LENS*	7. ACCENT - DOWNLIGHT* (CHOOSE 1 FOR EACH)
A. OUTPUT QS <b>LOW</b> (635 lm/ft) QS <b>MED</b> (870 lm/ft) QS <b>HI</b> (1100 lm/ft) QS <b>RGB</b> (125 lm/ft) QS <b>TUNE</b> (2700K-6500K) 90 CRI, 416/450 lm/ft QS <b>RGBW</b> (3500K, White, 80 CRI, 325 lm/ft) QS <b>CSTM</b> _____ <sup>10</sup> (Enter lumens in product code above. Ex. 0100=100lm/ft) <small><sup>7</sup>For delivered lumens and watts, see 'Performance Details'  <sup>8</sup>CRI/CCT options not applicable for TUNE, RGB, or RGBW lamping  <sup>9</sup>Choose when TUNE, RGB, or RGBW is desired output  <sup>10</sup>Static BIOS SkyBlue® 490nm LED is always on, Dynamic BIOS SkyBlue® 490nm LED can be tuned out with most LED driver and dimmer combinations. See pages 10-11 for details.  <sup>11</sup>90 CRI only. 2700K is not available in BIOS options  <sup>12</sup>Consult ALW for custom lumen packages.</small>	B. CRI* QS <b>NO CRI/CCT<sup>7</sup></b> QS <b>80</b> QS <b>2700K*</b> QS <b>90</b> QS <b>3000K</b> QS <b>BIOS*</b> QS <b>3500K</b> QS <b>4000K</b> (STATIC BIOS) (DYNAMIC BIOS) QS <b>BIOSD*</b> (DYNAMIC BIOS) <small><sup>13</sup>See 'Driver', 'Sensor' and lamping charts for driver details and sensor compatibility.  <sup>14</sup>Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice.</small>	QS <b>EXT</b> Diffuse lens <small>*Looking for an asymmetric lens? Refer to ALW's SP2.5R or SP4R fixtures.</small>	QS <b>N</b> None. Select when Accent Downlight Lamping not desired. A. SPOT QS <b>DL800</b> (800 lm/ft) QS <b>80</b> QS <b>2700K</b> QS <b>DL1000</b> (1000 lm/ft) QS <b>90</b> QS <b>3000K</b> QS <b>DL1500</b> (1500 lm/ft) QS <b>3500K</b> QS <b>4000K</b> D. BEAM SPREAD QS <b>25</b> QS <b>40</b>  <small>*Downlights are not available in BIOS options as the COB is too large to fit in downlight housing.</small>

**TW = TEXTURED WHITE FINISH**

8. ACCESSORY-ACCENT DOWNLIGHT (CHOOSE 1)	9. DRIVER - ACCENT DOWNLIGHT (CHOOSE 1)	10. QUANTITY - ACCENT DOWNLIGHT (CHOOSE 1)	11. FINISH (CHOOSE 1)
QS <b>N</b> None QS <b>HEX</b> Hexcell louver QS <b>SNT</b> Snoot QS <b>HEXSNT</b> Both Hexcell louver and Snoot  HEXCELL LOUVER      SNOOT	QS <b>N</b> None. Select when Accent Downlight Lamping not desired. _____ <sup>12</sup> Manually type code for desired driver in product code above. <small><sup>15</sup>Accent downlights not available with T SERIES and ELDO/DW driver types.</small>	QS <b>N</b> None _____ Type total quantity of downlights per run length in product code on previous page. (Maximum 1x for 2-3ft., 2x for 4-5ft, and 3x for 6-8ft.)	STANDARD FINISHES QS <b>AL</b> Anodized Aluminum QS <b>SW</b> Satin White QS <b>SB</b> Satin Black _____ <small>See chart on page 6 for more standard finishes. Manually type in the finish code (Ex: 0B = Oil-Rubbed Bronze)</small> SPECIAL ORDER FINISHES RAL_____ Specify RAL Classic Color (Ex: RAL 3003) - CAT_____ Specify Catalog Colors CCM_____ Custom Color Match <small>*Manually type in the finish code for special order finishes.</small>

CONTINUES ON NEXT PAGE →

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS".  
 NOTE: Maximum 800 ft. of QuickShip-eligible product per order.



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Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:****R200F-210'**

MID23-74318

**PRODUCT SPECIFICATION SHEET CONT'D**

12. VOLTAGE (CHOOSE 1)	13a. EMERGENCY OPTIONS (OPTIONAL, CHOOSE 1)
QS <b>UNV</b> Universal Voltage (120VAC-277VAC) <b>347</b> 347 Volt (Driver options may be limited. Not available with EMB)	QS <b>EMB/___</b> <sup>13</sup> Emergency Battery (indicate QTY — each battery powers 4ft. section @ 1492lm. Not available in 347 V)  QS <b>EMC/___</b> <sup>13</sup> Emergency Circuit (indicate QTY of 4ft sections to be illuminated by emergency circuit)  <sup>13</sup> For fixtures under 4ft in length, entire fixture will be illuminated with a proportional lumen output. Consult ALW for more details.

13b. SENSOR OPTIONS* (OPTIONAL, CHOOSE 1)	13c. ADDITIONAL OPTIONS* (OPTIONAL)
<b>N</b> (None) <b>WLN/INT/___</b> (Cooper Wavelinx, integral) <b>WLN/___</b> (Cooper Wavelinx, remote) QS <b>ENL/___</b> (Enlighted, remote) QS <b>ENL/INT/___</b> (Enlighted, integral) <b>VRF/___</b> (Lutron Vive, integral) <b>VDO/___</b> (Lutron Vive, integral+ occ/daylight sensor) <b>FCJS/___</b> (Lutron, remote) <b>FCJS/S/___</b> (Lutron, remote + occ/daylight sensor) <b>MLX/INT/___</b> (Molex POE, integral)	<b>MLX</b> (Molex POE, remote) <b>NLT/INT/___</b> (nLight wired, integral occ/daylight sensor) <b>NLT</b> (nLight wired remote connection) <b>NLTAIR/INT/___</b> (nLight AIR, integral) <b>NLTAIR</b> (nLight AIR, remote connection) <b>OS/PH/INT/___</b> (Acuity 0-10VDC integral occ/daylight sensor) <b>OS/INT/HV/___</b> (Legrand Wattstopper High Voltage integral occ/daylight sensor) QS <b>OS/PH/HV/___</b> (Hubbel WASP remote occ/daylight sensor)  QS <b>CP</b> Chicago Plenum Certification

\*Quickship availability on occupancy and photocell/daylight sensors may vary. Contact ALW for more information.  
 \*Default quantity is 1 sensor per 8ft, type alternate quantity into product code above if desired. Sensor descriptions available on page 13.  
 \*Not all sensors are compatible with all drivers. See 'Driver', 'Sensor' and lamping charts for driver details and sensor compatibility.

QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS".  
 NOTE: Maximum 800 ft. of QuickShip-eligible product per order.



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10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:**

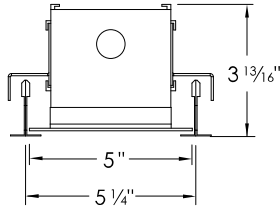
**R200F-210'**

MID23-74318

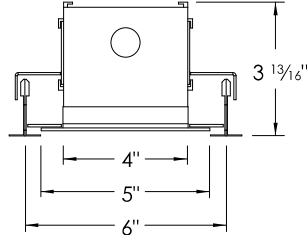


**MECHANICAL DIAGRAMS**

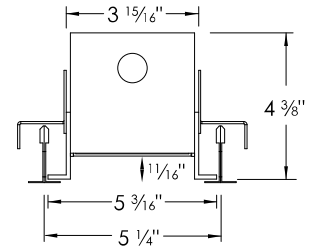
**T-GRID**



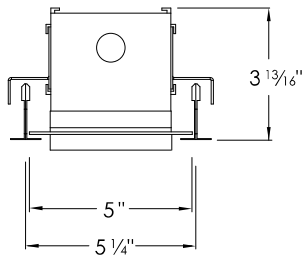
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TGRID**



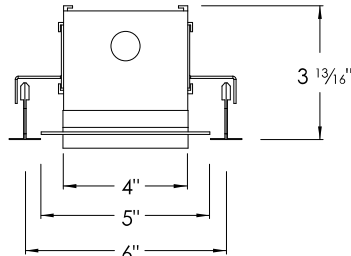
**LP3.5RT  
ATZ/TGRID**



**LP3.5RTRL  
TGRID**

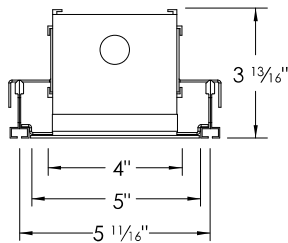


**LP3.5RTDL  
TGRID**

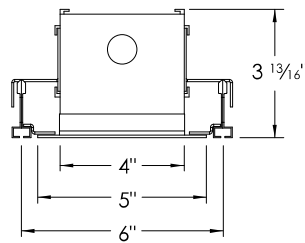


**LP3.5RTDL  
ATZ/TGRID**

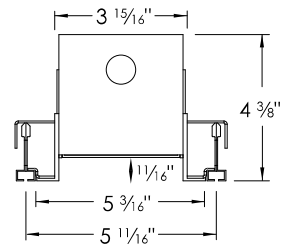
**SLOT**



**LP3.5RT  
SLOT**



**LP3.5RT  
ATZ/SLOT**



**LP3.5RTRL  
SLOT**



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10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:**

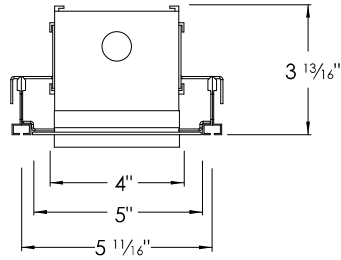
**R200F-210'**

MID23-74318

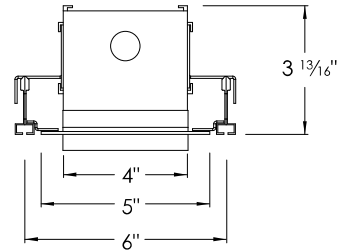


**MECHANICAL DIAGRAMS CONT'D**

**SLOT CONT'D**

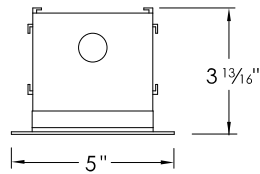


**LP3.5RTDL  
SLOT**



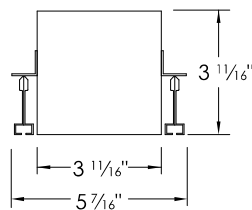
**LP3.5RTDL  
ATZ/SLOT**

**TRIMMED**

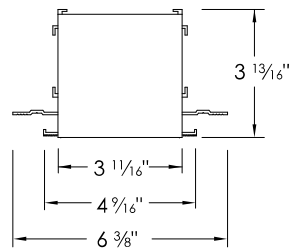


**LP3.5RT  
DRY**

**TRIMLESS**



**LP3.5RHF  
TGRID AND SLOT**



**LP3.5RMUD  
DRY**

Rev 120622

**LP3.5R - SPECIFICATIONS  
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**ALWUSA.COM  
5 of 17**





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**Catalog Number:**  
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Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:**  
**R200F-210'**

MID23-74318



**STANDARD FINISHES**

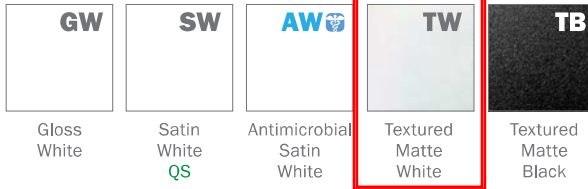
Standard finishes are available at no additional charge.

**ALUMINUM**



Anodized Aluminum  
QS

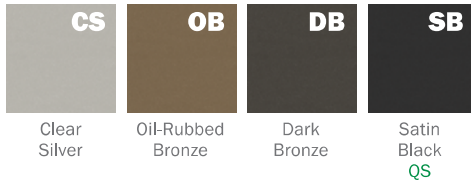
**BASIC POWDER COAT**



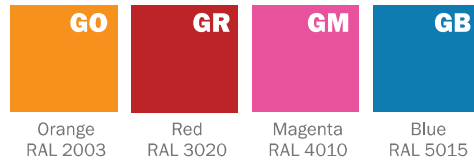
**METALLIC POWDER COAT**



**SATIN ANODIZED EFFECT POWDER COAT**



**GLOSS POWDER COAT (80-95% GLOSS)**



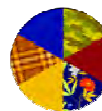
Contact ALW Quotes for sample paint finish swatches.

**SPECIAL ORDER FINISHES\***



**RAL CLASSIC COLORS (80-95% GLOSS): RAL\_ \_ \_ \_**

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003). See [www.alwusa.com/finishes](http://www.alwusa.com/finishes)



**CUSTOM COLOR MATCH: CCM\_ \_ \_ \_**

Custom powder coat color matching is available for a premium setup fee. Consult ALW for additional information.



**CATALOG COLORS: CAT\_ \_ \_ \_**

The complete range of powder coat colors from Tiger Drylac and TCI catalogs are available for a minimum setup fee. Consult ALW for a catalog color you would like to specify.

\*An individual setup fee will apply to each unique Special Order Finish per purchase order.  
(ex: RAL 5023 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)

\*Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying)



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

LP3.5RT-DRY-S210-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:**

**R200F-210'**

MID23-74318



**ALW**

## SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™

ALW is committed to providing the highest quality luminaires for a multitude of applications, with many versatile lighting solutions that contribute to satisfying the WELL Building Standard. Below is a quick guide to assist you in specifying appropriate product configurations for WELL features. Links to official WELL standards can be found [here](#).

### CIRCADIAN LIGHTING DESIGN FEATURE L03

The Circadian Lighting Design feature requires projects to provide users with appropriate exposure to light for maintaining circadian health and aligning the circadian rhythm with the day-night cycle.

To conform to these requirements, the project must meet one of the following 4 light level options (a, b, c, or d) below. These light levels are measured on the vertical plane at eye level of the occupant. The light levels are achieved at least between the hours of 9 a.m. and 1 p.m. and may be lowered after 8 p.m. at night.

DESIGNING WITH ELECTRIC LIGHT ONLY	DESIGNING WITH BOTH ELECTRIC LIGHT & DAYLIGHT	POINTS
a. At least 150 EML [136 melanopic equivalent daylight D65]	b. The project achieves at least 120 EML [109 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	1
c. At least 240 EML [218 melanopic equivalent daylight D65]	d. The project achieves at least 180 EML [163 melanopic equivalent daylight D65] with electric light and at least 2 points in Feature L05: Enhanced Daylight Access	3

Choose from a BIOS Static or BIOS Dynamic light engine to assist in a healthy, circadian lighting design. CCT, CRI, Luminous Flux Multipliers, and Melanopic Ratios are shown below for easy specification.

CIRCADIAN LIGHTING DESIGN (3PT MAX)	BIOS STATIC (BIOS)			BIOS DYNAMIC (BIOSD)			HOW TO SPECIFY
<b>CCT</b>	3000K	3500K	4000K	3000K	3500K	4000K	1. Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b> 2. Select the appropriate Lumen <b>OUTPUT</b> 3. Select the appropriate <b>CCT</b>
<b>CRI / R9</b>	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	83 / 80+	
<b>LUMINOUS FLUX MULTIPLIER</b>	0.95	0.98	1.00	0.95	0.98	1.00	See BIOS LED Lamping and Performance Details at the back of this spec sheet for lumen outputs, COI index values, and other additional information.
<b>MELANOPIC RATIO (R)*</b>	0.70	0.80	0.90	0.74	0.83	0.95	

### GLARE CONTROL FEATURE L04

Glare is defined as excessive brightness of a light-source, excessive brightness-contrasts and excessive quantities of light. Glare has been associated with a host of health issues that range from visual discomfort and eye fatigue to headaches and migraines.

To conform to Glare Control requirements, each luminaire must meet one of the following options (a, b, or d) for regularly occupied spaces.

GLARE CONTROL CRITERIA (3PT MAX)	COMPLIANT	VALUE	HOW TO SPECIFY
a. Indirect (100% emission above horizontal)	✓	-	-
b. Unified Glare Rating (UGR)*	✓	12.2 @ 16ft (HI Output) 10.94 @ 20ft (HI Output)	1. Select <b>ANY</b> output for <b>LED LAMPING</b> 2. Select <b>ANY</b> option for <b>BASE MODEL</b>
c. Shielding Angle	No	-	-
d. Max. Luminance (45°-90°) Max. Intensity (45°-90°)	✓	5924 cd/m <sup>2</sup> @ LOW Output 453.37 cd @ MED Output	1. Select an output of <b>LOW</b> for <b>LED LAMPING</b> 2. Select <b>ANY</b> option for <b>BASE MODEL</b>

\*Advertised UGR values are averages and were calculated in Agi32 using the following method: 1) A 5.4m x 3.6m room was created and fixtures were spaced 2m apart center-to-center. Calculations were performed at 16ft. and 20ft.

Rev 120622

**LP3.5R - SPECIFICATIONS  
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**ALWUSA.COM  
7 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

LP3.5RT-DRY-S210-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:****R200F-210'**

MID23-74318

**SPECIFYING FOR THE WELL BUILDING STANDARD™ - WELL™ (CONTINUED)****ELECTRIC LIGHT QUALITY - PART 1: COLOR RENDERING QUALITY + PART 2: FLICKER FEATURE L07**

Using light sources that have characteristics similar to daylight, including high color rendering and minimal flicker can improve comfort and well-being of users in a space and contribute to creating a healthy environment.

Part 1: Each luminaire must meet one of the following requirements (a or b) for regularly occupied spaces.

Part 2: Each luminaire must meet the IEEE 1789-2015 Standard Recommended Practice to manage flicker.

<b>PART 1 - ENSURE COLOR RENDERING QUALITY (1PT MAX)</b>	<b>COMPLIANT</b>	<b>VALUE</b>	<b>HOW TO SPECIFY</b>
a. CRI > 90	✓	CRI = 93 - 95	• Select <b>90</b> (90CRI) for <b>LED LAMPING</b>
b. CRI > 80 with R9 > 50	✓	CRI = 83, R9 > 90	• Select <b>BIOS</b> or <b>BIOSD</b> for <b>LED LAMPING</b>
c. IES Rf ≥ 78, IES Rg ≥ 100, -1% ≤ IES Rcs, h1 ≤ 15%	No	-	-
<b>PART 2 - MANAGE FLICKER (1PT MAX)</b>	<b>COMPLIANT</b>	<b>VALUE</b>	<b>HOW TO SPECIFY</b>
Meets IEEE 1789-2015 Standard Recommended Practice	✓	Modulation = 1% Flicker Frequency = 120 - 2000Hz	• Select <b>0/10V/S, 0/10V/1%, ECOSYS1, DALI</b> or <b>DMX</b> for <b>LED DRIVER</b>



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10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:****R200F-210'**

MID23-74318

**PERFORMANCE DETAILS**

OUTPUT	DELIVERED LUMENS/FT	EFFICACY (LM/W)	WATTS/FT <sup>14</sup>	CRI OPTIONS	CCT OPTIONS
LOW <sup>15</sup>	635	Up to ~103	6.2	80 90	2700K (90CRI Only) 3000K 3500K 4000K 5000K
MIN <sup>15</sup>	870		8.4		
HI <sup>15</sup>	1100		10.7		
TUNE	WW: 416, CW: 450	Up to ~107	8.4	90+	
RGB <sup>16</sup>	125	N/A	5	N/A	
RGBW <sup>17</sup>	RGB: 122 RGB+W: 325 White Only: 203		5x	80 (White Chip)	

<sup>14</sup>Lumens/Watt and Watts/ft have been calculated assuming a driver efficiency of 85%. Depending on field conditions, actual measured values may fluctuate by 5-8%.

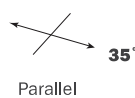
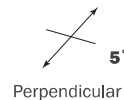
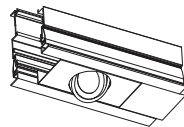
<sup>15</sup>Performance calculations are based on LM-79 test of HI output at 80 CRI and 4000K. LOW and MED calculations are extrapolated values.

<sup>16</sup>Performance calculations are derived from LM-79 test with all RGB LEDs illuminated (Red, Green, Blue).

<sup>17</sup>Performance calculations are derived from the following LM-79 tests: 1) RGB LEDs illuminated, 2) RGB+W LEDs illuminated, 3) White LED only illuminated.

**PERFORMANCE DETAILS - ACCENT/DOWNLIGHT LAMPING**

SPOT	DELIVERED LUMENS (LM)	WATTS (W)	EFFICACY (LM/W)	CRI	CCT OPTIONS	BEAM SPREAD OPTIONS (DEGREES)
DL800	800	5.1	157	80 90	2700K 3000K 3500K 4000K	25 40
DL1000	1000	6.7	150			
DL1500	1500	10.5	143			

**AIMING**

Rev 120622

**LP3.5R - SPECIFICATIONS**  
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**ALWUSA.COM**  
9 of 17



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

LP3.5RT-DRY-S210-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:**

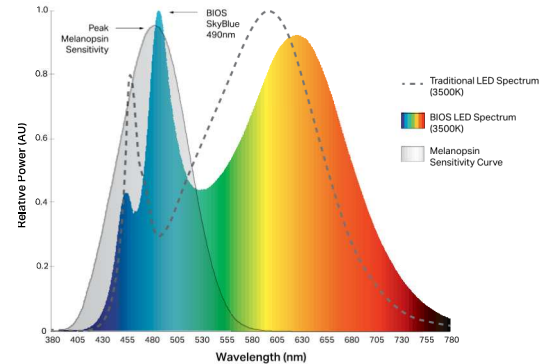
**R200F-210'**

MID23-74318

**BIOS OVERVIEW**

BIOS SkyBlue® technology is designed to provide the specific circadian stimulus required to improve overall sleep by **featuring a distinct peak in the 'skyblue' spectral power at 490nm**. Unlike traditional white LEDs, BIOS SkyBlue® makes it possible to achieve **high EML (Equivalent Melanopic Lux) and Melanopic/Photopic ratios** without harsh CCTs or high, glare-inducing light levels.

BIOS light engines are available in **Static** or **Dynamic** options for use with a variety of applications. In Static light engines, the SkyBlue 490nm signal always remains on while the fixture is powered. Dynamic options include a dynamic board and Bio-Dimmer module to allow the user to dim-out the SkyBlue 490nm signal during night time hours.



