

## 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. 90 CRI optional.

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) 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 60,000 hours.

**LISTINGS** — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product.

**BUY AMERICAN** — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

**WARRANTY** — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

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

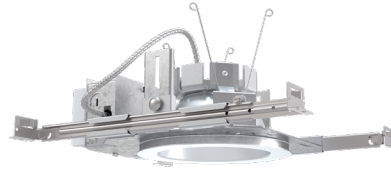
All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



A+ Capable options indicated by this color background.

Catalog Number
Notes
Type



# LDN6

**6" Open and WallWash LED  
Non-IC  
New Construction Downlight**



battery pack



### ORDERING INFORMATION

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

**Example:** LDN6 35/15 L06AR LSS MVOLT EZ10

LDN6 Series	Color temperature	Lumens <sup>1</sup>	Aperture/Trim Color	Finish	Voltage
LDN6 6" round	27/ 2700K	05 500 lumens	L06 Downlight	LSS Semi-specular	MVOLT Multi-volt
	30/ 3000K	07 750 lumens	LW6 Wallwash	LD Matte diffuse	120 120V
	35/ 3500K	10 1000 lumens		LS Specular	277 277V
	40/ 4000K	15 1500 lumens			347 <sup>3</sup> 347V
	50/ 5000K	20 2000 lumens			

Driver	Options
GZ10 0-10V driver dims to 10%	SF <sup>4</sup> Single fuse
GZ1 0-10V driver dims to 1%	TRW <sup>5</sup> White painted flange
D10 Minimum dimming 10% driver for use with JOT	TRBL <sup>5</sup> Black painted flange
D1 Minimum dimming 1% driver for use with JOT	EL <sup>6</sup> Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
EZ10 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%	ELR <sup>6</sup> Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
	ELSD <sup>6</sup> Emergency battery pack with self-diagnostics, integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	ELRSD <sup>6</sup> Emergency battery pack with self-diagnostics, remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS
	E10WCP <sup>6</sup> Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB
EDAB eldoLED DALI SOLDRIIVE dim to dark	E10WCPR <sup>6</sup> Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDB
	NPP16D <sup>7</sup> nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).
	NPP16DER <sup>7</sup> nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.
	N80 <sup>8</sup> nLight™ Lumen Compensation
	JOT <sup>13</sup> Wireless room control with "Just One Touch" pairing
	NPS80EZ <sup>7</sup> nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).
	NPS80EZER <sup>7</sup> nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.
	HAO <sup>11</sup> High ambient option
	CP <sup>12</sup> Chicago Plenum
	RRL___ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only in RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on <a href="http://www.acuitybrands.com">www.acuitybrands.com</a> for the RELOC product specifications.
	NLTAIR2 <sup>9, 10, 14</sup> nLight® Air enabled
	NLTAIRER2 <sup>9, 10</sup> nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options
	NLTAIREM2 <sup>9, 10</sup> nLight® AIR Dimming Pack Wireless Controls. UL924 Emergency Operation, via power interrupt detection. Available with battery pack options.
	BAA Buy America(n) Act Compliant
	90CRI High CRI (90+)

Accessories: Order as separate catalog number.	
PS1055CP	FMC Power Sentry battery pack, T20 compliant, field installable, 10w constant power
<a href="#">EAC ISSM 375</a>	Compact interruptible emergency AC power system
<a href="#">EAC ISSM 125</a>	Compact interruptible emergency AC power system
GRA68 JZ	Oversized trim ring with 8" outside diameter
SCA6	Sloped Ceiling Adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA6 10D

### Notes

- Overall height varies based on lumen package; refer to dimensional chart on page 3.
- Not available with finishes.
- Not available with emergency options.
- Must specify voltage 120V or 277V.
- Available with clear (AR) reflector only.
- 12.5" of plenum depth or top access required for battery pack maintenance.
- Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZER. Only available with EZ10 and EZ1 drivers.
- Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options.
- NLTAIR2, NLTAIRER2 and NLTAIREM2 not recommended for metal ceiling installations.
- Fixture height is 6.5" for all lumen packages with HAO.
- Must specify voltage for 3000lm and above. 5000lm with marked spacing 24 L x 24 W x 14 H. Not available with emergency battery pack option.
- Must specify D10 or D1 driver. Not available with nLight options. Not available with CP. Not recommended for metal ceiling installation. Not for use with emergency backup power systems other than battery packs.
- When combined with EZ1 or EZ10 drivers, can be used as a normal power sensing device for nLight AIR devices and luminaires with EM options.

# LDN6

## PHOTOMETRY

### Distribution Curve

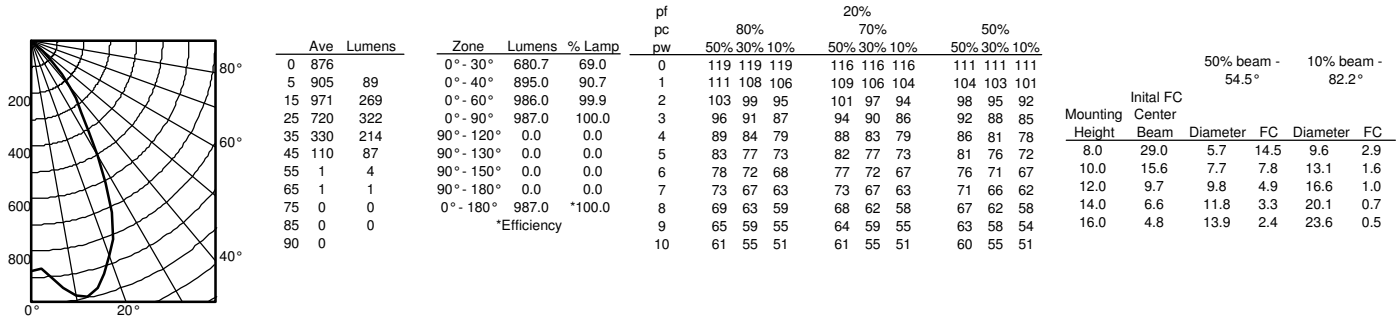
### Distribution Data

### Output Data

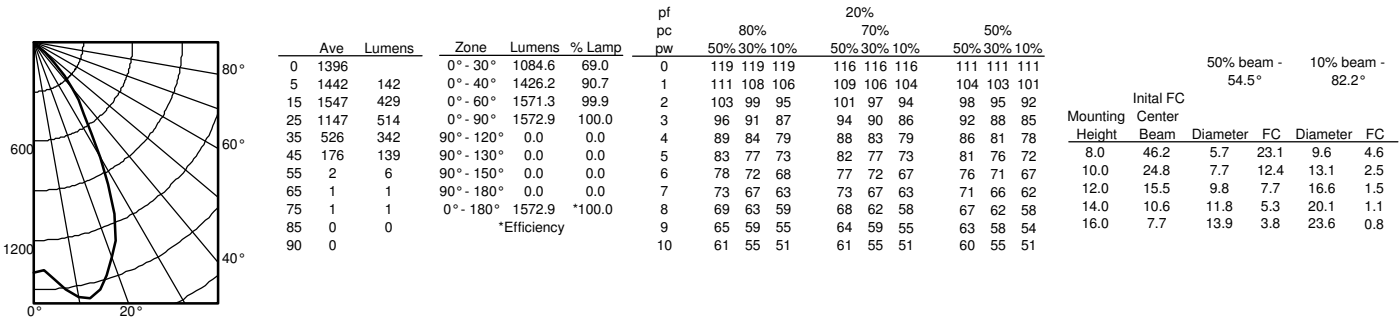
### Coefficient of Utilization

### Illuminance Data at 30" Above Floor for a Single Luminaire

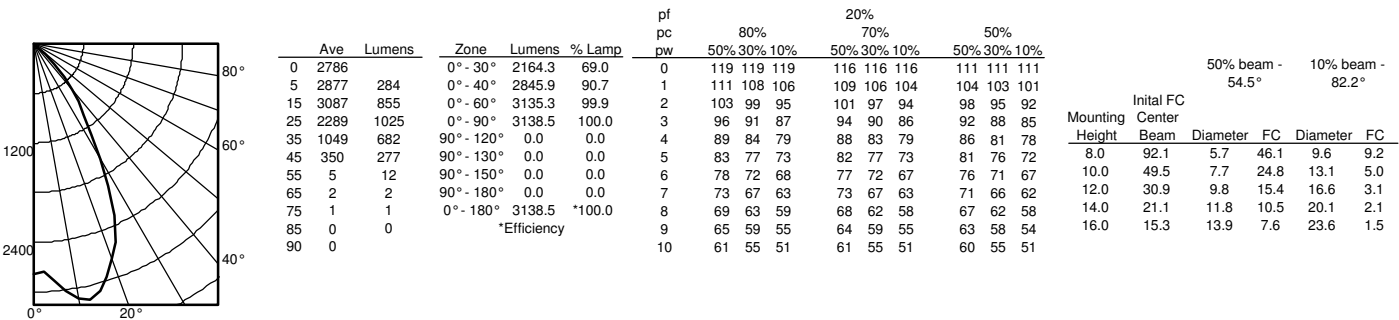
**LDN6 35/10 L06AR**, input watts: 10.44, delivered lumens: 987.10, LM/W = 94.54, spacing criterion at 0= 1.02, test no. ISF 30716P262.



**LDN6 35/15 L06AR**, input watts: 17.52, delivered lumens: 1572.9, LM/W = 89.77, spacing criterion at 0= 1.02, test no. ISF 30716P265.



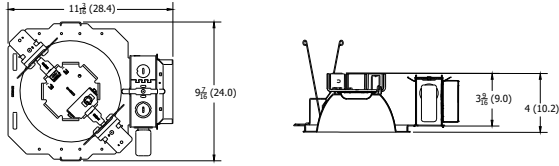
**LDN6 35/30 L06AR**, input watts: 34.75, delivered lumens: 3138.5, LM/W = 90.31, spacing criterion at 0= 1.02, test no. ISF 30716P274.



# LDN6

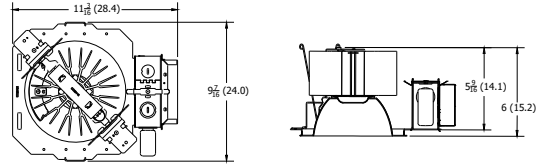
\* All dimensions are inches (centimeters) unless otherwise noted.

## LDN6 500 - 1500 LUMENS



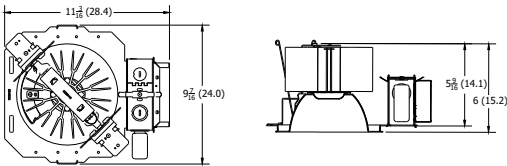
Aperture: 6-1/4 (15.9)  
Ceiling Opening: 7-1/8 (18.1)  
Overlap Trim: 7-1/2 (19.1)

## LDN6 2000 - 3000 LUMENS



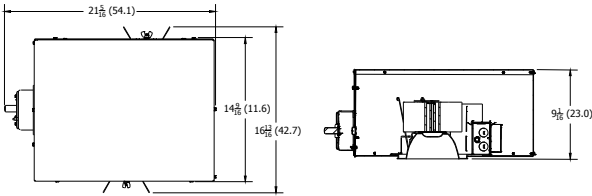
Aperture: 6-1/4 (15.9)  
Ceiling Opening: 7-1/8 (18.1)  
Overlap Trim: 7-1/2 (19.1)

## LDN6 4000 - 5000 LUMENS



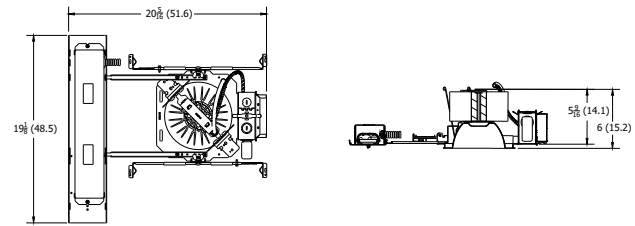
Marked Spacing: 24 x 24 x 10  
Aperture: 6-1/4 (15.9)  
Ceiling Opening: 7-1/8 (18.1)  
Overlap Trim: 7-1/2 (19.1)

## LDN6 CP



Aperture: 6-1/4 (15.9)  
Ceiling Opening: 7-1/8 (18.1)  
Overlap Trim: 7-1/2 (19.1)

## LDN6 EL



Marked Spacing above 3000 Lumens: 24 x 24 x 10  
Aperture: 6-1/4 (15.9)  
Ceiling Opening: 7-1/8 (18.1)  
Overlap Trim: 7-1/2 (19.1)

LDN6			
Nominal Lumens	Lumens	Wattage	Lm/W
500	527.9	5.8	90.5
750	758.1	8.9	85.1
1000	950.1	10.4	91.0
1500	1514	17.5	86.4
2000	2006	22.5	89.1
2500	2504	28.3	88.6
3000	3021	34.8	86.9
4000	4008	44.3	90.6
5000	4975	57.7	86.3

### HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the delivered lumens in emergency mode

$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

The LPW rating is also available at [Designlight Consortium](http://Designlight Consortium).

LUMEN OUTPUT MULTIPLIERS - FINISH			
	Clear (AR)	White (WR)	Black (BR)
Specular (LS)	1.0	N/A	N/A
Semi-specular (LSS)	0.950	N/A	N/A
Matte diffuse (LD)	0.85	N/A	N/A
Painted	N/A	0.87	0.73

LUMEN OUTPUT MULTIPLIERS - CCT					
	2700K	3000K	3500K	4000K	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

### Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.

## ADDITIONAL DATA



The Sensor Switch JOT enabled solution offers a wireless, app-free approach to single room lighting control. JOT enabled products use Bluetooth® Low Energy (BLE) technology to enable wireless dimming and switching.

## Diagram



LDN6 Series

Sensor Switch  
WSA JOT

- 1. Power:** Install JOT enabled fixtures and controls as instructed.
- 2. Pair:** Insert the pairing tool into the pinhole on the wall switch; press and hold any button for 6 seconds.
- 3. Play:** Once paired, each fixture will individually dim down to 10% brightness. All products will be fully functional.

COMPATIBLE 0-10V WALL-MOUNT DIMMERS		
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron®	Diva® DDTV	
	Diva® DVSCTV	
	Nova T® NTFTV	
	Nova® NFTV	
Leviton®	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	
	IllumaTech® IP7 Series	
Synergy®	ISD BC	RDMFC
	SLD LPCS	
	Digital Equinox (DEQ BC)	
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V)	
	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis OA2000FAMU	
Honeywell	EL7315A1019	EL7305A1010 (optional)
	EL7315A1009	
HUNT Dimming	Preset slide: PS-010-IV and PS-010-WH	
	Preset slide: PS-010-3W-IV and PS-010-3W-WH	
	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V	
	Preset slide, controls FD-010: PS-IFC-010-3W-IV and PS-IFC-010-3W-WH-120/277V	
	Remote mounted unit: FD-010	
Lehigh Electronic Products	Solitaire	PBX
PDM Electrical Products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DALI.net Router
WattStopper®	LS-4 used with LCD-101 and LCD-103	

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

## EXAMPLE

Group Fixture Control\*

\*Application diagram applies for fixtures with eldoLED drivers only.

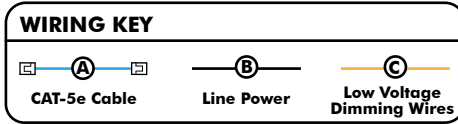
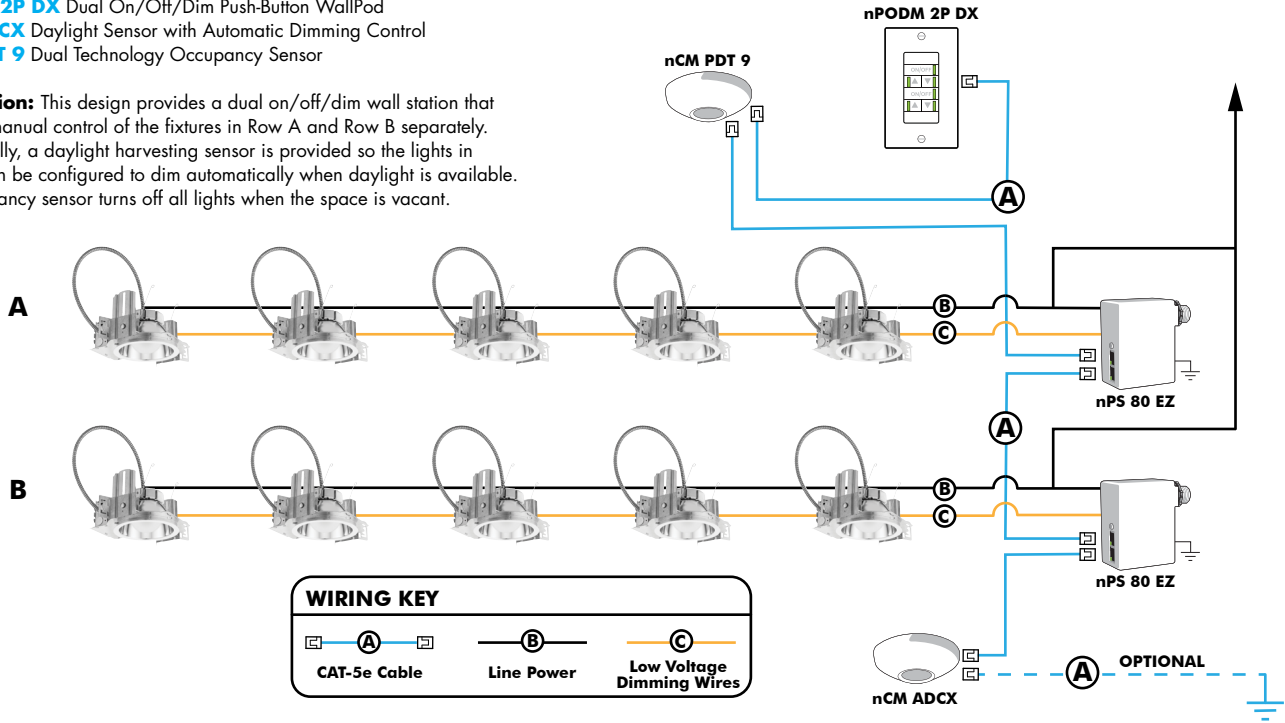
**nPS 80 EZ** Dimming/Control Pack (qty: 2 required)

**nPODM 2P DX** Dual On/Off/Dim Push-Button WallPod

**nCM ADCX** Daylight Sensor with Automatic Dimming Control

**nCM PDT 9** Dual Technology Occupancy Sensor

**Description:** This design provides a dual on/off/dim wall station that enables manual control of the fixtures in Row A and Row B separately. Additionally, a daylight harvesting sensor is provided so the lights in Row B can be configured to dim automatically when daylight is available. An occupancy sensor turns off all lights when the space is vacant.



