

March 28, 2018

## **Addendum No. 2:**

### **Project: City of Gallup – Hasler Valley Road Solid Waste Facility**

#### **To All Bidders:**

The following items shall be incorporated into the above referenced project. These items shall modify or clarify the published project construction documents as stated herein. The Contractor shall acknowledge receipt of this addendum on the Proposal Form.

#### **Owner:**

City of Gallup  
Purchasing Division  
Gallup, NM 87305-1270  
Phone (505) 863-1232  
Ms. Frances Rodriguez, Purchasing Director  
frodriguez@GallupNM.gov

#### **Architect:**

Huitt-Zollars Inc.  
6501 Americas Parkway NE Suite 830  
Albuquerque, NM 87110  
Phone (505) 883-8114  
Fax (505)-883-5022  
Mr. Jose Zelaya, AIA, NCARB  
jzelaya@huitt-zollars.com

### **CORRECTIONS**

Addendum No. 1 dated 3/22/18  
Change Owner to:

*City of Gallup  
Purchasing Division  
Gallup, NM 87305-1270  
Phone (505) 863-1232  
Ms. Frances Rodriguez, Purchasing Director  
frodriguez@GallupNM.gov*

### **Questions**

1. *Specification section 105113 Metal Lockers calls out a standard single point latch, all welded metal locker. However, project drawings show a z style locker. Metal lockers are not produced in a Z locker by any of the manufacturers. Z lockers are only produced by wood, plastic, and phenolic locker manufacturers. Please clarify the type of locker that is required on tine project.*
  - a. Metal Lockers per Specifications.
2. *Same section, please clarify the type of perforated vents required. Standard Louvers, diamond perforations, Secure Air Flow Perforations.*
  - a. Standard Louvers
3. *Same section, Article 2.4 G is calling for center dividers which is not usually used. Please clarify if center dividers are required in these lockers.*

- a. No center dividers are required.
4. *Section 107500 Flagpoles, Article 2.3 is calling for two different types of finial eagle. Please clarify which is required.*
  - a. Provide “Cast aluminum with gold anodic finish”.
5. *Can outside utility specifications be included/added to the bid package?*
  - a. Refer to Addendum #1 – “All construction shall be performed in accordance with the NM Standard Specification for Public Works Construction and Details, as prepared by the NM Chapter, APWA and addendum, unless modified herein”.
6. *Plan Sheet C301 calls for 2” copper waterline with MJ fittings and MJ Valves. MJ fittings are not available in 2”, furthermore MJ fittings would not be used on copper pipe. Will brass compression fittings be acceptable instead?*
  - a. Refer to Addendum #1 – “All construction shall be performed in accordance with the NM Standard Specification for Public Works Construction and Details, as prepared by the NM Chapter, APWA and addendum, unless modified herein”.
7. *Plan sheet C302 calls for 4” C900 force main. Will this pipe need to be green in color, striped, or somehow marked for “force main indication”?*
  - a. No special identification is required.
8. *Will the MJ fittings required on the force main need to be epoxy lined for sewer water application?*
  - a. Refer to Addendum #1 – “All construction shall be performed in accordance with the NM Standard Specification for Public Works Construction and Details, as prepared by the NM Chapter, APWA and addendum, unless modified herein”.
9. *Please provide a specification, model name, part number, or manufacture, for the prepackaged lift station detailed on sheet C307.*
  - a. Refer to Addendum No.1 for specification.
10. *In reviewing the specs and drawings for this project, I do not see any spec section for the Sanitary Sewer Pumps. I only see DWG c-307.*
  - a. Refer to Addendum No.1 for specification.
11. *Can you please provide duty points (GPM & TDH) requirements for the submersible sewage pumps? I also need information on electrical requirements for the pumps.*
  - a. Refer to Addendum No.1 for specification and SKE – X-ES101-1.
12. *I also do not see any call out and spec section for the control panel. I’m assuming a duplex, alternating control panel; can you please confirm and add any other details that need to be met?*
  - a. See Attachment “X-ES101-1”

**APPROVED SUBSTITUTIONS**

1. **Section 10 5113 – Metal Lockers:** Art Metal Products Metal Lockers, 401 Jim Moran Blvd, Deerfield Beach, FL 33442 – Bulldog Corridor AMP 1005.

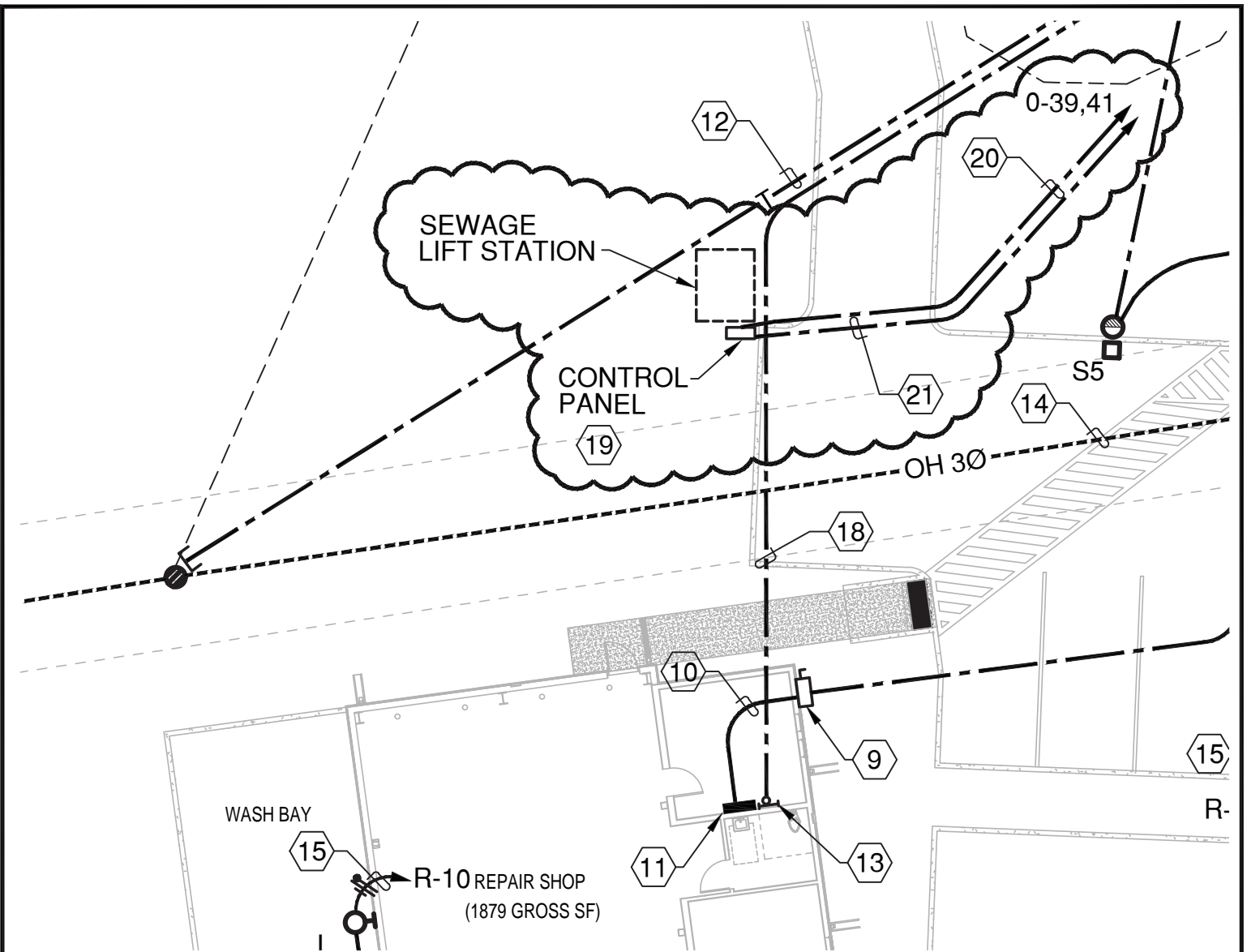
2. Section 26 Lighting Package - RKL Sales Corp., 4417 Corrales Rd. Ste. A, Corrales, NM 87048, 505-837-2262 (See attachments)

**ATTACHMENTS**

1. RKL Sales Corp. - Lighting Package
2. SKE – X-ES101-1

**END OF ADDENDUM NO. 2**

**ATTACHMENTS**



# ⬡ SHEET KEYNOTES

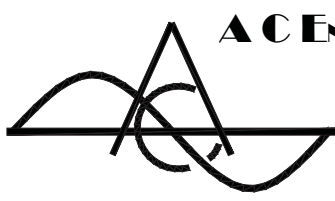
- 19. SEWAGE LIFT STATION CONTROL PANEL, FURNISHED BY OTHERS, INSTALLED AND CONNECTED BY THIS CONTRACTOR. INSTALL ON UNISTRUT SUPPORT RACK ADJACENT TO THE LIFT STATION. REFER TO SPECIFICATIONS SECTION 33 32 16 AND REFER TO SHEET C-307 FOR LOCATION.
- 20. EXTEND 3#8 THHN/THWN (CU) + 1#10 THHN/THWN (CU) TO NEW 30A/2P CIRCUIT BREAKER IN PANEL "O" IN THE OFFICE BUILDING, MINIMUM 36' BELOW FINISH GRADE.
- 21. EXTEND 1"C WITH TWO (2) 4PR CATEGORY 6 CABLES FROM THE LIFT STATION CONTROL PANEL TO THE IT ROOM IN THE OFFICE BUILDING. TERMINATE IN J-BOX FOR FUTURE CONNECTION AND EXTENSION FOR THE LIFT STATION ALARMS.

*Frederick J. Telck*



03/28/18

REFERENCE SHEET: ES-101



**AC ENGINEERING ENTERPRISES, LLC**  
 120 Aliso Drive, SE  
 Albuquerque, New Mexico 87108  
 Phone 505.842.5787  
 Facsimile 505.842.5797

Project: **GALLUP SOLID WASTE FACILITY**  
**17-151**

Drawn By: ACE  
 Designed By: F.J.T  
 Date: 03.28.18

Sheet:  
**X-ES101-1**



RKL SALES CORP  
4417 CORRALES RD  
SUITE A  
CORRALES, NM 87048-8615  
Phone: 505-837-2262  
Fax: 505-837-2231  
Contact: Martinez, Judy

## Hasler Valley Road Solid Waste

18-33657-0

3/22/2018

<b>Submission Type</b>		
<input checked="" type="checkbox"/> Prior Approval	<input type="checkbox"/> Resubmittal for Approval	<input type="checkbox"/> Approval
<input type="checkbox"/> Corrections	<input type="checkbox"/> Your Use	<input type="checkbox"/> Other
		<input type="text"/>

# HASLER VALLEY ROAD SOLID WASTE

## PRIOR APPROVAL SUBSTITUTION REQUEST FORM

The undersigned, qualified bidder, subcontractor, manufacturer, or supplier requests that the following product be accepted for use in the Project

PRODUCT: \_\_\_\_\_  
MODEL NO.: \_\_\_\_\_  
MANUFACTURER: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

SEE ATTACHED LIST

The above product would be used in lieu of

PRODUCT: \_\_\_\_\_

specified in

SECTION: \_\_\_\_\_

PARAGRAPH: \_\_\_\_\_

Attached are the following circled items:

1. Product description including specifications, performance and test data, and applicable reference standards.
2. Drawings.
3. Photographs.
4. Samples.
5. Tabulated comparison with specified product.
6. For items requiring color selections, full range of manufacturer's color samples.
7. Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The undersigned certifies that the following statements are correct. Explanations for all items which are not true are attached.

1. Proposed substitution has been thoroughly investigated and function, appearance, and quality meet or exceed that of specified product.  TRUE  FALSE
2. Same warranty will be provided for substitution as for specified product.  TRUE  FALSE
3. No aspect of Project will require re-design.  TRUE  FALSE
4. Use of substitution will not adversely affect: HASLER VALLEY ROAD SOLID WASTE

- a. Dimensions shown on Drawings.  TRUE  FALSE
- b. Construction schedule and date of completion.  TRUE  FALSE
- c. Work of other trades.  TRUE  FALSE
- 5. Maintenance service and replacement parts for proposed substitution will be readily available in the Albuquerque/local area.  TRUE  FALSE
- 6. Proposed substitution does not contain asbestos in any form.  TRUE  FALSE

Submitted By:

COMPANY: RKL SALES CORPORATION

ADDRESS: 4417 CORRALES RD. SUITE A, CORRALES, NM 87048

TELEPHONE NUMBER: 505-837-2262

NAME OF PERSON SUBMITTING REQUEST: ALEX TACKMAN

TITLE: PRINCIPAL

DATE: 04/03/2018



March 22, 2018

**JOB:** HASLER VALLEY ROAD SOLID WASTE

**ARCHITECT:** HUITT-ZOLLARS

**ENGINEER:** AC ENGINEERING

**BID DATE:** 4/3/2018

**FIXTURE SCHEDULE**

SPECIFIED			PROPOSED TO FURNISH	
Type	Manufacturer	Catalog #	Manufacturer	Catalog #
A	DAYBRITE	2-FG-G-38L-835-4-D-UNV-DIM	LITHONIA	2BLT4-40L-ADP-EZ1-LP835
A1	DAYBRITE	1-FG-G-38L-835-4-D-UNV-DIM-FMA14	LITHONIA	BLT4-40L-ADP-EZ1-LP835-DGA14
B	LIGHTOLIER	P6R-D-10-N-Z10-U-VB/P6R-D-8-35-VB/P6R-D-CC	LITHONIA	LDN6-35-10-L06-AR-LSS-MVOLT-EZ10
C	LIGHTOLIER	S5R-8-35K-7-Z10U	JUNO	JSF-5IN07LM-35K-90CRI-MVOLT-ZT-WH
D	HEWILLIAMS	96-8-L130/840-HIAFR	LITHONIA	FEM-L96-1500LM-IMAFL-WD-MVOLT-GZ10-40K-80CRI
F	AFX	ALV4905400L30SND2	BROWNLEE	5178-48-BN-H32LED-30K
G	NORBACHI	NHS.05-HEX-42-B-NW-MT	AZZ	CHL-07-L-C-4-U-HL
H	DAYBRITE	FSI-4-40L-835-UNV-DIM-X	LITHONIA	CLX-L48-4000LM-SEF-WDL
L/LE	GARDCO	121-16L-530-NW-G3-3-(EBPC)-UNV-DD-FBA	LITHONIA	KAXW-LED-P1-40K-R4-MVOLT-XX
S1	HADCO	SL43-XX-C-F-CR-N-N	HYDREL	M9710C-B-LED-P1-30K-MVOLT-MFL-FLC-12S-RG-LDIM-CBA
S4	GARDCO	ECF-5-32L	LITHONIA	DSX1-LED-P2-40K-T5W-MVOLT-XX
S5	HAPCO	SSS-20-11-4-4-FBA	MAKERSALES	SSS-20-4C-XX-FBC-CBA
EMWP	MULE	MAKO-3-X-SD	JUNO	N5LBZSD
X	MULE	MX-B-X-U-SD	LITHONIA	LQM-S-W-3-X-120/277-ELN-SD
EX	MULE	MRDCC-X-U-W	LITHONIA	ECR-LD-M6
EM	MULE	SQ-LED-X-SD	LITHONIA	ELM2-LED-SD

4417 CORRALES RD. SUITE A, CORRALES, NM 87048

PHONE: 505-837-2262

FAX: 505-837-2231



## FEATURES & SPECIFICATIONS

**INTENDED USE** — The BLT Best-in-Value Low Profile LED luminaire features a popular center basket design that offers a clean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance compared to traditional sources. An extensive selection of configurations and options make the BLT the perfect choice for many lighting applications including schools, offices and other commercial spaces, retail, hospitals and healthcare facilities. The low profile BLT design (2-3/8") also makes it an excellent choice for renovation projects.

**CONSTRUCTION** — BLT enclosure components are die-formed for dimensional consistency and painted after fabrication with a polyester powder paint for improved performance and protection.

The reflector is finished with a high reflective matte white powder paint for improved aesthetics and increased light diffusion.

End plates contain easy-to-position integral T-bar clips for securely attaching the luminaire to the T-grid. For additional T-grid security, optional screw on T-bar clips are available.

Diffusers are extruded from impact modified acrylic for increased durability.

LED boards and drivers are accessible from the plenum.

**OPTICS** — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces — rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Four diffuser choices available - curved and square designs with linear prisms or a smooth frosted finish.

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000).

**Non-Configurable BLT:** Generic 0-10 volt dimming driver. Dims to 10%

**Configurable BLT:** available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. The High Efficiency versions deliver >130 LPW and can be specified via the Lumen Package designations in the Ordering Information below.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight™ controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Connection to nLight is simple. It can be accomplished with integrated nLight AIR wireless or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission, while nLight AIR is commissioned easily through an intuitive mobile app.

Lumen Management: Unique lumen management system (option N80) provides on board intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Driver disconnect provided where required to comply with US and Canadian codes.

**SENSOR** — **Integrated sensor (individual control):** Sensor Switch MSD7ADCX ((Passive infrared (PIR) or MSDPDT7ADCX ((PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 4 for more details on the integrated sensor.

**Integrated Sensor (nLight Wired Networking):** This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 4 for the nLight sensor options.

**Integrated Smart Sensor (nLight Air Wireless Platform):** The rES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is both a digital PIR occupancy sensor/automatic dimming photocell. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

**INSTALLATION** — The BLT's low profile design of only 2-3/8" provides increased installation flexibility especially in restrictive plenum applications. The BLT fits into standard 15/16" and narrow 9/16" T-grid ceiling systems.

Suitable for damp location.

For recessed mounting in hard ceiling applications, Drywall Grid Adapters (DGA) are available as an accessory. See Accessories section.

**LISTINGS** — CSA Certified to meet U.S. and Canadian standards. IC rated.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**NOTE:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

### BLT Series LED

# 2BLT

2' x 4'  
LED



eldoLED



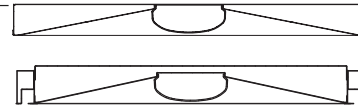
#### Specifications

Length: 47-3/4 (121.2)

Width: 23-3/4 (60.3)

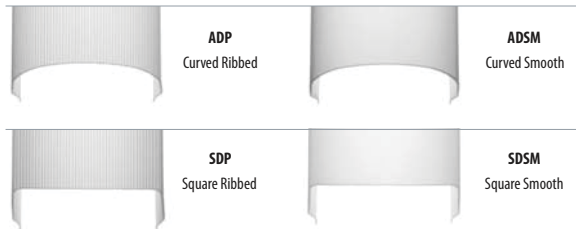
Depth: 2-3/8 (6.0)

Depth with Air supply/return: 2-3/4 (6.9)



All dimensions are inches (centimeters) unless otherwise specified.

### Multiple Diffuser Options



### A+ Capable Luminaire


This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a **shaded background**\*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **shaded background**\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

## 2BLT Volumetric Recessed Lighting 2'x4'

 A+ Capable options indicated by this color background.

### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

**Example:** 2BLT4 40L ADP EZ1 LP840

2BLT4		Air function		Lumens <sup>2</sup>		Diffuser		Voltage		Driver		Color temperature	
Series	2BLT4 2x4 BLT	(blank) Static A	Air supply/return <sup>1</sup>	<b>Standard efficiency (&gt;100 LPW)</b>	<b>High efficiency<sup>3,4</sup> (&gt;130 LPW)</b>	ADP Curved, linear prisms	ADSM Curved, smooth	(blank) MVOLT	EZ1 eldoLED dims to 1% (0-10 volt dimming)	LP830 82CRI, 3000 K	LP835 82CRI, 3500 K	LP840 82CRI, 4000 K	LP850 82CRI, 5000 K
				30L 3000	40LHE 4000	SDP Square, linear prisms	SDSM Square, smooth	120 120V	SLD Step-level dimming <sup>6</sup>	LP930 90CRI, 3000K	LP935 90CRI, 3500K	LP940 90CRI, 4000K	LP950 90CRI, 5000K
				40L 4000	48LHE 4800	<b>Includes trim rings to match sensored version</b>		277 277V	LE1 Lutron Ecosystem driver dims to 1% <sup>6,7</sup>				
				48L 4800	60LHE 6000	ADPT Curved, linear prisms	ADSMT Curved, smooth	347 347V <sup>6</sup>					
				60L 6000	72LHE 7200	SDPT Square, linear prisms	SDSMT Square, smooth						
				72L 7200	85LHE 8500								

Controls		Occupancy control <sup>10</sup>		Options	
(blank)	No nLight <sup>9</sup>	(blank)	No sensor control	EL7L	700 lumen battery pack <sup>13</sup>
N80	nLight <sup>9</sup> with 80% lumen management	<b>nLight Wired Networking</b>		EL14L	1400 lumen battery pack <sup>13</sup>
N80EMG	nLight <sup>9</sup> with 80% lumen management For use with generator supply EM power <sup>8</sup>	NE57 nLight <sup>9</sup> nES 7 PIR integral occupancy sensor <sup>11</sup>		EL14LSD	1400 lumen battery pack with self-diagnostic testing feature <sup>13,14</sup>
N100	nLight <sup>9</sup> without lumen management	NESPDT7 nLight <sup>9</sup> nES PDT 7 dual technology integral occupancy control <sup>11</sup>		CP	Chicago plenum <sup>15</sup>
N100EMG	nLight <sup>9</sup> without lumen management For use with generator supply EM power <sup>8</sup>	NE57ADCX nLight <sup>9</sup> nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell <sup>11</sup>		BGTD	Bodine Generator Transfer Device <sup>16</sup>
NLTAIR	nLight AIR enabled <sup>9</sup>	NESPDT7ADCX nLight <sup>9</sup> nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell <sup>11</sup>		PWS1836	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit
		<b>nLight Wireless Networking</b>		PWS1846	6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit
		RES7N nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities		PWS1846 PWSLV	Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge, purple and gray <sup>17</sup>
				PWS1856LV	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires <sup>17</sup>
				GLR	Fast-blowing fuse <sup>18</sup>
				GMF	Slow-blowing fuse <sup>18</sup>
				NPLT	Narrow pallet
				RRL_	RELOC <sup>9</sup> -ready luminaire <sup>19</sup>
				LATC	Earthquake clip
				DWAM	Anti-Microbial paint
				JP16	Job packaging
				IP5X	Gasketed diffuser compartment to meet IP5X rating <sup>20</sup>

Accessories next page

### Notes

- Consult factory for airflow data.
- Approximate lumen output.
- All versions may not achieve 130+ LPW. Refer to photometry on [www.acuitybrands.com](http://www.acuitybrands.com).
- Air supply/return option, 90 CRI, and versions with integral sensor trim rings may not achieve 130 LPW.
- Not available with SLD EL7L, or EL14L options.
- Not available with N80, N80EMG, N100, N100EMG, NLTAIR, or occupancy control.
- Not available with controls, occupancy controls, or PWS options. Consult factory for HI-Lume dimming.
- nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture.
- Must order with RES7N or RES7Z sensor. Only available with EZ1 driver. Not available with 72L, 72LHE, or 85LHE options.
- Must specify diffuser with trim rings. See sensor options on page 4.
- Requires N80, N80EMG, N100, or N100EMG.
- Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.
- When using pre-wire option, use PWS1846 or PWS1846 PWSLV.
- For more information, please see the [PSSD2 specification sheet](#).
- Not available with N80, N80EMG, N100, or N100EMG.
- Must specify voltage. Requires BSE labeling, voltage specific. Consult factory for options.
- Not available with nLight wired/wireless network or individual controls.
- Must specify voltage, 120 or 277, with GLR and GFM fusing.
- For ordering logic consult [RRL\\_2013](#).
- Not available with air supply/return or Wired Networking (NES\_) and Individual Control (MSD\_) sensors.

## 2BLT Volumetric Recessed Lighting 2'x4'

Non-Configurable BLT								
Stock/MTO	Catalog Description *	UPC	Lumens	Wattage	LPW	Color Temperature	Voltage	Pallet Qty
Stock	2BLT4 40L ADP LP835	00190887470789	3945	34	116	3500K/82 CRI	120-277	26
	2BLT4 40L ADP LP840	00190887470765	4032	34	118	4000K/82CRI	120-277	26
	2BLT4 46L ADP LP835	00190887468656	4520	38.34	118	3500K/82 CRI	120-277	26
	2BLT4 46L ADP LP840	00190887468649	4620	38.34	120	4000K/82CRI	120-277	26
	2BLT4 40L ADP EL14L LP835	00190887470925	3945	34	116	3500K/82 CRI	120-277	26
	2BLT4 40L ADP EL14L LP840	00190887470918	4032	34	118	4000K/82 CRI	120-277	26
	2BLT4 46L ADP EL14L LP835	00190887468670	4520	38.34	118	3500K/82 CRI	120-277	26
	2BLT4 46L ADP EL14L LP840	00190887468663	4620	38.34	120	4000K/82 CRI	120-277	26
MTO	2BLT4 40L ADP 347 LP835		3945	34	116	3500K/82 CRI	347	26
	2BLT4 40L ADP 347 LP840		4032	34	118	4000K/82CRI	347	26
	2BLT4 46L ADP 347 LP835		4520	38.34	118	3500K/82 CRI	347	26
	2BLT4 46L ADP 347 LP840		4620	38.34	120	4000K/82CRI	347	26

\*Generic 0-10V Dimming to 10%.

Accessories: Order as separate catalog number.	
DGA24	Drywall grid adapter for 2x4 recessed fixture

nLight® Wired Control Accessories: Order as separate catalog number. Visit <a href="http://www.acuitybrands.com/products/controls/nlight">www.acuitybrands.com/products/controls/nlight</a> .			
<b>WallPod stations</b>	<b>Model number</b>	<b>Occupancy sensors</b>	<b>Model number</b>
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 RJB / nCM PDT 9 RJB
On/Off & raise/lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM10 RJB / nCM PDT 10 RJB
Graphic touchscreen	nPOD GFX [color]	Wall switch with raise/lower	nWSX PDT LV DX [color]
<b>Photocell controls</b>	<b>Model number</b>	<b>Cat-5 cable (plenum rated)</b>	<b>Model number</b>
Full range dimming	nCM ADCX RJB	10' cable	CAT5 10FT J1
		30' cable	CAT5 30FT J1

nLight® AIR Control Accessories: Order as separate catalog number. Visit <a href="http://www.acuitybrands.com/products/controls/nlightair">www.acuitybrands.com/products/controls/nlightair</a> .	
<b>Wall switches</b>	<b>Model number</b>
On/Off single pole	rPODB [color]
On/Off two pole	rPODB 2P [color]
On/Off & raise/lower single pole	rPODB DX [color]
On/Off & raise/lower two pole	rPODB 2P DX [color]
On/Off & raise/lower single pole	rPODBZ DX WH <sup>1</sup>

**Notes**

1 Can only be ordered with the RES7Z zone control sensor version.

Replacement Parts: Order as separate catalog number.		
*249P2N	2DBLT48 ADP LENS ASSEMBLY	4 ft. replacement lens
*249P2T	2DBLT48 SDP LENS ASSEMBLY	4 ft. replacement lens
*249P30	2DBLT48 ADSM LENS ASSEMBLY	4 ft. replacement lens
*249P33	2DBLT48 SDSM LENS ASSEMBLY	4 ft. replacement lens
*237LT2	2DBLT48 ADPT LENS ASSEMBLY	4 ft. replacement lens
*237LT4	2DBLT48 SDPT LENS ASSEMBLY	4 ft. replacement lens
*237LT6	2DBLT48 ADSMT LENS ASSEMBLY	4 ft. replacement lens
*237LT8	2DBLT48 SDSMT LENS ASSEMBLY	4 ft. replacement lens
*237LTA	2DBLT48 ADPT SENSOR LENS ASSEMBLY	4 ft. replacement lens
*237MS2	2DBLT48 SDPT SENSOR LENS ASSEMBLY	4 ft. replacement lens
*237MSA	2DBLT48 ADSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens
*237MSL	2DBLT48 SDSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens

## 2BLT Volumetric Recessed Lighting 2'x4'

Sensor Options						
Option	Automatic Dimming Photocell	Occupancy Sensing		nLight Wired Networking	nLight AIR Networking	nLight AIR Zone
		PIR	PDT			
MSD7ADCX	X	X				
MSDPDT7ADCX	X		X			
NES7		X		X		
NES7ADCX	X	X		X		
NESPDT7			X	X		
NESPDT7ADCX	X		X	X		
RES7N	X	X			X	
RES7Z	X	X				X

### Integrated Sensor with Individual Control

The MSD7ADCX PIR occupancy sensor/automatic dimming photocell is ideal for areas without obstructions and where daylight harvesting may be desired. Suggested applications include, but not limited to, hallways, corridors, storage rooms, and breakrooms or other areas where people are typically moving.

The MSPDT7ADCX PIR/Microphonics Dual Tech occupancy sensor/automatic dimming photocell is ideal for areas with obstructions and where daylight harvesting is desired. Suggested applications include, but not limited to, open offices, private offices, classrooms, public restrooms, and conference rooms.

### Basic nLight Zone

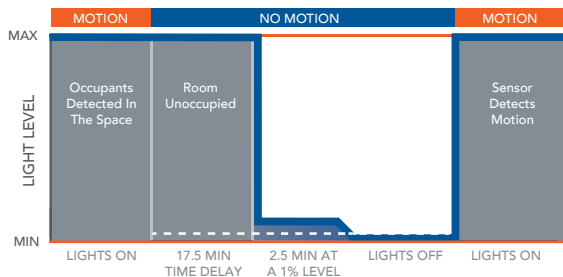


### nLight Wired Networking

The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion. Ideal areas include hallways, corridors, storage rooms, and breakrooms. Additionally, the NES7ADCX includes an integrated photocell, which enables daylight harvesting controls.

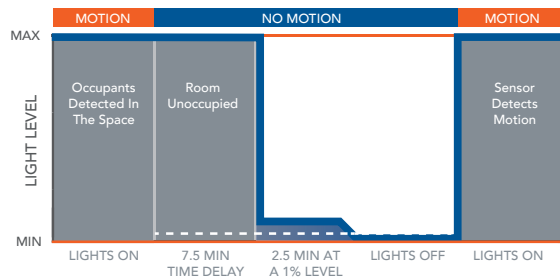
For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the NESPDT7ADCX includes an integrated photocell, which enables daylight harvesting controls which is ideal for areas where windows are present.

### Sequence of Operation



\*The presetting on the automatic dimming photocell is 5fc.

### Sequence of Operation

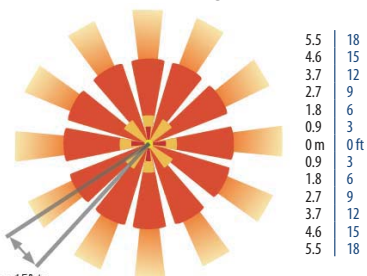


\*The presetting on the automatic dimming photocell is 5fc.

### Sensor Coverage Pattern Mini 360° Lens

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor

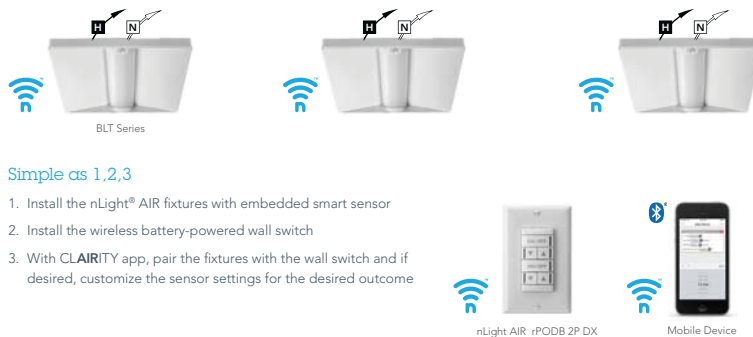
### 9 FT Mounting



Lens rotates 15° to enable adjustment

### nLight AIR Wireless

nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and costly. The integrated rES 7 smart sensor is part of each luminaire in the nLight AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application.