	<b>BIOS STATIC (BIOS)</b>	<b>BIOS DYNAMIC + BIO-DIMMING™ (BIOSD)</b>
<b>DESCRIPTION</b>	490nm SkyBlue light signal always remains on while the fixture is powered.	Dynamic light engine with Bio-Dimming add the ability to fine-tune and dim-out the 490nm SkyBlue signal during night time hours or as desired.
<b>TYPICAL APPLICATIONS</b>	Environments typically occupied only during daylight hours (6am - 8pm) such as offices and schools.	Environments occupied for a 24-hour period such as hospitals, security facilities, behavioral health facilities, factories, etc.
<b>CONTROLS &amp; DIMMING*</b>	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS melanopic ratio remains constant as you dim down the light intensity.	Works with any standard dimming controls (0-10V, Dali, EcoSystem, ELV, Triac, DMX, Wireless, etc.). BIOS SkyBlue® LED can be dimmed-out using a standard control/dimmer.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.

**BIOS LED LAMPING DETAILS (STATIC OR DYNAMIC)**

<b>OUTPUT</b>	<b>DELIVERED LUMENS (LM/FT)</b>	<b>WATTS (W/FT)</b>	<b>EFFICACY (LM/W)</b>	<b>CRI OPTIONS</b>
<b>LOW<sup>18</sup></b>	635	6.2	Up to ~103	82+
<b>MED<sup>18</sup></b>	870	8.4		
<b>HI<sup>18</sup></b>	1100	10.7		

**BIOS LED PERFORMANCE DETAILS**

<b>CCT</b>	<b>CRI (Ra)</b> <i>Static BIOS</i> <i>Dynamic BIOS</i>	<b>CRI (R9)</b> <i>Static BIOS</i> <i>Dynamic BIOS</i>	<b>DAYTIME M/P RATIO<sup>19</sup></b> <i>Static BIOS</i> <i>Dynamic BIOS</i>	<b>NIGHTTIME M/P RATIO<sup>20</sup></b> <i>Static BIOS</i> <i>Dynamic BIOS</i>	<b>COI<sup>21</sup></b> <i>Static BIOS</i> <i>Dynamic BIOS</i>
<b>3000K</b>	82	94	0.70	0.70	3.0
	83	90	0.73	0.45	3.3
<b>3500K</b>	83	91	0.80	0.80	3.1
	83	90	0.84	0.50	3.1
<b>4000K</b>	83	91	0.90	0.90	3.1
	83	90	0.95	0.55	3.1

<sup>18</sup>Performance calculations are based on LM-79 test of BIOS 4000K, HI output. LOW and MED calculations are extrapolated values.

<sup>19</sup>Melanopic to photopic (M/P) ratios are used to help calculate equivalent melanopic lux (EML) values which is the metric used for circadian lighting in the WELL™ Building Standard.

<sup>20</sup>Static LED nighttime M/P ratios remain the same as daytime M/P ratios as BIOS SkyBlue® always remains at full output.

<sup>21</sup>BIOS SkyBlue® meets the Cyanosis Observation Index (COI) requirements for visual assessment of cyanosis, providing a COI up to 3.3.

Rev 120622

**LP3.5R - SPECIFICATIONS**  
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**ALWUSA.COM**  
**10 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-DRY-S210-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:**  
**R200F-210'**

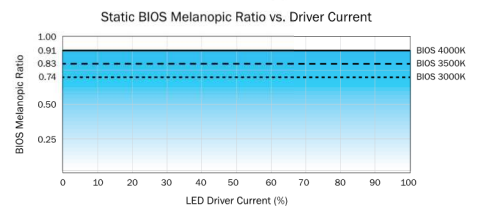
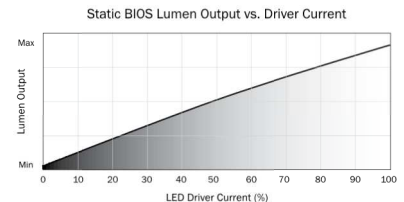
MID23-74318



**BIOS STATIC DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	LIGHT OUTPUT* (BIOS SKYBLUE® + WHITE LED)		BIOS + White LED Intensity Dimming
100%* (Full On)	100%		
99% - 51%	Linear Dimming 99% - 51%		
50%	Linear Dimming 50%		
49% - 0%	Linear Dimming 49% - 0%		

BIOS SkyBlue® LED and White LED dim with a 1-to-1 ratio.



\*While melanopic ratio remains constant, dimming/reducing light output will have an overall impact on Equivalent Melanopic Lux (EML). That is because  $EML = \text{Vertical Lux} \times \text{melanopic ratio}$ . Therefore, if you reduce light levels by dimming the LEDs, you will reduce your effective EML, even when the melanopic ratio stays constant.

**BIOS DYNAMIC + BIO-DIMMING™ DIMMING CONTROL CHARACTERISTICS**

DIMMER SETTING	BIOS SKYBLUE® LED	WHITE LED	LIGHT OUTPUT	
100%* (Full On)	100%	100%	100%	Bio-Dimming
99% - 51%	100% - 0%	100%	100% - 90%	
50%	NO BIOS	100%	~90%	White LED Intensity Dimming
49% - 0%	NO BIOS	100% - 0%	Linear Dimming 90% - 0%	

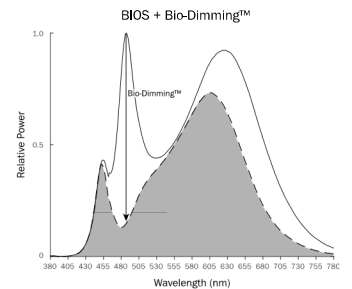
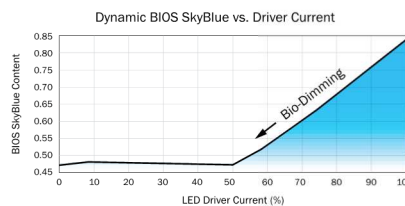
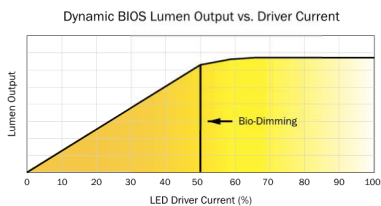
BIOS SkyBlue® maintained for maximum circadian impact.

Light output remains relatively constant.

BIOS SkyBlue® removed to provide minimal circadian impact.

White LED output dims linearly.

\*No unique wiring instructions required. However, Dynamic + Bio-Dimming™ option must be set up properly during initial startup to the desired light level setpoint. See installation guide for details.



Rev 120622

**LP3.5R - SPECIFICATIONS RECESSED**

**ALWUSA.COM**  
11 of 17



**Job Name:**  
DUTCHESS STADIUM  
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(ROCHESTER)

**Catalog Number:**

LP3.5RT-DRY-S210-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:****R200F-210'**

MID23-74318

**DRIVERS**

PRODUCT CODE	DESCRIPTION
<b>N</b>	None. Choose when indirect lighting is not desired.
<b>V00</b>	0-10V dimming down to 0% (dim to off).
<b>V01</b>	0-10V dimming down to 1%.
<b>V05</b>	0-10V dimming down to 5% (Down to 10% for TUNE lamping).
<b>P01</b>	ELV/TRIAC Phase dimming down to 1%
<b>LDE1</b>	(LDE1) Lutron Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.
<b>LTEA</b>	(LTEA) Lutron Hi-Lume 1% 2-wire TRIAC dimming (120V forward-phase only).
<b>TSERIES</b>	Lutron T-Series Tunable White Class 2 LED Driver (For use with Lutron Quantum Control Systems)
<b>ELDV0</b>	eldoLED 0/10V dimming down to 0% (when choosing nLight Air integral sensors a compatible eldoLED LEDcode version will be specified)
<b>ELDDW</b>	eldoLED 0/10V dim-to-warm dimming down to 0% (specify with TUNE LED lamping. Driver will be programmed with LightShape dim-to-warm setting)
<b>DALI</b>	DALI flicker-free dimming down to 0%.
<b>DMX</b>	DMX flicker-free dimming down to 0%.
<b>POEM</b>	Molex CoreSync PoE LED Driver. Contact ALW to assist with your project.
<b>POEI</b>	IGOR PoE LED Driver. Contact ALW to assist with your project.
<b>POEN</b>	NuLEDS PoE LED Driver. Contact ALW to assist with your project.
<b>POE</b>	Specify a PoE driver of your choice. Fixture comes with low voltage leads and no LED driver. Contact ALW to assist with your project

\*Most drivers can be programmed to specific dimming levels if desired. Contact ALW for specific dimming level requests. ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

DRIVER/LED LAMPING COMPATIBILITY							
	STD	STD/BIOS	TUNE	RGB	RGB(W)	CA TITLE 24 JAB/JA10 <sup>22</sup>	IEEE P1789 & HD TV STUDIO <sup>23</sup>
<b>V00</b>	●	●	●			●	
<b>V01</b>	●	●	●			●	
<b>V05</b>	●	●	●			●	
<b>P01</b>	●	●				●	
<b>LDE1</b>	●	●				●	●
<b>LTEA</b>	●	●				●	
<b>TSERIES</b>			●			●	●
<b>ELDV0</b>	●	●	PER REQUEST			●	●
<b>ELDDW</b>			●				
<b>DALI</b>	●	●	●			●	
<b>DMX</b>	●		●		●	PER REQUEST	PER REQUEST
<b>POEM</b>			PER REQUEST			●	●
<b>POEI</b>			PER REQUEST			●	●
<b>POEN</b>			PER REQUEST			●	●

● - Indicates compatibility

\* Standard lamping (STD) - LOW/MED/HI

<sup>22</sup> Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to California Title 24 JAB and JA10 Appendices

<sup>23</sup> The following drivers conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.

Rev 120622

**LP3.5R - SPECIFICATIONS**  
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**ALWUSA.COM**  
**12 of 17**





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

LP3.5RT-DRY-S210-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:**

**R200F-210'**

MID23-74318

**SENSORS**

	PRODUCT CODE	DESCRIPTION	Location
	<b>N</b>	None. Choose when sensors are not desired.	-
<b>COOPER WAVELINX</b>	<b>WLNx/INT</b>	Wavelinx Wireless integral occ/daylight sensor (WaveLinX part: OEM-WAA)	Integral
	<b>WLNx</b>	Fixture is built with 0/10V wiring to connect to Wavelinx Wireless sensors and power/relay packs (sensors and equipment not provided by ALW)	Remote
<b>ENLIGHTED™</b>	<b>ENLGHt/INT</b>	Enlighted integral connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5E-CL)	Integral
	<b>ENLGHt</b>	Enlighted® remote connected lighting smart sensor - occ/daylight/networking (Enlighted Part: SU-5S-H-CL)	Remote
<b>LUTRON VIVE</b>	<b>VRF</b>	Lutron® Vive integral RF wireless fixture control (Lutron Part: DFCSJ-OEM-RF)	Integral
	<b>VDO</b>	Lutron® Vive integral RF wireless fixture control + daylight/occ sensor (Lutron Part: DFCSJ-OEM-OCC)	Integral
	<b>FCJS</b>	Lutron® Vive remote RF wireless fixture control (Lutron Part: FCJS-ECO or FCJS-010)	Remote
	<b>FCJS/S</b>	Lutron® Vive remote RF wireless fixture control + daylight/occ sensor (Lutron Part: FCJS-ECO or FCJS-010, & FC-Sensor)	Remote
<b>MOLEX POE CORESYNC</b>	<b>MLX/INT</b>	Molex CoreSync PoE Integral Fixture-Mounted Sensor R - occ/daylight/temperature/humidity (Molex Part: 182091-1000)	Integral
	<b>MLX</b>	Molex PoE sensors for use with Molex/PoE drivers. Customer will need to determine who to purchase PoE equipment from	Remote
<b>NLIGHT WIRED®</b>	<b>NLT/INT</b>	Fixture is built with nLight Wired integral components specified by agency. Contact ALW to review project details.	Integral
	<b>NLT</b>	Fixture is built to connect to nLight Wired remote components specified by agency. Contact ALW to review project details.	Remote
<b>NLIGHT WIRELESS®</b>	<b>NLTAIR/INT</b>	Fixture is built with nLight Air (Wireless) components specified by agency. Contact ALW to review project details.	Integral
	<b>NLTAIR</b>	Fixture is built to connect to nLight Air (Wireless) remote components specified by agency. Contact ALW to review project details.	Remote
<b>VALUE SENSORS</b>	<b>OS/PH/INT</b>	Acuity 0-10VDC Integral occ/daylight sensor (Acuity Part: MSD 7 ADC WH) Automated Dimming Functionality Only. Manual Dimming not available. Customer to set sensor functionality in the field. Lowest dim level depends on driver.	Integral
	<b>OS/INT/HV</b>	Legrand Wattstopper <b>High Voltage</b> Integral occ/daylight on/off sensor (Part: FS-355) On/Off or Manual Dimming Functionality Only (based on occupancy and daylight). Connect fixture 0/10V wires to wall dimmer in the field. No Automated Dimming available.	Integral
	<b>OS/PH/HV</b>	Hubbell WASP <b>High Voltage</b> 0-10V remote surface mount occ/daylight sensor. 120/277/347VAC input (Hubbell Part: WSPDSMUNV) Automated Dimming Functionality: Connect fixture 0/10V wires to sensor in the field. Adjust occ/photocell settings as desired. On/Off or Manual Dimming Functionality: Turn photocell functionality OFF. Cap off 0/10V wires on sensor. Connect fixture 0/10V wires to wall dimmer in the field.	Remote

\*All connected lighting sensors/systems must be programmed in the field by an electrical commissioner familiar with the system. Refer to the 'Sensor Compatibility' and 'Driver/Sensor Compatibility' charts to specify compatible sensors, LED lamping, and LED driver systems.

Rev 120622

**LP3.5R – SPECIFICATIONS  
RECESSED**

**ALWUSA.COM  
13 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

LP3.5RT-DRY-S210-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:****R200F-210'**

MID23-74318

**SENSORS CONT'D**

SENSOR COMPATIBILITY								
PRODUCT CODE		SENSOR TYPE	MAX MT HT	CA TITLE 24	STD*	TUNE	RGB	RGB(W)
COOPER WAVELINX	WLNx/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	WLNx		15 ft	●	●			
ENLIGHTED™	ENLGHt/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●	CUSTOM REQUEST		
	ENLGHt	OCCUPANCY/PHOTOCELL	40 ft	●	●	CUSTOM REQUEST		
LUTRON VIVE	VRF	WIRELESS CONTROL	12 ft	●	●			
	VDO	OCCUPANCY/PHOTOCELL	12 ft	●	●			
	FCJS	WIRELESS CONTROL	12 ft	●	●			
	FCJS/S/	OCCUPANCY/PHOTOCELL	12 ft	●	●			
MOLEX POE CORESYNC	MLX/INT	OCCUPANCY/PHOTOCELL TEMPERATURE/HUMIDITY	16 ft	●	●			
	MLX		16 ft	●	●	●	CUSTOM REQUEST	CUSTOM REQUEST
NLIGHT WIRED®	NLT/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	NLT		15 ft	●	●			
NLIGHT WIRELESS®	NLTAIR/INT	OCCUPANCY/PHOTOCELL	15 ft	●	●			
	NLTAIR		15 ft (average)	●	●			
VALUE SENSORS	OS/PH/INT	OCCUPANCY/PHOTOCELL	15 ft		●			
	OS/INT/HV	OCCUPANCY/PHOTOCELL	15 ft	●	●	■	■	■
	OS/PH/HV	OCCUPANCY/PHOTOCELL	45 ft	●	●	■	■	■

● - Indicates compatibility    ■ - On/off sensor functionality only

\*Standard Lamping (STD) - LOW/MED/HI



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
LP3.5RT-DRY-S210-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:**  
**R200F-210'**

MID23-74318



**SENSORS (CONT'D)**

DRIVER/SENSOR COMPATIBILITY									
	WLNx/INT	WLNx	ENLGHt/ INT	ENLGHt	VRF	VDO	FCJS	FCJS/S /	MLX/INT
V00	●	●	●	●			●	●	
V01	●	●	●	●			●	●	
V05	●	●	●	●			●	●	
P01									
LDE1					●	●	●	●	
LTEA									
TSERIES									
ELDV0									
ELDDW									
DALI					●	●			
DMX									
POE/ MOLEX									●
POE/IGOR	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ NULEDS	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ READY	Sensor types will depend on the PoE system configuration. Contact ALW for details.								

- - Indicates compatibility
- ▲ - Fixture can have automated dimming via sensor OR on/off functionality and manual dimming
- - On/off sensor functionality only

DRIVER/SENSOR COMPATIBILITY CONT'D									
	MLX	NLT/INT	NLT	NLTAIR/INT	NLTAIR	OS/PH/INT	OS/INT/HV	OS/PH/HV	NO SENSOR
V00						●	■	▲	●
V01						●	■	▲	●
V05						●	■	▲	●
P01							■	■	●
LDE1									●
LTEA							■	■	●
TSERIES							■	■	●
ELDV0		●	●	●	●	●	■	▲	●
ELDDW							■	■	●
DALI							■	■	●
DMX							■	■	●
POE/ MOLEX	●								●
POE/IGOR	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ NULEDS	Sensor types will depend on the PoE system configuration. Contact ALW for details.								
POE/ READY	Sensor types will depend on the PoE system configuration. Contact ALW for details.								

Rev 120622

**LP3.5R - SPECIFICATIONS  
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**ALWUSA.COM  
15 of 17**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**

LP3.5RT-DRY-S210-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:**

**R200F-210'**

MID23-74318

**PHOTOMETRICS**

OPTIC	POLAR PLOT (CD)	MTG HEIGHT	LIGHT LEVEL (FC)	SPACING CRITERION (SC) <sup>24</sup> (0°- 180°) (90°- 270°)	MAX INTENSITY (CD)	OUTPUT (LM/FT)
<b>EXT</b>		6 ft	22.8	1.24 1.24	784.4	1100
		8 ft	12.3			
		10 ft	7.8			
		12 ft	5.4			
		14 ft	4			
		16 ft	3.1			

\*Photometric calculations based on HI 4000K 80 CRI fixture combination. Actual results may vary in the field.

For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#).

<sup>24</sup> criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface.

Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).



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DUTCHESS STADIUM  
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**Catalog Number:**

LP3.5RT-DRY-S210-700LF/80/3500-0/  
10V/1%-EXT-N-N-N-N-TW-UNV-S-MOD

Notes: Approximately 212LF. See RCP for exact lengths.  
1x non-90° inner corner + 1x 3-way 90° intersection + 1x same

**Type:****R200F-210'**

MID23-74318

**ADDITIONAL OPTIONS & SPECIFICATIONS****LED PERFORMANCE**

> 54,000 hours at 70% lumen maintenance, LM80 / TM-21

**HOUSING**

100% recyclable, extruded architectural grade 6061 aluminum with a 0.08" minimum wall thickness.

**LENS OPTIONS**

Extruded, twin-layered, high-impact acrylic. EXT is white and extra diffuse with minimal- to no-source visibility.



FLUSH LENS – EXT/F

**SAFETY & REGULATORY**

Fixtures specified with 90CRI, 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to **California Title 24 JA8 and JA10** Appendices. EidoLED drivers can conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'.

Contact [ALW customer support](#) today and we can help you with your project requirements..

ETL Listed (U.S. & Canada). Suitable for dry or damp locations. Conforms to UL std. 1598, Luminaires. Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2.

**WARRANTY**

Limited 11-year warranty. Details: [alwusa.com/warranty](http://alwusa.com/warranty)

**OPERATING TEMPERATURE**

Luminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from -4 °F to 122 °F (-20 °C to 50 °C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

**INTEGRAL DOWNLIGHTS**

Optional, aimable accent downlights deliver 800-1500 lumens with a beam spread of 25° or 40°. Hex cell (HEX) and snoot (SNT) accessories are also available.

**CONTROLS, SENSORS, & LED DRIVER**

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, nLight, Cooper Wavelinx, eldoLED, Molex PoE, NuLEDS PoE, Igor PoE, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact [ALW customer support](#) today so we can review your requirements.

**WEIGHT**

Approximately 3 lbs. per linear foot (not including downlight option). Weight may vary depending on mounting, downlight, and additional options selected.

**WOOD VENEER**

Most ALW fixture configurations are available with [real wood veneer](#) as a custom request. Contact [ALW customer support](#) so we can help you with your custom wood veneer request.

**CHICAGO PLENUM CERTIFICATION**

Recessed fixtures for this product family are available to meet Chicago Plenum certification in continuous lengths. For Chicago Plenum options please contact ALW.