## Choose Wall Controls

nLight offers multiple styles of wall controls - each with varying features and user experience.



### Push-Button Wallpod

Traditional tactile buttons and LED user feedback



### Graphic Wallpod

Full color touch screen provides a sophisticated look and feel

## nLight® Wired Controls Accessories:

Order as separate catalog number. Visit [www.acuitybrands.com/products/controls/nlight](http://www.acuitybrands.com/products/controls/nlight) for complete listing of nLight controls.

WallPod Stations	Model number	Occupancy sensors	Model Number
On/Off	nPODM (Color)	Small motion 360°, ceiling (PIR/dual Tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPOD DX (Color)	Large motion 360°, ceiling (PIR/dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX (Color)	Wide View (PIR/dual tech)	nWV 16 / nWV PDT 16
<b>Photocell controls</b>	<b>Model Number</b>	Wall Switch w/ Raise/Lower (PIR/dual tech)	nWSX LV DX / nWSX PDT LV DX
Dimming	nCM ADCX	<b>Cat-5 cables (plenum rated)</b>	<b>Model Number</b>
		10', CAT5 10FT	CATS 10FT J1
		15, CAT5 15FT	CATS 15FT J1

## nLight® AIR Control Accessories:

Order as separate catalog number. Visit [www.acuitybrands.com/products/controls/nlightair](http://www.acuitybrands.com/products/controls/nlightair).

Wall switches	Model number
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.

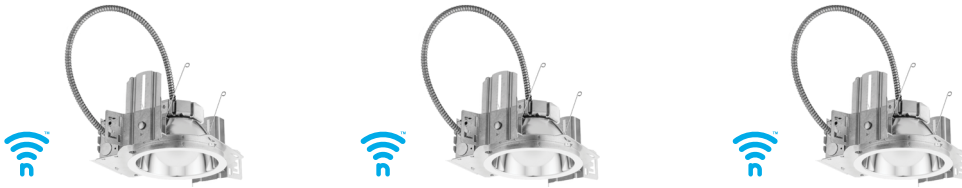
## UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

## nLight AIR

nLight AIR is the ideal solution for retrofit or new construction spaces where adding communication is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each Lithonia LDN Luminaire. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.



### 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





# D-Series Size 1 LED Wall Luminaire



Buy American

Catalog  
Number

Notes

Type

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

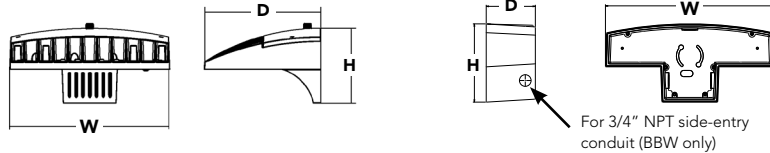
d#series

## Specifications Luminaire

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

## Back Box (BBW, E20WC)

<b>Width:</b>	13-3/4" (34.9 cm)	<b>BBW Weight:</b>	5 lbs (2.3 kg)
<b>Depth:</b>	4" (10.2 cm)	<b>E20WC Weight:</b>	10 lbs (4.5 kg)
<b>Height:</b>	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 DBBTD**

Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options
DSXW1 LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines) <sup>1</sup>	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A) <sup>1</sup>	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT <sup>2</sup> 120 <sup>3</sup> 208 <sup>3</sup> 240 <sup>3</sup> 277 <sup>3</sup> 347 <sup>3,4</sup> 480 <sup>3,4</sup>	<b>Shipped included</b> (blank) Surface mounting bracket <b>BBW</b> Surface-mounted back box (for conduit entry) <sup>5</sup>	<b>Shipped installed</b> PE Photoelectric cell, button type <sup>6</sup> DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) PIR 180° motion/ambient light sensor, <15' mtg ht <sup>1,7</sup> PIRH 180° motion/ambient light sensor, 15-30' mtg ht <sup>1,7</sup> PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>1,7</sup> PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>1,7</sup> E20WC Emergency battery backup (includes external component enclosure), CA Title 20 compliant <sup>8,9</sup>

Other Options	Finish (required)
<b>Shipped installed</b> SF Single fuse (120, 277 or 347V) <sup>3,10</sup> DF Double fuse (208, 240 or 480V) <sup>3,10</sup> HS House-side shield <sup>11</sup> SPD Separate surge protection <sup>12</sup>	<b>Shipped separately<sup>11</sup></b> BSW Bird-deterrent spikes VG Vandal guard DDL Diffused drop lens DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DBBTD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone

## Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXWTVG U	Vandal guard accessory

## NOTES

- 20C 1000 is not available with PIR, PIRH, PIR1FC3V or PIRH1FC3V.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage 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).
- Reference Motion Sensor table on page 3.
- Same as old ELCW. 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)
- Not available with SPD.
- Not available with E20WC.
- Also available as a separate accessory; see Accessories information.
- Not available with E20WC.



# Performance Data

## Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70CRI)					40K (4000 K, 70CRI)					50K (5000 K, 70CRI)					AMBPC (Amber Phosphor Converted)					
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	
10C (10 LEDs)	350mA	13W	T2S	1,415	0	0	1	109	1,520	0	0	1	117	1,530	0	0	1	118	894	0	0	1	69	
			T2M	1,349	0	0	1	104	1,448	0	0	1	111	1,458	0	0	1	112	852	0	0	1	66	
			T3S	1,399	0	0	1	108	1,503	0	0	1	116	1,512	0	0	1	116	884	0	0	1	68	
			T3M	1,385	0	0	1	107	1,488	0	0	1	114	1,497	0	0	1	115	876	0	0	1	67	
			T4M	1,357	0	0	1	104	1,458	0	0	1	112	1,467	0	0	1	113	858	0	0	1	66	
	530 mA	19W	TFTM	1,411	0	0	1	109	1,515	0	0	1	117	1,525	0	0	1	117	892	0	0	1	69	
			T2S	2,053	1	0	1	108	2,205	1	0	1	116	2,220	1	0	1	117	1,264	0	0	1	67	
			T2M	1,957	1	0	1	103	2,102	1	0	1	111	2,115	1	0	1	111	1,205	0	0	1	63	
			T3S	2,031	1	0	1	107	2,181	1	0	1	115	2,194	1	0	1	115	1,250	0	0	1	66	
			T3M	2,010	1	0	1	106	2,159	1	0	1	114	2,172	1	0	1	114	1,237	0	0	1	65	
	700 mA	26W	T4M	1,970	1	0	1	104	2,115	1	0	1	111	2,129	1	0	1	112	1,212	0	0	1	64	
			TFTM	2,047	0	0	1	108	2,198	1	0	1	116	2,212	1	0	1	116	1,260	0	0	1	66	
			T2S	2,623	1	0	1	101	2,816	1	0	1	108	2,834	1	0	1	109	1,544	0	0	1	59	
			T2M	2,499	1	0	1	96	2,684	1	0	1	103	2,701	1	0	1	104	1,472	0	0	1	57	
			T3S	2,593	1	0	1	100	2,785	1	0	1	107	2,802	1	0	1	108	1,527	0	0	1	59	
	1000 mA	39W	T3M	2,567	1	0	1	99	2,757	1	0	1	106	2,774	1	0	1	107	1,512	0	0	1	58	
			T4M	2,515	1	0	1	97	2,701	1	0	1	104	2,718	1	0	1	105	1,481	0	0	1	57	
			TFTM	2,614	1	0	1	101	2,808	1	0	1	108	2,825	1	0	1	109	1,539	0	0	1	59	
			T2S	3,685	1	0	1	94	3,957	1	0	1	101	3,982	1	0	1	102	2,235	1	0	1	57	
			T2M	3,512	1	0	1	90	3,771	1	0	1	97	3,794	1	0	1	97	2,130	1	0	1	55	
	20C (20 LEDs)	350mA	23W	T3S	3,644	1	0	1	93	3,913	1	0	1	100	3,938	1	0	1	101	2,210	1	0	1	57
				T3M	3,607	1	0	1	92	3,873	1	0	1	99	3,898	1	0	1	100	2,187	1	0	1	56
				T4M	3,534	1	0	2	91	3,796	1	0	2	97	3,819	1	0	2	98	2,143	1	0	1	55
				TFTM	3,673	1	0	1	94	3,945	1	0	1	101	3,969	1	0	1	102	2,228	1	0	1	57
T2S				2,820	1	0	1	123	3,028	1	0	1	132	3,047	1	0	1	132	1,777	1	0	1	77	
530 mA		35W	T2M	2,688	1	0	1	117	2,886	1	0	1	125	2,904	1	0	1	126	1,693	1	0	1	74	
			T3S	2,789	1	0	1	121	2,994	1	0	1	130	3,014	1	0	1	131	1,757	0	0	1	76	
			T3M	2,760	1	0	1	120	2,965	1	0	1	129	2,983	1	0	1	130	1,739	1	0	1	76	
			T4M	2,704	1	0	1	118	2,905	1	0	1	126	2,922	1	0	1	127	1,704	1	0	1	74	
			TFTM	2,811	1	0	1	122	3,019	1	0	1	131	3,038	1	0	1	132	1,771	0	0	1	77	
700 mA		46W	T2S	4,079	1	0	1	117	4,380	1	0	1	125	4,407	1	0	1	126	2,504	1	0	1	72	
			T2M	3,887	1	0	1	111	4,174	1	0	1	119	4,201	1	0	1	120	2,387	1	0	1	68	
			T3S	4,033	1	0	1	115	4,331	1	0	1	124	4,359	1	0	1	125	2,477	1	0	1	71	
			T3M	3,993	1	0	2	114	4,288	1	0	2	123	4,315	1	0	2	123	2,451	1	0	1	70	
			T4M	3,912	1	0	2	112	4,201	1	0	2	120	4,227	1	0	2	121	2,402	1	0	1	69	
1000 mA		73W	TFTM	4,066	1	0	2	116	4,366	1	0	2	125	4,394	1	0	2	126	2,496	1	0	1	71	
			T2S	5,188	1	0	1	113	5,572	1	0	1	121	5,607	1	0	1	122	3,065	1	0	1	67	
			T2M	4,945	1	0	2	108	5,309	1	0	2	115	5,343	1	0	2	116	2,921	1	0	1	64	
			T3S	5,131	1	0	2	112	5,510	1	0	2	120	5,544	1	0	2	121	3,031	1	0	1	66	
			T3M	5,078	1	0	2	110	5,454	1	0	2	119	5,487	1	0	2	119	3,000	1	0	1	65	
1000 mA		73W	T4M	4,975	1	0	2	108	5,343	1	0	2	116	5,376	1	0	2	117	2,939	1	0	1	64	
			TFTM	5,172	1	0	2	112	5,554	1	0	2	121	5,589	1	0	2	122	3,055	1	0	1	66	
			T2S	7,204	1	0	2	99	7,736	2	0	2	106	7,784	2	0	2	107	4,429	1	0	1	61	
			T2M	6,865	1	0	2	94	7,373	2	0	2	101	7,419	2	0	2	102	4,221	1	0	1	58	
	T3S		7,125	1	0	2	98	7,651	1	0	2	105	7,698	1	0	2	105	4,380	1	0	1	60		
T3M	7,052	1	0	2	97	7,573	2	0	2	104	7,620	2	0	2	104	4,335	1	0	2	59				
T4M	6,909	1	0	2	95	7,420	1	0	2	102	7,466	1	0	2	102	4,248	1	0	2	58				
TFTM	7,182	1	0	2	98	7,712	1	0	2	106	7,761	1	0	2	106	4,415	1	0	2	60				



## 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	24 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	74 W	0.69	0.40	0.35	0.30	0.23	0.17

### Motion Sensor Default Settings

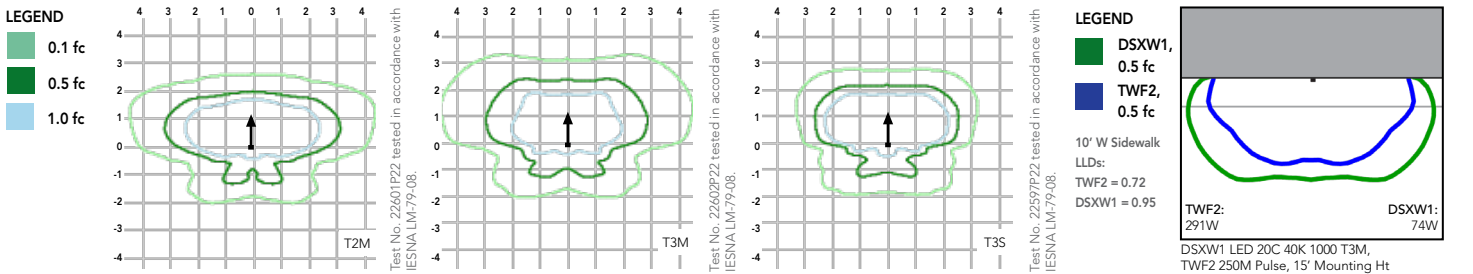
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

\*For use when motion sensor is used as dusk to dawn control

## 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').



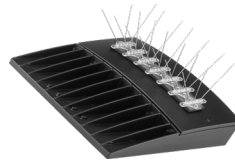
## Options and Accessories



T3M (left)



HS - House-side shields



BSW - Bird-deterrent spikes



VG - Vandal guard



DDL - Diffused drop lens

## 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 (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. 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/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

### BUY AMERICAN

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/resources/buy-american](http://www.acuitybrands.com/resources/buy-american) for additional information.

### WARRANTY

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**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.



## FEATURES & SPECIFICATIONS

**INTENDED USE** — Suitable for applications requiring attractive edge-lit exit signage, universal installation and low energy consumption.

**CONSTRUCTION** — Extruded brushed aluminum finish.

Clear acrylic panels- letters measure 6" high with 3/4" stroke, with 100 ft viewing distance rating, based upon UL 924 standard.

For single-face clear panels, EXIT is seen as a reversed image from the back.

**OPTICS** — LEDs mounted on printed circuit board. The typical life of the exit LED lamp is 10 years.

The LED operating frequency is 120Hz.

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

Battery: (EL Option) – Sealed, maintenance free nickel-cadmium battery delivers 90 minutes capacity to emergency lamps. Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection.

Self-diagnostic testing (EL Option Only) for 30 seconds every 30 days and 90 minutes annually. Diagnostic evaluation of LED light source, AC to DC transfer, charging and battery condition.

**INSTALLATION** — EDG – Universal mounting canopy for top or end mount. Back mount standard for single face only. Canopy provided.

EDGR – Recessed mounting. Bar hanger and brackets provided for both new or restricted ceiling access installation applications. Available for use in drop ceiling applications. Back wall mount (WM) option.

Universal directional indicators. Field selected and attached.

**LISTINGS** — UL damp location listed 32°-122°F (0°-50°C) standard. Meets UL924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards. Meets all applicable FCC Title 47, Part 15, Subpart B requirements.

**BUY AMERICAN** — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

**WARRANTY** — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**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.

† Exit Signs Certified in the CA Title 20 Appliance Efficiency Database.

