LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	A1/A1E

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.

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 12 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 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 for additional information.

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

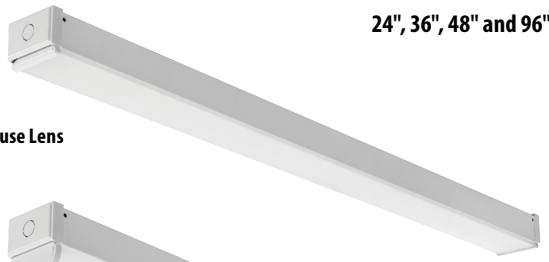
Stock configurations are offered for shorter lead times:

Stock Part Number	UPC	DLC QPL Product ID	DLC Premium
CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525816	PJANKZR4	Yes
CLX L48 3000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525885	PKW32VKL	Yes
CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525939	P77I8Z20	Yes
CLX L48 5000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525908	P8A42C1H	Yes
CLX L96 6000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525861	PPFTGRBV	Yes
CLX L96 6000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525915	PW6250TE	Yes
CLX L96 10000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525922	PYKOC7EW	Yes
CLX L96 10000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525830	PKYPL35K	Yes
CLX L48 3000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525960	PJANKZR4	Yes
CLX L48 3000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525892	PKW32VKL	Yes
CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525854	P77I8Z20	Yes
CLX L48 5000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525946	P8A42C1H	Yes
CLX L96 6000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525878	PPFTGRBV	Yes
CLX L96 6000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525823	PD0SSIAD	Yes
CLX L96 10000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525953	PYKOC7EW	Yes
CLX L96 10000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525847	PKYPL35K	Yes

LED Linear

CLX

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



Flat Diffuse Lens

Round Diffuse Lens

Wide Diffuse Lens

Buy American

A+ Capable Luminaire

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

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

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

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

Distribution	Voltage		Driver[14]	Color temperature	Coloring rendering index
(Blank) General	MVOLT 120-277V[10]	277 277V	GZ10 Generic 0-10V, dims to 10%[15]	30K 3000 K	80CRI 80 CRI
ND Narrow[8,9]	120 120V	347 347V[12,13]	EZ1 eldoLED 0-10V, dims to 1%[2]	35K 3500 K	90CRI 90 CRI
WD Wide[8,9]	208 208V[11]	480 480V[12,13]		40K 4000 K	
AD2 Aisle, 24° off center[8,9]	240 240V[11]			50K 5000 K	

Options

PS1050	Emergency battery pack, 10W, CA Title 20 Noncompliant[2,11,13,16,17]
E10WLCP	Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS[1,2,11,13,16,17]
BGTD	Generator transfer device, not avaialble with PS1050[13,16,18]
OCS	5', 18/3 Reloc selectable One Pass cable[16]
HA	High ambient, for use in ambient temperatures up to 50°C[11]
EPNKO	Decorative endplate, no knock out[19]
OUTCTR	Wiring leads pulled through back center of fixture[21]
OUTEND	Wiring leads pulled through end of fixture[21]
Cord Sets:	
CS1W	Staight blade plug, 120V[10,16]
CS3W	NEMA twist-lock plug, 120V[10,16]
CS7W	Staight blade plug, 277V[10,16]
CS11W	NEMA twist-lock plug, 277V[10,16]
CS25W	NEMA twist-lock plug, 347V[10,16]
CS97W	NEMA twist-lock plug, 480V[10,16]
CS93W	600V SEOOW white cord, no plug (no voltage required)
CS6WG16ST0WD5D	6' white cord, 16/5, no plug, includes low voltage dimming wires (no voltage required)[15]
PLR___	Plug-in wiring, see page 16 for ordering information
PLR1LVG	Plug-in wiring,low voltage dimming[22]
RRL___	RELOC®-ready luminaire. See page 15 for ordering information
SPD	Surge protection device, provides up to 6kV protection[20]
BAA	Buy America(n) Act Compliant
nLight® Wireless:[23,24]	
NLTAIR2 RES7	nLight® Generation 2 enabled PIR integral occupancy sensor with automatic dimming photocell
NLTAIR2 RES7PDT	nLight AIR Generation 2 enabled dual technology integral occupancy sensor with automatic dimming photocell
NLTAIR2 RIO	No sensor control
nLight® Wired:[23,25]	
N100	nLight® without lumen management
NES7	nLight® nES 7 PIR integral occupancy sensor[26]
NESPDT7	nLight® nES PDT 7 dual technology integral occupancy control[26]
NES7ADCX	nLight® nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell[26]
NESPDT7ADCX	nLight® nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell[26]
Individual controls:[23,25]	
MSD7	PIR integral occupancy sensor
MSDPDT7	PDT 7 dual technology integral occupancy control
MSD7ADC	PIR integral occupancy sensor with automatic dimming control photocell
MSDPDT7ADC	PDT integral occupancy sensor with automatic dimming control photocell

Finish

WH	White
GALVW	Galvanized with white lens end caps
GALVB	Galvanized with black lens end caps
MB	Matte black
SKGYW	Smoke gray with white lens end caps
SKGYB	Smoke gray with black lens end caps

See Accessories and footnotes on next page

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Accessories: *Order as separate catalog number.*

Mounting:

ZACVH M100	Adjustable 10' aircraft cable with Y hanger (1 pair)
ZAC120	One adjustable aircraft cable with canopy 120" [27]
ZACFP120	One adjustable aircraft cable with feed (3 conductor) and canopy, 120" [27]
ZACFPD120	One adjustable aircraft cable with feed (5 conductor) and canopy 120" [27]
ZAC240	One adjustable aircraft cable with canopy 240" [27]
ZACFP240	One adjustable aircraft cable with feed (3 conductor) and canopy, 240" [27]
ZACFPD240	One adjustable aircraft cable with feed (5 conductor) and canopy 240" [27]
SQ_	Swivel stem hanger (specify length in 2" increments up to 48") [27]

THCLX __	Tong hanger (Must specify color) (one pair) [28]
CLXANGBKT ____	Angle bracket, (Must specify color) (one pair) [28]
HC36 M12	Hanger chain, 36" (1 pair)

Sensors & Controls:

LSXR	Sensor Switch ® LSXR occupancy sensor [29]
NPP16D	nLight® switching/dimming module
NPP16DER	nLight® switching/dimming module with emergency relay
rPP20D	nLight® air dimming/switching module
XPA CMRB0	XPoint™ Wireless 0-10V relay, external, 55°C max ambient

Reflectors:

CLXRW24___	Wide decorative 24" reflector, (Must specify color) [30]
CLXRW36___	Wide decorative 36" reflector, (Must specify color) [30]
CLXRW48___	Wide decorative 48" reflector, (Must specify color) [30]
CLXRW96___	Two wide decorative 48" reflectors, (Must specify color) [30]
CLXRWU24___	Wide decorative 24" reflector with uplight, (Must specify color) [30]
CLXRWU36___	Wide decorative 36" reflector with uplight, (Must specify color) [30]
CLXRWU48___	Wide decorative 48" reflector with uplight, (Must specify color) [30]
CLXRWU96___	Two wide decorative 48" reflectors with uplight, (Must specify color) [30]
CLXRN24	Narrow 24" reflector, (Must specify color) [31]
CLXRN36	Narrow 36" reflector, (Must specify color) [31]
CLXRN48	Narrow 48" reflector, (Must specify color) [31]
CLXRN96___	Two narrow 48" reflectors, (Must specify color) [31]

Wireguards:

WGCLX24___	24" wireguard, (Must specify color) [32]
WGCLX36___	36" wireguard, (Must specify color) [32]
WGCLX48___	48" wireguard, XX, (Must specify color) 96" fixture requires two [32]

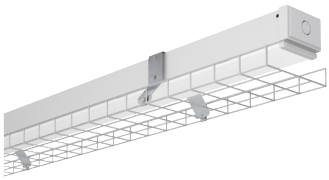
Notes

1 Not available with OUTCTR option.
2 Not available with HA option.
3 Not available with SEF when ordered in combination with EZ1.
4 Not available with NLTAIR2 RES7, NLTAIR2 RES7PDT, or NLTAIR2 RIO.
5 Not available with EZ1 when ordered with L24 with 5000LM or L36 with 7500LM.
6 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.
7 Only available with general distribution.
8 Not available with CLXRN accessories.
9 Available L/LENS only.
10 Not available with PS1050, E10WLCP, or BGTD.
11 Not available with BGTD option.
12 Voltage selected utilizes a step-down transformer. Not available with L24 when ordered with N100.Not available with PS1050, E10WLCP or BGTD option.
13 Requires SPD option.
14 When continuous row mounting, fixtures must all have the same driver selection.
15 Not available with Individual controls, nLight wired networking, nLight wireless networking, nLight wireless zone control options.
16 Must specify voltage.
17 Not available with L24 or L36. Not available with L48 in combination with N100.
18 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.
19 Not available OUTEND.
20 Required with PS1050, E10WLCP, BGTD, XAD, or XAD924.
21 Not available with PLR options.
22 Not available with XPoint, Individual controls, NLight Wired, or NLight Wireless options.
23 Sensor housing will be the same color as lens end caps.
24 Not available with L24 in combination with 5000LM, not available with L36 in combination with 7500LM, not available with L48 in combination with 10000LM, and not available with L96 in combination with 14000LM, 18000LM, or 20000LM. Not available with PLRs containing low voltage dimming wires.
25 Not available with any other control option. Requires EZ1.
26 Requires N100 option.
27 Ships standard as white.
28 Not available with louver, wireguards, wide reflectors.
29 More configurations on LSXR Specification Sheet.
30 L24 reflector is 22.65", L36 reflector is 34.01", L48 reflector is 46.80", L96 comes with two L48 reflectors.
31 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.
32 Not for use with CLX wide reflector accessories.

OPTIONS AND ACCESSORIES

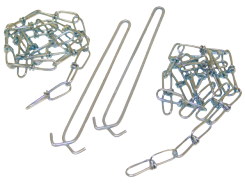
Narrow reflector
Ships separtely from fixture.
Order as:
CLXRN24___
CLXRN36___
CLXRN48___
CLXRN96___

Wide decorative reflector
Ships separtely from fixture.
Order as:
CLXRW24___
CLXRW36___
CLXRW48___
CLXRW96___



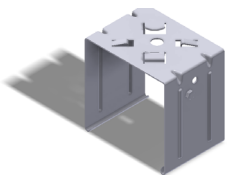
Wireguard
Ships separately from fixture:
96" fixture requires two WGCLX48.
Order as:
WGCLX24___
WGCLX36___
WGCLX48___

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



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

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



Tong hanger
Ships as a pair
Order As:
THCLX___

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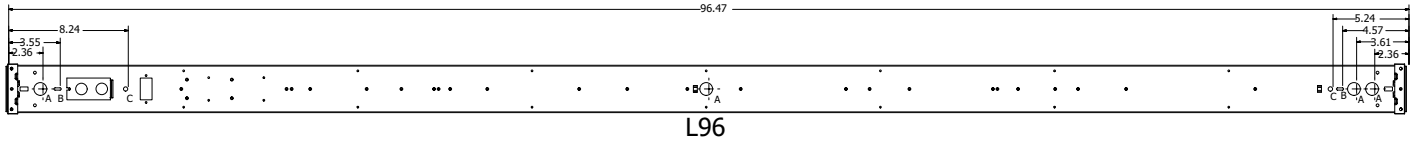
DIMENSIONS

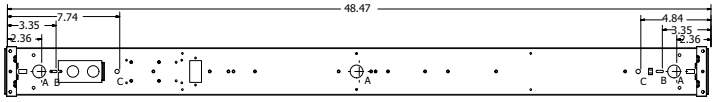
All dimensions are in inches (centimeters) unless otherwise indicated.
Dimensions may vary with options or accessories.

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.

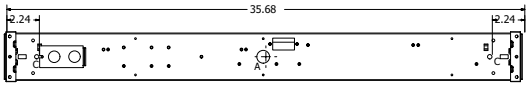
A - 7/8" KNOCK OUT
B - 0.5" by 0.16" SLOT
C - 0.3" DIA HOLE



L96



L48



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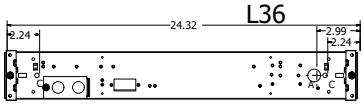
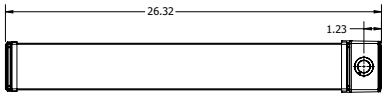


L24

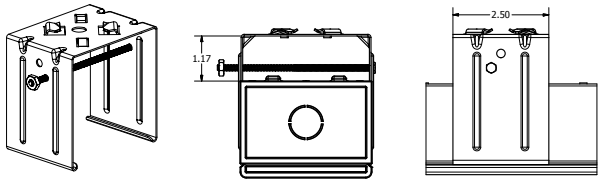


L24 WITH SENSOR

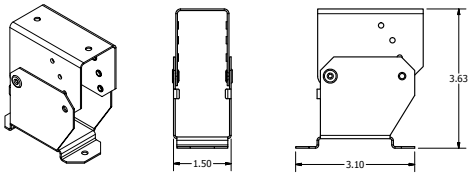
PALLET DIMENSIONS

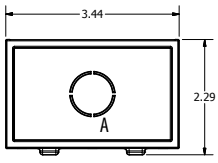
Length	Approx Weight	Fixtures per pallet	Pallet Dims (L X W X H)
L24	4 lb	100	54x46x37
L36	5 lb	80	54x46x37
L48	7.5 lb	64	54x46x37
L96	14 lb	64	98x46x37

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

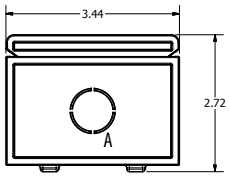


CLXANGBKT - SHIPS TWO PER ORDER
HOLES TO MOUNTING STRUCTURE ARE 0.175" DIA, 2.5" APART
FIXTURE SITS APPROXIMATELY 3.5" FROM STRUCTURE
WHEN MOUNTED HORIZONTAL TO STRUCTURE

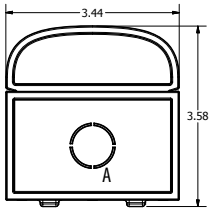




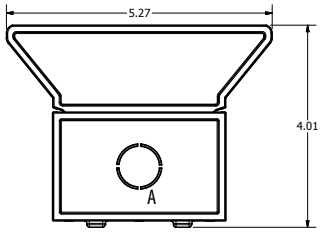
L/LENS



FDL



RDL



WDL

PHOTOMETRICS

See www.lithonia.com.

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POWER SENTRY EMERGENCY BATTERY PACKS

		SEF Emergency Lumens	HEF Emergency Lumens
PS1050	Factory installable	1400	1500
E10WLCP	Factory installable	1400	1500
PS1555LCP	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"	19.9	19.9	25.9	25.9	18.5	18.5	24.5	24.5	24	3.5	3.75	1-lamp 32WT8, 1-lamp 54W T5HO, 50W HID
5000LM	24"	41.9	41.9	47.9	47.9	37.9	37.9	43.9	43.9	24	3.5	3.75	2-lamp 32WT8, 1-lamp 54W T5HO, 70W HID
3750LM	36"	28.1	28.1	34.1	34.1	27.0	27.0	33.0	33.0	36	3.5	3.75	1-lamp 32WT8, 1-lamp 54W T5HO, 50W HID
7500LM	36"	62.9	62.9	68.9	68.9	56.8	56.8	62.8	62.8	36	3.5	3.75	2-lamp 32WT8, 1-lamp 54W T5HO, 70W HID
5000LM	48"	35.4	35.4	41.4	41.4	32.9	32.9	38.9	38.9	48	3.5	3.75	2-lamp 32WT8, 1-lamp 54W T5HO, 70W HID
10000LM	48"	77.1	77.1	83.1	83.1	70.4	70.4	76.4	76.4	48	3.5	3.75	3 -lamp 32WT8, 2-lamp 54W T5HO, 100W HID
10000LM	96"	70.8	70.8	76.8	76.8	65.8	65.8	71.8	71.8	96	3.5	3.75	3 -lamp 32WT8, 2-lamp 54W T5HO, 100W HID
20000LM	96"	154.2	154.2	160.2	160.2	140.8	140.8	146.8	146.8	96	3.5	3.75	6 - lamp 32WT8, 4 -lamp 54T5HO, 200W HID

AMBIENT TEMPERATURE RATINGS

Driver Package		GZ10			EZ1			Any Driver	
Length	Lumen package	Direct Surface	THCLX/ Suspended	HA Option (Direct or Suspended)	Direct Surface	THCLX	Suspended 18"	Xpoint/ BGTD Direct Surface	PS1050 Suspended
L24	1500LM	40C°	40C°	N/A	35C°	35C°	35C°	N/A	N/A
	2000LM	40C°	40C°		35C°	35C°	35C°		
	2500LM	40C°	40C°		35C°	35C°	35C°		
	3500LM	40C°	40C°		40C°	40C°	40C°		
	4500LM	40C°	40C°		35C°	35C°	40C°		
	5000LM	40C°	40C°		25C°	30C°	35C°		
L36	2250LM	40C°	40C°		40C°	40C°	40C°		
	3000LM	40C°	40C°		40C°	40C°	40C°		
	3750LM	40C°	40C°		40C°	40C°	40C°		
	5250LM	40C°	40C°		35C°	35C°	40C°		
	6750LM	30C°	40C°		35C°	35C°	40C°		
	7500LM	30C°	40C°		25C°	30C°	35C°		
L48	3000LM	40C°	40C°	50C°	40C°	40C°	40C°	35C°	25C°
	4000LM	40C°	40C°	50C°	40C°	40C°	40C°		
	5000LM	40C°	40C°	50C°	35C°	35C°	40C°		
	7000LM	30C°	40C°	N/A	35C°	35C°	40C°		
	9000LM	30C°	40C°		25C°	30C°	35C°		
	10000LM	30C°	40C°		25C°	30C°	35C°		
L96	6000LM	40C°	40C°	50C°	35C°	35C°	40C°		
	8000LM	30C°	40C°	50C°	35C°	35C°	40C°		
	10000LM	30C°	40C°	50C°	25C°	30C°	35C°		
	14000LM	40C°	40C°	N/A	35C°	35C°	40C°		
	18000LM	30C°	40C°		25C°	30C°	35C°		
	20000LM	30C°	40C°		25C°	30C°	35C°		

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CLX OPERATIONAL DATA

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage
					Color Temperature				
					3000K	3500K	4000K	5000K	
L/Lens	L24	1500LM	SEF	80	1497	1540	1582	1619	10.85
				90	1305	1333	1371	1441	10.85
			HEF	80	1493	1514	1582	1586	10.39
				90	1220	1237	1301	1301	10.39
		2000LM	SEF	80	2066	2125	2183	2235	14.48
				90	1801	1840	1892	1989	14.48
			HEF	80	2060	2089	2183	2189	13.46
				90	1684	1708	1796	1796	13.46
		2500LM	SEF	80	2616	2689	2763	2829	18.41
				90	2279	2329	2394	2517	18.41
			HEF	80	2607	2644	2763	2771	17.42
				90	2132	2161	2273	2273	17.42
		3500LM	SEF	80	3518	3617	3716	3804	25.83
				90	3065	3132	3220	3385	25.83
			HEF	80	3506	3556	3716	3726	25.04
				90	2867	2907	3057	3057	25.04
		4500LM	SEF	80	5040	5182	5325	5451	38.7
				90	4392	4487	4614	4851	38.7
			HEF	80	5024	5096	5325	5339	34.8
				90	4108	4165	4380	4380	34.8
		5000LM	SEF	80	5355	5506	5657	5791	41.48
				90	4667	4767	4902	5153	41.48
			HEF	80	5338	5414	5657	5672	38.11
				90	4364	4425	4653	4653	38.11
	L36	2250LM	SEF	80	2411	2547	2101	2207	16.36
				90	2479	2607	2146	2320	16.36
			HEF	80	2437	2554	1965	2095	15.47
				90	2547	2403	1992	2095	15.47
		3000LM	SEF	80	3221	3388	2730	2868	20.8
				90	3310	3133	2789	3015	20.8
			HEF	80	3167	3319	2553	2722	19.98
				90	3310	3123	2589	2722	19.98
		3750LM	SEF	80	4123	4337	3495	3671	26.47
				90	4236	4010	3570	3859	26.47
			HEF	80	4054	4248	3268	3485	25.09
				90	4236	3997	3314	3485	25.09
		5250LM	SEF	80	5545	5833	4700	4937	39.9
				90	5698	5393	4801	5190	39.9
			HEF	80	5452	5713	4396	4687	34.3
				90	5698	5376	4457	4687	34.3
		6750LM	SEF	80	7081	7448	6001	6303	54.85
				90	7275	6886	6131	6627	54.85
			HEF	80	6962	7294	5613	5984	47.97
				90	7275	6864	5691	5984	47.97
		7500LM	SEF	80	7756	8158	6574	6905	62.6
				90	7969	7543	6716	7260	62.6
			HEF	80	7626	7991	6148	6555	54.02
				90	7969	7519	6234	6555	54.02

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CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage
					Color Temperature				
					3000K	3500K	4000K	5000K	
L/Lens	L48	3000LM	SEF	80	3019	3104	3190	3265	20.32
				90	2631	2688	2764.	2906.	20.32
			HEF	80	3010	3052	3190	3198	19.01
				90	2461	2495	2624	2624	19.01
		4000LM	SEF	80	4034	4148	4262	4363	27.58
				90	3515	3591	3693	3882	27.58
			HEF	80	4021	4078	4262	4273	24.75
				90	3288	3334	3505	3505	24.75
		5000LM	SEF	80	5047	5189	5332	5458	34.8
				90	4398	4493	4620	4857	34.8
			HEF	80	5031	5102	5332	5346	31.77
				90	4113	4171	4386	4386	31.77
		7000LM	SEF	80	7311	7517	7724	7907	49.05
				90	6371	6509	6692	7036	49.05
			HEF	80	7288	7391	7724	7744	44.67
				90	5959	6042	6353	6353	44.67
		9000LM	SEF	80	9215	9475	9735	9967	63.99
				90	8031	8204	8435	8869	63.99
			HEF	80	9186	9317	9735	9762	58.58
				90	7511	7615	8008	8008	58.58
		10000LM	SEF	80	10299	10590	10880	11139	73.37
				90	8975	9169	9427	9912	73.37
			HEF	80	10266	10412	10880	10910	66.27
				90	8394	8511	8950	8950	66.27
	L96	6000LM	SEF	80	5942	6110	6278	6427	38.15
				90	5178	5290	5439	5719	38.15
			HEF	80	5923	6008	6278	6294	35.54
				90	4843	4911	5164	5164	35.54
		8000LM	SEF	80	7929	8153	8376	8575	52.32
				90	6910	7059	7258	7631	52.32
			HEF	80	7903	8016	8376	8399	48.5
				90	6462	6552	6890	6890	48.5
		10000LM	SEF	80	9808	10085	10362	10608	66.47
				90	8548	8732	8978	9439	66.47
			HEF	80	9777	9916	10362	10390	60.89
				90	7994	8106	8523	8523	60.89
		14000LM	SEF	80	14323	14727	15131	15491	94.78
				90	12482	12752	13111	13784	94.78
			HEF	80	14277	14480	15131	15172	85.96
				90	11674	11836	12447	12447	85.96
		18000LM	SEF	80	18458	18979	19500	19963	128.98
				90	16086	16433	16896	17764	128.98
			HEF	80	18399	18661	19500	19552	116.92
				90	15044	15254	16040	16040	116.92
		20000LM	SEF	80	20386	20962	21537	22048	146.83
				90	17766	18150	18661	19619	146.83
			HEF	80	20321	20610	21537	21595	131.6
				90	16616	16847	17716	17716	131.6