Rev 120622

**LP3.5R – SPECIFICATIONS**  
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**17 of 17**

Submitted by Lightspec, LLC.-Mid Hudson



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
120 DEGREE CORNER

Notes: ASSUMING P200F ON DRAWINGS  
ARE MISLABELED/QUOTING R200F

**Type:**  
R200F-120 DEGREE

MID23-74318

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Submitted by Lightspec, LLC.-Mid Hudson



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
90 DEGREE CORNER

Notes: ASSUMING P200F ON DRAWINGS  
ARE MISLABELED/QUOTING R200F

**Type:**  
R200F-90 DEGREE

MID23-74318

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Submitted by Lightspec, LLC.-Mid Hudson



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
T CORNERS

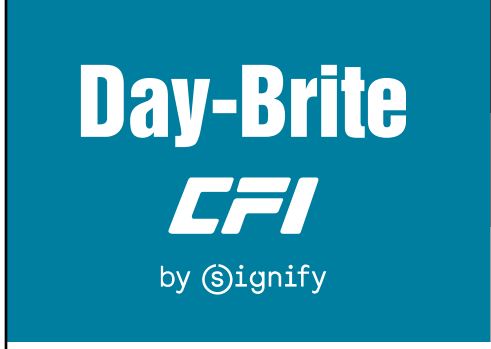
Notes: ASSUMING P200F ON DRAWINGS  
ARE MISLABELED/QUOTING R200F

**Type:**

**R200F T**

MID23-74318

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**Linear**  
**FluxStream strip**  
 FSS 2', 3', 4', & 8'



Day-Brite / CFI FluxStream LED strip is a high performing luminaire delivering smooth diffuse light ideal for light industrial, commercial and residential applications with unparalleled energy efficiency.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lumens: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

**Ordering guide - standard & wireless controls**

example: FSS440L840-UNV-DIM

Series	Length (nominal)	Lumens <sup>2</sup> (nominal)	Color temp. (K)	Voltage	Driver	Options
FSS						
FSS FluxStream strip	2' 2'	20L 2000 30L 3000	830 80 CRI, 3000K 835 80 CRI, 3500K	UNV Universal voltage 120-277V	DIM <sup>11</sup> Dimming SDIM <sup>6,7</sup> Step dimming to 40% input power XDIM <sup>4,6,7</sup> MarkX phase dimming DALI <sup>8</sup> DALI	EMLED <sup>5,9</sup> Factory wired Bodine BSL310LP integral emergency pack. Nominal 1100lm ER100 <sup>12,13,17</sup> UL924 listed bypass sensor relay, factory installed between driver & sensor PS/PI (Interact Pro compatible) ER100/HVPS <sup>12,13,17</sup> UL924 listed sensor bypass relay, factory installed between driver & sensor for 347/480 Power Sense (Interact Pro compatible) ER100/HVPI <sup>12,13,17</sup> UL924 listed sensor bypass relay, factory installed between driver & sensor for 347/480 Power Interrupt (Interact Pro compatible) GTD/E <sup>18</sup> UL924 listed Bodine GTD factory installed on driver input GTD/SNSR <sup>12,13</sup> UL924 listed Bodine GTD factory installed between driver & sensor (alternate option to ER100) SWZCS <sup>10,15</sup> Interact Pro scalable sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SWZDT <sup>10</sup> SpaceWise sensor, daylighting and occupancy, advanced grouping, with dwell time RADIO <sup>10</sup> Integral Interact Pro RF sensor, enables wireless connected lighting control SWZCSH <sup>14</sup> Interact Pro scalable high bay sensor with integral daylight & occupancy sensing, advanced grouping with dwell time for high mounting heights IAOSB <sup>10,15</sup> Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities LSXR10 120-347V motion sensor, factory installed on end cap LSXR10ADC <sup>10</sup> 120-347V motion sensor with photocell and hi/lo trim dimming, factory installed on end cap PAF Paint after fabrication for extra corrosion resistance (white) BK Matte black paint color ST Satin aluminum paint color BAC <sup>18</sup> Meets the requirements of the Buy American Act of 1933 (BAA)
	3' 3'	30L 3000	840 80 CRI, 4000K 850 <sup>3</sup> 80 CRI, 5000K	120 <sup>4</sup> 120V 277 <sup>4</sup> 277V 347 <sup>5</sup> 347V		
	4' 4'	30L 3000 40L 4000 55L 5500 70L 7000				
	8' 8'	60L 6000 80L 8000 110L 11000 140L 14000				

**Ordering guide - PoE controls example: FSS440L840-LV-POE-IAO**

Series	Length (nominal)	Lumens <sup>2</sup> (nominal)	Color temp. (K)	Voltage	Driver	Options
FSS				LV	POE	
FSS FluxStream Strip	4' 4'	30L 3000 40L 4000 60L 6000	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	LV Low voltage	POE Power over ethernet	IAO Interact PoE daylighting and occupancy sensor, enables wired connected lighting control EMPOE <sup>16</sup> 600lm integral emergency driver and battery pack PAF Paint after fabrication for extra corrosion resistance (white) BK Matte black paint color ST Satin aluminum paint color IAOSB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
	8' 8'	60L 6000				

- 8' is tandem (2) 4' lenses with single piece 8' body.
- Nominal delivered lumens at 25°C ambient.
- Not available in 3' model.
- XDIM option only available with 120V.
- 347V with EMLED only available in 8' models.
- Not available in 2' or 3' model.
- Not available in 4' 70L model or 8' 140L model.
- DALI available up to 80L models only, consult factory for other options.
- EMLED on 8' models illuminates 4' section in emergency mode.
- Available with DIM driver option only.
- Integral controls options dimmable to 5% via wireless wall switch. Non-integral controls configurations are 0-10V dimmable to 1%.
- Must be installed in conjunction with a UL1008 device.
- Must be ordered with an integral sensing option.
- High bay motion detector. Motion sensing zone is extremely limited if used below 15' mounting height.
- Must order IRT9015 Interact commissioning remote with each system order.
- EMLED on 8' models illuminates 4' section in emergency mode.
- ER100 options not available in 2' 3' only has availability when selecting UNV.
- Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- Consult Signify to confirm whether specific accessories are BAA-compliant.

- Accessories<sup>19</sup> (order separately)**
- FSSD2L - 2' Diffuse replacement lens
  - FSSD3L - 3' Diffuse replacement lens
  - FSSD4L - 4' Diffuse replacement lens (order two for 8' models)
  - FSSW4 - 4' wire guard (order two for 8' models)
  - FSTH - Sliding hanger bracket (set of two)
  - LSXR10 - Low bay PIR motion sensor, 120-277V (not available with PoE)
  - LSXR10ADC - Low bay PIR motion sensor with photocell and hi/lo trim dimming, 120-277V (not available with PoE)
  - FSSDEK - Decorative plastic end cap (set of two)
- (See last page for details and more options)

**SWZCS accessories<sup>19</sup> (order separately)**

- IRT9015 - handheld remote for grouping and configuration (at least one remote required for any SWZCS installation).

**General notes**

Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

PAF (Paint after fabrication) option is required for all products that will be used in a damp or humid location, such as under a canopy or covered parking area.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS230L835-UNV-DIM-FKR-126

**Type:**  
**S10**

Notes:

MID23-74318

# FSS FluxStream LED strip

## 2', 3', 4' and 8'

### Features

- Compact design for installation in tight spaces.
- Frosted acrylic diffuser provides wide light distribution and superior glare control.
- Diffuser and LED plate snap into place allowing tool-free access to LED boards and driver.
- 2', 3', 4' and 8' tandem lengths available to accommodate many field applications.
- Up to 100,000 hour predicted L70 LED lumen maintenance provides long service life to reduce maintenance costs.
- Can be surface mounted on ceilings or walls, or suspended via chain, pendants or cables.
- Wall mountable – ADA compliant.
- Ideal for cold applications (~20°C).
- Continuous row mounting using standard end caps. No extra parts needed.
- 7/8" knock out provided at each end and on base of luminaire. Note: Center knockout is covered and not useable in 4' version with EMLED option.
- Multiple driver options available with 0-10V as standard.
- Enclosed lens minimizes penetration of dust, insects, and other debris into the LED compartment.

- 8' tandem unit is two 4' optical assemblies with a center mullion on a single full length chassis.
- Integral controls options include sensor mounted in control module extension mounted on fixture end (see dimension drawing).
- Fluxstream luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers [www.designlights.org/QPL](http://www.designlights.org/QPL).
- 5 year manufacturer's limited warranty. Visit [signify.com/warranties](http://signify.com/warranties) for complete warranty information.

### Finish

- Baked white acrylic matte high reflectance paint finish.
- PAF (Paint after fabrication) option, which is required for all products that will be used in damp or humid locations, such as a canopy or covered parking area, provides extra corrosion resistance.

### Shielding

- Contoured frosted acrylic lens.

### Electrical

- LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant. Total system life rated at 50,000 hours. Predicted L70 lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- Integral emergency driver with EMLED option. To estimate lumen output in emergency mode, multiply emergency pack wattage by efficacy, then by 1.10.
- The GTD/E option is used to bypass wall switches and allow luminaire operation on auxiliary power. Generator transfer requires installation in conjunction with a UL1008 listed device.
- The GTD/SNSR option is used to bypass integrated sensor control in the event of utility power loss. Generator transfer requires installation in conjunction with a UL1008 listed device.

### Materials

- Heavy gauge cold rolled steel housing, LED plate, and end caps.

### Labels

- cETLus listed.
- Suitable for damp locations.

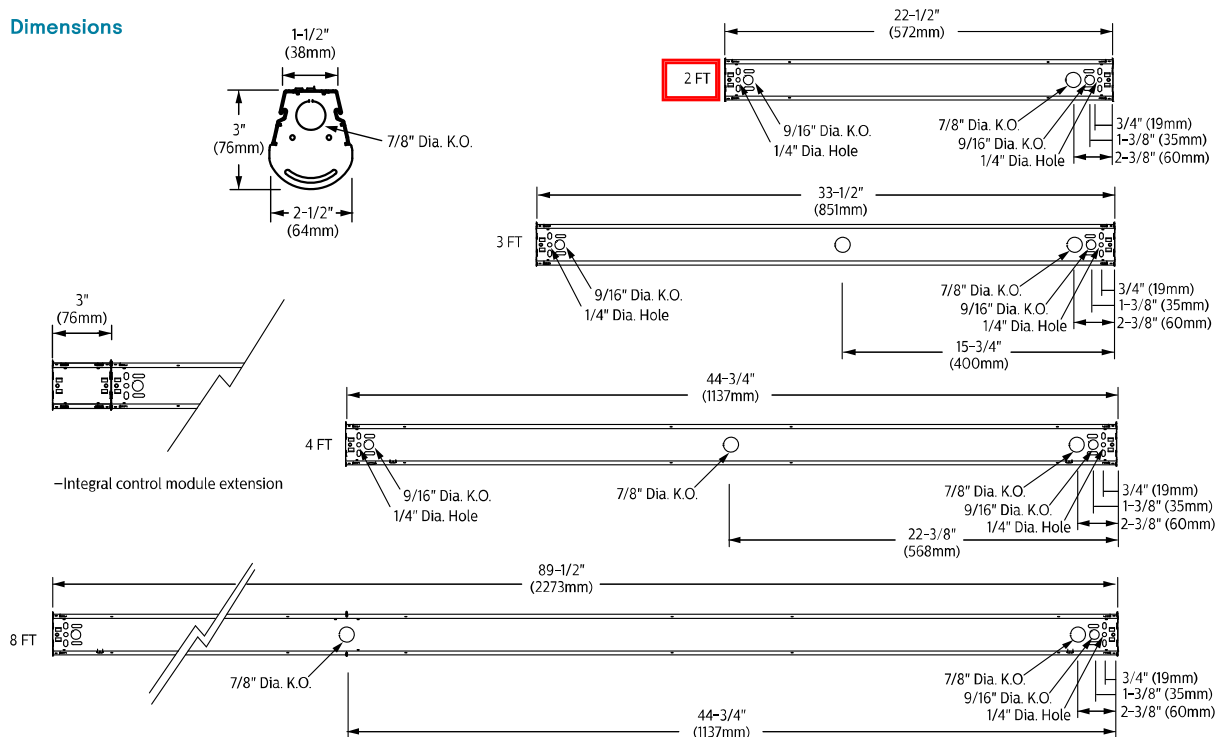
### Performance data

Fixture	Lumens	Wattage	Efficacy
FSS220L	2000lm	17W	123lm/w
FSS330L	3000lm	26W	119lm/w
FSS440L	4000lm	31W	133lm/w
FSS455L	5500lm	45W	129lm/w
FSS470L	7000lm	58W	126lm/w

### Ambient temperature data

Configuration	Ambient
FSS470L	-20°C to 30°C
FSS8110L	-20°C to 35°C
FSS8140L	-20°C to 25°C
EMLED option	Minimum 0°C
All others	-20°C to 40°C

### Dimensions





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS230L835-UNV-DIM-FKR-126

Notes:

**Type:**  
**S10**

MID23-74318

# FSS FluxStream LED strip

2', 3', 4' and 8'

## Wireless Controls Options

### SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping, wireless mesh networking and dwell time.
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/apregistration/>
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: -

**SWZDT** - [www.usa.lighting.philips.com/systems/lighting-systems/spacewise](http://www.usa.lighting.philips.com/systems/lighting-systems/spacewise)

### Emergency Options (ER100)

- Power Sensing (Factory default) - Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) - Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

### FluxStream strip shown with integral sensor



### Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (SWZCS/SWZCSH and an evolution of SpaceWise)

- SWZCS/SWZCSH is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & BlueTooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
  - Compatible with:
    - SWS200 wireless scene switch
    - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
    - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
    - LCN3110: Battery powered IP65 presence sensor, OCC sensor IA CM IP65WH
    - LCN3120: Battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: [www.interact-lighting.com/interactproscalablesystem](http://www.interact-lighting.com/interactproscalablesystem)

### Interact Pro scalable sensor bundles for Enterprise tier

- IAOSB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Compatible with SWS200 wireless scene switch and Interact Ready wireless battery powered sensors.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit: [www.interact-lighting.com/office](http://www.interact-lighting.com/office) or [www.usa.lighting.philips.com/systems/system-areas/offices](http://www.usa.lighting.philips.com/systems/system-areas/offices)

## Wired Controls Options

### Interact PoE

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- IAOSB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- PoE lighting controller is accessible from below.
- Integral sensor option for occupancy sensing (PIR) and/or daylight harvesting available for additional energy savings.
- Optional integral emergency controller and battery pack provides 600lm nominal output. Test switch and indicator light mounted on side of chassis on one end.
- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of 20C to 30C (-4F to 86F) ambient, and 45-85% relative humidity.
- For more information, visit: [www.interact-lighting.com/office](http://www.interact-lighting.com/office) or [www.usa.lighting.philips.com/systems/system-areas/offices](http://www.usa.lighting.philips.com/systems/system-areas/offices)

FluxStream\_LED\_Strip 07/22 page 3 of 7



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS230L835-UNV-DIM-FKR-126

**Type:**  
**S10**

Notes:

MID23-74318

# FSS FluxStream LED strip

2', 3', 4' and 8'

## Photometry

### 2' FluxStream LED strip, 2000 nominal delivered lumens

LER - 123

**Catalog No.** FSS220L840-UNV-DIM  
**Test No.** 37164  
**S/MH** 1.2  
**Lamp Type** LED  
**Lumens** 2034  
**Input Watts** 17

#### Candlepower

Angle	End	45	Cross	Back-45
0	644	644	644	644
5	635	641	646	641
15	610	618	626	618
25	520	567	585	567
35	451	474	495	474
45	371	403	432	403
55	284	324	362	324
65	191	243	288	243
75	96	167	218	167
85	18	105	155	105

Comparative yearly lighting energy cost per 1000 lumens – **\$1.95** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	493	24.2
0-40	790	38.9
0-60	1391	68.4
0-90	1910	93.9
90-180	124	6.1
0-180	2034	100

#### Average Luminance

Zone	End	45°	Cross
45	15155	12916	12955
55	14048	11583	11859
65	12449	10173	10781
75	9646	8758	9839
85	4206	7611	9181

#### Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20			70			50		
Ceil									
Wall	70	50	30	70	50	30	50	30	30
RCR									
0	118	118	118	114	114	114	108	108	108
1	106	100	94	102	96	93	92	88	88
2	95	86	79	92	83	77	80	73	73
3	86	76	67	83	73	66	69	63	63
4	79	67	57	77	65	56	61	55	55
5	72	59	50	69	57	50	55	47	47
6	67	54	45	65	52	44	50	41	41
7	61	48	40	59	47	39	45	38	38
8	57	44	35	56	42	34	41	34	34
9	54	40	32	53	40	32	38	30	30
10	51	38	30	49	37	29	35	29	29

### 3' FluxStream LED strip, 3000 nominal delivered lumens

LER - 119

**Catalog No.** FSS330L840-UNV-DIM  
**Test No.** 37132  
**S/MH** 1.3  
**Lamp Type** LED  
**Lumens** 3045  
**Input Watts** 26

#### Candlepower

Angle	End	45	Cross	Back-45
0	982	982	982	982
5	966	978	980	978
15	927	943	948	943
25	849	869	884	869
35	738	772	795	772
45	609	655	690	655
55	435	505	554	505
65	293	356	414	356
75	148	232	301	232
85	28	129	201	129

Comparative yearly lighting energy cost per 1000 lumens – **\$2.02** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	759	24.9
0-40	1241	40.8
0-60	2187	71.8
0-90	2918	95.8
90-180	127	4.2
0-180	3045	100

#### Average Luminance

Zone	End	45°	Cross
45	16859	14162	13823
55	14686	12197	12138
65	13174	10098	10376
75	10412	8269	9110
85	4882	6455	7980

#### Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20			70			50		
Ceil									
Wall	70	50	30	70	50	30	50	30	30
RCR									
0	118	118	118	115	115	115	109	109	109
1	107	101	96	103	98	93	93	90	90
2	96	88	81	93	85	79	81	76	76
3	88	77	68	84	75	67	70	65	65
4	80	68	58	78	66	57	63	56	56
5	73	60	51	70	58	51	56	48	48
6	68	55	45	66	53	45	51	44	44
7	63	48	40	60	47	40	46	39	39
8	58	45	36	56	44	35	42	34	34
9	55	40	33	53	40	33	39	32	32
10	51	38	30	50	38	30	36	29	29



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

Notes:

MID23-74318

# FSS FluxStream LED strip

2', 3', 4' and 8'

## Photometry

### 4' FluxStream LED strip, 4000 nominal delivered lumens

LER - 133

<b>Catalog No.</b>	FSS440L840-UNV-DIM
<b>Test No.</b>	37259
<b>S/MH</b>	1.3
<b>Lamp Type</b>	LED
<b>Lumens</b>	4130
<b>Input Watts</b>	31

#### Candlepower

Angle	End	45	Cross	Back-45
0	1272	1272	1272	1272
5	1250	1265	1277	1265
15	1199	1221	1237	1221
25	1098	1130	1157	1130
35	957	1005	1044	1005
45	791	860	910	860
55	606	690	758	690
65	382	481	598	481
75	194	326	416	326
85	36	196	289	196

Comparative yearly lighting energy cost per 1000 lumens - **\$1.80** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	986	23.9
0-40	1614	39.1
0-60	2886	69.9
0-90	3905	94.6
90-180	225	5.4
0-180	4130	100

#### Average Luminance

Zone	End	45'	Cross
45	16754	14171	13847
55	15678	12712	12618
65	13207	10415	11375
75	10615	8873	9550
85	5052	7511	8720

#### Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)										
pfc =	20									
Ceiling		80			70			50		
Wall	70	50	30	70	50	30	50	30		
RCR										
0	118	118	118	114	114	114	108	108		
1	106	101	95	103	97	93	92	89		
2	95	86	80	93	84	78	80	75		
3	86	76	67	83	73	66	69	64		
4	80	67	57	77	65	56	61	55		
5	72	59	51	70	57	50	56	47		
6	68	54	45	65	53	44	50	42		
7	63	48	40	59	47	39	46	38		
8	57	44	35	56	44	34	41	34		
9	54	40	32	53	40	32	38	30		
10	51	38	30	49	37	29	35	28		

### 4' FluxStream LED strip, 5500 nominal delivered lumens

LER - 129

<b>Catalog No.</b>	FSS455L840-UNV-DIM
<b>Test No.</b>	37262
<b>S/MH</b>	1.3
<b>Lamp Type</b>	LED
<b>Lumens</b>	5759
<b>Input Watts</b>	45

#### Candlepower

Angle	End	45	Cross	Back-45
0	1788	1788	1788	1788
5	1757	1777	1792	1777
15	1685	1715	1736	1715
25	1544	1585	1623	1585
35	1346	1408	1462	1408
45	1113	1202	1271	1202
55	852	960	1055	960
65	575	712	828	712
75	272	443	610	443
85	50	259	389	259

Comparative yearly lighting energy cost per 1000 lumens - **\$1.86** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	1384	24
0-40	2264	39.3
0-60	4043	70.2
0-90	5478	95.1
90-180	281	4.9
0-180	5759	100

#### Average Luminance

Zone	End	45'	Cross
45	23558	19796	19347
55	22047	17697	17574
65	19887	15425	15749
75	14898	12084	14023
85	7023	9926	11749

#### Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)										
pfc =	20									
Ceiling		80			70			50		
Wall	70	50	30	70	50	30	50	30		
RCR										
0	118	118	118	115	115	115	108	108		
1	106	101	95	103	97	93	93	89		
2	95	86	80	93	84	78	80	75		
3	86	76	68	83	73	66	69	64		
4	80	67	57	77	66	56	61	55		
5	72	59	51	70	58	50	56	47		
6	68	54	45	65	53	44	50	42		
7	63	48	40	60	47	39	46	38		
8	57	44	35	56	44	34	41	34		
9	54	40	32	53	40	32	38	30		
10	51	38	30	49	37	29	36	29		

### 4' FluxStream LED strip, 7000 nominal delivered lumens

LER - 126

<b>Catalog No.</b>	FSS470L840-UNV-DIM
<b>Test No.</b>	37265
<b>S/MH</b>	1.3
<b>Lamp Type</b>	LED
<b>Lumens</b>	7275
<b>Input Watts</b>	58

#### Candlepower

Angle	End	45	Cross	Back-45
0	2211	2211	2211	2211
5	2176	2199	2217	2199
15	2088	2124	2148	2124
25	1914	1966	2010	1966
35	1672	1750	1813	1750
45	1379	1502	1580	1502
55	1058	1204	1317	1204
65	714	898	1041	898
75	339	592	776	592
85	63	344	524	344

Comparative yearly lighting energy cost per 1000 lumens - **\$1.90** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	1714	23.6
0-40	2809	38.6
0-60	5028	69.1
0-90	6879	94.6
90-180	396	5.4
0-180	7275	100

#### Average Luminance

Zone	End	45'	Cross
45	29203	24745	24050
55	27371	22192	21938
65	24688	19451	19793
75	18540	16135	17825
85	8824	13174	15831

#### Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)										
pfc =	20									
Ceiling		80			70			50		
Wall	70	50	30	70	50	30	50	30		
RCR										
0	118	118	118	114	114	114	108	108		
1	106	100	95	103	97	93	92	89		
2	95	86	79	92	83	78	80	73		
3	86	76	67	83	73	66	69	63		
4	79	67	57	77	65	56	61	55		
5	72	59	50	69	57	48	55	47		
6	67	54	44	65	52	44	50	41		
7	61	47	40	59	46	39	45	38		
8	57	44	35	56	42	34	40	34		
9	54	40	32	52	40	32	38	30		
10	51	37	29	49	37	29	35	28		



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS230L835-UNV-DIM-FKR-126

**Type:**

**S10**

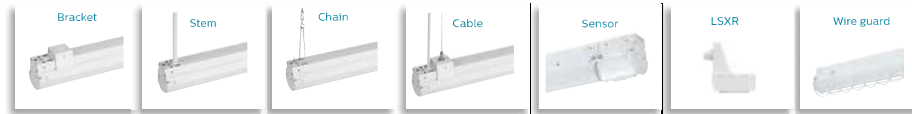
Notes:

MID23-74318

## FSS FluxStream LED strip

2', 3', 4' and 8'

### Accessories<sup>19</sup>



Accessory Catalog Code	Description	
FSTH	Sliding hanger bracket (pair)	
SV5F12	12" Stem and canopy kit	White stem and canopy kit, 1/4" trade size (1/2" O.D.) locknuts included. Works with 9/16" k.O. on base of housing.
SV5F18	18" Stem and canopy kit	
SV5F24	24" Stem and canopy kit	
SV5F36	36" Stem and canopy kit	
SV5F48	48" Stem and canopy kit	
FKR-126	Chain hanger set (pair)	Includes two 5' heavy duty link chains with "V" hooks. Attaches to base of housing.
DACHxx	Adjustable cable hanger kit (single)	Works with 1/4" hole on base of housing or FSTH hanger bracket.  xx=cable length in inches, enter 48" to 180" lengths in 12" increments
DACHxx-1-SC	Adjustable cable hanger kit with white straight 18/3 cord (single)	
DACHxx-1-CC	Adjustable cable hanger kit with white coiled 18/3 cord (single)	
DACHxx-2-SC	Adjustable cable hanger kit with white straight 18/4 cord (single)	
DACHxx-2-CC	Adjustable cable hanger kit with white coiled 18/4 cord (single)	
DACHxx-1D-SC	Adjustable cable hanger kit with white straight 18/5 cord with dimming leads (single)	
LSXR10	Low bay pir motion sensor (120-277v)	
LSXR10ADC	Low bay pir motion sensor with photocell and hi/lo trim dimming (120-277v)	
FSSWG4	4' Wire guard (order two for 8' models)	
FSSD2L	2' Diffuse replacement lens	
FSSD3L	3' Diffuse replacement lens	
FSSD4L	4' Diffuse replacement lens (order two for 8' models)	
FSSDEK	Decorative plastic end cap (set of two)	

<sup>19</sup> Consult Signify to confirm whether specific accessories are BAA-compliant.