Catalog Number
Notes
Type



EDG (surface mount)



EDGR (recessed mount)

LED Edge-Lit Exits

# EDG EDGR

LED Lamps



Buy American

### Specifications

EDG (End Mount)	EDG (Top Mount)
Length: 13-5/8 (34.6)	Length: 13 (33.0)
Depth: 5-1/2(14.0)	Depth: 4-5/16 (11.0)
Height: 11-1/8 (28.3)	Height: 11-3/4 (29.8)
Shipping Weight : 4 lbs (1.8 kgs)	Shipping Weight : 4 lbs (1.8 kgs)
EDG (Back Mount)	EDGR
Length: 13 (33.0)	Length: 13 (33.0)
Depth: 3 (7.6)	Depth: 1-3/4 (4.4)
Height: 11-1/8 (28.3)	Height: 8 (20.3)
Shipping Weight : 4 lbs (1.8 kgs)	Shipping Weight : 6.8 lbs (3.1 kgs)
	Shipping Weight (WM option) : 8.1 lbs (3.7 kgs)

All dimensions are inches (centimeters) unless otherwise noted.

### ORDERING INFORMATION

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

**Example:** EDG 1 R EL

Family	Housing color	Number of faces	Letter color	Operations	Options
<b>EDG</b> Surface mount LED edge-lit exit	<b>(blank)</b> Brushed aluminum	<b>1</b> Single face <b>2</b> Double face	<b>R</b> Red on clear (single face only) <sup>1</sup> <b>G</b> Green on clear (single face only) <sup>1</sup> RMR Red on mirror <sup>2</sup> GMR Green on mirror <sup>2</sup> RW Red on white <sup>3</sup> GW Green on white <sup>3</sup>	<b>(blank)</b> AC only <b>EL</b> Nickel-cadmium battery <b>X2</b> Lamp wired on two separate AC circuits (specify 120V or 277V) <sup>4</sup> <b>SD</b> Self-diagnostics <sup>5</sup>	<b>(blank)</b> None WM Recessed wall mount <sup>6</sup> BAA Buy America(n) Act Compliant
<b>EDGR</b> Recessed LED edge-lit exit	<b>W</b> White				

Accessories: Order as separate item.	
ELA US12	12" stem kit with brushed aluminum canopy <sup>7</sup>
ELA W US12	12" stem kit with white canopy <sup>7</sup>
ELA WG1	Wireguard (13 3/4"H x 15 1/4"W x 6" D, back mount only)

### Notes

- For single-face clear panels, EXIT is seen as a reversed image from the back.
- Available with single and double face.
- White panel standard for double and single face.
- Not available with EL and SD options. Both circuits can be energized at the same time.
- Available with EL option only.
- Available on EDGR single face only
- See spec sheet [ELA-StemKits](#). Only available for EDG.

# EDG-EDGR LED, Surface and Recessed Mount Edge-Lit Exits

## SPECIFICATIONS

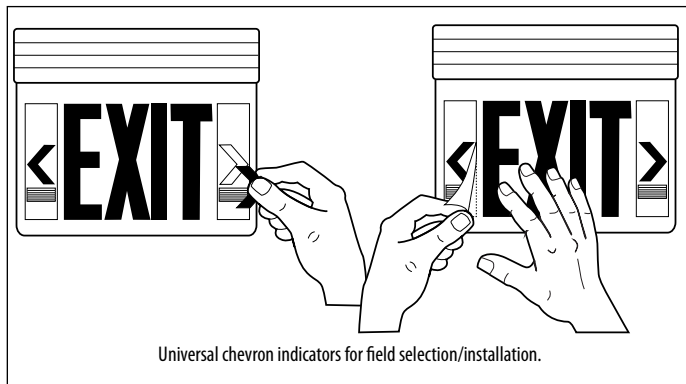
ELECTRICAL						
Primary Circuit						
Type	Typical LED life <sup>1</sup>	Supply voltage	EDG		EDGR	
			Input Watts	Max amps.	Input Watts	Max amps.
Red LED AC only	10 years	120	2.5	0.020	3.8	0.030
		277	2.8	0.010	4.5	0.014
Green LED AC only	10 years	120	2.2	0.020	3.8	0.030
		277	2.2	0.010	4.5	0.020
Red LED emergency	10 years	120	3.0	0.030	3.8	0.031
		277	3.1	0.010	4.5	0.015
Green LED emergency	10 years	120	2.6	0.020	3.8	0.031
		277	2.8	0.010	4.5	0.020

BATTERY (EL option)			
Sealed Nickel-Cadmium			
Shelf life <sup>2</sup>	Typical life <sup>2</sup>	Maintenance <sup>3</sup>	Temperature range <sup>4</sup>
3 years	6-8 years	none	32-122°F (0-50°C)

### Notes

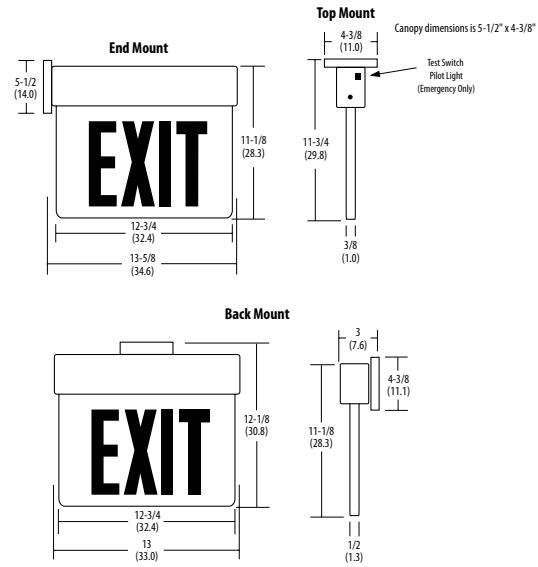
- 1 Based on continuous operation. The typical life of the exit LED lamp is 10 years.
- 2 At 77°F (25°C).
- 3 All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local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

## KEY FEATURES



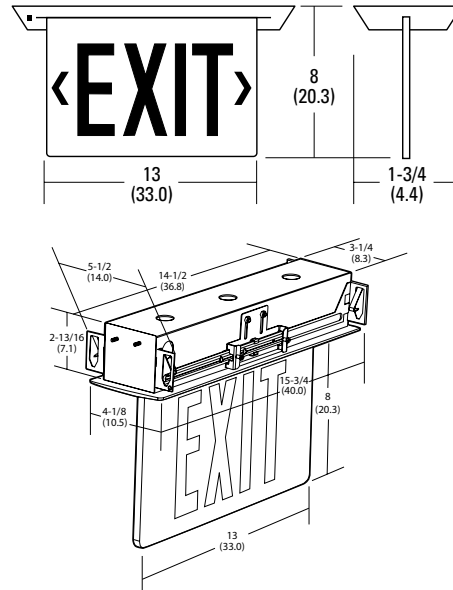
## MOUNTING

### EDG

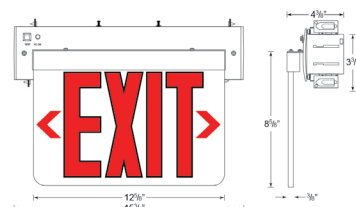


### EDGR

**Note:** For drop ceiling applications refer to the standard installation section of the instruction sheet. Not applicable for "bracket mount" installation.



### EDGR WM option



## FEATURES & SPECIFICATIONS

### INTENDED USE

Provides an LED lighting platform to deliver general or task lighting for residential and light commercial applications. Light engine delivers long life and excellent color to ensure a quality, low-maintenance light installation. Ideal for use in bathrooms, lavatories, hallways, corridors, stairways, utility areas and more.

### CONSTRUCTION

The Contemporary Square Vanity is constructed of an acrylic diffuser with housings available in either a brushed nickel, bronze, or chrome finish. The included canopy/junction box cover is removable for a more low-profile look (2'-4' lengths only). The white acrylic diffuser provides even illumination and softens the appearance of the LEDs for improved aesthetics.

### OPTICS

The FMVCSLS Contemporary Square Vanity has an integrated switch to select 3000K, 3500K or 4000K color temperature at the time of installation.

1' delivers 750 lumens, 2' delivers 1550 lumens, 3' delivers 2350 lumens, and 4' delivers 2960 lumens at 3000K CCT with 50,000 hours of life. See table below for delivered lumens at the different CCT color switch settings.

Extruded acrylic diffuser is of highly transmissive material to minimize LED image and provides high-angle brightness control.

### ELECTRICAL

Long-life LEDs, coupled with a multivolt and dual dimmable capable driver, provide extended service life. Standard input = 9.5 watts, (1'); 18 watts, (2'); 27 watts, (3'); 36 watts, (4'). Fixture is rated to deliver L70 performance at 50,000 hours and operates at 120-277 volts.

This fixture is dimmable by either triac or 0-10V dimming. Use with approved triac or 0-10v dimmer only.

### LISTINGS

UL Listed to US and Canadian safety standards. Listed for damp locations. ENERGY STAR® certified.

### WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**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.

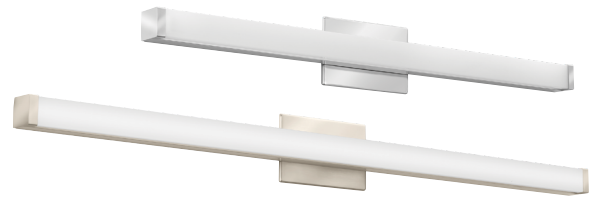
Specifications subject to change without notice.

Catalog Number
Notes
Type

Decorative Indoor

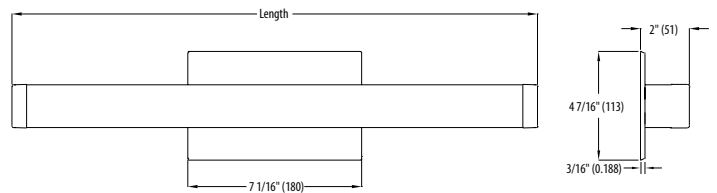
# Contemporary Square Vanity with Switchable White Color Temperature

VANITY LED



SPECIFICATIONS	1FT	2FT	3FT	4FT
<b>Length</b>	12-9/16 (320)	21-7/16 (545)	33-1/4 (845)	45-1/16 (1145)
<b>Weight</b>	1.55 (.70)	2.15 (.98)	2.55 (1.16)	3.15 (1.43)
<b>3000K Lumens (LPW)</b>	750 (79)	1550 (87)	2350 (88)	2960 (84)
<b>3500K Lumens (LPW)</b>	815 (88)	1725 (99)	2550 (98)	3240 (94)
<b>4000K Lumens (LPW)</b>	830 (87)	1740 (96)	2560 (93)	3200 (89)

All dimensions are inches (millimeters) unless otherwise indicated. Weights are pounds (kilograms).



## ORDERING INFORMATION

Example: FMVCSLS 24IN MVOLT 30K35K40K 90CRI BZ

Series	Length	Voltage	Color temperature	CRI	Finish
FMVCSLS Contemporary Square Vanity	<b>12IN</b> <sup>1</sup> 1' Nominal <b>24IN</b> 2' Nominal <b>36IN</b> 3' Nominal <b>48IN</b> <sup>2</sup> 4' Nominal	<b>MVOLT</b> MVOLT (120V-277V)	<b>30K35K40K</b>	<b>90CRI</b> >90	<b>BN</b> Brushed Nickel <b>KR</b> Chrome <b>BZ</b> Bronze

### Notes

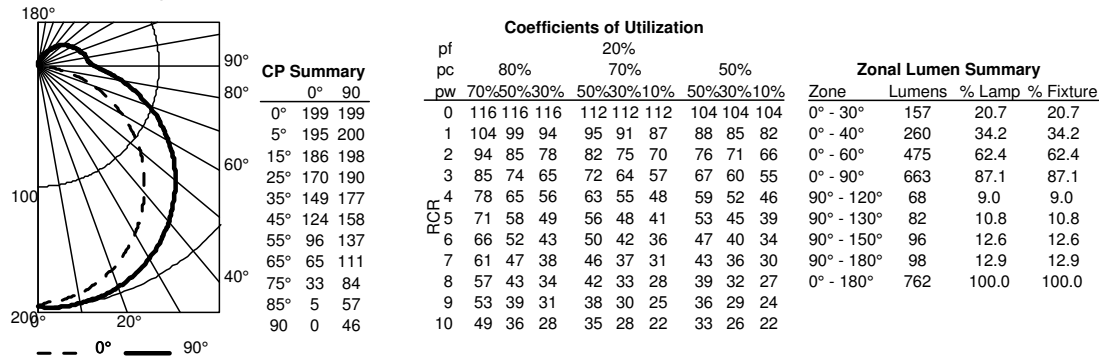
- Not available in KR (Chrome) finish.
- Not available in BZ (Bronze) finish.

# LED Vanity Contemporary Square

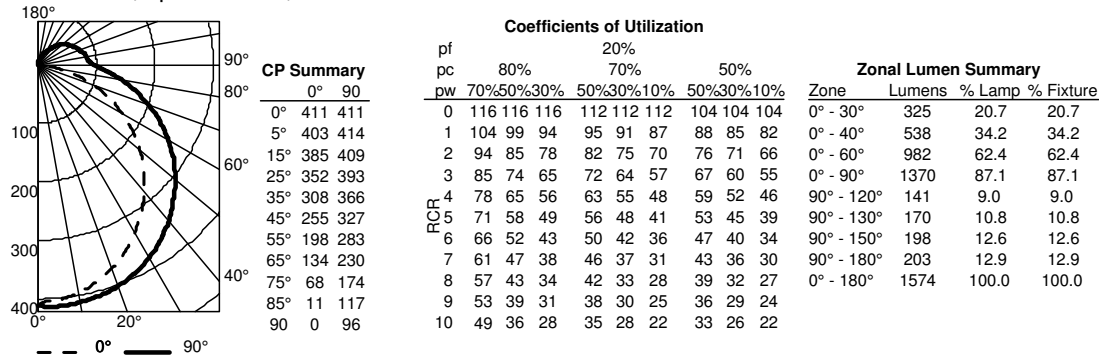
## PHOTOMETRICS

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

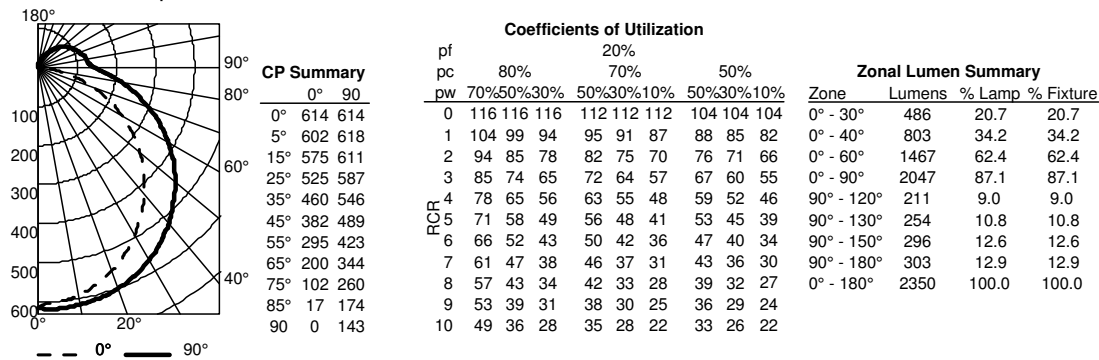
**FMVCSLS 12IN**, input watts: 9.53, test no. ISF 37690



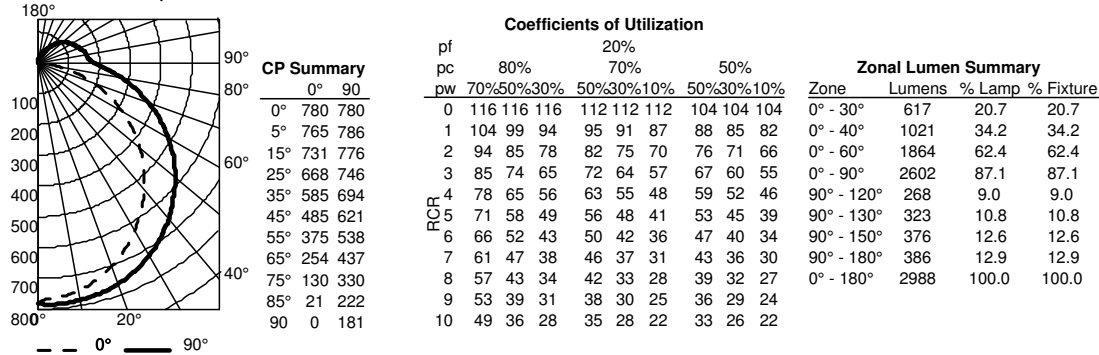
**FMVCSLS 24IN**, input watts 17.92, test no. ISF 37690



**FMVCSLS 36IN**, input watts: 26.64, test no. ISF 37690



**FMVCSLS 48IN**, input watts 35.18, test no. ISF 37690



# LED Vanity Contemporary Square

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## COMPATIBLE DIMMERS

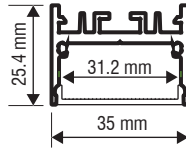
The FMVCSLS is designed to operate with most standard Triac Based dimmers and is compatible with 0-10v dimming systems. The following is a list of dimmers tested and does not imply any guarantee or warranty of compatibility with a particular application. Unlisted dimmers do not imply non-compatibility.