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CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage
					Color Temperature				
					3000K	3500K	4000K	5000K	
RDL	L24	1500LM	SEF	80	1359	1397	1436	1470	10.85
				90	1184	1210	1244	1308	10.85
			HEF	80	1355	1374	1436	1439	10.39
				90	1107	1123	1181	1181	10.39
		2000LM	SEF	80	1875	1928	1981	2028	14.48
				90	1634	1670	1717	1805	14.48
			HEF	80	1869	1896	1981	1987	13.46
				90	1528	1550	1630	1630	13.46
		2500LM	SEF	80	2374	2441	2508	2567	18.41
				90	2069	2113	2173	2284	18.41
			HEF	80	2366	2400	2508	2514	17.42
				90	1935	1962	2063	2063	17.42
		3500LM	SEF	80	3192	3282	3372	3452	25.83
				90	2782	2842	2922	3072	25.83
			HEF	80	3182	3227	3372	3381	25.04
				90	2602	2638	2774	2774	25.04
		4500LM	SEF	80	4574	4703	4832	4947	38.7
				90	3986	4072	4187	4402	38.7
			HEF	80	4560	4624	4832	4845	34.8
				90	3728	3780	3975	3975	34.8
		5000LM	SEF	80	4860	4997	5134	5256	41.48
				90	4235	4327	4448	4677	41.48
			HEF	80	4844	4913	5134	5148	38.11
				90	3961	4016	4223	4223	38.11
	L36	2250LM	SEF	80	2188	2250	2311	2366	16.36
				90	1907	1948	2003	2106	16.36
			HEF	80	2181	2212	2311	2318	15.47
				90	1783	1808	1901	1901	15.47
		3000LM	SEF	80	2843	2924	3004	3075	20.8
				90	2478	2531	2603	2736	20.8
			HEF	80	2834	2875	3004	3012	19.98
				90	2317	2350	2471	2471	19.98
		3750LM	SEF	80	3639	3742	3845	3936	26.47
				90	3171	3240	3331	3502	26.47
			HEF	80	3628	3679	3845	3855	25.09
				90	2966	3007	3162	3162	25.09
		5250LM	SEF	80	4895	5033	5171	5294	39.9
				90	4265	4357	4480	4710	39.9
			HEF	80	4879	4948	5171	5185	34.3
				90	3989	4045	4253	4253	34.3
		6750LM	SEF	80	6250	6426	6602	6759	54.85
				90	5446	5564	5721	6014	54.85
			HEF	80	6230	6318	6602	6620	47.97
				90	5094	5165	5431	5431	47.97
		7500LM	SEF	80	6846	7039	7232	7404	62.6
				90	5966	6095	6266	6588	62.6
			HEF	80	6824	6921	7232	7252	54.02
				90	5580	5657	5949	5949	54.02

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CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage
					Color Temperature				
					3000K	3500K	4000K	5000K	
RDL	L48	3000LM	SEF	80	2740	2817	2895	2963	20.32
				90	2388	2439	2508	2637	20.32
			HEF	80	2731	2770	2895	2902	19.01
				90	2233	2264	2381	2381	19.01
		4000LM	SEF	80	3661	3764	3868	3959	27.58
				90	3190	3259	3351	3523	27.58
			HEF	80	3649	3701	3868	3878	24.75
				90	2984	3025	3181	3181	24.75
		5000LM	SEF	80	4580	4710	4839	4954	34.8
				90	3992	4078	4193	4408	34.8
			HEF	80	4566	4631	4839	4852	31.77
				90	3733	3785	3980	3980	31.77
		7000LM	SEF	80	6635	6822	7009	7176	49.05
				90	5782	5907	6073	6385	49.05
			HEF	80	6614	6708	7009	7028	44.67
				90	5408	5483	5766	5766	44.67
		9000LM	SEF	80	8363	8599	8835	9045	63.99
				90	7288	7446	7655	8049	63.99
			HEF	80	8336	8455	8835	8859	58.58
				90	6816	6911	7268	7268	58.58
		10000LM	SEF	80	9347	9611	9874	10109	73.37
				90	8145	8321	8556	8995	73.37
			HEF	80	9317	9450	9874	9901	66.27
				90	7618	7724	8122	8122	66.27
	L96	6000LM	SEF	80	5393	5545	5697	5832	38.15
				90	4700	4801	4936	5190	38.15
			HEF	80	5375	5452	5697	5712	35.54
				90	4395	4457	4686	4686	35.54
		8000LM	SEF	80	7196	7399	7602	7782	52.32
				90	6271	6406	6587	6925	52.32
			HEF	80	7173	7275	7602	7622	48.5
				90	5865	5946	6253	6253	48.5
		10000LM	SEF	80	8902	9153	9404	9627	66.47
				90	7757	7925	8148	8567	66.47
			HEF	80	8873	8999	9404	9429	60.89
				90	7255	7356	7735	7735	60.89
		14000LM	SEF	80	12999	13366	13732	14058	94.78
				90	11328	11573	11899	12510	94.78
			HEF	80	12957	13142	13732	13769	85.96
				90	10594	10742	11296	11296	85.96
		18000LM	SEF	80	16751	17224	17697	18117	128.98
				90	14598	14913	15334	16121	128.98
			HEF	80	16698	16936	17697	17744	116.92
				90	13653	13843	14557	14557	116.92
		20000LM	SEF	80	18501	19023	19545	20009	146.83
				90	16123	16471	16935	17805	146.83
			HEF	80	18442	18705	19545	19598	131.6
				90	15079	15290	16078	16078	131.6

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CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage
					Color Temperature				
					3000K	3500K	4000K	5000K	
FDL	L24	1500LM	SEF	80	1320	1358	1395	1428	10.85
				90	1151	1175	1208	1271	10.85
			HEF	80	1316	1335	1395	1399	10.39
				90	1076	1091	1147	1147	10.39
		2000LM	SEF	80	1822	1874	1925	1971	14.48
				90	1588	1622	1668	1754	14.48
			HEF	80	1816	1842	1925	1930	13.46
				90	1485	1506	1583	1583	13.46
		2500LM	SEF	80	2306	2371	2436	2494	18.41
				90	2010	2053	2111	2219	18.41
			HEF	80	2299	2332	2436	2443	17.42
				90	1880	1906	2004	2004	17.42
		3500LM	SEF	80	3102	3189	3277	3354	25.83
				90	2703	2761	2839	2985	25.83
			HEF	80	3092	3136	3277	3285	25.04
				90	2528	2563	2695	2695	25.04
		4500LM	SEF	80	4444	4570	4695	4807	38.7
				90	3873	3957	4068	4277	38.7
			HEF	80	4430	4493	4695	4708	34.8
				90	3622	3673	3862	3862	34.8
		5000LM	SEF	80	4722	4855	4988	5107	41.48
				90	4115	4204	4322	4544	41.48
			HEF	80	4707	4774	4988	5002	38.11
				90	3848	3902	4103	4103	38.11
	L36	2250LM	SEF	80	2126	2186	2246	2299	16.36
				90	1852	1892	1946	2046	16.36
			HEF	80	2119	2149	2246	2252	15.47
				90	1732	1757	1847	1847	15.47
		3000LM	SEF	80	2762	2840	2918	2988	20.8
				90	2407	2459	2529	2659	20.8
			HEF	80	2754	2793	2918	2926	19.98
				90	2251	2283	2401	2401	19.98
		3750LM	SEF	80	3536	3636	3735	3824	26.47
				90	3081	3148	3237	3403	26.47
			HEF	80	3525	3575	3735	3745	25.09
				90	2882	2922	3073	3073	25.09
		5250LM	SEF	80	4755	4890	5024	5143	39.9
				90	4144	4234	4353	4577	39.9
			HEF	80	4740	4808	5024	5037	34.3
				90	3876	3930	4132	4132	34.3
		6750LM	SEF	80	6072	6243	6415	6567	54.85
				90	5292	5406	5558	5844	54.85
			HEF	80	6053	6139	6415	6432	47.97
				90	4949	5018	5276	5276	47.97
		7500LM	SEF	80	6651	6839	7027	7194	62.6
				90	5796	5922	6088	6401	62.6
			HEF	80	6630	6725	7027	7046	54.02
				90	5421	5497	5780	5780	54.02

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CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage
					Color Temperature				
					3000K	3500K	4000K	5000K	
FDL	L48	3000LM	SEF	80	2662	2737	2812	2879	20.32
				90	2320	2370	2437	2562	20.32
			HEF	80	2654	2691	2812	2820	19.01
				90	2170	2200	2313	2313	19.01
		4000LM	SEF	80	3557	3657	3758	3847	27.58
				90	3100	3167	3256.	3423	27.58
			HEF	80	3546	3596	3758	3768	24.75
				90	2899	2939	3091	3091	24.75
		5000LM	SEF	80	4450	4576	4701	4813	34.8
				90	3878	3962	4073	4283	34.8
			HEF	80	4436	4499	4701	4714	31.77
				90	3627	3678	3867	3867	31.77
		7000LM	SEF	80	6446	6628	6810	6972	49.05
				90	5618	5739	5901	6204	49.05
			HEF	80	6426	6517	6810	6829	44.67
				90	5254	5327	5602	5602	44.67
		9000LM	SEF	80	8126	8355	8584	8788	63.99
				90	7081	7234	7438	7820	63.99
			HEF	80	8100	8215	8584	8607	58.58
				90	6623	6715	7061	7061	58.58
		10000LM	SEF	80	9081	9338	9594	9822	73.37
				90	7914	8085	8313	8740	73.37
			HEF	80	9052	9181	9594	9620	66.27
				90	7402	7505	7892	7892	66.27
	L96	6000LM	SEF	80	5240	5387	5535	5667	38.15
				90	4566	4665	4796	5042	38.15
			HEF	80	5223	5297	5535	5550	35.54
				90	4270	4330	4553	4553	35.54
		8000LM	SEF	80	6991	7189	7386	7561	52.32
				90	6093	6224	6400	6728	52.32
			HEF	80	6969	7068	7386	7406	48.5
				90	5698	5778	6075	6075	48.5
		10000LM	SEF	80	8649	8893	9137	9354	66.47
				90	7537	7700	7917	8323	66.47
			HEF	80	8621	8744	9137	9161	60.89
				90	7049	7147	7516	7516	60.89
		14000LM	SEF	80	12630	12986	13342	13659	94.78
				90	11006	11244	11561	12154	94.78
			HEF	80	12589	12768	13342	13378	85.96
				90	10293	10437	10975	10975	85.96
		18000LM	SEF	80	16276	16735	17194	17602	128.98
				90	14184	14490	14898	15663	128.98
			HEF	80	16223	16454	17194	17240	116.92
				90	13265	13450	14143	14143	116.92
		20000LM	SEF	80	17976	18483	18990	19441	146.83
				90	15665	16004	16454	17300	146.83
			HEF	80	17918	18173	18990	19041	131.6
				90	14651	14855	15621	15621	131.6

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CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage
					Color Temperature				
					3000K	3500K	4000K	5000K	
WDL	L24	1500LM	SEF	80	1377	1415	1454	1489	10.85
				90	1200	1226	1260	1325	10.85
			HEF	80	1372	1392	1454	1458	10.39
				90	1122	1138	1196	1196	10.39
		2000LM	SEF	80	1900	1953	2007	2055	14.48
				90	1656	1691	1739	1828	14.48
			HEF	80	1894	1921	2007	2012	13.46
				90	1548	1570	1651	1651	13.46
		2500LM	SEF	80	2405	2472	2540	2601	18.41
				90	2095	2141	2201	2314	18.41
			HEF	80	2397	2431	2540	2547	17.42
				90	1960	1987	2090	2090	17.42
		3500LM	SEF	80	3234	3325	3416	3497	25.83
				90	2818	2879	2960	3112	25.83
			HEF	80	3223	3269	3416	3426	25.04
				90	2636	2672	2810	2810	25.04
		4500LM	SEF	80	4634	4765	4895	5012	38.7
				90	4038	4125	4242	4459	38.7
			HEF	80	4619	4685	4895	4908	34.8
				90	3777	3829	4027	4027	34.8
		5000LM	SEF	80	4923	5062	5201	5324	41.48
				90	4290	4383	4506	4738	41.48
			HEF	80	4907	4977	5201	5215	38.11
				90	4012	4068	4278	4278	38.11
	L36	2250LM	SEF	80	2216	2279	2341	2397	16.36
				90	1931	1973	2029	2133	16.36
			HEF	80	2209	2241	2341	2348	15.47
				90	1806	1832	1926	1926	15.47
		3000LM	SEF	80	2880	2962	3043	3115	20.8
				90	2510	2564	2636	2772	20.8
			HEF	80	2871	2912	3043	3051	19.98
				90	2347	2380	2503	2503	19.98
		3750LM	SEF	80	3687	3791	3895	3987	26.47
				90	3213	3282	3375	3548	26.47
			HEF	80	3675	3727	3895	3905	25.09
				90	3005	3047	3204	3204	25.09
		5250LM	SEF	80	4958	5098	5238	5362	39.9
				90	4321	4414	4539	4772	39.9
			HEF	80	4942	5013	5238	5252	34.3
				90	4041	4097	4309	4309	34.3
		6750LM	SEF	80	6331	6510	6688	6847	54.85
				90	5517	5636	5795	6093	54.85
			HEF	80	6311	6401	6688	6706	47.97
				90	5160	5232	5502	5502	47.97
		7500LM	SEF	80	6935	7131	7326	7500	62.6
				90	6044	6174	6348	6674	62.6
			HEF	80	6913	7011	7326	7346	54.02
				90	5652	5731	6027	6027	54.02

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CLX OPERATIONAL DATA (continued)

	Length	Nominal lumen package	Performance package	CRI	Delivered Lumens				Wattage
					Color Temperature				
					3000K	3500K	4000K	5000K	
WDL	L48	3000LM	SEF	80	2776	2854	2932	3002	20.32
				90	2419	2471	2541	2671	20.32
			HEF	80	2767	2806	2932	2940	19.01
				90	2262	2294	2412	2412	19.01
		4000LM	SEF	80	3709	3813	3918	4011	27.58
				90	3232	3302	3395	3569	27.58
			HEF	80	3697	3749	3918	3929	24.75
				90	3023	3065	3223	3223	24.75
		5000LM	SEF	80	4640	4771	4902	5018	34.8
				90	4044	4131	4247	4465	34.8
			HEF	80	4625	4691	4902	4915	31.77
				90	3782	3834	4032	4032	31.77
		7000LM	SEF	80	6721	6911	7101	7269	49.05
				90	5857	5984	6152	6469	49.05
			HEF	80	6700	6795	7101	7120	44.67
				90	5478	5554	5841	5841	44.67
		9000LM	SEF	80	8472	8711	8950	9163	63.99
				90	7383	7543	7755	8154	63.99
			HEF	80	8445	8565	8950	8974	58.58
				90	6905	7001	7362	7362	58.58
		10000LM	SEF	80	9469	9736	10003	10240	73.37
				90	8252	8430	8667	9112	73.37
			HEF	80	9438	9573	10003	10030	66.27
				90	7717	7825	8228	8228	66.27
	L96	6000LM	SEF	80	5463	5617	5771	5908	38.15
				90	4761	4864	5001	5258	38.15
			HEF	80	5445	5523	5771	5787	35.54
				90	4452	4515	4747	4747	35.54
		8000LM	SEF	80	7289	7495	7701	7884	52.32
				90	6353	6490	6672	7015	52.32
			HEF	80	7266	7370	7701	7722	48.5
				90	5941	6024	6334	6334	48.5
		10000LM	SEF	80	9017	9272	9526	9752	66.47
				90	7858	8028	8254	8678	66.47
			HEF	80	8988	9117	9526	9552	60.89
				90	7349	7452	7836	7836	60.89
		14000LM	SEF	80	13168	13540	13911	14241	94.78
				90	11476	11723	12054	12673	94.78
			HEF	80	13126	13313	13911	13949	85.96
				90	10732	10882	11443	11443	85.96
		18000LM	SEF	80	16970	17448	17927	18353	128.98
				90	14788	15108	15533	16331	128.98
			HEF	80	16915	17156	17927	17975	116.92
				90	13831	14024	14746	14746	116.92
		20000LM	SEF	80	18742	19271	19800	20270	146.83
				90	16333	16686	17156	18037	146.83
			HEF	80	18682	18948	19800	19853	131.6
				90	15276	15489	16287	16287	131.6

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RRL - RELOC®-Ready Luminaire

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

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

Example: RRLA

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

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

OCS

OCU

OD

DC

PT

Notes

1 C, ABE, and C12S options are not used with Quick-Flex QFC, QSFC, QPT, and QD.

PRODUCT 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. 1, 2, 3 and 4-lamp fixtures. 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.

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	
			Circuits to which ballast is connected		Emergency circuit connected					
PLR	(blank)	Not required for 22	(blank)	Not required for 22	(blank)	No emergency circuit	LV	Low-voltage dimming	G	Ground
PLR22	1	Black	A	Black wire	ELA	Emergency circuit wired to black wire				
	2	Black and red	B	Red wire	ELB	Emergency circuit 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 (PLR 22)
- Multiple circuit with night-lights located along row as desired

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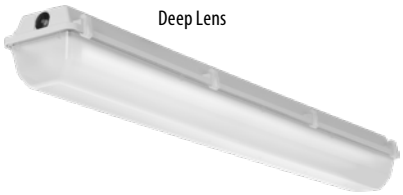
Catalog Number	
Notes	
Type	A2E

Low-Profile Enclosed and Gasketed Industrial

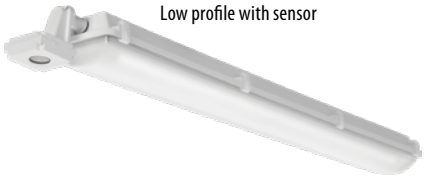
FEM LED

SURFACE/ SUSPENDED/WALL MOUNT

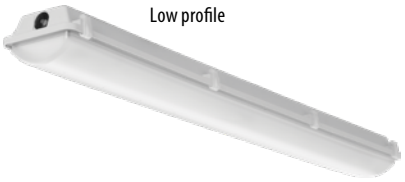
Deep Lens



Low profile with sensor



Low profile



FEATURES & SPECIFICATIONS

INTENDED USE — A general purpose and energy-efficient surface-mounted or suspended LED fixture, suitable for wet, damp and/or cold locations. For vapor-tight demanding environments where moisture or dust is a concern and where relatively low fixture mounting heights and wide fixture spacing are common. Not for use or installation in direct outdoor sunlight. Must be installed under canopy or covered ceiling. For direct sunlight installations, please refer to the FEX product family. Typical applications include industrial facilities, parking garages, retail malls, multi-purpose rooms, garden centers, and food processing. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable use.**

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

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

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

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

ELECTRICAL — Utilizes high-efficiency LEDs mounted to core circuit boards. High-efficiency drivers operate 120-277 (MVOLT) and 347-480 (HVOLT) offered with 0-10 volt dimming. Standard Luminaire Surge Protection Level: 6kV/3kA Surge Rated per ANSI C82.77-5-2015.

INSTALLATION — Fixture can be surface, suspended or wall mounted. Pre-punched stainless steel mounting brackets are included (two per luminaire) for easy field-attachment of bolts, screws and other mounting hardware.

LISTINGS — CSA Certified to UL and C-UL Standards. Suitable for wet location. IP65,IP66, IP67 rated and certified to meet NSF Splash Zone 2. NEMA 4X rated. Sensors maintain IP65 and IP66 only. See chart on page 5 for Ambient Temperatures.
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 to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:
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
FEM L48 4000LM LPAFL MD MVOLT GZ10 40K 80CRI	**FEM L48 4L MVOLT**
FEM L48 4000LM LPAFL MD MVOLT GZ10 50K 80CRI	**FEM L48 4L MVOLT 5K**

A+ Capable Luminaire

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

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

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

FEM LED Low-Profile Enclosed and Gasketed

A+ Capable options indicated by this color background.

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

Example: FEM L48 4000LM IMAFL WD MVOLT GZ10 40K 80CRI

Series	Length	Nominal Lumens	Diffuser	Distribution	Voltage	Driver	Color temperature	CRI
FEM	L24 24" ‡	2000LM 2,000 lumens	IMAFL Acrylic, lineal ribbed frosted lens	MD Medium	MVOLT MVOLT	GZ10 0 - 10V dimming	30K 3000K	80CRI 80 CRI
		3000LM 3,000 lumens	IMACD Acrylic, clear deep lens	WD Wide	HVOLT 347-480 ‡		35K 3500K	90CRI 90 CRI
		4000LM 4,000 lumens	IMAFD Acrylic, deep frosted lens	PGD Parking garage	120 120V		40K 4000K	
		6000LM 6,000 lumens	LPAFL Acrylic, low profile frosted lens		277 277V		50K 5000K	
			LPACL Acrylic, low profile clear lens		347 347V			
	L48 48" ‡	3000LM 3,000 lumens	LPPCL Polycarbonate, low profile clear lens		480 480V			
		4000LM 4,000 lumens	LPPFL Polycarbonate, low profile frosted lens					
		6000LM 6,000 lumens						
		8000LM 8,000 lumens						
		10000LM 10,000 lumens						
		12000LM 12,000 lumens						
	L96 96" ‡	9000LM 9,000 lumens						
		12000LM 12,000 lumens						
		15000LM 15,000 lumens						
		18000LM 18,000 lumens						
		20000LM 20,000 lumens						
		24000LM 24,000 lumens						

Options

E10WMCP	EM Self-diagnostics battery pack, MVOLT, 10W, Constant Power Certified in the California Title 20 Modernized Appliance Efficiency Database (MAEDBS) ‡
BE6WCP	Cold Weather EM battery pack, 120/277V, 6W, Constant Power Certified in the California Title 20 Modernized Appliance Efficiency Database (MAEDBS) ‡
BGTD	Generator transfer device
SPD	Surge protection device, additional 10kV/6kA
WLF	Wet location fitting (two outboard, top (L24 - 20 inches off-center, L48 - 48 inches off-center, L96 - 95.7 inches off-center) ‡
WLFEND	Wet location fitting (one end)
WLFEND2	Wet location fitting (both ends) ‡
WLFPMP	Wet location pendant monopoint ‡
ANGBKT	Angle bracket shipped with fixture
CPSB16YWLBH	6' Brad Harrison 16/3 cord and straight blade plug set ‡
CPSB16YWL12FTBH	12' Brad Harrison 16/3 cord and straight blade plug set ‡
CRSB16YWLBH	Brad Harrison receptacle ‡
CNP16WWL	6' white cord, 16/3, no plug, wet location ‡
CNP16WWL12FT	12' white cord, 16/3, no plug, wet location ‡
CNP164CWWL	6' white cord, 16/4, no plug, wet location (for use when unswitched circuit is required for battery pack)
TRS	Tamper Resistant Torx® T10 screws
DPMB	Dual pendant mounting bracket
STSL	Stainless steel latches

Individual Controls:

SBOR10	Low mount 360° integral motion sensor, wet location, On/Off operation (formerly MSI10NWL)
SBOR10 HL 3V	Low mount 360° integral motion sensor, wet location, High/Low operation (bi-level) (formerly MSI102L3VWL)
SBOR10 P	Low mount 360° integral motion sensor, wet location, On/Off operation for motion sensing, override Off due to daylight (formerly MSI10NWL DSCNWL)

Xpoint Wireless:

XPA SBOR10	Xpoint wireless integral motion sensor, On/Off operation for motion sensing, override Off due to daylight (formerly MSI10XAWL DSCXAWL) ‡
XAD	XPoint™ wireless controller, 0-10V dimming ‡

nLight Air:

NLTAIR2 RSBOR10	nLight AIR generation 2 enabled 306 low mount motion sensor
NLTAIR2 RIO	nLight (wireless) gen 2 dimming & switching module

NOTE: ‡ indicates option chosen has ordering restrictions. Please reference ordering restrictions chart, page 3. Options are sorted alphanumerically.