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**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSSEZ440L835-UNV-DIM-FKR-126

**Type:**  
**S11**

Notes:

MID23-74318

**Day-Brite**  
**CFI**  
by **Signify**

**Linear**

**FluxStream strip**

FSS 2', 3', 4', & 8'



Control options available

Day-Brite / CFI FluxStream LED strip is a high performing luminaire delivering smooth diffuse light ideal for light industrial, commercial and residential applications with unparalleled energy efficiency.

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lumens: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

**Ordering guide - standard & wireless controls**

example: FSS440L840-UNV-DIM

Series	Length (nominal)	Lumens <sup>2</sup> (nominal)	Color temp. (K)	Voltage	Driver	Options
FSS						
FSS FluxStream strip	2' 2'	20L 2000 30L 3000	830 80 CRI, 3000K 835 80 CRI, 3500K	UNV Universal voltage 120-277V	DIM <sup>11</sup> Dimming SDIM <sup>6,7</sup> Step dimming to 40% input power XDIM <sup>4,5,7</sup> MarkX phase dimming DALI <sup>8</sup> DALI	EMLED <sup>5,9</sup> Factory wired Bodine BSL310LP integral emergency pack. Nominal 1100lm ER100 <sup>10,13,17</sup> UL924 listed bypass sensor relay, factory installed between driver & sensor PS/PI (Interact Pro compatible) ER100/HVPS <sup>12,13,17</sup> UL924 listed sensor bypass relay, factory installed between driver & sensor for 347/480 Power Sense (Interact Pro compatible) ER100/HVPI <sup>12,13,17</sup> UL924 listed sensor bypass relay, factory installed between driver & sensor for 347/480 Power Interrupt (Interact Pro compatible) GTD/E <sup>12</sup> UL924 listed Bodine GTD factory installed on driver input GTD/SNSR <sup>12,13</sup> UL924 listed Bodine GTD factory installed between driver & sensor (alternate option to ER100) SWZCS <sup>10,15</sup> Interact Pro scalable sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SWZDT <sup>10</sup> SpaceWise sensor, daylighting and occupancy, advanced grouping, with dwell time RADIO <sup>10</sup> Integral Interact Pro RF sensor, enables wireless connected lighting control SWZCSH <sup>14</sup> Interact Pro scalable high bay sensor with integral daylight & occupancy sensing, advanced grouping with dwell time for high mounting heights IAOSB <sup>10,15</sup> Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities LSXR10 120-347V motion sensor, factory installed on end cap LSXR10ADC <sup>10</sup> 120-347V motion sensor with photocell and hi/lo trim dimming, factory installed on end cap PAF Paint after fabrication for extra corrosion resistance (white) BK Matte black paint color ST Satin aluminum paint color BAC <sup>18</sup> Meets the requirements of the Buy American Act of 1933 (BAA)
	3' 3'	30L 3000	840 80 CRI, 4000K 850 <sup>3</sup> 80 CRI, 5000K	120 <sup>4</sup> 120V 277 <sup>4</sup> 277V 347 <sup>5</sup> 347V		
	4' 4'	30L 3000 40L 4000 55L 5500 70L 7000				
	8' 8'	60L 6000 80L 8000 110L 11000 140L 14000				

**Ordering guide - PoE controls example: FSS440L840-LV-POE-IAO**

Series	Length (nominal)	Lumens <sup>2</sup> (nominal)	Color temp. (K)	Voltage	Driver	Options
FSS				LV	POE	
FSS FluxStream Strip	4' 4'	30L 3000 40L 4000 60L 6000	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	LV Low voltage	POE Power over ethernet	IAO Interact PoE daylighting and occupancy sensor, enables wired connected lighting control EMPOE <sup>16</sup> 600lm integral emergency driver and battery pack PAF Paint after fabrication for extra corrosion resistance (white) BK Matte black paint color ST Satin aluminum paint color IAOSB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
	8' 8'	60L 6000				

- 8' is tandem (2) 4' lenses with single piece 8' body.
- Nominal delivered lumens at 25°C ambient.
- Not available in 3' model.
- XDIM option only available with 120V.
- 347V with EMLED only available in 8' models.
- Not available in 2' or 3' model.
- Not available in 4' 70L model or 8' 140L model.
- DALI available up to 80L models only, consult factory for other options.
- EMLED on 8' models illuminates 4' section in emergency mode.
- Available with DIM driver option only.
- Integral controls options dimmable to 5% via wireless wall switch. Non-integral controls configurations are 0-10V dimmable to 1%.
- Must be installed in conjunction with a UL1008 device.
- Must be ordered with an integral sensing option.
- High bay motion detector. Motion sensing zone is extremely limited if used below 15' mounting height.
- Must order IRT9015 Interact commissioning remote with each system order.
- EMLED on 8' models illuminates 4' section in emergency mode.
- ER100 options not available in 2' 3' only has availability when selecting UNV.
- Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- Consult Signify to confirm whether specific accessories are BAA-compliant.

**Accessories<sup>19</sup> (order separately)**

- FSSD2L - 2' Diffuse replacement lens
  - FSSD3L - 3' Diffuse replacement lens
  - FSSD4L - 4' Diffuse replacement lens (order two for 8' models)
  - FSSW4 - 4' wire guard (order two for 8' models)
  - FSTH - Sliding hanger bracket (set of two)
  - LSXR10 - Low bay PIR motion sensor, 120-277V (not available with PoE)
  - LSXR10ADC - Low bay PIR motion sensor with photocell and hi/lo trim dimming, 120-277V (not available with PoE)
  - FSSDEK - Decorative plastic end cap (set of two)
- (See last page for details and more options)

**SWZCS accessories<sup>19</sup> (order separately)**

- IRT9015 - handheld remote for grouping and configuration (at least one remote required for any SWZCS installation).

**General notes**

Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.  
PAF (Paint after fabrication) option is required for all products that will be used in a damp or humid location, such as under a canopy or covered parking area.



**interact ready.**



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSSEZ440L835-UNV-DIM-FKR-126

Notes:

**Type:**  
**S11**

MID23-74318

# FSS FluxStream LED strip

## 2', 3', 4' and 8'

### Features

- Compact design for installation in tight spaces.
- Frosted acrylic diffuser provides wide light distribution and superior glare control.
- Diffuser and LED plate snap into place allowing tool-free access to LED boards and driver.
- 2', 3', 4' and 8' tandem lengths available to accommodate many field applications.
- Up to 100,000 hour predicted L70 LED lumen maintenance provides long service life to reduce maintenance costs.
- Can be surface mounted on ceilings or walls, or suspended via chain, pendants or cables.
- Wall mountable – ADA compliant.
- Ideal for cold applications (~20°C).
- Continuous row mounting using standard end caps. No extra parts needed.
- 7/8" knock out provided at each end and on base of luminaire. Note: Center knockout is covered and not useable in 4' version with EMLED option.
- Multiple driver options available with 0-10V as standard.
- Enclosed lens minimizes penetration of dust, insects, and other debris into the LED compartment.

- 8' tandem unit is two 4' optical assemblies with a center mullion on a single full length chassis.
- Integral controls options include sensor mounted in control module extension mounted on fixture end (see dimension drawing).
- Fluxstream luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers [www.designlights.org/QPL](http://www.designlights.org/QPL).
- 5 year manufacturer's limited warranty. Visit [signify.com/warranties](http://signify.com/warranties) for complete warranty information.

### Finish

- Baked white acrylic matte high reflectance paint finish.
- PAF (Paint after fabrication) option, which is required for all products that will be used in damp or humid locations, such as a canopy or covered parking area, provides extra corrosion resistance.

### Shielding

- Contoured frosted acrylic lens.

### Electrical

- LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant. Total system life rated at 50,000 hours. Predicted L70 lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- Integral emergency driver with EMLED option. To estimate lumen output in emergency mode, multiply emergency pack wattage by efficacy, then by 1.10.
- The GTD/E option is used to bypass wall switches and allow luminaire operation on auxiliary power. Generator transfer requires installation in conjunction with a UL1008 listed device.
- The GTD/SNSR option is used to bypass integrated sensor control in the event of utility power loss. Generator transfer requires installation in conjunction with a UL1008 listed device.

### Materials

- Heavy gauge cold rolled steel housing, LED plate, and end caps.

### Labels

- cETLus listed.
- Suitable for damp locations.

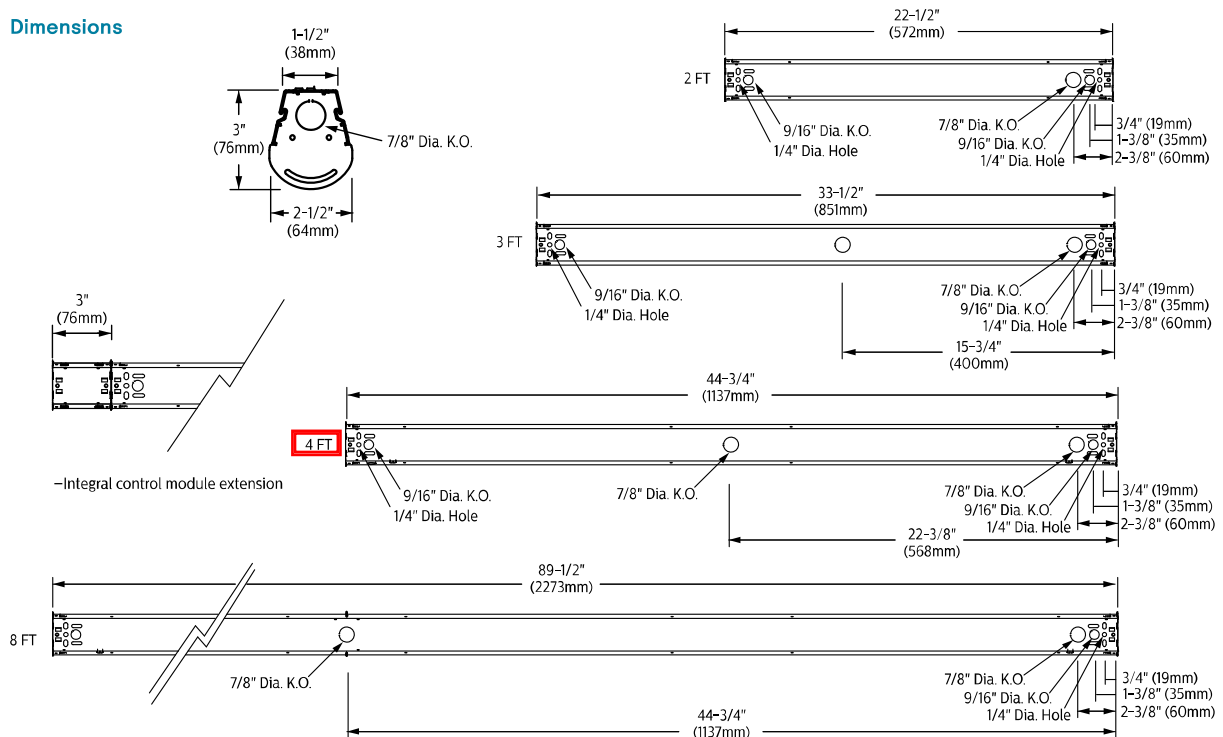
### Performance data

Fixture	Lumens	Wattage	Efficacy
FSS220L	2000lm	17W	123lm/w
FSS330L	3000lm	26W	119lm/w
FSS440L	4000lm	31W	133lm/w
FSS455L	5500lm	45W	129lm/w
FSS470L	7000lm	58W	126lm/w

### Ambient temperature data

Configuration	Ambient
FSS470L	-20°C to 30°C
FSS8110L	-20°C to 35°C
FSS8140L	-20°C to 25°C
EMLED option	Minimum 0°C
All others	-20°C to 40°C

### Dimensions





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSSEZ440L835-UNV-DIM-FKR-126

Notes:

**Type:**

**S11**

MID23-74318

## FSS FluxStream LED strip

2', 3', 4' and 8'

### Wireless Controls Options

#### SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping, wireless mesh networking and dwell time.
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/apregistration/>
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: -

**SWZDT** - [www.usa.lighting.philips.com/systems/lighting-systems/spacewise](http://www.usa.lighting.philips.com/systems/lighting-systems/spacewise)

#### Emergency Options (ER100)

- Power Sensing (Factory default) - Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) - Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

#### FluxStream strip shown with integral sensor



#### Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (SWZCS/SWZCSH and an evolution of SpaceWise)

- SWZCS/SWZCSH is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & BlueTooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
  - Compatible with:
    - SWS200 wireless scene switch
    - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
    - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
    - LCN3110: Battery powered IP65 presence sensor, OCC sensor IA CM IP65WH
    - LCN3120: Battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: [www.interact-lighting.com/interactproscalablesystem](http://www.interact-lighting.com/interactproscalablesystem)

#### Interact Pro scalable sensor bundles for Enterprise tier

- IAOSB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Compatible with SWS200 wireless scene switch and Interact Ready wireless battery powered sensors.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit: [www.interact-lighting.com/office](http://www.interact-lighting.com/office) or [www.usa.lighting.philips.com/systems/system-areas/offices](http://www.usa.lighting.philips.com/systems/system-areas/offices)

### Wired Controls Options

#### Interact PoE

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- IAOSB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- PoE lighting controller is accessible from below.
- Integral sensor option for occupancy sensing (PIR) and/or daylight harvesting available for additional energy savings.
- Optional integral emergency controller and battery pack provides 600lm nominal output. Test switch and indicator light mounted on side of chassis on one end.
- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of 20C to 30C (-4F to 86F) ambient, and 45-85% relative humidity.
- For more information, visit: [www.interact-lighting.com/office](http://www.interact-lighting.com/office) or [www.usa.lighting.philips.com/systems/system-areas/offices](http://www.usa.lighting.philips.com/systems/system-areas/offices)

FluxStream\_LED\_Strip 07/22 page 3 of 7



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSSEZ440L835-UNV-DIM-FKR-126

Notes:

**Type:**  
**S11**

MID23-74318

# FSS FluxStream LED strip

2', 3', 4' and 8'

## Photometry

### 2' FluxStream LED strip, 2000 nominal delivered lumens

LER - 123

**Catalog No.** FSS220L840-UNV-DIM  
**Test No.** 37164  
**S/MH** 1.2  
**Lamp Type** LED  
**Lumens** 2034  
**Input Watts** 17

Comparative yearly lighting energy cost per 1000 lumens – **\$1.95** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Candlepower

Angle	End	45	Cross	Back-45
0	644	644	644	644
5	635	641	646	641
15	610	618	626	618
25	520	567	585	567
35	451	474	495	474
45	371	403	432	403
55	284	324	362	324
65	191	243	288	243
75	96	167	218	167
85	18	105	155	105

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	493	24.2
0-40	790	38.9
0-60	1391	68.4
0-90	1910	93.9
90-180	124	6.1
0-180	2034	100

#### Average Luminance

Zone	End	45°	Cross
45	15155	12916	12955
55	14048	11583	11859
65	12449	10173	10781
75	9646	8758	9839
85	4206	7611	9181

#### Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20			30			50		
Ceil	80								
Wall	70	50	30	70	50	30	50	30	30
RCR									
0	118	118	118	114	114	114	108	108	108
1	106	100	94	102	96	93	92	88	88
2	95	86	79	92	83	77	80	73	73
3	86	76	67	83	73	66	69	63	63
4	79	67	57	77	65	56	61	55	55
5	72	59	50	69	57	50	55	47	47
6	67	54	45	65	52	44	50	41	41
7	61	48	40	59	47	39	45	38	38
8	57	44	35	56	42	34	41	34	34
9	54	40	32	53	40	32	38	30	30
10	51	38	30	49	37	29	35	29	29

### 3' FluxStream LED strip, 3000 nominal delivered lumens

LER - 119

**Catalog No.** FSS330L840-UNV-DIM  
**Test No.** 37132  
**S/MH** 1.3  
**Lamp Type** LED  
**Lumens** 3045  
**Input Watts** 26

Comparative yearly lighting energy cost per 1000 lumens – **\$2.02** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Candlepower

Angle	End	45	Cross	Back-45
0	982	982	982	982
5	966	978	980	978
15	927	943	948	943
25	849	869	884	869
35	738	772	795	772
45	609	655	690	655
55	435	505	554	505
65	293	356	414	356
75	148	232	301	232
85	28	129	201	129

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	759	24.9
0-40	1241	40.8
0-60	2187	71.8
0-90	2918	95.8
90-180	127	4.2
0-180	3045	100

#### Average Luminance

Zone	End	45°	Cross
45	16859	14162	13823
55	14686	12197	12138
65	13174	10098	10376
75	10412	8269	9110
85	4882	6455	7980

#### Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20			30			50		
Ceil	80								
Wall	70	50	30	70	50	30	50	30	30
RCR									
0	118	118	118	115	115	115	109	109	109
1	107	101	96	103	98	93	93	90	90
2	96	88	81	93	85	79	81	76	76
3	88	77	68	84	75	67	70	65	65
4	80	68	58	78	66	57	63	56	56
5	73	60	51	70	58	51	56	48	48
6	68	55	45	66	53	45	51	44	44
7	63	48	40	60	47	40	46	39	39
8	58	45	36	56	44	35	42	34	34
9	55	40	33	53	40	33	39	32	32
10	51	38	30	50	38	30	36	29	29



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

Notes:

MID23-74318

# FSS FluxStream LED strip

2', 3', 4' and 8'

## Photometry

### 4' FluxStream LED strip, 4000 nominal delivered lumens

LER - 133

**Catalog No.** FSS440L840-UNV-DIM  
**Test No.** 37259  
**S/MH** 1.3  
**Lamp Type** LED  
**Lumens** 4130  
**Input Watts** 31

#### Candlepower

Angle	End	45	Cross	Back-45
0	1272	1272	1272	1272
5	1250	1265	1277	1265
15	1199	1221	1237	1221
25	1098	1130	1157	1130
35	957	1005	1044	1005
45	791	860	910	860
55	606	690	758	690
65	382	481	598	481
75	194	326	416	326
85	36	196	289	196

Comparative yearly lighting energy cost per 1000 lumens - **\$1.80** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	986	23.9
0-40	1614	39.1
0-60	2886	69.9
0-90	3905	94.6
90-180	225	5.4
0-180	4130	100

#### Average Luminance

Zone	End	45'	Cross
45	16754	14171	13847
55	15678	12712	12618
65	13207	10415	11375
75	10615	8873	9550
85	5052	7511	8720

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

pfc =	20	80	70	50	30
Ceiling					
Wall	70	50	30	70	50
RCR					
0	118	118	118	114	114
1	106	101	95	103	97
2	95	86	80	93	84
3	86	76	67	83	73
4	80	67	57	77	65
5	72	59	51	70	57
6	68	54	45	65	53
7	63	48	40	59	47
8	57	44	35	56	44
9	54	40	32	53	40
10	51	38	30	49	37

### 4' FluxStream LED strip, 5500 nominal delivered lumens

LER - 129

**Catalog No.** FSS455L840-UNV-DIM  
**Test No.** 37262  
**S/MH** 1.3  
**Lamp Type** LED  
**Lumens** 5759  
**Input Watts** 45

#### Candlepower

Angle	End	45	Cross	Back-45
0	1788	1788	1788	1788
5	1757	1777	1792	1777
15	1685	1715	1736	1715
25	1544	1585	1623	1585
35	1346	1408	1462	1408
45	1113	1202	1271	1202
55	852	960	1055	960
65	575	712	828	712
75	272	443	610	443
85	50	259	389	259

Comparative yearly lighting energy cost per 1000 lumens - **\$1.86** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	1384	24
0-40	2264	39.3
0-60	4043	70.2
0-90	5478	95.1
90-180	281	4.9
0-180	5759	100

#### Average Luminance

Zone	End	45'	Cross
45	23558	19796	19347
55	22047	17697	17574
65	19887	15425	15749
75	14898	12084	14023
85	7023	9926	11749

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

pfc =	20	80	70	50	30
Ceiling					
Wall	70	50	30	70	50
RCR					
0	118	118	118	115	115
1	106	101	95	103	97
2	95	86	80	93	84
3	86	76	68	83	73
4	80	67	57	77	66
5	72	59	51	70	58
6	68	54	45	65	53
7	63	48	40	60	47
8	57	44	35	56	44
9	54	40	32	53	40
10	51	38	30	49	37

### 4' FluxStream LED strip, 7000 nominal delivered lumens

LER - 126

**Catalog No.** FSS470L840-UNV-DIM  
**Test No.** 37265  
**S/MH** 1.3  
**Lamp Type** LED  
**Lumens** 7275  
**Input Watts** 58

#### Candlepower

Angle	End	45	Cross	Back-45
0	2211	2211	2211	2211
5	2176	2199	2217	2199
15	2088	2124	2148	2124
25	1914	1966	2010	1966
35	1672	1750	1813	1750
45	1379	1502	1580	1502
55	1058	1204	1317	1204
65	714	898	1041	898
75	339	592	776	592
85	63	344	524	344

Comparative yearly lighting energy cost per 1000 lumens - **\$1.90** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	1714	23.6
0-40	2809	38.6
0-60	5028	69.1
0-90	6879	94.6
90-180	396	5.4
0-180	7275	100

#### Average Luminance

Zone	End	45'	Cross
45	29203	24745	24050
55	27371	22192	21938
65	24688	19451	19793
75	18540	16135	17825
85	8824	13174	15831

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

pfc =	20	80	70	50	30
Ceiling					
Wall	70	50	30	70	50
RCR					
0	118	118	118	114	114
1	106	100	95	103	97
2	95	86	79	92	83
3	86	76	67	83	73
4	79	67	57	77	65
5	72	59	50	69	57
6	67	54	44	65	52
7	61	47	40	59	46
8	57	44	35	56	42
9	54	40	32	52	40
10	51	37	29	49	37



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSSEZ440L835-UNV-DIM-FKR-126

Notes:

**Type:**

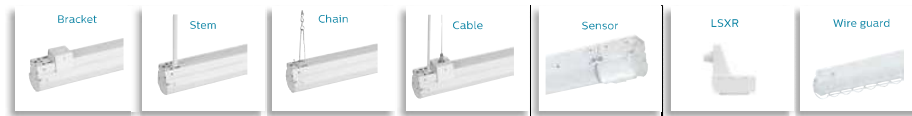
**S11**

MID23-74318

## FSS FluxStream LED strip

2', 3', 4' and 8'

### Accessories<sup>19</sup>



Accessory Catalog Code	Description	
FSTH	Sliding hanger bracket (pair)	
SV5F12	12" Stem and canopy kit	White stem and canopy kit, 1/4" trade size (1/2" O.D.) locknuts included. Works with 9/16" k.O. on base of housing.
SV5F18	18" Stem and canopy kit	
SV5F24	24" Stem and canopy kit	
SV5F36	36" Stem and canopy kit	
SV5F48	48" Stem and canopy kit	
FKR-126	Chain hanger set (pair)	Includes two 5' heavy duty link chains with "V" hooks. Attaches to base of housing.
DACHxx	Adjustable cable hanger kit (single)	Works with 1/4" hole on base of housing or FSTH hanger bracket.  xx=cable length in inches, enter 48" to 180" lengths in 12" increments
DACHxx-1-SC	Adjustable cable hanger kit with white straight 18/3 cord (single)	
DACHxx-1-CC	Adjustable cable hanger kit with white coiled 18/3 cord (single)	
DACHxx-2-SC	Adjustable cable hanger kit with white straight 18/4 cord (single)	
DACHxx-2-CC	Adjustable cable hanger kit with white coiled 18/4 cord (single)	
DACHxx-1D-SC	Adjustable cable hanger kit with white straight 18/5 cord with dimming leads (single)	
LSXR10	Low bay pir motion sensor (120-277v)	
LSXR10ADC	Low bay pir motion sensor with photocell and hi/lo trim dimming (120-277v)	
FSSWG4	4' Wire guard (order two for 8' models)	
FSSD2L	2' Diffuse replacement lens	
FSSD3L	3' Diffuse replacement lens	
FSSD4L	4' Diffuse replacement lens (order two for 8' models)	
FSSDEK	Decorative plastic end cap (set of two)	

<sup>19</sup> Consult Signify to confirm whether specific accessories are BAA-compliant.