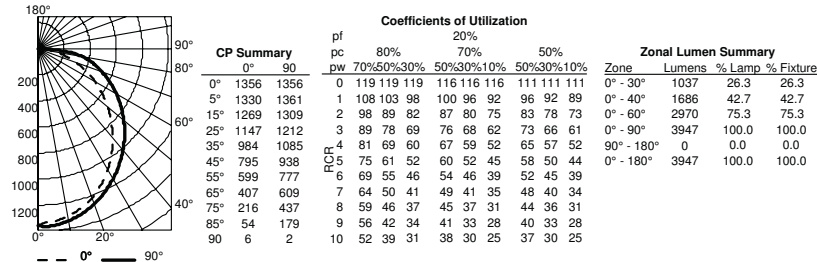
### Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome

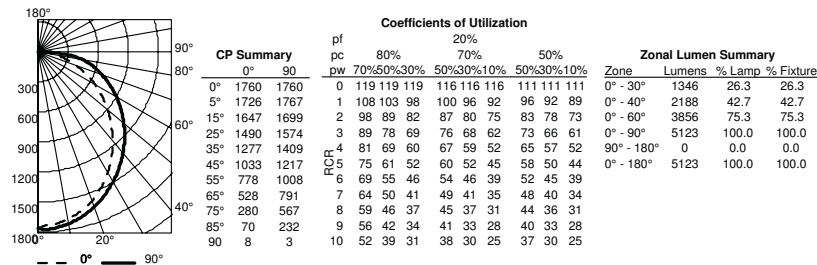
## 2BLT Volumetric Recessed Lighting 2'x4'

### PHOTOMETRICS

2BLT4 40L ADP LP835, 3945 delivered lumens, test no. LTL28918P37, tested in accordance to IESNA LM-79

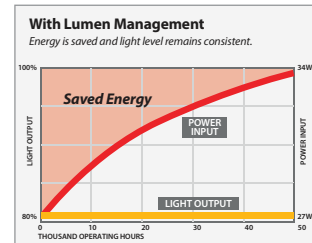
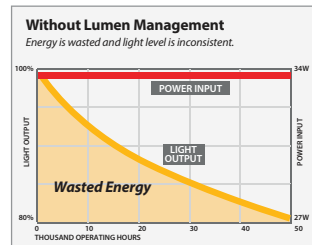


2BLT4 48L ADP LP835, 5121 delivered lumens, test no. LTL28918P41, tested in accordance to IESNA LM-79



### Constant Lumen Management

Enabled by the embedded nLight control, the BLT actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.

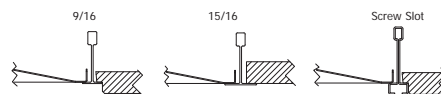


Performance Data			
Lumen Package	Lumens	Input Watts	LPW
30L ADP LP830	3286	30	110
30L ADP LP835	3371	30	113
30L ADP LP840	3445	30	115
30L ADP LP850	3614	30	121
40L ADP LP830	3846	34	113
40L ADP LP835	3945	34	116
40L ADP LP840	4032	34	118
40L ADP LP850	4230	34	124
48L ADP LP830	4993	45	111
48L ADP LP835	5121	45	114
48L ADP LP840	5234	45	116
48L ADP LP850	5492	45	122
60L ADP LP830	6014	53	114
60L ADP LP835	6169	53	117
60L ADP LP840	6305	53	119
60L ADP LP850	6615	53	125
72L ADP LP830	7388	67	110
72L ADP LP835	7579	67	113
72L ADP LP840	7746	67	115
72L ADP LP850	8127	67	121
AIR 30L ADP LP830	3075	30	103
AIR 30L ADP LP835	3138	30	105
AIR 30L ADP LP840	3223	30	108
AIR 30L ADP LP850	3250	30	108
AIR 40L ADP LP830	3599	34	105
AIR 40L ADP LP835	3673	34	108
AIR 40L ADP LP840	3772	34	110
AIR 40L ADP LP850	3804	34	111
AIR 48L ADP LP830	4672	45	104
AIR 48L ADP LP835	4897	45	109
AIR 48L ADP LP840	4897	45	109
AIR 48L ADP LP850	4939	45	110
AIR 60L ADP LP830	5628	53	106
AIR 60L ADP LP835	5743	53	108
AIR 60L ADP LP840	5899	53	111
AIR 60L ADP LP850	5949	53	112
AIR 72L ADP LP830	6914	67	103
AIR 72L ADP LP835	7055	67	105
AIR 72L ADP LP840	7247	67	108
AIR 72L ADP LP850	7309	67	109

HE Performance Data			
Lumen Package	Lumens	Input Watts	LPW
48LHE ADP LP830	4655	36	127
48LHE ADP LP835	4775	36	130
48LHE ADP LP840	4880	36	133
48LHE ADP LP850	5121	36	139
60LHE ADP LP830	5473	42	129
60LHE ADP LP835	5614	42	132
60LHE ADP LP840	5738	42	135
60LHE ADP LP850	6020	42	142
72LHE ADP LP830	6805	52	130
72LHE ADP LP835	6981	52	133
72LHE ADP LP840	7135	52	136
72LHE ADP LP850	7486	52	143
85LHE ADP LP830	8189	64	127
85LHE ADP LP835	8400	64	131
85LHE ADP LP840	8585	64	134
85LHE ADP LP850	9008	64	140

### MOUNTING DATA

Ceiling Type	Appropriate Trim Type
Exposed grid tee (1' and 9/16")	G
Concealed grid tee	G
Plaster or plasterboard	G*



\*DGA accessory available to provide ceiling trim flange and fixture support for plaster or plasterboard ceiling. Recommended rough-in dimensions for DGA installation is 24-3/4" x 48-3/4" (Tolerance is +1/8", -0").



## FEATURES & SPECIFICATIONS

**INTENDED USE** — The BLT Best-in-Value Low Profile LED luminaire features a popular center basket design that offers a clean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance compared to traditional sources. An extensive selection of configurations and options make the BLT the perfect choice for many lighting applications including schools, offices and other commercial spaces, retail, hospitals and healthcare facilities. The low profile BLT design (2-3/4") also makes it an excellent choice for renovation projects.

**CONSTRUCTION** — BLT enclosure components are die-formed for dimensional consistency and painted after fabrication with a polyester powder paint for improved performance and protection.

The reflector is finished with a high reflective matte white powder paint for improved aesthetics and increased light diffusion.

End plates contain easy-to-position integral T-bar clips for securely attaching the luminaire to the T-grid. For additional T-grid security, optional screw on T-bar clips are available.

Diffusers are extruded from impact modified acrylic for increased durability. Injection molded diffuser light traps add a finished look to the diffuser ends and help seal the diffuser to the housing end plates. Optional diffuser trim rings provide an attractive mounting for integral sensors as well as adding a decorative element to the luminaire aesthetics.

LED boards are accessible from below; driver is accessible from the plenum.

**OPTICS** — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces – rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Four diffuser choices available - curved and square designs with linear prisms or a smooth frosted finish.

**ELECTRICAL** — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000).

**Non-Configurable BLT:** 0-10 volt dimming driver. Dims to 10%

**Configurable BLT:** available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. The High Efficiency versions deliver > 130 LPW and can be specified via the Lumen Package designations in the Ordering Information below.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight™ controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices and the BLT luminaires using standard Cat-5 cabling. Unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission.

Lumen Management: Unique lumen management system (option N80) provides on board intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Driver disconnect provided where required to comply with US and Canadian codes.

**SENSOR** — **Integrated sensor (individual control):** Sensor Switch MSD7ADCX ((Passive infrared (PIR)) or MSDPDT7ADCX ((PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 2 for more details on the integrated sensor.

**Integrated Sensor (nLight Wired Networking):** This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 2 for the nLight sensor options.

**INSTALLATION** — The BLT's low profile design of only 2-3/4" provides increased installation flexibility especially in restrictive plenum applications. The BLT fits into standard 15/16" and narrow 9/16" T-grid ceiling systems.

Suitable for damp location.

For recessed mounting in hard ceiling applications, Drywall Grid Adapters (DGA) are available as an accessory. See Accessories section.

**LISTINGS** — CSA Certified to meet U.S. and Canadian standards. IC rated.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomResources/Terms_and_conditions.aspx)

NOTE: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

### BLT Series LED

# BLT

1' x 4'  
LED

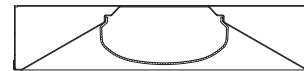


#### Specifications

Length: 47-3/4 (121.2)

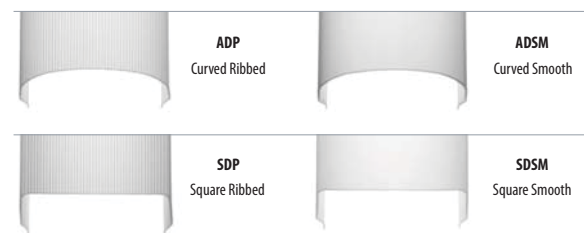
Width: 11-3/4 (29.8)

Depth: 2-3/4 (6.9)



All dimensions are inches (centimeters) unless otherwise specified.

### Multiple Diffuser Options



## BLT Volumetric Recessed Lighting 1'x4'

**ORDERING INFORMATION** Lead times will vary depending on options selected. Consult with your sales representative. **Example:** BLT4 30L ADP EZ1 LP835

BLT4		Air function		Lumens <sup>1</sup>		Diffuser		Voltage		Driver		Color temperature	
BLT4	1x4 BLT	(blank)	Static	<b>Standard efficiency (&gt;100 LPW)</b>	<b>High efficiency (&gt;130 LPW)</b>	ADP	Curved, Linear Prisms	(blank)	MVOLT	EZ1	eldoLED dims to 1% (0-10 volt dimming)	LP830	82CRI, 3000 K
				20L 2000	20LHE 2000	ADSM	Curved, Smooth	347	347 <sup>2</sup>	SLD	Step-level dimming <sup>3</sup>	LP835	82CRI, 3500 K
				30L 3000	30LHE 3000	SDP	Square, Linear Prisms					LP840	82CRI, 4000 K
				40L 4000	40LHE 4000	SDSM	Square, Smooth					LP850	82CRI, 5000 K
				48L 4800	48LHE 4800	<b>Diffusers w/ trim rings</b>						LP930	90CRI, 3000K
				60L 6000	60LHE 6000	ADPT	Curved, Linear Prisms					LP935	90CRI, 3500K
						ADSMT	Curved, Smooth					LP940	90CRI, 4000K
						SDPT	Square, Linear Prisms					LP950	90CRI, 5000K
						SDSMT	Square, Smooth						

Controls		Occupancy Control <sup>5</sup>		Options	
(blank)	No nLight <sup>®</sup>	(blank)	No sensor control	EL7L	700 lumen battery pack <sup>8</sup>
N80	nLight <sup>®</sup> with 80% lumen management	NES7	<b>nLight Wired Networking</b>	EL14L	1400 lumen battery pack <sup>8</sup>
N80EMG	nLight <sup>®</sup> with 80% lumen management For use with generator supply EM power <sup>4</sup>	NESPD7	nLight™ nES 7 PIR integral occupancy sensor <sup>6</sup>	CP	Chicago plenum
N100	nLight <sup>®</sup> without lumen management	NESPD7	nLight™ nES PDT 7 dual technology integral occupancy control <sup>6</sup>	BGTD	Bodine Generator Transfer Device
N100EMG	nLight <sup>®</sup> without lumen management For use with generator supply EM power <sup>4</sup>	NES7ADCX	nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell <sup>6</sup>	PWS1836	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit
		NESPD7ADCX	nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell <sup>6</sup>	PWS1846	6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit
				PWS1846 PWSLV	Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge, purple and grey
				PWS1856LV	6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/low voltage purple and grey wires
				GLR	Fast-blowing fuse <sup>9</sup>
				GMF	Slow-blowing fuse <sup>9</sup>
				NPLT	Narrow pallet
				RRL_	RELOC <sup>®</sup> -ready luminaire <sup>10</sup>
				LATC	Earthquake clip
				DWAM	Anti-Microbial paint

Accessories next page

Non-Configurable BLT Configurations								
Stock/MTO	Catalog Description *	UPC	Lumens	Wattage	LPW	Color Temperature	Voltage	Pallet Qty
Stock	BLT4 40L ADP LP835	00889804541557	3975	34	116	3500K/82 CRI	120-277	39
	BLT4 40L ADP LP840	00889804541571	4062	34	119	4000K/82CRI	120-277	39
MTO	BLT4 40L ADP 347 LP835	00889804569414	3975	34	116	3500K/82 CRI	347	39
	BLT4 40L ADP 347 LP840	00889804569438	4062	34	119	4000K/82CRI	347	39

\*0-10V Dimming to 10%.

**Notes**

- 1 Approximate lumen output.
- 2 Not available with SLD,EL7L or EL14L battery packs.
- 3 Not available with N80, N80EMG, N100, N100EMG or occupancy control.
- 4 nLight EMG option requires a connection to existing nLight network. Power is provided from a separate N80 or N100 enabled fixture
- 5 Must specify diffuser with trim rings. See sensor options on page 3.
- 6 Requires N80, N80EMG, N100, or N100EMG.
- 7 Only available with EZ1 driver option. 0-10v dimming wires not accessible via access plate.
- 8 When using pre-wire option, use PWS1846 or PWS1846 PWSLV.
- 9 Must specify voltage, 120 or 277.
- 10 For ordering logic consult: [RRL\\_2013](#).



## BLT Volumetric Recessed Lighting 1'x4'

Accessories: Order as separate catalog number.	
DGA14	Drywall grid adapter for 1x4 recessed fixture

nLight® Control Accessories: Order as separate catalog number. Visit <a href="http://www.acuitybrands.com/products/controls/nlight">www.acuitybrands.com/products/controls/nlight</a> .			
<b>WallPod stations</b>	<b>Model number</b>	<b>Occupancy sensors</b>	<b>Model number</b>
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 RJB / nCM PDT 9 RJB
On/Off & raise/lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM10 RJB / nCM PDT 10 RJB
Graphic touchscreen	nPOD GFX [color]	Wall switch with raise/lower	nWSX PDT LV DX [color]
<b>Photocell controls</b>	<b>Model number</b>	<b>Cat-5 cable (plenum rated)</b>	<b>Model number</b>
Full range dimming	nCM ADCX RJB	10' cable	CAT5 10FT J1
		30' cable	CAT5 30FT J1

Replacement Parts: Order as separate catalog number.		
*237LKE	DBLT48 ADP LENS ASSEMBLY	4 ft. replacement lens (light traps included)
*237LKL	DBLT48 SDP LENS ASSEMBLY	4 ft. replacement lens (light traps included)
*237LL2	DBLT48 ADSM LENS ASSEMBLY	4 ft. replacement lens (light traps included)
*237LLA	DBLT48 SDSM LENS ASSEMBLY	4 ft. replacement lens (light traps included)
*237LT2	DBLT48 ADPT LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237LT4	DBLT48 SDPT LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237LT6	DBLT48 ADSMT LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237LT8	DBLT48 SDSMT LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237LTA	DBLT48 ADPT SENSOR LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237M52	DBLT48 SDPT SENSOR LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237M5A	DBLT48 ADSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens (trims included)
*237M5L	DBLT48 SDSMT SENSOR LENS ASSEMBLY	4 ft. replacement lens (trims included)

## BLT Volumetric Recessed Lighting 1'x4'

Sensor Options				
Option	Automatic Dimming Photocell	Occupancy Sensing		nLight Wired Networking
		PIR	PDT	
MSD7ADCX	X	X		
MSDPDT7ADCX	X		X	
NES7		X		X
NES7ADCX	X	X		X
NESPDT7			X	X
NESPDT7ADCX	X		X	X



### Integrated Sensor with Individual Control

The MSD7ADCX PIR occupancy sensor/automatic dimming photocell is ideal for areas without obstructions and where daylight harvesting may be desired. Suggested applications include, but not limited to, hallways, corridors, storage rooms, and breakrooms or other areas where people are typically moving.

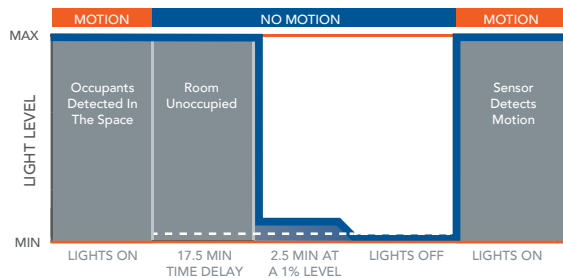
The MSDPDT7ADCX PIR/Microphonics Dual Tech occupancy sensor/automatic dimming photocell is ideal for areas with obstructions and where daylight harvesting is desired. Suggested applications include, but not limited to, open offices, private offices, classrooms, public restrooms, and conference rooms.

### nLight Wired Networking

The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion. Ideal areas include hallways, corridors, storage rooms, and breakrooms. Additionally, the NES7ADCX includes an integrated photocell, which enables daylight harvesting controls.

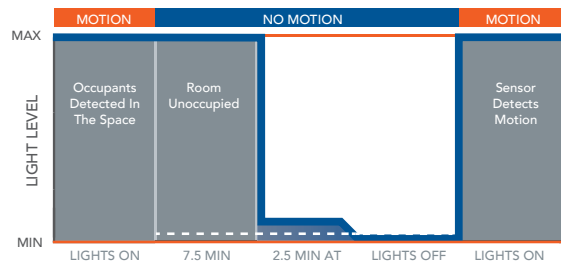
For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy. Additionally, the NESPDT7ADCX includes an integrated photocell, which enables daylight harvesting controls which is ideal for areas where windows are present.

### Sequence of Operation



\*The presetting on the automatic dimming photocell is 5fc.

### Sequence of Operation

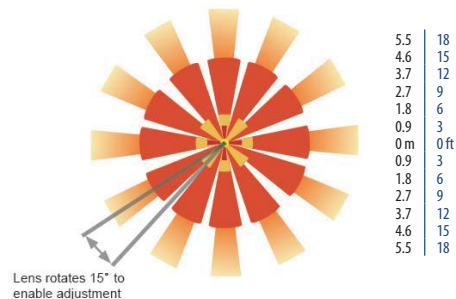


\*The presetting on the automatic dimming photocell is 5fc.

### Sensor Coverage Pattern Mini 360° Lens

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor

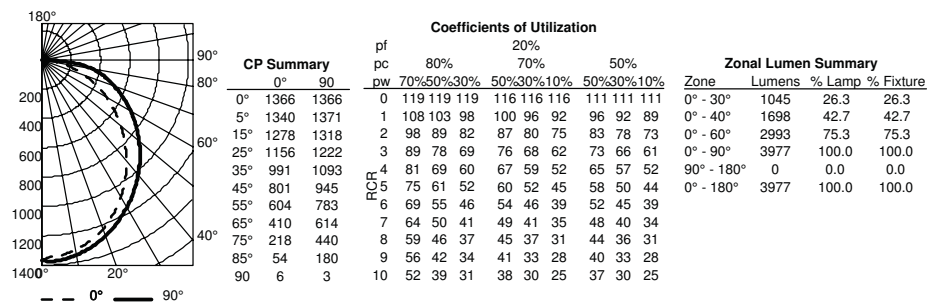
### 9 FT Mounting



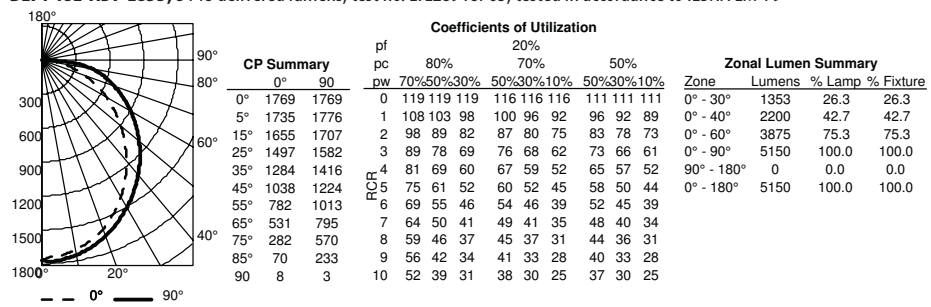
# BLT Volumetric Recessed Lighting 1'x4'

## PHOTOMETRICS

**BLT4 40L ADP LP835**, 3975 delivered lumens, test no. LTL28918P61, tested in accordance to IESNA LM-79

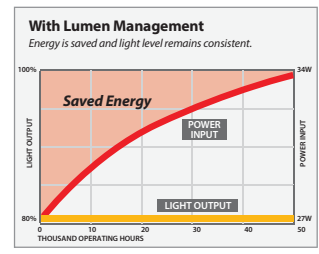
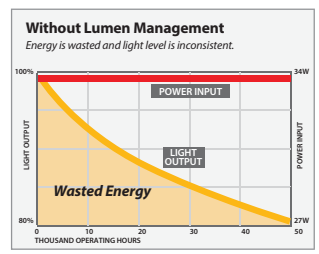


**BLT4 48L ADP LP835**, 5148 delivered lumens, test no. LTL28918P65, tested in accordance to IESNA LM-79



## Constant Lumen Management

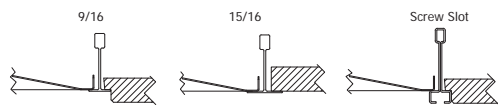
Enabled by the embedded nLight control, the BLT actively tracks its run-time and manages its light source such that constant lumen output is maintained over the system life. Referred to as lumen management, this feature eliminates the energy waste created by the traditional practice of over-lighting.



Performance Data			
Lumen Package	Lumens	Input Watts	LPW
20L ADP LP830	2231	19	120
20L ADP LP835	2289	19	123
20L ADP LP840	2339	19	126
20L ADP LP850	2454	19	132
30L ADP LP830	3311	29	113
30L ADP LP835	3397	29	116
30L ADP LP840	3471	29	119
30L ADP LP850	3642	29	124
40L ADP LP830	3875	34	113
40L ADP LP835	3975	34	116
40L ADP LP840	4062	34	119
40L ADP LP850	4262	34	125
48L ADP LP830	5018	46	110
48L ADP LP835	5148	46	112
48L ADP LP840	5261	46	115
48L ADP LP850	5520	46	121
60L ADP LP830	5969	53	112
60L ADP LP835	6124	53	115
60L ADP LP840	6258	53	117
60L ADP LP850	6566	53	123

HE Performance Data			
Lumen Package	Lumens	Input Watts	LPW
48LHE ADP LP830	4701	36	129
48LHE ADP LP835	4822	36	132
48LHE ADP LP840	4929	36	135
48LHE ADP LP850	5171	36	142
60LHE ADP LP830	5400	42	128
60LHE ADP LP835	5540	42	132
60LHE ADP LP840	5662	42	134
60LHE ADP LP850	5941	42	141

MOUNTING DATA	
Ceiling Type	Appropriate Trim Type
Exposed grid tee (1' and 9/16")	G
Concealed grid tee	G
Plaster or plasterboard	G*



\*DGA accessory available to provide ceiling trim flange and fixture support for plaster or plasterboard ceiling. Recommended rough-in dimensions for DGA installation is 12-3/4" x 48-3/4" (Tolerance is +1/8", -0").



## FEATURES & SPECIFICATIONS

**INTENDED USE** — Typical applications include corridors, lobbies, conference rooms and private offices.

**CONSTRUCTION** — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment.

Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

**OPTICS** — LEDs are binned to a 3-step SDCM; 80 CRI minimum.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

**ELECTRICAL** — Multi-volt (120-277V, 50/60Hz) eldoLED 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

70% lumen maintenance at 50,000 hours.

**LISTINGS** — Certified to US and Canadian safety standards. Damp location standard (wet location, covered ceiling optional).

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at

[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

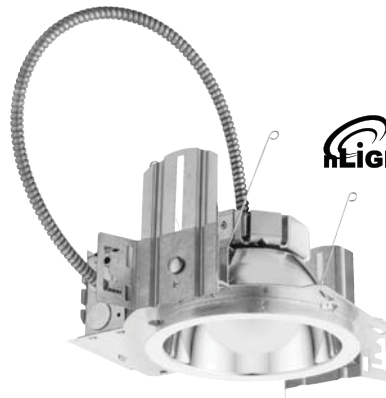
**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

# LDN6

**6" OPEN and WALLWASH LED  
Non-IC  
New Construction Downlight**



A+ Capable options indicated by this color background.

### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

**Example:** LDN6 35/15 LO6AR LSS MVOLT EZ10

LDN6		Color temperature		Lumens <sup>1</sup>		Aperture/Trim Color		Finish		Voltage					
Series	6" round	27/	2700K	05	500 lumens	25	2500 lumens	LO6	Downlight	AR	Clear	LSS	Semi-specular	MVOLT	Multi-volt
		30/	3000K	10	1000 lumens	30	3000 lumens	LW6	Wallwash	WR <sup>2</sup>	White	LD	Matte diffuse	120	120V
		35/	3500K	15	1500 lumens	40	4000 lumens			BR <sup>2</sup>	Black	LS	Specular	277	277V
		40/	4000K	20	2000 lumens	50	5000 lumens							347 <sup>3</sup>	347V

Driver	Options
EZ10 eldoLED 10% 0-10V	SF <sup>4</sup> Single fuse
EZ1 eldoLED 1% 0-10V	TRW <sup>5</sup> White painted flange
	TRBL <sup>5</sup> Black painted flange
	ELR Batterypack (remote)
	EL Batterypack
	NPS80EZ <sup>6</sup> nLight® dimming pack controls 0-10V eldoLED drivers.
	NPS80EZER <sup>6</sup> nLight® dimming pack controls 0-10V eldoLED drivers. ER controls fixtures on emergency circuit.
	HAO High ambient option
	CP Chicago Plenum
	WL Wet location
	RRL <sup>6</sup> RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and RRLC12S.

Accessories: Order as separate catalog number.	
EAC ISSM 375	Compact interruptible emergency AC power system
EAC ISSM 125	Compact interruptible emergency AC power system
GRA68 JZ	Oversized trim ring with 8" outside diameter <sup>1</sup>
SCA6	Sloped ceiling adapter. Refer to <a href="#">TECH-SCA</a> for more options.

### Notes

- Overall height varies based on lumen package; refer to dimensional chart on page 3.
- Not available with finishes.
- Not available with emergency options.
- 120V only.
- Available with clear (AR) reflector only.
- Must specify voltage 120V or 277V.

G1.8.54

**JUNO**

# JUNO SLIMFORM™ LED SURFACE MOUNT DOWNLIGHTS

FOR J-BOX INSTALLATION

5", 7", 11", 13" ROUND

**JSF SERIES**

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

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

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

Contact/Phone: \_\_\_\_\_



## PRODUCT DESCRIPTION

Sleek, ultra-low profile energy efficient LED surface mount downlights in multiple sizes from 5" to 13" • Provides economical installation by mounting directly over standard and fire-rated junction boxes • Optional finish trims and shrouds available for custom, designer look similar to standard recessed downlights • Provides general illumination in residential and commercial applications including multi-family and hospitality • Ideal for use in corridors, living spaces, closets, hallways, pantries, stairways, outdoor covered areas and much more.

## PRODUCT SPECIFICATIONS

**Construction** Shallow, less than 1", solid ring with white finish • Non conductive fixture for shower light applications • Optional, field installable finish trims available for 5" and 7" versions to change the exterior finish of fixture • Optional, field installable decorative baffle and cone shrouds for 5" and 7" versions provide the aesthetic and source shielding similar to the experience of a fully recessed downlight.

**Optics** Light guide technology combined with diffusing lens conceals the LEDs from direct view and provides uniform lens luminance.

**LED Light Engine** LEDs mounted directly to heatsink designed to provide superior thermal management and ensure long life • 2700K, 3000K, 3500K or 4000K LED color temperature • LEDs binned for 4-step MacAdam ellipse color consistency • 90 CRI minimum.

**LED Driver** Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) driver that accommodates input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 at 120V input • 120 volt driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Universal voltage driver is dimmable with the use of most 0-10V wall box dimmers • External driver is only available on 5" and 7" models • For a list of compatible dimmers, see [JUNOSLIMFORM-DIM](#).

**Emergency Battery Option** Available on fixture sizes 11" and larger • Battery factory assembled to fixture with integral test switch (EL option) • Drives LEDs for 90 minutes to meet Life Safety Code (NFPA-LSC), National Electrical Code (NEC), and UL requirements • EBX option provides back box without battery for consistent look when used in same space as fixtures with EL emergency option.

**Life** Rated for 50,000 hours at >70% lumen maintenance.

**Labels** ENERGY STAR® certified • Certified to the high efficacy requirements of California T24 JA8-2016 • CSA listed for US and Canada • Suitable for wet locations (covered ceilings).

**Testing** All reports are based on published industry procedures; actual performance may differ as a result of the end-user environment and applications. All values are design or typical values, measured under laboratory conditions at 25 °C.

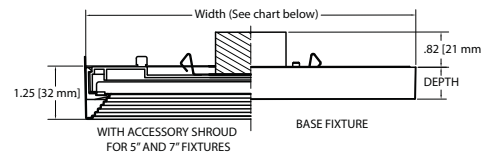
**Warranty** 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)  
Specifications subject to change without notice.

## INSTALLATION

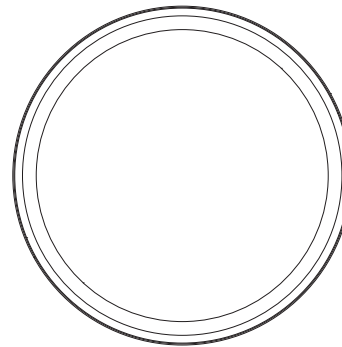
**Junction Box Mounting** Fixture provided with leads for direct wire connection in j-box • Installs directly to industry standard junction boxes • Compatible boxes include 4" metal or plastic octagonal standard and fire-rated junction boxes (3 1/2" junction box screw-hole spacing required for installation) • Minimum 2 1/8" deep junction box required for 5" and 7" fixtures (no depth requirement for 11" and larger fixtures) • Quick mount bracket provides fast installation of fully assembled fixture to junction box • Suitable for ceiling mount • Suitable for use within closet storage spaces when installed per NEC requirements.



## DIMENSIONS



External driver available on 5" and 7" models only.

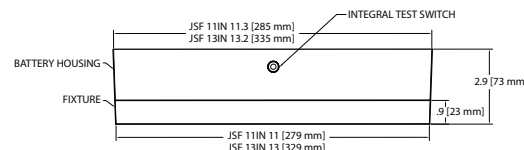


## ROUND SPECIFICATIONS

	Width	Depth
JSF 5IN	5.25 (13.34)	0.75 (1.91)
JSF 7IN	7.77 (19.74)	0.75 (1.91)
JSF 11IN	11.08 (28.14)	0.9 (2.29)
JSF 13IN	13.05 (33.15)	0.9 (2.29)

All dimensions are in inches (centimeters) unless otherwise indicated.