See Accessories and ordering restrictions on next page.

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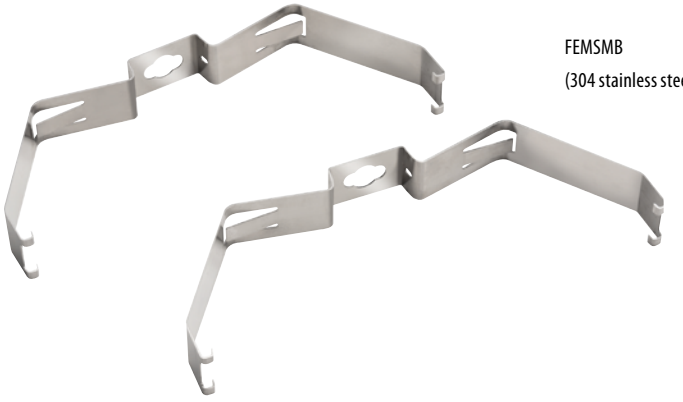
‡ Option Value Ordering Restrictions	
Option value	**Restriction**
L24	Not available with BE6WCP.
L48	Not available with WLFPMP.
L96	Not available with WLFPMP
HVOLT	When ordered with L24 available with 6000LM only. When ordered with L48 not available with 3000LM or 4000LM. Not available with XAD or XPA SBOR10.
BE6WCP	Not available with L24 length. Order with CNP164CWWL when unswitched hot is required for battery. Not available with 347V,480V,HVOLT.
E10WMCP	Order with CNP164CWWL when unswitched hot is required for battery. Not available with 347V,480V,HVOLT.
WLF	If cord is ordered, cord will exit from the end of the fixture.
WLFEND	Available with cord or sensor option. Choose only one.
WLFEND2	Not available with sensor or cord options.
WLFPMP	Available only with L24.
CNP16WWL	Not available with BE6WCP or E10WMCP.
CNP16WWL12FT	Not available with BE6WCP or E10WMCP.
CPSB16YWLBH	Not available with BE6WCP or E10WMCP.
CPSB16YWL12FTBH	Not available with BE6WCP or E10WMCP.
CRSB16YWLBH	Not available with BE6WCP or E10WMCP.
XPA SBOR6	Not available with HVOLT.
XAD	Not available with HVOLT.

Accessories: *Order as separate catalog number.*	
MHCH 36	Jack chain 36" (pair)
MHHK120	10' single leg air craft cable (ships as pair)
MHHK120SS	10' single leg air craft cable, stainless steel (ships as pair)
RK1 T10BIT W/PIN U	Hex-base driver bit, Torx TX10, for tamper resistant screws with center reject pin
FEMDPMB	Dual pendant mounting bracket (ships as a pair)
FEMANGBKT	Angle bracket (ships as pair)
FEMSMB	Surface mount bracket (ships as pair)

MOUNTING OPTIONS



FEMSMB

(304 stainless steel)

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OPERATIONAL DATA (80 CRI*, MD**, MVOLT***)

Length	Package	Input Wattage	CCT	Frosted Lens' Lumens (LPW)				Clear Lens' Lumens (LPW)		
				IMAFL	IMAFD	LPAFL	LPPFL	IMACD	LPACL	LPPCL
L24	2000LM	13.4	30K	1962 (147)	2083 (156)	2076 (155)	1861 (139)	2112 (158)	2105 (158)	1890 (142)
			35K	2002 (150)	2126 (159)	2118 (159)	1899 (142)	2155 (161)	2147 (161)	1929 (144)
			40K	2099 (157)	2228 (167)	2220 (166)	1991 (149)	2259 (169)	2251 (169)	2022 (151)
			50K	2122 (159)	2252 (169)	2244 (168)	2013 (151)	2284 (171)	2276 (170)	2044 (153)
	3000LM	19.9	30K	2869 (144)	3046 (153)	3035 (153)	2721 (137)	3088 (155)	3077 (155)	2764 (139)
			35K	2927 (147)	3108 (156)	3096 (156)	2777 (140)	3151 (158)	3139 (158)	2820 (142)
			40K	3069 (154)	3258 (164)	3246 (163)	2911 (146)	3303 (166)	3291 (166)	2956 (149)
			50K	3102 (156)	3293 (166)	3281 (165)	2942 (148)	3339 (168)	3327 (167)	2988 (150)
	4000LM	26.0	30K	3676 (142)	3903 (150)	3889 (150)	3487 (134)	3957 (152)	3943 (152)	3541 (136)
			35K	3751 (145)	3982 (153)	3968 (153)	3558 (137)	4037 (156)	4023 (155)	3613 (139)
			40K	3932 (152)	4174 (161)	4159 (160)	3730 (144)	4232 (163)	4217 (162)	3788 (146)
			50K	3975 (153)	4219 (163)	4204 (162)	3770 (145)	4278 (165)	4263 (164)	3829 (148)
	6000LM	39.2	30K	5287 (135)	5613 (143)	5593 (143)	5015 (128)	5691 (145)	5671 (145)	5093 (130)
			35K	5395 (138)	5727 (146)	5707 (145)	5117 (130)	5806 (148)	5786 (147)	5196 (132)
			40K	5655 (144)	6004 (153)	5982 (153)	5364 (137)	6087 (155)	6065 (155)	5447 (139)
			50K	5717 (146)	6069 (155)	6047 (154)	5422 (138)	6153 (157)	6131 (156)	5506 (140)
L48	3000LM	18.0	30K	2689 (149)	2855 (158)	2844 (158)	2551 (141)	2894 (160)	2884 (160)	2590 (144)
			35K	2743 (152)	2912 (161)	2902 (161)	2602 (144)	2953 (164)	2942 (163)	2643 (146)
			40K	2876 (159)	3053 (169)	3042 (169)	2728 (151)	3095 (172)	3084 (171)	2770 (154)
			50K	2907 (161)	3086 (171)	3075 (170)	2758 (153)	3129 (173)	3118 (173)	2800 (155)
	4000LM	23.8	30K	3543 (149)	3762 (158)	3748 (157)	3361 (141)	3814 (160)	3800 (160)	3413 (143)
			35K	3615 (152)	3838 (161)	3824 (161)	3429 (144)	3891 (163)	3877 (163)	3482 (146)
			40K	3790 (159)	4023 (169)	4009 (168)	3595 (151)	4079 (171)	4064 (171)	3650 (153)
			50K	3831 (161)	4067 (171)	4052 (170)	3634 (153)	4123 (173)	4109 (173)	3690 (155)
	6000LM	37.8	30K	5284 (140)	5609 (149)	5589 (148)	5012 (133)	5687 (151)	5667 (150)	5090 (135)
			35K	5391 (143)	5723 (152)	5703 (151)	5114 (135)	5802 (154)	5782 (153)	5193 (138)
			40K	5651 (150)	6000 (159)	5978 (158)	5361 (142)	6083 (161)	6061 (161)	5444 (144)
			50K	5713 (151)	6065 (161)	6043 (160)	5419 (144)	6149 (163)	6127 (162)	5503 (146)
	8000LM	50.5	30K	6952 (138)	7380 (146)	7354 (146)	6594 (131)	7482 (148)	7456 (148)	6696 (133)
			35K	7093 (141)	7530 (149)	7503 (149)	6728 (133)	7634 (151)	7607 (151)	6832 (135)
			40K	7435 (147)	7894 (156)	7865 (156)	7053 (140)	8003 (159)	7975 (158)	7162 (142)
			50K	7516 (149)	7979 (158)	7950 (158)	7129 (141)	8090 (160)	8061 (160)	7240 (144)
	10000LM	62.0	30K	8646 (140)	9179 (148)	9146 (148)	8201 (132)	9306 (150)	9273 (150)	8328 (134)
			35K	8822 (142)	9365 (151)	9332 (151)	8368 (135)	9495 (153)	9461 (153)	8497 (137)
			40K	9248 (149)	9817 (158)	9782 (158)	8772 (142)	9953 (161)	9918 (160)	8908 (144)
			50K	9348 (151)	9924 (160)	9888 (160)	8867 (143)	10061 (162)	10026 (162)	9004 (145)
	12000LM	75.0	30K	10406 (139)	11047 (147)	11007 (147)	9871 (132)	11200 (149)	11160 (149)	10024 (134)
			35K	10617 (141)	11271 (150)	11231 (150)	10071 (134)	11427 (152)	11387 (152)	10227 (136)
			40K	11130 (148)	11816 (157)	11773 (157)	10557 (141)	11979 (160)	11937 (159)	10721 (143)
			50K	11251 (150)	11944 (159)	11901 (159)	10672 (142)	12109 (161)	12066 (161)	10837 (144)
L96	9000LM	53.4	30K	7962 (149)	8452 (158)	8422 (158)	7552 (141)	8570 (160)	8539 (160)	7669 (144)
			35K	8124 (152)	8624 (161)	8593 (161)	7706 (144)	8743 (164)	8713 (163)	7825 (146)
			40K	8516 (159)	9040 (169)	9008 (169)	8078 (151)	9166 (172)	9133 (171)	8203 (154)
			50K	8608 (161)	9138 (171)	9106 (170)	8165 (153)	9265 (173)	9232 (173)	8292 (155)
	12000LM	75.5	30K	10570 (140)	11221 (149)	11181 (148)	10026 (133)	11377 (151)	11337 (150)	10182 (135)
			35K	10785 (143)	11449 (152)	11408 (151)	10230 (135)	11608 (154)	11567 (153)	10388 (138)
			40K	11306 (150)	12002 (159)	11959 (158)	10724 (142)	12168 (161)	12125 (161)	10890 (144)
			50K	11428 (151)	12132 (161)	12089 (160)	10840 (144)	12300 (163)	12257 (162)	11008 (146)
	15000LM	94.3	30K	13399 (142)	14225 (151)	14174 (150)	12710 (135)	14422 (153)	14371 (152)	12907 (137)
			35K	13671 (145)	14513 (154)	14461 (153)	12968 (138)	14714 (156)	14662 (156)	13169 (140)
			40K	14331 (152)	15214 (161)	15160 (161)	13594 (144)	15425 (164)	15370 (163)	13805 (146)
			50K	14487 (154)	15379 (163)	15324 (163)	13741 (146)	15592 (165)	15537 (165)	13954 (148)
	18000LM	103.4	30K	15901 (154)	16881 (163)	16820 (163)	15083 (146)	17114 (165)	17054 (165)	15317 (148)
			35K	16224 (157)	17223 (167)	17161 (166)	15389 (149)	17462 (169)	17400 (168)	15627 (151)
			40K	17007 (164)	18055 (175)	17990 (174)	16132 (156)	18305 (177)	18240 (176)	16382 (158)
			50K	17192 (166)	18251 (176)	18185 (176)	16307 (158)	18503 (179)	18438 (178)	16560 (160)
	20000LM	125.5	30K	17549 (140)	18630 (148)	18564 (148)	16646 (133)	18888 (150)	18822 (150)	16904 (135)
			35K	17906 (143)	19008 (151)	18940 (151)	16984 (135)	19272 (154)	19204 (153)	17247 (137)
			40K	18770 (150)	19927 (159)	19855 (158)	17804 (142)	20202 (161)	20131 (160)	18080 (144)
			50K	18974 (151)	20143 (160)	20070 (160)	17997 (143)	20421 (163)	20349 (162)	18276 (146)
	24000LM	149.5	30K	21142 (141)	22445 (150)	22364 (150)	20055 (134)	22756 (152)	22675 (152)	20365 (136)
			35K	21571 (144)	22900 (153)	22818 (153)	20461 (137)	23217 (155)	23135 (155)	20779 (139)
			40K	22613 (151)	24006 (161)	23920 (160)	21450 (143)	24339 (163)	24253 (162)	21782 (146)
			50K	22858 (153)	24266 (162)	24179 (162)	21682 (145)	24602 (165)	24516 (164)	22018 (147)

* For 90CRI, reduce lumen output by 17.1%
** For WD reduce output by 4.7%, PGD reduce output by 5.4%
*** For HVOLT use scale factor in HVOLT SCALE FACTOR TABLE

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CSA LISTED AMBIENT RATING*

		Standard** (surface)"	Standard** (suspended)"	E10WMCP (surface)	E10WMCP (suspended)	BE6WCP (surface)	BE6WCP (suspended)	XAD (surface)	XAD (suspended)
L24	2000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
	3000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
	4000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
	6000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
L48	3000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
	4000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
	6000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
	8000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
	10000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
	12000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
L96	9000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
	12000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
	15000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
	18000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
	20000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C
	24000LM	35°C	50°C	5°C - 25°C	5°C - 35°C	-20°C - 25°C	-20°C - 35°C	30°C	45°C

*Minimum Ambient is -30°C unless noted,
**All options not specifically listed in this table are considered standard

HVOLT SCALE FACTOR

	Factor
2000LM	0.814
3000LM	0.814
4000LM	0.814
6000LM	0.835
8000LM	0.845
9000LM	0.850
10000LM	0.850
12000LM	0.845
15000LM	0.860
18000LM	0.880
20000LM	0.845
24000LM	0.865

CONFIGURATION WEIGHTS

	Standard	w/ Sensor	w/ Battery
L24	8	9	9
L48	11	12	12
L96	23	24	24

NUMBER OF BOARDS AND DRIVERS

Lumen package	Fixture length	Number of boards	Number of drivers
2000LM	L24	1	1
3000LM		1	1
4000LM		1	1
6000LM		1	1
3000LM	L48	2	1
4000LM		2	1
6000LM		2	1
8000LM		2	1
10000LM		2	1
12000LM		2	1
9000LM	L96	4	1
12000LM		4	2
15000LM		4	2
18000LM		4	2
20000LM		4	2
24000LM		4	2

INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 Phone: 800-705-SERV (7378) www.lithonia.com

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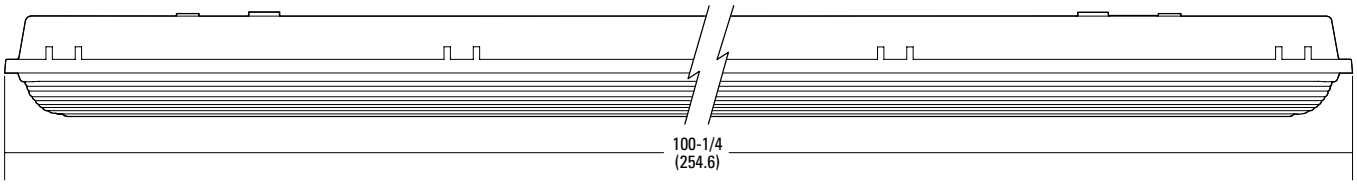
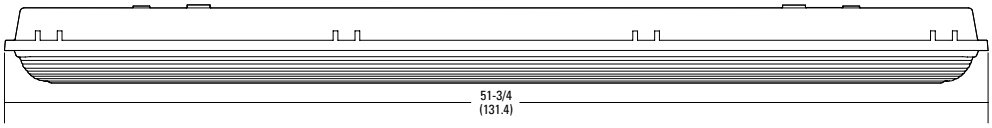
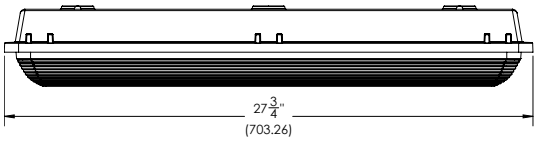
DIMENSIONS

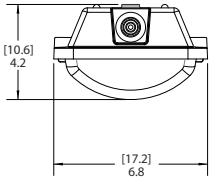
Specifications subject to change without notice.
All dimensions are inches (centimeters) unless otherwise indicated.

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

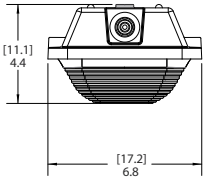




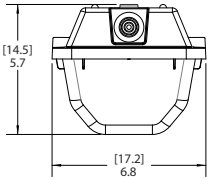




Diffuser Type:
LPAFL
LPACL
LPPFL
LPPCL



Diffuser Type:
IMAFL



Diffuser Type:
IMAFD
IMACD

PHOTOMETRICS

See www.lithonia.com for photometry reports.

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LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	B1

FEATURES & SPECIFICATIONS

INTENDED USE — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T8 lengths. Ideal for use in commercial, retail, office, 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 — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install six-point row aligner included for continuous row mounting.

Finish: Paint options include high-gloss, baked white enamel (WH), galvanized (GALV), matte black (MB) and smoke gray (SKGY). After fabrication, five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

OPTICS — Replaceable diffuse lens eliminates pixelation and offers ingress protection from debris.

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 below). Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), **multi-volt input and 0-10V dimming standard**. This fixture is designed to withstand a maximum line surge of 1.5KV AT 0.75KA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

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

Lumen output up to 1,500 lumens per foot. Luminaire should be installed in applications where ambient temperatures do not exceed 86 °F (30 °C).

INSTALLATION — Fixture may be surface mounted (with or without ZSPRG hanger), pendant or stem mounted with appropriate mounting options. Six-point aligner locks in place for easy continuous row mounting.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -4°F (-20°C) and 86°F (30°C).

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 for additional information.

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

Z SERIES

Architectural LED Striplight

ZL1F

24", 48" and 96" Lengths

A+ CAPABLE · DIMMABLE LED · Buy American

A+ Capable Luminaire

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

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

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

ZL1F LED Striplight

A+ Capable options indicated by this color background.

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

Example: ZL1F L48 3000LM MDD MVOLT 40K 80CRI WH

Series		Length		Reflectors[1]		Nominal lumens[2]		Diffuser		Voltage		Color temperature	
ZL1F	LED striplight	L24	24"	(blank)	Less reflector	1500LM	1,500 lumens	MDD	Medium diffuse	MVOLT	120-277V	30K	3000 K
				SMR	Symmetric	2250 LM	2,250 lumens			120	120V	35K	3500 K
						3000 LM	3000 lumens			208	208V	40K	4000 K
		L48	48"	(blank)	Less reflector	3000LM	3,000 lumens			240	240V	50K	5000 K
				ASR	Asymmetric	4500 LM	4500 lumens			277	277V		
				SMR	Symmetric	6000 LM	6000 lumens			347	347V [3]		
TZL1F	LED striplight	L96	96"	(blank)	Less reflector	6000LM	6,000 lumens			480	480V [3]		
				SMR	Symmetric	9000LM	9,000 lumens						
						12000LM	12,000 lumens						

Color rendering index		Options			Paint finish	
80CRI	80 CRI	PLR	Plug-in wiring[4,5]	Cord sets: [9]	WH	White
90CRI	90 CRI	PLR1LVG	Plug-in wiring-low voltage[4,5]	CS1W Straight plug, 120V	GALV	Galvanized
		E7W	Emergency battery pack, 7W CA Title 20 Noncompliant[6,7]	CS3W Twist-lock, 120V	MB	Matte black
		2E7W	Two Emergency battery packs, 7W CA Title 20 Noncompliant[6,7,8]	CS7W Straight plug, 277V	SKGY	Smoke gray
		E10WLCP	Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS[6,7]	CS11W Twist-lock, 277V		
		2E10WLCP	Two Emergency battery packs, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS[6,7,8]	CS25W Twist-lock, 347V		
		E15WLCP	Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS[6,7,8]	CS97W Twist-lock, 480V		
		OUTEND	Cord set to exit endplate of fixture	CS93W 600V SEOOW white cord, no plug (no voltage required)		
		BAA	Buy America(n) Act Compliant			

Accessories: *Order as separate catalog number.*

HC36 M12	Hanger chain, 36" (1 pair)
ZACVH M100	Adjustable 10' aircraft cable with Y hanger (1 pair)
ZLANGBKT	Luma-Tilt™ angle bracket for shelf or ledge mounting only
ZSPRG J2	Tong and T-grid hanger, for 15/16" T-grid (Order quantity required in multiples of 2)
SQ_	Swivel stem hanger (specify length in 2" increments up to 48")
LSXR	Sensor Switch® LSXR occupancy sensor[4]
NPP16D	nLight® switching/dimming module

Reflectors: *Order as separate catalog number.*

ZLR L24 SYM UPL WH	24" symmetric reflector with uplight, white finish
ZLR L24 SYM WH	24" symmetric reflector, white finish
ZLR L46 SYM UPL WH	46" symmetric reflector with uplight, white finish
ZLR L46 SYM WH	46" symmetric reflector, white finish
ZLR L48 ASY WH	48" asymmetric reflector, white finish
ZLR L48 SYM UPL WH	48" symmetric reflector with uplight, white finish
ZLR L48 SYM WH	48" symmetric reflector, white finish
ZLR L92 SYM UPL WH	92" symmetric reflector with uplight, white finish
ZLR L92 SYM WH	92" symmetric reflector, white finish
ZLR L96 SYM UPL WH	96" symmetric reflector with uplight, white finish
ZLR L96 SYM WH	96" symmetric reflector, white finish
UNIVERSAL REFL ALIGNER	Universal reflector aligners, quantity 1

Notes

1 Optional. Reflectors ship separately.
2 See Operational Data on page 3 for actual lumens.
3 Not available with L24, 24" fixture. 347V and 480V utilize a step-down transformer.
4 See ordering information on page 5. When choosing sensor options and and PLR configuration, contact factory representative.
5 Not available with cordsets.
6 Not available with L24, 24" fixture. See spec sheet PS1055LCP, PS155LCP and PS750L for more information.
7 Must specify voltage. 120, 208, 240, or 277V.
8 Only available with the 8' (96") fixtures.
9 Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W).