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FluxStream\_LED\_Strip 07/22 page 7 of 7

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**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS455L835-UNV-DIM-FKR-126

**Type:**  
**S12**  
MID23-74318

Notes:

# Day-Brite

## CFI

by Signify

### Linear

#### FluxStream strip

FSS 2', 3', 4', & 8'



Day-Brite / CFI FluxStream LED strip is a high performing luminaire delivering smooth diffuse light ideal for light industrial, commercial and residential applications with unparalleled energy efficiency.

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lumens: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

**Ordering guide - standard & wireless controls**

example: FSS440L840-UNV-DIM

Series	Length (nominal)	Lumens <sup>2</sup> (nominal)	Color temp. (K)	Voltage	Driver	Options
FSS						
FSS FluxStream strip	2 2'	20L 2000 30L 3000	830 80 CRI, 3000K 835 80 CRI, 3500K	UNV Universal voltage 120-277V 120 <sup>1</sup> 120V 277 <sup>2</sup> 277V 347 <sup>5</sup> 347V	DIM <sup>11</sup> Dimming SDIM <sup>6,7</sup> Step dimming to 40% input power XDIM <sup>4,5,7</sup> MarkX phase dimming DALI <sup>8</sup> DALI	EMLED <sup>9,5,9</sup> Factory wired Bodine BSL310LP integral emergency pack. Nominal 1100lm ER100 <sup>10,13,17</sup> UL924 listed bypass sensor relay, factory installed between driver & sensor PS/PI (Interact Pro compatible) ER100/HVPS <sup>12,13,17</sup> UL924 listed sensor bypass relay, factory installed between driver & sensor for 347/480 Power Sense (Interact Pro compatible) ER100/HVPI <sup>12,13,17</sup> UL924 listed sensor bypass relay, factory installed between driver & sensor for 347/480 Power Interrupt (Interact Pro compatible) GTD/E <sup>18</sup> UL924 listed Bodine GTD factory installed on driver input GTD/SNSR <sup>12,13</sup> UL924 listed Bodine GTD factory installed between driver & sensor (alternate option to ER100) SWZCS <sup>10,15</sup> Interact Pro scalable sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SWZDT <sup>10</sup> SpaceWise sensor, daylighting and occupancy, advanced grouping, with dwell time RADIO <sup>10</sup> Integral Interact Pro RF sensor, enables wireless connected lighting control SWZCSH <sup>14</sup> Interact Pro scalable high bay sensor with integral daylight & occupancy sensing, advanced grouping with dwell time for high mounting heights IAOSB <sup>10,15</sup> Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities LSXR10 120-347V motion sensor, factory installed on end cap LSXR10ADC <sup>10</sup> 120-347V motion sensor with photocell and hi/lo trim dimming, factory installed on end cap PAF Paint after fabrication for extra corrosion resistance (white) BK Matte black paint color ST Satin aluminum paint color BAC <sup>19</sup> Meets the requirements of the Buy American Act of 1933 (BAA)
	3 3'	30L 3000				
	4 4'	30L 3000 40L 4000 55L 5500 70L 7000				
	8' 8'	60L 6000 80L 8000 110L 11000 140L 14000				

**Ordering guide - PoE controls example: FSS440L840-LV-POE-IAO**

Series	Length (nominal)	Lumens <sup>2</sup> (nominal)	Color temp. (K)	Voltage	Driver	Options
FSS				LV	POE	
FSS FluxStream Strip	4 4'	30L 3000 40L 4000 60L 6000	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	LV Low voltage	POE Power over ethernet	IAO Interact PoE daylighting and occupancy sensor, enables wired connected lighting control EMPOE <sup>16</sup> 600lm integral emergency driver and battery pack PAF Paint after fabrication for extra corrosion resistance (white) BK Matte black paint color ST Satin aluminum paint color IAOSB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
	8' 8'	60L 6000				

- 1 8' is tandem (2) 4' lenses with single piece 8' body.
- 2 Nominal delivered lumens at 25°C ambient.
- 3 Not available in 3' model.
- 4 XDIM option only available with 120V.
- 5 347V with EMLED only available in 8' models.
- 6 Not available in 2' or 3' model.
- 7 Not available in 4' 70L model or 8' 140L model.
- 8 DALI available up to 80L models only, consult factory for other options.
- 9 EMLED on 8' models illuminates 4' section in emergency mode.
- 10 Available with DIM driver option only.
- 11 Integral controls options dimmable to 5% via wireless wall switch. Non-integral controls configurations are 0-10V dimmable to 1%.
- 12 Must be installed in conjunction with a UL1008 device.
- 13 Must be ordered with an integral sensing option.
- 14 High bay motion detector. Motion sensing zone is extremely limited if used below 15' mounting height.
- 15 Must order IRT9015 Interact commissioning remote with each system order.
- 16 EMLED on 8' models illuminates 4' section in emergency mode.
- 17 ER100 options not available in 2' 3' only has availability when selecting UNV.
- 18 Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- 19 Consult Signify to confirm whether specific accessories are BAA-compliant.

**Accessories<sup>19</sup> (order separately)**

- FSSD2L - 2' Diffuse replacement lens
  - FSSD3L - 3' Diffuse replacement lens
  - FSSD4L - 4' Diffuse replacement lens (order two for 8' models)
  - FSSW4 - 4' wire guard (order two for 8' models)
  - FSTH - Sliding hanger bracket (set of two)
  - LSXR10 - Low bay PIR motion sensor, 120-277V (not available with PoE)
  - LSXR10ADC - Low bay PIR motion sensor with photocell and hi/lo trim dimming, 120-277V (not available with PoE)
  - FSSDEK - Decorative plastic end cap (set of two)
- (See last page for details and more options)

**SWZCS accessories<sup>19</sup> (order separately)**

- IRT9015 - handheld remote for grouping and configuration (at least one remote required for any SWZCS installation).

**General notes**

Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

PAF (Paint after fabrication) option is required for all products that will be used in a damp or humid location, such as under a canopy or covered parking area.







**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS455L835-UNV-DIM-FKR-126

**Type:**  
**S12**

Notes:

MID23-74318

# FSS FluxStream LED strip

## 2', 3', 4' and 8'

### Features

- Compact design for installation in tight spaces.
- Frosted acrylic diffuser provides wide light distribution and superior glare control.
- Diffuser and LED plate snap into place allowing tool-free access to LED boards and driver.
- 2', 3', 4' and 8' tandem lengths available to accommodate many field applications.
- Up to 100,000 hour predicted L70 LED lumen maintenance provides long service life to reduce maintenance costs.
- Can be surface mounted on ceilings or walls, or suspended via chain, pendants or cables.
- Wall mountable - ADA compliant.
- Ideal for cold applications (-20°C).
- Continuous row mounting using standard end caps. No extra parts needed.
- 7/8" knock out provided at each end and on base of luminaire. Note: Center knockout is covered and not useable in 4' version with EMLED option.
- Multiple driver options available with 0-10V as standard.
- Enclosed lens minimizes penetration of dust, insects, and other debris into the LED compartment.

- 8' tandem unit is two 4' optical assemblies with a center mullion on a single full length chassis.
- Integral controls options include sensor mounted in control module extension mounted on fixture end (see dimension drawing).
- Fluxstream luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers [www.designlights.org/QPL](http://www.designlights.org/QPL).
- 5 year manufacturer's limited warranty. Visit [signify.com/warranties](http://signify.com/warranties) for complete warranty information.

### Finish

- Baked white acrylic matte high reflectance paint finish.
- PAF (Paint after fabrication) option, which is required for all products that will be used in damp or humid locations, such as a canopy or covered parking area, provides extra corrosion resistance.

### Shielding

- Contoured frosted acrylic lens.

### Electrical

- LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant. Total system life rated at 50,000 hours. Predicted L70 lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- Integral emergency driver with EMLED option. To estimate lumen output in emergency mode, multiply emergency pack wattage by efficacy, then by 1.10.
- The GTD/E option is used to bypass wall switches and allow luminaire operation on auxiliary power. Generator transfer requires installation in conjunction with a UL1008 listed device.
- The GTD/SNSR option is used to bypass integrated sensor control in the event of utility power loss. Generator transfer requires installation in conjunction with a UL1008 listed device.

### Materials

- Heavy gauge cold rolled steel housing, LED plate, and end caps.

### Labels

- cETLus listed.
- Suitable for damp locations.

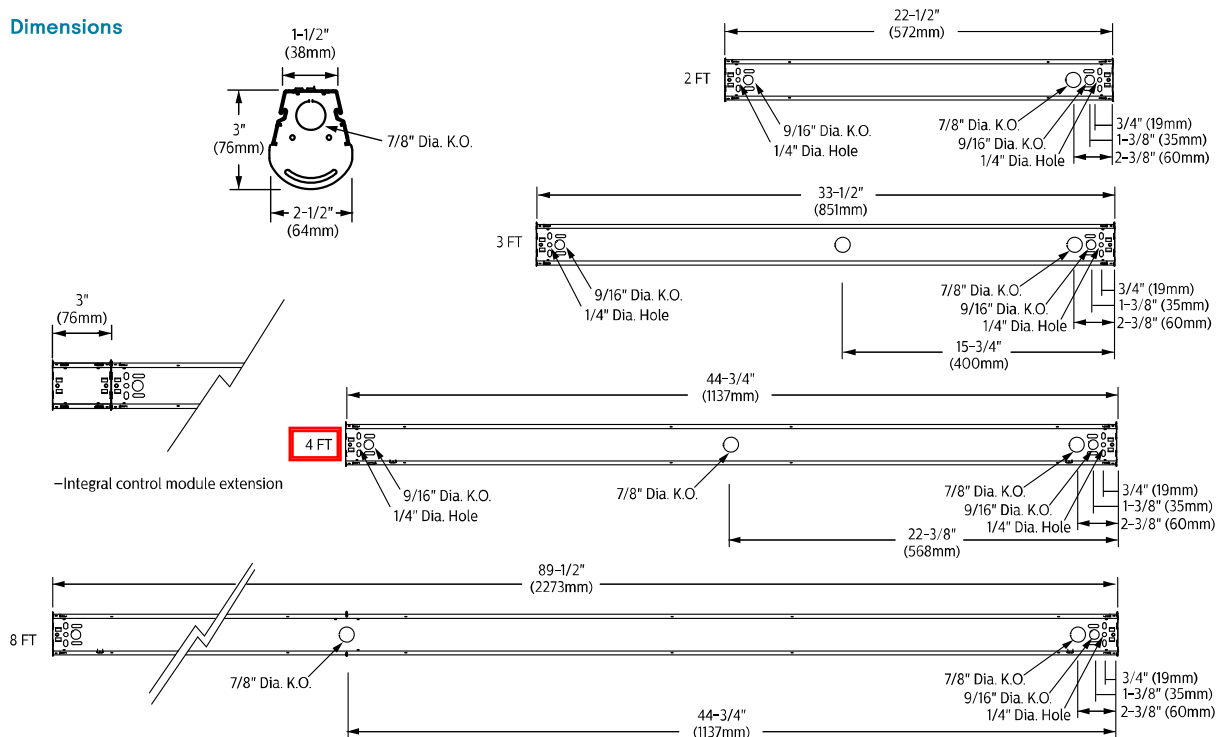
### Performance data

Fixture	Lumens	Wattage	Efficacy
FSS220L	2000lm	17W	123lm/w
FSS330L	3000lm	26W	119lm/w
FSS440L	4000lm	31W	133lm/w
FSS455L	5500lm	45W	129lm/w
FSS470L	7000lm	58W	126lm/w

### Ambient temperature data

Configuration	Ambient
FSS470L	-20°C to 30°C
FSS8110L	-20°C to 35°C
FSS8140L	-20°C to 25°C
EMLED option	Minimum 0°C
All others	-20°C to 40°C

### Dimensions





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS455L835-UNV-DIM-FKR-126

**Type:**  
**S12**

Notes:

MID23-74318

# FSS FluxStream LED strip

## 2', 3', 4' and 8'

### Wireless Controls Options

#### SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping, wireless mesh networking and dwell time.
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/apregistration/>
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: -

**SWZDT** - [www.usa.lighting.philips.com/systems/lighting-systems/spacewise](http://www.usa.lighting.philips.com/systems/lighting-systems/spacewise)

#### Emergency Options (ER100)

- Power Sensing (Factory default) - Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) - Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

#### FluxStream strip shown with integral sensor



#### Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (SWZCS/SWZCSH and an evolution of SpaceWise)

- SWZCS/SWZCSH is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & BlueTooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
  - Compatible with:
    - SWS200 wireless scene switch
    - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
    - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
    - LCN3110: Battery powered IP65 presence sensor, OCC sensor IA CM IP65WH
    - LCN3120: Battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: [www.interact-lighting.com/interactproscalablesystem](http://www.interact-lighting.com/interactproscalablesystem)

#### Interact Pro scalable sensor bundles for Enterprise tier

- IAOSB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Compatible with SWS200 wireless scene switch and Interact Ready wireless battery powered sensors.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit: [www.interact-lighting.com/office](http://www.interact-lighting.com/office) or [www.usa.lighting.philips.com/systems/system-areas/offices](http://www.usa.lighting.philips.com/systems/system-areas/offices)

### Wired Controls Options

#### Interact PoE

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- IAOSB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- PoE lighting controller is accessible from below.
- Integral sensor option for occupancy sensing (PIR) and/or daylight harvesting available for additional energy savings.
- Optional integral emergency controller and battery pack provides 600lm nominal output. Test switch and indicator light mounted on side of chassis on one end.
- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of 20C to 30C (-4F to 86F) ambient, and 45-85% relative humidity.
- For more information, visit: [www.interact-lighting.com/office](http://www.interact-lighting.com/office) or [www.usa.lighting.philips.com/systems/system-areas/offices](http://www.usa.lighting.philips.com/systems/system-areas/offices)

FluxStream\_LED\_Strip 07/22 page 3 of 7



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS455L835-UNV-DIM-FKR-126

Notes:

**Type:**  
**S12**

MID23-74318

# FSS FluxStream LED strip

2', 3', 4' and 8'

## Photometry

### 2' FluxStream LED strip, 2000 nominal delivered lumens

LER - 123

**Catalog No.** FSS220L840-UNV-DIM  
**Test No.** 37164  
**S/MH** 1.2  
**Lamp Type** LED  
**Lumens** 2034  
**Input Watts** 17

Comparative yearly lighting energy cost per 1000 lumens – **\$1.95** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Candlepower

Angle	End	45	Cross	Back-45
0	644	644	644	644
5	635	641	646	641
15	610	618	626	618
25	520	567	585	567
35	451	474	495	474
45	371	403	432	403
55	284	324	362	324
65	191	243	288	243
75	96	167	218	167
85	18	105	155	105

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	493	24.2
0-40	790	38.9
0-60	1391	68.4
0-90	1910	93.9
90-180	124	6.1
0-180	2034	100

#### Average Luminance

Zone	End	45°	Cross
45	15155	12916	12955
55	14048	11583	11859
65	12449	10173	10781
75	9646	8758	9839
85	4206	7611	9181

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

pfc =	20									
Ceil		80			70			50		
Wall	70	50	30	70	50	30	50	30		
RCR										
0	118	118	118	114	114	114	108	108		
1	106	100	94	102	96	93	92	88		
2	95	86	79	92	83	77	80	73		
3	86	76	67	83	73	66	69	63		
4	79	67	57	77	65	56	61	55		
5	72	59	50	69	57	50	55	47		
6	67	54	45	65	52	44	50	41		
7	61	48	40	59	47	39	45	38		
8	57	44	35	56	42	34	41	34		
9	54	40	32	53	40	32	38	30		
10	51	38	30	49	37	29	35	29		

### 3' FluxStream LED strip, 3000 nominal delivered lumens

LER - 119

**Catalog No.** FSS330L840-UNV-DIM  
**Test No.** 37132  
**S/MH** 1.3  
**Lamp Type** LED  
**Lumens** 3045  
**Input Watts** 26

Comparative yearly lighting energy cost per 1000 lumens – **\$2.02** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Candlepower

Angle	End	45	Cross	Back-45
0	982	982	982	982
5	966	978	980	978
15	927	943	948	943
25	849	869	884	869
35	738	772	795	772
45	609	655	690	655
55	435	505	554	505
65	293	356	414	356
75	148	232	301	232
85	28	129	201	129

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	759	24.9
0-40	1241	40.8
0-60	2187	71.8
0-90	2918	95.8
90-180	127	4.2
0-180	3045	100

#### Average Luminance

Zone	End	45°	Cross
45	16859	14162	13823
55	14686	12197	12138
65	13174	10098	10376
75	10412	8269	9110
85	4882	6455	7980

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

pfc =	20									
Ceil		80			70			50		
Wall	70	50	30	70	50	30	50	30		
RCR										
0	118	118	118	115	115	115	109	109		
1	107	101	96	103	98	93	93	90		
2	96	88	81	93	85	79	81	76		
3	88	77	68	84	75	67	70	65		
4	80	68	58	78	66	57	63	56		
5	73	60	51	70	58	51	56	48		
6	68	55	45	66	53	45	51	44		
7	63	48	40	60	47	40	46	39		
8	58	45	36	56	44	35	42	34		
9	55	40	33	53	40	33	39	32		
10	51	38	30	50	38	30	36	29		



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS455L835-UNV-DIM-FKR-126

**Type:**  
**S12**

Notes:

MID23-74318

# FSS FluxStream LED strip

## 2', 3', 4' and 8'

### Photometry

#### 4' FluxStream LED strip, 4000 nominal delivered lumens

LER - 133

**Catalog No.** FSS440L840-UNV-DIM  
**Test No.** 37259  
**S/MH** 1.3  
**Lamp Type** LED  
**Lumens** 4130  
**Input Watts** 31

Comparative yearly lighting energy cost per 1000 lumens - **\$1.80** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Candlepower

Angle	End	45	Cross	Back-45
0	1272	1272	1272	1272
5	1250	1265	1277	1265
15	1199	1221	1237	1221
25	1098	1130	1157	1130
35	957	1005	1044	1005
45	791	860	910	860
55	606	690	758	690
65	382	481	598	481
75	194	326	416	326
85	36	196	289	196

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	986	23.9
0-40	1614	39.1
0-60	2886	69.9
0-90	3905	94.6
90-180	225	5.4
0-180	4130	100

#### Average Luminance

Zone	End	45'	Cross
45	16754	14171	13847
55	15678	12712	12618
65	13207	10415	11375
75	10615	8873	9550
85	5052	7511	8720

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

pfc =	20	80	70	50	30	50	30
Ceiling							
Wall	70	50	30	70	50	30	50
RCR							
0	118	118	118	114	114	114	108
1	106	101	95	103	97	93	92
2	95	86	80	93	84	78	80
3	86	76	67	83	73	66	69
4	80	67	57	77	65	56	61
5	72	59	51	70	57	50	56
6	68	54	45	65	53	44	50
7	63	48	40	59	47	39	46
8	57	44	35	56	44	34	41
9	54	40	32	53	40	32	38
10	51	38	30	49	37	29	35

#### 4' FluxStream LED strip, 5500 nominal delivered lumens

LER - 129

**Catalog No.** FSS455L840-UNV-DIM  
**Test No.** 37262  
**S/MH** 1.3  
**Lamp Type** LED  
**Lumens** 5759  
**Input Watts** 45

Comparative yearly lighting energy cost per 1000 lumens - **\$1.86** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Candlepower