Manufacturer	Part number(s)
Lutron	DVELV-300P
	300P SELV
	NTELV-300P
	NLV-600
Leviton	6633-PA
	6615-P
Synergy/Leviton	ISD 400 ELV 120 / IPE04

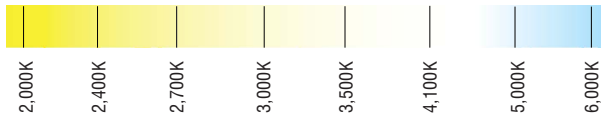


# BEN 228

LINEAR EASY-SPEC™



### KELVIN COLOR TEMPERATURE SCALE



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

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

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

### FEATURES

- Optional Seamless Lensing Up to 100ft
- 100 to 1000 Lumens per Foot
- Field Replaceable Light Source
- 50,000 Hour Lamp Life
- Dimmable to 1%
- Anodized Finish
- Adjustable-Length Power Feed Included

### SPECIFICATIONS

Input Voltage	24V DC / Constant Voltage
CRI	90+
Dimming Options	PWM, Triac, 0-10V
Temp Range	-40°F to 149°F
Channel Height	25.4mm (1")
Channel Width	35mm (1-3/8")

### PART NUMBER BUILDER

Example:

**228-I-48-DV-35K-WH-CP-SV-ULV**

Model	Setting	Length (Unlimited) <sup>1</sup>	Output	CCT	Lens	Mounting Method	Finish	Power Supply
228	I						SV	ULV
228	I - Indoor	Inches	DL - 200+lm/ft DK - 400+lm/ft DV - 700+lm/ft VT - 1000+lm/ft  RGBW-1 RGBW-2 RGBW-3	24K - 2400 Kelvin 27K - 2700 Kelvin 30K - 3000 Kelvin 35K - 3500 Kelvin 40K - 4000 Kelvin 50K - 5000 Kelvin	NA - None WH - White SWH - Seamless White <i>(SWH for direct view applications only)</i>	CP - Mounting Clips SP - Suspension	SV - Silver <i>(Custom Finishes Available)</i>	ULV - Universal Power Supply <sup>2</sup>

<sup>1</sup>Light Source is installed in field allowing for seamless lensing and unlimited run lengths

<sup>2</sup>120V = Forward Phase Dimming | 120/277 = 0-10V Dimming

For use with c us Light Source

Certified to CAN/CSA Standard C22.2 No. 250.0



## 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. Housing and lens endcaps are injection molded plastic to provide a more architectural look and feel. The endcaps come standard with a 7/8" knock out for continuous mounting but can be ordered without.

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.

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

Models with wide diffuse lens provide up to 12% uplight. Please check the IES file for specific uplight value.

**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 14.) Electronic LED driver is multi-volt input and 0-10V dimming standard (see Operational Data on page 6 for actual wattage consumption). 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.

L70>100,000 hours at 25°C.

LEDs provide nominal 80 CRI or 90 CRI 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.

**WARNING** — Removing the lens and opening the fixture during installation exposes the LEDs, putting them at risk for damage.

If you plan to surface mount the fixture, we recommend using the THCLX. This eliminates the need to open the fixture.

If you plan to continuous row mount, we recommend using the PLR wiring harness option. This eliminates the need to open the fixture.

Damage to the LEDs caused during installation will not be covered under the warranty.

**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 (See ambient temperature chart for additional information).

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.

**BUY AMERICAN ACT** — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

**WARRANTY** — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

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

Catalog Number
Notes
Type

LED Linear

# CLX

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

Flat Diffuse Lens



Round Diffuse Lens



Wide Diffuse Lens



CLX with Reflector



### 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 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	Performance package	Louvers	Lens
CLX LED linear	L24 24" ‡	1500LM 1,500 lumens	SEF Standard efficiency ‡	(Blank) Less louver	L/Lens Less lens
		2000LM 2,000 lumens	HEF Premium efficiency ‡	SBLW Straight blade louver, white ‡	FDL Flat diffuse ‡
		2500LM 2,500 lumens		SBLMB Straight blade louver, matte black ‡	RDL Round diffuse ‡
		3500LM 3,500 lumens		SBLGV Straight blade louver, galvanized ‡	WDL Wide diffuse ‡
		4500LM 4,500 lumens		SBSLKG Straight blade louver, smoke gray ‡	
		5000LM 5,000 lumens			
	L36 36" ‡	2250LM 2,250 lumens			
		3000LM 3,000 lumens			
		3750LM 3,750 lumens			
		5250LM 5,250 lumens			
		6750LM 6,750 lumens			
		7500LM 7,500 lumens			
L48 48"	3000LM 3,000 lumens				
	4000LM 4,000 lumens				
	5000LM 5,000 lumens				
	7000LM 7,000 lumens				
	9000LM 9,000 lumens				
	10000LM 10,000 lumens				
	L96 96"	6000LM 6,000 lumens			
8000LM 8,000 lumens					
10000LM 10,000 lumens					
14000LM 14,000 lumens					
18000LM 18,000 lumens					
20000LM 20,000 lumens					

Distribution	Voltage	Driver ‡	Glare Reflector	Color temperature	Coloring rendering index
(Blank) General	MVOLT 120-277V ‡	GZ1 Generic 0-10V, dims to 1% ‡	(blank) No reflectors	30K 3000 K	80CRI 80 CRI
ND Narrow ‡	120 120V	GZ10 Generic 0-10V, dims to 10% ‡	LUGR Reflectors for additional glare reduction ‡	35K 3500 K	90CRI 90 CRI
WD Wide ‡	208 208V ‡	EZ1 eldoLED 0-10V, dims to 1% ‡		40K 4000 K	
AD2 Aisle, 24° off center ‡	240 240V ‡			50K 5000 K	

Options	Finish
<b>PS1050</b> Emergency battery pack, 10W, CA Title 20 Noncompliant ‡ <b>E10WLCP</b> Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ‡ <b>BGTD</b> Generator transfer device, not available with PS1050 ‡ <b>OCS</b> 5', 18/3 Reloc selectable One Pass cable (fixture will bear dry location label) ‡ <b>HA</b> High ambient, for use in ambient temperatures up to 50°C ‡ <b>EPNKO</b> Decorative endplate, no knock out ‡ <b>OUTCTR</b> Wiring leads pulled through back center of fixture ‡ <b>OUTEND</b> Wiring leads pulled through end of fixture ‡ <b>Cord Sets:</b> <b>CS1W</b> 6' Staigt blade plug, 120V ‡ <b>CS3W</b> NEMA twist-lock plug, 120V ‡ <b>CS7W</b> Staigt blade plug, 277V ‡ <b>CS11W</b> NEMA twist-lock plug, 277V ‡ <b>CS25W</b> NEMA twist-lock plug, 347V ‡ <b>CS97W</b> NEMA twist-lock plug, 480V ‡ <b>CS93W</b> 600V SE00W white cord, no plug (no voltage required) <b>CS6WG16STOWD5D</b> 6' white cord, 16/5, no plug, includes low voltage dimming wires (no voltage required) ‡	<b>WH</b> White <b>GALVW</b> Galvanized with white lens end caps <b>GALVB</b> Galvanized with black lens end caps <b>MB</b> Matte black <b>SKGYW</b> Smoke gray with white lens end caps <b>SKGYB</b> Smoke gray with black lens end caps
<b>PLR___</b> Plug-in wiring, see page 14 for ordering information <b>PLR1LVG</b> Plug-in wiring, low voltage dimming ‡ <b>RRL___</b> RELOC®-ready luminaire. See page 14 for ordering information <b>SPD</b> Surge protection device, provides up to 6kV protection ‡ <b>BAA</b> Buy America(n) Act Compliant <b>nLight® Wireless: ‡</b> <b>NLTAIR2 RES7</b> nLight® Generation 2 enabled PIR integral occupancy sensor with automatic dimming photocell <b>NLTAIR2 RES7PDT</b> nLight AIR Generation 2 enabled dual technology integral occupancy sensor with automatic dimming photocell <b>NLTAIR2 RIO</b> No sensor control	<b>nLight® Wired: ‡</b> <b>N100</b> nLight® without lumen management <b>N100EMG</b> nLight® without lumen management For use with generator supply EM power ‡ <b>NES7</b> nLight® nES 7 PIR integral occupancy sensor ‡ <b>NESPDT7</b> nLight® nES PDT 7 dual technology integral occupancy control ‡ <b>NES7ADCX</b> nLight® nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ‡ <b>NESPDT7ADCX</b> nLight® nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ‡ <b>Individual controls: ‡</b> <b>MSD7</b> PIR integral occupancy sensor <b>MSDPDT7</b> PDT 7 dual technology integral occupancy control <b>MSD7ADC</b> PIR integral occupancy sensor with automatic dimming control photocell <b>MSDPDT7ADC</b> PDT integral occupancy sensor with automatic dimming control photocell

See Accessories and footnotes on next page

Accessories: Order as separate catalog number.			
<b>Mounting:</b>		THCLX ___	Tong hanger (Must specify color) (one pair) ‡
ZACVH M100	Adjustable 10' aircraft cable with Y hanger (1 pair)	CLXANGBKT ____	Angle bracket, (Must specify color) (one pair) ‡
ZAC120	One adjustable aircraft cable with canopy 120" ‡	HC36 M12	Hanger chain, 36" (1 pair)
ZACFP120	One adjustable aircraft cable with feed (3 conductor) and canopy, 120" ‡	<b>Reflectors:</b>	
ZACFPD120	One adjustable aircraft cable with feed (5 conductor) and canopy 120" ‡	CLXRW24 ___	Wide decorative 24" reflector, (Must specify color) ‡
ZAC240	One adjustable aircraft cable with canopy 240" ‡	CLXRW36 ___	Wide decorative 36" reflector, (Must specify color) ‡
ZACFP240	One adjustable aircraft cable with feed (3 conductor) and canopy, 240" ‡	CLXRW48 ___	Wide decorative 48" reflector, (Must specify color) ‡
ZACFPD240	One adjustable aircraft cable with feed (5 conductor) and canopy 240" ‡	CLXRW96 ___	Two wide decorative 48" reflectors, (Must specify color) ‡
SQ_	Swivel stem hanger (specify length in 2" increments up to 48") ‡	CLXRWU24 ___	Wide decorative 24" reflector with uplight, (Must specify color) ‡
		CLXRWU36 ___	Wide decorative 36" reflector with uplight, (Must specify color) ‡
		CLXRWU48 ___	Wide decorative 48" reflector with uplight, (Must specify color) ‡
		CLXRWU96 ___	Two wide decorative 48" reflectors with uplight, (Must specify color) ‡
		CLXRN24	Narrow 24" reflector, (Must specify color) ‡
		CLXRN36	Narrow 36" reflector, (Must specify color) ‡
		CLXRN48	Narrow 48" reflector, (Must specify color) ‡
		CLXRN96 ___	Two narrow 48" reflectors, (Must specify color) ‡
		<b>Wireguards:</b>	
		WGCLX24 ___	24" wireguard, (Must specify color) ‡
		WGCLX36 ___	36" wireguard, (Must specify color) ‡
		WGCLX48 ___	48" wireguard, XX, (Must specify color) 96" fixture requires two ‡

‡ Option Value Ordering Restrictions	
Option value	Restriction
347V, 480V	Voltage selected utilizes a step-down transformer. Not available with L24 when ordered with N100. Not available with PS1050, E10WLCP or BGTD option.
BGTD	Not available with MVOLT, 208V or 240V. Not available with HA. Available with L48 or L96 only. 20 Not available with PS1050 or E10WLCP options. Not available with 208 or 240V. Not available Individual controls, nLight Wired, or nLight Wireless options.
CLXRN REFLECTORS	For use with L/LENS fixtures only. L24 reflector is 22.75", L36 reflector is 34.20", L48 reflector is 46.85", L96 comes with two L48 reflectors.
CLXRW REFLECTORS	L24 reflector is 22.65", L36 reflector is 34.01", L48 reflector is 46.80", L96 comes with two L48 reflectors.
CS1W, CS3W, CS7W, CS11W, CS25W, CS97W	Not available with BGTD option. Must specify voltage.
CS6WG16STOWD5D	Not available with Individual controls, nLight wired networking, nLight wireless networking, nLight wireless zone control options.
DRIVER	When continuous row mounting, fixtures must all have the same driver selection.
E10WLCP	Not available with OUTCR, Not available with HA. Not available with 347V or 480V. Not available with BGTD option. Requires SPD option. Not available with L24 or L36. Not available with L48 in combination with N100.
EPNKO	Not available OUTEND.
EZ1	Not available with HA option. Not available with 5000LM, 7500LM.
FDL, RDL, WDL	Only available with general distribution. Not available with CLXRN accessories.
GZ1, GZ10	Not available with Individual controls, nLight wired networking, nLight wireless networking, nLight wireless zone control options.
HA	Not available with L24, L26, Not available with BGTD option. Not available with EZ1. Only available with L48 3000/4000/5000LM and L96 6000/8000/10000LM.
HEF	not available with L48 3000LM and L96 6000LM
LUGR	Not available with L36 length. Only available with WH finish. Not compatible with THCLX Hanger or wireguard accessories. LUGR option required for some DLC premium qualifications - Please check the DLC Qualified Products List to determine if LUGR option is necessary to meet requirement. If mounting in continuous rows, ensure all models ordered with LUGR option if required on any configuration to ensure rows match in form factor. LUGR reflectors ship in standard fixture carton and are not sold as separate accessory - this option MUST be specified as part of the CLX model number.
MSD7, MSDPD7, MSD7ADC, MSDPD7ADC	Not available with any other control option. Requires EZ1. Sensor housing will be the same color as lens end caps.
N100, N100EMG	nLight EMG option requires a connection to existing nLight network. Power is provided from separate N100 enabled fixture.
ND, WD, AD2	Not available with CLXRN accessories. Available L/LENS only.
NES7, NESPDT7, NES7ADCX, NESPDT7ADCX	Not available with any other control option. Requires EZ1. Requires N100 or N100EMG option, N100EMG with NES7 requires RFA. Sensor housing will be the same color as lens end caps.
NLTAIR2 RES7, NLTAIR2 RES7PDT, NLTAIR2 RIO	Not available with 10000LM, 14000LM, 18000LM, 20000LM. Sensor housing will be the same color as lens end caps.
OCS	Must specify voltage.
OUTCR	Not available with L24, Not available with PLR options.
OUTEND	Not available with PLR options.
PLR1LVG	Not available with Individual controls, nLight Wired, or nLight Wireless options. Refer to page 14 for more PLR details.
PS1050	Not available with 347V or 480V. Not available with BGTD option. Requires SPD option. Not available with L24 or L36. Not available with L48 in combination with N100. Not available with HA.
SBLW, SBLMB, SBLGV, SBLSKGY	When ordered with L24 only available with 1500LM or 2000LM in combination with GZ10 driver. Not for use with THCLX, CLXANGBKT, CLX reflectors or WGCLX accessories. Not available with RDL lens options.
SEF	Not available with EZ1 when ordered with L24 with 5000LM or L36 with 7500LM.
SPD	Required with PS1050, E10WLCP, BGTD, XAD, or XAD924.
THCLX ____, CLXANGBKT ____	Not available with louver, wireguards, wide reflectors. THCLX ____ not available with LUGR.
WIREGUARDS	Not for use with LUGR option or CLX wide reflector accessories.
ZAC120, ZACFP120, ZACFPD120, ZAC240, ZACFP240, ZAPFPD240, SQ	Ships standard as white

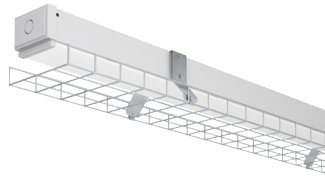
OPTIONS AND ACCESSORIES



**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 \_\_\_



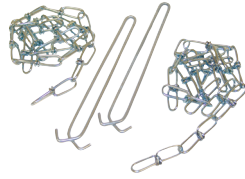
**Wireguard**  
Ships separately from fixture:  
96" fixture requires two WGCLX48.  
Order as:  
WGCLX24 \_\_\_  
WGCLX36 \_\_\_  
WGCLX48 \_\_\_



**LUGR glare reflector**  
NOT available as accessory - must be specified as part of the fixture nomenclature. See ordering notes on page 3.