OPERATIONAL DATA

	Nominal lumen package	Length (inches)	Delivered Lumens 3000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 3500 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 4000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 5000 K CCT @ 77°F (25°C) ambient temperature		Wattage @ 120V/277V	Comparable Light Source
			80 CRI	90 CRI	80 CRI	90 CRI	80 CRI	90 CRI	80 CRI	90 CRI		
Lensed	1500LM	24	1281	1045	1310	1081	1330	1102	1379	1126	15	1-lamp 17W T8
	2250LM	24	1822	1486	1863	1538	1892	1567	1961	1602	19	1-lamp 17W T8
	3000LM	24	2623	2139	2682	2214	2724	2256	2824	2306	30	1-lamp 17W T8
	3000LM	48	2629	2144	2688	2219	2730	2261	2830	2311	30	1-lamp 17W T8
	4500LM	48	3714	3028	3796	3134	3856	3193	3997	3264	39	1-lamp 32W T8, 1-lamp 54W T5HO, 50W HID
	6000LM	48	4976	4057	5087	4200	5166	4279	5357	4374	56	1-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
	6000LM	96	5143	4193	5257	4340	5339	4422	5536	4520	56	2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID
	9000LM	96	7226	5891	7387	6098	7502	6214	7778	6352	77	3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID
	12000LM	96	10000	8153	10223	8439	10382	8599	10764	8790	114	4-lamp 32W T8, 2-lamp 54W T5HO, 100W HID

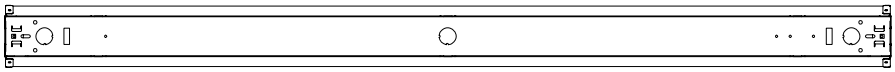
DIMENSIONS

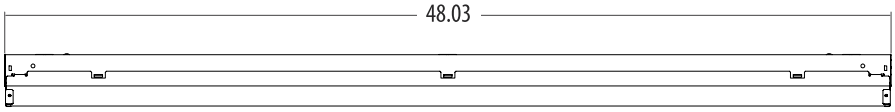
All dimensions are shown in inches (centimeters) unless otherwise noted.

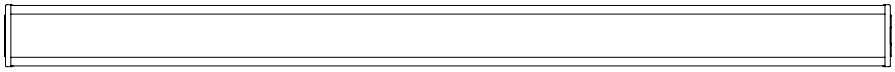
Specifications subject to change without notice.

PALLET DIMENSIONS

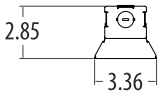
Length	Approximate weight	Fixtures per pallet	Approximate pallet dimensions (L x W x H)
L24	9 lbs	96	46" X 51" X 32 5/16"
L48	18 lbs.	48	46" X 51" X 32 5/16"
L96	35 lbs.	48	46" X 98 1/2" X 32 1/16"





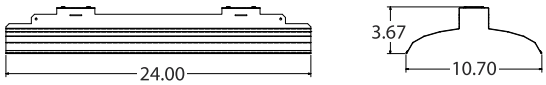


Knockout hole is .86in in diameter.

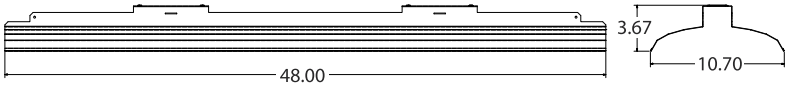


REFLECTORS (Optional)

L24 Reflector



L48 Reflector



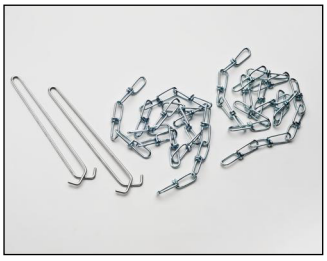
L96 Reflector

PHOTOMETRICS

Please see www.lithonia.com

OPTIONS AND ACCESSORIES

The Z Series fixture offers numerous options for almost every electrical and optical component, including a long list of field-installable accessories.

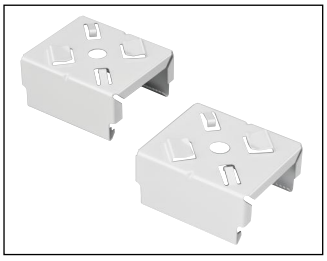


HANGER CHAIN

36" chain with Y hanger.

Order as:

HC36

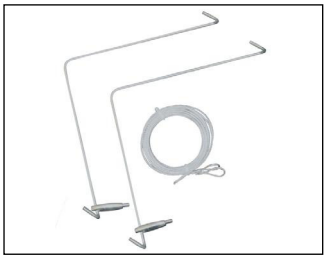


Z SPRING HANGER

Snap 'n' lock design requires no fasteners and can be used on T-grid ceiling or universal mounting systems.

Order as:

ZSPRG



ZACVH HANGER

10' Aircraft cable with Y hanger.

Order as:

ZACVH

ANGLE MOUNTING BRACKET

Luma-tilt™ angle bracket ships as a pair

Order as:

ZLANGBKT

PRODUCT 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. 1, 2, 3 and 4-lamp fixtures. 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.

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 22	Circuits to which ballast is connected	LV Low-voltage dimming	G Ground
PLR22	1 Black	(blank) Not required for 22		
	2 Black and red	A Black wire		
		B Red wire		

Typical Applications

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

PRODUCT INFORMATION

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

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

FEATURES

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

Note: Specifications subject to change without notice.

Passive Infrared Indoor Occupancy Sensor

LSXR

Single Relay

sensorswitch

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

Example: LSXR 10 ADC HVOLT 30M

LSXR

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

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

For additional information see www.lithonia.com

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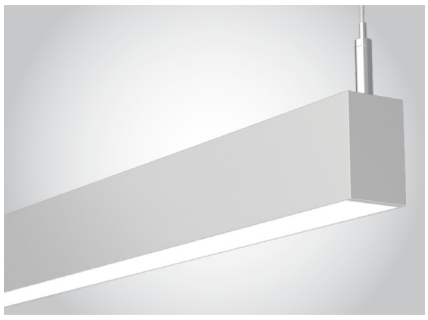
MARK ARCHITECTURAL LIGHTING

SPECIFICATIONS

TYPE: Type B2
Suspended direct/indirect
Lobbies, Community spaces

PROJECT:



SLOT 1

DIRECT/INDIRECT PENDANT
PATTERNS

HIGHLIGHTS

- 600 to 2200 lumens per foot
- Up to 143 Lumens per Watt
- Multiple lens treatment options include drop and edge view
- Powered and controlled by Modulus Remote Driver kit that combines all power and control system inputs into a single feed cord.
- Flicker free dimming to dark (0.01%) enabled by Modulus power and control architecture with integrated digital nLight® module for system networking
- Total System Integration features 5-year limited warranty by Acuity Brands, covers all components and construction
- Pre-configured square and rectangular patterns available in 2' and 4' bases, up to 8'. Ability to create a custom pattern to meet any specification.

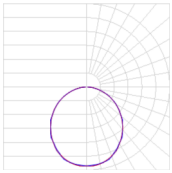
FIXTURE PERFORMANCE

	Direct					Indirect				
Nominal Lumens/Foot	200LMF	400LMF	600LMF	800LMF	1000LMF	I400LMF	I600LMF	I800LMF	I1000LMF	I1200LMF
Delivered Lumens/Foot	240	370	550	750	935	425	635	865	1075	1275
Input Watts/Foot	2.06	3.27	5.08	7.27	9.45	2.51	3.9	5.43	7.05	8.92
Lumens/Watt	117	113	108	103	99	169	163	159	153	143

**Based on a 4ft 35K fixture with standard lambertian distribution*

Declare. nLIGHT eldoLED

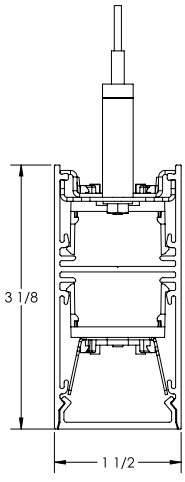
DIRECT DISTRIBUTION

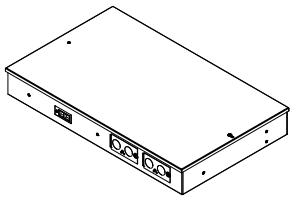


Lambertian (no optic)

DIMENSIONS

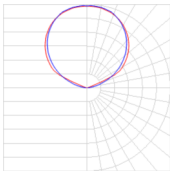
Section View





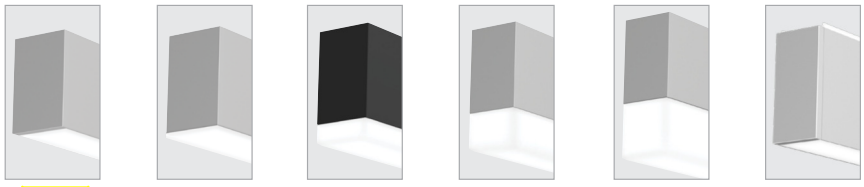
*For dimensions of head unit reference page 5.

INDIRECT DISTRIBUTION



Lambertian (no optic)

DIFFUSERS/SHIELDING



Flush Lens | Edge View Lens | 1/2" Drop Lens | 1" Drop Lens | 1-1/2" Drop Lens | Top Glow

AcuityBrands.

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MARK ARCHITECTURAL LIGHTING™

Slot 1
Direct/Indirect Pendant Patterns

ORDERING

Example: S1LIDP 4X4P 90CRI 35K 600LMF I90CRI I35K I1000LMF MIN1 SCT MVOLT WHT ZT F1/36A RDCY WHTCY WCRD

	Varies	Varies				

Series

S1LIDP	Slot 1 Pendant Indirect / Direct Pattern

Plan

SPP	Square pattern
RPP	Rectangular pattern
OPP	Open pattern
CPP	Closed pattern

Pre-Configured Patterns

2X2P	2x2 Square pattern
2X4P	2x4 Rectangular pattern
2X6P	2x6 Rectangular pattern
2X8P	2x8 Rectangular pattern
4X4P	4x4 Square pattern
4X6P	4x6 Rectangular pattern
4X8P	4x8 Rectangular pattern

Total Run Length

(blank)	Using pre-configured pattern
_FT	Specify pattern in total linear length

Configuration

(blank)	Using pre-configured pattern
_90C	# Corners

Corner angles available from 40°-160°. Replace the 90 with the appropriate corner degree to specify.

Direct Light Source Color Rendering

90CRI	90 CRI

Direct LED Color Temp

27K	2700K
30K	3000K
35K	3500K
40K	4000K
50K	5000K

Direct LED Light Output

200LMF	200 lumens per FT
400LMF	400 lumens per FT
600LMF	600 lumens per FT
800LMF	800 lumens per FT
1000LMF	1000 lumens per FT
_LMF	# lumens per FT

Limited to 50LMF increments between 400 and 1000LMF

Indirect Light Source Color Rendering

I90CRI	90CRI

Indirect LED Color Temp

I27K	2700K
I30K	3000K
I35K	3500K
I40K	4000K
I50K	5000K

Indirect LED Light Output

I200LMF	200 lumens per FT
I400LMF	400 lumens per FT
I600LMF	600 lumens per FT
I800LMF	800 lumens per FT
I1000LMF	1000 lumens per FT
I1200LMF	1200 lumens per FT
_LMF	# lumens per FT

Limited to 50LMF increments between 200 and 1000LMF

Minimum Dimming Level

MIN1	Constant current, dimming to 1%
DARK	Constant current, dimming to 0.1%

Switching

SCT	Single Circuit
DCT	Dual Circuit

If DCT, NLTAIR2 not available

Direct Shielding

(blank)	Flush lens
DRP05	1/2" Drop lens
DRP1	1" Drop lens
DRP15	1 1/2" Drop lens
EGLD	Edge View direct lens

Indirect Shielding

(blank)	No Indirect Shielding
TGLD	Top Glow Lens

	TBD					

Voltage

MVOLT	Multi-volt, 120-277
120	120V
277	277V
347	347V

347V is not available with E35INV, EC, WEC

Finish

WHT	White (semi-gloss)
BLK	Black (semi-gloss)
SLV	Silver (semi-gloss)
WHTT	White (textured)
BLKT	Black (textured)
SLVT	Silver (textured)
RALTBD	RAL paint finishes

RALTBD is for pricing only. Replace with applicable RAL number when placing order.

Emergency Options

(blank)	No Emergency Option
E35INV	35W Micro inverter
WEC	Emergency circuit for entire run
_EC	# of emergency circuits

MVOLT is not available with E35INV

Control Input

ZT	0-10V control
NLIGHT	nLight enabled
NLTAIR2	nLight AIR (wireless) enabled
DALI	DALI compatible
ECOI	Lutron Ecosystem Interface

ZT is only available with 2 zones.

Primary Zone

(blank)	Select if single zone
NS_	Select if multi-zones required (with no sensors), call out length of zone in feet. Zones cannot end mid-fixture.
_VPIR15 ADC*	Vertex Daylight Dimming Sensor

Not available with ZT and DCT.
Not available with NLTAIR2.
*Only available with NLIGHT. Not available with DRP05, DRP1, DRP15 or EGLD. Not available with Secondary or Tertiary zones. Only 1 sensor per fixture section.

Secondary Zone

(blank)	Select if single zone
SNS_	Select if secondary zone is required (with no sensors), call out length of zone in feet. Zones cannot end mid-fixture.

Not available with ZT and DCT.
Not available with NLTAIR2.

Tertiary Zone

(blank)	Select if single zone
TNS_	Select if tertiary zone is required (with no sensors), call out length of zone in feet. Zones cannot end mid-fixture.

Not available with ZT and DCT.
Not available with NLTAIR2.

Mounting Type

F1/	T-bar ceiling (universal mounting bracket)
F1A/	T-bar ceiling (UMB with integrated J-box)
F2/	Hard ceiling (horizontal J-box)

Overall Suspension

36A	36" adjustable
72A	72" adjustable
144A	144" adjustable

*Measured from ceiling to bottom of luminaire.

Canopy Form

RDCY	Round Canopy
SQCY	Square Canopy

Canopy Color

BLKCY	Black canopy
WHTCY	White canopy
SLVCY	Silver Canopy

Cord Color

WCRD	White cord
BCRD	Black cord

Options

(blank)	No Option
DC	Clear dust cover
DCF	Frosted dust cover
MCS	5" support canopy to match feed canopy

DC & DCF not available with TGLD.

See pages 4 & 5 for details on remote Modulus power and control driver kits.

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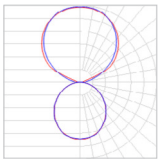
PHOTOMETRICS



Test Report:ISF 201609QIDP10898
IES LM79-08
S1LID 4FT I1200LMF I35K 1000LMF 35K
Lumens: 8830.2
Wattage: 73.14
Efficacy: 120.73

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1,029.00	11.7%
0-40	1,672.00	18.9%
0-60	2,918.20	33.0%
60-90	812.1	9.2%
70-100	385.4	4.4%
90-120	898.7	10.2%
0-90	3,730.20	42.2%
90-180	5,100.00	57.8%
0-180	8,830.20	100.0%

EXPECTED LIFE: L90 @ 60,000 HOURS
CALCULATED LIFE: L80 @ 120,000 HOURS

CCT SCALING CHART

CCT	CRI	MULTIPLIER
27K	90CRI	1
30K	90CRI	1.02
35K	90CRI	1.04
40K	90CRI	1.05
50K	90CRI	1.02

Lumen scaling charts can be used to approxiomate the lumen values at different Kelvin temperatures, color rendering indices, optics or sheilding. Example: Calculating the lumen change by adding the QCBFW baffle. Lumen output for S1LIDP 4FT I1200LMF I35K 1000LMF 35K = 8830.2 8830.2 x 0.81 = 7,152.46 lumens

OPTICAL SCALING CHARTS

DOWNLIGHT	
DRP05	1.11
DRP1	1.13
DRP15	1.17
EGLD	1.08

UPLIGHT	
SHIELDING	**MULTIPLIER**
TGLD	0.91
DUST COVERS	**MULTIPLIER**
DC	1
DCF	0.95

**Base fixture with Lambertian distribution and flush lens*

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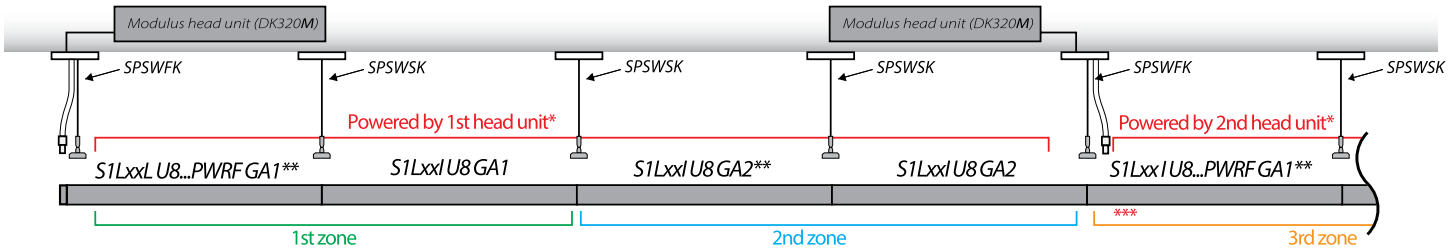
REMOTE MODULUS POWER AND CONTROL UNIT

RUN LAYOUT



**Number of fixtures that can be powered by a single head unit is a function of lumen package and desired control zones.*

*** Fixture zoning is done by digitally addressing drivers in the fixture - for example, "GA1" in the nomenclature means the drivers are factory-programmed to the first zone. Care should be taken when installing to place fixtures in the correct zone according to job drawings. Zone #s restart at each new head unit.*

**** Fixtures on separate head units should not be connected together - this is prevented by an FS/L or FS/R fixture having a harness connector that's incompatible with the right (or left) end harness on a standard fixture.*

ELEVATION VIEW

TYPICAL LUMINAIRE LAYOUT
(*HANGING POINTS CAN VARY BASED ON CONFIGURATIONS)

Slot 1 Head Unit Requirements							
Individual LED watts	**Indirect**						
	LMF	**0**	**400**	**600**	**800**	**1000**	**1200**
Direct	**0**	32ft	32ft	32ft	32ft	32ft	32ft
	200	32ft	32ft	30ft	22ft	22ft	26ft
	400	32ft	32ft	32ft	30ft	26ft	22ft
	600	32ft	32ft	30ft	26ft	22ft	18ft
	800	32ft	32ft	26ft	22ft	18ft	18ft
	1000	30ft	26ft	22ft	18ft	18ft	14ft

Footage indicates at what length, a new head unit will be required.

Each Modulus remote driver kit can power up to 32 linear feet of luminaires. Use table to calculate the number of remote driver units needed in a run or pattern by finding the intersection between your direct and indirect lumen outputs. (If Indirect or Direct only, use the zero to represent the direction not applicable.)
Modulus units can be a maximum of 50 feet from the mounting junction box.

Control Types and Available Zones per Head Unit					
Control type	**Max addressable zones**	**nLight devices**	**Max sensors**	**nLight devices consumed with max sensors**	**Fixture zoning method**
nLight	16	17	5	22	Field programmed - Sensorview
Dali*	16	-	0	-	Field programmed - 3rd party DALI commissioning tool
ZT (0-10)	2	-	0	-	Factory programmed - use NS, SNS fields in order
NLTAIR2**	1	-	0	-	N/A (only one zone available)
TUWH NLT	8	17	5	-	Field programmed - Sensorview
TUWH ZT	1	-	0	22	N/A (only one zone available)
NLTAIR2 with ZT***	2	-	0	-	Factory programmed - Use NS, SNS fields in order
NLTAIR2 with TUWH ZT***	1	-	0	-	N/A (only one zone available)

**Class 1 DALI with no internal isolation from fixture run. Requires user-supplied DALI master controller and power supply*
***Uses factory-installed internal single-channel rIO*
***Requires 2x user-installed external rPP20D with 0-10V wiring into a standard ZT-type head unit. Order ZT or TUWH ZT fixtures and rPP separately

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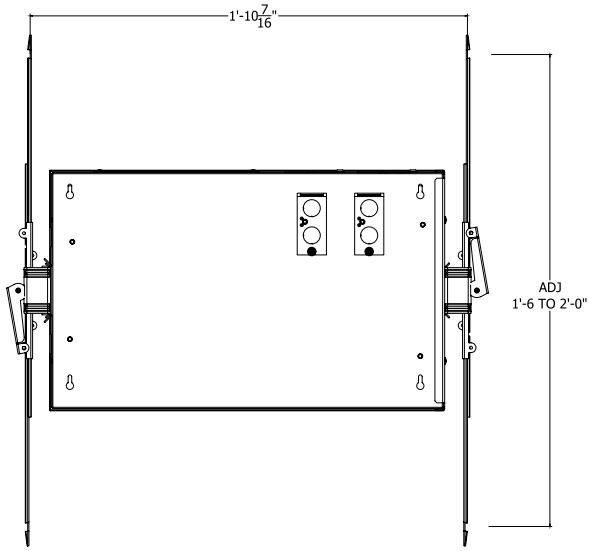
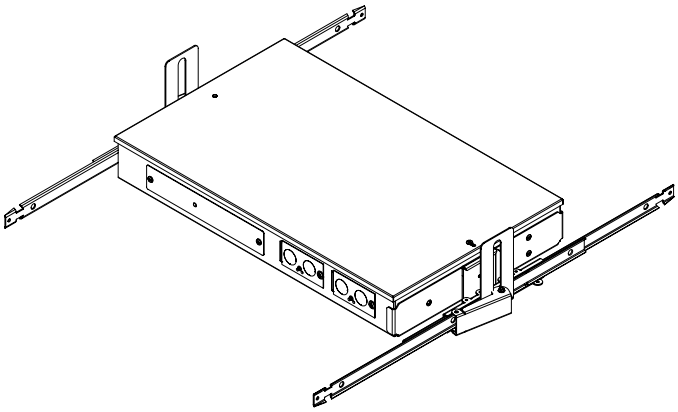
REMOTE MODULUS POWER & CONTROL UNIT

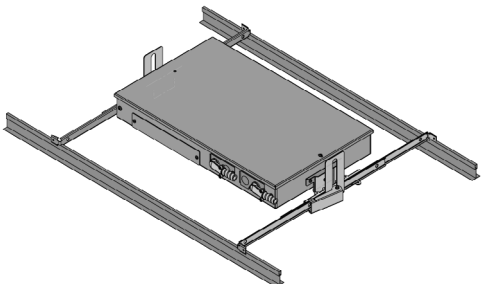
F1 UNIT DETAILS

MOUNTING LOCATIONS



OVERALL DIMENSIONS
2'-2¼" x 2'-¾" x 4¾"

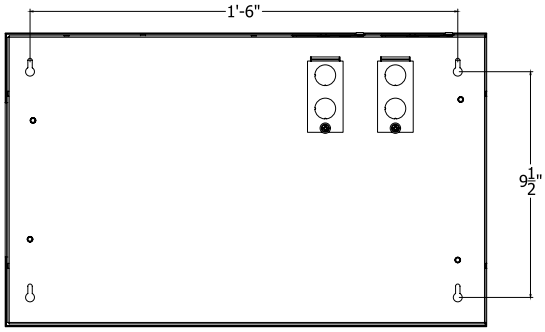




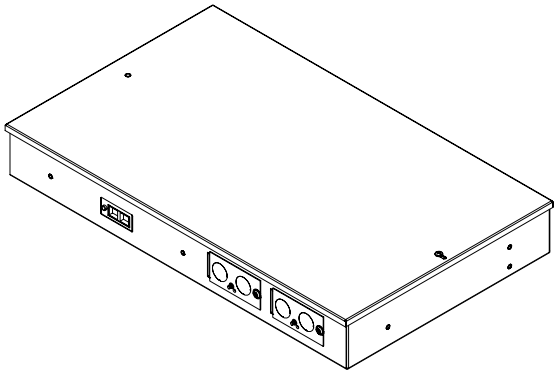
F1 GRID MOUNT

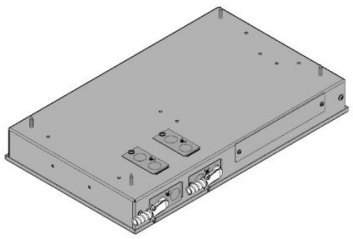
F2 UNIT DETAILS

MOUNTING LOCATIONS

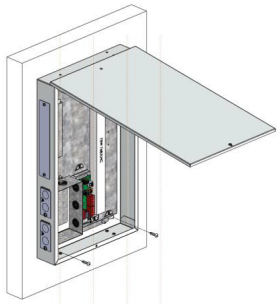


OVERALL DIMENSIONS
1'-8¼" x 1'-⅜" x 2 ⅝"





F2 CEILING MOUNT



F2 WALL MOUNT

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MOST COMMON MOUNTING TYPES AND OPTIONS

Options available for this specific luminaire are checked in the boxes below.