Angle	End	45	Cross	Back-45
0	1788	1788	1788	1788
5	1757	1777	1792	1777
15	1685	1715	1736	1715
25	1544	1585	1623	1585
35	1346	1408	1462	1408
45	1113	1202	1271	1202
55	852	960	1055	960
65	575	712	828	712
75	272	443	610	443
85	50	259	389	259

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	1384	24
0-40	2264	39.3
0-60	4043	70.2
0-90	5478	95.1
90-180	281	4.9
0-180	5759	100

#### Average Luminance

Zone	End	45'	Cross
45	23558	19796	19347
55	22047	17697	17574
65	19887	15425	15749
75	14898	12084	14023
85	7023	9926	11749

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

pfc =	20	80	70	50	30	50	30
Ceiling							
Wall	70	50	30	70	50	30	50
RCR							
0	118	118	118	115	115	115	108
1	106	101	95	103	97	93	89
2	95	86	80	93	84	78	80
3	86	76	68	83	73	66	69
4	80	67	57	77	66	56	61
5	72	59	51	70	58	50	56
6	68	54	45	65	53	44	50
7	63	48	40	60	47	39	46
8	57	44	35	56	44	34	41
9	54	40	32	53	40	32	38
10	51	38	30	49	37	29	36

#### 4' FluxStream LED strip, 7000 nominal delivered lumens

LER - 126

**Catalog No.** FSS470L840-UNV-DIM  
**Test No.** 37265  
**S/MH** 1.3  
**Lamp Type** LED  
**Lumens** 7275  
**Input Watts** 58

Comparative yearly lighting energy cost per 1000 lumens - **\$1.90** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Candlepower

Angle	End	45	Cross	Back-45
0	2211	2211	2211	2211
5	2176	2199	2217	2199
15	2088	2124	2148	2124
25	1914	1966	2010	1966
35	1672	1750	1813	1750
45	1379	1502	1580	1502
55	1058	1204	1317	1204
65	714	898	1041	898
75	339	592	776	592
85	63	344	524	344

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	1714	23.6
0-40	2809	38.6
0-60	5028	69.1
0-90	6879	94.6
90-180	396	5.4
0-180	7275	100

#### Average Luminance

Zone	End	45'	Cross
45	29203	24745	24050
55	27371	22192	21938
65	24688	19451	19793
75	18540	16135	17825
85	8824	13174	15831

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

pfc =	20	80	70	50	30	50	30
Ceiling							
Wall	70	50	30	70	50	30	50
RCR							
0	118	118	118	114	114	114	108
1	106	100	95	103	97	93	89
2	95	86	79	92	83	78	80
3	86	76	67	83	73	66	69
4	79	67	57	77	65	56	61
5	72	59	50	69	57	48	55
6	67	54	44	65	52	44	50
7	61	47	40	59	46	39	45
8	57	44	35	56	42	34	40
9	54	40	32	52	40	32	38
10	51	37	29	49	37	29	35



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS455L835-UNV-DIM-FKR-126

**Type:**

**S12**

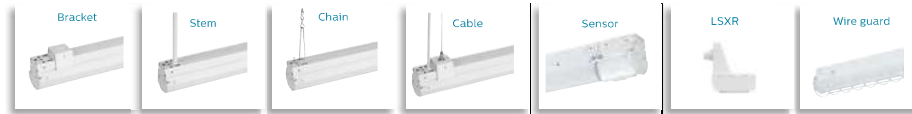
Notes:

MID23-74318

## FSS FluxStream LED strip

2', 3', 4' and 8'

### Accessories<sup>19</sup>



Accessory Catalog Code	Description	
FSTH	Sliding hanger bracket (pair)	
SV5F12	12" Stem and canopy kit	White stem and canopy kit, 1/4" trade size (1/2" O.D.) locknuts included. Works with 9/16" k.O. on base of housing.
SV5F18	18" Stem and canopy kit	
SV5F24	24" Stem and canopy kit	
SV5F36	36" Stem and canopy kit	
SV5F48	48" Stem and canopy kit	
FKR-126	Chain hanger set (pair)	Includes two 5' heavy duty link chains with "V" hooks. Attaches to base of housing.
DACHxx	Adjustable cable hanger kit (single)	Works with 1/4" hole on base of housing or FSTH hanger bracket.  xx=cable length in inches, enter 48" to 180" lengths in 12" increments
DACHxx-1-SC	Adjustable cable hanger kit with white straight 18/3 cord (single)	
DACHxx-1-CC	Adjustable cable hanger kit with white coiled 18/3 cord (single)	
DACHxx-2-SC	Adjustable cable hanger kit with white straight 18/4 cord (single)	
DACHxx-2-CC	Adjustable cable hanger kit with white coiled 18/4 cord (single)	
DACHxx-1D-SC	Adjustable cable hanger kit with white straight 18/5 cord with dimming leads (single)	
LSXR10	Low bay pir motion sensor (120-277v)	
LSXR10ADC	Low bay pir motion sensor with photocell and hi/lo trim dimming (120-277v)	
FSSWG4	4' Wire guard (order two for 8' models)	
FSSD2L	2' Diffuse replacement lens	
FSSD3L	3' Diffuse replacement lens	
FSSD4L	4' Diffuse replacement lens (order two for 8' models)	
FSSDEK	Decorative plastic end cap (set of two)	

<sup>19</sup> Consult Signify to confirm whether specific accessories are BAA-compliant.



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**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS455L835-UNV-DIM-EMLED-FKR-126  
Notes:

**Type:**  
**S12X**  
MID23-74318

**Day-Brite**  
**CFI**  
by **Signify**

**Linear**

**FluxStream strip**

FSS 2', 3', 4', & 8'



Control options available

Day-Brite / CFI FluxStream LED strip is a high performing luminaire delivering smooth diffuse light ideal for light industrial, commercial and residential applications with unparalleled energy efficiency.

Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lumens: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

**Ordering guide - standard & wireless controls**

example: FSS440L840-UNV-DIM

Series	Length (nominal)	Lumens <sup>2</sup> (nominal)	Color temp. (K)	Voltage	Driver	Options
FSS						
FSS FluxStream strip	2' 2'	20L 2000 30L 3000	830 80 CRI, 3000K 835 80 CRI, 3500K	UNV Universal voltage 120-277V	DIM <sup>11</sup> Dimming SDIM <sup>6,7</sup> Step dimming to 40% input power XDIM <sup>4,5,7</sup> MarkX phase dimming DALI <sup>8</sup> DALI	EMLED <sup>5,6,9</sup> Factory wired Bodine BSL310LP integral emergency pack. Nominal 1100lm ER100 <sup>10,13,19</sup> UL924 listed bypass sensor relay, factory installed between driver & sensor PS/PI (Interact Pro compatible) ER100/HVPS <sup>12,13,17</sup> UL924 listed sensor bypass relay, factory installed between driver & sensor for 347/480 Power Sense (Interact Pro compatible) ER100/HVPI <sup>12,13,17</sup> UL924 listed sensor bypass relay, factory installed between driver & sensor for 347/480 Power Interrupt (Interact Pro compatible) GTD/E <sup>12</sup> UL924 listed Bodine GTD factory installed on driver input GTD/SNSR <sup>12,13</sup> UL924 listed Bodine GTD factory installed between driver & sensor (alternate option to ER100) SWZCS <sup>10,15</sup> Interact Pro scalable sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SWZDT <sup>10</sup> SpaceWise sensor, daylighting and occupancy, advanced grouping, with dwell time RADIO <sup>10</sup> Integral Interact Pro RF sensor, enables wireless connected lighting control SWZCSH <sup>14</sup> Interact Pro scalable high bay sensor with integral daylight & occupancy sensing, advanced grouping with dwell time for high mounting heights IAOSB <sup>10,15</sup> Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities LSXR10 120-347V motion sensor, factory installed on end cap LSXR10ADC <sup>10</sup> 120-347V motion sensor with photocell and hi/lo trim dimming, factory installed on end cap PAF Paint after fabrication for extra corrosion resistance (white) BK Matte black paint color ST Satin aluminum paint color BAC <sup>18</sup> Meets the requirements of the Buy American Act of 1933 (BAA)
	3' 3'	30L 3000				
	4' 4'	30L 3000 40L 4000 55L 5500 70L 7000	840 80 CRI, 4000K 850 <sup>8</sup> 80 CRI, 5000K	120 <sup>1</sup> 120V 277 <sup>1</sup> 277V 347 <sup>5</sup> 347V		
	8' 8'	60L 6000 80L 8000 110L 11000 140L 14000				

**Ordering guide - PoE controls example: FSS440L840-LV-POE-IAO**

Series	Length (nominal)	Lumens <sup>2</sup> (nominal)	Color temp. (K)	Voltage	Driver	Options
FSS				LV	POE	
FSS FluxStream Strip	4' 4'	30L 3000 40L 4000 60L 6000	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	LV Low voltage	POE Power over ethernet	IAO Interact PoE daylighting and occupancy sensor, enables wired connected lighting control EMPOE <sup>16</sup> 600lm integral emergency driver and battery pack PAF Paint after fabrication for extra corrosion resistance (white) BK Matte black paint color ST Satin aluminum paint color IAOSB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
	8' 8'	60L 6000				

- 8' is tandem (2) 4' lenses with single piece 8' body.
- Nominal delivered lumens at 25°C ambient.
- Not available in 3' model.
- XDIM option only available with 120V.
- 347V with EMLED only available in 8' models.
- Not available in 2' or 3' model.
- Not available in 4' 70L model or 8' 140L model.
- DALI available up to 80L models only, consult factory for other options.
- EMLED on 8' models illuminates 4' section in emergency mode.
- Available with DIM driver option only.
- Integral controls options dimmable to 5% via wireless wall switch. Non-integral controls configurations are 0-10V dimmable to 1%.
- Must be installed in conjunction with a UL1008 device.
- Must be ordered with an integral sensing option.
- High bay motion detector. Motion sensing zone is extremely limited if used below 15' mounting height.
- Must order IRT9015 Interact commissioning remote with each system order.
- EMLED on 8' models illuminates 4' section in emergency mode.
- ER100 options not available in 2' 3' only has availability when selecting UNV.
- Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- Consult Signify to confirm whether specific accessories are BAA-compliant.

**Accessories<sup>19</sup> (order separately)**

- FSSD2L - 2' Diffuse replacement lens
  - FSSD3L - 3' Diffuse replacement lens
  - FSSD4L - 4' Diffuse replacement lens (order two for 8' models)
  - FSSWG4 - 4' wire guard (order two for 8' models)
  - FSTH - Sliding hanger bracket (set of two)
  - LSXR10 - Low bay PIR motion sensor, 120-277V (not available with PoE)
  - LSXR10ADC - Low bay PIR motion sensor with photocell and hi/lo trim dimming, 120-277V (not available with PoE)
  - FSSDEK - Decorative plastic end cap (set of two)
- (See last page for details and more options)

**SWZCS accessories<sup>19</sup> (order separately)**

- IRT9015 - handheld remote for grouping and configuration (at least one remote required for any SWZCS installation).

**General notes**

Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.  
PAF (Paint after fabrication) option is required for all products that will be used in a damp or humid location, such as under a canopy or covered parking area.



**interact ready.**





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS455L835-UNV-DIM-EMLED-FKR-126  
Notes:

**Type:**  
**S12X**  
MID23-74318

# FSS FluxStream LED strip

2', 3', 4' and 8'

## Features

- Compact design for installation in tight spaces.
- Frosted acrylic diffuser provides wide light distribution and superior glare control.
- Diffuser and LED plate snap into place allowing tool-free access to LED boards and driver.
- 2', 3', 4' and 8' tandem lengths available to accommodate many field applications.
- Up to 100,000 hour predicted L70 LED lumen maintenance provides long service life to reduce maintenance costs.
- Can be surface mounted on ceilings or walls, or suspended via chain, pendants or cables.
- Wall mountable – ADA compliant.
- Ideal for cold applications (~20°C).
- Continuous row mounting using standard end caps. No extra parts needed.
- 7/8" knock out provided at each end and on base of luminaire. Note: Center knockout is covered and not useable in 4' version with EMLED option.
- Multiple driver options available with 0-10V as standard.
- Enclosed lens minimizes penetration of dust, insects, and other debris into the LED compartment.

- 8' tandem unit is two 4' optical assemblies with a center mullion on a single full length chassis.
- Integral controls options include sensor mounted in control module extension mounted on fixture end (see dimension drawing).
- Fluxstream luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers [www.designlights.org/QPL](http://www.designlights.org/QPL).
- 5 year manufacturer's limited warranty. Visit [signify.com/warranties](http://signify.com/warranties) for complete warranty information.

## Finish

- Baked white acrylic matte high reflectance paint finish.
- PAF (Paint after fabrication) option, which is required for all products that will be used in damp or humid locations, such as a canopy or covered parking area, provides extra corrosion resistance.

## Shielding

- Contoured frosted acrylic lens.

## Electrical

- LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant. Total system life rated at 50,000 hours. Predicted L70 lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.
- Integral emergency driver with EMLED option. To estimate lumen output in emergency mode, multiply emergency pack wattage by efficacy, then by 1.10.
- The GTD/E option is used to bypass wall switches and allow luminaire operation on auxiliary power. Generator transfer requires installation in conjunction with a UL1008 listed device.
- The GTD/SNSR option is used to bypass integrated sensor control in the event of utility power loss. Generator transfer requires installation in conjunction with a UL1008 listed device.

## Materials

- Heavy gauge cold rolled steel housing, LED plate, and end caps.

## Labels

- cETLus listed.
- Suitable for damp locations.

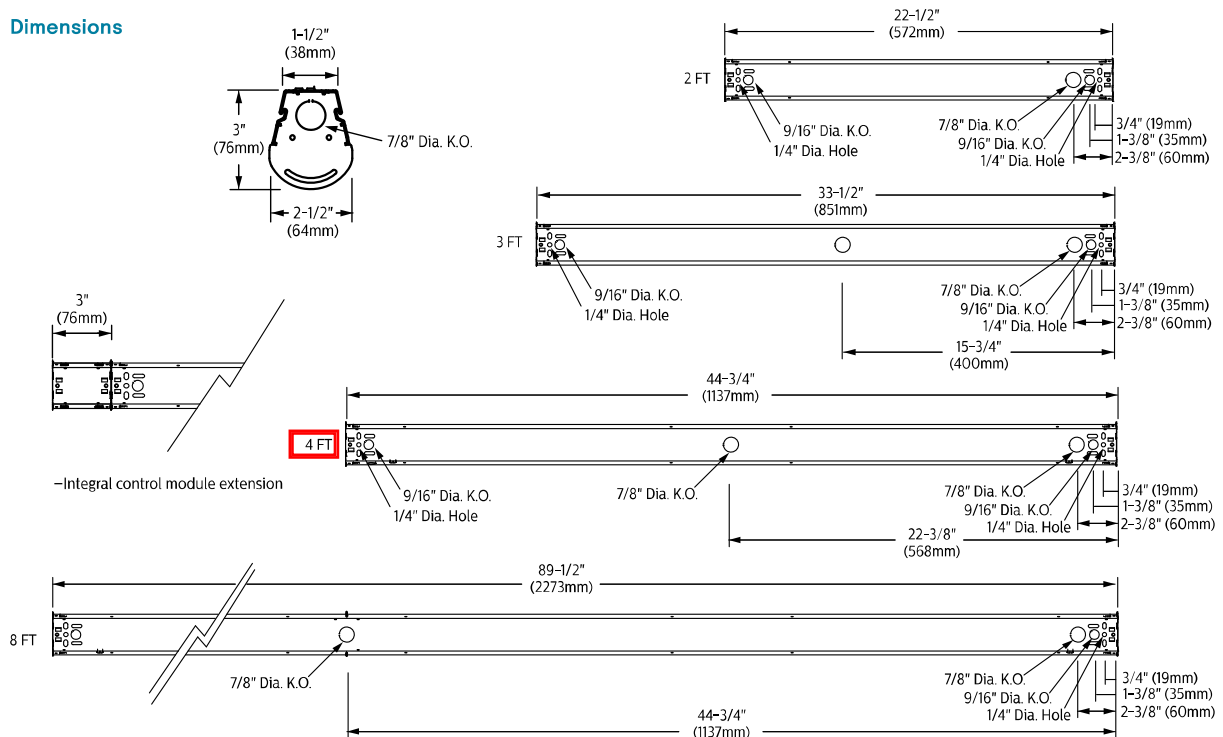
## Performance data

Fixture	Lumens	Wattage	Efficacy
FSS220L	2000lm	17W	123lm/w
FSS330L	3000lm	26W	119lm/w
FSS440L	4000lm	31W	133lm/w
FSS455L	5500lm	45W	129lm/w
FSS470L	7000lm	58W	126lm/w

## Ambient temperature data

Configuration	Ambient
FSS470L	-20°C to 30°C
FSS8110L	-20°C to 35°C
FSS8140L	-20°C to 25°C
EMLED option	Minimum 0°C
All others	-20°C to 40°C

## Dimensions







**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
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Notes:

**Type:**  
**S12X**  
MID23-74318

# FSS FluxStream LED strip

2', 3', 4' and 8'

## Wireless Controls Options

### SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping, wireless mesh networking and dwell time.
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/apregistration/>
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: -

**SWZDT** - [www.usa.lighting.philips.com/systems/lighting-systems/spacewise](http://www.usa.lighting.philips.com/systems/lighting-systems/spacewise)

### Emergency Options (ER100)

- Power Sensing (Factory default) - Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) - Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

### FluxStream strip shown with integral sensor



### Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (SWZCS/SWZCSH and an evolution of SpaceWise)

- SWZCS/SWZCSH is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & BlueTooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
  - Compatible with:
    - SWS200 wireless scene switch
    - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
    - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
    - LCN3110: Battery powered IP65 presence sensor, OCC sensor IA CM IP65WH
    - LCN3120: Battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: [www.interact-lighting.com/interactproscalablesystem](http://www.interact-lighting.com/interactproscalablesystem)

### Interact Pro scalable sensor bundles for Enterprise tier

- IAOSB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Compatible with SWS200 wireless scene switch and Interact Ready wireless battery powered sensors.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit: [www.interact-lighting.com/office](http://www.interact-lighting.com/office) or [www.usa.lighting.philips.com/systems/system-areas/offices](http://www.usa.lighting.philips.com/systems/system-areas/offices)

## Wired Controls Options

### Interact PoE

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- IAOSB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- PoE lighting controller is accessible from below.
- Integral sensor option for occupancy sensing (PIR) and/or daylight harvesting available for additional energy savings.
- Optional integral emergency controller and battery pack provides 600lm nominal output. Test switch and indicator light mounted on side of chassis on one end.
- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of 20C to 30C (-4F to 86F) ambient, and 45-85% relative humidity.
- For more information, visit: [www.interact-lighting.com/office](http://www.interact-lighting.com/office) or [www.usa.lighting.philips.com/systems/system-areas/offices](http://www.usa.lighting.philips.com/systems/system-areas/offices)

FluxStream\_LED\_Strip 07/22 page 3 of 7



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS455L835-UNV-DIM-EMLED-FKR-126  
Notes:

**Type:**  
**S12X**  
MID23-74318

# FSS FluxStream LED strip

2', 3', 4' and 8'

## Photometry

### 2' FluxStream LED strip, 2000 nominal delivered lumens

LER - 123

**Catalog No.** FSS220L840-UNV-DIM  
**Test No.** 37164  
**S/MH** 1.2  
**Lamp Type** LED  
**Lumens** 2034  
**Input Watts** 17

Comparative yearly lighting energy cost per 1000 lumens – **\$1.95** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Candlepower

Angle	End	45	Cross	Back-45
0	644	644	644	644
5	635	641	646	641
15	610	618	626	618
25	520	567	585	567
35	451	474	495	474
45	371	403	432	403
55	284	324	362	324
65	191	243	288	243
75	96	167	218	167
85	18	105	155	105

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	493	24.2
0-40	790	38.9
0-60	1391	68.4
0-90	1910	93.9
90-180	124	6.1
0-180	2034	100

#### Average Luminance

Zone	End	45°	Cross
45	15155	12916	12955
55	14048	11583	11859
65	12449	10173	10781
75	9646	8758	9839
85	4206	7611	9181

#### Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20			70			50		
Ceil									
Wall	70	50	30	70	50	30	50	30	
RCR									
0	118	118	118	114	114	114	108	108	
1	106	100	94	102	96	93	92	88	
2	95	86	79	92	83	77	80	73	
3	86	76	67	83	73	66	69	63	
4	79	67	57	77	65	56	61	55	
5	72	59	50	69	57	50	55	47	
6	67	54	45	65	52	44	50	41	
7	61	48	40	59	47	39	45	38	
8	57	44	35	56	42	34	41	34	
9	54	40	32	53	40	32	38	30	
10	51	38	30	49	37	29	35	29	

### 3' FluxStream LED strip, 3000 nominal delivered lumens

LER - 119

**Catalog No.** FSS330L840-UNV-DIM  
**Test No.** 37132  
**S/MH** 1.3  
**Lamp Type** LED  
**Lumens** 3045  
**Input Watts** 26

Comparative yearly lighting energy cost per 1000 lumens – **\$2.02** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Candlepower

Angle	End	45	Cross	Back-45
0	982	982	982	982
5	966	978	980	978
15	927	943	948	943
25	849	869	884	869
35	738	772	795	772
45	609	655	690	655
55	435	505	554	505
65	293	356	414	356
75	148	232	301	232
85	28	129	201	129

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	759	24.9
0-40	1241	40.8
0-60	2187	71.8
0-90	2918	95.8
90-180	127	4.2
0-180	3045	100

#### Average Luminance

Zone	End	45°	Cross
45	16859	14162	13823
55	14686	12197	12138
65	13174	10098	10376
75	10412	8269	9110
85	4882	6455	7980

#### Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20			70			50		
Ceil									
Wall	70	50	30	70	50	30	50	30	
RCR									
0	118	118	118	115	115	115	109	109	
1	107	101	96	103	98	93	93	90	
2	96	88	81	93	85	79	81	76	
3	88	77	68	84	75	67	70	65	
4	80	68	58	78	66	57	63	56	
5	73	60	51	70	58	51	56	48	
6	68	55	45	66	53	45	51	44	
7	63	48	40	60	47	40	46	39	
8	58	45	36	56	44	35	42	34	
9	55	40	33	53	40	33	39	32	
10	51	38	30	50	38	30	36	29	



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS455L835-UNV-DIM-EMLED-FKR-126  
Notes:

**Type:**  
**S12X**  
MID23-74318

# FSS FluxStream LED strip

2', 3', 4' and 8'

## Photometry

### 4' FluxStream LED strip, 4000 nominal delivered lumens

LER - 133

**Catalog No.** FSS440L840-UNV-DIM  
**Test No.** 37259  
**S/MH** 1.3  
**Lamp Type** LED  
**Lumens** 4130  
**Input Watts** 31

Comparative yearly lighting energy cost per 1000 lumens - **\$1.80** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Candlepower

Angle	End	45	Cross	Back-45
0	1272	1272	1272	1272
5	1250	1265	1277	1265
15	1199	1221	1237	1221
25	1098	1130	1157	1130
35	957	1005	1044	1005
45	791	860	910	860
55	606	690	758	690
65	382	481	598	481
75	194	326	416	326
85	36	196	289	196

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	986	23.9
0-40	1614	39.1
0-60	2886	69.9
0-90	3905	94.6
90-180	225	5.4
0-180	4130	100

#### Average Luminance

Zone	End	45'	Cross
45	16754	14171	13847
55	15678	12712	12618
65	13207	10415	11375
75	10615	8873	9550
85	5052	7511	8720

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

pfc =	20	80	70	50
Ceiling				
Wall	70	50	30	50
RCR				
0	118	118	114	114
1	106	101	95	93
2	95	86	80	78
3	86	76	67	66
4	80	67	57	65
5	72	59	51	57
6	68	54	45	53
7	63	48	40	47
8	57	44	35	44
9	54	40	32	40
10	51	38	30	37

### 4' FluxStream LED strip, 5500 nominal delivered lumens

LER - 129

**Catalog No.** FSS455L840-UNV-DIM  
**Test No.** 37262  
**S/MH** 1.3  
**Lamp Type** LED  
**Lumens** 5759  
**Input Watts** 45

Comparative yearly lighting energy cost per 1000 lumens - **\$1.86** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Candlepower

Angle	End	45	Cross	Back-45
0	1788	1788	1788	1788
5	1757	1777	1792	1777
15	1685	1715	1736	1715
25	1544	1585	1623	1585
35	1346	1408	1462	1408
45	1113	1202	1271	1202
55	852	960	1055	960
65	575	712	828	712
75	272	443	610	443
85	50	259	389	259

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	1384	24
0-40	2264	39.3
0-60	4043	70.2
0-90	5478	95.1
90-180	281	4.9
0-180	5759	100

#### Average Luminance

Zone	End	45'	Cross
45	23558	19796	19347
55	22047	17697	17574
65	19887	15425	15749
75	14898	12084	14023
85	7023	9926	11749

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

pfc =	20	80	70	50
Ceiling				
Wall	70	50	30	50
RCR				
0	118	118	115	115
1	106	101	95	93
2	95	86	80	78
3	86	76	68	66
4	80	67	57	66
5	72	59	51	58
6	68	54	45	53
7	63	48	40	47
8	57	44	35	44
9	54	40	32	40
10	51	38	30	37

### 4' FluxStream LED strip, 7000 nominal delivered lumens

LER - 126

**Catalog No.** FSS470L840-UNV-DIM  
**Test No.** 37265  
**S/MH** 1.3  
**Lamp Type** LED  
**Lumens** 7275  
**Input Watts** 58

Comparative yearly lighting energy cost per 1000 lumens - **\$1.90** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

#### Candlepower

Angle	End	45	Cross	Back-45
0	2211	2211	2211	2211
5	2176	2199	2217	2199
15	2088	2124	2148	2124
25	1914	1966	2010	1966
35	1672	1750	1813	1750
45	1379	1502	1580	1502
55	1058	1204	1317	1204
65	714	898	1041	898
75	339	592	776	592
85	63	344	524	344

#### Light Distribution

Degrees	Lumens	% Luminaire
0-30	1714	23.6
0-40	2809	38.6
0-60	5028	69.1
0-90	6879	94.6
90-180	396	5.4
0-180	7275	100

#### Average Luminance

Zone	End	45'	Cross
45	29203	24745	24050
55	27371	22192	21938
65	24688	19451	19793
75	18540	16135	17825
85	8824	13174	15831

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

pfc =	20	80	70	50
Ceiling				
Wall	70	50	30	50
RCR				
0	118	118	114	114
1	106	100	95	93
2	95	86	79	78
3	86	76	67	66
4	79	67	57	65
5	72	59	50	57
6	67	54	44	52
7	61	47	40	46
8	57	44	35	42
9	54	40	32	40
10	51	37	29	37



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
FSS455L835-UNV-DIM-EMLED-FKR-126  
**Notes:**

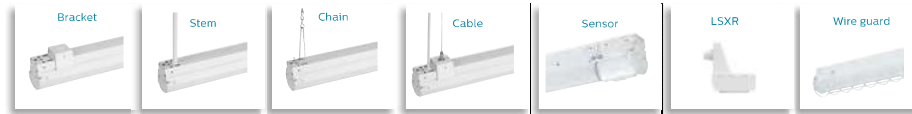
**Type:****S12X**

MID23-74318

## FSS FluxStream LED strip

2', 3', 4' and 8'

### Accessories<sup>19</sup>



Accessory Catalog Code	Description	
FSTH	Sliding hanger bracket (pair)	
SV5F12	12" Stem and canopy kit	White stem and canopy kit, 1/4" trade size (1/2" O.D.) locknuts included. Works with 9/16" k.O. on base of housing.
SV5F18	18" Stem and canopy kit	
SV5F24	24" Stem and canopy kit	
SV5F36	36" Stem and canopy kit	
SV5F48	48" Stem and canopy kit	
FKR-126	Chain hanger set (pair)	Includes two 5' heavy duty link chains with "V" hooks. Attaches to base of housing.
DACHxx	Adjustable cable hanger kit (single)	Works with 1/4" hole on base of housing or FSTH hanger bracket. <b>xx</b> =cable length in inches, enter 48" to 180" lengths in 12" increments
DACHxx-1-SC	Adjustable cable hanger kit with white straight 18/3 cord (single)	
DACHxx-1-CC	Adjustable cable hanger kit with white coiled 18/3 cord (single)	
DACHxx-2-SC	Adjustable cable hanger kit with white straight 18/4 cord (single)	
DACHxx-2-CC	Adjustable cable hanger kit with white coiled 18/4 cord (single)	
DACHxx-1D-SC	Adjustable cable hanger kit with white straight 18/5 cord with dimming leads (single)	
LSXR10	Low bay pir motion sensor (120-277v)	
LSXR10ADC	Low bay pir motion sensor with photocell and hi/lo trim dimming (120-277v)	
FSSWG4	4' Wire guard (order two for 8' models)	
FSSD2L	2' Diffuse replacement lens	
FSSD3L	3' Diffuse replacement lens	
FSSD4L	4' Diffuse replacement lens (order two for 8' models)	
FSSDEK	Decorative plastic end cap (set of two)	

<sup>19</sup> Consult Signify to confirm whether specific accessories are BAA-compliant.



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**Job Name:**DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)**Catalog Number:**

VRSE-355648LED835K028LCUNV

**Type:****S30**

Notes:

MID23-74318

**VRSE-3556**

LED - Extruded Vandal Resistant ADA Surface Mount



Project:	Catalogue #:	Type:
Notes:		

**Product Description**

The VRSE series by Certolux is a specification-grade LED architectural luminaire for high abuse / vandal resistant applications. The housing is an extruded aluminum construction with die-cast end plates. The polycarbonate lens and tamper resistant fasteners allow this unit to be used in high abuse areas. The luminaire can be ceiling or wall mounted and is suitable for wet locations (ceiling mount) and damp locations (wall mount). Ideal for Schools, Community centers, and Stairwells. Operating ambient temperature range as low as -20°C to as high as 40°C on most models.

**Features**

- Unique ADA compliant design
- Extruded aluminum housing
- Standard low voltage dimming (0-10v)

**Featured Options**

- Emergency LED Battery Pack
- Brackets for Pendant Mount
- Natatorium Construction

**Housing**

Heavy gauge marine grade extruded aluminum with die-cast end caps. Includes knockouts for surface conduit and tandem or row mounting.

**Lens & Lens Retention**

Opal UV stabilized 0.156 thick polycarbonate lens. The lens is secured to the housing with four TORX® Head with center pin stainless steel fasteners.

**Finish**

The luminaire is in a powder painted white finish and offers a high reflectivity coating for improved lighting performance and efficiency.

**Electrical**

Long life LED's coupled with high efficiency drivers provide quality illumination. Rated to deliver an L80 performance >50,000 hours. The standard driver has a THD of <10%. Standard low-voltage dimming (0-10v, 1%). All electrical components are CSA or UL approved.

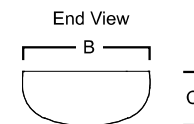
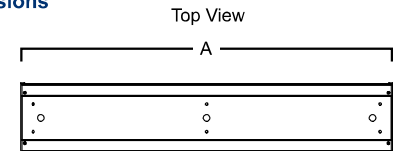
**Warranty**

5 year limited warranty. For complete warranty terms visit:

[http://viscor.com/assets/Viscor\\_LED\\_Warranty.pdf](http://viscor.com/assets/Viscor_LED_Warranty.pdf)

**Approvals**

Approved to CSA and UL standards for use in wet locations.

**Dimensions**

	A	B	C
24	24.57"	9.26"	3.97"
48	49.13"	9.26"	3.97"

Consult installation guide for exact dimensions.

## VRSE-3556

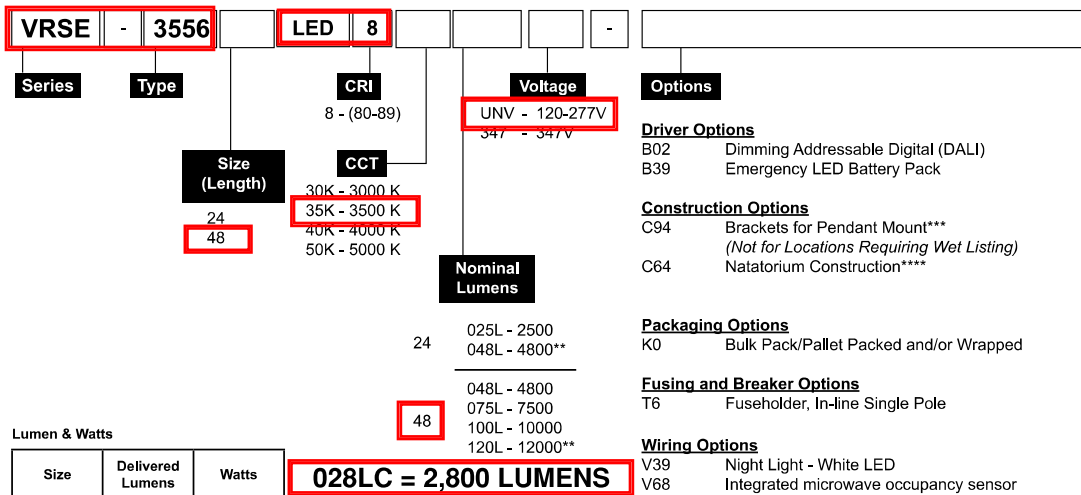
LED - Extruded Vandal Resistant ADA Surface Mount



Project:	Catalogue #:	Type:
Notes:		

### Order Key

VRSE-355648LED840K100LUNV



#### Lumen & Watts

Size	Delivered Lumens	Watts
24	2500	27
	4800	53
48	4800	53
	7500	80
	10000	99
	12000	123

**028LC = 2,800 LUMENS**

\*\*Maximum ambient temperature is 35°C

\*\*\*There are 2 brackets for 24" and 48" units

\*\*\*\* Not compatible with C94 option.

Other options may be available, consult factory.  
 Specifications and data subject to change without notice.

**Job Name:**DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)**Catalog Number:**VRSE-355648LED835K028LCUNV-  
B39

Notes:

**Type:****S30X**

MID23-74318

**VRSE-3556**

LED - Extruded Vandal Resistant ADA Surface Mount



Project:	Catalogue #:	Type:
Notes:		

**Product Description**

The VRSE series by Certolux is a specification-grade LED architectural luminaire for high abuse / vandal resistant applications. The housing is an extruded aluminum construction with die-cast end plates. The polycarbonate lens and tamper resistant fasteners allow this unit to be used in high abuse areas. The luminaire can be ceiling or wall mounted and is suitable for wet locations (ceiling mount) and damp locations (wall mount). Ideal for Schools, Community centers, and Stairwells. Operating ambient temperature range as low as -20°C to as high as 40°C on most models.

**Features**

- Unique ADA compliant design
- Extruded aluminum housing
- Standard low voltage dimming (0-10v)

**Featured Options**

- Emergency LED Battery Pack
- Brackets for Pendant Mount
- Natatorium Construction

**Housing**

Heavy gauge marine grade extruded aluminum with die-cast end caps. Includes knockouts for surface conduit and tandem or row mounting.

**Lens & Lens Retention**

Opal UV stabilized 0.156 thick polycarbonate lens. The lens is secured to the housing with four TORX® Head with center pin stainless steel fasteners.

**Finish**

The luminaire is in a powder painted white finish and offers a high reflectivity coating for improved lighting performance and efficiency.

**Electrical**

Long life LED's coupled with high efficiency drivers provide quality illumination. Rated to deliver an L80 performance >50,000 hours. The standard driver has a THD of <10%. Standard low-voltage dimming (0-10v, 1%). All electrical components are CSA or UL approved.

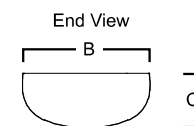
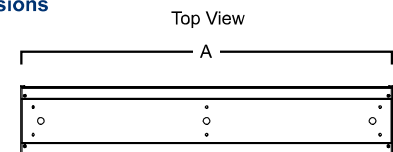
**Warranty**

5 year limited warranty. For complete warranty terms visit:

[http://viscor.com/assets/Viscor\\_LED\\_Warranty.pdf](http://viscor.com/assets/Viscor_LED_Warranty.pdf)

**Approvals**

Approved to CSA and UL standards for use in wet locations.

**Dimensions**

	A	B	C
24	24.57"	9.26"	3.97"
48	49.13"	9.26"	3.97"

Consult installation guide for exact dimensions.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
VRSE-355648LED835K028LCUNV-  
B39  
Notes:

**Type:**  
**S30X**

MID23-74318

**VRSE-3556**

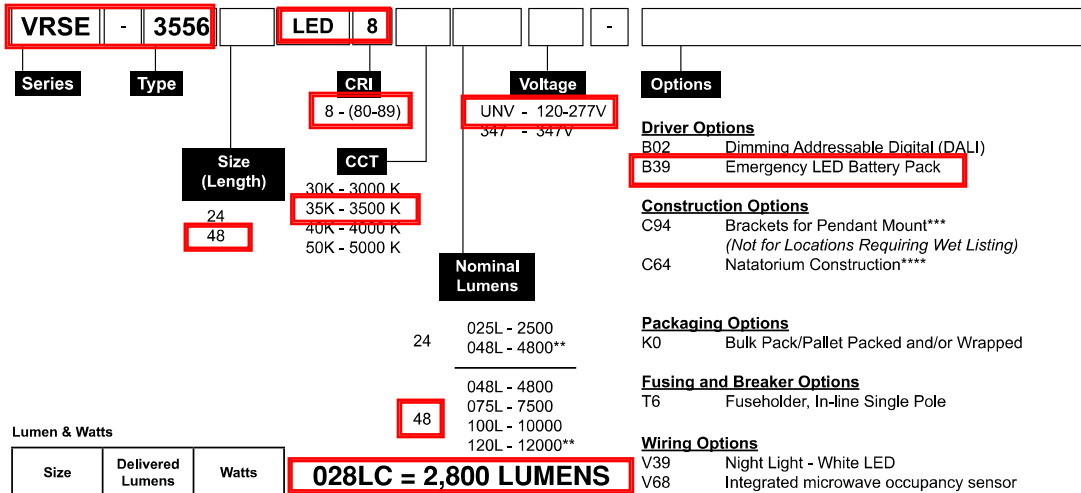
LED - Extruded Vandal Resistant ADA Surface Mount



Project:	Catalogue #:	Type:
Notes:		

**Order Key**

VRSE-355648LED840K100LUNV



**Lumen & Watts**

Size	Delivered Lumens	Watts
24	2500	27
	4800	53
48	4800	53
	7500	80
	10000	99
	12000	123

**028LC = 2,800 LUMENS**

\*\*Maximum ambient temperature is 35°C  
 \*\*\*There are 2 brackets for 24" and 48" units  
 \*\*\*\* Not compatible with C94 option.  
 Other options may be available, consult factory.  
 Specifications and data subject to change without notice.

**Job Name:**DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)**Catalog Number:**

VRSE-355648LED835K048LUNV

Notes:

**Type:****S31**

MID23-74318

**VRSE-3556**

LED - Extruded Vandal Resistant ADA Surface Mount



Project:	Catalogue #:	Type:
Notes:		

**Product Description**

The VRSE series by Certolux is a specification-grade LED architectural luminaire for high abuse / vandal resistant applications. The housing is an extruded aluminum construction with die-cast end plates. The polycarbonate lens and tamper resistant fasteners allow this unit to be used in high abuse areas. The luminaire can be ceiling or wall mounted and is suitable for wet locations (ceiling mount) and damp locations (wall mount). Ideal for Schools, Community centers, and Stairwells. Operating ambient temperature range as low as -20°C to as high as 40°C on most models.

**Features**

- Unique ADA compliant design
- Extruded aluminum housing
- Standard low voltage dimming (0-10v)

**Featured Options**

- Emergency LED Battery Pack
- Brackets for Pendant Mount
- Natatorium Construction

**Housing**

Heavy gauge marine grade extruded aluminum with die-cast end caps. Includes knockouts for surface conduit and tandem or row mounting.

**Lens & Lens Retention**

Opal UV stabilized 0.156 thick polycarbonate lens. The lens is secured to the housing with four TORX® Head with center pin stainless steel fasteners.

**Finish**

The luminaire is in a powder painted white finish and offers a high reflectivity coating for improved lighting performance and efficiency.

**Electrical**

Long life LED's coupled with high efficiency drivers provide quality illumination. Rated to deliver an L80 performance >50,000 hours. The standard driver has a THD of <10%. Standard low-voltage dimming (0-10v, 1%). All electrical components are CSA or UL approved.

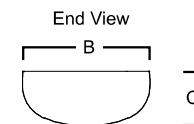
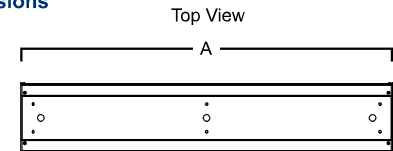
**Warranty**

5 year limited warranty. For complete warranty terms visit:

[http://viscor.com/assets/Viscor\\_LED\\_Warranty.pdf](http://viscor.com/assets/Viscor_LED_Warranty.pdf)

**Approvals**

Approved to CSA and UL standards for use in wet locations.

**Dimensions**

	A	B	C
24	24.57"	9.26"	3.97"
48	49.13"	9.26"	3.97"

Consult installation guide for exact dimensions.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
VRSE-355648LED835K048LUNV

**Type:**  
**S31**

Notes:

MID23-74318

**VRSE-3556**

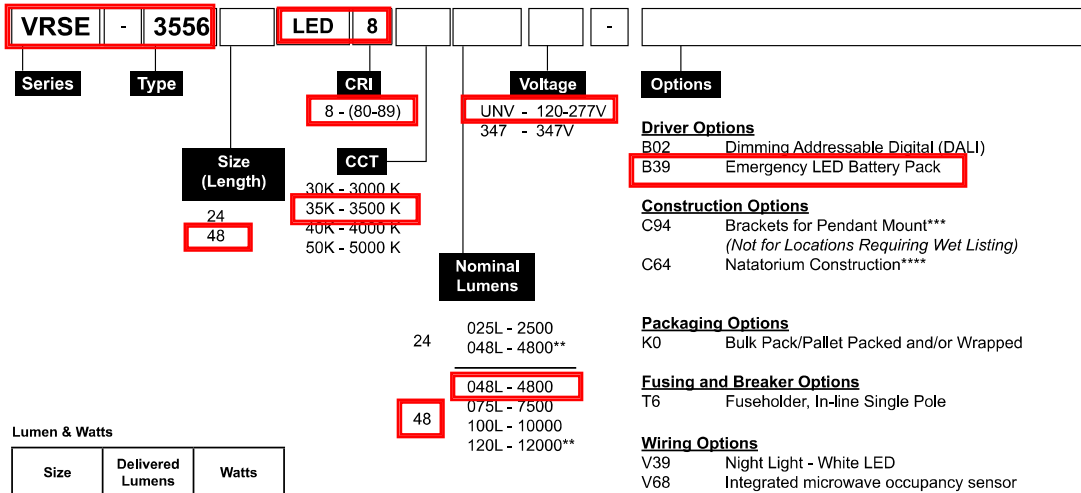
LED - Extruded Vandal Resistant ADA Surface Mount



Project:	Catalogue #:	Type:
Notes:		

**Order Key**

VRSE-355648LED840K100LUNV



**Lumen & Watts**

Size	Delivered Lumens	Watts
24	2500	27
	4800	53
48	4800	53
	7500	80
	10000	99
	12000	123

\*\*Maximum ambient temperature is 35°C

\*\*\*There are 2 brackets for 24" and 48" units

\*\*\*\* Not compatible with C94 option.

Other options may be available, consult factory. Specifications and data subject to change without notice.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
VRSE-355648LED835K090LCUNV

Notes: 1,000 ?

**Type:**  
**S33**

MID23-74318

**VRSE-3556**

LED - Extruded Vandal Resistant ADA Surface Mount



Project:	Catalogue #:	Type:
Notes:		

**Product Description**

The VRSE series by Certolux is a specification-grade LED architectural luminaire for high abuse / vandal resistant applications. The housing is an extruded aluminum construction with die-cast end plates. The polycarbonate lens and tamper resistant fasteners allow this unit to be used in high abuse areas. The luminaire can be ceiling or wall mounted and is suitable for wet locations (ceiling mount) and damp locations (wall mount). Ideal for Schools, Community centers, and Stairwells. Operating ambient temperature range as low as -20°C to as high as 40°C on most models.

**Features**

- Unique ADA compliant design
- Extruded aluminum housing
- Standard low voltage dimming (0-10v)

**Featured Options**

- Emergency LED Battery Pack
- Brackets for Pendant Mount
- Natatorium Construction

**Housing**

Heavy gauge marine grade extruded aluminum with die-cast end caps. Includes knockouts for surface conduit and tandem or row mounting.