## EMERGENCY BATTERY FOR 11" AND 13"



**G1.8.54**

# JUNO SLIMFORM™ LED SURFACE MOUNT DOWNLIGHTS

FOR J-BOX INSTALLATION  
5", 7", 11", 13" ROUND  
**JSF SERIES**

**PERFORMANCE DATA**

	JSF 5IN		JSF 7IN		JSF 11IN		JSF 13IN	
	120V	MVOLT	120V	MVOLT	120V	MVOLT	120V	MVOLT
Lumens	700	700	1000	1000	1300	1300	1800	1800
CRI	90CRI		90CRI		90CRI		90CRI	
CCT	27K, 30K, 35K, 40K		27K, 30K, 35K, 40K		27K, 30K, 35K, 40K		27K, 30K, 35K, 40K	
Voltage	120V	120V-277V	120V	120V-277V	120V	120V-277V	120V	120V-277V
Input Power	10W	10W	13W	13W	15W	15W	20W	20W
Input Current	245MA	245MA	320MA	320MA	390MA	390MA	530MA	530MA
Frequency	50/60Hz		50/60Hz		50/60Hz		50/60Hz	
Power Factor	>0.9		>0.9		>0.9		>0.9	

**ORDERING INFORMATION**

Example: JSF 5IN 07LM 27K 90CRI 120 FRPC WH

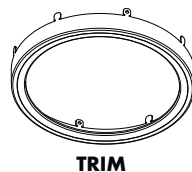
Series	Size/Lumens	Color Temperature	CRI	Voltage/Driver	Finish	Emergency Battery <sup>1</sup>
JSF SlimForm Surface Mount Downlight - Round	5IN 07LM 5", 700 Lumens 7IN 10LM 7", 1000 Lumens 11IN 13LM 11", 1300 Lumens 13IN 18LM 13", 1800 Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K	90CRI 90+ CRI	120 FRPC Dedicated 120V, Forward Reverse Phase Dimming MVOLT ZT Universal Voltage 120V-277V, 0-10V Dimming	WH White	EL Battery Back-up Option EBX Empty Back Box for Aesthetics

**ACCESSORIES**

**TRIM** – Optional, field installable finish trim rings available to change the exterior finish of fixture.

Example: JSFTRIM 5IN BL

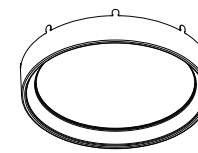
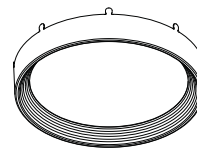
Series	Size	Finish
JSFTRIM SlimForm Accessory- Trim	5IN 5 inches 7IN 7 inches	BL Black BZ Bronze SN Satin Nickel



**SHROUD** – Optional, field installable decorative baffle and cone shrouds provides the aesthetic and source shielding similar to the experience of a fully recessed downlight.

Example: JSFSHROUD 5IN DB WWH

Series	Size	Shroud Style	Finish
JSFSHROUD SlimForm Accessory Shroud - Round	5IN 5 inches 7IN 7 inches	DB Downlight Baffle DC Downlight Cone	WWH White trim, white shroud BWH <sup>2</sup> Black trim, white shroud HZWH Haze trim, white shroud WHZWH Wheat Haze trim, white shroud



Note:

- 1 Emergency battery available with 11IN and 13IN only.
- 2 BWH only available with downlight baffle.

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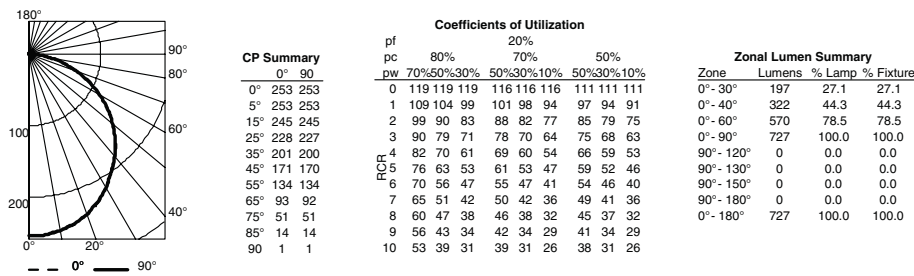
# JUNO SLIMFORM™ LED SURFACE MOUNT DOWNLIGHTS

FOR J-BOX INSTALLATION  
5", 7", 11", 13" ROUND  
JSF SERIES

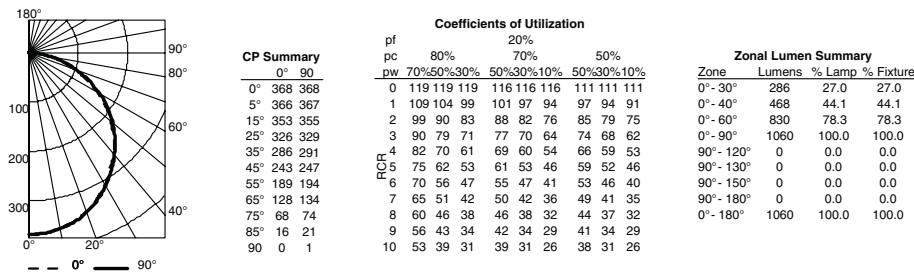
## PHOTOMETRICS

Distribution Curve      Distribution Data      Coefficient of Utilization      Illuminance Data at 30" Above Floor for a Single Luminaire

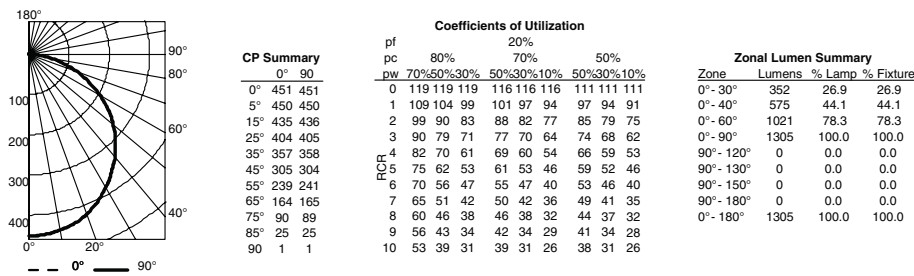
JSF 5IN 27K, 2700K LEDs, input watts: 9.72, delivered lumens: 727, LM/W = 74.8, test no. ISF 33599, tested in accordance to IESNA LM-79.



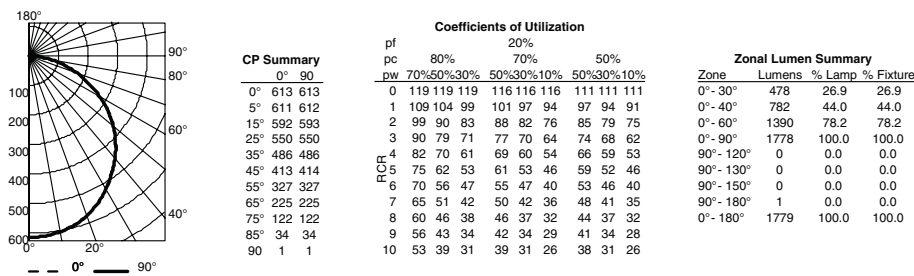
JSF 7IN 27K, 2700K LEDs, input watts: 12.8, delivered lumens: 1060, LM/W = 82.8, test no. ISF 33600, tested in accordance to IESNA LM-79.



JSF 11IN 27K, 2700K LEDs, input watts: 15.2, delivered lumens: 1305, LM/W = 85.9, test no. ISF 33661, tested in accordance to IESNA LM-79.



JSF 13IN 27K, 2700K LEDs, input watts: 20.2, delivered lumens: 1779, LM/W = 88, test no. ISF 33663, tested in accordance to IESNA LM-79.



For 30K fixtures, use 1.02 multiplier; For 35K fixtures, use 1.03 multiplier, For 40K fixtures, use 1.07 multiplier.



## FEATURES & SPECIFICATIONS

**INTENDED USE** — A general purpose and energy-efficient surface-mounted or suspended LED fixture, suitable for wet, damp and/or cold locations. For vapor-tight demanding environments where moisture or dust is a concern and where relatively low fixture mounting heights and wide fixture spacing are common. Typical applications include industrial facilities, parking garages, retail malls, multi-purpose rooms, garden centers, and food processing. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable use.](#)

**CONSTRUCTION** — One-piece 5VA fiberglass housing with integral perimeter channel utilizing continuous poured-in-place NEMA 4X gasket. Approved as a wireway and for through wiring. Captive polymeric latches are standard. Stainless steel latches (#316) available as an option for food processing or more demanding applications.

Power connection is easily accomplished through pre-drilled holes. Fixture easily mounts to ceilings and other solid structures, or can be suspended with chain, cable or rod using stainless steel mounting brackets (included).

**OPTICS** — Injection molded, acrylic lens (.080" thick) provides high impact-resistance comparable to 100% DR. For L48 Medium Distribution, a UV stabilized polycarbonate diffuser (.080" thick) in clear or frosted for additional impact strength where vandal protection is desired.

Expected service life of 60,000 hours at 80% lumen maintenance (L80); predicted life of more than 100,000 hours.

**ELECTRICAL** — Utilizes high-efficiency LEDs mounted to core circuit boards. High-efficiency drivers operate 120 thru 277V, 347V and 480V offered with 0-10 volt dimming, allowing granular control when coupled with wireless networking controls. Integral 6kV/3kA surge protection, tested in accordance to IEEE/ANSI standards.

**INSTALLATION** — Fixture can be ceiling or suspended mounted. Pre-punched stainless steel mounting brackets are included (two per luminaire) for easy field-attachment of bolts, screws and other mounting hardware. A covered ceiling is not required to maintain wet location listing or IP rating.

**LISTINGS** — CSA certified to UL and C-UL standards. Listed for wet locations in ambient temps ranging from -35°C (-31°F) to 25°C (77°F) when fixture is surface mounted or up to 45°C (113°F) when fixture is suspended at least 6" from ceiling. IP65, IP66 and IP67 rated. NSF splash-zone 2 certified and meets FDA/USDA guidelines. Nema 4X rated lens and housing. 1500 PSI hose-down. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**NOTE:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

**Stock configurations are offered for shorter lead times:**

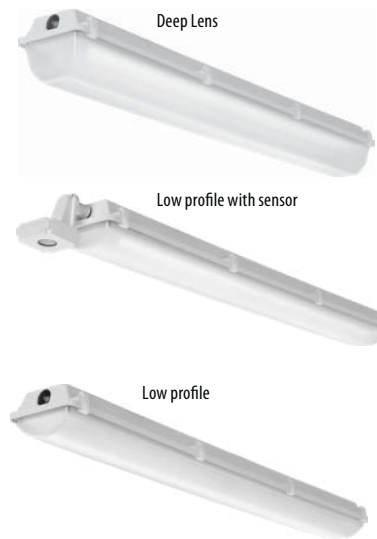
Standard Part Number	Stock Part Number
FEM L48 4000LM LPAFL MD MVOLT GZ10 40K 80CRI	FEM L48 4L MVOLT
FEM L48 4000LM LPAFL MD MVOLT GZ10 50K 80CRI	FEM L48 4L MVOLT 5K

Catalog Number
Notes
Type

Low-Profile Enclosed and Gasketed Industrial

# FEM LED

CEILING/ SUSPENDED MOUNT



**A+ Capable Luminaire**

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a [shaded background\\*](#)

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details



## FEM LED Low-Profile Enclosed and Gasketed

A+ Capable options indicated by this color background.

**ORDERING INFORMATION** Lead times will vary depending on options selected. Consult with your sales representative. **Example: FEM L48 4000LM IMAFL WD MVOLT GZ10 40K 80CRI**

Series	Length	Nominal Lumens	Diffuser	Distribution	Voltage	Driver	Color temperature	CRI
FEM	L48 48" <sup>1</sup>	3000LM 3,000 lumens	IMAFL Acrylic, linear ribbed frosted lens	MD Medium	MVOLT MVOLT	GZ10 0 - 10V dimming	30K 3000K	80CRI 80 CRI
		4000LM 4,000 lumens		WD Wide <sup>4</sup>	120 120V		35K 3500K	90CRI 90 CRI
		6000LM 6,000 lumens	IMACD Acrylic, clear deep lens	277 277V	40K 4000K			
		8000LM 8,000 lumens	IMAFD Acrylic, deep frosted lens	347 347V <sup>5</sup>	50K 5000K			
		10000LM 10,000 lumens	LPAFL Acrylic, low profile frosted lens <sup>3</sup>	480 480V <sup>5</sup>				
	L96 96" <sup>2</sup>	9000LM 9,000 lumens	LPAFL Acrylic, low profile clear lens <sup>3</sup>					
		12000LM 12,000 lumens	LPPCL Polycarbonate, low profile clear lens <sup>3</sup>					
		15000LM 15,000 lumens	LPPFL Polycarbonate, low profile frosted lens <sup>3</sup>					
		18000LM 18,000 lumens						
		20000LM 20,000 lumens						

Options					
SF	Single fuse (available with 120, 277, 347) <sup>6</sup>	CS88	6' Brad Harrison 16/3 cord and straight blade plug set <sup>6</sup>	MS110NWL	Low mount 360° integral motion sensor, wet location, On/Off operation <sup>6</sup>
DF	Double Fusing (available with 347, 480V) <sup>6</sup>	CS88L12	12' Brad Harrison 16/3 cord and straight blade plug set <sup>6</sup>	MS1102L3VWL	Low mount 360° integral motion sensor, wet location, High/Low operation (bi-level) <sup>6</sup>
BSLS20	Bodine® emergency LED battery pack for -20°C and up <sup>6,7</sup>	CS88R	Brad Harrison receptacle	MS110NWL DSCNWL	Low mount 360° integral motion sensor, wet location, On/Off operation for motion sensing, override Off due to daylight <sup>6</sup>
BGTD	Generator transfer device <sup>6,8</sup>	CS89	6' white cord, 16/3, no plug, wet location	MS110XAWL DSCXAWL	Xpoint wireless integral motion sensor, On/Off operation for motion sensing, override Off due to daylight <sup>6</sup>
SPD	Surge protection device, additional 10kV/5kA <sup>6</sup>	CS89L12	12' white cord, 16/3, no plug, wet location	XAD	XPoint™ wireless controller, 0-10V dimming <sup>6</sup>
WLF	Wet location fitting (two outboard, top)	TRS	Tamper Resistant Torx® T10 screws		
WLFEND	Wet location fitting (one end)	DPMB	Dual pendant mounting bracket		
WLFEND2	Wet location fitting (both ends)	STSL	Stainless steel latches		

Accessories: Order as separate catalog number.	
MHCH 36	Jack chain 36" (pair)
MHHK120	10' single leg air craft cable (ships as pair)
MHHK120SS	10' single leg air craft cable, stainless steel (ships as pair)
RK1 T10DRV	Torx® T10 screwdriver for TRS option
FEMDPMB	Dual pendant mounting bracket (ships as a pair)

### Notes

- Available with 3000LM, 4000LM, 6000LM, 8000LM, and 10000LM lumen packages. Not available with WD when using low profile diffuser.
- Available with 9000LM, 12000LM, 15000LM, 18000LM, and 20000LM. Not available with low profile diffuser options.
- Not available with L96. Not available with L48 when ordering WD option.
- Not available with L48 when ordering low-profile lens options.
- Utilizes step-down transformer. Not available with BGTD.
- Must specify voltage.
- Not available with 347 or 480V. For use in ambient temperature -20°C and up.
- Available with 120V or 277V only. For use in ambient environments up to 25C. Not available with L48 when ordering 10000LM lumen package. Not available with L96 when ordering 18000LM or 20000LM lumen packages.

## FEM LED Low-Profile Enclosed and Gasketed

### OPERATIONAL DATA

	Lumen packages	Wattage				Diffusers			
		120v	277v	347v	480v	Acrylic Lineal Frosted (IMAFL)	Frosted (IMAFD, LPAFL, LPPFL)	Clear (IMACD, LPAFL, LPPCL)	
<b>L48 Medium Distribution</b> *test results reflect less than 1% difference between acrylic (clear/deep/low profile) and polycarbonate (low profile) lens	<b>Delivered Lumens at 30K 80CRI</b>	3000LM	23	23	24	25	2972	3032	3071
		4000LM	31	30	31	32	4019	4100	4153
		6000LM	45	44	46	47	5925	6044	6122
		8000LM	69	67	70	71	7593	7746	7845
		10000LM	80	78	81	82	9781	9979	10107
	<b>Delivered Lumens at 35K 80CRI</b>	3000LM	23	23	24	25	3039	3100	3140
		4000LM	31	30	31	32	4109	4192	4246
		6000LM	45	44	46	47	6057	6179	6258
		8000LM	69	67	70	71	7762	7918	8020
		10000LM	80	78	81	82	9999	10201	10332
	<b>Delivered Lumens at 40K 80CRI</b>	3000LM	23	23	24	25	3086	3148	3189
		4000LM	31	30	31	32	4173	4257	4312
		6000LM	45	44	46	47	6151	6275	6356
		8000LM	69	67	70	71	7883	8042	8145
		10000LM	80	78	81	82	10155	10360	10493
	<b>Delivered Lumens at 50K 80CRI</b>	3000LM	23	23	24	25	3200	3264	3306
		4000LM	31	30	31	32	4326	4414	4470
		6000LM	45	44	46	47	6378	6506	6590
		8000LM	69	67	70	71	8173	8338	8445
		10000LM	80	78	81	82	10529	10741	10879

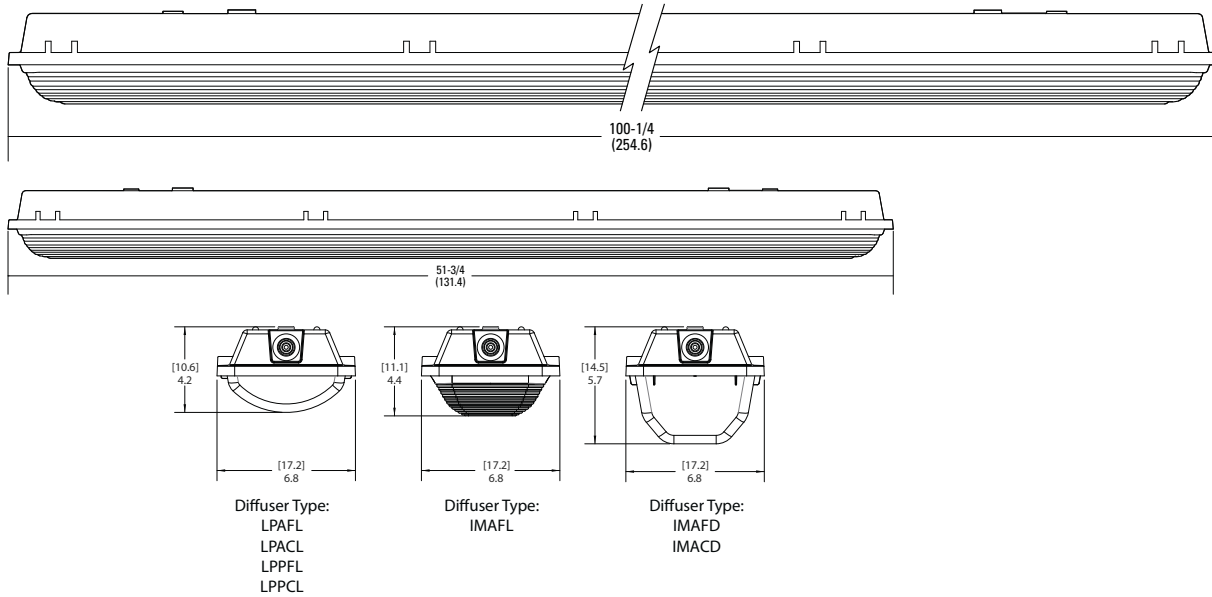
	Lumen packages	Wattage				Diffusers			
		120v	277v	347v	480v	Acrylic Lineal Frosted (IMAFL)	Acrylic Frosted (IMAFD)	Acrylic Clear (IMACD)	
<b>L96 Medium Distribution</b>	<b>Delivered Lumens at 30K 80CRI</b>	9000LM	65	64	66	67	8718	8959	9072
		12000LM	88	86	89	90	11370	11685	11831
		15000LM	120	118	122	124	14263	14657	14841
		18000LM	145	141	146	148	16863	17330	17547
		20000LM	160	156	162	164	19313	19847	20096
	<b>Delivered Lumens at 35K 80CRI</b>	9000LM	65	64	66	67	8913	9159	9274
		12000LM	88	86	89	90	11624	11945	12095
		15000LM	120	118	122	124	14581	14984	15172
		18000LM	145	141	146	148	17239	17716	17938
		20000LM	160	156	162	164	19743	20289	20544
	<b>Delivered Lumens at 40K 80CRI</b>	9000LM	65	64	66	67	9051	9302	9419
		12000LM	88	86	89	90	11805	12131	12284
		15000LM	120	118	122	124	14808	15218	15409
		18000LM	145	141	146	148	17507	17992	18218
		20000LM	160	156	162	164	20051	20605	20864
	<b>Delivered Lumens at 50K 80CRI</b>	9000LM	65	64	66	67	9385	9644	9765
		12000LM	88	86	89	90	12239	12578	12736
		15000LM	120	118	122	124	15353	15778	15976
		18000LM	145	141	146	148	18152	18654	18888
		20000LM	160	156	162	164	20789	21364	21632

## FEM LED Low-Profile Enclosed and Gasketed

### DIMENSIONS

Specifications subject to change without notice.  
All dimensions are inches (centimeters) unless otherwise indicated.

Weight (may vary with options or accessories)  
FEM L48: 11.9 lbs (5.397kg)  
FEM L96: 24.3 lbs (11.022kg)



### PHOTOMETRICS

See [www.lithonia.com](http://www.lithonia.com) for photometry reports.

5178 LED



Brushed Nickel (BN) finish

**5178 LED**

The 5178 features a slim, minimalist design and can be mounted horizontally over a mirror or vertically as a sconce. Diffuser is constructed of stout, matte-white acrylic with three sizes to choose from. Housing and decorative ends are standard in Brushed Nickel with optional finishes available.



Steel housing available in Brushed Nickel or painted finish

Matte-white acrylic diffuser

**FINISHES**



# 5178 LED

## STANDARD SPECIFICATIONS

### HOUSING

Cold rolled steel, die-formed, and assembled with hardware and welds. The housing can be mounted horizontal or vertical.

### DIFFUSER

Translucent, UV stabilized white acrylic. The extruded material can withstand minor impact without breaking. The decorative end caps are attached with hardware.

### LED PERFORMANCE - 3500K STANDARD

120-277V - 3500K, 82 CRI - L80 rating - 60,000 hrs - L70 rating (projected) - 100,000 hrs  
 Amperage rated @ 110V input  
 Dimming compatible - 0-10V control required  
 Operating ambient temperature: -20°C / -4°F - 40°C / 104°F

Standard 3500K source lumens noted. Consult Brownlee.com for performance of all CCTs.

F23LED - 23W nominal, .30 A input - 2762 lm - 122 lm/W  
 F45LED - 45W nominal, .60 A input - 5500 lm - 124 lm/W  
 H16LED - 16W nominal, .14 A input - 2076 lm - 126 lm/W  
 H25LED - 25W nominal, .20 A input - 3200 lm - 132 lm/W  
 H32LED - 32W nominal, .26 A input - 4119 lm - 130 lm/W

### MOUNTING

Fixture mounts directly to a 2x4 j-box (by others) and has a j-box cover included.

### FINISH

The 5178 series is finished in brushed nickel as a standard. It is available in all Brownlee paint finishes as an optional offering. Plated finishes such as Brushed Nickel are suitable for indoor applications only. Installation outdoors voids the Brownlee Limited Warranty.

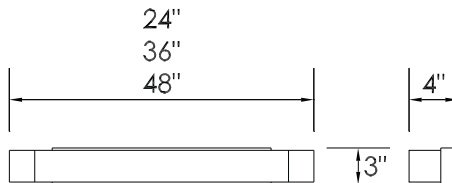
### WARRANTY

5 year limited warranty on this LED product. Consult factory for details.

PROJECT:
MODEL #:
FIXTURE TYPE:



BN finish



DAMP



## ORDERING INFORMATION

→ **5178** - 2. - 3. - 4. - 5. (if required)

### 2. SIZE

- 24 L: 24"
- 36 L: 36"
- 48 L: 48"

### 3. FINISH

**STANDARD**  
 → **BN** Brushed Nickel

- OPTIONAL**
- BL** Black
  - BT** Brass Tone
  - BZ** Bronze
  - GM** Gun Metal
  - MB** Metallic Bronze
  - NT** Nickel Tone
  - PL** Platinum
  - WH** White

**CUSTOM**  
 Provide color sample or RAL code to match

### 4. WATTAGE

- 24 SIZE**
- F23LED** 1-F Series board
  - H16LED** 1-H Series board
- 36 SIZE**
- H25LED** 2-H Series boards
- 48 SIZE**
- F45LED** 2-F Series boards
  - **H32LED** 2-H Series boards

### 5. AVAILABLE OPTIONS

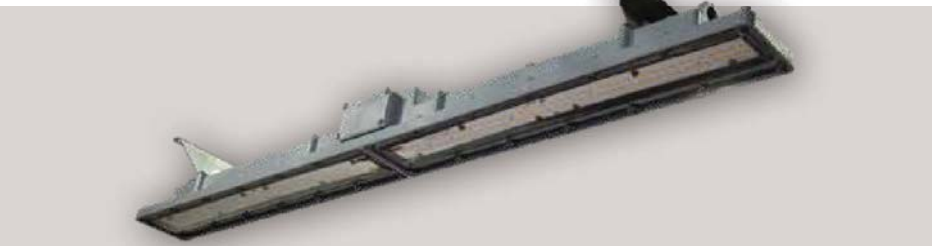
- **35K** 3500K standard color temperature
- 30K** 3000K color temperature
- 40K** 4000K color temperature
- 90R** 90 CRI (3000K only) (H Series only)
- BAC** Buy American Compliant
- ES** ENERGY STAR® (Not available in 90 CRI)

**Note:** F-Series & H-Series LED systems come standard with dimming driver (DIM).

Lighting Systems 

CHL LED

# Non-metallic heavy duty LED Lighting for hazardous locations



### Key Features

- Low-profile, lightweight design
- Heavy-duty, 1/8" thick body
- 3/4" NPT hubs
- Three cable entry points
- Toolless, cage-clamp terminal block
- Captive junction box cover and hardware
- Field replaceable LED circuit boards and drivers
- Impact resistant polycarbonate lens

### Classifications

- Class I, Division 2, Groups A, B, C and D
- Class II, Division 2, Groups F and G
- Class III
- UL 1598A Marine Outside Type
- UL 1598 Wet Locations
- UL 8750 LED Safety
- UL 844 Hazardous Locations
- UL 924 Emergency Lighting
- -40°C to 65°C Ambient Temperature
- CSA C22.2 No. 250.0-08
- CSA C22.2 No. 137-M1981
- NEMA 4X
- ABS type approved
- IP66
- Tested to LM 79 & LM 80

### Standard Materials

Body: Fiberglass reinforced polycarbonate  
 Gaskets: one-piece silicone  
 Lens: polycarbonate  
 Hubs (2): A360 aluminum (less than .4% copper content)  
 Hardware: stainless steel  
 Mounting brackets: stainless steel

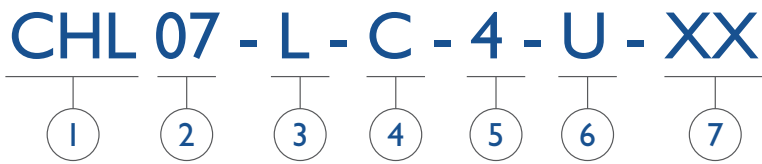
### Additional Features

- Standard 10kV surge protection
- Feed-through capable
- Various mounting options
- Emergency battery back-up
- Dimmable driver
- Diffused lens option
- 5-year warranty



## Certification Guide

Model	Length	Watts	Operating Voltage	Total Lumens	Lumens per Watt	CRI	CCT	Ambient Temperature	Class I, Div. 2, Group A, B, C, D	Supply Wire Suitable Temp. °C
CHL04LC2U	2 ft	29W	120V - 277V 50/60 Hz	3726	130	84	4125	-40°C < Tamb < 55°C	T4A	90°C
CHL04LC2U-EM	2 ft	20W		2080	130	84	4128	0°C < Tamb < 45°C	T6	90°C
CHL04LC2U-HL	2 ft	32W		4130	130	84	4133	-40°C < Tamb < 50°C	T4A	90°C
CHL07LC4U	4 ft	54W	120V - 277V 50/60 Hz	7286	135	85	4127	-40°C < Tamb < 55°C	T4A	90°C
CHL07LC4U-EM	4 ft	41W		4906	120	85	4115	0°C < Tamb < 45°C	T6	90°C
CHL07LC4U-HL	4 ft	61W		8154	133	84	4135	-40°C < Tamb < 50°C	T4A	90°C
CHL07LC4U-HA	4 ft	41W		4906	120	85	4115	-40°C < Tamb < 65°C	T5	90°C
CHL07LC4N	4 ft	54W	347V - 480V 50/60 Hz	7286	135	85	4127	-40°C < Tamb < 50°C	T4A	90°C



**1**  
SERIES

CHL= Hazardous and Marine Locations

**2**  
LAMP WATTAGE

07 = 80 Watt (4 foot)  
04 = 40 Watt (2 foot)

**3**  
LAMP TYPE

L = LED (4000K CCT)

**4**  
LENS

C = Clear  
D = Diffused

**5**  
NOMINAL FIXTURE LENGTH

2 = 2 Foot  
4 = 4 Foot

**6**  
VOLTAGE/FREQUENCY

U = 120 - 277V 50/60HZ  
N = 347/480V 60HZ  
A = 120V 60HZ<sup>2</sup>  
B = 220 - 240V 50/60HZ<sup>2</sup>  
C = 277V 60HZ<sup>2</sup>

**7**  
OPTIONS

SMK = Shock Mounting Brackets  
WMB = Wall Mounting Brackets  
ADJ = Adjustable Ceiling/Wall Brackets  
SC = Safety Cable  
HA = High Ambient 65°C Rated (4 ft. Model Only)<sup>1</sup>  
EM = Emergency Battery Backup<sup>1</sup> (Reduced Lumens, 45°C Rated)  
FB = Fuse Block<sup>2</sup>  
30 = 3000K CCT  
35 = 3500K CCT  
50 = 5000K CCT  
HL = High Lumen 50°C Rated<sup>1</sup>

1 Not available in 347/480V, type HA or HL options  
2 Specify voltage when option FB is needed. When option FB is selected, one fuse is provided for 120 and 277V. Two fuses are provided for 220-240V. Fuse option not available for marine listed fixtures, or for fixtures listed for use in Canada.

Part numbering logic is for explaining part number structure only. Not all combinations are possible; consult factory for catalog numbers not listed on chart.



### FEATURES & SPECIFICATIONS

**INTENDED USE** — The CLX is a linear lighting solution that is available in multiple lengths, lumen packages and distributions. Designed for versatility, the CLX can address virtually any indoor lighting need. The CLX is also offered in standard and high efficacy configurations and capable of being continuous row mounted or installed as a stand-alone fixture. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

**CONSTRUCTION** — Channel and cover are formed from code-gauge cold-rolled steel. Finish: Paint options include high-gloss, baked white polyester (WH), galvanized (GALV), matte black (MB) and smoke gray (SKGY). Five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance. Housing and lens endcaps are injection molded plastic to provide a more architectural look and feel. The endcaps come standard with a knock out for continuous mounting but can be ordered without.

**OPTICS** — Offered in lens and less lens configurations. Provides a choice of optical distributions including, wide, narrow, and aisle.

**ELECTRICAL** — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR ordering information on page 8.) Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), multi-volt input and 0-10V dimming standard. This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

Enabled with Atrius™ - The CLX is enabled with Atrius™, making it part of the Atrius™ Sensory Network and ready to deliver valuable data and connectivity to the Atrius™ Platform. For more information concerning Atrius™ solutions, please refer to [www.acuitybrands.com/atrius](http://www.acuitybrands.com/atrius).

LEDs provide nominal 80 CRI or 90CRI at 3000 K, 3500 K, 4000 K, or 5000 K.

Lumen output up to 2,500 lumens per foot.

**INSTALLATION** — Fixture may be ceiling or wall mounted (with or without THCLX hanger or angle mounted with CLXANGBRT), pendant or stem mounted with appropriate mounting options.