Mounting Type

F1/ For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications.

F2/ For use with recessed or surface mount horizontal J-box applications.

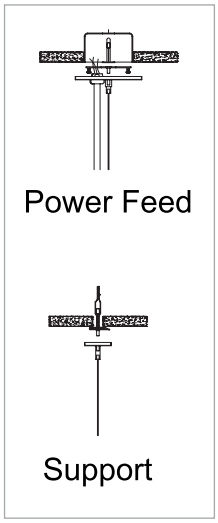
F1A/ For use with most T-Bar grid ceilings. Designed for on-grid applications. *Comes complete with J-box with built-in cutout to go over grid*

Mounting Options

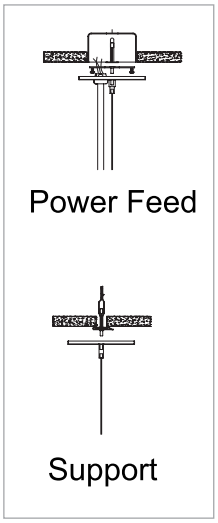
MCS MCS canopy supplies 5" canopy to match feed point canopy size. Matching canopy at support for aesthetics.

☑ Indicates mounting options available with this luminaire.

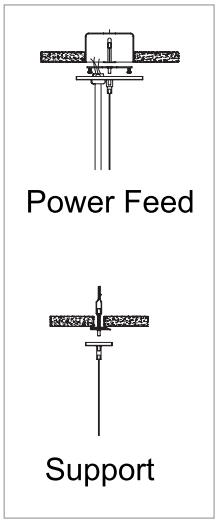
☑ F1/



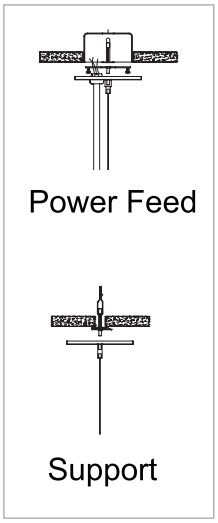
☑ F1/ ordered with MCS



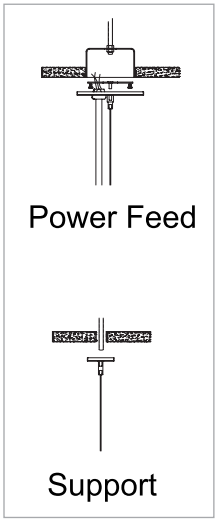
☑ F1A/



☑ F1A/ ordered with MCS



☑ F2/



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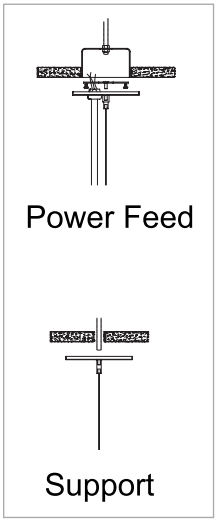
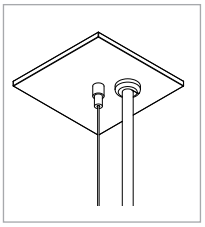
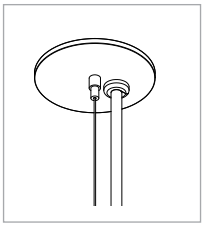


Single Feed Points

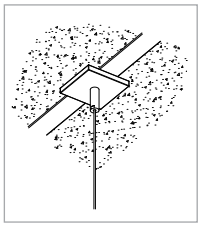


5" Square

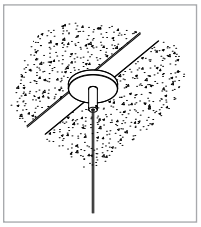


5" Round

Non-Feed Points for T-Bar Mounting



2" Square
(5" square with
MCS option)



2" Round
(5" round with
MCS option)

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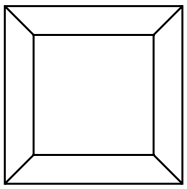
Slot 1
Direct/Indirect Pendant Patterns

PRE-CONFIGURED PATTERNS

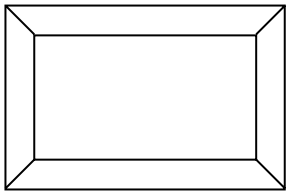
Mark Architectural Lighting's pre-configured patterns ship as one unit.
Precision welded corners give a clean look to the pattern, with no assembly necessary on the job site.

2' x 2' Square



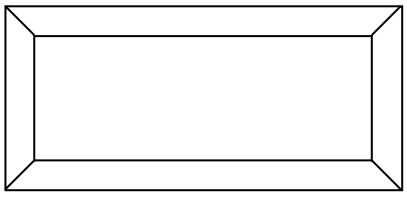
S1LIDP 2X2P 90CRI...

2' x 4' Rectangle



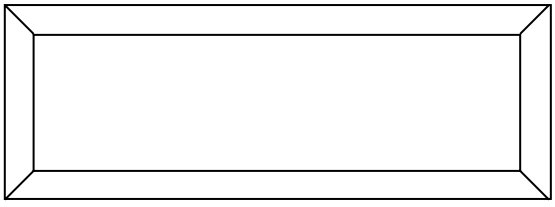
S1LIDP 2X4P 90CRI...

2' x 6' Rectangle



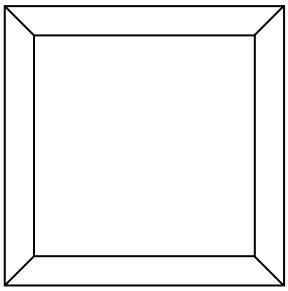
S1LIDP 2X6P 90CRI...

2' x 8' Rectangle



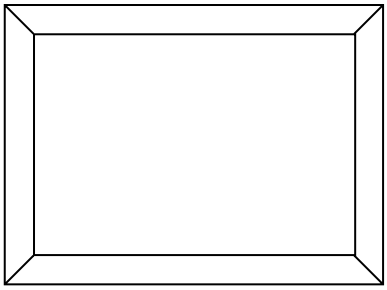
S1LIDP 2X8P 90CRI...

4' x 4' Square



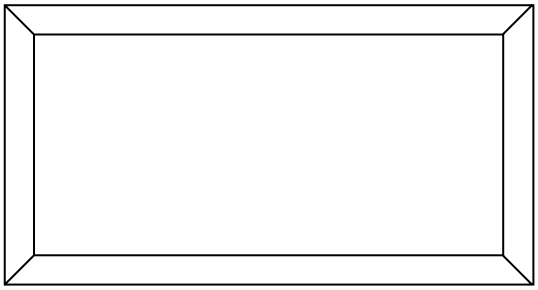
S1LIDP 4X4P 90CRI...

4' x 6' Rectangle



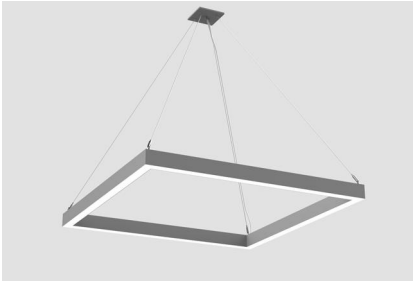
S1LIDP 4X6P 90CRI...

4' x 8' Rectangle



S1LIDP 4X8P 90CRI...

Monopoint mount supplied with 2x2, 4x4 & 2x4 pre-configured patterns.



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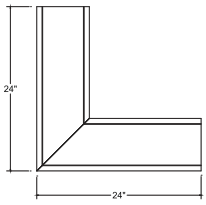
MARK ARCHITECTURAL LIGHTING™

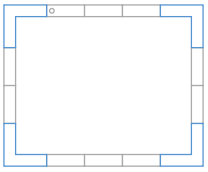
Slot 1
Direct/Indirect Pendant Patterns

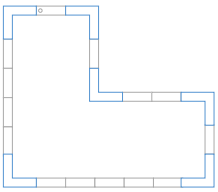
PATTERN PLAN

Slot 1 LED patterns can be configured in 1' increments with illuminated 90° corners, with standard 2' corner lengths. Please note that optics will only be on the straight runs, they are not installed on the 2' corners. For custom angles, corners or junction lengths, consult factory.



90° Corner





Power Feed

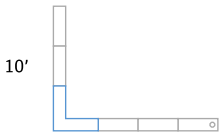
Tips

4 corners per SPP and RPP plans
Maximum of 6 corners per OPP and CPP plans

Total Run Length = all sides of the pattern
Submittals are required for patterns, please use the grid below for your layout with all relevant dimensions.

Note: Some configurations may require modifications due to the nature of the non-standard fixture sections based on the shape required.

Example:



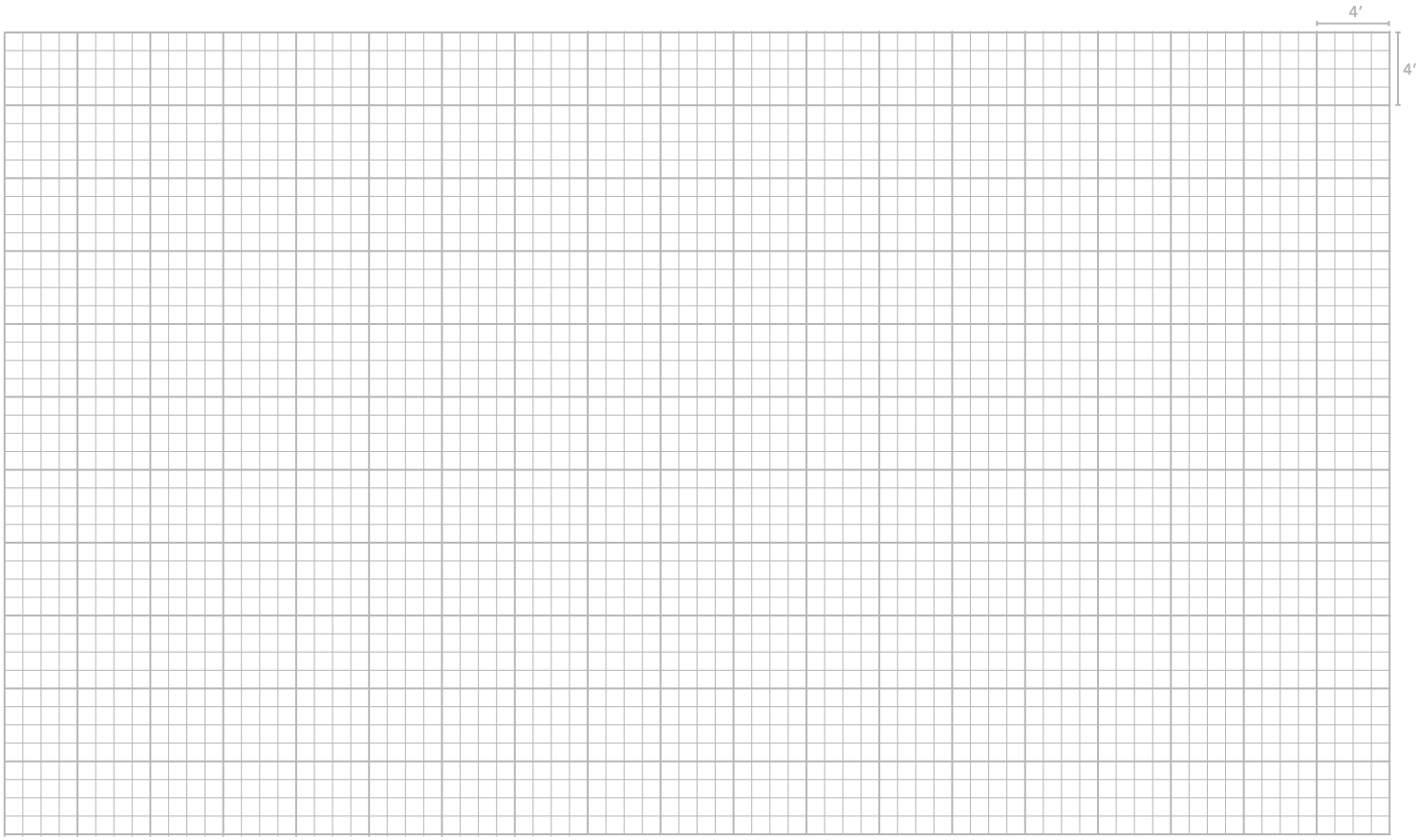
*not to scale

Total run length = 24'
190C = 1 90° corner

Sample Nomenclature:
S1LIDP OPP 24FT 190C 90CRI 30K 600LMF MIN1 WHT ZT F1/72A RDCY WHTCY WCRD

LAYOUT SKETCH

Please draw and configure your pattern plan below.



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Slot 1
Direct/Indirect Pendant Patterns

INTELLIGENT LUMINAIRE CHARTS

Choose nomenclature from these columns

Driver Configurations

Minimum Dimming Level	Control Input	Driver	Dimming Range	Notes
MIN1	DALI	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, DALI controls and power supply supplied by others
MIN1	ZT	eldoLED DCDC DUALdrive	100 to 1%	Linear Dimming, supplied with leads for two independent zones of 0-10V
MIN1	NLIGHT	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, nIO EZDCA 16Z in head unit
MIN1	NLTAIR2	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, rIO EZDL in head unit with external antenna
DARK	DALI	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, DALI controls and power supply supplied by others
DARK	ZT	eldoLED DCDC DUALdrive	100 to 0.1%	Linear Dimming, supplied with leads for two independent zones of 0-10V
DARK	NLIGHT	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, nIO EZDCA 16Z in head unit
DARK	NLTAIR2	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, rIO EZDL in head unit with external antenna

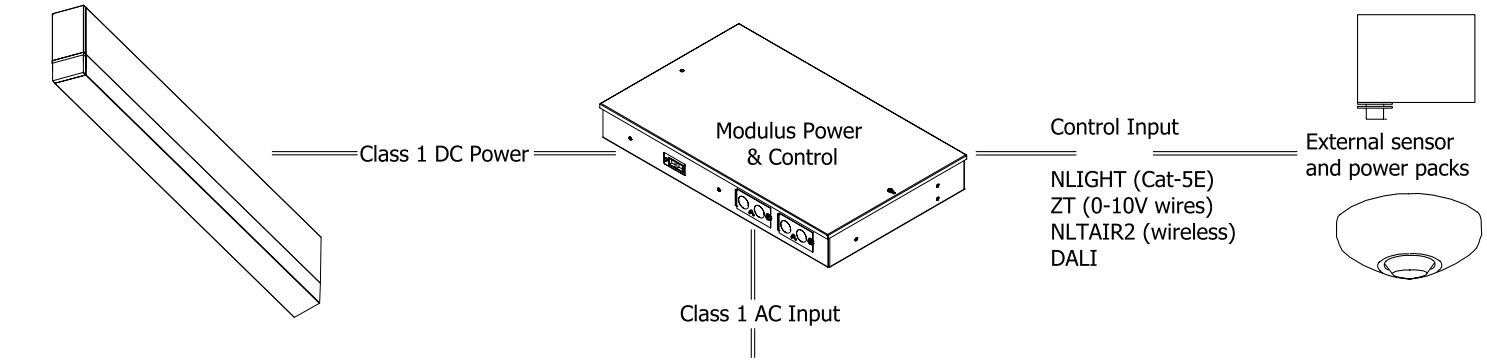
Control + Sensor Configuration

Control	Sensor	Sensor	Notes
NLIGHT +	VPIR15 ADC =	VERTEX 15F EZ ADC VLP	Only 5 sensors per Modulus driver unit. Zoning reconfigurable via Sensorview software.

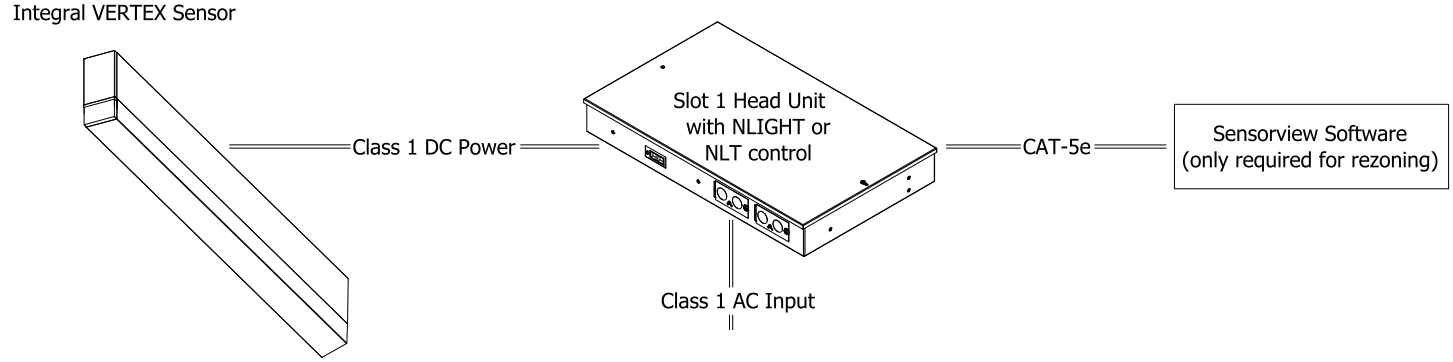
CONTROLS

Remote sensors can be paired with NLIGHT options to control your runs.

SLOT1 Luminaire



Slot 1 Luminaire with Integral VERTEX Sensor



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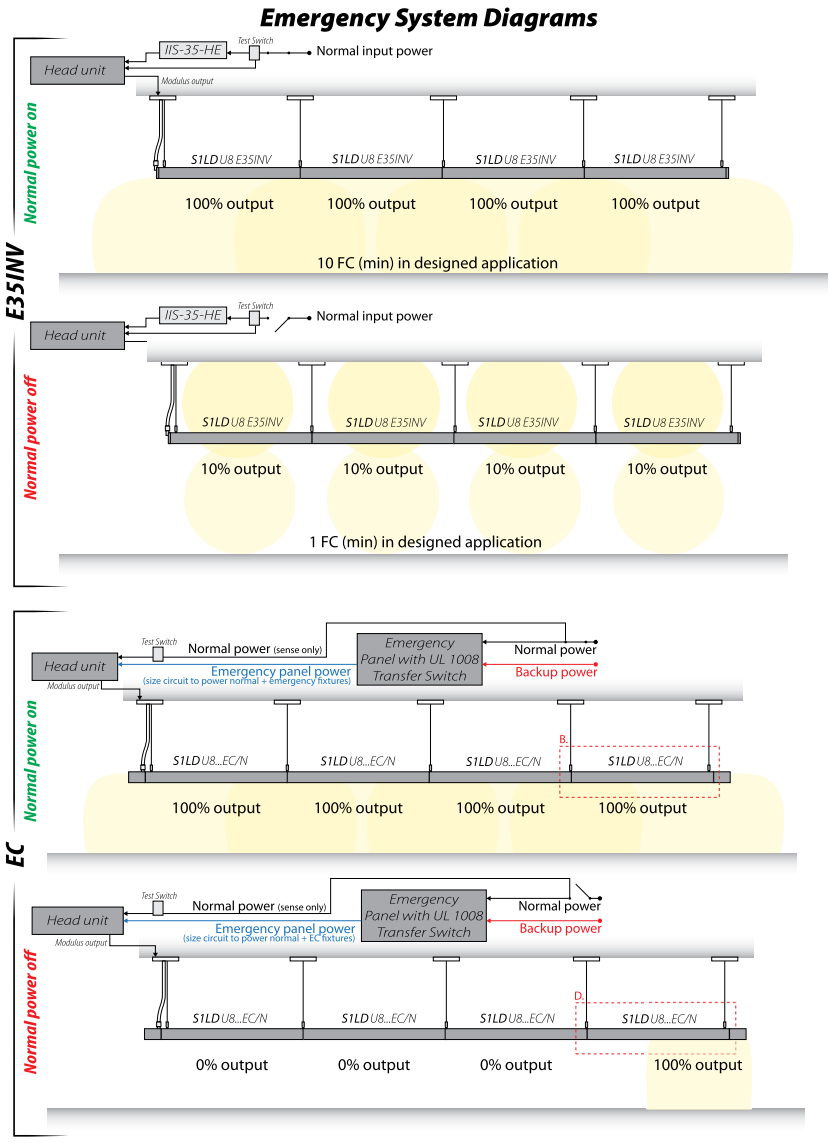
EMERGENCY OPTIONS

S1LIDP

EC circuits default to the right side 4' section, of an 8' fixture (EC/R) and the complete section of a 4' fixture (EC/L).
Single EC circuit defaults to the last 4' of the run.
Two EC circuits default to the last 4' of the run and the first 4' of the run.
Additional circuits will be added from the end of the run using the last 4' of an 8' fixture or complete 4' fixtures.

EXAMPLES



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INTEGRATED SENSOR LAYOUT

CORRECT:

8FT MSL8 run with one sensor on the left VPIR15 ADC

8FT MSL8 run with one sensor on the right VPIR15 ADC

32FT MSL8 run with two sensors - 2VPIR15 ADC

32FT MSL8 run with four sensors - 4VPIR15 ADC

INCORRECT:

8FT MSL8 run with two sensor - 2VPIR15 ADC

Doesn't work because each luminaire supports only one sensor

8FT MSL8 run with one sensor - VPIR15 ADC

Doesn't work because sensor cannot be anywhere besides the ends of the luminaire

NOTES:
- 5 sensors max per Modulus driver unit
- Only 1 sensor per fixture
- Sensors appear as nLight devices and can be re-zoned in the field using Sensorview software
- Factory zoning isn't available with sensors since they can be re-zoned in the field using Sensorview
- Internal sensors are only available with NLIGHT and NLT control types

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SPECIFICATIONS

Housing
Nominal 3.125" x 1.5" extruded aluminum housing

Finish
White, Black or Silver powdercoat

Reflector
Formed steel with high reflectance white

LED Components
Linear: Nichia®- 757 series LED chips (>80 CRI)

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

Modulus Remote Power and Control System
Remote power source provides "natural dimming" with smooth, continuous and flicker-free dimming to dark (0.1%). Syncing for controls: 2mA max.

THD: <10%. Insignificant inrush current at 120 and 277VAC. FCC Class A and B tested for EMI and RFI. When NLIGHT or DALI is specified driver will be set for logarithmic dimming curve. If control Input of 0-10V is specified driver will be set for linear dimming curve.

Integrated static white digital nLight® module enables up to 16 Modulus zones via CAT-5e, while outputting a maximum of 10mA into the nLight® bus. Integrated Tunable White digital nLight® module enables up to 8 Modulus zones via CAT-5e and does not output, nor consume, bus power, daylight dimming and/or dual technology detection, see Controls page for external sensor options.