**Lens & Lens Retention**

Opal UV stabilized 0.156 thick polycarbonate lens. The lens is secured to the housing with four TORX® Head with center pin stainless steel fasteners.

**Finish**

The luminaire is in a powder painted white finish and offers a high reflectivity coating for improved lighting performance and efficiency.

**Electrical**

Long life LED's coupled with high efficiency drivers provide quality illumination. Rated to deliver an L80 performance >50,000 hours. The standard driver has a THD of <10%. Standard low-voltage dimming (0-10v, 1%). All electrical components are CSA or UL approved.

**Warranty**

5 year limited warranty. For complete warranty terms visit:  
[http://viscor.com/assets/Viscor\\_LED\\_Warranty.pdf](http://viscor.com/assets/Viscor_LED_Warranty.pdf)

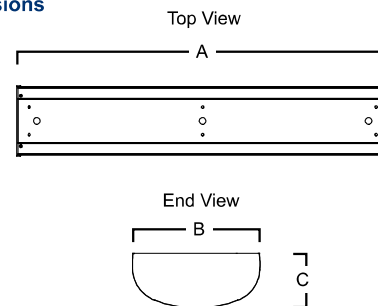
**Approvals**



Approved to CSA and UL standards for use in wet locations.



**Dimensions**



	A	B	C
24	24.57"	9.26"	3.97"
48	49.13"	9.26"	3.97"

Consult installation guide for exact dimensions.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
VRSE-355648LED835K090LCUNV

Notes: 1,000 ?

**Type:**  
**S33**

MID23-74318

**VRSE-3556**

LED - Extruded Vandal Resistant ADA Surface Mount



Project:	Catalogue #:	Type:
Notes:		

**Order Key**

VRSE-355648LED840K100LUNV



<b>Series</b>	<b>Type</b>	<b>CRI</b>	<b>Voltage</b>	<b>Options</b>
VRSE	3556	8 - (80-89)	UNV - 120-277V 347 - 347V	<b>Driver Options</b> B02 Dimming Addressable Digital (DALI) B39 Emergency LED Battery Pack
	<b>Size (Length)</b>	<b>CCT</b>	<b>Nominal Lumens</b>	<b>Construction Options</b>
	24 48	30K - 3000 K 35K - 3500 K 40K - 4000 K 50K - 5000 K	24 025L - 2500 048L - 4800** 48 048L - 4800 075L - 7500 100L - 10000 120L - 12000**	C94 Brackets for Pendant Mount*** (Not for Locations Requiring Wet Listing) C64 Natatorium Construction****
				<b>Packaging Options</b> K0 Bulk Pack/Pallet Packed and/or Wrapped
				<b>Fusing and Breaker Options</b> T6 Fuseholder, In-line Single Pole
				<b>Wiring Options</b> V39 Night Light - White LED V68 Integrated microwave occupancy sensor

**Lumen & Watts**

Size	Delivered Lumens	Watts
24	2500	27
	4800	53
48	4800	53
	7500	80
	10000	99
	12000	123

**90LC = 9,000 LUMENS**

\*\*Maximum ambient temperature is 35°C  
\*\*\*There are 2 brackets for 24" and 48" units  
\*\*\*\* Not compatible with C94 option.  
Other options may be available, consult factory.  
Specifications and data subject to change without notice.



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

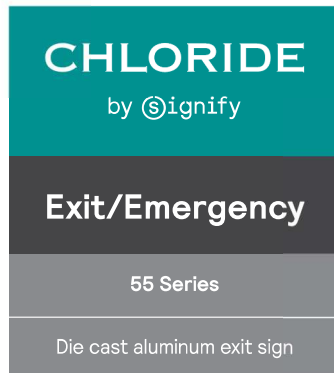
**Catalog Number:**  
55L3WR

Notes:

**Type:**

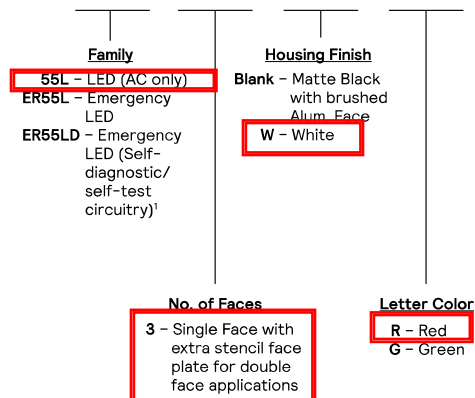
**X1**

MID23-74318



Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

### Example: ER55L3R



### Accessories

**PVS2** - Polycarbonate Vandal Shield  
**WG4** - Wire Guard

### Footnotes

<sup>1</sup> Not available in white housing with green letters.

### codes and standards

- UL listed to Standard 924
- NFPA 101 (Life Safety Code)
- NFPA 70 (National Electric Code) and OSHA Standards California Energy Commission
- UL listed for damp location

### construction and finish

- Available in matte black housing with brushed aluminum face or white with a powder coat paint finish.
- All signs provided with shallow canopy for ceiling or end installations.
- Extra stencil faceplate is provided for converting single face signs to double face signs in the field with ease. All units have concealed directional chevron indicators (knockouts).

### installation

- Universal mounting (wall, side, or ceiling).
- Canopy and mounting hardware provided.
- Universal knockouts on backplate allow for wall mounting directly to J-Box.

### electronics

- AC Only:  
Red = 2.48 Watts, Green = 2.22 Watts  
Emergency:  
Red = 3.08 Watts, Green = 3.08 Watts
- Surge protection is standard on all models.
- Charging System is complete with low voltage disconnect, AC lockout, and brownout protection.
- 120/277 VAC Selectable Input.

### battery

- Maintenance free sealed nickel cadmium has estimated service life of 8 to 10 years.
- Operating temperature range of 10°C to 40°C (50°F to 104°F).
- Provides 90 minutes of emergency illumination.

### warranty

- Five full years on electronics and unit.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
55L3WR

Notes:

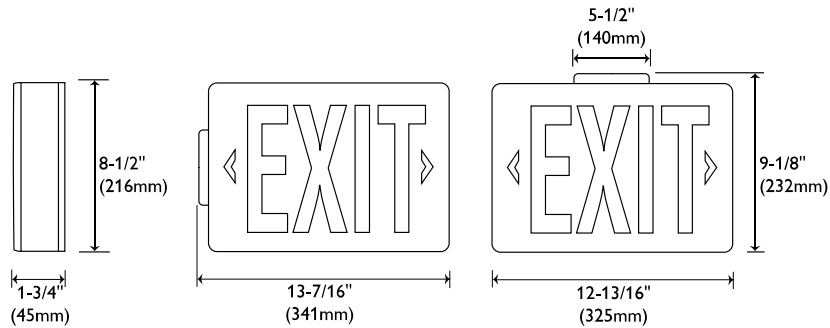
**Type:**

**X1**

MID23-74318

## 55 Die cast aluminum LED exit sign

### dimensions



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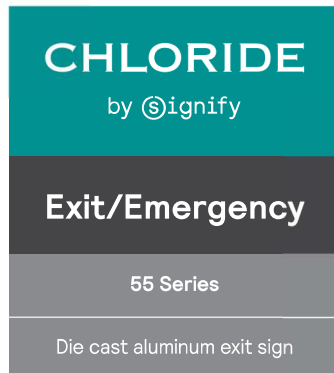


**Job Name:**DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)**Catalog Number:**  
55L3WR

Notes:

**Type:****X2**

MID23-74318



Project: \_\_\_\_\_

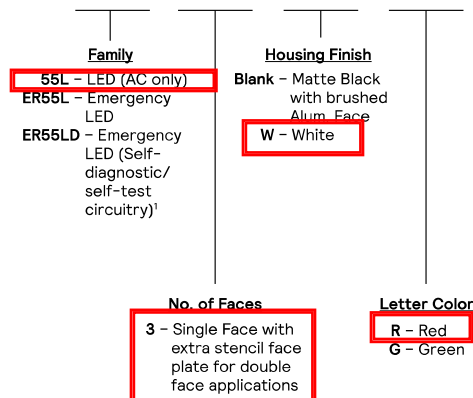
Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

**Example: ER55L3R****Accessories**

**PVS2** - Polycarbonate Vandal Shield  
**WG4** - Wire Guard

**Footnotes**

<sup>1</sup> Not available in white housing with green letters.

**codes and standards**

- UL listed to Standard 924
- NFPA 101 (Life Safety Code)
- NFPA 70 (National Electric Code) and OSHA Standards California Energy Commission
- UL listed for damp location

**construction and finish**

- Available in matte black housing with brushed aluminum face or white with a powder coat paint finish.
- All signs provided with shallow canopy for ceiling or end installations.
- Extra stencil faceplate is provided for converting single face signs to double face signs in the field with ease. All units have concealed directional chevron indicators (knockouts).

**installation**

- Universal mounting (wall, side, or ceiling).
- Canopy and mounting hardware provided.
- Universal knockouts on backplate allow for wall mounting directly to J-Box.

**electronics**

- AC Only:  
Red = 2.48 Watts, Green = 2.22 Watts  
Emergency:  
Red = 3.08 Watts, Green = 3.08 Watts
- Surge protection is standard on all models.
- Charging System is complete with low voltage disconnect, AC lockout, and brownout protection.
- 120/277 VAC Selectable Input.

**battery**

- Maintenance free sealed nickel cadmium has estimated service life of 8 to 10 years.
- Operating temperature range of 10°C to 40°C (50°F to 104°F).
- Provides 90 minutes of emergency illumination.

**warranty**

- Five full years on electronics and unit.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
55L3WR

Notes:

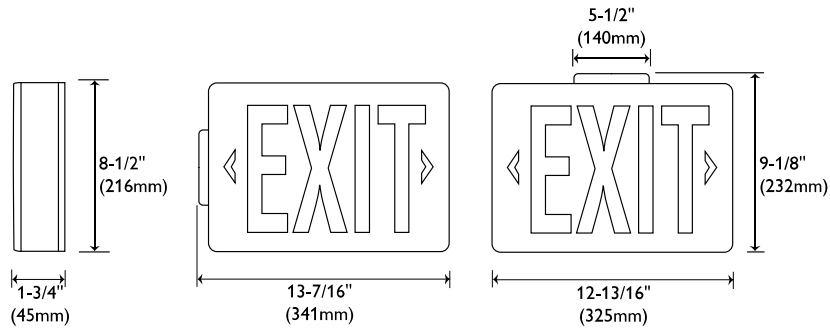
**Type:**

**X2**

MID23-74318

## 55 Die cast aluminum LED exit sign

### dimensions



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Telephone 800-668-9008

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**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

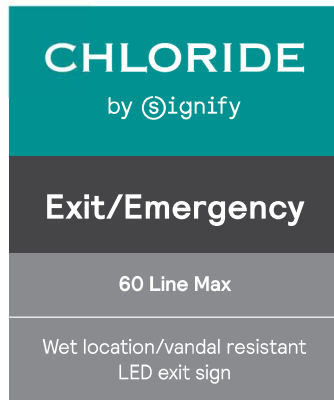
**Catalog Number:**  
60MLA1RW

Notes:

Type:

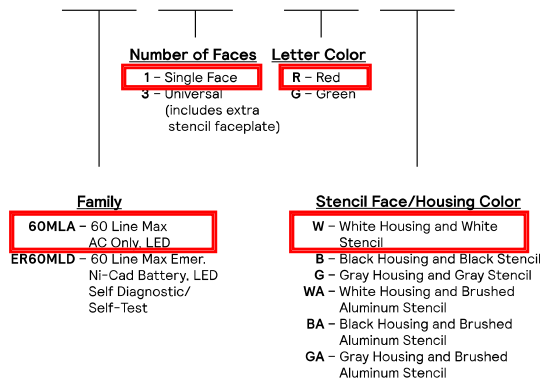
**X3**

MID23-74318



Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

### Example: ER60MLD3RW



#### Options

PM - Pendant Mount<sup>1</sup>  
TA - Audible Diagnostics (ER Exits Only)  
BF - Buzzer/Flasher (ER Exits Only)  
BZ - DC Buzzer  
EX - Special Input Transformer (consult factory)<sup>2</sup>  
F - Emergency Flasher (ER Exits Only)  
FI - 24VDC Fire Alarm Interface  
2C12 - 2 Circuit - 120 VAC (AC Only Exits)  
2C27 - 2 Circuit - 277 VAC (AC Only Exits)  
SW - Special Wording  
DC - 12-48VDC external backup (60MLA only)

#### Accessories<sup>3</sup>

T15TPTOOL - Tamperproof Tool  
60PA12W - Pendant Assembly 12" Stem, White  
60PA12B - Pendant Assembly 12" Stem, Black  
WG4 - Wire Guard  
SRT - Self-Test Infra-Red Remote Tester

#### Footnotes:

<sup>1</sup> Requires pendant assembly, order separately.  
<sup>2</sup> Some options may impact UL listing. Consult factory for specifics.  
<sup>3</sup> Consult Signify to confirm whether specific accessories are BAA-compliant.

#### codes and standards

- UL listed to standard 924.
- UL listed damp and wet location listed -40°F (-40°C) to 113°F (45°C)
- NFPA 101 (Life Safety Code)
- NFPA 70 (National Electric Code)
- BOCA, OSHA AND IBC illumination standards
- NEMA Premium certified
- Meets ADA specifications for wall mounted lighting fixtures
- IEC 61951-1 Life Testing (batteries)
- Certified to the California Energy Commission in accordance with CA law

#### construction

- Housing constructed of a combination of heavy-duty die cast aluminum and injection molded polycarbonate.
- A groove molded into each cover accepts a full perimeter silicon rubber gasket.
- Housing is powder coated in white, black, or gray.
- Single face units back cover is molded in color to match housing and front cover is clear.
- Universal models consist of two faces, backplate and canopy.
- The stencil is provided with field selectable chevrons and is contained inside the fully gasketed housing.
- All exposed hardware is both vandal resistant and anti-corrosion coated.
- Diecast aluminum canopy is powder coated to match housing.
- Dual function indicator light is located on the face of the unit to signify that AC utility is present, as well as indicating the charge status.

#### installation

- Exit can be installed via top and end canopy mount and back wall mount.
- All mounting configurations employ neoprene gaskets between exit housing, canopy and mounting surface.
- The exit is designed to mount to standard 3-1/2" and 4" octagonal junctions boxes.
- Provisions in the cast frame allow for up to two 1/2" flex or rigid conduit.

#### electronics

- 120/277 VAC dual voltage input.
- Surge protection is standard on all models.
- Charging system is complete with low voltage disconnect, AC lockout, brownout protection.
- The brownout protection circuitry will automatically switch the unit into emergency mode if the utility voltage drops below 85% or nominal.
- The electronics diagnostic/charging platform with self-testing mode automatically runs a one minute self-test every 30 days and a 30 minute on the sixth and twelfth month. A one minute or 90 minute test may be initiated via the push to test switch on the unit or by activating the appropriate test command on the option IR test device.
- Fault condition status of self-test, number of RED flashes:
  - 1 X - Battery Fault
  - 2 X - Lamp Failure
  - 3 X - Charger Fault
  - 4 X - Transfer Fault
- Both RED and GREEN LED'S fast toggle - AC line over voltage.
- Both RED and GREEN LED'S slow toggle - AC line under voltage.
- Power Consumption  
AC Only:  
Red = 3.8 Watts, Green = 4.0 Watts  
Emergency Only:  
Red = 4.8 Watts, Green = 4.7 Watts

#### lamps

- Illumination of the exit stencil face is accomplished with long lasting, high output LED's.
- Hot spots and striations are eliminated by the internal light chamber, which is specially designed around the high performance LED array.





**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
60MLA1RW

Notes:

**Type:**

**X3**

MID23-74318

## 60ML Max wet location/vandal resistant LED exit sign

- Average illumination levels are in excess of 25fl (79 cd/m2) .

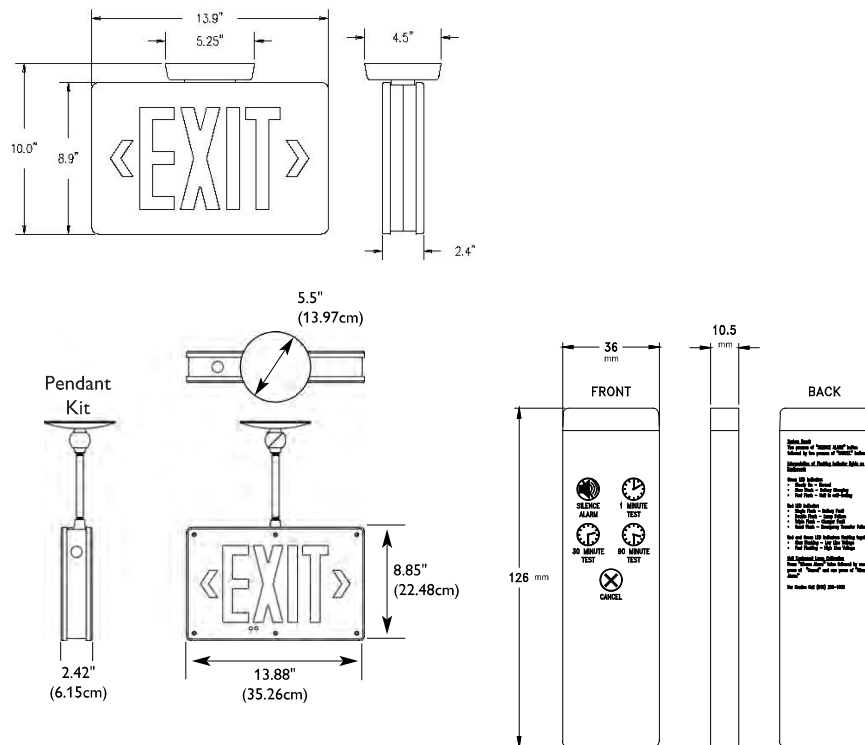
### battery

- Maintenance free , sealed nickel cadmium battery .
- Operating temperature range of -40°F (-40°C) to 113°F (45°C) .
- Expected service life of 10 years .
- Standard sustained emergency operation is for 120 minutes with the LED illumination source providing full light output .

### warranty

- Five year warranty on exit .

### dimensions



### Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit [www.signify.com/baa](http://www.signify.com/baa) to view a current list of BAA-compliant products to confirm this product's current compliance.



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CE-11800 09/21 page 2 of 2

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Telephone 800-668-9008

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[www.chloride-lighting.com](http://www.chloride-lighting.com)



**Job Name:**  
DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
60MLA3RW

Notes:

Type:

**X4**

MID23-74318

**CHLORIDE**  
by Signify

**Exit/Emergency**

60 Line Max

Wet location/vandal resistant  
LED exit sign



Project: \_\_\_\_\_

Location: \_\_\_\_\_

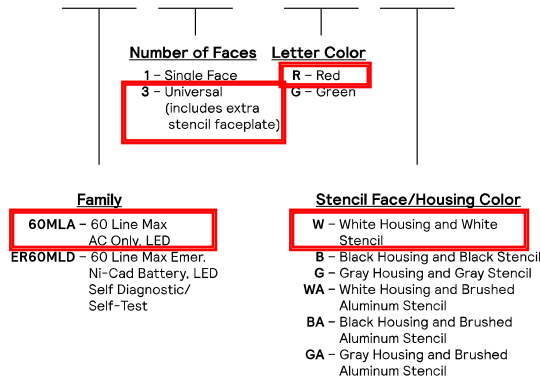
Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

### Example: ER60MLD3RW



#### Options

**PM** - Pendant Mount<sup>1</sup>  
**TA** - Audible Diagnostics (ER Exits Only)  
**BF** - Buzzer/Flasher (ER Exits Only)  
**BZ** - DC Buzzer  
**EX** - Special Input Transformer (consult factory)<sup>2</sup>  
**F** - Emergency Flasher (ER Exits Only)  
**FI** - 24VDC Fire Alarm Interface  
**2C12** - 2 Circuit - 120 VAC (AC Only Exits)  
**2C27** - 2 Circuit - 277 VAC (AC Only Exits)  
**SW** - Special Wording  
**DC** - 12-48VDC external backup (60MLA only)

#### Accessories<sup>3</sup>

**T15TPTOOL** - Tamperproof Tool  
**60PA12W** - Pendant Assembly 12" Stem, White  
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DUTCHESS STADIUM  
Distributor: LS FIELDTECH, LLC.  
(ROCHESTER)

**Catalog Number:**  
60MLA3RW

Notes:

**Type:**

**X4**

MID23-74318

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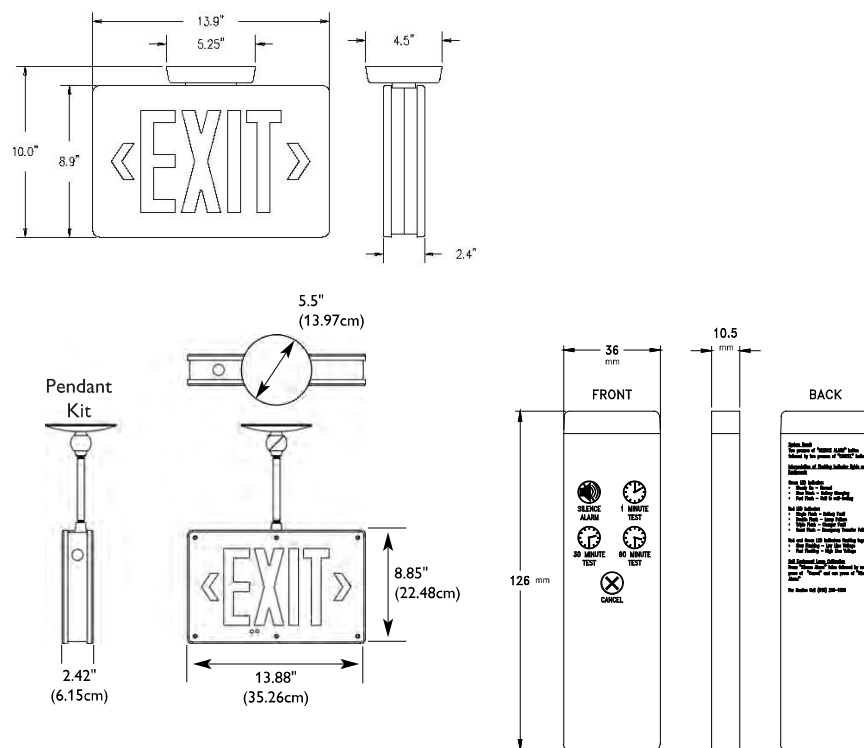
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