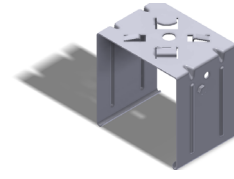
**Aircraft Cable with Canopy**  
Available in 120" or 240"  
Order as:  
ZAC120  
ZAC240



**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



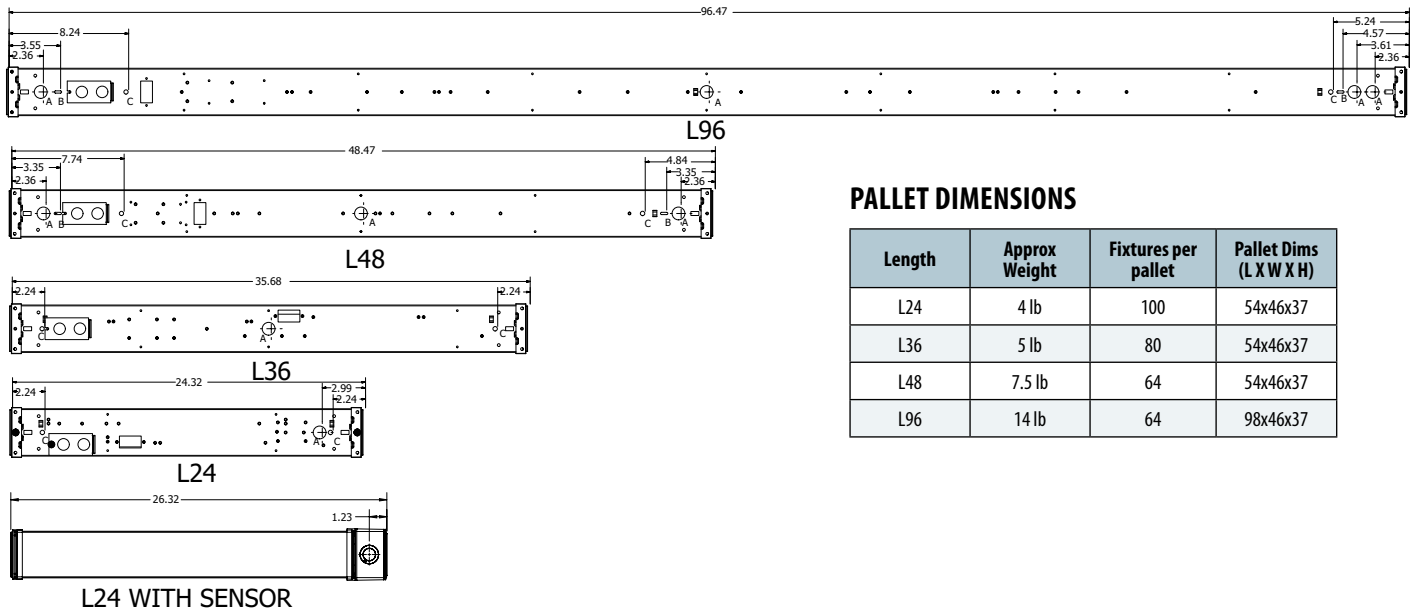
**Tong hanger**  
Ships as a pair  
Order As:  
THCLX\_\_\_

## DIMENSIONS

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

INTEGRATED SENSOR ADDS 2.0 INCHES TO STANDALONE FIXTURE LENGTH  
HOUSING END CAP ADDS 0.236 INCHES TO FIXTURE LENGTH PER SIDE. DIMENSIONS BELOW INCLUDE ENDCAPS.

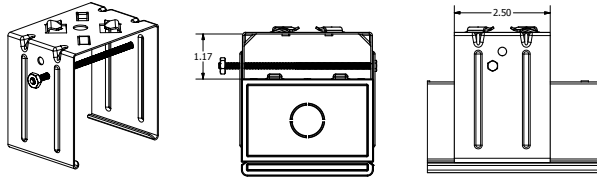
A - 7/8" KNOCK OUT  
B - 0.5" by 0.16" SLOT  
C - 0.3" DIA HOLE



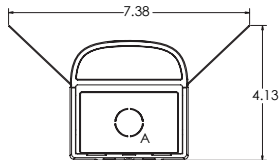
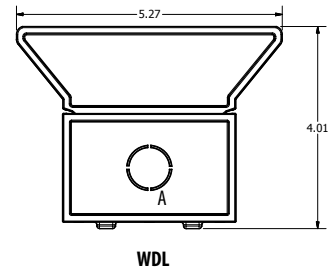
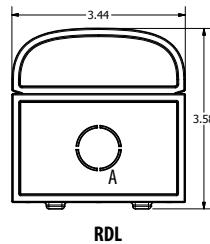
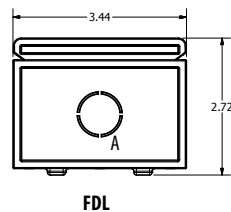
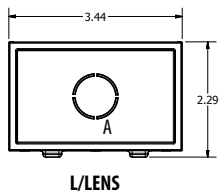
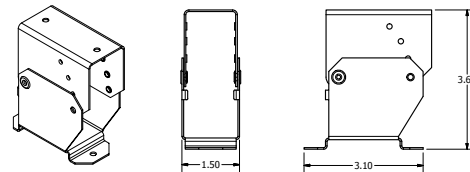
## PALLET DIMENSIONS

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



**LUGR Reflector Option**  
- applies to all lens types

## PHOTOMETRICS

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

**POWER SENTRY EMERGENCY BATTERY PACKS**

		SEF Emergency Lumens	HEF Emergency Lumens
<a href="#">PS1050</a>	Factory installable	1400	1500
<a href="#">E10WLCP</a>	Factory installable	1400	1500
<a href="#">PS1555LCP</a>	Field installable, remote mount only	2000	2100

**Note:** For emergency lumen output of specific model, please consult factory. One board will be illuminated during emergency operation.

**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"	18.4	18.4	24.0	24.0	17.4	17.4	23.1	23.1	24	3.5	3.75	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
5000LM	24"	41.5	41.5	47.4	47.4	38.1	38.1	44.1	44.1	24	3.5	3.75	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
3750LM	36"	26.5	26.5	32.1	32.1	25.1	25.1	30.7	30.7	36	3.5	3.75	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
7500LM	36"	62.6	62.6	68.6	68.6	54.0	54.0	59.7	59.7	36	3.5	3.75	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
5000LM	48"	31.8	31.8	37.2	37.2	31.8	31.8	37.6	37.6	48	3.5	3.75	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
10000LM	48"	70.7	70.7	76.2	76.2	65.3	65.3	70.8	70.8	48	3.5	3.75	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
10000LM	96"	63.7	63.7	69.0	69.0	63.7	63.7	69.5	69.5	96	3.5	3.75	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
20000LM	96"	141.3	141.3	146.8	146.8	130.5	130.5	136.1	136.1	96	3.5	3.75	6-lamp 32W T8, 4-lamp 54W T5HO, 200W HID

**Note:** For wattage by configuration, please reference the [CLX Operational Data Document](#).

## 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	<p>A Hot conductor wired to position #1 (phase A)</p> <p>B Hot conductor wired to position #2 (phase B)</p> <p>C Hot conductor wired to position #3 (phase C) <sup>1</sup></p>

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



### Notes

<sup>1</sup> C, ABE, and C12S options are not used with Quick-Flex QFC, QSFC, OPT, and QD.

## PLUG-IN WIRING INFORMATION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. PLR22 (2-circuit) and 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.

Not for use with dedicated emergency circuits.

Note: Specifications subject to change without notice.



Wiring

# PLR

**Advanced 1 or 2-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 PLR22	<u>Circuits to which driver is connected</u>	LV Low-voltage dimming	G Ground (required)
PLR22	1 Black 2 Black and red	(blank) Not required for PLR22 A Black wire B Red wire		
		<u>Battery charging circuit (must be unswitched)</u> (blank) No battery charging circuit ELA Battery pack wired to black wire ELB Battery pack wired to red wire		

### Typical Applications

- Multiple-circuit and single-circuit for longer continuous rows
- Multiple-circuit with alternating fixtures on separate circuits and 2-circuit PLR22
- Multiple circuit with night-lights located along row as desired

## FEATURES & SPECIFICATIONS

**INTENDED USE** — Ideal one-for-one replacement of conventional HID and fluorescent high bay systems. Applications include warehousing, manufacturing, gymnasiums, and other large indoor spaces with mounting heights up to 60'. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

**Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location.** [Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.](#)

**CONSTRUCTION** — Structural elements such as the channel and end caps are fabricated from steel for maximum rigidity, IK ratings page 8. Wireguard attachment points provided. Lightweight aluminum heat sink designed to perform in ambient temperatures up to 55 °C for maximum naturally convective cooling. Optional rotatable outer light modules available when ROTO option is specified, see page 4 for additional details.

**OPTICS** — General, narrow, wide and aisle distributions available to meet both horizontal and vertical light level requirements. Diffuse lens standard to provide glare control and LED protection. Optics are IP5X rated.

Patent-pending Acuity-exclusive Fresnel pattern molded into lens for crisp distributions and interchangeability in the field.

**ELECTRICAL** — L92 at 60,000 hours. Utilizes a 90°C case temperature driver for maximum life at high temperatures. 0.90 power factor. Luminaire Surge Protection Level: Designed to withstand up to 6kV/3kA per ANSI C82.77-5-2015. Luminaire Surge Protection Level: Designed to withstand up to 10kV/5kA per ANSI C82.77-5-2015, optional. Available as 120-277V or 347-480V input.

0-10V dimming standard for a dimming range of 100% to 10%.

**WIRELESS NETWORKING** — nLight® AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and nLight AIR is available with or without an integral sensor. Integrated smart sensors or dimming and switching modules must be 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 this a great solution for any application.

**INSTALLATION** — Suitable for suspension by chain, cable, surface mounting when using compatible surface mount bracket (THUN accessory ordered separately), and hook monopoint or single (pendant) mount. To maintain ambient listing, fixture should be mounted at a minimum plenum height of 18".

**LISTINGS** — CSA certified to US and Canadian safety standards. Damp location listed. Suitable for ambient temperatures from -40°F (-40°C) to 131°F (55°C) when suspended 18" from ceiling. The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Acuity Brands is under license. Other trademarks and trade names are those of their respective owners.

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.

**BUY AMERICAN** — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

**WARRANTY** — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**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	DLC QPL Product ID	DLC Premium?
IBG 12000LM SEF AFL GND MVOLT GZ10 40K 80CRI DWH	IBG 12L MVOLT	PAMMN2VX	✓
IBG 15000LM SEF AFL GND MVOLT GZ10 40K 80CRI DWH	IBG 15L MVOLT	P3G6HADN	✓
IBG 18000LM SEF AFL GND MVOLT GZ10 40K 80CRI DWH	IBG 18L MVOLT	P851GVPE	✓
IBG 24000LM SEF AFL GND MVOLT GZ10 40K 80CRI DWH	IBG 24L MVOLT	PZBJQY5S	✓
IBG 12000LM SEF AFL GND MVOLT GZ10 50K 80CRI DWH	IBG 12L MVOLT 5K	P7TZ4ZV	✓
IBG 15000LM SEF AFL GND MVOLT GZ10 50K 80CRI DWH	IBG 15L MVOLT 5K	PMXBGZJS	✓
IBG 18000LM SEF AFL GND MVOLT GZ10 50K 80CRI DWH	IBG 18L MVOLT 5K	P85EZU7	✓
IBG 24000LM SEF AFL GND MVOLT GZ10 50K 80CRI DWH	IBG 24L MVOLT 5K	PQ5CSK48	✓

Catalog Number
Notes
Type



LED High Bay

# IBG



### Embed nLight controls today. Prepare for tomorrow.

Now	Tomorrow
User-friendly install	Scalability
Enhanced energy savings	Space configuration
Code compliance	Future-ready

### 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 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

A+ Capable options indicated by this color background.

ORDERING INFORMATION

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

Example: IBG 24000LM SEF AFL GND MVOLT GZ10 40K 80CRI DWH

Series	Lumen package	Performance package	Lens	Distribution	Voltage	Driver	Color temperature	Coloring rendering index
IBG	8000LM 8,000 lumens ‡	SEF Standard efficiency	AFL Acrylic, frosted	GND General	MVOLT 120-277V	GZ10 0-10V dimming	35K 3500 K	70CRI 70 CRI
	12000LM 12,000 lumens		ACL Clear acrylic		HVOLT 347-480V ‡		40K 4000 K	80CRI 80 CRI
	15000LM 15,000 lumens	HEF Premium efficiency	PCL Clear polycarbonate	ND Narrow WD Wide ADL Rack	120 120V		50K 5000 K	90CRI 90 CRI ‡
	18000LM 18,000 lumens		PFL Semi-diffuse polycarbonate		208 208V			
	24000LM 24,000 lumens		L/LENS Less lens ‡		240 240V			
	30000LM 30,000 lumens		ATL Acrylic textured lens		277 277V			
	36000LM 36,000 lumens ‡		PTL Polycarbonate textured lens		347 347V ‡			
	48000LM 48,000 lumens ‡				480 480V ‡			
	60000LM 60,000 lumens ‡							
	72000LM 72,000 lumens ‡							

Options		Finish
BAA Buy America(n) Act Compliant	Individual Controls (LSXR): ‡	DNA Natural aluminum
Emergency batteries ‡	LSXR6 360° integral high mount motion sensor with standard on/off operation (formerly LAOZU) <a href="#">LINK</a>	DWH Gloss white
E10WCP 10W emergency battery pack, Certified in CA Title 20 MAEDBS ‡	LSXR6 HL 360° integral high mount motion sensor with high/low/(Off) occupancy operation (formerly LAHOSZU) (For High/Low only, bypass relay)	MB Matte black
IE20WCPHE 10W 20W emergency battery pack, Certified in CA Title 20 MAEDBS ‡	LSXR6 P 360° integral high mount motion sensor with On/Off switching photocell (formerly LAPZU)	
IE30WCPHE 10W 30W emergency battery pack, Certified in CA Title 20 MAEDBS ‡	LSXR6 ADC 360° integral high mount motion sensor with dimming & switching photocell (formerly LAMOSZU)	
	LSXR6 ANL 360° integral high mount motion sensor with High/Low (Off) occupancy dimming & auto-dimming photocell;	
SPD Surge protection device ‡	*For 360° integral Low Mount sensors, replace "6" in nomenclature with "10". For High Mount Aisleway sensors, replace "6" in nomenclature with "50". Ex: LSXR10 ADC	
ETS Generator transfer device ‡	Individual Controls with Bluetooth Programming (Haleon) ‡	
SF Single fuse ‡	HLN45 OCC 360° integral high mount motion sensor; Bluetooth enabled <a href="#">LINK</a> (formerly HLN360)	
DF Double fuse ‡	HLN45 HL 360° integral high mount motion sensor with High/Low (Off) occupancy detection; Bluetooth enabled (formerly HLN360HL)	
OUTCTR Wiring leads pulled through back center of fixture ‡	HLN45 ADC 360° integral high mount motion sensor. On/Off occupancy detection with auto-dimming photocell; Bluetooth enabled (formerly HLN360ADC)	
OCS RELOC® OnePass® selectable cable 6' installed ‡	HLN45 ANL 360° integral high mount motion sensor with High/Low (Off) occupancy dimming & auto-dimming photocell; Bluetooth enabled (formerly HLN360ANL)	
OCS4C RELOC® One Pass® selectable cable 6' installed. ‡	*For integral Aisle Mount sensors, replace "45" in nomenclature with "45A". Ex: HLN45A ADC	
OCU___ RELOC® OnePass® unselectable cable 6' installed (must specify tap position) ‡	nLight Wired Network Controls	
IMP Integrated modular plug ‡	NCMB6 nLight High Mount Occupancy Sensor with Dimming, pre-wired <a href="#">LINK</a> (Includes dimming Power Pack) ‡	
RRL___ RELOC®-Ready luminaire. (Not available with Haleon sensor options) See page 16 for ordering information ‡	NPP16 D nLight dimming & switching module <a href="#">LINK</a> ‡	
WGX Standard wire guard, installed (not available with Haleon sensor)	*For 360° integral Low Mount sensors, replace "6" in nomenclature with "10". For high Aisle Mount sensors, replace "6" with "50". Ex: NCMB50	
ROTO Rotatable optics ‡	nLight AIR Wireless Controls ‡	
JP Job Pack Packaging (Consult table on page 11 for details)	NLTAIR2 RLSXR6 nLight AIR (wireless) gen 2 control device with high mount occupancy and daylight sensor	
Cord sets ‡	NLTAIR2 RLSXR10 nLight AIR (wireless) gen 2 control device with low mount occupancy and daylight sensor	
CPSBW 6' white damp location cord with straight blade plug (voltage will match fixture)	NLTAIR2 RMSOD45 Embedded nLight AIR (wireless) gen 2 control device with high mount occupancy and daylight sensor <a href="#">LINK</a>	
CPTLW 6' white damp location cord with twist-lock plug (voltage will match fixture)	NLTAIR2 RIO nLight AIR (wireless) gen 2 control device (dimming & switching) <a href="#">LINK</a>	
CNPW 6' white cord, no plug	*For 360° integral Low Mount sensors, replace "45" in nomenclature with "7". For high Aisle Mount sensors, replace "45" with "45A". Ex: NLTAIR2 RMSOD45A	
CNP4CW 6' white cord with 4 conductors, no plug (for use when unswitched hot is required for battery pack)	**For guidance on which sensors to use with emergency generator power, consult table on page 9.	
CNP5CW 6' white cord, 5 conductor, no plug, damp location		
CNP5CDW 6' white cord, 5 conductors (for bringing dimming leads out of fixture)		

NOTE: ‡ indicates option chosen has ordering restrictions. Please reference ordering restrictions chart, page 4. Options are sorted alphanumerically.