Each nLight® Modulus™ head unit utilizes 22 device addresses. nLight® Tunable White head units consume 14 device addresses.

Color Consistency
The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. The color a variation of no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

Driver
eldoLED® driver provides natural dimming with smooth, continuous and flicker-free deep dimming. Supports operation between 120 VAC and 277 VAC, with low inrush current (NEMA 410) and THD < 20%. Meets FCC Title 47 C.F.R. 15 Class A or Class B requirements. Lutron interface module is also available.

Acuity luminaires incorporating eldoLED LED drivers perform within the recommended operating areas for flicker as a function of frequency and modulation (%) outlined in IEEE Standard 1789-2015 (IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers), in typical operating conditions at representative dimming levels.

Certification
Tested to UL 2108 standards.

Warranty
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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

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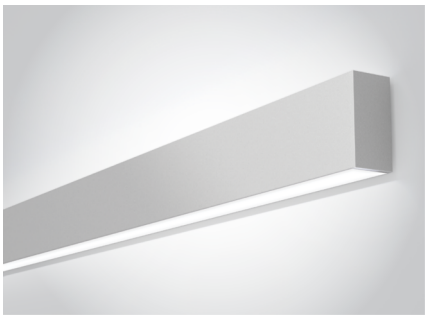
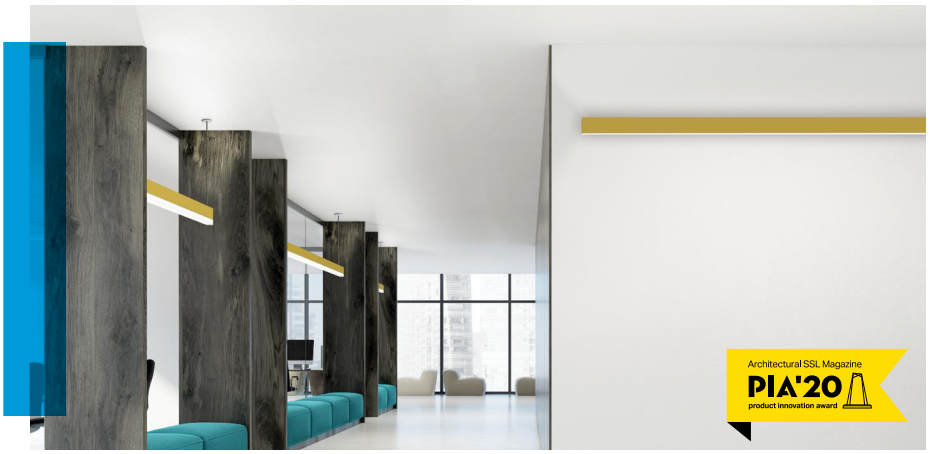
MARK ARCHITECTURAL LIGHTING

SPECIFICATIONS

TYPE: Type B3
Wall mnt. direct/indirect, wall glazer

PROJECT: Community spaces, office





SLOT 1

DIRECT/INDIRECT WALL

HIGHLIGHTS

- 600 to 2200 lumens per foot
- 2', 3', 4', 5', 6' ,7' or 8' lengths and continuous row
- Up to 143 Lumens per Watt
- Three distributions: Lambertian, Asymmetric or Wall Graze
- Multiple lens treatment options include drop and edge view
- Shielding provided by integrated deep cell quiet ceiling baffle
- Powered and controlled by Modulus Remote Driver kit that combines all power and control system inputs into a single feed cord.
- Flicker free dimming to dark (0.01%) enabled by Modulus power and control architecture with integrated digital nLight® module for system networking
- Total System Integration features 5-year limited warranty by Acuity Brands, covers all components and constructiom
- Gloss or matte textured finishes in white, silver or black

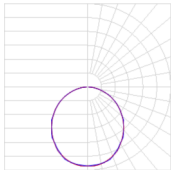
FIXTURE PERFORMANCE

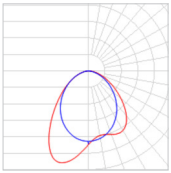
	Direct					Indirect				
Nominal Lumens/Foot	200LMF	400LMF	600LMF	800LMF	1000LMF	I400LMF	I600LMF	I800LMF	I1000LMF	I1200LMF
Delivered Lumens/Foot	240	370	550	750	935	425	635	865	1075	1275
Input Watts/Foot	2.06	3.27	5.08	7.27	9.45	2.51	3.9	5.43	7.05	8.92
Lumens/Watt	117	113	108	103	99	169	163	159	153	143

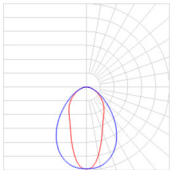
**Based on a 4ft 35K fixture with standard lambertian distribution*

Declare. nLIGHT eldoLED

DIRECT DISTRIBUTION

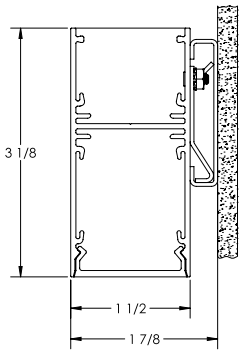

Lambertians (no optic)

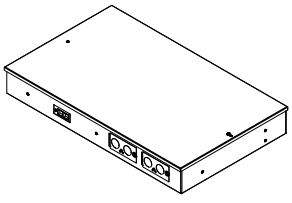

Asymmetric (DAS)


Wall Graze (WG)

DIMENSIONS

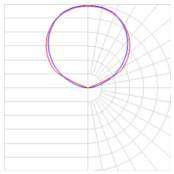
Section View

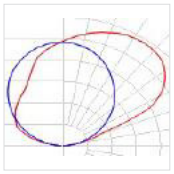




*For dimensions of head unit reference page 5.

INDIRECT DISTRIBUTION


Lambertian (no optic)


Asymmetric (AS)

DIFFUSERS/SHIELDING

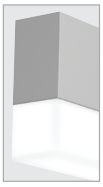
Flush Lens

Quiet Ceiling Baffle

Edge View Lens

1/2" Drop Lens

1" Drop Lens


1-1/2" Drop Lens

Top Glow

AcuityBrands.

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MARK ARCHITECTURAL LIGHTING™

Slot 1
Direct/Indirect Wall

ORDERING

Example: S1LWID LLP 32FT MSL8 90CRI 35K 800LMF I90CRI I35K I1200LMF MIN1 SCT MVOLT WHT ZT

Series	Plan	Total Run Length	Max Section Length	Direct Light Source Color Rendering	Direct LED Color Temp	Direct LED Light Output	Direct Distribution (Optics)
S1LWID Slot 1 Wall - Indirect / Direct	**LCB** Linear center balanced **LLP** Linear longest possible **LSL** Longest same length	**_FT** Specify continuous run length (in whole feet, 2' minimum) Unit length may affect available options. 2' & 3' only available as individual units **For runs longer than 8FT: ALWAYS order the run by the TOTAL RUN LENGTH. Ordering the sections individually will not provide the correct joining hardware to allow connection in the field.**	**MSL2** 2' **MSL3** 3' **MSL4** 4' **MSL5** 5' **MSL6** 6' **MSL7** 7' **MSL8** 8'	**90CRI** 90 CRI	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **50K** 5000K	**200LMF** 200 lumens per FT **400LMF** 400 lumens per FT **600LMF** 600 lumens per FT **800LMF** 800 lumens per FT **1000LMF** 1000 lumens per FT **_LMF** # lumens per FT Limited to 200LMF - 1000LMF in 50LMF increments	**(blank)** Standard lambertian distribution **WG** Wall graze distribution **DAS** Direct Asymmetric Distribution

Indirect Light Source Color Rendering	Indirect LED Color Temp	Indirect LED Light Output	Indirect Distribution (Optics)	Minimum Dimming Level	Switching	Direct Shielding	Indirect Shielding
I90CRI 90CRI	**I27K** 2700K **I30K** 3000K **I35K** 3500K **I40K** 4000K **I50K** 5000K	**I200LMF** 200 Lumens per FT **I400LMF** 400 lumens per FT **I600LMF** 600 lumens per FT **I800LMF** 800 lumens per FT **I1000LMF** 1000 lumens per FT **I1200LMF** 1200 lumens per FT **_LMF** # lumens per FT Limited to 200LMF - 1200LMF in 50LMF increments	**(blank)** Standard Lambertian **AS** Asymmetric Distribution	**MIN1** Constant current, dimming to 1% **DARK** Constant current, dimming to 0.1%	**SCT** Single Circuit **DCT** Dual Circuit If DCT, NLTAIR2 not available	**(blank)** Flush lens **QCBFW** Quiet ceiling baffle, white **QCBFB** Quiet ceiling baffle, black **QCBFS** Quiet Ceiling Baffle, Specular Silver **DRP05** 1/2" Drop lens **DRP1** 1" Drop lens **DRP15** 1 1/2" Drop lens **EGLD** Edge View direct lens No shielding options available with WW, WG, DBW, DAS, BW or AS optics	**(blank)** No Indirect Shielding **TGLD** Top Glow Lens

Voltage	Finish	Emergency Options	Control Input	Primary Zone	Secondary Zone	Tertiary Zone
MVOLT Multi-volt, 120-277 **120** 120V **277** 277V **347** 347V 347V is not available with E35INV, EC, WEC.	**WHT** White (Semi-gloss) **BLK** Black (Semi-gloss) **SLV** Silver (Semi-gloss) **WHTT** White (textured) **BLKT** Black (textured) **SLVT** Silver (textured) **RALTBD** RAL paint finishes RALTBD is for pricing only. Replace with applicable RAL number when placing order.	**(blank)** No Emergency Option **E35INV** 35W Micro inverter **WEC** Emergency circuit for entire run **_EC** # of emergency circuits MVOLT is not available with E35INV.	**ZT** 0-10V control **NLIGHT** nLight enabled **NLTAIR2** nLight AIR (wireless) enabled **DALI** DALI compatible **ECOI** Lutron Ecosystem Interface ZT is only available with 2 zones.	**(blank)** Select if single zone **NS_** Select if multi-zones required (with no sensors), call out length of zone in feet. Zones cannot end mid-fixture. **_VPIR15 ADC*** Vertex Daylight Dimming Sensor Not available with ZT and DCT. Not available with NLTAIR2. *Only available with NLIGHT. Not available with DRP05, DRP1, DRP15 or EGLD. Not available with Secondary or Tertiary zones. Only 1 sensor per fixture section.	**(blank)** Select if single zone **SNS_** Select if secondary zone is required (with no sensors), call out length of zone in feet. Zones cannot end mid-fixture. Not available with ZT and DCT. Not available with NLTAIR2.	**(blank)** Select if single zone **TNS_** Select if tertiary zone is required (with no sensors), call out length of zone in feet. Zones cannot end mid-fixture. Not available with ZT and DCT. Not available with NLTAIR2.

Options
(blank) No Options **DC** Clear dust cover **DCF** Frosted dust cover DC & DCT are not available with TGLD.

See pages 4 & 5 for details on remote Modulus power and control driver kits.

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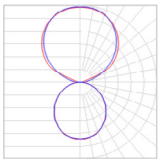
MARK ARCHITECTURAL LIGHTING™

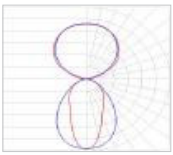
Slot 1
Direct/Indirect Wall

PHOTOMETRICS



Test Report:ISF 201609QIDP10898
IES LM79-08
S1LID 4FT I1200LMF I35K 1000LMF 35K
Lumens: 8830.2
Wattage: 73.14
Efficacy: 120.73

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1,029.00	11.7%
0-40	1,672.00	18.9%
0-60	2,918.20	33.0%
60-90	812.1	9.2%
70-100	385.4	4.4%
90-120	898.7	10.2%
0-90	3,730.20	42.2%
90-180	5,100.00	57.8%
0-180	8,830.20	100.0%



Test Report:201613IDP10898
IES LM79-08
S1LID 4FT I1200LMF I35K 1000LMF 35K WG
Lumens: 8503.3
Wattage: 73.52
Efficacy: 115.66

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1,318.70	15.5%
0-40	1,946.40	22.9%
0-60	2,932.60	34.5%
60-90	470.8	5.5%
70-100	214.5	2.5%
90-120	898.7	10.6%
0-90	3,403.30	40.0%
90-180	5,100.00	60.0%
0-180	8,503.30	100.0%

EXPECTED LIFE: L90 @ 60,000 HOURS
CALCULATED LIFE: L80 @ 120,000 HOURS

CCT SCALING CHART

CCT	CRI	MULTIPLIER
27K	90CRI	1
30K	90CRI	1.02
35K	90CRI	1.04
40K	90CRI	1.05
50K	90CRI	1.02

Lumen scaling charts can be used to approximate the lumen values at different Kelvin temperatures, color rendering indices, optics or sheilding. Example: Calculating the lumen change by adding the QCBFW baffle. Lumen output for S1LWID 4FT I1200LMF I35K 1000LMF 35K 8830.2 x 0.81 = 6585.46 lumens

OPTICAL SCALING CHARTS

DOWNLIGHT	
DISTRIBUTIONS	**MULTIPLIER**
LAMBERTIAN	1
DAS	0.81
SHEILDING	**MULTIPLIER**
QCBFW	0.81
QCBFB	0.52
QCBFS	0.67
DRPO5	1.11
DRP1	1.13
DRP15	1.17
EGLD	1.08

UPLIGHT	
DISTRIBUTIONS	**MULTIPLIER**
LAMBERTIAN	1
AS	0.74
SHIELDING	**MULTIPLIER**
TGLD	0.91
DUST COVERS	**MULTIPLIER**
DC	1
DCF	0.95

**Base fixture with Lambertian distribution and flush lens*

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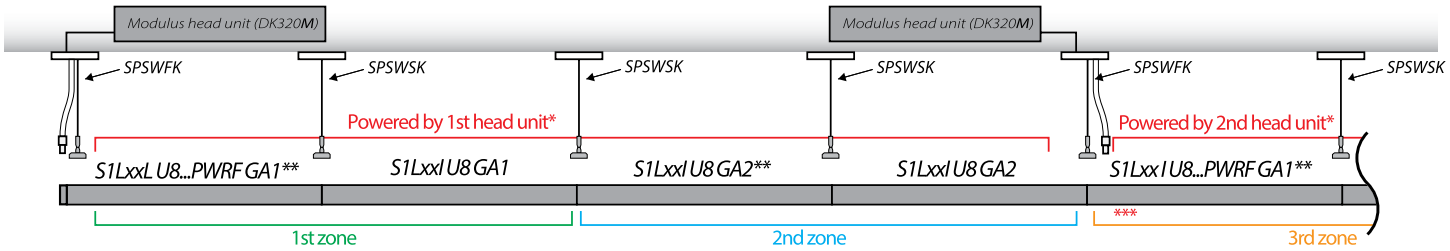
REMOTE MODULUS POWER AND CONTROL UNIT

RUN LAYOUT



**Number of fixtures that can be powered by a single head unit is a function of lumen package and desired control zones.*

*** Fixture zoning is done by digitally addressing drivers in the fixture - for example, "GA1" in the nomenclature means the drivers are factory-programmed to the first zone. Care should be taken when installing to place fixtures in the correct zone according to job drawings. Zone #s restart at each new head unit.*

**** Fixtures on separate head units should not be connected together - this is prevented by an FS/L or FS/R fixture having a harness connector that's incompatible with the right (or left) end harness on a standard fixture.*

ELEVATION VIEW

TYPICAL LUMINAIRE LAYOUT
(*HANGING POINTS CAN VARY BASED ON CONFIGURATIONS)

Slot 1 Head Unit Requirements							
Individual LED watts	**Indirect**						
	LMF	**0**	**400**	**600**	**800**	**1000**	**1200**
Direct	**0**	32ft	32ft	32ft	32ft	32ft	30ft
	200	32ft	32ft	30ft	22ft	18ft	18ft
	400	32ft	32ft	32ft	30ft	26ft	22ft
	600	32ft	32ft	30ft	26ft	22ft	18ft
	800	32ft	32ft	26ft	22ft	18ft	18ft
	1000	30ft	26ft	22ft	18ft	18ft	14ft

Footage indicates at what length, a new head unit will be required.

Each Modulus remote driver kit can power up to 32 linear feet of luminaires. Use table to calculate the number of remote driver units needed in a run or pattern by finding the intersection between your direct and indirect lumen outputs (If Indirect or Direct only, use the zero to represent the direction not applicable.).
Modulus units can be a maximum of 50 feet from the mounting junction box.

Control Types and Available Zones per Head Unit					
Control type	**Max addressable zones**	**nLight devices**	**Max sensors**	**nLight devices consumed with max sensors**	**Fixture zoning method**
nLight	16	17	5	22	Field programmed - Sensorview
Dali*	16	-	0	-	Field programmed - 3rd party DALI commissioning tool
ZT (0-10)	2	-	0	-	Factory programmed - use NS, SNS fields in order
NLTAIR2**	1	-	0	-	N/A (only one zone available)
TUWH NLT	8	17	5	-	Field programmed - Sensorview
TUWH ZT	1	-	0	22	N/A (only one zone available)
NLTAIR2 with ZT***	2	-	0	-	Factory programmed - Use NS, SNS fields in order
NLTAIR2 with TUWH ZT***	1	-	0	-	N/A (only one zone available)

**Class 1 DALI with no internal isolation from fixture run. Requires user-supplied DALI master controller and power supply*
***Uses factory-installed internal single-channel rIO*
***Requires 2x user-installed external rPP20D with 0-10V wiring into a standard ZT-type head unit. Order ZT or TUWH ZT fixtures and rPP separately

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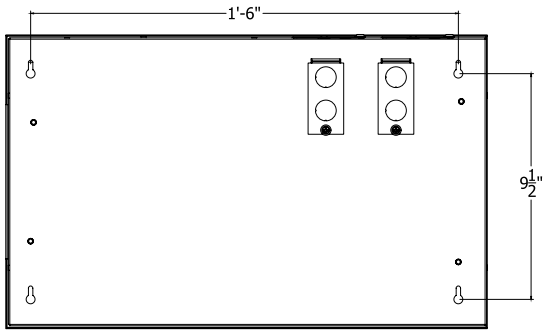
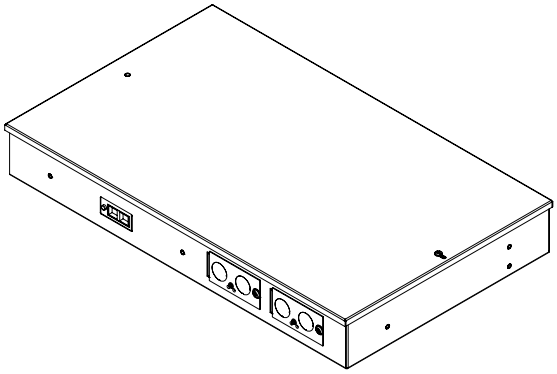
REMOTE MODULUS POWER & CONTROL UNIT

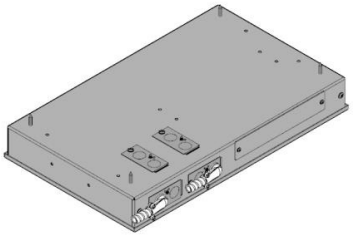
F2 UNIT DETAIL

MOUNTING LOCATIONS

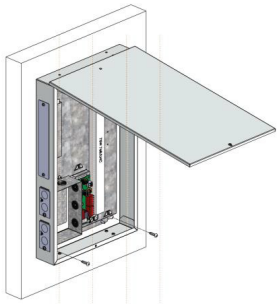


OVERALL DIMENSIONS
1'-8¼" x 1'-⅜" x 2 ⅝"





F2 CEILING MOUNT



F2 WALL MOUNT

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LINEAR PLAN

Mark Lighting offers the ability to provide a continuous run plan to suit your requirements by optionally offering three different methods of configuration.

LLP- Linear Longest Possible

In this configuration, the longest length available is optimized, resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 20 FT run would have 2, 8 FT segments and 1, 4 FT segment at the end of the run.

LLP			
	8 FT	8 FT	4FT

LCB- Linear Center Balanced:

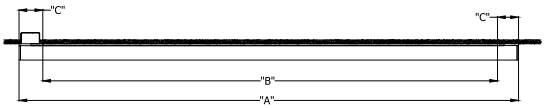
This configuration incorporates the longest center segment(s) along with any additional lengths required to fill the run length, added to the run ends. Example: 16 FT run would have 2, 4 FT segments (one at each end) and 1, 8 FT segment in the center.

LCB			
	4 FT	8 FT	4FT

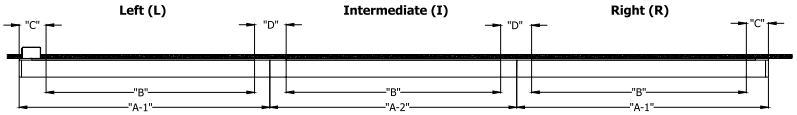
LSL- Linear Same Length:

In this configuration, each segment is the same length and is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length and there are mathematical limitations on what overall row lengths can be achieved. Example: 20 FT row would be achieved with 5, 4 FT long segments equaling 20 FT (nominal).

LSL					
	4FT	4FT	4FT	4FT	4FT



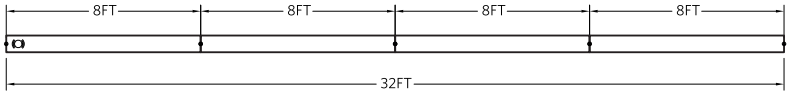
INDIVIDUAL FIXTURES				
ORDERED LENGTH	"A" O.A.L.	"B" O.C.	"C" FROM END	APPROX. WEIGHT
2FT	2'- 3/8"	1'- 4"	4 3/16"	3LB
3FT	3'- 3/8"	1'- 4"	10 3/16"	5LB
4FT	4'- 3/8"	2'- 8"	8 3/16"	7LB
5FT	5'- 3/8"	4'	6 3/16"	8LB
6FT	6'- 3/8"	5'- 4"	4 3/16"	10LB
7FT	7'- 3/8"	5'- 4"	10 3/16"	11LB
8FT	8'- 3/8"	6'- 8"	8 3/16"	13LB



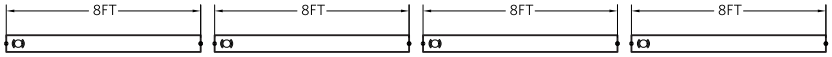
RUN LAYOUT						
ORDERED LENGTH	"A-1" O.A.L.	"A-2" O.A.L.	"B" MOUNT POINT	"C" FROM END	"D"	APPROX. WEIGHT
4FT	4'- 3/16"	4'-0"	2'- 8"	8 3/16"	1'-4"	7LB
5FT	5'- 3/16"	5'-0"	4'	6 3/16"	1'	8LB
6FT	6'- 3/16"	6'-0"	5'- 4"	4 3/16"	8"	10LB
7FT	7'- 3/16"	7'-0"	5'- 4"	10 3/16"	1'-8"	11LB
8FT	8'- 3/16"	8'-0"	6'- 8"	8 3/16"	1'-4"	13LB

Total Run Length

This system is not modular. Runs longer that 8FT will be automatically configured with left, intermediate and right sections, based on how you specify the TOTAL RUN LENGTH and MAXIMUM SECTION LENGTH parameters in the ordering information. Always order the total run length, not the individual sections.



Example: This run must be ordered as 1pc "S1LWID LLP 32FT MSL8..."