**LISTINGS** — CSA certified to US and Canadian safety standards. For use in damp locations between -4°F (-20°C) and 104°F (40°C). Optional High Ambient (HA) ranging to 122°F (50°C) available on certain lumen packages.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Stock configurations are offered for shorter lead times:

Stock Part Number	UPC
CLX L48 3000LM SEF FDL MD MVOLT GZ10 40K 80CRI WH	00191723525816
CLX L48 3000LM SEF FDL MD MVOLT GZ10 50K 80CRI WH	00191723525885
CLX L48 5000LM SEF FDL MD MVOLT GZ10 40K 80CRI WH	00191723525939
CLX L48 5000LM SEF FDL MD MVOLT GZ10 50K 80CRI WH	00191723525908
CLX L96 6000LM SEF FDL MD MVOLT GZ10 40K 80CRI WH	00191723525861
CLX L96 6000LM SEF FDL MD MVOLT GZ10 50K 80CRI WH	00191723525915
CLX L96 10000LM SEF FDL MD MVOLT GZ10 40K 80CRI WH	00191723525922
CLX L96 10000LM SEF FDL MD MVOLT GZ10 50K 80CRI WH	00191723525830
CLX L48 3000LM SEF RDL MD MVOLT GZ10 40K 80CRI WH	00191723525960
CLX L48 3000LM SEF RDL MD MVOLT GZ10 50K 80CRI WH	00191723525892
CLX L48 5000LM SEF RDL MD MVOLT GZ10 40K 80CRI WH	00191723525854
CLX L48 5000LM SEF RDL MD MVOLT GZ10 50K 80CRI WH	00191723525946
CLX L96 6000LM SEF RDL MD MVOLT GZ10 40K 80CRI WH	00191723525878
CLX L96 6000LM SEF RDL MD MVOLT GZ10 50K 80CRI WH	00191723525823
CLX L96 10000LM SEF RDL MD MVOLT GZ10 40K 80CRI WH	00191723525953
CLX L96 10000LM SEF RDL MD MVOLT GZ10 50K 80CRI WH	00191723525847

LED Linear

# CLX

24", 36", 48" and 96" Lengths



Flat Diffuse Lens

Round Diffuse Lens

Wide Diffuse Lens



ENABLED WITH  
ATRIUS™

### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a **shaded background**\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details



# CLX LED Linear

**ORDERING INFORMATION** Lead times will vary depending on options selected. Consult with your sales representative. **Example:** CLX L48 5000LM SEF WDL MVOLT GZ10 40K 80CRI WH

Series	Length	Nominal lumens <sup>1</sup>	Performance package	Louver	Lens
CLX LED linear	L24 24" <sup>1,2,3</sup>	1500LM 1,500 lumens	SEF Standard efficiency <sup>4</sup>	(Blank) Less louver	L/Lens Less lens <sup>6</sup>
		2000LM 2,000 lumens	HEF Premium efficiency	SBLW Straight blade louver, white <sup>5</sup>	FDL Flat diffuse <sup>7,8,9</sup>
		2500LM 2,500 lumens		SBLMB Straight blade louver, matte black <sup>5</sup>	RDL Round diffuse <sup>7,8,9</sup>
		3500LM 3,500 lumens		SBLGV Straight blade louver, galvanized <sup>5</sup>	WDL Wide diffuse <sup>7,8</sup>
		4500LM 4,500 lumens		SBSKGY Straight blade louver, smoke gray <sup>5</sup>	
	L36 36" <sup>1,3</sup>	2250LM 2,250 lumens			
		3000LM 3,000 lumens			
		3750LM 3,750 lumens			
		5250LM 5,250 lumens			
		6750LM 6,750 lumens			
	L48 48" <sup>1</sup>	3000LM 3,000 lumens			
		4000LM 4,000 lumens			
		5000LM 5,000 lumens			
		7000LM 7,000 lumens <sup>3</sup>			
		9000LM 9,000 lumens <sup>3</sup>			
	L96 96"	10000LM 10,000 lumens <sup>1,3</sup>			
		6000LM 6,000 lumens			
		8000LM 8,000 lumens			
		10000LM 10,000 lumens			
		14000LM 14,000 lumens <sup>3</sup>			
		18000LM 18,000 lumens <sup>3</sup>			
		20000LM 20,000 lumens <sup>1,3</sup>			

Distribution	Voltage	Driver	Color temperature	Coloring rendering index
(Blank) General	MVOLT 120-277V	277 277V	30K 3000 K	80CRI 80 CRI
ND Narrow <sup>8</sup>	120 120V	347 347V <sup>10</sup>	35K 3500 K	90CRI 90 CRI
WD Wide <sup>8</sup>	208 208V	480 480V <sup>10</sup>	40K 4000 K	
AD2 Aisle, 24" off center <sup>8</sup>	240 240V	EOHN EldoLED dimming <sup>12,14</sup>	50K 5000 K	

Options	Finish
PS1050 Emergency battery pack, not available with BGD <sup>15</sup>	WH White
BGTD Generator transfer device, not available with PS1050 <sup>15</sup>	GALVW Galvanized with white lens end caps
OCS 5', 18/3 Reloc selectable One Pass cable <sup>16</sup>	GALVB Galvanized with black lens end caps
HA Hlgh ambient, for use in ambient temperatures up to 50°C <sup>17</sup>	MB Matte black
EPNKO Decorative endplate, no knock out	SKGYW Smoke gray with white lens end caps
OUTCTR Wiring leads pulled through back center of fixture	SKGYB Smoke gray with black lens end caps
OUTEND Wiring leads pulled through end of fixture	
CS1W Straight blade plug, 120V <sup>16</sup>	
CS3W NEMA twist-lock plug, 120V <sup>16</sup>	
CS7W Straight blade plug, 277V <sup>16</sup>	
CS11W NEMA twist-lock plug, 277V <sup>16</sup>	
CS25W NEMA twist-lock plug, 347V <sup>16</sup>	
CS97W NEMA twist-lock plug, 480V <sup>16</sup>	
CS93W 600V SE00W white cord, no plug (no voltage required)	
CS6616STOWD5D 6' white cord, 16/5, no plug, includes low voltage dimming wires	
PLR___ Plug-in wiring, see page 9 for ordering information	
PLR1LVG Plug-in wiring, low voltage dimming	
RRL___ RELOC-ready luminaire. See page 8 for ordering information	
SPD Surge protection device, provides up to 6kv protection <sup>16</sup>	
<b>Individual controls:</b>	
MSD7 PIR integral occupancy sensor	
MSDPDT7 PDT 7 dual technology integral occupancy control	
MSD7ADC PIR integral occupancy sensor with automatic dimming control photocell	
MSDPDT7ADC PDT integral occupancy sensor with automatic dimming control photocell	
<b>Xpoint™ Wireless:</b>	
XAD XPoint™ Wireless 0-10V relay, internal, lower max ambient <sup>18</sup>	
XAD924 XPoint™ Wireless 0-10V relay, internal, lower max ambient with emergency relay (UL924 compliant) <sup>18</sup>	
<b>Enabled with Atrius™:</b>	
AE1CD Atrius™ enabled, platform 1, VLC and bluetooth positioning, digital driver <sup>8,8</sup>	
<b>nLight® Wired Networking:</b>	
N100 nLight® without lumen management	
NES7 nLight® nES 7 PIR integral occupancy sensor	
NESPD7 nLight® nES PDT 7 dual technology integral occupancy control	
NES7ADCX nLight® nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell	
NESPD7ADCX nLight® nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell	
<b>nLight® Wireless Networking:</b>	
RES7N nLight® AIR PIR integral occupancy sensor with automatic dimming photocell for networking capabilities <sup>19</sup>	
<b>nLight® Wireless Zone:</b>	
RES7Z nLight Air PIR integral occupancy sensor with automatic dimming photocell for zone control <sup>19</sup>	

See Accessories and footnotes on next page



## CLX LED Linear

Accessories: Order as separate catalog number.					
ZACVH	Aircraft cable 120" (one pair)	THCLX ___	Tong hanger (Must specify color) (one pair)	CLXRW96	Wide decorative 96" reflector
ZAC120	One adjustable aircraft cable with canopy 120"	CLXANGBKT ____	Angle bracket, (one pair)	CLXRWU24	Wide decorative 24" reflector with uplight
ZACFP120	One adjustable aircraft cable with feed (3 conductor) and canopy, 120"	HC36	Hanger chain, 36" (one pair)	CLXRWU36	Wide decorative 36" reflector with uplight
ZACFPD120	One adjustable aircraft cable with feed (5 conductor) and canopy 120"	LSXR	Sensor Switch ® LSXR occupancy sensor	CLXRWU48	Wide decorative 48" reflector with uplight
ZAC240	One adjustable aircraft cable with canopy 240"	NPP16D	nLight® switching/dimming module	CLXRWU96	Wide decorative 96" reflector with uplight
ZACFP240	One adjustable aircraft cable with feed (3 conductor) and canopy, 240"	NPP16DER	nLight® switching/dimming module with emergency relay	CLXRN24	Narrow 24" reflector <sup>19</sup>
ZACFPD240	One adjustable aircraft cable with feed (5 conductor) and canopy 240"	XPA CMRBO	XPoint™ Wireless 0-10V relay, external, 55°C max ambient	CLXRN36	Narrow 36" reflector <sup>19</sup>
SQ_	Stem kit, 2" increments up to 48"	CLXRW24	Wide decorative 24" reflector	CLXRN48	Narrow 48" reflector <sup>19</sup>
		CLXRW36	Wide decorative 36" reflector	CLXRN96	Narrow 96" reflector <sup>19</sup>
		CLXRW48	Wide decorative 48" reflector	WGCLX24	24" wireguard, white <sup>20</sup>
				WGCLX36	36" wireguard, white <sup>20</sup>
				WGCLX48	48" wireguard, white, 96" fixture requires two <sup>20</sup>

### Notes

- Not available with EOHN, AE1CD, or AE1BA options.
- Not available with OUTCTR option.
- Not available with HA option.
- Not available with EZ1 when ordered with L24 with 5000LM or L36 with 7500LM.
- Only available with L24 when ordered with 1500LM or 2000LM and with GZ10 driver. Not for use with THCLX, CLXANGBKT or WGCLX accessories. Not available L/LENS or with RDL lens options.
- Not available with EOHN or AE1CD.
- Only available with general distribution.
- Not available with CLXRN accessories.
- Not available with EOHN or AE1CD.
- Voltage selected utilizes a step-down transformer. Not available with L24 when ordered with N100.
- When continuous row mounting, fixtures must all have the same driver selection.
- Not available with N100, Enabled with Atrius, Individual controls, nLight wired networking, nLight wireless networking, nLight wireless zone control options.
- Not available with HA options.
- Requires SPD option. Not available with HA option.
- Must specify voltage.
- Not available with PS1050, BGTD, XAD or XAD924 options.
- Requires SPD option.
- Not available with L96 14000LM, 18000LM, or 20000LM
- For use with L/LENS only.
- Not for use with CLX reflector accessories.

**Enabled with Atrius™ Notes**

A Not available with L48 10000LM, L96 20000LM, L24 or L36. Not available with Individual controls, nLight wired networking, nLight wireless networking, nLight wireless zone control options. Not available with SBL lovers or WGCLX\_ wire guard accessories.

B Available with EOHN driver only.

## POWER SENTRY EMERGENCY BATTERY PACKS

PS1050	<a href="https://www.acuitybrands.com/products/detail/369448/Power-Sentry/PS1050/Reduced-Profile-LED-Emergency-Battery-Pack">https://www.acuitybrands.com/products/detail/369448/Power-Sentry/PS1050/Reduced-Profile-LED-Emergency-Battery-Pack</a>	Factory installable
PS1055LCP	<a href="https://www.acuitybrands.com/products/detail/755258/Power-Sentry/PS1055LCP-Battery-Pack/Constant-Power-Field-Installable-LED-Emergency-Driver">https://www.acuitybrands.com/products/detail/755258/Power-Sentry/PS1055LCP-Battery-Pack/Constant-Power-Field-Installable-LED-Emergency-Driver</a>	Field installable, remote mount only
PS1555LCP	<a href="https://www.acuitybrands.com/products/detail/755258/Power-Sentry/PS1055LCP-Battery-Pack/Constant-Power-Field-Installable-LED-Emergency-Driver">https://www.acuitybrands.com/products/detail/755258/Power-Sentry/PS1055LCP-Battery-Pack/Constant-Power-Field-Installable-LED-Emergency-Driver</a>	Field installable, remote mount only

## EMERGENCY LUMENS

Efficiency Package	SEF	HEF
PS1050	1400	1500
PS1055LCP	1400	1500
PS1555LCP	2000	2100

**Note:** For emergency lumen output of specific model, please consult factory.

## CLX LED Linear

### CLX OPERATIONAL DATA

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage
					Color Temperature				
					3000K	3500K	4000K	5000K	
FDL	L24	2500LM	SEF	80	2307	2372	2437	2495	18.41
		5000LM	SEF	80	4722	4855	4989	5107	41.48
	L36	3750LM	SEF	80	3536	3636	3736	3825	26.47
		7500LM	SEF	80	6652	6840	7027	7194	62.6
	L48	5000LM	SEF	80	4451	4576	4702	4813	34.8
		10000LM	SEF	80	9082	9338	9594	9822	73.37
L96	10000LM	SEF	80	8649	8893	9137	9354	66.47	
	20000LM	SEF	80	17976	18484	18991	19442	146.83	
RDL	L24	2500LM	SEF	80	2374	2441	2508	2568	18.41
		5000LM	SEF	80	4860	4997	5135	5256	41.48
	L36	3750LM	SEF	80	3640	3742	3845	3936	26.47
		7500LM	SEF	80	6846	7040	7233	7404	62.6
	L48	5000LM	SEF	80	4581	4710	4839	4954	34.8
		10000LM	SEF	80	9347	9611	9875	10109	73.37
L96	10000LM	SEF	80	8902	9153	9404	9628	66.47	
	20000LM	SEF	80	18502	19024	19546	20010	146.83	
WDL	L24	2500LM	SEF	80	2405	2473	2541	2601	18.41
		5000LM	SEF	80	4924	5063	5201	5325	41.48
	L36	3750LM	SEF	80	3687	3791	3895	3988	26.47
		7500LM	SEF	80	6936	7131	7327	7501	62.6
	L48	5000LM	SEF	80	4640	4771	4902	5019	34.8
		10000LM	SEF	80	9469	9736	10003	10241	73.37
L96	10000LM	SEF	80	9018	9272	9527	9753	66.47	
	20000LM	SEF	80	18743	19272	19801	20271	146.83	

### LUMENS VS. AMBIENT TEMPERATURE

Ambient °C	Ambient °F	Lumen Multiplier
0	32	1.013
5	41	1.012
10	50	1.011
20	68	1.005
25	77	1
30	86	0.995
35	95	0.989
40	104	0.983
45	113	0.979
50	122	0.971
55	131	0.965

## CLX LED Linear

### CLX CHARACTERISTICS

Nominal Lumen Package	Length	Wattage								Length	Width	Depth	Comparable Light Source
		Standard efficiency				High efficiency							
		120V	277V	347V	480V	120V	277V	347V	480V				
Dimensions are shown in inches													
2500LM	24"	19.9	19.9	25.9	25.9	18.5	18.5	24.5	24.5	24	3.5	3.75	1-lamp 32WT8, 1-lamp 54W T5HO, 50W HID
5000LM	24"	41.9	41.9	47.9	47.9	37.9	37.9	43.9	43.9	24	3.5	3.75	2-lamp 32WT8, 1-lamp 54W T5HO, 70W HID
3750LM	36"	28.1	28.1	34.1	34.1	27.0	27.0	33.0	33.0	36	3.5	3.75	1-lamp 32WT8, 1-lamp 54W T5HO, 50W HID
7500LM	36"	62.9	62.9	68.9	68.9	56.8	56.8	62.8	62.8	36	3.5	3.75	2-lamp 32WT8, 1-lamp 54W T5HO, 70W HID
5000LM	48"	35.4	35.4	41.4	41.4	32.9	32.9	38.9	38.9	48	3.5	3.75	2-lamp 32WT8, 1-lamp 54W T5HO, 70W HID
10000LM	48"	77.1	77.1	83.1	83.1	70.4	70.4	76.4	76.4	48	3.5	3.75	3-lamp 32WT8, 2-lamp 54W T5HO, 100W HID
10000LM	96"	70.8	70.8	76.8	76.8	65.8	65.8	71.8	71.8	96	3.5	3.75	3-lamp 32WT8, 2-lamp 54W T5HO, 100W HID
20000LM	96"	154.2	154.2	160.2	160.2	140.8	140.8	146.8	146.8	96	3.5	3.75	6-lamp 32WT8, 4-lamp 54W T5HO, 200W HID

### PROJECTED LUMEN MAINTENANCE

CLX						
Operating hours	0	15,000	30,000	45,000	60,000	100,000
Lumen maintenance factor	1	0.971	0.944	0.918	0.893	0.83

### AMBIENT TEMPERATURE RATINGS

	Driver Lumen package Type	Driver	THCLX	Direct Surface	HEF	Direct Surface	Driver	Direct Surface	THCLX	Suspended 18"	Xpoint/BGTD Direct Surface	PS1050 Suspended
L24	1500LM	GZ10	40C	40C		N/A	EZ1 or E0HN	35C	35C	35C	35C	25C
	2000LM	GZ10	40C	40C		N/A	EZ1 or E0HN	35C	35C	35C		
	2500LM	GZ10	40C	40C		N/A	EZ1 or E0HN	35C	35C	35C		
	3000LM	GZ10	40C	40C		N/A	EZ1 or E0HN	40C	40C	40C		
	4500LM	GZ10	40C	40C		N/A	EZ1 or E0HN	35C	35C	40C		
	5000LM	GZ10	40C	40C		N/A	EZ1 or E0HN	25C	30C	35C		
L36	2250LM	GZ10	40C	40C		N/A	EZ1 or E0HN	40C	40C	40C		
	3000LM	GZ10	40C	40C		N/A	EZ1 or E0HN	40C	40C	40C		
	3750LM	GZ10	40C	40C		N/A	EZ1 or E0HN	40C	40C	40C		
	5250LM	GZ10	40C	40C		N/A	EZ1 or E0HN	35C	35C	40C		
	6750LM	GZ10	40C	30C		N/A	EZ1 or E0HN	35C	35C	40C		
	7500LM	GZ10	40C	30C		N/A	EZ1 or E0HN	25C	30C	35C		
L48	3000LM	GZ10	40C	40C	GZ10	50C	EZ1 or E0HN	40C	40C	40C		
	4000LM	GZ10	40C	40C	GZ10	50C	EZ1 or E0HN	40C	40C	40C		
	5000LM	GZ10	40C	40C	GZ10	50C	EZ1 or E0HN	35C	35C	40C		
	7000LM	GZ10	40C	30C		N/A	EZ1 or E0HN	35C	35C	40C		
	9000LM	GZ10	40C	30C		N/A	EZ1 or E0HN	25C	30C	35C		
	10000LM	GZ10	40C	30C		N/A	EZ1 or E0HN	25C	30C	35C		
L96	6000LM	GZ10	40C	40C	GZ10	50C	EZ1 or E0HN	35C	35C	40C		
	8000LM	GZ10	40C	30C	GZ10	50C	EZ1 or E0HN	35C	35C	40C		
	10000LM	GZ10	40C	30C	GZ10	50C	EZ1 or E0HN	25C	30C	35C		
	14000LM	GZ10	40C	40C		N/A	EZ1 or E0HN	35C	35C	40C		
	18000LM	GZ10	40C	30C		N/A	EZ1 or E0HN	25C	30C	35C		
	20000LM	GZ10	40C	30C		N/A	EZ1 or E0HN	25C	30C	35C		

# CLX LED Linear

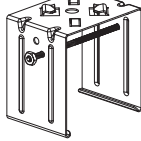
## DIMENSIONS

All dimensions are in inches (centimeters) unless otherwise indicated.  
 Dimensions may vary with options or accessories.

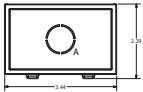
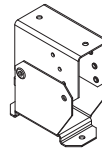
## PALLET DIMENSIONS

Length	Approx Weight	Fixtures per pallet	Pallet Dims (L X W X H)
L24	4 lb	100	54x46x37
L36	5 lb	80	54x46x37
L48	7.5 lb	64	54x46x37
L96	14 lb	64	98x46x37

THCLX - SHIPS TWO PER ORDER,  
 UTILIZES A #8 HEX HEAD SCREW AND NUT  
 FIXTURE SITS 1.3 INCHES FROM STRUCTURE WHEN MOUNTED

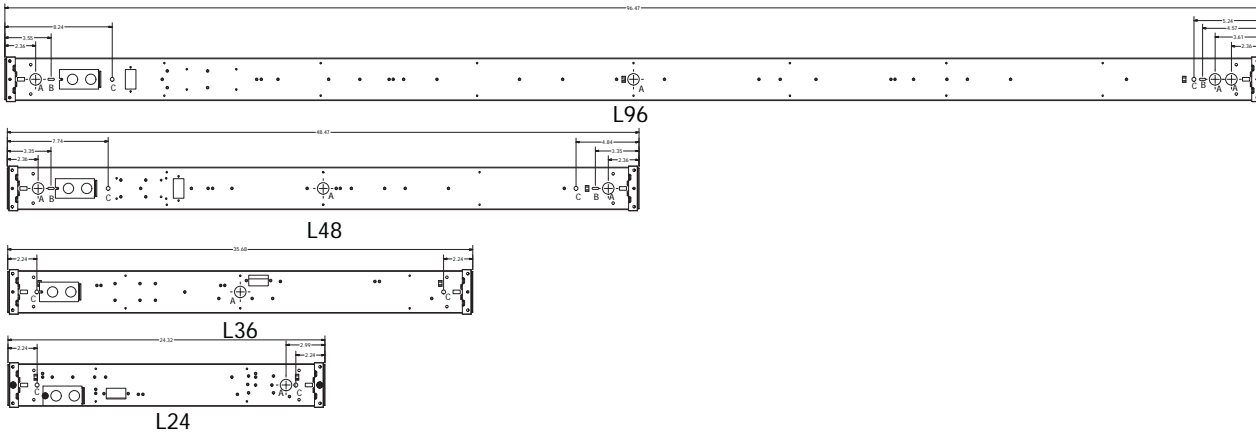


CLXANGBKT - SHIPS TWO PER ORDER  
 HOLES TO MOUNTING STRUCTURE ARE 0.175" DIA, 2.5" APART  
 FIXTURE SITS APPROXIMATELY 3.5" FROM STRUCTURE  
 WHEN MOUNTED HORIZONTAL TO STRUCTURE



INTEGRATED SENSOR ADDS 4.75 INCHES TO STANDALONE FIXTURE LENGTH  
 HOUSING END CAP ADDS 0.236 INCHES TO FIXTURE LENGTH PER SIDE

A - 7/8" KNOCK OUT  
 B - 0.5" by 0.16" SLOT  
 C - 0.3" DIA HOLE



## PHOTOMETRICS

See [www.lithonia.com](http://www.lithonia.com).

## CLX LED Linear

### RRL - RELOC®-Ready Luminaire

- RRL connectors can be used with Quick-Flex®, System 820 and OnePass® systems.
- Load side of connector factory installed to luminaire.
- 4-pole mating connector with push-in terminations allows for simple installation.
- Touch-safe design on both halves meets UL/CSA requirement.
- Wiping contact design allows safe disconnect under load.



**ORDERING INFORMATION** Lead times will vary depending on options selected. Consult with your sales representative. **Example: RRLA**

Series	Wiring instructions
RRL RELOC®-ready luminaire	A Hot conductor wired to position #1 (phase A) B Hot conductor wired to position #2 (phase B) C Hot conductor wired to position #3 (phase C) <sup>1</sup>

### Compatible RELOC® Cables for Industrial Luminaires (ordered and shipped separately)



**Notes**

- <sup>1</sup> C, ABE, and C125 options are not used with Quick-Flex QFC, QSFC, QPT, and QD.

## CLX LED Linear

### PRODUCT INFORMATION

Advanced plug-in system with three-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLR22 (2-circuit) and PLR33 (3-circuit) crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Note: Specifications subject to change without notice.



# PLR

Wiring

Advanced 3-Circuit Plug-In

**ORDERING INFORMATION** Lead times will vary depending on options selected. Consult with your sales representative.

Series	Number of hot wires	Branch circuits	Dimming	Ground
PLR	(blank) Not required for 22 or 33	<u>Circuits to which ballast is connected</u>	LV Low-voltage dimming	(blank) No ground in PLR
PLR22	1 Black	(blank) Not required for 22 or 33		G Ground. Maximum 2 circuits
PLR33	2 Black and red	A Black wire		
	3 Black, red and blue	B Red wire	ELA Emergency circuit wired to black wire	
		C Blue wire	ELB Emergency circuit wired to red wire ELC Emergency circuit wired to blue wire	

### Typical Applications

- Multiple-circuit and single-circuit for longer continuous rows
- Multiple-circuit with alternating fixtures on separate circuits, 2-circuit (PLR 22) and 3-circuit (PLR 33)
- Multiple circuit with night-lights located along row as desired

TYPICAL APPLICATIONS										
PLR 3 C	PLR 3 C	PLR 3 C	PLR 3 C	PLR 2 B	PLR 2 B	PLR 2 B	PLR 2 B	PLR 1	PLR 1	PLR 1
(All PLR22)										
Circuit A	Circuit B	Circuit A	Circuit B	Circuit A	Circuit B	Circuit A	Circuit B	Circuit A	Circuit B	Circuit A
(All PLR33)										
Circuit A	Circuit B	Circuit C	Circuit A	Circuit B	Circuit C	Circuit A	Circuit B	Circuit C	Circuit A	Circuit B
PLR 3 A	PLR 3 A	PLR 3 A	PLR 3 C	PLR 3 B	PLR 3 B	PLR 3 B	PLR 3 C	PLR 3 A	PLR 3 A	PLR 3 A

### PRODUCT INFORMATION

A standard occupancy time delay is also present to ensure lights turn off (once minimum on timer has also elapsed) if no occupancy is detected.

This timer is factory set at 10 minutes to promote energy savings, but is adjustable between 30 seconds and 30 minutes. These adjustments may be done through the unit's push-button.

### FEATURES

- Four interchangeable lenses - high mount 360°, low mount 360°, high mount aisleway, and small motion 360°.
- Integrated mounting bracket drops lens down 3" from chase nipple - no bracket accessory required.
- 100% digital PIR detection - provides excellent RF immunity

Note: Specifications subject to change without notice.



# LSXR

Single Relay



Passive Infrared Indoor Occupancy Sensor

**ORDERING INFORMATION** Lead times will vary depending on options selected. Consult with your sales representative.

Example: LSXR 10 ADC HVOLT 30M

Series	Lens option	Dimming/photozell
LSXR Passive Infrared Indoor Occupancy Sensor	(blank) No lens 6 High mount, 360° 10 Low mount, 360° 50 High mount aisleway 9 Small motion, 360°	610 High and low mount 360° 650 High mount 360° and aisleway 3PK High and low mount 360° and aisleway 4PK All lenses
		(blank) None HL High/low occupancy operation P Switching photocell (on/off) ADC Dimming and switching photocell ANL Dimming and switching photocell with high/low occupancy operation

Voltage	Max dim level	Min dim level	Lead length	Temp humidity	Default time delay
(blank) 120-277 VAC (MVOLT)	(blank) 10 VDC 9H 9 VDC	(blank) Minimum dimming level of ballast 1V 1 VDC	(blank) 14" 42L 42"	(blank) None LT Low temperature	(blank) 10 minutes (with minimum 15 minutes on time)
HVOLT 347-480 VAC	8H 8 VDC 7H 7 VDC	2V 2 VDC 3V 3 VDC 4V 4 VDC 5V 5 VDC 6V 6 VDC			5M 5 minutes (LED only) 15M 15 minutes 20M 20 minutes 30M 30 minutes

For additional information see [www.lithonia.com](http://www.lithonia.com)

## CLX LED Linear

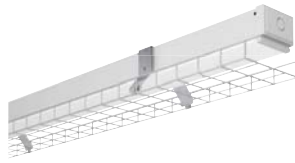
### OPTIONS AND ACCESSORIES



**Narrow reflector**  
Ships separately from fixture.  
Order as:  
CLXRN24  
CLXRN36  
CLXRN48  
CLXRN96



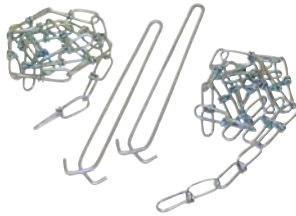
**Wide decorative reflector**  
Ships separately from fixture.  
Order as:  
CLXRW24  
CLXRW36  
CLXRW48  
CLXRW96



**Wireguard**  
Ships separately from fixture:  
96" fixture requires two WGCLX48.  
Order as:  
WGCLX24  
WGCLX36  
WGCLX48



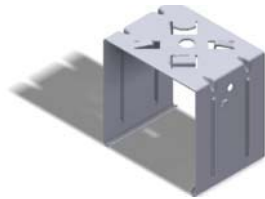
**Aircraft Cable with Canopy**  
Available in 120" or 240"  
Order as:  
ZAC120  
ZAC240



**HANGER CHAIN**  
36" chain with Y hanger. ships as a pair  
Order as:  
HC36



**ZACVH HANGER**  
10' Aircraft cable with Y hanger.  
Order as:  
ZACVH



**Tong hanger**  
Ships as a pair  
Order As:  
THCLX





# D-Series Size 1 LED Wall Luminaire



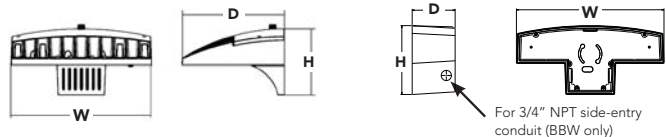
d-series

## Specifications Luminaire

**Width:** 13-3/4" (34.9 cm) **Weight:** 12 lbs (5.4 kg)  
**Depth:** 10" (25.4 cm)  
**Height:** 6-3/8" (16.2 cm)

## Back Box (BBW, ELCW)

**Width:** 13-3/4" (34.9 cm) **BBW Weight:** 5 lbs (2.3 kg)  
**Depth:** 4" (10.2 cm) **ELCW Weight:** 10 lbs (4.5 kg)  
**Height:** 6-3/8" (16.2 cm)



## Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

## Ordering Information

**EXAMPLE:** DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSXW1 LED														
Series	LEDs	Drive Current		Color temperature		Distribution		Voltage	Mounting	Control Options	Other Options	Finish (required)		
DSXW1 LED	10C 10 LEDs (one engine)	350	350 mA	30K	3000 K	T2S	Type II	MVOLT <sup>1</sup>	Shipped included (blank) Surface mounting bracket	Shipped installed PE Photoelectric cell, button type <sup>4</sup>	SF Single fuse (120, 277 or 347V) <sup>7</sup>	DDBXD	Dark bronze	
		530	530 mA	40K	4000 K	Short	120 <sup>1</sup>	208 <sup>1</sup>						
	20C 20 LEDs (two engines)	700	700 mA	50K	5000 K	T2M	Type II	240 <sup>1</sup>	BBW Surface-mounted back box (for conduit entry) <sup>3</sup>	DMG 0-10V dimming driver (no controls)	DF Double fuse (208, 240 or 480V) <sup>7</sup>	DDBTXD	Sandstone	
		1000	1000 mA (1 A)	AMBPC	Amber phosphor converted	Short	277 <sup>1</sup>	347 <sup>2</sup>						
						T3S	Type III	480 <sup>2</sup>		PIR 180° motion/ambient light sensor, <15' mtg ht <sup>5</sup>	HS House-side shield <sup>8</sup>	DDBTXD	Textured dark bronze	
					Medium	T3M	Type III							
						T4M	Type IV			PIRH 180° motion/ambient light sensor, 15-30' mtg ht <sup>5</sup>	SPD Separate surge protection <sup>9</sup>	DDBTXD	Textured black	
						TFTM	Forward Throw							
						Medium	ASVDF	Asymmetric diffuse		ELCW Emergency battery backup (includes external component enclosure) <sup>6</sup>	Shipped separately	BSW Bird-deterrent spikes	DDBTXD	Textured natural aluminum
											WG Wire guard	DWHGXD	Textured white	
										VG Vandal guard	DSSTXD	Textured sandstone		
										DDL Diffused drop lens				

### NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
- Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- PIR specifies the Sensor Switch SBGR-10-ODP control; PIRH specifies the Sensor Switch SBGR-6-ODP control; see Motion Sensor Guide for details. Includes ambient light sensor. Not available with "PE" option (button type photocell). Dimming driver standard. Not available with 20 LED/1000 mA configuration (DSXW1 LED 20C 1000).
- Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at [www.lithonia.com](http://www.lithonia.com)
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option. Not available with ELCW.
- Also available as a separate accessory; see Accessories information.
- See the electrical section on page 3 for more details.

## Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXBWSW U	Bird-deterrent spikes
DSXW1WG U	Wire guard accessory
DSXW1VG U	Vandal guard accessory

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K					40K					50K					AMBER					
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	
10C (10 LEDs)	530mA	20 W	T2S	1,843	1	0	1	92	1,956	1	0	1	98	1,729	1	0	1	86	1,264	0	0	1	63	
			T2M	1,756	1	0	1	88	1,864	1	0	1	93	1,648	1	0	1	82	1,205	0	0	1	60	
			T3S	1,822	0	0	1	91	1,934	0	0	1	97	1,710	0	0	1	86	1,250	0	0	1	63	
			T3M	1,804	1	0	1	90	1,914	1	0	1	96	1,693	1	0	1	85	1,237	0	0	1	62	
			T4M	1,767	1	0	1	88	1,876	1	0	1	94	1,658	0	0	1	83	1,212	0	0	1	61	
			TFTM	1,837	0	0	1	92	1,950	0	0	1	98	1,724	0	0	1	86	1,260	0	0	1	63	
	700mA	27 W	ASDF	1,642	1	0	1	82	1,743	1	0	1	87	1,541	1	0	1	77	1,127	0	0	1	56	
			T2S	2,272	1	0	1	84	2,409	1	0	1	89	2,421	1	0	1	90	1,544	0	0	1	57	
			T2M	2,165	1	0	1	80	2,296	1	0	1	85	2,307	1	0	1	85	1,472	0	0	1	55	
			T3S	2,247	1	0	1	83	2,382	1	0	1	88	2,394	1	0	1	89	1,527	0	0	1	57	
			T3M	2,224	1	0	1	82	2,358	1	0	1	87	2,370	1	0	1	88	1,512	0	0	1	56	
			T4M	2,179	1	0	1	81	2,310	1	0	1	86	2,322	1	0	1	86	1,481	0	0	1	55	
	1000mA	40 W	TFTM	2,265	1	0	1	84	2,401	1	0	1	89	2,413	1	0	1	89	1,539	0	0	1	57	
			ASDF	2,025	1	0	1	75	2,147	1	0	1	80	2,158	1	0	1	80	1,376	1	0	1	51	
			T2S	3,011	1	0	1	75	3,190	1	0	1	80	3,202	1	0	1	80	2,235	1	0	1	58	
			T2M	2,870	1	0	1	72	3,040	1	0	1	76	3,051	1	0	1	76	2,130	1	0	2	55	
			T3S	2,978	1	0	1	74	3,155	1	0	1	79	3,166	1	0	1	79	2,210	1	0	2	57	
			T3M	2,948	1	0	1	74	3,123	1	0	1	78	3,134	1	0	1	78	2,187	1	0	2	56	
	20C (20 LEDs)	530mA	36 W	T4M	2,888	1	0	1	72	3,059	1	0	1	76	3,071	1	0	1	77	2,143	1	0	2	55
				TFTM	3,002	1	0	1	75	3,180	1	0	1	80	3,192	1	0	1	80	2,228	1	0	2	57
				ASDF	2,684	1	0	1	67	2,843	1	0	1	71	2,854	1	0	1	71	1,991	1	0	2	51
				T2S	3,649	1	0	1	101	3,876	1	0	1	108	3,429	1	0	1	95	2,504	1	0	1	70
				T2M	3,478	1	0	1	97	3,694	1	0	1	103	3,267	1	0	1	91	2,387	1	0	1	66
				T3S	3,609	1	0	1	100	3,833	1	0	1	106	3,390	1	0	1	94	2,477	1	0	1	69
700mA		47 W	T3M	3,572	1	0	1	99	3,794	1	0	1	105	3,356	1	0	1	93	2,451	1	0	2	68	
			T4M	3,500	1	0	2	97	3,717	1	0	2	103	3,288	1	0	1	91	2,402	1	0	1	67	
			TFTM	3,638	1	0	1	101	3,864	1	0	1	107	3,418	1	0	1	95	2,496	1	0	1	69	
			ASDF	3,252	1	0	2	90	3,454	1	0	2	96	3,056	1	0	2	85	2,232	1	0	1	62	
			T2S	4,502	1	0	1	96	4,776	1	0	1	102	4,794	1	0	1	102	3,065	1	0	1	65	
			T2M	4,290	1	0	1	91	4,552	1	0	1	97	4,569	1	0	1	97	2,921	1	0	1	62	
1000mA	74 W	T3S	4,452	1	0	1	95	4,723	1	0	2	100	4,741	1	0	2	101	3,031	1	0	1	64		
		T3M	4,407	1	0	2	94	4,675	1	0	2	99	4,693	1	0	2	100	3,000	1	0	1	64		
		T4M	4,318	1	0	2	92	4,581	1	0	2	97	4,598	1	0	2	98	2,939	1	0	1	63		
		TFTM	4,488	1	0	2	95	4,761	1	0	2	101	4,779	1	0	2	102	3,055	1	0	1	65		
		ASDF	4,012	1	0	2	85	4,257	1	0	2	91	4,273	1	0	2	91	2,732	1	0	1	58		
		T2S	5,963	1	0	1	80	6,327	1	0	1	84	6,351	1	0	1	85	4,429	1	0	1	61		
			T2M	5,683	1	0	2	76	6,029	1	0	2	80	6,052	1	0	2	81	4,221	1	0	2	58	
			T3S	5,896	1	0	2	79	6,256	1	0	2	83	6,280	1	0	2	84	4,380	1	0	2	60	
			T3M	5,837	1	0	2	78	6,193	1	0	2	83	6,216	1	0	2	83	4,335	1	0	2	59	
			T4M	5,719	1	0	2	76	6,067	1	0	2	81	6,090	1	0	2	81	4,248	1	0	2	58	
			TFTM	5,944	1	0	2	79	6,307	1	0	2	84	6,330	1	0	2	84	4,415	1	0	2	60	
			ASDF	5,314	1	0	2	71	5,638	2	0	2	75	5,660	2	0	2	75	3,947	1	0	2	54	

## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.98

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the DSXW1 LED 20C 1000 platform in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.93	0.88

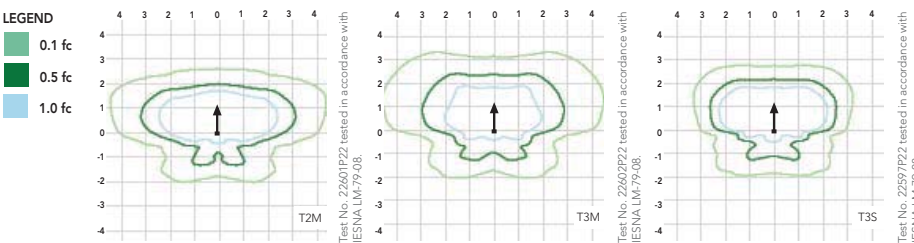
## Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120V	208V	240V	277V	347V	480V
10C	350	14 W	0.13	0.07	0.06	0.06	-	-
	530	20 W	0.19	0.11	0.09	0.08	-	-
	700	27 W	0.25	0.14	0.13	0.11	-	-
	1000	40 W	0.37	0.21	0.19	0.16	-	-
20C	350	25 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	0.15	0.11
	1000	75 W	0.69	0.40	0.35	0.30	0.23	0.17

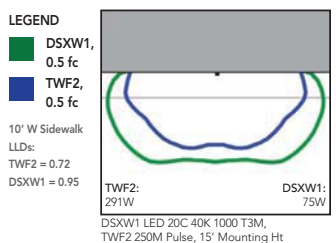
## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Wall Size 1 homepage.

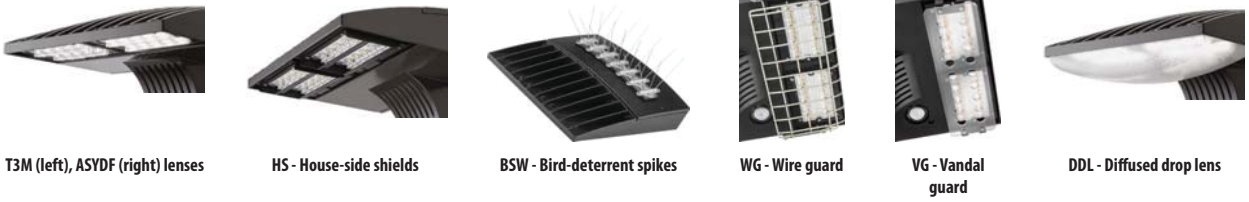
Isofootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



Distribution overlay comparison to 250W metal halide.



## Options and Accessories



## FEATURES & SPECIFICATIONS

### INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

### CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

### OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (80 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 CRI) configurations.

### ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a

power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

### INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

### LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

### WARRANTY

Five year limited warranty. Full warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.



# D-Series Size 1 LED Wall Luminaire



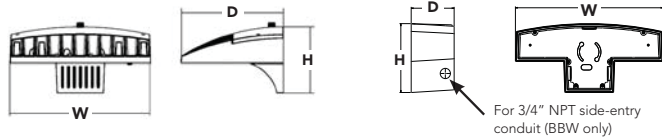
d-series

## Specifications Luminaire

**Width:** 13-3/4" (34.9 cm) **Weight:** 12 lbs (5.4 kg)  
**Depth:** 10" (25.4 cm)  
**Height:** 6-3/8" (16.2 cm)

## Back Box (BBW, ELCW)

**Width:** 13-3/4" (34.9 cm) **BBW Weight:** 5 lbs (2.3 kg)  
**Depth:** 4" (10.2 cm) **ELCW Weight:** 10 lbs (4.5 kg)  
**Height:** 6-3/8" (16.2 cm)



## Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

## Ordering Information

**EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD**

DSXW1 LED														
Series	LEDs	Drive Current		Color temperature		Distribution		Voltage	Mounting	Control Options	Other Options	Finish (required)		
DSXW1 LED	10C 10 LEDs (one engine)	350	350 mA	30K	3000 K	T2S	Type II	MVOLT <sup>1</sup>	Shipped included	Shipped installed	PE	SF	DDBXD	Dark bronze
				40K	4000 K	Short	120 <sup>1</sup>							
	20C 20 LEDs (two engines)	700	700 mA	50K	5000 K	T2M	Type II	208 <sup>1</sup>	BBW	Surface-mounted back box (for conduit entry) <sup>3</sup>	DMG	DF	DWHXD	White
				AMBPC	Amber phosphor converted	Medium	240 <sup>1</sup>	0-10V dimming driver (no controls)						
		1000	1000 mA (1 A)			T3S	Type III	277 <sup>1</sup>			PIR	HS	DDBTXD	Textured dark bronze
						Short	347 <sup>2</sup>	180° motion/ambient light sensor, <15' mtg ht <sup>5</sup>						
						T3M	Type III	480 <sup>2</sup>			PIRH	SPD	DBLBXD	Textured black
						Medium					180° motion/ambient light sensor, 15-30' mtg ht <sup>5</sup>	Separate surge protection <sup>9</sup>	DNATXD	Textured natural aluminum
						T4M	Type IV						Shipped separately	
						TFTM	Forward Throw						BSW	DWHGXD
					Medium							WG		
					ASVDF	Asymmetric diffuse				ELCW		VG	DSSTXD	Textured sandstone
										Emergency battery backup (includes external component enclosure) <sup>6</sup>		DDL		

- NOTES**
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
  - Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
  - Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
  - Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
  - PIR specifies the Sensor Switch SBGR-10-ODP control; PIRH specifies the Sensor Switch SBGR-6-ODP control; see Motion Sensor Guide for details. Includes ambient light sensor. Not available with "PE" option (button type photocell). Dimming driver standard. Not available with 20 LED/1000 mA configuration (DSXW1 LED 20C 1000).
  - Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at [www.lithonia.com](http://www.lithonia.com)
  - Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option. Not available with ELCW.
  - Also available as a separate accessory; see Accessories information.
  - See the electrical section on page 3 for more details.

## Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXBWSW U	Bird-deterrent spikes
DSXW1WG U	Wire guard accessory
DSXW1VG U	Vandal guard accessory

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K					40K					50K					AMBER					
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	
10C (10 LEDs)	530mA	20 W	T2S	1,843	1	0	1	92	1,956	1	0	1	98	1,729	1	0	1	86	1,264	0	0	1	63	
			T2M	1,756	1	0	1	88	1,864	1	0	1	93	1,648	1	0	1	82	1,205	0	0	1	60	
			T3S	1,822	0	0	1	91	1,934	0	0	1	97	1,710	0	0	1	86	1,250	0	0	1	63	
			T3M	1,804	1	0	1	90	1,914	1	0	1	96	1,693	1	0	1	85	1,237	0	0	1	62	
			T4M	1,767	1	0	1	88	1,876	1	0	1	94	1,658	0	0	1	83	1,212	0	0	1	61	
			TFTM	1,837	0	0	1	92	1,950	0	0	1	98	1,724	0	0	1	86	1,260	0	0	1	63	
	700mA	27 W	ASYDF	1,642	1	0	1	82	1,743	1	0	1	87	1,541	1	0	1	77	1,127	0	0	1	56	
			T2S	2,272	1	0	1	84	2,409	1	0	1	89	2,421	1	0	1	90	1,544	0	0	1	57	
			T2M	2,165	1	0	1	80	2,296	1	0	1	85	2,307	1	0	1	85	1,472	0	0	1	55	
			T3S	2,247	1	0	1	83	2,382	1	0	1	88	2,394	1	0	1	89	1,527	0	0	1	57	
			T3M	2,224	1	0	1	82	2,358	1	0	1	87	2,370	1	0	1	88	1,512	0	0	1	56	
			T4M	2,179	1	0	1	81	2,310	1	0	1	86	2,322	1	0	1	86	1,481	0	0	1	55	
	1000mA	40 W	TFTM	2,265	1	0	1	84	2,401	1	0	1	89	2,413	1	0	1	89	1,539	0	0	1	57	
			ASYDF	2,025	1	0	1	75	2,147	1	0	1	80	2,158	1	0	1	80	1,376	1	0	1	51	
			T2S	3,011	1	0	1	75	3,190	1	0	1	80	3,202	1	0	1	80	2,235	1	0	1	58	
			T2M	2,870	1	0	1	72	3,040	1	0	1	76	3,051	1	0	1	76	2,130	1	0	2	55	
			T3S	2,978	1	0	1	74	3,155	1	0	1	79	3,166	1	0	1	79	2,210	1	0	2	57	
			T3M	2,948	1	0	1	74	3,123	1	0	1	78	3,134	1	0	1	78	2,187	1	0	2	56	
	20C (20 LEDs)	530mA	36 W	T4M	2,888	1	0	1	72	3,059	1	0	1	76	3,071	1	0	1	77	2,143	1	0	2	55
				TFTM	3,002	1	0	1	75	3,180	1	0	1	80	3,192	1	0	1	80	2,228	1	0	2	57
				ASYDF	2,684	1	0	1	67	2,843	1	0	1	71	2,854	1	0	1	71	1,991	1	0	2	51
				T2S	3,649	1	0	1	101	3,876	1	0	1	108	3,429	1	0	1	95	2,504	1	0	1	70
				T2M	3,478	1	0	1	97	3,694	1	0	1	103	3,267	1	0	1	91	2,387	1	0	1	66
				T3S	3,609	1	0	1	100	3,833	1	0	1	106	3,390	1	0	1	94	2,477	1	0	1	69
700mA		47 W	T3M	3,572	1	0	1	99	3,794	1	0	1	105	3,356	1	0	1	93	2,451	1	0	2	68	
			T4M	3,500	1	0	2	97	3,717	1	0	2	103	3,288	1	0	1	91	2,402	1	0	1	67	
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			ASYDF	3,252	1	0	2	90	3,454	1	0	2	96	3,056	1	0	2	85	2,232	1	0	1	62	
			T2S	4,502	1	0	1	96	4,776	1	0	1	102	4,794	1	0	1	102	3,065	1	0	1	65	
			T2M	4,290	1	0	1	91	4,552	1	0	1	97	4,569	1	0	1	97	2,921	1	0	1	62	
1000mA	74 W	T3S	4,452	1	0	1	95	4,723	1	0	2	100	4,741	1	0	2	101	3,031	1	0	1	64		
		T3M	4,407	1	0	2	94	4,675	1	0	2	99	4,693	1	0	2	100	3,000	1	0	1	64		
		T4M	4,318	1	0	2	92	4,581	1	0	2	97	4,598	1	0	2	98	2,939	1	0	1	63		
		TFTM	4,488	1	0	2	95	4,761	1	0	2	101	4,779	1	0	2	102	3,055	1	0	1	65		
		ASYDF	4,012	1	0	2	85	4,257	1	0	2	91	4,273	1	0	2	91	2,732	1	0	1	58		
		T2S	5,963	1	0	1	80	6,327	1	0	1	84	6,351	1	0	1	85	4,429	1	0	1	61		
			T2M	5,683	1	0	2	76	6,029	1	0	2	80	6,052	1	0	2	81	4,221	1	0	2	58	
			T3S	5,896	1	0	2	79	6,256	1	0	2	83	6,280	1	0	2	84	4,380	1	0	2	60	
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			TFTM	5,944	1	0	2	79	6,307	1	0	2	84	6,330	1	0	2	84	4,415	1	0	2	60	
			ASYDF	5,314	1	0	2	71	5,638	2	0	2	75	5,660	2	0	2	75	3,947	1	0	2	54	

## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.98

### Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120V	208V	240V	277V	347V	480V
10C	350	14 W	0.13	0.07	0.06	0.06	-	-
	530	20 W	0.19	0.11	0.09	0.08	-	-
	700	27 W	0.25	0.14	0.13	0.11	-	-
	1000	40 W	0.37	0.21	0.19	0.16	-	-
20C	350	25 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	0.15	0.11
	1000	75 W	0.69	0.40	0.35	0.30	0.23	0.17

### Projected LED Lumen Maintenance

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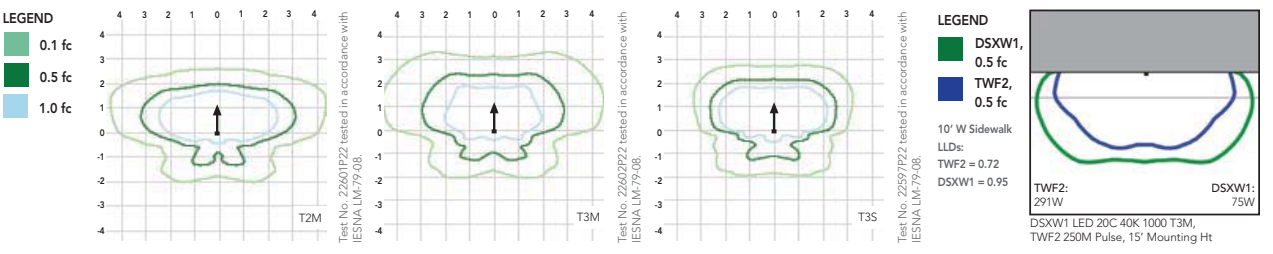
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.93	0.88

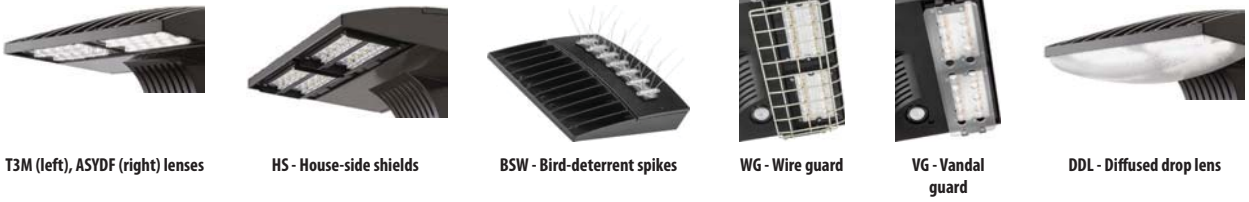
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Isofootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



## Options and Accessories



## FEATURES & SPECIFICATIONS

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### INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

### LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

### WARRANTY

Five year limited warranty. Full warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.



# M9700C

## In-Grade Luminaire

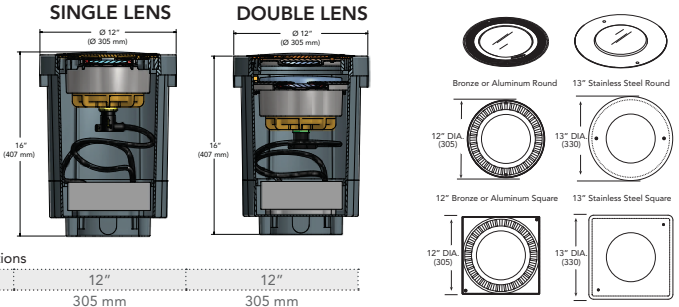


CATALOG NUMBER	
NOTES	
TYPE	

### DESCRIPTION

The M9700C LED in-grade is a true one-for-one replacement for 50-150W metal halide luminaires, with all the benefits of LED. Hydrel's proven flow-through technology and industry leading IP68 rating ensures a 20- year service life. This eliminates routine lamp changes, providing material and labor savings, in addition to the energy savings associated with LED.

The M9700C LED series consists of a factory-sealed LED lamp module and encapsulated power module. The components are secured inside a heavy-duty polymer rough-in housing designed with channeled convective cooling, an integral junction box, and finished door trim assembly. These units can be flushed mounted into a variety of substrates or landscape materials.



**Specifications**

L:	12"	12"
	305 mm	305 mm
W:	12"	12"
	305 mm	305 mm
H:	16"	16"
	407 mm	407 mm

### ORDERING INFORMATION

EXAMPLE: M9720C SS LED P3 40K MVOLT NSP FLC 34S

Model	Door Material	Source	Performance Package	LED Color	Voltage	Distribution	Lens <sup>3</sup>
M9710C	Round Door, Single Lens	A Aluminum	P1 29W	30K 3000K	MVOLT (120 - 277 volt 50/60HZ)	NSP Narrow Spot	FLC Flat Lens Clear
M9720C	Round Door, Double Lens	B Bronze	P2 35W	40K 4000K		NFL Narrow Flood	FLC5 Flat Lens Clear, 5° Axial Spread
M9730C	Square Door, Single Lens	SS Stainless Steel	P3 46W	50K 5000K		MFL Medium Flood	FLC10 Flat Lens Clear, 10° optical tilt
M9740C	Square Door, Double Lens		P4 <sup>1</sup> 53W			FL Flood	FLC20 Flat Lens Clear, 20° optical tilt
						WFL Wide Flood	FLF Flat Lens Frosted
						WWD <sup>2</sup> Wall Wash	FLCAS Flat Lens Clear, Anti-Slip
							FLC5AS Flat Lens Clear, 5° Axial Spread, Anti-Slip

Lens (cont.)	Conduit Entries	Accessories	Options	Finish <sup>11</sup>	Listing
FLCSR <sup>4</sup> Flat Lens Clear Slip Resistant	12B 1/2" NPT Bottom	Internal <sup>6,7</sup>	LDIM 0-10V Dimming (Dims to 10%)	BL Black	IEC <sup>4</sup> International Electro-technical Commission (50HZ applications only)
FLC5SR <sup>4</sup> Flat Lens Clear, 5° Axial Spread, Slip Resistant	12S 1/2" NPT Side	IHL Internal Honeycomb Louver	IDIM <sup>10</sup> Inline Dimming (Dims to 40%)	BZ Bronze	
FLC10SR <sup>4</sup> Flat Lens Clear, 10° optical tilt, Slip Resistant	34B 3/4" NPT Bottom	LSF Linear Spread Filter	EDIM 0-10V Dimming (Dims to Dark)	DDB Dark Bronze	
FLC20SR <sup>4</sup> Flat Lens Clear, 20° optical tilt, Slip Resistant	34S 3/4" NPT Side	External <sup>6,8</sup>		DNA Natural Alum.	
CLC Convex Lens, Clear	25S <sup>5</sup> Two 25mm Side	GS Glare Shield		GN Green	
CLF Convex Lens, Frosted		LC <sup>8</sup> Lexan Cover		GR Gray	
		LS Light Shield		SND Sand	
		RG <sup>9</sup> Rock Guard		STG Steel Gray	
		Trim Ring <sup>6,8</sup>		TVG Terra Verde Green	
		BTR Brass Round		WH White	
		BTS Brass Square		_Z <sup>12</sup> Zinc Undercoat (i.e. BLZ)	
		STR Stainless Round			
		STS Stainless Square			

- Notes:**
- P4 not available with double lens.
  - Recommended to use the FLF or FLCSR lens with the WWD
  - Specify top lens. Bottom lens is FLC standard on M9720C and M9740C.
  - Meets ADA requirements for coefficient of friction.
  - Only for use in 50HZ applications.
  - Accessories are mutually exclusive, choose one only.
  - Not available with FLC10, FLC20, FLC10SR or FLC20SR.
  - External accessory not available with SS door material.
  - Not available with CLC or CLF convex lens.
  - IDIM forward phase dimming not available with P3. IDIM option should be run at 120 volt.
  - Finish only available on "A" door material.
  - Add Zinc undercoat for harsh environments.

<b>M9700C LED Series Assembly consists of the following individual components parts</b>	MRIS97C Rough-In Housing MFS97C Finishing Section MACLC LED Module MHSL97C Power Module
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**PERFORMANCE DATA**

IP68

**LUMEN OUTPUT — SINGLE LENS (M9710C AND M9730C)**

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Distribution Type	Field Angle		Beam Angle		30K (3000K, 70CRI)			40K (4000K, 70CRI)			50K (5000K, 70CRI)		
			°H	°V	°H	°V	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW
P1	29W	NSP	29	29	13	13	22,341	3,285	113	31,686	3,499	121	31,820	3,660	126
		NFL	70	70	25	25	6,182	2,964	102	9,252	2,950	102	9,281	3,067	106
		MFL	65	56	52	40	3,093	2,802	97	4,571	2,766	95	4,602	2,850	98
		FL	84	78	69	57	1,911	2,957	102	2,840	2,964	102	2,934	3,051	105
		WFL	103	93	78	61	1,228	2,527	87	1,861	2,580	89	1,881	2,592	89
		WWD	122	75	78	36	2,592	2,618	90	2,585	2,611	90	2,689	2,547	88
P2	35W	NSP	29	29	13	13	27,686	3,887	112	37,026	4,068	118	36,439	4,233	122
		NFL	70	70	25	25	7,665	3,504	101	10,668	3,488	101	10,630	3,630	105
		MFL	65	56	52	40	3,835	3,312	96	5,270	3,271	95	5,270	3,374	98
		FL	84	78	69	57	2,369	3,496	101	3,275	3,504	101	3,361	3,611	104
		WFL	103	93	78	61	1,522	2,987	86	2,146	3,050	88	2,155	3,067	89
		WWD	123	77	79	40	2,179	2,892	84	2,944	3,032	88	3,080	3,015	87
P3	46W	NSP	27	27	12	12	47,420	5,111	111	46,761	5,098	111	45,742	5,215	113
		NFL	70	70	25	25	13,125	4,617	100	13,487	4,595	100	13,354	4,777	104
		MFL	65	56	52	40	6,566	4,364	95	6,663	4,309	94	6,621	4,440	97
		FL	84	78	69	57	4,057	4,606	100	4,140	4,617	100	4,222	4,753	103
		WFL	103	93	77	61	2,607	3,936	86	2,713	4,018	87	2,707	4,037	88
		WWD	123	77	79	40	3,731	3,810	83	3,721	3,800	83	3,869	3,968	86
P4	53W	NSP	27	27	12	12	50,447	5,504	104	50,400	5,476	104	52,146	5,615	107
		NFL	70	70	25	25	13,952	4,973	94	14,485	4,949	94	15,224	5,145	98
		MFL	65	56	52	40	6,980	4,700	89	7,156	4,641	88	7,548	4,782	91
		FL	84	78	69	57	4,313	4,961	94	4,446	4,973	94	4,813	5,119	97
		WFL	103	93	77	61	2,771	4,239	80	2,914	4,327	82	3,086	4,348	83
		WWD	122	75	78	36	4,104	4,149	79	4,093	4,138	79	4,411	4,274	81

**LUMEN OUTPUT — DOUBLE LENS (M9720C AND M9740C)**

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Distribution Type	Field Angle		Beam Angle		30K (3000K, 70CRI)			40K (4000K, 70CRI)			50K (5000K, 70CRI)		
			°H	°V	°H	°V	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW
P1	29W	NSP	29	29	13	13	19,883	2,924	101	28,201	3,114	107	28,320	3,257	112
		NFL	70	70	25	25	5,502	2,638	91	8,234	2,625	91	8,260	2,729	94
		MFL	65	56	52	40	2,752	2,494	86	4,068	2,462	85	4,095	2,537	87
		FL	84	78	69	57	1,701	2,632	91	2,528	2,638	91	2,612	2,716	94
		WFL	103	93	78	61	1,093	2,249	78	1,656	2,296	79	1,674	2,307	80
		WWD	122	75	78	36	2,307	2,330	80	2,301	2,324	80	2,393	2,267	78
P2	35W	NSP	29	29	13	13	24,641	3,459	100	32,953	3,621	105	32,431	3,767	109
		NFL	70	70	25	25	6,822	3,119	90	9,495	3,104	90	9,461	3,230	93
		MFL	65	56	52	40	3,413	2,948	85	4,691	2,911	84	4,691	3,002	87
		FL	84	78	69	57	2,109	3,111	90	2,915	3,119	90	2,991	3,214	93
		WFL	103	93	78	61	1,355	2,659	77	1,910	2,714	78	1,918	2,730	79
		WWD	123	77	79	40	1,939	2,574	74	2,620	2,699	78	2,741	2,683	78
P3	46W	NSP	27	27	12	12	42,204	4,549	99	41,617	4,537	99	40,710	4,641	101
		NFL	70	70	25	25	11,681	4,109	89	12,003	4,090	89	11,885	4,252	92
		MFL	65	56	52	40	5,844	3,884	84	5,930	3,835	83	5,893	3,952	86
		FL	84	78	69	57	3,611	4,099	89	3,685	4,109	89	3,758	4,230	92
		WFL	103	93	77	61	2,320	3,503	76	2,415	3,576	78	2,409	3,593	78
		WWD	123	77	79	40	3,321	3,391	74	3,312	3,382	74	3,443	3,532	77

OPERATING TEMPERATURE: -30°C through 50°C P1 & P2; -30°C through 40°C P3



**Lumen Ambient Temperature (LAT) Multipliers**

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

**Projected LED Lumen Maintenance**

Data references the extrapolated performance projections for the Fixture platform in a 25°C ambient, based on 13,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

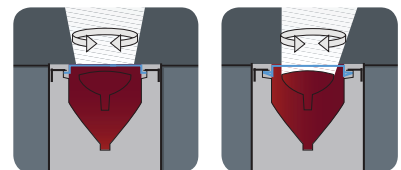
Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.94	0.93	0.92

**Electrical Load**

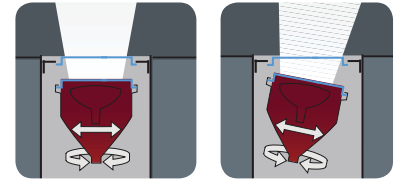
Light Engines	Drive Current (mA)	System Watts	Current (A)			
			120	208	240	277
P1	250mA	29	0.24	0.14	0.12	0.10
P2	300mA	35	0.29	0.17	0.15	0.13
P3	400mA	46	0.38	0.22	0.19	0.17
P4	450mA	53	0.44	0.25	0.22	0.19

**Slip Resistance and Load Rating**

M9700C LED
<b>MAXIMUM LOAD RATING</b> Peak compression force of 3,750 lbs. (single lens), 3,200 lbs. (double lens).
<b>LENS STATIC COEFFICIENT OF FRICTION</b> M9700 Anti-Slip Lens (FLCAS): Dry = 0.76; Wet = 0.10 M9700 Slip Resistant Lens (FLSR): Dry = 0.84; Wet = 0.65

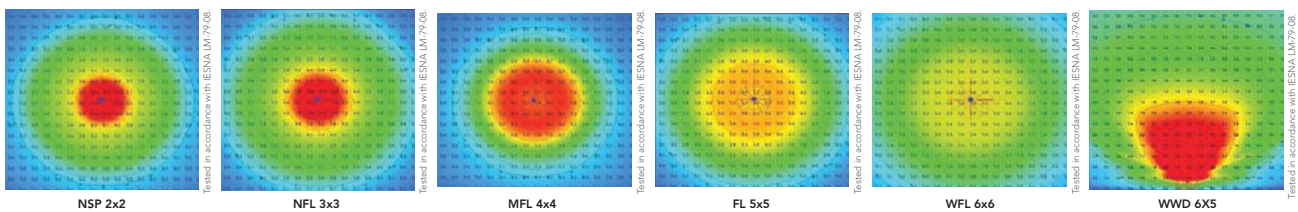


Single lensed fixture can be aimed using 10° and 20° optical tilt lenses only.