See Accessories and option value restrictions on next page



Accessories: Order as separate catalog number.		
<b>Mounting:</b>		
IBAC120 M100	Aircraft cable 10' with hook (one pair)	CS1WIMP Straight plug, 120V
IBAC240 M75	Aircraft cable 20' with hook (one pair)	CS3WIMP Twist-lock, 120V
IBHMP	Hook monopoint	CS7WIMP Straight plug, 277V
HBBS36	Chain hanger with chain, 36" (one pair)	CS11WIMP Twist-lock, 277V
IBGACVH	Aircraft 10' V hanger (one pair)	CS25WIMP Twist-lock 347V
IBGPMPHB	Pendant monopoint splice box, includes side covers (3/4" hub) for use with OUTCTR option, not available with backpack ‡	CS93WIMP 600V SO white cord, no plug (no voltage required)
THUN	Tong hanger bracket (order 2 per fixture) ‡	CS97WIMP Twist-lock 480V
		MSIIMPBG Aisle sensor for use with IMP option
		MSI360IMPBG 360° sensor for use with IMP option
		<b>*Base fixture must be ordered with IMP option when ordering this accessory.</b>
		<b>Wire guards (gloss white*) - not available with Haleon sensor</b>
		<b>SEF Lumen Packages</b>
		<b>HEF Lumen Packages</b>
WGIBG22	8000LM, 12000LM, 15000LM	8000LM
WGIBG24	18000LM, 24000LM, 30000LM	12000LM, 15000LM
WGIBG26	36000M	18000LM, 24000LM, 30000LM, 36000LM
WGIBG44	48000LM, 60000LM	-
WGIBG46	72000LM	48000LM, 60000LM, 72000LM
		*For DNA wire guards, add DNA to end of nomenclature. Ex: WGIBG26DNA
		*For MB wire guards, add MB to end of nomenclature. Ex: WGIBG26MB

**CORD SET ORDERING INFORMATION** Cord sets cannot be ordered as accessories

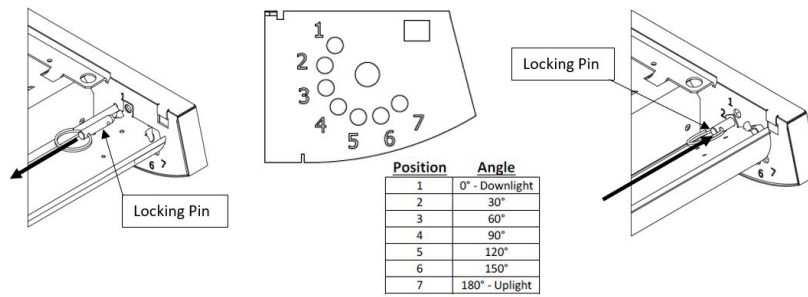
Plug Option	Plug type	Amperage**	Gauge	# of conductors	Color	Location	Length
CNP Cord Only	(blank) No Plug Option (for Cord Only option)	(blank) 15 amps	(blank) 18 gauge standard	(blank) 3 conductors (blk/wht/grn)	(blank) Black	(blank) Damp Location	(blank) 6 feet
CP Cord with Plug	TL Locking Type	20A 20 amps		4C 4 conductors; Use with Battery option when unswitched hot is needed	W White		3FT 3 feet
	SB Straight blade*			5C 5 conductors; Use when fixture has 2 drivers and separate operation is required			10FT 10 feet
				5CD*** 5 conductors; Use with dimming driver when dimming leads are desired (Not for use with dimming sensors)			12FT 12 feet
							15FT 15 feet
							20FT 20 feet

\* Not available wet location.  
 \*\* Amperage is only configurable for cords with plugs  
 \*\*\* Not available with plugs.

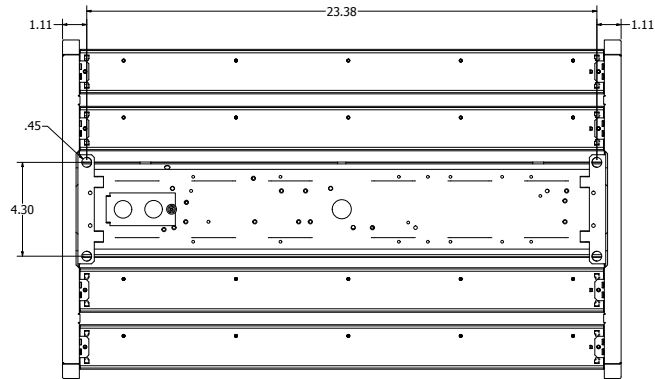
‡ Option Value Ordering Restrictions	
Option value	Restriction
347	Not available with ETS,nPP16 D, E10WCP, EM or ER sensor solutions.
36000LM	When ordering 347V or 480V with NLTAIR2 or Haleon, <b>fixture utilizes backpack adding 3.09" depth to fixture (see page 9 for line art).</b>
480	Not available with ETS,nPP16 D, E10WCP, EM or ER sensor solutions.
48000LM	When using IBGPMPHB, mono-point bracket mounts off-center, requiring aircraft cables for additional fixture support and fixture leveling. Must use additional method such as flexible conduit (supplied by others) to bring wiring to pendant mono-point when using for wiring box.
60000LM	When using IBGPMPHB, mono-point bracket mounts off-center, requiring aircraft cables for additional fixture support and fixture leveling. Must use additional method such as flexible conduit (supplied by others) to bring wiring to pendant mono-point when using for wiring box.
72000LM	When using IBGPMPHB, mono-point bracket mounts off-center, requiring aircraft cables for additional fixture support and fixture leveling. Must use additional method such as flexible conduit (supplied by others) to bring wiring to pendant mono-point when using for wiring box.
8000LM	When ordering 347V or 480V with NLTAIR2 or Haleon option, <b>fixture utilizes backpack adding 3.09" depth to fixture (see page 9 for line art).</b>
90CRI	Only available with SEF. 90CRI configurations have longer lead times.
Cord sets	Must specify voltage on cord sets with plugs. Cords come standard out center back of fixture. Refer to cord set ordering table, page 3 for more configurations. Non-standard configurations have extended lead times. CNP5CW is not available with any sensors. CNP5CDW is not available with sensors that have dimming options.
DF	Available on 208, 240, 480V. Not available with MVOLT or HVOLT.
E10WCP	Only available with 8000LM. MVOLT only. Not available with IMP option. <b>Fixture utilizes backpack, adding 3.08" to fixture depth (see page 9 for line art).</b>
Emergency batteries	Not available with IMP option. Emergency batteries alter fixture construction, (see pg. 9 for batteries that use a backpack and line art) Not available with cords with plugs. Use CNP4CW or OCS4C when unswitched hot is required for batter pack options. Consult standard wiring detail on page 9.
ETS	MVOLT only. Not available with cord sets or batteries. When sensor is required, please use the ER sensor option (reference page 9). When ordered with 72000LM, fixture cannot be surface mounted (THUN brackets). Consult table on page 7 for max operating temperature. Utilizes <a href="#">ETS20 DR</a> for 72000LM and <a href="#">ETS 924 DR</a> for all others.
HVOLT	Not available with ETS,nPP16 D, E10WCP, EM or ER sensor solutions.
IBGPMPHB	When using with 48000LM, 60000LM, or 72000LM, mono-point bracket mounts off-center, requiring aircraft cables for additional fixture support and fixture leveling. Must use additional method such as flexible conduit (supplied by others) to bring wiring to pendant mono-point when using for wiring box.
IE20WCPHE	Not available with 8000LM or IMP option. <b>Battery adds 2.8" depth to fixture (see page 9 for line art).</b>
IE30WCPHE	Not available with 8000LM or IMP option. <b>Battery adds 2.8" depth to fixture (see page 9 for line art).</b>
IMP	Must specify voltage. Not available with nLight wired sensors, batteries, or OUTCTR option. Fixture requires IMP power cord accessory.
Individual controls (Haleon)	Refer to page 13 for Haleon sensor default settings matrix. When ordered with ER sensor, ETS is used. Not available with other controls. Low temperature (LT) option standard, do not call out.
Individual controls (LSXR)	Comes standard with SPD. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). When ordered with ER sensor, ETS is used. Not available with other controls. Refer to page 14 for additional LSXR ordering options. Not available with CNP5CW or CNP5CDW
nLight wireless	Not available with Haleon or nLight wired options. When ordered with ER sensor, ETS is used. Not available with other controls. Normal luminaires (non-emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.
L/LENS	Lens is always recommended.
NCEM6	Sensor wired via CAT5 to nPP16 D dimming power pack. CAT5e connector cable also included. Ships standard with SPD. Only available with 120, 277 or 347V. Not available with other controls.
nPP16 D	Not for use with THUN accessory. Ships standard with SPD. Only available with 120, 277, or 347V. Not available with IMP or nLight wireless options.
OCS	Must specify voltage. Fixture will bear dry location label. Order OCS10 for 10' cord. Consult standard wiring detail on page 9.
OCS4C	Fixture will bear a dry location label. Use when unswitched hot is required for battery pack options, consult standard wiring detail on page 9.
OCU_	Must specify voltage. When 0-10V dimming leads are required, use C12S option. C12S option is not available with dimming sensors. Fixture will bear dry location label.
OUTCTR	Not available with emergency batteries. Requires IBGPMPHB accessory to mount fixture. Not available with cord set, ETS and IMP options.
ROTO	Available with IBG 8000LM, 12000LM, 15000LM, 18000LM, 24000LM, 30000LM or 36000LM only.
RRL	When dimming leads are required use C12S option. Not for use with dimming sensors.
SF	Available on 120, 277, 347V. Not available with MVOLT or HVOLT.
SPD	Standard with HVOLT, 347, 480, ETS, E10WCP, IE20WCPHE HVOLT, IE30WCPHE HVOLT, LSXR, NPP16 D, NPP16 D ER and RPP20 D EM options. Standard with 8000LM when ordered with Haleon and NLTAIR2. Only specify MVOLT, 120, 208, 240, or 277V when additional surge protection is needed.
THUN	Maximum ambient temperature of standard fixture mounted with THUN is 113°F (45°C). Not available with MSIMPIBG, MSI360IMPIBG, NPP16 D options, or any configurations that utilize fixture backpack (see pg. 9 for batteries that use a backpack). Not available with 72000LM with ETS.

## ROTATABLE OPTICS

- Rotate in 30° increments, 0° - 180°
- Create Custom Distributions
- 30° - light up rack
- 90° - wall wash
- 180° - Uplight



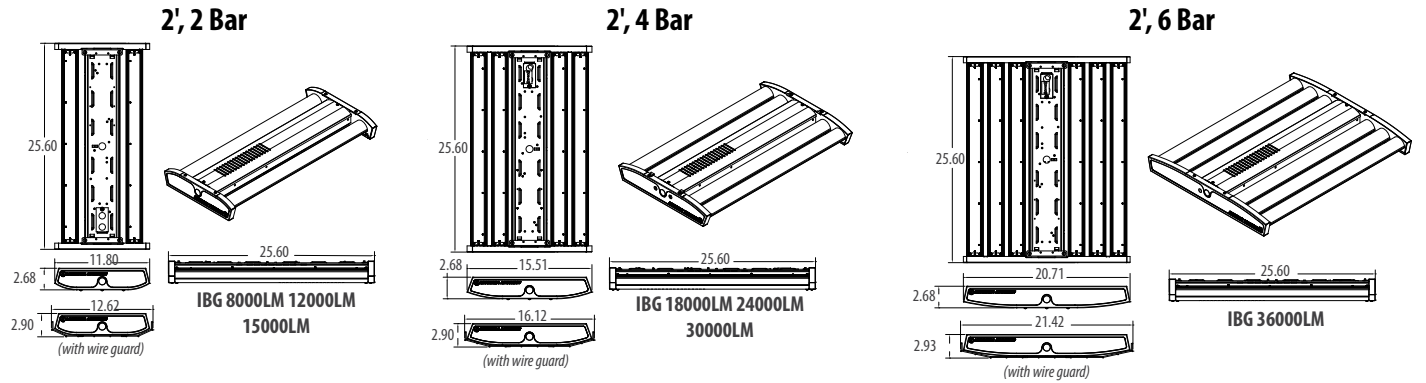
## HANGER HOLE DIMENSIONS



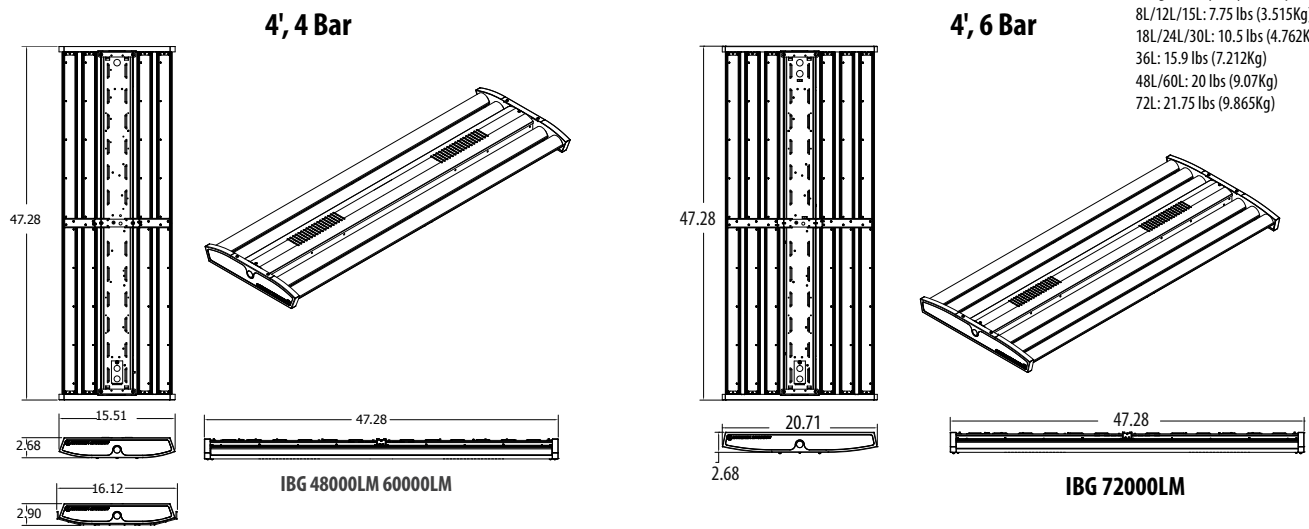
## LINE ART AND DIMENSIONS

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

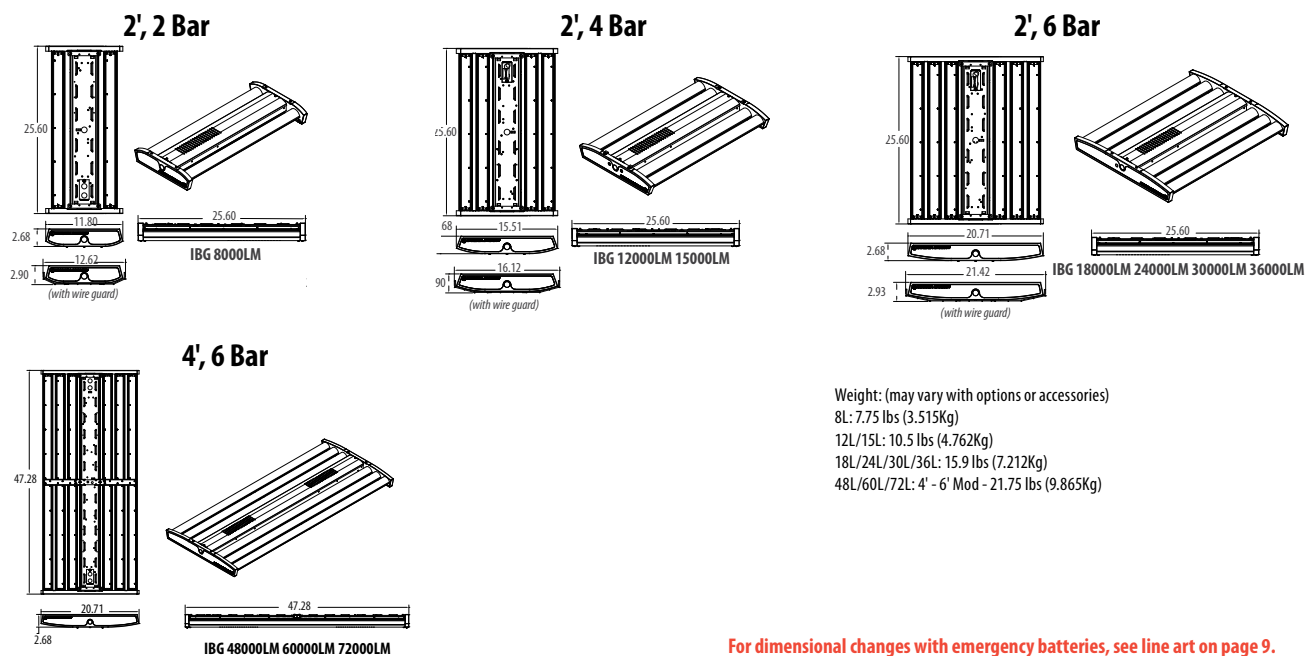
### IBG SEF DIMENSIONS



Weight: (may vary with options or accessories)  
8L/12L/15L: 7.75 lbs (3.515Kg)  
18L/24L/30L: 10.5 lbs (4.762Kg)  
36L: 15.9 lbs (7.212Kg)  
48L/60L: 20 lbs (9.07Kg)  
72L: 21.75 lbs (9.865Kg)



### IBG HEF DIMENSIONS



For dimensional changes with emergency batteries, see line art on page 9.