Example: If you order as 4pcs "S1LWID LLP 8FT MSL8... you will receive these INDIVIDUAL sections that cannot be joined together

Maximum Section Length

The run will be broken out using as many sections at the chosen MSL length as possible. Shorter sections will then complete the desired run length.

Examples:
S1LWID LLP 21FT MSL5... = 5FT / 4FT / 4FT / 4FT / 4FT
S1LWID LLP 21FT MSL6... = 6FT / 6FT / 5FT / 4FT
S1LWID LLP 21FT MSL7... = 7FT / 7FT / 7FT
S1LWID LLP 21FT MSL8... = 8FT / 8FT / 5FT

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INTELLIGENT LUMINAIRE CHARTS

Choose nomenclature from these columns

Driver Configurations

Minimum Dimming Level	Control Input	Driver	Dimming Range	Notes
MIN1	DALI	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, DALI controls and power supply supplied by others
MIN1	ZT	eldoLED DCDC DUALdrive	100 to 1%	Linear Dimming, supplied with leads for two independent zones of 0-10V
MIN1	NLIGHT	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, nIO EZDCA 16Z in head unit
MIN1	NLTAIR2	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, rIO EZDL in head unit with external antenna
DARK	DALI	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, DALI controls and power supply supplied by others
DARK	ZT	eldoLED DCDC DUALdrive	100 to 0.1%	Linear Dimming, supplied with leads for two independent zones of 0-10V
DARK	NLIGHT	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, nIO EZDCA 16Z in head unit
DARK	NLTAIR2	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, rIO EZDL in head unit with external antenna

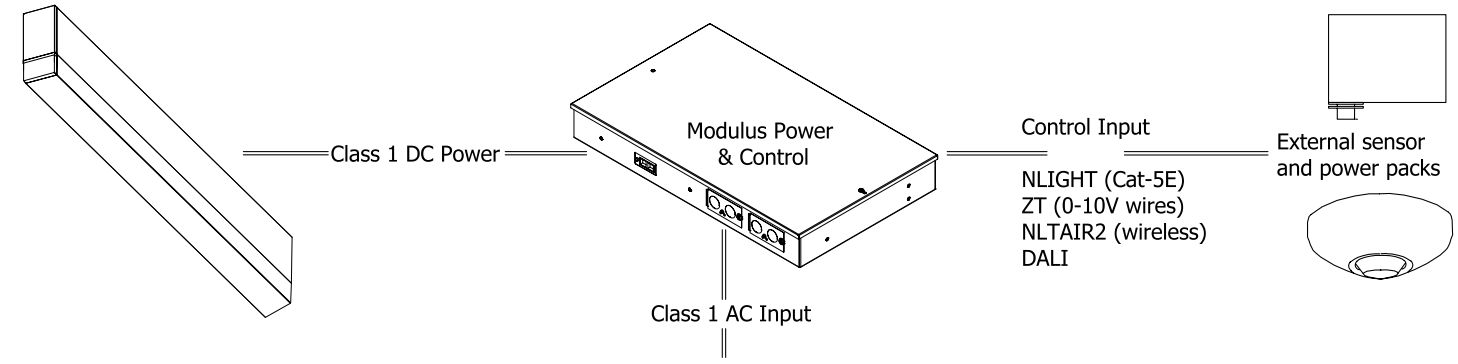
Control + Sensor Configuration

Control	Sensor	Sensor	Notes
NLIGHT +	VPIR15 ADC =	VERTEX 15F EZ ADC VLP	Only 5 sensors per Modulus driver unit. Zoning reconfigurable via Sensorview software.

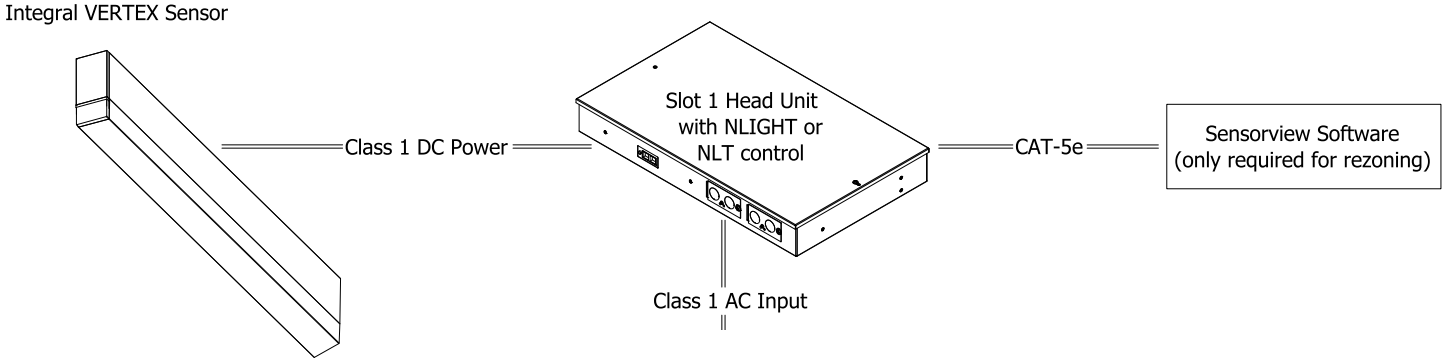
CONTROLS

Remote sensors can be paired with NLIGHT options to control your runs.

SLOT1 Luminaire



Slot 1 Luminaire with Integral VERTEX Sensor



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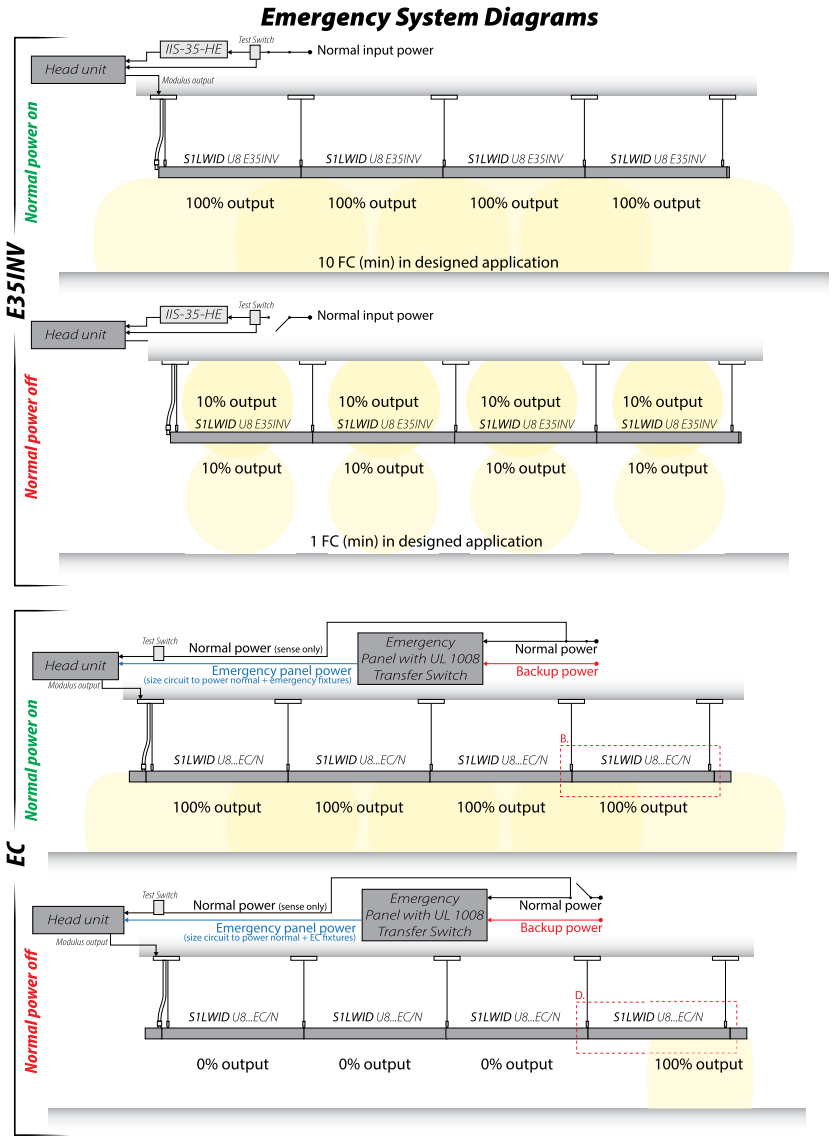
EMERGENCY OPTIONS

S1LWID

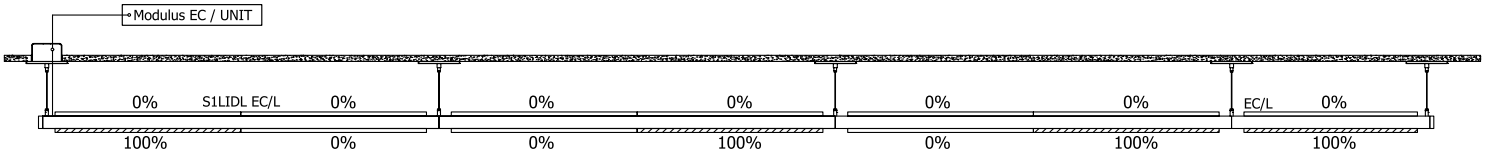
EC circuits default to the right side 4' section, of an 8' fixture (EC/R) and the complete section of a 4' fixture (EC/L).
Single EC circuit defaults to the last 4' of the run.
Two EC circuits default to the last 4' of the run and the first 4' of the run.
Additional circuits will be added from the end of the run using the last 4' of an 8' fixture or complete 4' fixtures.

EXAMPLES
Note that this example is for suspended, but the layouts apply to wall mount also.



S1LWID LLP...4EC

Default locations for multiple ECs.



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INTEGRATED SENSOR LAYOUT

CORRECT:

8FT MSL8 run with one sensor on the left VPIR15 ADC

8FT MSL8 run with one sensor on the right VPIR15 ADC

32FT MSL8 run with two sensors - 2VPIR15 ADC

32FT MSL8 run with four sensors - 4VPIR15 ADC

INCORRECT:

8FT MSL8 run with two sensor - 2VPIR15 ADC

Doesn't work because each luminaire supports only one sensor

8FT MSL8 run with one sensor - VPIR15 ADC

Doesn't work because sensor cannot be anywhere besides the ends of the luminaire

NOTES:
- 5 sensors max per Modulus driver unit
- Only 1 sensor per fixture
- Sensors appear as nLight devices and can be re-zoned in the field using Sensorview software
- Factory zoning isn't available with sensors since they can be re-zoned in the field using Sensorview
- Internal sensors are only available with NLIGHT and NLT control types

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SPECIFICATIONS

Housing
Nominal 3.125" x 1.5" extruded aluminum housing

Finish
White, Black or Silver powdercoat

Reflector
Formed steel with high reflectance white

Distribution/Shielding
Wall Graze (WG),Direct Asymmetric (DAS) or Asymmetric (AS) are available to provide precise distribution for specific applications. Shielding is available by using a Quiet Ceiling Baffle (not available with specific optics) that aids in hiding the light source from normal view.

LED Components
Linear: Nichia®- 757 series LED chips (>80 CRI)

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

Modulus Remote Power and Control System
Remote power source provides "natural dimming" with smooth, continuous and flicker-free dimming to dark (0.1%). Syncing for controls: 2mA max.

THD: <10%. Insignificant inrush current at 120 and 277VAC. FCC Class A and B tested for EMI and RFI. When NLIGHT or DALI is specified driver will be set for logarithmic dimming curve. If control Input of 0-10V is specified driver will be set for linear dimming curve.

Integrated digital nLight® module enables 4 channel wired networking via Cat-5e, when nLight® is selected. For daylight dimming and / or dual technology detection, see controls page for external sensor options.

Color Consistency
The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. The color a variation of no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

Driver
eldoLED® driver provides natural dimming with smooth, continuous and flicker-free deep dimming. Supports operation between 120 VAC and 277 VAC, with low inrush current (NEMA 410) and THD < 20%. Meets FCC Title 47 C.F.R. 15 Class A or Class B requirements. Lutron high performance driver options also available.

Acuity luminaires incorporating eldoLED LED drivers perform within the recommended operating areas for flicker as a function of frequency and modulation (%) outlined in IEEE Standard 1789-2015 (IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers), in typical operating conditions at representative dimming levels.

Certification
Tested to UL 2108 standards.

Warranty
5-year limited warranty. Complete warranty terms located at:
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.

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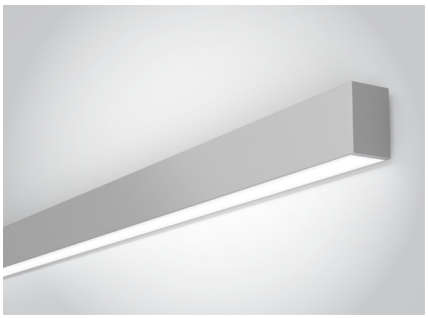
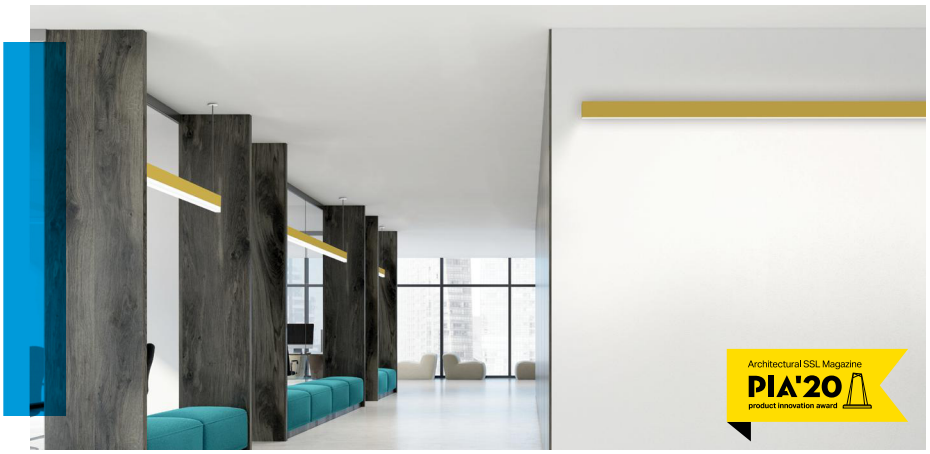
MARK ARCHITECTURAL LIGHTING

SPECIFICATIONS

TYPE: Type B4
Wall mnt. direct wall glazer

PROJECT: Stairwells





SLOT 1

DIRECT WALL

HIGHLIGHTS

- 200 to 1000 lumens per foot
- Up to 117 Lumens per Watt
- Three distributions: Lambertian, Wall Graze and Asymmetric
- Multiple lens treatment options include drop and edge view
- Shielding provided by integrated deep cell quiet ceiling baffle
- Powered and controlled by Modulus remote driver kit that combines all power and control system inputs into a single feed cord.
- Flicker free dimming to dark (0.01%) enabled by Modulus power and control architecture with integrated digital nLight® module for system networking
- Total System Integration features 5-year limited warranty by Acuity Brands, covers all components and construction

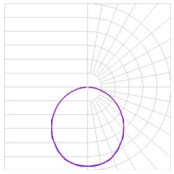
FIXTURE PERFORMANCE

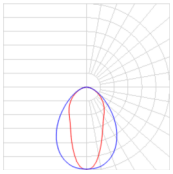
	Direct				
Nominal Lumens/Foot	200LMF	400LMF	600LMF	800LMF	1000LMF
Delivered Lumens/Foot	240	370	550	750	935
Input Watts/Foot*	2.06	3.27	5.08	7.27	9.45
Lumens/Watt	117	113	108	103	99
Well Glare Standard**	✓	✓	✗	✗	✗

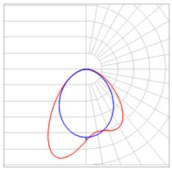
Based on a 4FT 35K fixture with standard lambertian distribution
**See driver box details for wattage consumption per driver box*
*** Based on WELL criteria for glare using the average illuminance (Cd/m2), use of baffles and other sheilding devices may affect outcome, different distributions affect outcome, see individual IES files for complete details.*

Declare. nLIGHT eldoLED

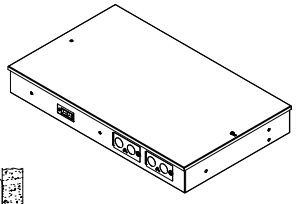
DIRECT DISTRIBUTION


Lambertian (no optic)

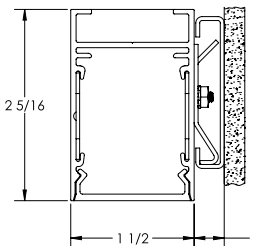

Wall Graze (WG)


Asymmetric (DAS)

DIMENSIONS



Section View



*For dimensions of head unit reference page 5.

DIFFUSERS/SHIELDING

Flush Lens

Quiet Ceiling Baffle

Edge View Lens

1/2" Drop Lens

1" Drop Lens

1-1/2" Drop Lens

AcuityBrands.

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ORDERING

Example: S1LWD LLP 32FT MSL8 90CRI 35K 800LMF MIN1 MVOLT WHT ZT

Series

S1LWD	Slot 1 Wall - Direct

Plan

LCB	Linear center balanced
LLP	Linear longest possible
LSL	Longest same length

Total Run Length

_FT	Specify continuous run length (in whole feet, 2' minimum)

Unit length may affect available options. 2' & 3' only available as individual units

For runs longer than 8FT: ALWAYS order the run by the TOTAL RUN LENGTH. Ordering the sections individually will not provide the correct joining hardware to allow connection in the field.

Max Section Length

MSL2	2'
MSL3	3'
MSL4	4'
MSL5	5'
MSL6	6'
MSL7	7'
MSL8	8'

Direct Light Source Color Rendering

90CRI	90 CRI

Direct LED Color Temp

27K	2700K
30K	3000K
35K	3500K
40K	4000K
50K	5000K

Direct LED Light Output

200LMF	200 lumens per FT
400LMF	400 lumens per FT
600LMF	600 lumens per FT
800LMF	800 lumens per FT
1000LMF	1000 lumens per FT
_LMF	# lumens per FT

Limited to 200LMF - 1000LMF in 50LMF increments

Direct Distribution (Optics)

(blank)	Standard lambertian distribution
WG	Wall graze distribution
DAS	Direct Asymmetric Distribution

Minimum Dimming Level

MIN1	Constant current, dimming to 1%
DARK	Constant current, dimming to 0.1%

Direct Shielding

(blank)	Flush lens
QCBFW	Quiet ceiling baffle, white
QCBFB	Quiet ceiling baffle, black
QCBFS	Quiet Ceiling Baffle, Specular Silver
DRP05	1/2" Drop lens
DRP1	1" Drop lens
DRP15	1 1/2" Drop lens
EGLD	Edge View direct lens

No shielding options available with optics WG, DAS.

Voltage

MVOLT	Multi-volt, 120-277
120	120V
277	277V
347	347V

347V is not available with E35INV, EC, WEC.

Finish

WHT	White (gloss)
BLK	Black (gloss)
SLV	Silver (gloss)
WHTT	White (textured)
BLKT	Black (textured)
SLVT	Silver (textured)
RALTBD	RAL paint finishes

RALTBD is for pricing only. Replace with applicable RAL number when placing order.

Emergency Options

(blank)	No Emergency Options
E35INV	35W Micro inverter
WEC	Emergency circuit for entire run
_EC	# of emergency circuits

MVOLT is not available with E35INV.

Control Input

ZT	0-10V control
NLIGHT	nLight enabled
NLTAIR2	nLight AIR (wireless) enabled
DALI	DALI compatible
ECOI	Lutron Ecosystem Interface

ZT is only available with 2 zones.

Primary Zone

(blank)	Select if single zone
NS_	Select if multi-zones required (with no sensors), call out length of zone in feet. Zones cannot end mid-fixture.
_VPIR15 ADC*	Vertex Daylight Dimming Sensor

Not available with ZT and DCT.
Not available with NLTAIR2

*Only available with NLIGHT. Not available with DRP05, DRP1, DRP15 or EGLD. Not available with Secondary or Tertiary zones. Only 1 sensor per fixture section.

Secondary Zone

(blank)	Select if single zone
SNS_	Select if secondary zone is required (with no sensors), call out length of zone in feet. Zones cannot end mid-fixture.

Not available with ZT and DCT.
Not available with NLTAIR2

Tertiary Zone

(blank)	Select if single zone
TNS_	Select if tertiary zone is required (with no sensors), call out length of zone in feet. Zones cannot end mid-fixture.

Not available with ZT and DCT.
Not available with NLTAIR2

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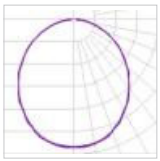
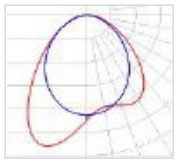
PHOTOMETRICS



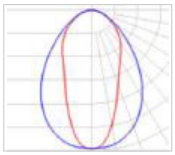
Test Report: ISF 201609P73
IES LM79-08
S1LD 4FT 90CRI 35K 1000LMF
Lumens: 3732.4
Wattage: 37.82
Efficacy: 98.69

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1,029.00	27.6%
0-40	1,672.00	44.8%
0-60	2,918.20	78.2%
60-90	814.3	21.8%
0-90	3,732.40	100.0%



Test Report: 13706636.01P93
IES LM79-08
S1LD 4FT 90CRI 35K 1000LMF DAS
Lumens: 3038.5
Wattage: 37.82
Efficacy: 80.34

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	981.6	32.30%
0-40	1,591.30	52.40%
0-60	2,581.90	85%
60-90	456.6	15%
70-100	177.1	5.80%
90-120	0	0%
0-90	3,038.50	100%
90-180	0	0%
0-180	3,038.50	100%



Test Report: ISF 201613P73
IES LM79-08
S1LD 4FT 90CRI 35K 1000LMF WG
Lumens: 3403.9
Wattage: 37.82
Efficacy: 90.00264

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1318.8	38.7%
0-40	1946.5	57.2%
0-60	2932.7	86.2%
60-90	471.2	13.8%
0-90	3403.9	100.0%

EXPECTED LIFE: L90 @ 60,000 HOURS
CALCULATED LIFE: L80 @ 120,000 HOURS

CCT SCALING CHART

CCT	CRI	MULTIPLIER
27K	90CRI	1
30K	90CRI	1.02
35K	90CRI	1.04
40K	90CRI	1.05
50K	90CRI	1.02

Lumen scaling charts can be used to approxiomate the lumen values at different Kelvin temperatures, color rendering indices, optics or sheilding. Example: Calculating the lumen change by adding the QCBFW baffle. Lumen output for S1LWD 4FT 1000LMF 35K; 3732.4 x 0.81 = 3023.24 lumens

OPTICAL SCALING CHARTS

DOWNLIGHT	
DISTRIBUTIONS	**MULTIPLIER**
LAMBERTIAN	1
DAS	0.81
SHEILDING	**MULTIPLIER**
QCBFW	0.81
QCBFB	0.52
QCBFS	0.67
DRP05	1.11
DRP1	1.13
DRP15	1.17
EGLD	1.08

**Base fixture with Lambertian distribution and flush lens*

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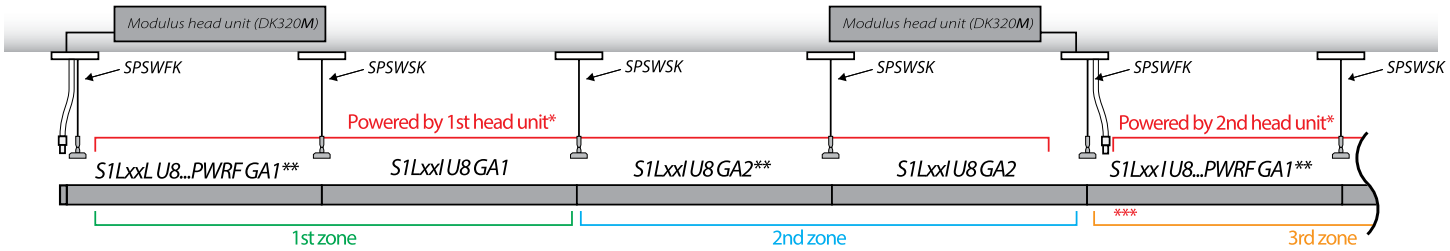
REMOTE MODULUS POWER AND CONTROL UNIT

RUN LAYOUT



**Number of fixtures that can be powered by a single head unit is a function of lumen package and desired control zones.*

*** Fixture zoning is done by digitally addressing drivers in the fixture - for example, "GA1" in the nomenclature means the drivers are factory-programmed to the first zone. Care should be taken when installing to place fixtures in the correct zone according to job drawings. Zone #s restart at each new head unit.*

**** Fixtures on separate head units should not be connected together - this is prevented by an FS/L or FS/R fixture having a harness connector that's incompatible with the right (or left) end harness on a standard fixture.*

ELEVATION VIEW

TYPICAL LUMINAIRE LAYOUT

(*HANGING POINTS CAN VARY BASED ON CONFIGURATIONS)

Slot 1 Head Unit Requirements							
Individual LED watts	**Indirect**						
	LMF	**0**	**400**	**600**	**800**	**1000**	**1200**
Direct	**0**	32ft	32ft	32ft	32ft	32ft	30ft
	200	32ft	32ft	30ft	22ft	18ft	18ft
	400	32ft	32ft	32ft	30ft	26ft	22ft
	600	32ft	32ft	30ft	26ft	22ft	18ft
	800	32ft	32ft	26ft	22ft	18ft	18ft
	1000	30ft	26ft	22ft	18ft	18ft	14ft

Footage indicates at what length, a new head unit will be required.