Double lens, mechanically and optically aimed.

**PHOTOMETRIC DIAGRAMS**



To see complete photometric reports or download .ies files for this product, visit [www.hydreel.com](http://www.hydreel.com)

**FEATURES & SPECIFICATIONS**

**INTENDED USE:** The M9700C LED incorporates a modular design with a water-tight module and junction box intended for applications with flow-through capability. The design of the housing starts at the rough-in sections with a molded junction box and holes at the bottom, allowing a pathway for the water to flow through the housing and drain out the bottom. This product is ideal for all outdoor upright applications, such as wall washing and feature accentuation.

**DOOR MATERIAL:** Cast aluminum, cast bronze or stainless steel. Available in round or square door trim. Finish is natural aluminum or bronze. Stainless steel door is brushed finish. Aluminum doors may be painted. See ordering guide.

**ROUGH-IN SECTION:** Injection molded polymer with integral junction box for thru-branch wiring. The housing is U.V. stabilized, impact and corrosion resistant for use in all types of environments. The rough-in houses the LED and power module components and top door finishing section. Potting compound (PC21) recommended for junction box splices. PC21 sold separately.

**CONDUIT ENTRIES:** Two (2) bottom or side entries available. Box suitable for through-branch wiring. Splicing volume is 25 in<sup>3</sup> (410 ccm)

**FINISHING SECTION:** Double lens design includes door assembly with 360° Aim-Lock™ module support and tilt ring that allows 15° of aiming. Active optical lenses are also available. Module indexing provides easy maintenance without re-aiming. Door trim locks into position with two stainless steel captive, tamper-resistant fasteners.

**LED MODULE:** Stainless steel housing, factory-sealed and purged of all moisture for longer component life. The LED module is suspended below the top door lens in a surface adjustable, 15° tilt mechanism. Lens is sealed with silicone gasket and stainless steel clamp band assembly with single fastener. Electrical connection to LED module is done through a submersible quick disconnect plug connector with gold-plated contacts.

**LIGHT ENGINE:** Light engines consist of chip-on-board (COB) LEDs directly coupled to the housing to maximize heat dissipation and promote long life (100,000 hrs, L92). Heat generated by LEDs is dissipated into and through the fixture housing, and adds less than 15°C to steady state operating lens temperature. For example, in a typical 25°C (77°F) operating environment, lens temperature would not exceed 40°C (104°F).

**POWER MODULE:** LED driver is encapsulated in a custom heat-dissipating epoxy resin that eliminates all moisture intrusion. Module is provided with submersible rated cord leads for connection to integral junction box and LED module.

**ELECTRICAL:** MVOLT (120-277) 50/60 Hz LED power supply. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Surge protection meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

**LISTING:** CSA certified to U.S. and Canadian standards. Luminaire is IP68 rated. Suitable for Wet Locations. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

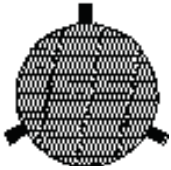
**WARRANTY:** 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**NOTE:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

**ACCESSORIES**

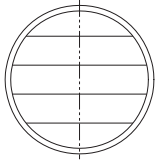
IP68

**INTERNAL**



**INTERNAL HONEYCOMB LOUVERS**  
Hexagonal cell louver with 45° cut-off.

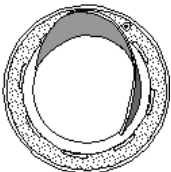
IHL



**LINEAR SPREAD FILTER**  
6.68" diamter, spreads the beam of light along one axis only. May be oriented to spread the light horizontally or vertically.

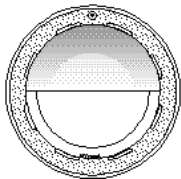
LSF

**EXTERNAL**



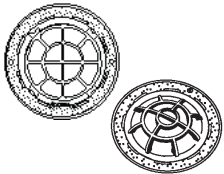
**QUARTER GLARE SHIELDS**  
Rolled sheet aluminum or brass. 360° of adjustment on fixture door, with lock down. May be field installed to door as shown.  
*(Not recommended for foot traffic areas.)*

GS



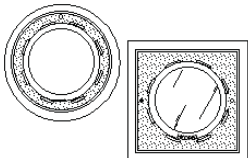
**HALF LIGHT SHIELD**  
(Quarter Spherical External)  
Cast aluminum or bronze shield for glare control for wall wash units. 360° adjustment allows field setting and lock down. May be field installed to door as shown.  
*(Not recommended for foot traffic areas.)*

LS



**ROCKGUARD (EXTERNAL)**  
Cast aluminum or cast bronze material.  
*(Not recommended for foot traffic areas.)*

RG



**STAINLESS STEEL or BRONZE TRIM RINGS**  
A decorative escutcheon used when a high finish look is wanted. For finishing marble, tile or other installations. Available in round or square. Door is flush with escutcheon. Not available on SS doors.

BTR  
BTS  
STR  
STS



**LEXAN DOME**  
A Lexan protective cover for use in areas where loose debris such as leaves and pine needles accumulate.

LC

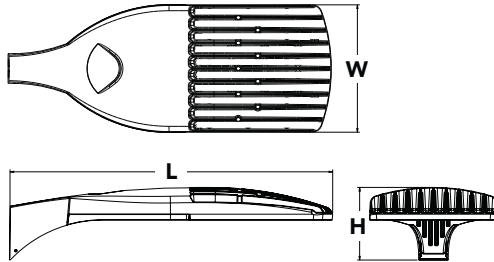


# D-Series Size 1 LED Area Luminaire



## Specifications

- EPA:** 1.01 ft<sup>2</sup> (0.09 m<sup>2</sup>)
- Length:** 33" (83.8 cm)
- Width:** 13" (33.0 cm)
- Height:** 7-1/2" (19.0 cm)
- Weight (max):** 27 lbs (12.2 kg)



Catalog Number \_\_\_\_\_  
Notes \_\_\_\_\_  
Type \_\_\_\_\_

Hit the Tab key or mouse over the page to see all interactive elements.

## Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

- See ordering tree for details.
- A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

A+ Capable options indicated by this color background.

## Ordering Information

**EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA DDBXD**

DSX1LED		Color temperature		Distribution		Voltage		Mounting	
Series	LEDs								
DSX1 LED	<b>Forward optics</b>	30K	3000 K	T1S	Type I short	T5S	Type V short	MVOLT <sup>4,5</sup>	<b>Shipped included</b>
	P1 P4 P7	40K	4000 K	T2S	Type II short	T5M	Type V medium	120 <sup>6</sup>	SPA Square pole mounting
	P2 P5 P8	50K	5000 K	T2M	Type II medium	T5W	Type V wide	208 <sup>5,6</sup>	RPA Round pole mounting
	P3 P6 P9	AMBPC	Amber phosphor converted <sup>2</sup>	T3S	Type III short	BLC	Backlight control <sup>2,3</sup>	240 <sup>5,6</sup>	WBA Wall bracket
	<b>Rotated optics</b>			T3M	Type III medium	LCCO	Left corner cutoff <sup>2,3</sup>	277 <sup>6</sup>	SPUMBA Square pole universal mounting adaptor <sup>8</sup>
P10 <sup>1</sup> P12 <sup>1</sup>			T4M	Type IV medium	RCCO	Right corner cutoff <sup>2,3</sup>	347 <sup>5,6,7</sup>	RPUMBA Round pole universal mounting adaptor <sup>8</sup>	
P11 <sup>1</sup> P13 <sup>1</sup>			TFTM	Forward throw medium			480 <sup>5,6,7</sup>	<b>Shipped separately</b>	
			T5VS	Type V very short				KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>9</sup>	

Control options		Other options		Finish (required)		
<b>Shipped installed</b>		<b>Shipped installed</b>		DDBXD Dark bronze		
PER	NEMA twist-lock receptacle only (controls ordered separate) <sup>10</sup>	PIRH1FC3V	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>5,14,15</sup>	HS	House-side shield <sup>19</sup>	
PER5	Five-wire receptacle only (controls ordered separate) <sup>10,11</sup>	BL30	Bi-level switched dimming, 30% <sup>5,13,16</sup>	SF	Single fuse (120, 277, 347V) <sup>8</sup>	
PER7	Seven-wire receptacle only (controls ordered separate) <sup>10,11</sup>	BL50	Bi-level switched dimming, 50% <sup>5,13,16</sup>	DF	Double fuse (208, 240, 480V) <sup>8</sup>	
DMG	0-10V dimming extend out back of honsing for external control (leads exit fixture)	PNMTDD3	Part night, dim till dawn <sup>5,17</sup>	L90	Left rotated optics <sup>1</sup>	
DS	Dual switching <sup>12,13</sup>	PNMT5D3	Part night, dim 5 hrs <sup>5,17</sup>	R90	Right rotated optics <sup>1</sup>	
PIR	Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc <sup>5,14,15</sup>	PNMT6D3	Part night, dim 6 hrs <sup>5,17</sup>	BS	Bird spikes	
PIRH	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc <sup>5,14,15</sup>	PNMT7D3	Part night, dim 7 hrs <sup>5,17</sup>	EGS	External glare shield	
PIRH3V	Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>5,14,15</sup>	FAO	Field adjustable output <sup>18</sup>			
						DWBXD Textured dark bronze
						DBLXD Black
						DNAXD Natural aluminum
						DWHXD White
						DBLXD Textured black
						DNATXD Textured natural aluminum
						DWHGXD Textured white

## Ordering Information

### Accessories

Ordered and shipped separately.

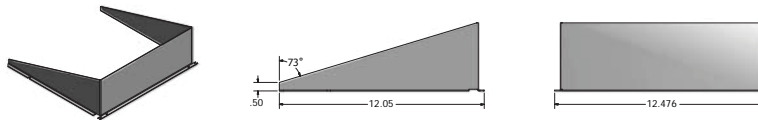
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>20</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>20</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>20</sup>
DSHORT SBK U	Shorting cap <sup>20</sup>
DSX1HS 30C U	House-side shield for 30 LED unit <sup>19</sup>
DSX1HS 40C U	House-side shield for 40 LED unit <sup>19</sup>
DSX1HS 60C U	House-side shield for 60 LED unit <sup>19</sup>
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) <sup>21</sup>
KMA8 DDBXD U	Max arm mounting bracket adaptor (specify finish) <sup>1</sup>

For more control options, visit [DTL](#) and [ROAM](#) online.

### NOTES

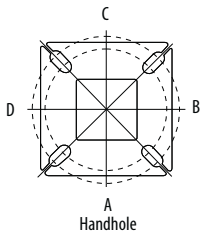
- P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
- AMBPC is not available with BLC, LCCO, RCCO or P4, P7, P8, P9 or P13.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Any PIRx with BL30, BL50 or PNMT, is not available with 208V, 240V, 347V, 480V or MVOLT. It is only available in 120V or 277V specified.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available in P1 or P10. Not available with BL30, BL50 or PNMT options.
- Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR. Node with integral dimming. Shorting cap included.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3 or P4.
- Requires (2) separately switched circuits.
- Reference Motion Sensor table on page 3.
- Reference PER table on page 3 to see functionality.
- Not available with 347V, 480V, PNMT, DS. For PER5 or PER7, see PER Table on page 3.
- Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7, see PER Table on page 3. Separate Dusk to Dawn required.
- Not available with other dimming controls options
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- For retrofit use only.

## External Glare Shield



## Drilling

### HANDHOLE ORIENTATION



### Tenon Mounting Slipfitter\*\*

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

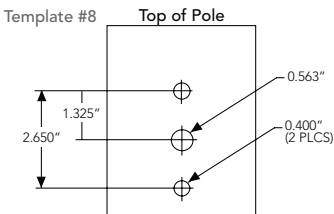
### Pole drilling nomenclature: # of heads at degree from handhole (default side A)

DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Round pole only	Side B, C, & D	Sides A, B, C, D

Note: Review luminaire spec sheet for specific nomenclature

Pole top or tenon O.D.	4.5" @ 90°	4" @ 90°	3.5" @ 90°	3" @ 90°	4.5" @ 120°	4" @ 120°	3.5" @ 120°	3" @ 120°
DSX SPA	Y	Y	Y	N	-	-	-	-
DSX RPA	Y	Y	N	N	Y	Y	Y	Y
DSX SPUMBA	Y	N	N	N	-	-	-	-
DSX RPUMBA	N	N	N	N	Y	Y	Y	N

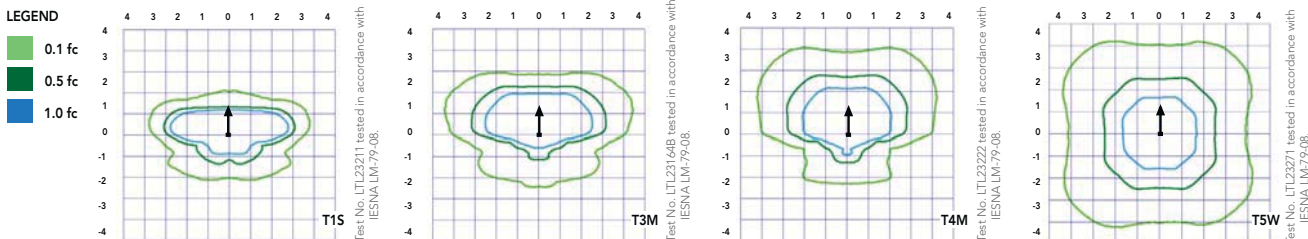
\*3 fixtures @ 120 require round pole top/tenon.



## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').



## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	1.04
5°C	1.04
10°C	1.03
15°C	1.02
20°C	1.01
<b>25°C</b>	<b>1.00</b>
30°C	0.99
35°C	0.98
40°C	0.97

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25000	50000	100000
Lumen Maintenance Factor	1.00	0.96	0.92	0.85

### Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

### Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

\*for use with Inline Dusk to Dawn or timer.

### PER Table

Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
		Wire 4/Wire5	Wire 4/Wire5	Wire 6/Wire7	Wire 6/Wire7	
Photocontrol Only (On/Off)	✓	▲	Wired to dimming leads on driver	▲	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	✗	✓	Wired to dimming leads on driver	▲	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion (ROAM on/off only)	✗	▲	Wires Capped inside fixture	▲	Wires Capped inside fixture	Wires Capped inside fixture
Future-proof*	✗	▲	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture
Future-proof* with Motion	✗	▲	Wires Capped inside fixture	✓	Wires Capped inside fixture	Wires Capped inside fixture

✓ Recommended
✗ Will not work
▲ Alternate

\*Future-proof means: Ability to change controls in the future.



## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics																												
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lu-mens	B	U	G	LPW				
40	1250	P6	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118									
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118									
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119									
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115									
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118									
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116									
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118									
				TSVS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123									
				T5S	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123									
				T5M	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123									
				T5W	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122									
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97									
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72									
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72									
				40	1400	P7	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115					
								T2S	19,206	3	0	3	105	20,690	3	0	3	113	20,952	3	0	3	114					
T2M	19,305	3	0					3	105	20,797	3	0	3	114	21,060	3	0	3	115									
T3S	18,696	3	0					3	102	20,141	3	0	3	110	20,396	3	0	4	111									
T3M	19,258	3	0					3	105	20,746	3	0	3	113	21,009	3	0	3	115									
T4M	18,840	3	0					4	103	20,296	3	0	4	111	20,553	3	0	4	112									
TFTM	19,246	3	0					4	105	20,734	3	0	4	113	20,996	3	0	4	115									
TSVS	20,017	4	0					1	109	21,564	4	0	1	118	21,837	4	0	1	119									
T5S	20,033	4	0					2	109	21,581	4	0	2	118	21,854	4	0	2	119									
T5M	19,983	4	0					2	109	21,527	5	0	3	118	21,799	5	0	3	119									
T5W	19,852	5	0					3	108	21,386	5	0	3	117	21,656	5	0	3	118									
BLC	15,780	2	0					3	86	16,999	2	0	3	93	17,214	2	0	3	94									
LCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70									
RCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70									
60	1050	P8	207W					T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119					
								T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118					
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119									
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115									
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119									
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116									
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119									
				TSVS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123									
				T5S	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123									
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123									
				T5W	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122									
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97									
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72									
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72									
				60	1250	P9	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116					
								T2S	25,548	3	0	4	106	27,522	3	0	4	114	27,871	3	0	4	116					
T2M	25,680	3	0					3	107	27,664	3	0	3	115	28,014	3	0	3	116									
T3S	24,870	3	0					4	103	26,791	3	0	4	111	27,130	3	0	4	113									
T3M	25,617	3	0					4	106	27,597	3	0	4	115	27,946	3	0	4	116									
T4M	25,061	3	0					4	104	26,997	3	0	4	112	27,339	3	0	4	113									
TFTM	25,602	3	0					4	106	27,580	3	0	4	114	27,929	3	0	4	116									
TSVS	26,626	5	0					1	110	28,684	5	0	1	119	29,047	5	0	1	121									
T5S	26,648	4	0					2	111	28,707	5	0	2	119	29,070	5	0	2	121									
T5M	26,581	5	0					3	110	28,635	5	0	3	119	28,997	5	0	3	120									
T5W	26,406	5	0					4	110	28,447	5	0	4	118	28,807	5	0	4	120									
BLC	20,990	2	0					3	87	22,612	2	0	3	94	22,898	2	0	3	95									
LCCO	15,619	2	0					4	65	16,825	2	0	4	70	17,038	2	0	4	71									
									15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71					

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics																									
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)				40K (4000 K, 70 CRI)				50K (5000 K, 70 CRI)				AMBPC (Amber Phosphor Converted)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	
60	530	P10	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134	7,167	2	0	2	72	
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133	7,507	2	0	2	76	
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136	7,263	2	0	2	73	
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131	7,424	2	0	2	75	
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136	7,387	2	0	2	75	
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133	7,400	2	0	2	75	
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137	7,288	1	0	2	74	
				TSVS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138	7,734	3	0	1	78	
				TSS	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136	7,641	3	0	0	77	
				TSM	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136	7,737	3	0	2	78	
				TSW	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135	7,522	3	0	2	76	
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112						
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80						
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80						
60	700	P11	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132	8,952	2	0	2	68	
				T2S	16,461	4	0	4	120	17,733	4	0	4	129	17,957	4	0	4	131	9,377	2	0	2	72	
				T2M	16,758	4	0	4	122	18,053	4	0	4	132	18,281	4	0	4	133	9,072	2	0	2	69	
				T3S	16,205	4	0	4	118	17,457	4	0	4	127	17,678	4	0	4	129	9,273	2	0	2	71	
				T3M	16,748	4	0	4	122	18,042	4	0	4	132	18,271	4	0	4	133	9,227	2	0	2	70	
				T4M	16,432	4	0	4	120	17,702	4	0	4	129	17,926	4	0	4	131	9,243	2	0	2	71	
				TFTM	16,857	4	0	4	123	18,159	4	0	4	133	18,389	4	0	4	134	9,103	2	0	2	69	
				TSVS	16,975	4	0	1	124	18,287	4	0	1	133	18,518	4	0	1	135	9,661	3	0	1	74	
				TSS	16,832	4	0	1	123	18,133	4	0	1	132	18,362	4	0	1	134	9,544	3	0	1	73	
				TSM	16,828	4	0	2	123	18,128	4	0	2	132	18,358	4	0	2	134	9,665	3	0	2	74	
				TSW	16,677	4	0	3	122	17,966	5	0	3	131	18,193	5	0	3	133	9,395	4	0	2	72	
				BLC	13,845	3	0	3	101	14,915	3	0	3	109	15,103	3	0	3	110						
				LCCO	9,888	1	0	3	72	10,652	2	0	3	78	10,787	2	0	3	79						
				RCCO	9,875	4	0	4	72	10,638	4	0	4	78	10,773	4	0	4	79						
60	1050	P12	207W	T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121						
				T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120						
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123						
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119						
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123						
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120						
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123						
				TSVS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124						
				TSS	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123						
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123						
				TSW	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122						
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101						
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72						
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72						
60	1250	P13	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120						
				T2S	25,254	5	0	5	109	27,205	5	0	5	118	27,550	5	0	5	119						
				T2M	25,710	4	0	4	111	27,696	4	0	4	120	28,047	4	0	4	121						
				T3S	24,862	5	0	5	108	26,783	5	0	5	116	27,122	5	0	5	117						
				T3M	25,695	5	0	5	111	27,680	5	0	5	120	28,031	5	0	5	121						
				T4M	25,210	5	0	5	109	27,158	5	0	5	118	27,502	5	0	5	119						
				TFTM	25,861	5	0	5	112	27,860	5	0	5	121	28,212	5	0	5	122						
				TSVS	26,043	5	0	1	113	28,056	5	0	1	121	28,411	5	0	1	123						
				TSS	25,824	4	0	2	112	27,819	5	0	2	120	28,172	5	0	2	122						
				TSM	25,818	5	0	3	112	27,813	5	0	3	120	28,165	5	0	3	122						
				TSW	25,586	5	0	4	111	27,563	5	0	4	119	27,912	5	0	4	121						
				BLC	21,241	4	0	4	92	22,882	4	0	4	99	23,172	4	0	4	100						
				LCCO	15,170	2	0	4	66	16,342	2	0	4	71	16,549	2	0	4	72						
				RCCO	15,150	5	0	5	66	16,321	5	0	5	71	16,527	5	0	5	72						





Project 18-33657-0  
 Hasler Valley Road Solid Waste

Submitted By  
 RKL SALES CORP

Catalog Number  
 DSX1 LED P2 40K T5W MVOLT SPA DDBXD

Notes

Type  
**S4**

## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

### CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft<sup>2</sup>) for optimized pole wind loading.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

### OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1

electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

### LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





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 Hasler Valley Road Solid Waste  
 Submitted By  
 RKL SALES CORP

Catalog Number  
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 Notes

Type  
**S4**



**SSP**

**Square Non-Tapered Steel Poles**

**Pole Shaft**

The pole shaft is one piece construction, being fabricated from a weldable grade carbon steel structural tubing which has a uniform wall thickness of 11 gauge (0.1196"), 7 gauge (0.1793"), or 3 gauge (0.2391"). The pole shaft material shall conform to ASTM A-500 Grade C with a minimum yield strength of 50,000 psi. The pole shaft has a full length longitudinal resistance weld and is uniformly square in cross-section with flat sides, small corner radii and excellent torsional properties.

**Base Plate**

The anchor base is fabricated from structural quality hot rolled carbon steel plate that meets or exceeds a minimum yield strength of 36,000 psi. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom. All welds are performed in accordance with the American Welding Society specification AWS D1.1, latest edition.

**Anchor Bolts**

Anchor bolts are fabricated from commercial quality hot rolled carbon steel bar that meets or exceeds a minimum yield strength of 55,000 psi. Four properly sized anchor bolts, each with two regular hex nuts and washers, are furnished and shipped with all poles unless otherwise specified. Anchor bolts shall have the threaded end galvanized a minimum of 8 inches in accordance with ASTM A-153. Fully galvanized anchor bolts are available upon request.

**Handhole**

An oval reinforced gasketed handhole, having a nominal 3" x 5" or 4" x 6-1/2" inside opening, located 1'-6" above base, is standard on all poles. Optional 5" x 8" and 4" x 10" handholes are available (see options). A grounding provision is located inside the handhole ring.

**Finishes**

The [Standard Finish](#) is a polyester thermosetting powder coating applied to the surface of the substrate to a minimum of 3 mils for all color finishes. [Hot dip Galvanized](#) finish to a ASTM A-123 specification or primed finish is also available. For optional finishes, see [K-KLAD](#) and [K-KLAD Over Galvanizing](#).

**HOW TO ORDER**

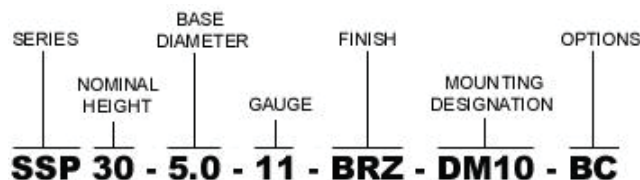
When ordering KW lighting standards, mounting adaptors and accessories, be sure to specify the complete catalog number. Our catalog numbers reflect the precise specifications of the item ordered to ensure our customers will receive the product which meets their exact requirements.

The following explanation of the catalog numbers will be helpful in placing orders:



**SSP**

**CATALOG LOGIC - ORDERING SAMPLE**





Project 18-33657-0  
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 RKL SALES CORP

Catalog Number  
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 Notes

Type  
**S4**

<u>Catalog Number</u>	<u>Nominal Height</u>	<u>Pole Shaft</u>	<u>Gauge</u>	<u>Handhole Size</u>	<u>Anchor Bolt</u>	<u>Bolt Circle</u>	<u>80 MPH</u>	<u>90 MPH</u>	<u>100 MPH</u>	<u>Ship WT.</u>
SSP10-4.0-11	10	4.0 x 10.0	11	3 x 5	0.75 x 17 x 3	8	42.1	33.5	27.1	87
SSP10-4.0-7	10	4.0 x 10.0	7	3 x 5	0.75 x 30 x 3	8	55	44	35.5	130
SSP10-5.0-11	10	5.0 x 10.0	11	3 x 5	1.00 x 36 x 4	11	58	44	34	151
SSP12-4.0-11	12	4.0 x 12.0	11	3 x 5	0.75 x 17 x 3	8	33.7	26.7	21.4	100
SSP12-4.0-7	12	4.0 x 12.0	7	3 x 5	0.75 x 30 x 3	8	47.5	37.3	29.8	150
SSP12-5.0-11	12	5.0 x 12.0	11	3 x 5	1.00 x 36 x 4	11	49	38	29	168
SSP14-4.0-11	14	4.0 x 14.0	11	3 x 5	0.75 x 17 x 3	8	27.4	21.5	17.1	113
SSP14-4.0-7	14	4.0 x 14.0	7	3 x 5	0.75 x 30 x 3	8	40	31	24.5	170
SSP14-5.0-11	14	5.0 x 14.0	11	3 x 5	1.00 x 36 x 4	11	40	30	23	184
SSP14-5.0-7	14	5.0 x 14.0	7	3 x 5	1.00 x 36 x 4	11	65	52	41.5	242
SSP15-4.0-11	15	4.0 x 15.0	11	3 x 5	0.75 x 17 x 3	8	20.7	16.1	12.6	119
SSP15-4.0-7	15	4.0 x 15.0	7	3 x 5	0.75 x 30 x 3	8	30.9	24.4	19.6	172
SSP15-5.0-11	15	5.0 x 15.0	11	3 x 5	1.00 x 36 x 4	11	36	27.5	21	192
SSP15-5.0-7	15	5.0 x 15.0	7	3 x 5	1.00 x 36 x 4	11	59	46.5	37	254
SSP16-4.0-11	16	4.0 x 16.0	11	3 x 5	0.75 x 17 x 3	8	18.7	14.4	11.2	125
SSP16-4.0-7	16	4.0 x 16.0	7	3 x 5	0.75 x 30 x 3	8	27.2	20.7	16	210
SSP16-5.0-11	16	5.0 x 16.0	11	3 x 5	1.00 x 36 x 4	11	33.5	25	18	201
SSP16-5.0-7	16	5.0 x 16.0	7	3 x 5	1.00 x 36 x 4	11	54	43	34	266
SSP18-4.0-11	18	4.0 x 18.0	11	3 x 5	0.75 x 17 x 3	8	15.2	11.5	8.7	138
SSP18-4.0-7	18	4.0 x 18.0	7	3 x 5	0.75 x 30 x 3	8	27.2	20.7	16	210
SSP18-5.0-11	18	5.0 x 18.0	11	3 x 5	1.00 x 36 x 4	11	27	19.5	15	218
SSP18-5.0-7	18	5.0 x 18.0	7	3 x 5	1.00 x 36 x 4	11	46	36	28	291
SSP20-4.0-11	20	4.0 x 20.0	11	3 x 5	0.75 x 17 x 3	8	12.3	9	6.5	151
SSP20-4.0-7	20	4.0 x 20.0	7	3 x 5	0.75 x 30 x 3	8	19.6	15	11.5	219
SSP20-5.0-11	20	5.0 x 20.0	11	3 x 5	1.00 x 36 x 4	11	22.2	16.8	12.6	235
SSP20-5.0-7	20	5.0 x 20.0	7	3 x 5	1.00 x 36 x 4	11	35.4	27.5	21.5	313
SSP20-6.0-7	20	6.0 x 20.0	7	3 x 5	1.00 x 36 x 4	11.5	56	42.5	33.5	368
SSP22-4.0-11	22	4.0 x 22.0	11	3 x 5	0.75 x 17 x 3	8	6.9	4.3	2.3	182
SSP22-4.0-7	22	4.0 x 22.0	7	3 x 5	0.75 x 30 x 3	8	12.2	8.7	6	266
SSP22-5.0-11	22	5.0 x 22.0	11	3 x 5	1.00 x 36 x 4	11	18.5	13.6	9.8	252
SSP22-5.0-7	22	5.0 x 22.0	7	3 x 5	1.00 x 36 x 4	11	30.2	23.2	17.8	337
SSP22-6.0-7	22	6.0 x 22.0	7	3 x 5	1.00 x 36 x 4	11.5	49	37.5	28	398
SSP24-4.0-7	24	4.0 x 24.0	7	3 x 5	0.75 x 30 x 3	8	12.2	8.7	6	266
SSP24-5.0-11	24	5.0 x 24.0	11	3 x 5	1.00 x 36 x 4	11	15.2	10.8	7.4	268
SSP24-5.0-7	24	5.0 x 24.0	7	3 x 5	1.00 x 36 x 4	11	25.8	19.4	14.6	361





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SSP24-6.0-7	24	6.0 x 24.0	7	3 x 5	1.00 x 36 x 4	11.5	42	31.5	23	428
SSP25-4.0-11	25	4.0 x 25.0	11	3 x 5	0.75 x 17 x 3	8	6.9	4.3	2.3	182
SSP25-4.0-7	25	4.0 x 25.0	7	3 x 5	0.75 x 30 x 3	8	12.2	8.7	6	266
SSP25-5.0-11	25	5.0 x 25.0	11	3 x 5	1.00 x 36 x 4	11	13.8	9.5	6.3	276
SSP25-5.0-7	25	5.0 x 25.0	7	3 x 5	1.00 x 36 x 4	11	23.8	17.7	13.1	373
SSP25-6.0-7	25	6.0 x 25.0	7	3 x 5	1.00 x 36 x 4	11.5	39	28.5	21	443
SSP26-4.0-7	26	4.0 x 26.0	7	3 x 5	0.75 x 30 x 3	8	6.9	4	1	312
SSP26-5.0-11	26	5.0 x 26.0	11	3 x 5	1.00 x 36 x 4	11	12.4	8.3	5.2	284
SSP26-5.0-7	26	5.0 x 26.0	7	3 x 5	1.00 x 36 x 4	11	21.9	16.1	11.8	384
SSP26-6.0-7	26	6.0 x 26.0	7	3 x 5	1.00 x 36 x 4	11.5	35.5	25.5	18.5	457
SSP28-4.0-7	28	4.0 x 28.0	7	3 x 5	0.75 x 30 x 3	8	6.9	4	1	312
SSP28-5.0-11	28	5.0 x 28.0	11	3 x 5	1.00 x 36 x 4	11	9.8	6.1	3.2	300
SSP28-5.0-7	28	5.0 x 28.0	7	3 x 5	1.00 x 36 x 4	11	18.4	13.2	9.2	408
SSP28-6.0-7	28	6.0 x 28.0	7	3 x 5	1.00 x 36 x 4	11.5	30	21.5	15	487
SSP30-4.0-7	30	4.0 x 30.0	7	3 x 5	0.75 x 30 x 3	8	6.9	4	1	312
SSP30-5.0-11	30	5.0 x 30.0	11	3 x 5	1.00 x 36 x 4	11	6.5	3.5	1.2	315
SSP30-5.0-7	30	5.0 x 30.0	7	3 x 5	1.00 x 36 x 4	11	13.4	9.1	5.9	432
SSP30-6.0-7	30	6.0 x 30.0	7	3 x 5	1.00 x 36 x 4	11.5	27.5	19.9	14.1	512
SSP30-6.0-3	30	6.0 x 30.0	3	3 x 5	1.00 x 36 x 4	12	34.3	25.3	18.5	645
SSP35-5.0-7	35	5.0 x 35.0	7	3 x 5	1.00 x 36 x 4	11	7.2	3.7	1	491
SSP35-6.0-7	35	6.0 x 35.0	7	3 x 5	1.00 x 36 x 4	11.5	15	9.5	5.3	584
SSP35-6.0-3	35	6.0 x 35.0	3	3 x 5	1.00 x 36 x 4	12	19.7	13.2	8.2	739
SSP39-6.0-7	39	6.0 x 39.0	7	3 x 5	1.00 x 36 x 4	11.5	9.2	4.3	0.6	642
SSP39-6.0-3	39	6.0 x 39.0	3	3 x 5	1.00 x 36 x 4	12	13	7.4	3.1	814

**FINISHES**

- |  |  |   |  |
|--|--|---|--|
| <p><b>Standard</b></p> <p>BRZ Bronze</p> <p>BLK Black</p> <p>GRY Gray</p> <p>GRN Green</p> <p>WHT White</p> <p>    P Primed</p> <p>    NA Natural Aluminum</p> | <p><b>Galvanized</b></p> <p>G Galvanized</p> | <p><b>K-KLAD</b></p> <p>K813 Bronze</p> <p>K821 Black</p> <p>K841 Gray</p> <p>K891 Green</p> <p>K881 White</p> <p>K845 Natural Aluminum</p> | <p><b>K-KLAD Over Galvanizing</b></p> <p>KZ13 Bronze</p> <p>KZ21 Black</p> <p>KZ41 Gray</p> <p>KZ91 Green</p> <p>KZ81 White</p> <p>KZ45 Natural Aluminum</p> |
|--|--|---|--|

	Project 18-33657-0 Hasler Valley Road Solid Waste  Submitted By RKL SALES CORP	Catalog Number SSP 20 4.0 11 DM10 BRZ  Notes	Type <b>S4</b>
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**1 YEAR WARRANTY**

**5 YEAR WARRANTY**


**10 YEAR WARRANTY**

**MOUNTING DESIGNATIONS**

Tenon Mount

- 2** 2 3/8" x 4" TENON
- 3** 2 7/8" x 4" TENON
- 3.5** 3 1/2" x 6" TENON
- 4** 4" x 6" TENON

Drill Mount

-  **DM10** Drilled for 1 Luminaire
- DM2090** Drilled for 2 Luminaires @ 90°
- DM2180** Drilled for 2 Luminaires @ 180°
- DM3090** Drilled for 3 Luminaires @ 90°
- DM4090** Drilled for 4 Luminaires @ 90°

Open Mount

- OT** Open Top
- OTC** Open Top includes Pole Cap

Gain Mount


- 1GSS4** (1) CXA
- 2GSS4** (2) CXA's located on the Same Side
- 3GSS4** (3) CXA's located on the Same Side
- 4GSS4** (4) CXA's located on the Same Side
- 2GBB4** (2) CXA's located Back to Back
- 4GBB4** (4) CXA's located Back to Back
- 1GSS9** (1) CXASQ
- 2GSS9** (2) CXASQ's located on the Same Side
- 3GSS9** (3) CXASQ's located on the Same Side
- 4GSS9** (4) CXASQ's located on the Same Side
- 2GBB9** (2) CXASQ's located Back to Back
- 4GBB9** (4) CXASQ's located Back to Back

**OPTIONS**

There are numerous options that can be ordered. Please indicate these selections under the options column in the catalog number. Example: CPL-WPR2-BC.