**IBG OPERATIONAL DATA**

IBG SEF			AFL GND	
			Acrylic Frosted, General	
Lumen Package	Wattage (277V)	Lumen Output	LPW	
Delivered Lumens 4000K, 80CRI SEF	8000LM	48	7845	163
	12000LM	76	11856	156
	15000LM	93	14774	159
	18000LM	105	18531	176
	24000LM	144	24490	170
	30000LM	178	29586	166
	36000LM	218	35451	163
	48000LM	284	47261	166
	60000LM	357	59715	167
72000LM	426	71168	167	
Delivered Lumens 5000K, 80CRI SEF	8000LM	48	7970	165
	12000LM	76	12045	158
	15000LM	93	15010	161
	18000LM	105	18297	174
	24000LM	144	25046	174
	30000LM	178	30059	169
	36000LM	218	36018	165
	48000LM	284	48017	169
	60000LM	357	60670	170
72000LM	426	72306	170	

IBG HEF			AFL GND	
			Acrylic Frosted, General	
Lumen Package	Wattage (277V)	Lumen Output	LPW	
Delivered Lumens 4000K, 80CRI HEF	8000LM	47	7913	167
	12000LM	68	11944	176
	15000LM	85	14941	176
	18000LM	100	17902	179
	24000LM	134	23845	178
	30000LM	170	29819	175
	36000LM	214	35900	168
	48000LM	280	47662	170
	60000LM	343	57621	168
72000LM	425	71124	167	
Delivered Lumens 5000K, 80CRI HEF	8000LM	47	8092	171
	12000LM	68	12215	180
	15000LM	85	15280	180
	18000LM	100	18308	183
	24000LM	134	24386	182
	30000LM	170	30495	179
	36000LM	214	36715	172
	48000LM	280	48744	174
	60000LM	343	58929	172
72000LM	425	72738	171	

**SCALING FACTOR TABLES**

CCT	Multiplier
3000K	0.93
3500K	0.96
4000K	0.98
5000K	1.00

CRI	Multiplier
70CRI	1.05
80CRI	1.00
90CRI	0.87

General Distributions	Multiplier
AFL GND	1.00
ACL GND	1.01
PFL GND	0.83
L/Lens	1.04

Other Distributions	Multiplier
AFL GND	1.00
ATL ND	1.00
ATL WD	1.00
ATL AD	1.01

**PHOTOMETRICS**

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



**IBG CHARACTERISTICS**

Lumen package	Wattage								Length	Width	Depth	Comparable Light Source
	Standard efficiency				High efficiency							
	120V	277V	347V	480V	120V	277V	347V	480V	Dimensions are shown in inches (centimeters) unless otherwise noted. Dimensions are for SEF fixtures.			
8000LM	48	48	48	48	47	47	47	47	25.6	11.8	2.75	100W MH, 4-lamp T8 NBF
12000LM	77	76	75	75	69	68	67	68	25.6	11.8	2.75	175W MH, 4-lamp T8 HBF, 2-lamp T5HO
15000LM	95	93	93	93	86	85	85	85	25.6	11.8	2.75	200W MH, 6-lamp T8 NBF
18000LM	106	105	106	105	100	100	99	99	25.6	15.51	2.75	250W MH, 6-lamp T8 HBF, 4-lamp T5HO
24000LM	147	144	145	145	135	134	134	135	25.6	15.51	2.75	400W MH, 6-lamp T5HO
30000LM	182	178	179	179	172	170	171	171	25.6	15.51	2.75	575W MH, 10-lamp T8 HBF
36000LM	223	218	217	217	214	214	214	213	25.6	20.65	2.75	750W MH, 8-lamp T5HO
48000LM	290	284	287	285	280	280	279	278	47.29	15.51	2.75	875W MH, 10-lamp T5HO
60000LM	365	357	361	359	346	343	344	345	47.29	15.51	2.75	1000W MH
72000LM	435	426	431	428	428	425	426	427	47.29	20.65	2.75	1000W MH

**PROJECTED LUMEN MAINTENANCE**

IBG 2ft & 4ft						
Operating hours	0	15,000	30,000	45,000	60,000	100,000
Lumen maintenance factor	1	0.98	0.96	0.94	0.92	0.86

**IK RATING**

IK Rating	
Poly-carbonate Lens	IK10
Acrylic Lens	IK06

**AMBIENT TEMPERATURE RATINGS**

LUMENS	SUSPENDED	SUSPENDED SENSORS/ CONTROL	SURFACE	SURFACE SENSORS/ CONTROL	BATTERY	ETS
8000LM	55	55	45	45	45	40
12000LM	55	55	45	45	40	40
15000LM	55	55	45	45	40	40
18000LM	55	55	45	45	40	40
24000LM	55	55	45	45	40	40
30000LM	55	55	45	45	40	40
36000LM	55	55	45	45	40	40
48000LM	55	55	45	45	40	40
60000LM	55	55	45	45	40	40
72000LM	55	55	45	45	40	40

**LUMENS VS. AMBIENT TEMPERATURE**

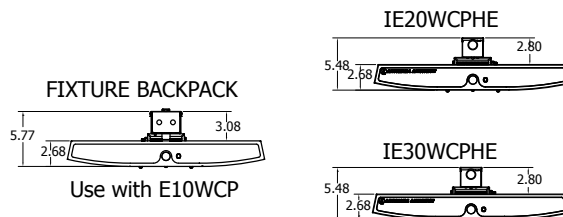
Ambient °C	Ambient °F	Lumen Multiplier
0	32	1.03
5	41	1.03
10	50	1.02
15	59	1.01
20	68	1.01
25	77	1
30	86	0.99
35	95	0.99
40	104	0.98
45	113	0.97
50	122	0.96
55	131	0.95

**Note:** Various add-on components such as sensors and batteries impact operating temperature range of IBG fixture. Consult component specification sheets or consult factory to determine if components have a different operating temperature range than IBG.

**EMERGENCY BATTERY PACK OPTIONS**

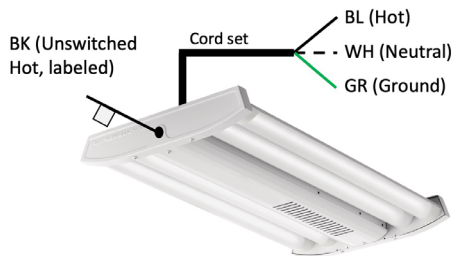
Factory-Installed Nomenclature	Battery Part Number	Utilizes BPK**	Suitable for Field Installation
E10WCP	<a href="#">PS1055CP</a>	Yes	No
IE20WCPHE (with MVOLT)	<a href="#">ILBLP-CP20-HE-SD-HV</a>	No	Yes
IE30WCPHE (with MVOLT)	<a href="#">ILBLP-CP30-HE-SD-HV</a>	No	Yes
IE20WCPHE (with HVOLT)	<a href="#">ILBHI-CP20-HE-SD-HV</a>	No	Yes
IE30WCPHE (with HVOLT)	<a href="#">ILBHI-CP30-HE-SD-HV</a>	No	Yes

Note: ILBHI is standard HVOLT battery pack



**CORD SETS WITH EMERGENCY WIRING DETAILS**

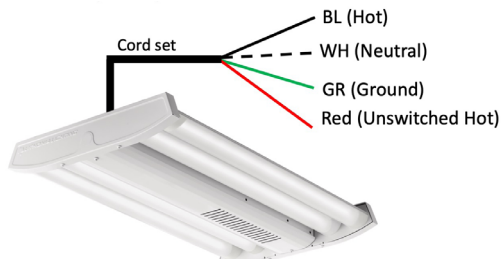
When battery is ordered with a 3-conductor cord set or Reloc® cord (OCS):



The 3 conductor cord set will include the hot (BL), neutral (WH), and ground (GR) conductors but not the unswitched hot for the battery.

- The unswitched hot for powering the battery (BK) will exit the fixture out of the KO of the backpack (for E10WCP batteries) or out of the KO on the end plate (all other battery options).
- If KO-mounted sensor is included, the unswitched hot will come out of opposite end plate KO.

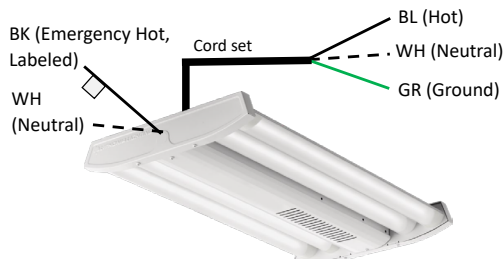
When battery is ordered with a 4-conductor cord set or Reloc® cord (OCS4C):



The 4 conductor cord set will include include the hot (BL), neutral (WH), and ground (GR) conductors AND the unswitched hot will be a separate conductor (RED).

**Note:** To get IBG wired from the factory for 24/7 operation, with on/off controlled by sensor rather than switch, contact your factory representative to request the normal hot and unswitched hot wired together in the fixture. Consult local codes to determine if this is allowable.

When ETS is used (individually or on ER sensor) with a 3-conductor cord set or Reloc® cord (OCS):



The 3 conductor cord set will include the hot (BL), neutral (WH), and ground (GR) conductors but not the dedicated hot and neutral for emergency function

- The emergency hot (BK) and neutral (WH) will exit the fixture out of the KO of the end plate.
- If KO-mounted sensor is included, the emergency hot and neutral will come out of opposite end plate KO.

**EMERGENCY LUMENS AFL GND (5000K 80CRI)**

		E10WCP	IE20WCPHE	IE30WCPHE
SEF	8000	2000	-	-
	12000	-	3900	5800
	15000	-	3900	5800
	18000	-	3900	5800
	24000	-	4000	6000
	30000	-	4000	6000
	36000	-	4000	6000
	48000	-	4000	6000
	60000	-	4000	6000
72000	-	4000	6000	

		E10WCP	IE20WCPHE	IE30WCPHE
HEF	8000	2100	-	-
	12000	-	4200	6200
	15000	-	4200	6200
	18000	-	4300	6300
	24000	-	4300	6300
	30000	-	4300	6300
	36000	-	4300	6300
	48000	-	4300	6300
	60000	-	4300	6300
72000	-	4100	6100	

**Note:** Based on AFL GND, 50K, 80CRI. For emergency lumen output of specific model, please consult factory.

**Note:** IE20WCPHE & IE30WCPHE both for MVOLT and HVOLT battery packs.

**EMERGENCY LUMENS CROSS AFL GND (5000K, 80CRI)**

		IE20WCPHE	IE30WCPHE
SEF	12000	3900	5800
	15000	3900	5800
	18000	3900	5800
	24000	4000	6000
	30000	4000	6000
	36000	4000	6000
	48000	4000	6000
60000	4000	6000	

**EMERGENCY OPERATION SCENARIOS**

	Standard Sensor or Control Device (commonly used with Battery Pack Option)	EM Solution (Used when switching single incoming hot to generator power)	ER Solution (Used when switching to generator power via a 2nd hot lead)
<b>Emergency Lighting Strategy</b>	*Luminaire-integral battery pack and emergency driver *Generator transfer device	*Diesel genset emergency backup supply *Slow transfer inverter (>30ms) emergency backup supply	*Fast Transfer (FT) inverter emergency backup supply *Uninterruptible Power System (UPS) emergency
<b>Recommended Control Device Option</b>	*Not specifically listed for emergency use. *Wired such that a separately listed emergency device provides emergency lighting power and/or control during loss of normal power scenarios.	*UL924 listed *Utilizes Power Interruption Detection to initiate lighting control override during loss of normal power scenarios. *Requires power interruption > 30 ms to luminaire during transfer to emergency backup supply.	*UL924 listed *Utilizes dedicated Normal Power sensing leads to initiate lighting control override during loss of normal power scenarios. *Requires connections to both emergency and normal power circuits.

	Function	Sequence of Operations	Standard Sensor or Control Device	ER Solution* (Generator 2 Hots)	IBG Standard Sensor Settings				
					Vacancy Time Out	Dim to Off Time Delay	High Trim	Low Trim (Vacancy Dim Level)	Photocell Set Point
<b>Standalone Sensors</b> (Individual control per fixture)	On/Off	Lights turn on when motion detected; Upon vacancy, Lights turn off after timeout.	LSXR6	LSXR6 ER	10 min	-	-	-	-
	High/Low (Off)	"Lights turn on to high trim when presence is detected; Upon vacancy, the lights dim to low trim after timeout and turn off after "Dim To Off" Time Delay. For High/Low (Never Off) function, bypass the relay by bringing power directly into driver rather than wiring hot through LSXR device."	LSXR6 HL	LSXR6 HL ER	10 min	2.5 min	100%	"10% (Driver Low)"	-
	Photocell	Lights turn on unless ambient light level is above set point; If ambient light levels in the space exceed the photocell set point, lights will turn off even during occupancy.	LSXR6 P	LSXR6 P ER	-	-	-	-	4 fc
	Dimming + Photocell	Lights turn on when presence is detected unless ambient light level is above set point; Upon vacancy, the lights dim to low trim, then turn off after timeout; During occupancy, automatically raise and lower electric light level to maintain set point and turn off, depending on ambient light.	LSXR6 ADC	LSXR6 ADC ER	10 min	2.5	-	-	4 fc
	Dimming + Photocell + High/Low	Lights turn on when presence is detected unless ambient light level is above set point; Upon vacancy, lights dim to low trim after timeout and remain at low trim until presence is detected; Automatically raise and lower electric light level to maintain set point during occupancy and during vacancy keeps lights at low trim if ambient light is not sufficient.	LSXR6 ANL	LSXR6 ANL ER	10 min	-	100%	10%	4 fc
Note: For 360° integral Low Mount sensors, replace "6" in nomenclature with "10". Ex. LSXR10 P. For High Aisle Mount sensors, replace "6" with "50".									

<b>Bluetooth Sensors</b> (Configurable via mobile Bluetooth app)	On/Off	Lights turn on when motion detected; Upon vacancy, Lights turn off after timeout.	HLN45 OCC	HLN45 OCC ER	10 min	-	-	-	-
	High/Low (Off)	Lights turn on to high trim when presence is detected; Upon vacancy, the lights dim to low trim after timeout and turn off after "Dim To Off" Time Delay.	HLN45 HL	HLN45 HL ER	10 min	2.5 min	100%	10%	-
	Dimming + Photocell	Lights turn on when presence is detected unless ambient light level is above set point; Upon vacancy, the lights dim to low trim during timeout; During occupancy, automatically raise and lower electric light level to maintain set point and turn off, depending on ambient light.	HLN45 ADC	HLN45 ADC ER	10 min	-	-	10%	50 fc
	Dimming + Photocell + High/Low (Never Off)	Lights turn on when presence is detected unless ambient light level is above set point; Upon vacancy, lights dim to low trim after timeout and remain at low trim until presence is detected; Automatically raise and lower electric light level to maintain set point during occupancy and during vacancy keeps lights at low trim if ambient light is not sufficient.	HLN45 ANL	HLN45 ANL ER	10 min	-	100%	10%	50 fc
Note: For High Aisle Mount sensors, replace "45" in nomenclature with "45A". Ex. HLN45A HL									

<b>nLight wired Networked Controls</b>	Dimming + Photocell + Occupancy	Programmable network sensor - On/Off Occupancy detection with Dimming (includes dimming powerpack externally mounted to fixture access plate)	NCEM6	NCEM6 ER	10 min	7.5 min	100%	10%	5 fc
	Dimming	Programmable On/Off control only with dimming - no sensor (device externally mounted to fixture access plate)	NPP16 D	NPP16 D ER	-	-	100%	1%	-
Note: For 360° integral Low Mount sensors, replace "6" in nomenclature with "10". For high Aisle Mount sensors, replace "6" with "50". Ex: NCEM50									

<b>nLight AIR Wireless Sensors</b>	Dimming + Photocell + Occupancy	Wirelessly programmable network sensor - On/Off control with dimming, occupancy detection, and daylight harvesting (Sensor embedded in fixture)	NLTAIR2 RMSOD45	NLTAIR2 RMSOD45 ER	7.5 min	-	100%	30%	50 fc
	Dimming	Wirelessly programmable On/Off control with dimming - no sensor (Device embedded in fixture)	NLTAIR2 RIO	NLTAIR2 RIO ER	-	-	100%	"10% (driver low)"	-
Note: For 360° integral Low Mount sensors, replace "45" in nomenclature with "7". For high Aisle Mount sensors, replace "45" with "45A". Ex: NLTAIR2 RMSOD45A EM sensors/controls are KO-mounted; all others integral. RPP20 D EM de-rates fixture to Damp Location.									