Accessories

- BC** Base Cover
- CPL** Threaded Coupling\*
- NPL** Threaded Nipple\*
- WPRP** Festoon Opening\*\*

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Optional Handholes

- 58HH** 5" x 8" Handhole\*
- 410HH** 4" x 10" Handhole\*

Extra Handholes

- XHH** Extra Handhole\*

Embedment Pole Options

- E** Embedded Pole
- GS** Ground Sleeve
- CTE** Coal Tar Epoxy

<b>For Embedment Poles:</b>	
Recommended Mounting Height	Recommended Embedment Depth
Less than 20'	4'
20' - 33'	6'
Greater than 33'	7'

Additional Simplex

- 1S** 1 @ 0° \*
- 2S** 2 @ 180° \*
- 3S** 3 @ 90° \*
- 4S** 4 @ 90° \*

Greater embedment depths are available upon request.  
Embedment poles greater than 35' are not available.

\* Please advise size, location, and orientation. (Handholes are restricted by size of pole shaft diameter)  
\*\* Located 24" above baseplate and same side as handhole. (No electrical included)

**PACKAGING**

Immediately after coating, the lighting standard including the baseplate shall be wrapped in heavy corrugation specially designed and sized to achieve maximum protection in transit.

KW Industries, Inc. coating process system and stringent quality control procedures provide our customer the finest quality lighting standards in the industry.

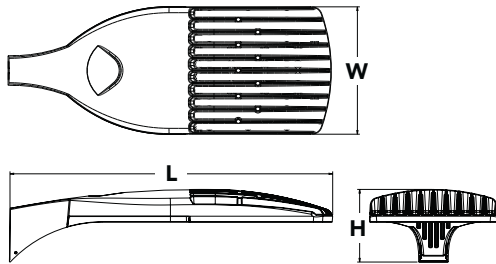


# D-Series Size 1 LED Area Luminaire



## Specifications

- EPA:** 1.01 ft<sup>2</sup> (0.09 m<sup>2</sup>)
- Length:** 33" (83.8 cm)
- Width:** 13" (33.0 cm)
- Height:** 7-1/2" (19.0 cm)
- Weight (max):** 27 lbs (12.2 kg)



Catalog Number	
Notes	
Type	

Hit the Tab key or mouse over the page to see all interactive elements.

## Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

- See ordering tree for details.
- A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

A+ Capable options indicated by this color background.

## Ordering Information

**EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA DDBXD**

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX1 LED	<b>Forward optics</b> P1 P4 P7 P2 P5 P8 P3 P6 P9 <b>Rotated optics</b> P10 <sup>1</sup> P12 <sup>1</sup> P11 <sup>1</sup> P13 <sup>1</sup>	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted <sup>2</sup>	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium TSVS Type V very short T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control <sup>2,3</sup> LCCO Left corner cutoff <sup>2,3</sup> RCCO Right corner cutoff <sup>2,3</sup>	MVOLT <sup>4,5</sup> 120 <sup>6</sup> 208 <sup>5,6</sup> 240 <sup>5,6</sup> 277 <sup>6</sup> 347 <sup>5,6,7</sup> 480 <sup>5,6,7</sup>	<b>Shipped included</b> SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor <sup>8</sup> RPUMBA Round pole universal mounting adaptor <sup>8</sup> <b>Shipped separately</b> KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>9</sup>

Control options	Other options	Finish (required)
<b>Shipped installed</b> PER NEMA twist-lock receptacle only (controls ordered separate) <sup>10</sup> PER5 Five-wire receptacle only (controls ordered separate) <sup>10,11</sup> PER7 Seven-wire receptacle only (controls ordered separate) <sup>10,11</sup> DMG 0-10V dimming extend out back of honsing for external control (leads exit fixture) DS Dual switching <sup>12,13</sup> PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc <sup>5,14,15</sup> PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc <sup>5,14,15</sup> PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>5,14,15</sup>	<b>Shipped installed</b> HS House-side shield <sup>19</sup> SF Single fuse (120, 277, 347V) <sup>8</sup> DF Double fuse (208, 240, 480V) <sup>8</sup> L90 Left rotated optics <sup>1</sup> R90 Right rotated optics <sup>1</sup> BS Bird spikes EGS External glare shield PIRH1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>5,14,15</sup> BL30 Bi-level switched dimming, 30% <sup>5,13,16</sup> BL50 Bi-level switched dimming, 50% <sup>5,13,16</sup> PNMTDD3 Part night, dim till dawn <sup>5,17</sup> PNMTSD3 Part night, dim 5 hrs <sup>5,17</sup> PNMT6D3 Part night, dim 6 hrs <sup>5,17</sup> PNMT7D3 Part night, dim 7 hrs <sup>5,17</sup> FAO Field adjustable output <sup>18</sup>	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

## Ordering Information

### Accessories

Ordered and shipped separately.

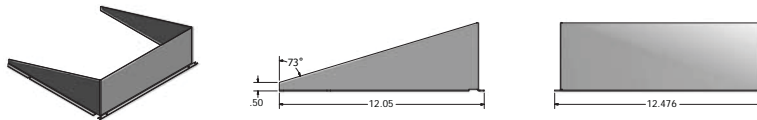
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>20</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>20</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>20</sup>
DSHORT SBK U	Shorting cap <sup>20</sup>
DSX1HS 30C U	House-side shield for 30 LED unit <sup>19</sup>
DSX1HS 40C U	House-side shield for 40 LED unit <sup>19</sup>
DSX1HS 60C U	House-side shield for 60 LED unit <sup>19</sup>
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) <sup>21</sup>
KMA8 DDBXD U	Max arm mounting bracket adaptor (specify finish) <sup>1</sup>

For more control options, visit [DTL](#) and [ROAM](#) online.

### NOTES

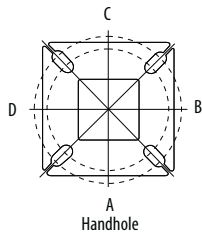
- P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
- AMBPC is not available with BLC, LCCO, RCCO or P4, P7, P8, P9 or P13.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Any PIRx with BL30, BL50 or PNMT, is not available with 208V, 240V, 347V, 480V or MVOLT. It is only available in 120V or 277V specified.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available in P1 or P10. Not available with BL30, BL50 or PNMT options.
- Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR. Node with integral dimming. Shorting cap included.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3 or P4.
- Requires (2) separately switched circuits.
- Reference Motion Sensor table on page 3.
- Reference PER table on page 3 to see functionality.
- Not available with 347V, 480V, PNMT, DS. For PER5 or PER7, see PER Table on page 3.
- Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7, see PER Table on page 3. Separate Dusk to Dawn required.
- Not available with other dimming controls options
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- For retrofit use only.

## External Glare Shield



## Drilling

### HANDHOLE ORIENTATION



### Tenon Mounting Slipfitter\*\*

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

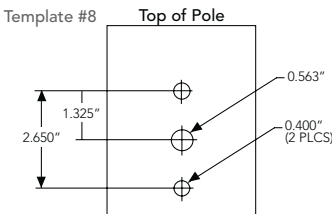
### Pole drilling nomenclature: # of heads at degree from handhole (default side A)

DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Round pole only	Side B, C, & D	Sides A, B, C, D

Note: Review luminaire spec sheet for specific nomenclature

Pole top or tenon O.D.	4.5" @ 90°	4" @ 90°	3.5" @ 90°	3" @ 90°	4.5" @ 120°	4" @ 120°	3.5" @ 120°	3" @ 120°
DSX SPA	Y	Y	Y	N	-	-	-	-
DSX RPA	Y	Y	N	N	Y	Y	Y	Y
DSX SPUMBA	Y	N	N	N	-	-	-	-
DSX RPUMBA	N	N	N	N	Y	Y	Y	N

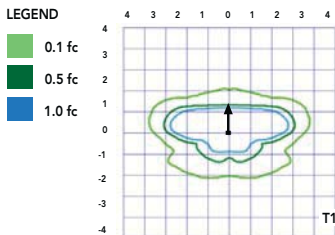
\*3 fixtures @ 120 require round pole top/tenon.



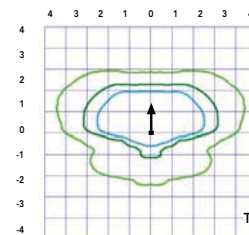
## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

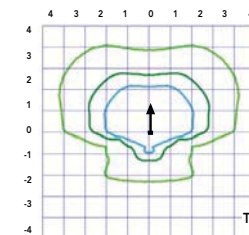
Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').



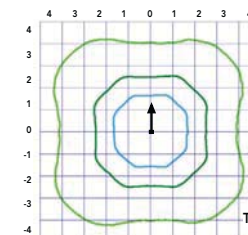
Test No. LTL23211 tested in accordance with IESNA LM-79-08.



Test No. LTL23164B tested in accordance with IESNA LM-79-08.



Test No. LTL23222 tested in accordance with IESNA LM-79-08.



Test No. LTL23271 tested in accordance with IESNA LM-79-08.



## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	1.04
5°C	1.04
10°C	1.03
15°C	1.02
20°C	1.01
<b>25°C</b>	<b>1.00</b>
30°C	0.99
35°C	0.98
40°C	0.97

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25000	50000	100000
Lumen Maintenance Factor	1.00	0.96	0.92	0.85

### Electrical Load

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

### Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

\*for use with Inline Dusk to Dawn or timer.

### PER Table

Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
		Wire 4/Wire5	Wire 4/Wire5	Wire 4/Wire5	Wire 6/Wire7	
Photocontrol Only (On/Off)	✓	▲	Wired to dimming leads on driver	▲	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	✗	✓	Wired to dimming leads on driver	▲	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion (ROAM on/off only)	✗	▲	Wires Capped inside fixture	▲	Wires Capped inside fixture	Wires Capped inside fixture
Future-proof*	✗	▲	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture
Future-proof* with Motion	✗	▲	Wires Capped inside fixture	✓	Wires Capped inside fixture	Wires Capped inside fixture

✓ Recommended
✗ Will not work
▲ Alternate

\*Future-proof means: Ability to change controls in the future.



### Performance Data

#### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics																												
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lu-mens	B	U	G	LPW				
40	1250	P6	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118									
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118									
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119									
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115									
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118									
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116									
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118									
				TSVS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123									
				T5S	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123									
				T5M	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123									
				T5W	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122									
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97									
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72									
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72									
				40	1400	P7	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115					
								T2S	19,206	3	0	3	105	20,690	3	0	3	113	20,952	3	0	3	114					
T2M	19,305	3	0					3	105	20,797	3	0	3	114	21,060	3	0	3	115									
T3S	18,696	3	0					3	102	20,141	3	0	3	110	20,396	3	0	4	111									
T3M	19,258	3	0					3	105	20,746	3	0	3	113	21,009	3	0	3	115									
T4M	18,840	3	0					4	103	20,296	3	0	4	111	20,553	3	0	4	112									
TFTM	19,246	3	0					4	105	20,734	3	0	4	113	20,996	3	0	4	115									
TSVS	20,017	4	0					1	109	21,564	4	0	1	118	21,837	4	0	1	119									
T5S	20,033	4	0					2	109	21,581	4	0	2	118	21,854	4	0	2	119									
T5M	19,983	4	0					2	109	21,527	5	0	3	118	21,799	5	0	3	119									
T5W	19,852	5	0					3	108	21,386	5	0	3	117	21,656	5	0	3	118									
BLC	15,780	2	0					3	86	16,999	2	0	3	93	17,214	2	0	3	94									
LCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70									
RCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70									
60	1050	P8	207W					T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119					
								T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118					
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119									
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115									
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119									
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116									
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119									
				TSVS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123									
				T5S	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123									
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123									
				T5W	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122									
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97									
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72									
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72									
				60	1250	P9	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116					
								T2S	25,548	3	0	4	106	27,522	3	0	4	114	27,871	3	0	4	116					
T2M	25,680	3	0					3	107	27,664	3	0	3	115	28,014	3	0	3	116									
T3S	24,870	3	0					4	103	26,791	3	0	4	111	27,130	3	0	4	113									
T3M	25,617	3	0					4	106	27,597	3	0	4	115	27,946	3	0	4	116									
T4M	25,061	3	0					4	104	26,997	3	0	4	112	27,339	3	0	4	113									
TFTM	25,602	3	0					4	106	27,580	3	0	4	114	27,929	3	0	4	116									
TSVS	26,626	5	0					1	110	28,684	5	0	1	119	29,047	5	0	1	121									
T5S	26,648	4	0					2	111	28,707	5	0	2	119	29,070	5	0	2	121									
T5M	26,581	5	0					3	110	28,635	5	0	3	119	28,997	5	0	3	120									
T5W	26,406	5	0					4	110	28,447	5	0	4	118	28,807	5	0	4	120									
BLC	20,990	2	0					3	87	22,612	2	0	3	94	22,898	2	0	3	95									
LCCO	15,619	2	0					4	65	16,825	2	0	4	70	17,038	2	0	4	71									
									15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71					

**Performance Data**

**Lumen Output**

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics																												
LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)				40K (4000 K, 70 CRI)				50K (5000 K, 70 CRI)				AMBPC (Amber Phosphor Converted)											
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
60	530	P10	106W	T1S	13,042	3	0	3	123	14,050	3	0	3	133	14,228	3	0	3	134	7,167	2	0	2	72				
				T2S	12,967	4	0	4	122	13,969	4	0	4	132	14,146	4	0	4	133	7,507	2	0	2	76				
				T2M	13,201	3	0	3	125	14,221	3	0	3	134	14,401	3	0	3	136	7,263	2	0	2	73				
				T3S	12,766	4	0	4	120	13,752	4	0	4	130	13,926	4	0	4	131	7,424	2	0	2	75				
				T3M	13,193	4	0	4	124	14,213	4	0	4	134	14,393	4	0	4	136	7,387	2	0	2	75				
				T4M	12,944	4	0	4	122	13,945	4	0	4	132	14,121	4	0	4	133	7,400	2	0	2	75				
				TFTM	13,279	4	0	4	125	14,305	4	0	4	135	14,486	4	0	4	137	7,288	1	0	2	74				
				TSVS	13,372	3	0	1	126	14,405	4	0	1	136	14,588	4	0	1	138	7,734	3	0	1	78				
				T5S	13,260	3	0	1	125	14,284	3	0	1	135	14,465	3	0	1	136	7,641	3	0	0	77				
				T5M	13,256	4	0	2	125	14,281	4	0	2	135	14,462	4	0	2	136	7,737	3	0	2	78				
				TSW	13,137	4	0	3	124	14,153	4	0	3	134	14,332	4	0	3	135	7,522	3	0	2	76				
				BLC	10,906	3	0	3	103	11,749	3	0	3	111	11,898	3	0	3	112									
				LCCO	7,789	1	0	3	73	8,391	1	0	3	79	8,497	1	0	3	80									
				RCCO	7,779	4	0	4	73	8,380	4	0	4	79	8,486	4	0	4	80									
				60	700	P11	137W	T1S	16,556	3	0	3	121	17,835	3	0	3	130	18,061	4	0	4	132	8,952	2	0	2	68
								T2S	16,461	4	0	4	120	17,733	4	0	4	129	17,957	4	0	4	131	9,377	2	0	2	72
T2M	16,758	4	0					4	122	18,053	4	0	4	132	18,281	4	0	4	133	9,072	2	0	2	69				
T3S	16,205	4	0					4	118	17,457	4	0	4	127	17,678	4	0	4	129	9,273	2	0	2	71				
T3M	16,748	4	0					4	122	18,042	4	0	4	132	18,271	4	0	4	133	9,227	2	0	2	70				
T4M	16,432	4	0					4	120	17,702	4	0	4	129	17,926	4	0	4	131	9,243	2	0	2	71				
TFTM	16,857	4	0					4	123	18,159	4	0	4	133	18,389	4	0	4	134	9,103	2	0	2	69				
TSVS	16,975	4	0					1	124	18,287	4	0	1	133	18,518	4	0	1	135	9,661	3	0	1	74				
T5S	16,832	4	0					1	123	18,133	4	0	2	132	18,362	4	0	2	134	9,544	3	0	1	73				
T5M	16,828	4	0					2	123	18,128	4	0	2	132	18,358	4	0	2	134	9,665	3	0	2	74				
TSW	16,677	4	0					3	122	17,966	5	0	3	131	18,193	5	0	3	133	9,395	4	0	2	72				
BLC	13,845	3	0					3	101	14,915	3	0	3	109	15,103	3	0	3	110									
LCCO	9,888	1	0					3	72	10,652	2	0	3	78	10,787	2	0	3	79									
RCCO	9,875	4	0					4	72	10,638	4	0	4	78	10,773	4	0	4	79									
60	1050	P12	207W					T1S	22,996	4	0	4	111	24,773	4	0	4	120	25,087	4	0	4	121					
								T2S	22,864	4	0	4	110	24,631	5	0	5	119	24,943	5	0	5	120					
				T2M	23,277	4	0	4	112	25,075	4	0	4	121	25,393	4	0	4	123									
				T3S	22,509	4	0	4	109	24,248	5	0	5	117	24,555	5	0	5	119									
				T3M	23,263	4	0	4	112	25,061	4	0	4	121	25,378	4	0	4	123									
				T4M	22,824	5	0	5	110	24,588	5	0	5	119	24,899	5	0	5	120									
				TFTM	23,414	5	0	5	113	25,223	5	0	5	122	25,543	5	0	5	123									
				TSVS	23,579	5	0	1	114	25,401	5	0	1	123	25,722	5	0	1	124									
				T5S	23,380	4	0	2	113	25,187	4	0	2	122	25,506	4	0	2	123									
				T5M	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123									
				TSW	23,165	5	0	4	112	24,955	5	0	4	121	25,271	5	0	4	122									
				BLC	19,231	4	0	4	93	20,717	4	0	4	100	20,979	4	0	4	101									
				LCCO	13,734	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72									
				RCCO	13,716	4	0	4	66	14,776	4	0	4	71	14,963	4	0	4	72									
				60	1250	P13	231W	T1S	25,400	4	0	4	110	27,363	4	0	4	118	27,709	4	0	4	120					
								T2S	25,254	5	0	5	109	27,205	5	0	5	118	27,550	5	0	5	119					
T2M	25,710	4	0					4	111	27,696	4	0	4	120	28,047	4	0	4	121									
T3S	24,862	5	0					5	108	26,783	5	0	5	116	27,122	5	0	5	117									
T3M	25,695	5	0					5	111	27,680	5	0	5	120	28,031	5	0	5	121									
T4M	25,210	5	0					5	109	27,158	5	0	5	118	27,502	5	0	5	119									
TFTM	25,861	5	0					5	112	27,860	5	0	5	121	28,212	5	0	5	122									
TSVS	26,043	5	0					1	113	28,056	5	0	1	121	28,411	5	0	1	123									
T5S	25,824	4	0					2	112	27,819	5	0	2	120	28,172	5	0	2	122									
T5M	25,818	5	0					3	112	27,813	5	0	3	120	28,165	5	0	3	122									
TSW	25,586	5	0					4	111	27,563	5	0	4	119	27,912	5	0	4	121									
BLC	21,241	4	0					4	92	22,882	4	0	4	99	23,172	4	0	4	100									
LCCO	15,170	2	0					4	66	16,342	2	0	4	71	16,549	2	0	4	72									
RCCO	15,150	5	0					5	66	16,321	5	0	5	71	16,527	5	0	5	72									



Project 18-33657-0  
 Hasler Valley Road Solid Waste

Submitted By  
 RKL SALES CORP

Catalog Number  
 DSX1 LED P2 40K T5W MVOLT SPA DDBXD

Notes

Type  
**S5**

## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

### CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft<sup>2</sup>) for optimized pole wind loading.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

### OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1

electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

### LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





## SSP Square Non-Tapered Steel Poles

### Pole Shaft

The pole shaft is one piece construction, being fabricated from a weldable grade carbon steel structural tubing which has a uniform wall thickness of 11 gauge (0.1196"), 7 gauge (0.1793"), or 3 gauge (0.2391"). The pole shaft material shall conform to ASTM A-500 Grade C with a minimum yield strength of 50,000 psi. The pole shaft has a full length longitudinal resistance weld and is uniformly square in cross-section with flat sides, small corner radii and excellent torsional properties.

### Base Plate

The anchor base is fabricated from structural quality hot rolled carbon steel plate that meets or exceeds a minimum yield strength of 36,000 psi. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom. All welds are performed in accordance with the American Welding Society specification AWS D1.1, latest edition.

### Anchor Bolts

Anchor bolts are fabricated from commercial quality hot rolled carbon steel bar that meets or exceeds a minimum yield strength of 55,000 psi. Four properly sized anchor bolts, each with two regular hex nuts and washers, are furnished and shipped with all poles unless otherwise specified. Anchor bolts shall have the threaded end galvanized a minimum of 8 inches in accordance with ASTM A-153. Fully galvanized anchor bolts are available upon request.

### Handhole

An oval reinforced gasketed handhole, having a nominal 3" x 5" or 4" x 6-1/2" inside opening, located 1'-6" above base, is standard on all poles. Optional 5" x 8" and 4" x 10" handholes are available (see options). A grounding provision is located inside the handhole ring.

### Finishes

The [Standard Finish](#) is a polyester thermosetting powder coating applied to the surface of the substrate to a minimum of 3 mils for all color finishes. [Hot dip Galvanized](#) finish to a ASTM A-123 specification or primed finish is also available. For optional finishes, see [K-KLAD](#) and [K-KLAD Over Galvanizing](#).

### HOW TO ORDER

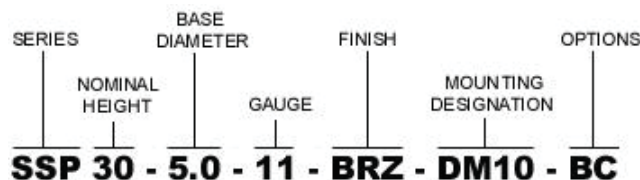
When ordering KW lighting standards, mounting adaptors and accessories, be sure to specify the complete catalog number. Our catalog numbers reflect the precise specifications of the item ordered to ensure our customers will receive the product which meets their exact requirements.

The following explanation of the catalog numbers will be helpful in placing orders:



**SSP**

### CATALOG LOGIC - ORDERING SAMPLE





Project 18-33657-0  
 Hasler Valley Road Solid Waste  
 Submitted By  
 RKL SALES CORP

Catalog Number  
 SSP 20 4.0 11 DM10 BRZ FBC  
 Notes

Type  
**S5**

<u>Catalog Number</u>	<u>Nominal Height</u>	<u>Pole Shaft</u>	<u>Gauge</u>	<u>Handhole Size</u>	<u>Anchor Bolt</u>	<u>Bolt Circle</u>	<u>80 MPH</u>	<u>90 MPH</u>	<u>100 MPH</u>	<u>Ship WT.</u>
SSP10-4.0-11	10	4.0 x 10.0	11	3 x 5	0.75 x 17 x 3	8	42.1	33.5	27.1	87
SSP10-4.0-7	10	4.0 x 10.0	7	3 x 5	0.75 x 30 x 3	8	55	44	35.5	130
SSP10-5.0-11	10	5.0 x 10.0	11	3 x 5	1.00 x 36 x 4	11	58	44	34	151
SSP12-4.0-11	12	4.0 x 12.0	11	3 x 5	0.75 x 17 x 3	8	33.7	26.7	21.4	100
SSP12-4.0-7	12	4.0 x 12.0	7	3 x 5	0.75 x 30 x 3	8	47.5	37.3	29.8	150
SSP12-5.0-11	12	5.0 x 12.0	11	3 x 5	1.00 x 36 x 4	11	49	38	29	168
SSP14-4.0-11	14	4.0 x 14.0	11	3 x 5	0.75 x 17 x 3	8	27.4	21.5	17.1	113
SSP14-4.0-7	14	4.0 x 14.0	7	3 x 5	0.75 x 30 x 3	8	40	31	24.5	170
SSP14-5.0-11	14	5.0 x 14.0	11	3 x 5	1.00 x 36 x 4	11	40	30	23	184
SSP14-5.0-7	14	5.0 x 14.0	7	3 x 5	1.00 x 36 x 4	11	65	52	41.5	242
SSP15-4.0-11	15	4.0 x 15.0	11	3 x 5	0.75 x 17 x 3	8	20.7	16.1	12.6	119
SSP15-4.0-7	15	4.0 x 15.0	7	3 x 5	0.75 x 30 x 3	8	30.9	24.4	19.6	172
SSP15-5.0-11	15	5.0 x 15.0	11	3 x 5	1.00 x 36 x 4	11	36	27.5	21	192
SSP15-5.0-7	15	5.0 x 15.0	7	3 x 5	1.00 x 36 x 4	11	59	46.5	37	254
SSP16-4.0-11	16	4.0 x 16.0	11	3 x 5	0.75 x 17 x 3	8	18.7	14.4	11.2	125
SSP16-4.0-7	16	4.0 x 16.0	7	3 x 5	0.75 x 30 x 3	8	27.2	20.7	16	210
SSP16-5.0-11	16	5.0 x 16.0	11	3 x 5	1.00 x 36 x 4	11	33.5	25	18	201
SSP16-5.0-7	16	5.0 x 16.0	7	3 x 5	1.00 x 36 x 4	11	54	43	34	266
SSP18-4.0-11	18	4.0 x 18.0	11	3 x 5	0.75 x 17 x 3	8	15.2	11.5	8.7	138
SSP18-4.0-7	18	4.0 x 18.0	7	3 x 5	0.75 x 30 x 3	8	27.2	20.7	16	210
SSP18-5.0-11	18	5.0 x 18.0	11	3 x 5	1.00 x 36 x 4	11	27	19.5	15	218
SSP18-5.0-7	18	5.0 x 18.0	7	3 x 5	1.00 x 36 x 4	11	46	36	28	291
SSP20-4.0-11	20	4.0 x 20.0	11	3 x 5	0.75 x 17 x 3	8	12.3	9	6.5	151
SSP20-4.0-7	20	4.0 x 20.0	7	3 x 5	0.75 x 30 x 3	8	19.6	15	11.5	219
SSP20-5.0-11	20	5.0 x 20.0	11	3 x 5	1.00 x 36 x 4	11	22.2	16.8	12.6	235
SSP20-5.0-7	20	5.0 x 20.0	7	3 x 5	1.00 x 36 x 4	11	35.4	27.5	21.5	313
SSP20-6.0-7	20	6.0 x 20.0	7	3 x 5	1.00 x 36 x 4	11.5	56	42.5	33.5	368
SSP22-4.0-11	22	4.0 x 22.0	11	3 x 5	0.75 x 17 x 3	8	6.9	4.3	2.3	182
SSP22-4.0-7	22	4.0 x 22.0	7	3 x 5	0.75 x 30 x 3	8	12.2	8.7	6	266
SSP22-5.0-11	22	5.0 x 22.0	11	3 x 5	1.00 x 36 x 4	11	18.5	13.6	9.8	252
SSP22-5.0-7	22	5.0 x 22.0	7	3 x 5	1.00 x 36 x 4	11	30.2	23.2	17.8	337
SSP22-6.0-7	22	6.0 x 22.0	7	3 x 5	1.00 x 36 x 4	11.5	49	37.5	28	398
SSP24-4.0-7	24	4.0 x 24.0	7	3 x 5	0.75 x 30 x 3	8	12.2	8.7	6	266
SSP24-5.0-11	24	5.0 x 24.0	11	3 x 5	1.00 x 36 x 4	11	15.2	10.8	7.4	268
SSP24-5.0-7	24	5.0 x 24.0	7	3 x 5	1.00 x 36 x 4	11	25.8	19.4	14.6	361





Project 18-33657-0  
 Hasler Valley Road Solid Waste  
 Submitted By  
 RKL SALES CORP