**\*All ER solutions except nLight wired, include standard sensor or control device with a factory-installed Iota ETS##-DR (UL924 bypass device). This device is integral to the fixture and will include a hot and neutral lead for the dedicated emergency circuit.**



**JOB PACK QUANTITIES**

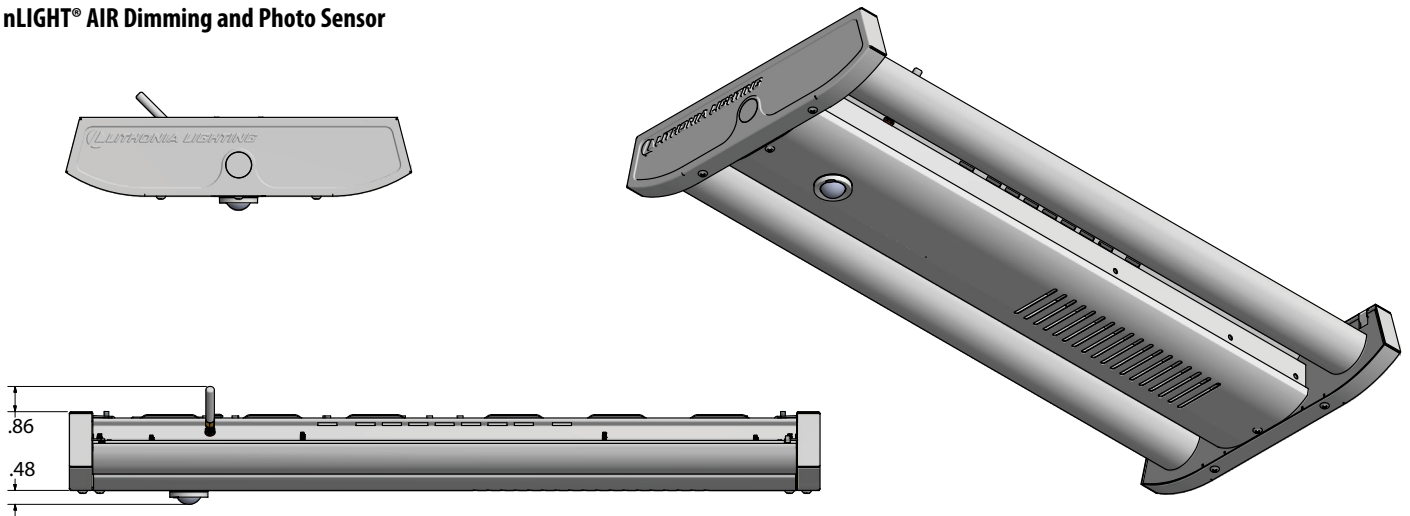
Series	Performance	Lumens	Job Pack Quantities			
			Standard / Base configuration	With Sensor, Cord Set, or RELOC	With Wire guards	With Battery
IBG	SEF	8000LM	90	60	60	48
		12000LM				
		15000LM				
		18000LM	64	40	40	32
		24000LM				
		30000LM				
		36000LM	52	32	32	28
		48000LM	30	24	20	14
	60000LM	26	18	18	14	
	72000LM					
	HEF	8000LM	90	60	60	48
		12000LM	64	40	40	32
		15000LM				
		18000LM	52	32	32	28
		24000LM				
		30000LM				
36000LM		26	18	18	14	
48000LM						
60000LM						
72000LM						

<b>Breakout Example:</b>		
<b>Ordered Line:</b>	Qty: 90	IBG 24000LM SEF AFL GND MVOLT GZ10 50K 80CRI LSXR6 DWH JP *Above configuration shows 40 units for Job Pack
<b>Breakout Line 1:</b>	Qty: 80	IBG 24000LM SEF AFL GND MVOLT GZ10 50K 80CRI LSXR6 DWH JP40 *Will have 2 pallets of 40 units each
<b>Breakout Line 2:</b>	Qty: 10	IBG 24000LM SEF AFL GND MVOLT GZ10 50K 80CRI LSXR6 DWH *Balance will ship in unit cartons

Note: If quantity ordered is less than Job Pack quantity for that configuration, the breakout line will default to unit packs.

**nLIGHT AIR SENSOR - RMSOD**

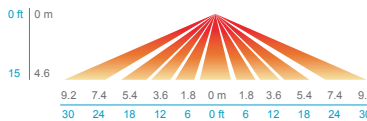
**nLIGHT® AIR Dimming and Photo Sensor**



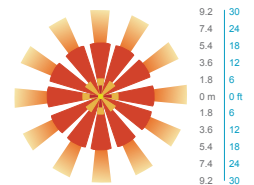
**7 - MINI-LOW BAY 360° LENS**

- Recommended for walking motion detection from mounting heights between 8 ft (2.44m) 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)
- Initial detection will occur earlier when walking across sensor's field of view than walking directly at sensor

SIDE VIEW



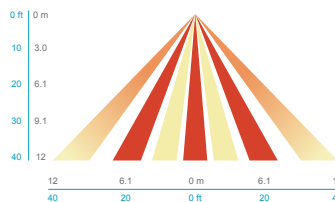
TOP VIEW



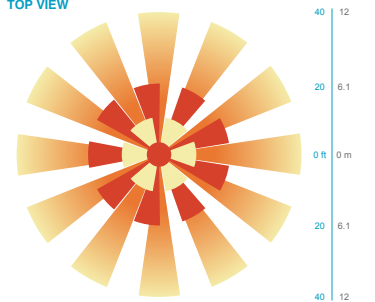
**45- HIGH MOUNT 360°**

- Optimized full coverage pattern for 10 – 40 ft. (3.1 – 12 m)
- Reliable detection of large motion (e.g. pedestrian walking traffic) up to 30 ft. (9.1 m) mounting height
- Reliable detection of extra-large motion (e.g. forklift traffic) up to 40 ft. (12 m) mounting height

SIDE VIEW



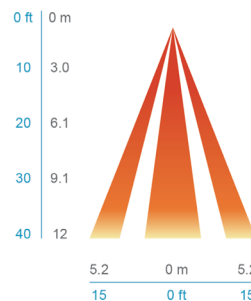
TOP VIEW



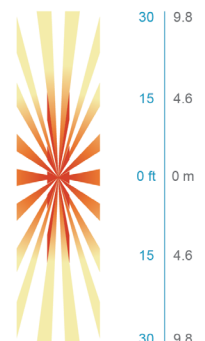
**45A HIGH MOUNT AISLEWAY**

- Optimized bi directional coverage pattern for aisleyways with 10 – 40 ft. (3.1 – 12 m) mounting heights
- 1.5X's mounting height equals approximate detection range
- Reliable detection of large motion (e.g. pedestrian walking traffic) up to 30 ft. (9.1 m) mounting height
- Reliable detection of extra-large motion (e.g. forklift traffic) up to 40 ft. (12 m) mounting height

SIDE VIEW



TOP VIEW



### HALEON - Integrated Occupancy Sensor with Bluetooth® Programmability

- Programmable sensor settings over Bluetooth® with Acuity VLP smartphone app.
- Default programming options to service various application spaces - occupancy detection, 0-10V dimming and daylight harvesting.
- 360° High Mount and High Mount Aisleway lens detection options for mounting heights up to 40 ft.
- Integrated retractable lens mask included to block unwanted detection.
- Sensor ambient temperature rating of -40°F (-40°C) to 158°F (70°C).



### Haleon Default Programming

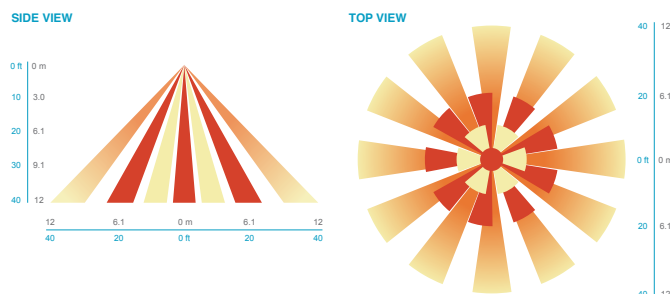
Model	Default Operation	LSXR Equivalent	Occupancy Time Delay	Photocell Mode	Photocell Set-point	Low Trim	High Trim	Dim to Off Time Delay
HLNxxx	On/Off Occupancy Only	LSXR6 LT or LA00STU	10 minutes	Disabled	n/a	n/a	100%	Disabled
HLNxxx HL	Occupancy w/ 0-10V Dimming (High/Low/Off)	LSXR6 HL LT or LAHOSTU	10 minutes	Disabled	n/a	10%	100%	2.5 minutes
HLNxxx ADC	Occupancy w/ Dim & Switch Photocell	LSXR6 ADC LT or LAM0STU	10 minutes	On/Off & Auto Dim	50 fc	10%	100%	0 seconds
HLNxxx ANL	Dim & Switch Photocell with High/Low Occupancy Operation	LSXR6 ANL LT or LAG0STU	10 minutes	On/Off & Auto Dim	50 fc	10%	100%	Stay Dim/ Never Off

Note: Lens detection noted in place of 'xxx'

### HALEON COVERAGE PATTERNS

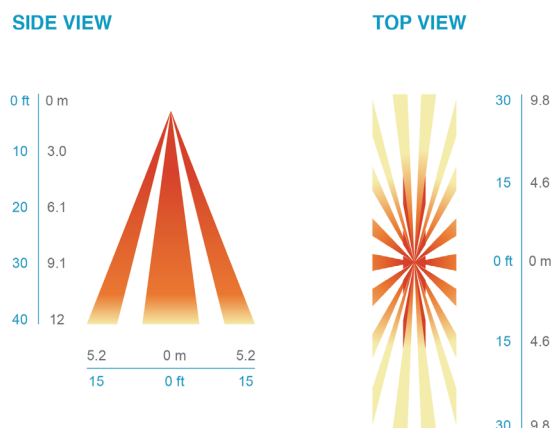
#### 45- HIGH MOUNT 360°

- Optimized full coverage pattern for 10 – 40 ft. (3.1 – 12 m)
- Reliable detection of large motion (e.g. pedestrian walking traffic) up to 30 ft. (9.1 m) mounting height
- Reliable detection of extra-large motion (e.g. forklift traffic) up to 40 ft. (12 m) mounting height
- Stow-able rotating lens shield can be utilized to mask areas in which detection is not desired



#### 45A HIGH MOUNT AISLEWAY

- Optimized bi directional coverage pattern for aisleways with 10 – 40 ft. (3.1 – 12 m) mounting heights
- 1.2X's mounting height equals approximate detection range
- Reliable detection of large motion (e.g. pedestrian walking traffic) up to 30 ft. (9.1 m) mounting height
- Reliable detection of extra-large motion (e.g. forklift traffic) up to 40 ft. (12 m) mounting height
- Stow-able rotating lens shield can be utilized to mask areas in which detection is not desired



**LSXR — Fixture Mount Occupancy Sensor** (see [www.AcuityControls.com](http://www.AcuityControls.com) for additional information)

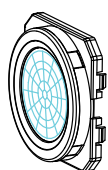
- Three interchangeable lens options to satisfy multiple mounting heights and coverage pattern requirements.
- Integrated mounting bracket drops lens down 3" from chase nipple.
- Single or dual relay versions — designed with robust protection from the harsh switching requirements of T5 and LED loads.
- Photocell and 0-10VDC dimming options.
- No PIR field calibration or sensitivity adjustments required.
- Sensor ambient temperature rating of 14°F (-10°C) to 131°F (55°C).

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature
<b>For shortest lead times use one of the following LSXR configurations</b>		
LSXR50 / LCOZU	CMRB 50	MSI
LSXR50 HL / LCHOSZU	CMRB 50 D	MSID
LSXR50 P / LCPZU	CMRB 50 P	MSIPED
LSXR6 / LAOZU	CMRB 6	MSI360
LSXR6 HL / LAHOSZU	CMRB 6 D	MSI360D
LSXR6 P / LAPZU	CMRB 6 P	MSI360PED



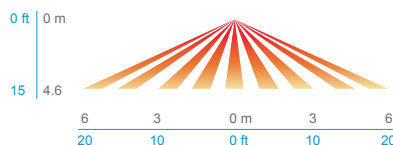
**LSXR COVERAGE PATTERNS**

**HIGH MOUNT 360° LENS (#6)**

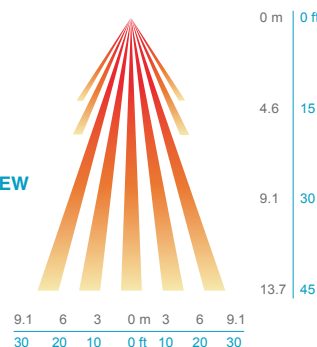


- Best choice for 15 to 45 ft (4.57 to 13.72 m) mounting heights
- 15 to 20 ft (4.57 to 6.10 m) radial coverage overlaps area lit by a typical high bay fixture
- Excellent detection of large motion (e.g. walking) up to a 35 ft (10.76 m) mounting height
- Excellent detection of extra large motion (e.g. forklifts) up to a 45 ft (13.72 m) mounting height

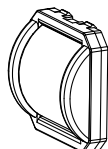
LOW VIEW



HIGH VIEW

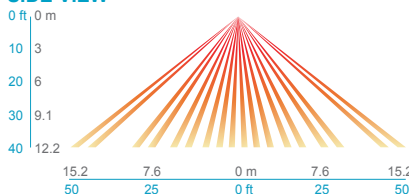


**HIGH MOUNT AISLEWAY LENS (#50)**

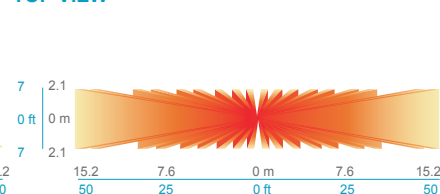


- Provides a bi-directional coverage pattern ideal for warehouse racking
- 1.2x mounting height equals approximate detection range in either direction
- Typical 40 ft (12.19 m) mounting detects 50 ft (15.24 m) in either direction
- Superior aisleway coverage compared to a masked 360° lens

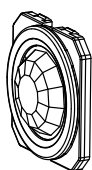
SIDE VIEW



TOP VIEW

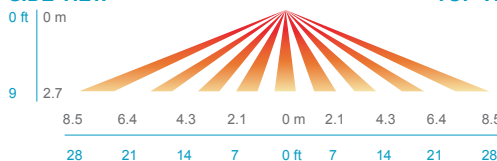


**LOW MOUNT 360° LENS (#10)**

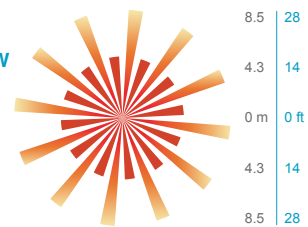


- Best choice for large motion detection (e.g. walking)
- 360° conical shaped pattern
- Provides ~24 ft (7.32 m) radial coverage (~2000 ft<sup>2</sup>) when mounted at 9 ft (2.74 m)
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage
- Detection range improves when walking across beams compared to into beams

SIDE VIEW



TOP VIEW



### IMP - Integrated Modular Plug

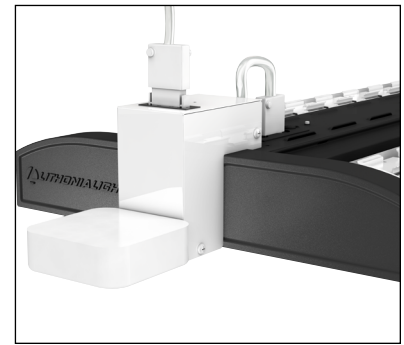
- The integrated modular plug (IMP) option allows the installer to plug and play a multitude of accessories.
- Cord sets connect quickly to any fixture with IMP option.
- IMP accessories include occupancy sensors, photocells, X-point relays.

IMP compatible cord sets <sup>1</sup>	
CS1WIMP	Straight plug, 120V
CS3WIMP	Twist-lock, 120V
CS7WIMP	Straight plug, 277V
CS11WIMP	Twist-lock, 277V
CS25WIMP	Twist-lock, 347V
CS93WIMP	600V SE00W white cord, no plug
CS97WIMP	Twist-lock, 480V

IMP compatible sensors	
MSIIMP	Aisle sensor
MSI360IMP	360° sensor

**Ordering Example**

Order As: Qty 1 - IBG 12000LM SEF AFL GND 120 GZ10 40K 80CRI IMP CP5BW DWH  
 Ships As: Qty 1 - IBG 12000LM SEF AFL GND MVOLT GZ10 40K 80CRI DWH  
 Qty 1 - CS1WIMP



**Notes**

- 1 Cord set required for fixture operation. All cord sets are 18/3, 6' white.

### RRL - RELOC®-Ready Luminaire

- RRL connectors to be used with the OnePass system.
- 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); non-dimming B Hot conductor wired to position #2 (phase B); non-dimming AE Hot conductor wired to position #1 (phase A), hot conductor #2 wired to position #2 (phase B); non-dimming <sup>1</sup> C12S Hot conductor in position #1 (phase A), low voltage conductor #1 in position #2, low voltage conductor #2 in position #3; dimming <sup>2</sup>

**Compatible RELOC® Cables for Industrial Luminaires** (ordered and shipped separately)  
 (click to view RELOC product page for more information)



**Notes**

- 1 AE commercial fixtures should disconnect the TSPL before unplugging the RRL so it does not go into discharge mode. Requires fixture to have battery option.
- 2 C12S option is used with the OnePass for 0-10V/DALI applications. Not for use with dimming sensors.