Catalog Number  
 SSP 20 4.0 11 DM10 BRZ FBC  
 Notes

Type  
**S5**

SSP24-6.0-7	24	6.0 x 24.0	7	3 x 5	1.00 x 36 x 4	11.5	42	31.5	23	428
SSP25-4.0-11	25	4.0 x 25.0	11	3 x 5	0.75 x 17 x 3	8	6.9	4.3	2.3	182
SSP25-4.0-7	25	4.0 x 25.0	7	3 x 5	0.75 x 30 x 3	8	12.2	8.7	6	266
SSP25-5.0-11	25	5.0 x 25.0	11	3 x 5	1.00 x 36 x 4	11	13.8	9.5	6.3	276
SSP25-5.0-7	25	5.0 x 25.0	7	3 x 5	1.00 x 36 x 4	11	23.8	17.7	13.1	373
SSP25-6.0-7	25	6.0 x 25.0	7	3 x 5	1.00 x 36 x 4	11.5	39	28.5	21	443
SSP26-4.0-7	26	4.0 x 26.0	7	3 x 5	0.75 x 30 x 3	8	6.9	4	1	312
SSP26-5.0-11	26	5.0 x 26.0	11	3 x 5	1.00 x 36 x 4	11	12.4	8.3	5.2	284
SSP26-5.0-7	26	5.0 x 26.0	7	3 x 5	1.00 x 36 x 4	11	21.9	16.1	11.8	384
SSP26-6.0-7	26	6.0 x 26.0	7	3 x 5	1.00 x 36 x 4	11.5	35.5	25.5	18.5	457
SSP28-4.0-7	28	4.0 x 28.0	7	3 x 5	0.75 x 30 x 3	8	6.9	4	1	312
SSP28-5.0-11	28	5.0 x 28.0	11	3 x 5	1.00 x 36 x 4	11	9.8	6.1	3.2	300
SSP28-5.0-7	28	5.0 x 28.0	7	3 x 5	1.00 x 36 x 4	11	18.4	13.2	9.2	408
SSP28-6.0-7	28	6.0 x 28.0	7	3 x 5	1.00 x 36 x 4	11.5	30	21.5	15	487
SSP30-4.0-7	30	4.0 x 30.0	7	3 x 5	0.75 x 30 x 3	8	6.9	4	1	312
SSP30-5.0-11	30	5.0 x 30.0	11	3 x 5	1.00 x 36 x 4	11	6.5	3.5	1.2	315
SSP30-5.0-7	30	5.0 x 30.0	7	3 x 5	1.00 x 36 x 4	11	13.4	9.1	5.9	432
SSP30-6.0-7	30	6.0 x 30.0	7	3 x 5	1.00 x 36 x 4	11.5	27.5	19.9	14.1	512
SSP30-6.0-3	30	6.0 x 30.0	3	3 x 5	1.00 x 36 x 4	12	34.3	25.3	18.5	645
SSP35-5.0-7	35	5.0 x 35.0	7	3 x 5	1.00 x 36 x 4	11	7.2	3.7	1	491
SSP35-6.0-7	35	6.0 x 35.0	7	3 x 5	1.00 x 36 x 4	11.5	15	9.5	5.3	584
SSP35-6.0-3	35	6.0 x 35.0	3	3 x 5	1.00 x 36 x 4	12	19.7	13.2	8.2	739
SSP39-6.0-7	39	6.0 x 39.0	7	3 x 5	1.00 x 36 x 4	11.5	9.2	4.3	0.6	642
SSP39-6.0-3	39	6.0 x 39.0	3	3 x 5	1.00 x 36 x 4	12	13	7.4	3.1	814

**FINISHES**

**Standard**

- BRZ** Bronze
- BLK** Black
- GRY** Gray
- GRN** Green
- WHT** White
- P** Primed
- NA** Natural Aluminum

**Galvanized**

- G** Galvanized


**K-KLAD**

- K813** Bronze
- K821** Black
- K841** Gray
- K891** Green
- K881** White
- K845** Natural Aluminum

**K-KLAD Over Galvanizing**

- KZ13** Bronze
- KZ21** Black
- KZ41** Gray
- KZ91** Green
- KZ81** White
- KZ45** Natural Aluminum



	Project 18-33657-0 Hasler Valley Road Solid Waste  Submitted By RKL SALES CORP	Catalog Number SSP 20 4.0 11 DM10 BRZ FBC  Notes	Type <b>S5</b>
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**1 YEAR WARRANTY**

**5 YEAR WARRANTY**

**10 YEAR WARRANTY**

**MOUNTING DESIGNATIONS**

Tenon Mount

- 2** 2 3/8" x 4" TENON
- 3** 2 7/8" x 4" TENON
- 3.5** 3 1/2" x 6" TENON
- 4** 4" x 6" TENON

Drill Mount



- DM10** Drilled for 1 Luminaire
- DM2090** Drilled for 2 Luminaires @ 90°
- DM2180** Drilled for 2 Luminaires @ 180°
- DM3090** Drilled for 3 Luminaires @ 90°
- DM4090** Drilled for 4 Luminaires @ 90°

Open Mount

- OT** Open Top
- OTC** Open Top includes Pole Cap

Gain Mount


- 1GSS4** (1) CXA
- 2GSS4** (2) CXA's located on the Same Side
- 3GSS4** (3) CXA's located on the Same Side
- 4GSS4** (4) CXA's located on the Same Side
- 2GBB4** (2) CXA's located Back to Back
- 4GBB4** (4) CXA's located Back to Back
- 1GSS9** (1) CXASQ
- 2GSS9** (2) CXASQ's located on the Same Side
- 3GSS9** (3) CXASQ's located on the Same Side
- 4GSS9** (4) CXASQ's located on the Same Side
- 2GBB9** (2) CXASQ's located Back to Back
- 4GBB9** (4) CXASQ's located Back to Back

**OPTIONS**

There are numerous options that can be ordered. Please indicate these selections under the options column in the catalog number. Example: CPL-WPR2-BC.

Accessories

- BC** Base Cover
- CPL** Threaded Coupling\*
- NPL** Threaded Nipple\*
- WPRP** Festoon Opening\*\*

 <b>SALES CORPORATION</b> <small>MANUFACTURERS REPRESENTATIVES</small>	Project 18-33657-0 Hasler Valley Road Solid Waste  Submitted By RKL SALES CORP	Catalog Number SSP 20 4.0 11 DM10 BRZ FBC  Notes	Type <b>S5</b>
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Optional Handholes

- 58HH** 5" x 8" Handhole\*
- 410HH** 4" x 10" Handhole\*

Extra Handholes

- XHH** Extra Handhole\*

Embedment Pole Options

- E** Embedded Pole
- GS** Ground Sleeve
- CTE** Coal Tar Epoxy

**For Embedment Poles:**

Recommended Mounting Height	Recommended Embedment Depth
Less than 20'	4'
20' - 33'	6'
Greater than 33'	7'

Additional Simplex

- 1S** 1 @ 0° \*
- 2S** 2 @ 180° \*
- 3S** 3 @ 90° \*
- 4S** 4 @ 90° \*

Greater embedment depths are available upon request.  
Embedment poles greater than 35' are not available.

\* Please advise size, location, and orientation. (Handholes are restricted by size of pole shaft diameter)  
\*\* Located 24" above baseplate and same side as handhole. (No electrical included)

**PACKAGING**

Immediately after coating, the lighting standard including the baseplate shall be wrapped in heavy corrugation specially designed and sized to achieve maximum protection in transit.

KW Industries, Inc. coating process system and stringent quality control procedures provide our customer the finest quality lighting standards in the industry.

**F2.8.1**



# NAVILITE EXIT & EMERGENCY

## ARCHITECTURAL LED EMERGENCY LIGHTS

### N5L Series

Project: \_\_\_\_\_  
 Fixture Type: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Contact/Phone: \_\_\_\_\_

**PRODUCT DESCRIPTION**

Navilite N5L Architectural Emergency Lights offer rugged construction, quick installation and premium standard features such as die cast aluminum construction, polyester powder coat finish, high lumen output LED engine, and long life NiCad battery. Photozell sensor standard. Available for indoor and outdoor installations, the N5L is ideal for hotels, shopping malls, and office buildings where design continuity is desired between the indoor and outdoor lighting.

**PRODUCT SPECIFICATIONS**

**Construction** Die cast aluminum housing • Scratch resistant Polyester powder coat finish • UV stabilized polycarbonate lens with prismatic pattern designed for path of egress distribution • Molded mirror finish reflector • Snap-fit housing and mounting plate are held together by four stainless steel clips • Universal mounting pattern molded into the back plate • Threaded top access for surface conduit installation • Silicone rubber seal with hollow center, shape adaptive design protects the electrical components • Junction box neoprene seal is attached to the back plate for a weather proof installation • White or Dark Bronze textured finish.

**Electrical** Universal input voltage capability (120 through 277V, 50 or 60Hz) • Solid state charging and switching • Battery low voltage disconnect • AC power indicator and test switch at the bottom of the unit • Available with Self Test and Self Diagnostics (SDCB option).

**Lamps** Supplied with an all LED engine.  
 • Can be used as Normally-ON or Normally-off light as well as on a switched circuit • 1286 lumens in AC mode and 350 lumens in EM mode.

**Battery** Maintenance-free 4.8V NiCad battery will operate fixture for a minimum of 90 minutes in the event of a power outage • Optional cold weather battery with heater is available for temperatures -22°F to 122°F (-30°C - 50°C) (SDCB option).

**Code Compliance** UL924 Listed • Wet location listed • NFPA 101 Life Safety Code compliant • NEC and OSHA compliant.

**Warranty** 5-year limited warranty. (Battery is prorated.)  
 Complete warranty terms located at:  
[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

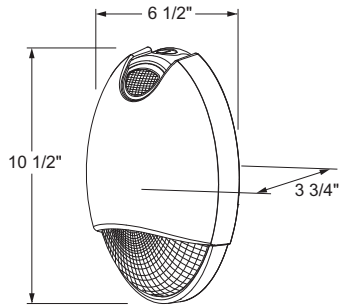
**Note:** Actual performance may differ as a result of end-user environment and application.  
 All values are design or typical values, measured under laboratory conditions at 25°C.  
 Specifications subject to change without notice.

**INSTALLATION**

**Mounting** Suitable for indoor or outdoor wall mounting on junction box, or with surface conduit using the supplied threaded top access • Mounting plate has molded universal mounting pattern for simple mounting over junction box.



**DIMENSIONS**



**ENGINEERING DATA**

Item	Input Voltage	Max. Amps	Max. Watts
Standard Unit	120-277V	0.04	2.5
SDCB	120-277V	0.026	2.8

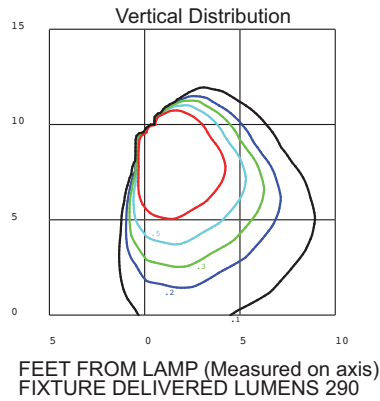
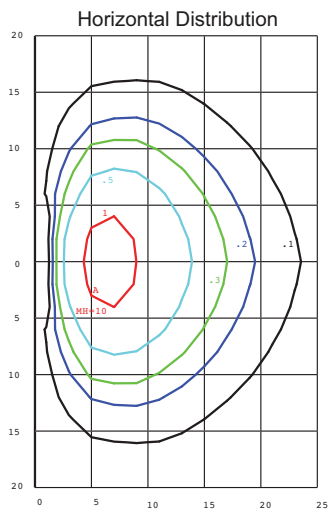
**ORDERING INFORMATION**

Catalog Number	Description	Finish	Input Voltage	Output Voltage
N5LWUSD	LED Architectural Emergency Light with self-diagnostics	White	120/277 VAC	4.8V
N5LBZSD	LED Architectural Emergency Light with self-diagnostics	Bronze	120/277 VAC	4.8V
N5LWUSD CB	LED Architectural Emergency Light with self-diagnostics and cold weather battery	White	120/277 VAC	4.8V
N5LBZSD CB	LED Architectural Emergency Light with self-diagnostics and cold weather battery	Bronze	120/277 VAC	4.8V

**F2.8.1**

**NAVILITE EXIT & EMERGENCY**  
ARCHITECTURAL LED  
EMERGENCY LIGHTS  
**N5L Series**

**PHOTOMETRICS**



1286 lumens in AC mode and 350 lumens in EM mode.

**BATTERY DATA**

- Recharges in 48 hours or less

Type	Battery Voltage	Typical Shelf Life <sup>1</sup>	Typical Life <sup>1</sup>	Ambient Temperature Range <sup>2</sup>
NiCad	4.8V	3 years	5-7 years	32°F to 122°F (0° – 50°C)
NiCad with heater (SDCB option)	4.8V	3 years	5-7 years	-22°F to 122°F (-30°C – 50°C)

<sup>1</sup> At 77°F



## FEATURES & SPECIFICATIONS

**INTENDED USE** — Ideal for applications requiring attractive, quick-installation exit signs and low energy consumption.

**CONSTRUCTION** — Engineering-grade thermoplastic housing is impact-resistant, scratch-resistant, and corrosion-proof. UL94V-0 flame rating. UV-stable resin resists discoloration from natural and man-made light sources.

Rugged unibody housing snaps together with no additional mechanical fasteners. Faceplate and back cover are interchangeable on housing. Positive snap-fit tabs hold faceplate securely, yet easily removable for lamp compartment access.

Universal directional Chevron inserts are easily removed and reinserted. Uniform illumination without shadows or hot spots. Reinforced, impact-resistant color panels. Letters 6" high with 3/4" stroke, with 100 ft. viewing distance rating, based upon UL924 standards.

**U.S. Patent No. 5,526,251; 5,611,163; 5,739,639; 5,954,423; 5,988,825; 6,152,581; D383,501; D495,751 and 6,502,044. Other patents pending.**

**OPTICS** — LEDs mounted on printed circuit boards. Low energy consumption – less than one watt. LED lamp operates in normal (AC input) and emergency (DC input) modes.

The typical life of the exit LED lamp is 10 years.

**ELECTRICAL** — Dual voltage input capability (120/277V).

Low-voltage disconnect prevents excessively deep discharge that can permanently damage battery. Conveniently located test switch and LED provide visual and manual means of monitoring system.

Constant-current series charger minimizes energy consumption and provides low operating costs. Printed circuit boards are 100% quality tested during manufacturing. Current-limiting charger circuitry protects printed circuit boards from shorts.

AC/LV reset (line latch) allows battery connection before AC power is applied and aids in preventing battery damage from deep discharge.

Crystal oscillator timing system with watchdog protection for precision accuracy.

Brownout protection is automatically switched to emergency mode when supply voltage drops below 80% of nominal.

Battery: Sealed, maintenance-free nickel-cadmium battery delivers 90-minutes capacity to emergency lamps. Two-state constant-current charge maximizes battery life and automatically recharges after battery discharge.

Diagnostics: Single-point microcomputer control for all electronic features.

Single multi-chromatic LED indicator to display two-state charging, test activation and three-state diagnostic status.

Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection. Self-diagnostic testing for five minutes every 30 days and 30 minutes every six months.

Diagnostic evaluation of LED light source, AC to DC transfer, charging and battery condition. Continuously monitors AC functionality.

**INSTALLATION** — Universal (top-, end-, or back-) mounting. Easily removed mounting knockouts. J-box pattern on back panel. Housing snaps to canopy with four positive-locking tabs. Cam-locking pin tightly secures housing to canopy.

Ships standard with additional face plate.

**LISTINGS** — UL damp location listed 50°-104°F (10°-40°C) standard. NOM Certified (see options). Meets UL924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards. NEMA Premium certified.

Meets all applicable FCC requirements.



Thermoplastic Exits

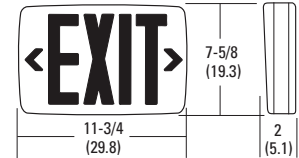
LQM

LED LAMPS



### Specifications

Length: 11-3/4 (29.8)  
Depth: 2 (5.1)  
Height: 7-5/8 (19.3)  
Weight: 2.6 lbs (1.2 kgs)



All dimensions are inches (centimeters) unless otherwise specified.

**WARRANTY** — 5-year limited warranty. (Battery is prorated.) Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

### ORDERING INFORMATION

For shortest lead times, configure product using **bolded options**.

**Example:** LQM S W 3 R 120/277 EL N

LQM	Family	Face type	Housing color	Number of faces	Letter color	Input voltage <sup>2</sup>	Operation	Options
	<b>LQM</b>	<b>S</b> Stencil P Panel <sup>1</sup>	<b>(blank)</b> Black <b>W</b> White	<b>3</b> Single face with extra faceplate and color panel	<b>R</b> Red <b>G</b> Green	<b>120/277</b> Dual voltage	<b>(blank)</b> AC only <b>X2</b> Primary and secondary AC inputs provided <sup>3</sup> <b>EL N</b> Nickel cadmium battery	<b>(blank)</b> None NOM NOM certified for Mexico <sup>4</sup> <b>SD</b> Self-diagnostics <sup>5</sup> SDFIFA Self-diagnostics, fire alarm flashing interface and flashing emergency operation and intermittent audible alarm (one flash/one second) <sup>6</sup>

Accessories: Order as separate item.			
ELA WG1	Back-mount wireguard <sup>6</sup>	ELA WGEXE	End-mount wireguard <sup>6</sup>
ELA WGEXT	Top-mount wireguard <sup>6</sup>	ELA LQMUS12	12" stem kit <sup>7</sup>

### Notes

- 1 Only available in custom signage. See spec sheet, [Custom-Signage](#).
- 2 Some special voltages available. Consult factory.
- 3 Must specify input voltage 120 or 277. Not available with other options.
- 4 Available with stencil or panel faces in white housing.
- 5 Only available with EL N operation.
- 6 See spec sheet [ELA-WG](#).
- 7 See spec sheet [ELA-Stemkits](#).

## LQM LED, Quantum®

### SPECIFICATIONS

ELECTRICAL				
Primary Circuit				
Type <sup>1</sup>	Typical LED life <sup>2</sup>	Supply voltage	Input watts	Max. amps
Red LED AC Only	10 years	120	.62	.05
		277	.69	.06
Green LED AC Only	10 years	120	.62	.05
		277	.74	.06
Red LED Emergency	10 years	120	.71	.05
		277	.92	.06
Green LED Emergency	10 years	120	.66	.05
		277	.70	.06

BATTERY				
Nickel Cadmium				
Voltage	Shelf life <sup>3</sup>	Typical life <sup>3</sup>	Maintenance <sup>4</sup>	Optimum temperature <sup>5</sup>
1.2	3 years	7-9 years	none	50°F - 104°F (10°C - 40°C)

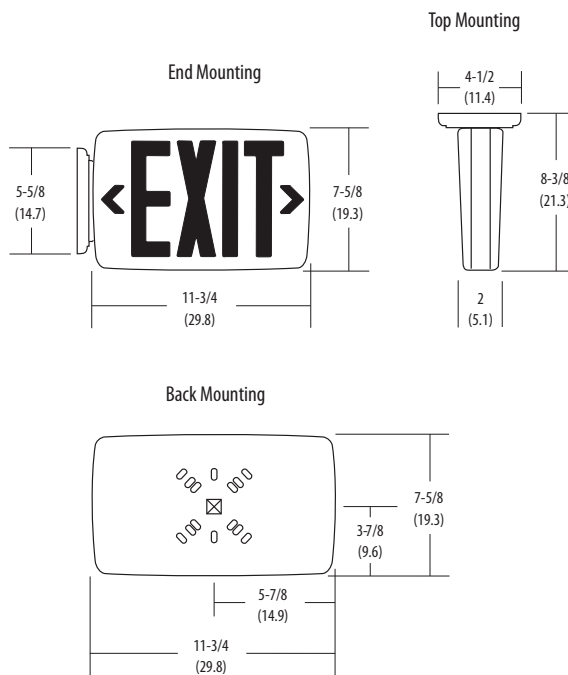
#### Notes

- LED lamps operate in normal (AC input) and emergency (DC input) modes.
- Based on continuous operation. The typical life of the exit LED lamp is 10 years.
- At 77°F (25°C).
- All life safety equipment, including emergency lighting for path of egress must be maintained, serviced and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.
- Optimum ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity.

### MOUNTING

All dimensions are inches (centimeters) unless otherwise specified.

Shipping weight: 2.6 lbs. (1.2 kgs.)





## FEATURES & SPECIFICATIONS

### INTENDED USE

Combination emergency lighting unit and exit. Suitable for illuminating the path of egress and for marking the means of egress in accordance with Life Safety Code NFPA 101.

### CONSTRUCTION

Injection-molded, flame-retardant, high-impact, thermoplastic housing with snap-fit design components for easy installation. Universal J-box pattern. Universal chevrons are easily removed for directional indication. Fully assembled single face with extra faceplate for easy field-conversion to double face. Track and swivel arrangement permits full range of lamp adjustment.

Letters 6" high with 3/4" stroke, with 100 ft viewing distance rating, based on UL924 standards.

### OPTICS

The typical life of the LED lamp is 10 years. Two 1.8W LED lamps for emergency light.

### ELECTRICAL

Dual-voltage input 120V or 277V AC; 9.6V output. Emergency combo provided with test switch, status indicator and rechargeable battery. Maintenance-free nickel-cadmium battery provides 90 minutes of emergency power. High output (HO) option powers up to 2 LED remote lamps.

### LISTINGS

UL Listed. Meets UL 924, NFPA 101, NFPA 70-NEC and OSHA illumination standards. Indoor damp location 0°C to 50°C (32°F to 122°F) listed standard.

### WARRANTY

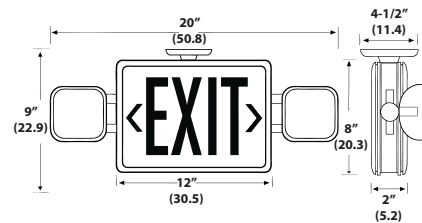
Fixtures are covered by Lithonia Lighting 24-month warranty against mechanical defects in manufacture. All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.

Contractor Select

# LED Exit/Unit Combos



ECR LED



All dimensions are inches (centimeters).  
Shipping weight: 3.6 lbs. (1.6 kgs.).


### ORDERING INFORMATION

Catalog Number	UPC	Description	Supply Voltage	Input Wattage	Pallet Qty.	Standard Carton Qty.
ECR LED M6	784231874516	Red	120/277	3.8	108	6
ECG LED M6	784231874592	Green	120/277	3.2	108	6
ECR LED HO M6	784231874561	Red, high output	120/277	3.8	108	6
ECG LED HO M6	784231874615	Green, high output	120/277	3.2	108	6

Accessories: Order as separate catalog number.	
ELA WG3	Wireguard (back mount only) <sup>1</sup>
ELA LED M12	Single remote lamp <sup>2,3</sup>
ELA LED T M12	Double remote lamp <sup>2,3</sup>
ELA LED WP M12	Single, weather-proof remote lamp <sup>2,3</sup>
ELA LED T WP M12	Double, weather-proof remote lamp <sup>2,3</sup>

### Notes

- See spec sheet [ELA-WG](#).
- See spec sheet [LED-Remote Lamps](#).
- Only available with HO option.

	Project 18-33657-0 Hasler Valley Road Solid Waste  Submitted By RKL SALES CORP	Catalog Number ECR LED M6  Notes	Type <b>EX</b>
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## Emergency LED Exit/Unit Combos

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## FEATURES & SPECIFICATIONS

**INTENDED USE** — Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Ideal for applications requiring attractive unit equipment with quick installation. **Certain airborne contaminants can diminish integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

**CONSTRUCTION** — White, compact, low-profile contemporary design. Engineering-grade thermoplastic housing is impact-resistant, scratch-resistant and corrosion-proof. UL94V-0 flame rating. UV-stable resin resists discoloration from natural and man-made light sources.

Low-profile, integrated test switch/pilot light. Easily visible bright red status indicator.

Unique track-and-swivel arrangement permits full range of direction of lamp head adjustment. Universal J-box mounting pattern. Tool-less access for maintenance.

**OPTICS** — Two LED lamp heads with polycarbonate lens, 12 series-parallel white LEDs each, provide redundant light sources to ensure emergency lighting performance. Typical LED lamp life is 10 years.

**ELECTRICAL** — Dual-voltage input capability (120/277V). Edge connector on printed circuit board ensures long-term durability.

Current-limiting charger maximizes battery life and minimizes energy consumption. Provides low operating costs.

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts.

Thermal compensation adjusts charger output to provide optimum charge voltage relative to ambient temperature.

Regulated charge voltage maintains constant-charge voltage over a wide range of line voltages. Prevents over/undercharging that shortens battery life and reduces capacity.

Filtered charger input minimizes charge voltage ripple and extends battery life.

AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

**BATTERY:** Sealed, maintenance-free nickel-cadmium battery delivers 90 minute capacity to emergency lamps. Two-state constant-current charge maximizes battery life and automatically recharges after battery discharge. Low-voltage disconnect prevents excessively deep discharge that can permanently damage the battery. Optional high-output battery available to power both local and optional LED remote lamp heads simultaneously.

**Self-Diagnostics (SD- Option)** Single multi-color LED indicator to display two-state charging, test activation and three-state diagnostic test. Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection. Self-diagnostic testing for 30 seconds every 30 days, 30 minutes at 180-day interval, and 90 minutes annually. Diagnostic evaluation of LED light source, AC to DC transfer, charging and battery condition.

**INSTALLATION** — Ceiling- or wall-mount standard. Flexible conduit entry provision on top of the unit.

**LISTINGS** — UL damp location listed standard 50-104°F (10-40°C). Meets UL 924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards.



Thermoplastic Emergency Light

# ELM2 LED



LED Lamp Head  
Ni-Cad Battery



**WARRANTY** — 5-year limited warranty. (Battery is prorated). Complete warranty terms located at [www.AcuityBrands.com/CustomResources/Terms\\_and\\_Conditions.aspx](http://www.AcuityBrands.com/CustomResources/Terms_and_Conditions.aspx).

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: ELM2 LED

ELM2 Series	LED Lamp type	Housing	Options
ELM2	LED Two 1.5W/3.6V white LED	(blank) White B Black	HO High-output ni-cad battery for 6W remote capacity <sup>1</sup> SD Self-diagnostics NOM Meets Mexican standards T20C California Title 20 Compliance <sup>2</sup>

### Accessories: Order as separate catalog number.

ELA Q L0304 SD	Single LED indoor remote head, white, self-diagnostics <sup>3,4,5</sup>	ELA Q L0304	Single LED indoor remote head, white <sup>3,4,5</sup>
ELA T Q L0304 SD	Twin LED indoor remote head, white, self-diagnostics <sup>3,4,5</sup>	ELA T Q L0304	Twin LED indoor remote head, white <sup>3,4,5</sup>
ELA QWP L0304 SD	Single LED weather-proof remote head, gray, self-diagnostics <sup>3,4,5</sup>	ELA QWP L0304	Single LED weather-proof remote head, gray <sup>3,5</sup>
ELA T QWP L0304 SD	Twin LED weather-proof remote head, gray, self-diagnostics	ELA T QWP L0304	Twin LED weather-proof remote head, gray <sup>3,5</sup>
ELA WG1	Wireguard, 15"W x 13-1/2"H x 6"D (See spec sheet <a href="#">ELA-WG</a> )	ELAVS	Thermoplastic vandal shield <sup>6</sup>

### Notes

- Not available with NOM.
- See T20C compliant [product list](#). Only available with ELM2 LED, ELM2 LED HO SD and ELM2 LED B HO SD.
- Only available with HO option. See spec sheet [ELA Q LED](#).
- Also available in black. Add "B" after ELA to order black finish. Example: ELA B Q L0304 SD. See spec sheet [ELA Q LED](#).
- Only compatible with Quantum LED series.
- See spec sheet [ELAVS-VS2](#).

## ELM2 LED QUANTUM® Thermoplastic Emergency Light

### SPECIFICATIONS

Electrical				
Primary Circuit				
Typical LED life <sup>1</sup>	Supply voltage	Max amps	Max watts	HO/max watts
10 years	120	.04	1.44	2.88
	277	.03	1.44	2.88

### BATTERY

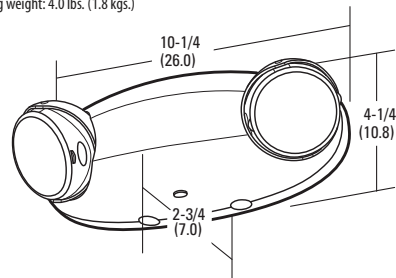
Ni-Cad				
Voltage	Shelf life <sup>2</sup>	Typical life <sup>2</sup>	Maintenance <sup>3</sup>	Optimum temperature <sup>4</sup>
3.6	3 years	7-9 years	none	50-104°F (10-40°C)

- Based on continuous operation.
- At 77°F (25°C).
- All life safety equipment, including emergency lighting path of egress, must be maintained, serviced and tested in accordance with all National Fire Protection Association and local codes. Failure to perform the required maintenance, service or testing could jeopardize the safety of occupants and will void all warranties.
- Optimum ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity.

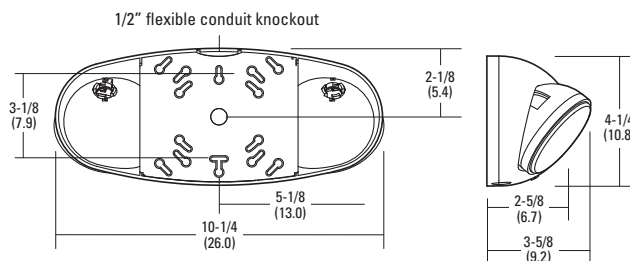
Remote Output Capacity	
Standard unit	Unit/HO battery
NA	6W

### MOUNTING

All dimensions are inches (centimeters).  
Shipping weight: 4.0 lbs. (1.8 kgs.)



### Mounting Plate

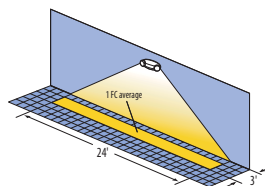


### LAMP PHOTOMETRICS

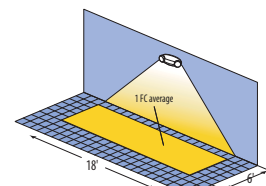
#### QUANTUM LED SERIES – SINGLE COVERAGE

3W Total White LEDs

Using a single unit at a typical 7.5' mounting height delivers an average illuminance of 1.0 FC over a distance of 24' on a 3' path of egress and 18' on a 6' path of egress.



Example of single ELM2 LED unit illuminating a 3' path of egress

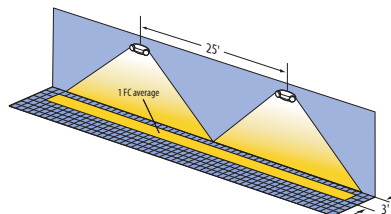


Example of single ELM2 LED unit illuminating a 6' path of egress

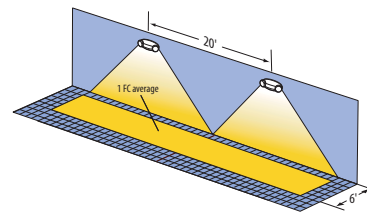
#### QUANTUM LED SERIES – MULTIPLE COVERAGE

3W Total White LEDs

Using multiple units at a typical 7.5' mounting height delivers 25' center-to-center spacing on a 3' path of egress and 20' center-to-center spacing on a 6' path of egress.



Example of multiple ELM2 LED units illuminating a 3' path of egress



Example of multiple ELM2 LED units illuminating a 6' path of egress

### EXTENDED RUN-TIME FOR HIGH-OUTPUT UNITS

Product	Run time
ELM2 LED HO (no remotes)	3.9 hours

\* Meets Life Safety Code standard minimum illuminance of 0.1 FC and average illuminance of 1.0 FC. Assumes open space with no obstructions, mounting height: 7.5', ceiling height: 9', and reflectances: 80/50/20. Analysis based on independently tested photometrics.