Each Modulus remote driver kit can power up to 32 linear feet of luminaires. Use table to calculate the number of remote driver units needed in a run or pattern by finding the intersection between your direct and indirect lumen outputs (If Indirect or Direct only, use the zero to represent the direction not applicable.).
Modulus units can be a maximum of 50 feet from the mounting junction box.

Control Types and Available Zones per Head Unit					
Control type	**Max addressable zones**	**nLight devices**	**Max sensors**	**nLight devices consumed with max sensors**	**Fixture zoning method**
nLight	16	17	5	22	Field programmed - Sensorview
Dali*	16	-	0	-	Field programmed - 3rd party DALI commissioning tool
ZT (0-10)	2	-	0	-	Factory programmed - use NS, SNS fields in order
NLTAIR2**	1	-	0	-	N/A (only one zone available)
TUWH NLT	8	17	5	-	Field programmed - Sensorview
TUWH ZT	1	-	0	22	N/A (only one zone available)
NLTAIR2 with ZT***	2	-	0	-	Factory programmed - Use NS, SNS fields in order
NLTAIR2 with TUWH ZT***	1	-	0	-	N/A (only one zone available)

**Class 1 DALI with no internal isolation from fixture run. Requires user-supplied DALI master controller and power supply*
***Uses factory-installed internal single-channel rIO*
***Requires 2x user-installed external rPP20D with 0-10V wiring into a standard ZT-type head unit. Order ZT or TUWH ZT fixtures and rPP separately

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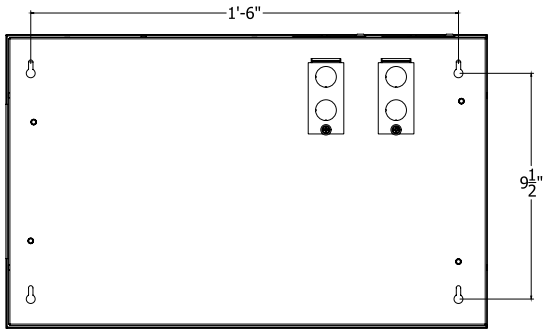
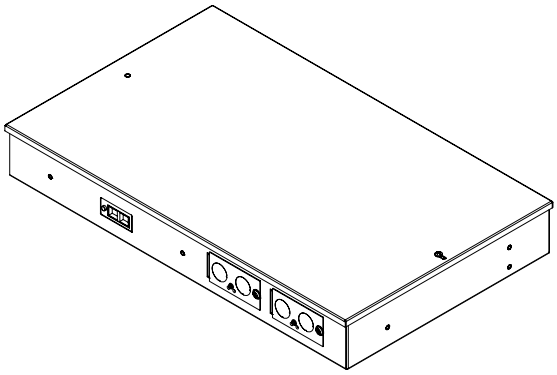
REMOTE MODULUS POWER & CONTROL UNIT

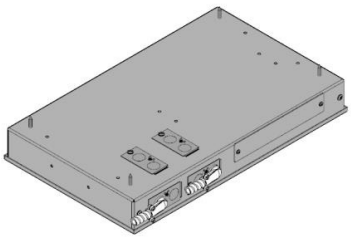
F2 UNIT DETAIL

MOUNTING LOCATIONS

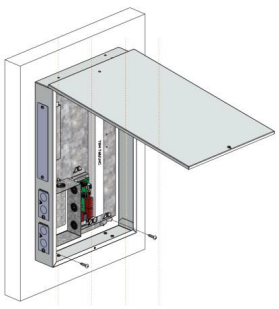


OVERALL DIMENSIONS
1'-8¼" x 1'-⅜" x 2 ⅝"





F2 CEILING MOUNT



F2 WALL MOUNT

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LINEAR PLAN

Mark Lighting offers the ability to provide a continuous run plan to suit your requirements by optionally offering three different methods of configuration.

LLP- Linear Longest Possible

In this configuration, the longest length available is optimized, resulting in the fewest segments and mounting locations. Caution should be used where balanced appearance is a concern. Example: 20 FT run would have 2, 8 FT segments and 1, 4 FT segment at the end of the run.

LLP	8 FT	8 FT	4FT

LCB- Linear Center Balanced:

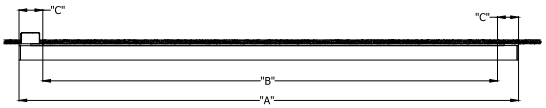
This configuration incorporates the longest center segment(s) along with any additional lengths required to fill the run length, added to the run ends. Example: 16 FT run would have 2, 4 FT segments (one at each end) and 1, 8 FT segment in the center.

LCB	4 FT	8 FT	4FT

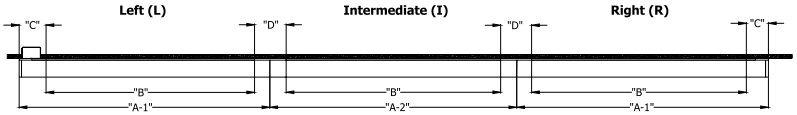
LSL- Linear Same Length:

In this configuration, each segment is the same length and is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length and there are mathematical limitations on what overall row lengths can be achieved. Example: 20 FT row would be achieved with 5, 4 FT long segments equaling 20 FT (nominal).

LSL	4FT	4FT	4FT	4FT	4FT



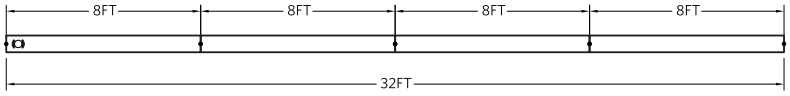
INDIVIDUAL FIXTURES				
ORDERED LENGTH	"A" O.A.L.	"B" O.C.	"C" FROM END	APPROX. WEIGHT
2FT	2'- 3/8"	1'- 4"	4 3/16"	3LB
3FT	3'- 3/8"	1'- 4"	10 3/16"	5LB
4FT	4'- 3/8"	2'- 8"	8 3/16"	7LB
5FT	5'- 3/8"	4'	6 3/16"	8LB
6FT	6'- 3/8"	5'- 4"	4 3/16"	10LB
7FT	7'- 3/8"	5'- 4"	10 3/16"	11LB
8FT	8'- 3/8"	6'- 8"	8 3/16"	13LB



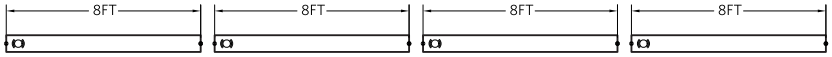
RUN LAYOUT						
ORDERED LENGTH	"A-1" O.A.L.	"A-2" O.A.L.	"B" MOUNT POINT	"C" FROM END	"D"	APPROX. WEIGHT
4FT	4'- 3/16"	4'-0"	2'- 8"	8 3/16"	1'-4"	7LB
5FT	5'- 3/16"	5'-0"	4'	6 3/16"	1'	8LB
6FT	6'- 3/16"	6'-0"	5'- 4"	4 3/16"	8"	10LB
7FT	7'- 3/16"	7'-0"	5'- 4"	10 3/16"	1'-8"	11LB
8FT	8'- 3/16"	8'-0"	6'- 8"	8 3/16"	1'-4"	13LB

Total Run Length

This system is not modular. Runs longer that 8FT will be automatically configured with left, intermediate and right sections, based on how you specify the TOTAL RUN LENGTH and MAXIMUM SECTION LENGTH parameters in the ordering information. Always order the total run length, not the individual sections.



Example: This run must be ordered as 1pc "S1LWD LLP 32FT MSL8..."



Example: If you order as 4pcs "S1LWD LLP 8FT MSL8... you will receive these INDIVIDUAL sections that cannot be joined together

Maximum Section Length

The run will be broken out using as many sections at the chosen MSL length as possible. Shorter sections will then complete the desired run length.

Examples:
S1LWD LLP 21FT MSL5... = 5FT / 4FT / 4FT / 4FT / 4FT
S1LWD LLP 21FT MSL6... = 6FT / 6FT / 5FT / 4FT
S1LWD LLP 21FT MSL7... = 7FT / 7FT / 7FT
S1LWD LLP 21FT MSL8... = 8FT / 8FT / 5FT

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INTELLIGENT LUMINAIRE CHARTS

Choose nomenclature from these columns

Driver Configurations

Minimum Dimming Level	Control Input	Driver	Dimming Range	Notes
MIN1	DALI	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, DALI controls and power supply supplied by others
MIN1	ZT	eldoLED DCDC DUALdrive	100 to 1%	Linear Dimming, supplied with leads for two independent zones of 0-10V
MIN1	NLIGHT	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, nIO EZDCA 16Z in head unit
MIN1	NLTAIR2	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, rIO EZDL in head unit with external antenna
DARK	DALI	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, DALI controls and power supply supplied by others
DARK	ZT	eldoLED DCDC DUALdrive	100 to 0.1%	Linear Dimming, supplied with leads for two independent zones of 0-10V
DARK	NLIGHT	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, nIO EZDCA 16Z in head unit
DARK	NLTAIR2	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, rIO EZDL in head unit with external antenna

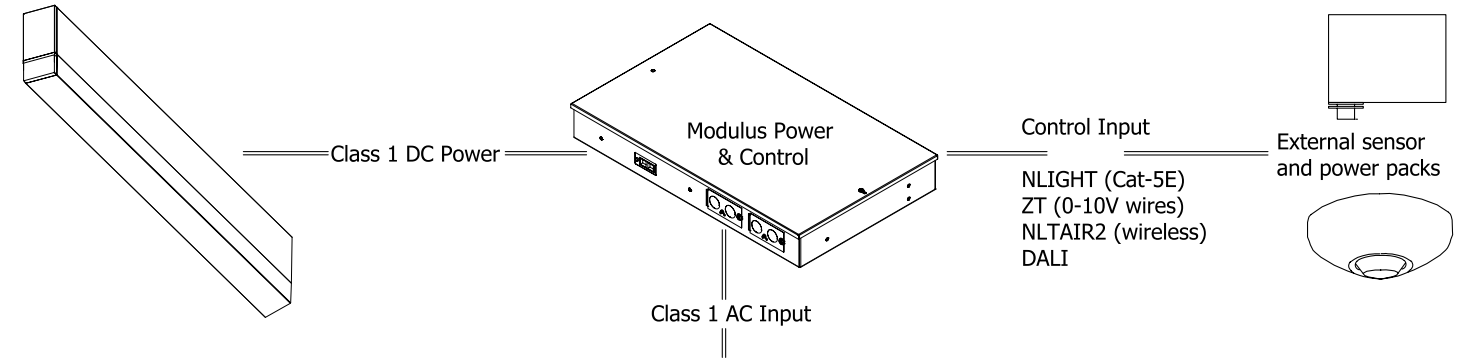
Control + Sensor Configuration

Control	Sensor	Sensor	Notes
NLIGHT +	VPIR15 ADC =	VERTEX 15F EZ ADC VLP	Only 5 sensors per Modulus driver unit. Zoning reconfigurable via Sensorview software.

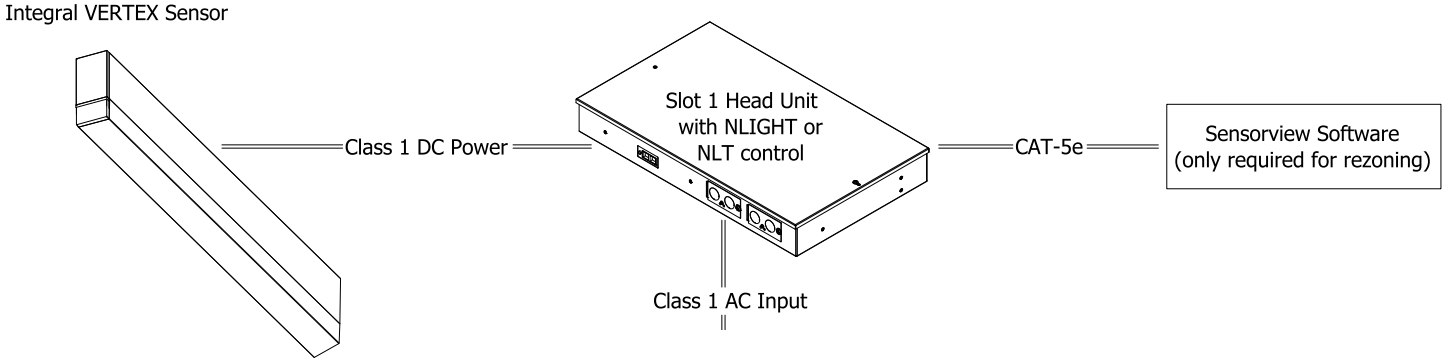
CONTROLS

Remote sensors can be paired with NLIGHT options to control your runs.

SLOT1 Luminaire



Slot 1 Luminaire with Integral VERTEX Sensor



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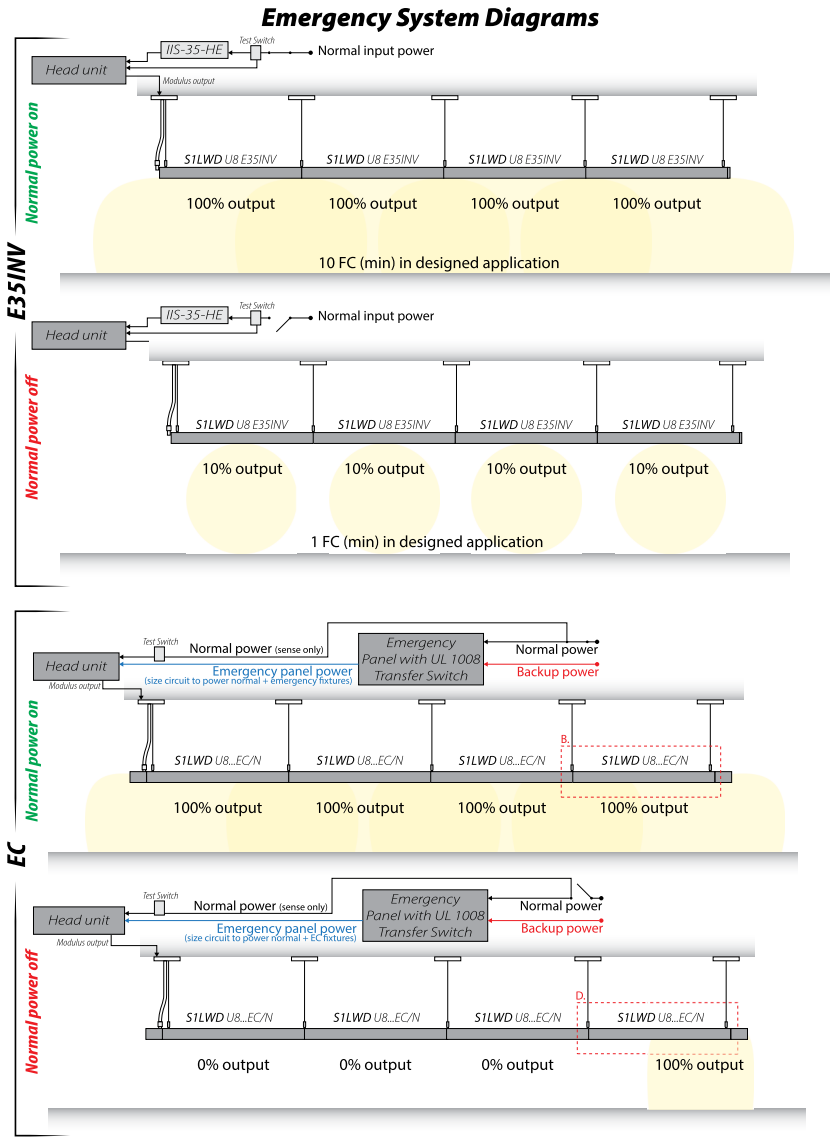
EMERGENCY OPTIONS

S1LWD

EC circuits default to the right side 4' section, of an 8' fixture (EC/R) and the complete section of a 4' fixture (EC/L).
Single EC circuit defaults to the last 4' of the run.
Two EC circuits default to the last 4' of the run and the first 4' of the run.
Additional circuits will be added from the end of the run using the last 4' of an 8' fixture or complete 4' fixtures.

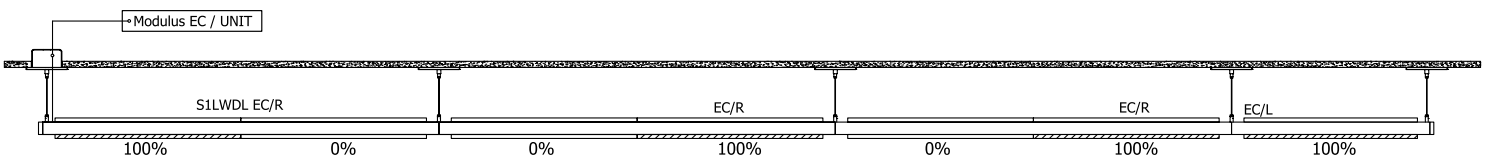
EXAMPLES

*Note that this example is for suspended, but the layouts apply to the wall mount product.



S1LWD LLP...4EC

Default locations for multiple ECs.



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INTEGRATED SENSOR LAYOUT

CORRECT:

8FT MSL8 run with one sensor on the left VPIR15 ADC

8FT MSL8 run with one sensor on the right VPIR15 ADC

32FT MSL8 run with two sensors - 2VPIR15 ADC

32FT MSL8 run with four sensors - 4VPIR15 ADC

INCORRECT:

8FT MSL8 run with two sensor - 2VPIR15 ADC

Doesn't work because each luminaire supports only one sensor

8FT MSL8 run with one sensor - VPIR15 ADC

Doesn't work because sensor cannot be anywhere besides the ends of the luminaire

NOTES:

- 5 sensors max per Modulus driver unit
- Only 1 sensor per fixture
- Sensors appear as nLight devices and can be re-zoned in the field using Sensorview software
- Factory zoning isn't available with sensors since they can be re-zoned in the field using Sensorview
- Internal sensors are only available with NLIGHT and NLT control types

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SPECIFICATIONS

Housing
Nominal 2.3125" x 1.5" extruded aluminum housing

Finish
White, Black or Silver powdercoat

Reflector
Formed steel with high reflectance white

Distribution/Shielding
Wall Graze (WG) and Direct Asymmetric (DAS) are available to provide precides distribution for specific applications. Shielding is available by using a Quiet Ceiling Baffle (not available with specific optics) that aids in hiding the light source from normal view.

LED Components
Linear: Nichia®- 757 series LED chips (>80 CRI)

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

Modulus Remote Power and Control System
Remote power source provides "natural dimming" with smooth, continuous and flicker-free dimming to dark (0.1%). Syncing for controls: 2mA max.

THD: <10%. Insignificant inrush current at 120 and 277VAC. FCC Class A and B tested for EMI and RFI. When NLIGHT or DALI is specified driver will be set for logarithmic dimming curve. If control Input of 0-10V is specified driver will be set for linear dimming curve.

Integrated digital nLight® module enables 4 channel wired networking via Cat-5e, when nLight® is selected. For daylight dimming and / or dual technology detection, see controls page for external sensor options.

Color Consistency
The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. The color a variation of no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

Driver
eldoLED® driver provides natural dimming with smooth, continuous and flicker-free deep dimming. Supports operation between 120 VAC and 277 VAC, with low inrush current (NEMA 410) and THD < 20%. Meets FCC Title 47 C.F.R. 15 Class A or Class B requirements. Lutron interface module is also available.

Acuity luminaires incorporating eldoLED LED drivers perform within the recommended operating areas for flicker as a function of frequency and modulation (%) outlined in IEEE Standard 1789-2015 (IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers), in typical operating conditions at representative dimming levels.

Certification
Tested to UL 2108 standards.

Warranty
5-year limited warranty. Complete warranty terms located at:
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.

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PHILIPS LIGHTOLIER

Downlighting

SlimSurface LED

5" and 7" round aperture surface mount downlight

SlimSurface LED is a 5/8" thick surface mounted luminaire with the appearance of a recessed downlight. Easy to install into most standard j-boxes, the SlimSurface LED round apertures are available in a 5" 650 lm and 7" 1000 lm fixture.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

example: S5R830K7AL

Family	CRI	CCT	Lumens	Finish	Dimming
S5R Slim 5" Round	**8** 80 **9** 90[1]	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K	**7** 650 lm	**blank** White **AL** Aluminum **BK** Black	**blank** Triac 120V
				W White **AL** Aluminum **BK** Black	**Z10U** 0-10V 120V-277V
	8 80	**30K** 3000K	**7** 650 lm	**blank** White	**blank** Triac 120V
S7R Slim 7" Round	**8** 80 **9** 90[1]	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K	**10** 1000 lm	**blank** White **AL** Aluminum **BK** Black	**blank** Triac 120V
				W White **AL** Aluminum **BK** Black	**Z10U** 0-10V 120V-277V
	8 80	**30K** 3000K	**10** 1000 lm	**blank** White	**blank** Triac 120V

White

Black

Aluminum

1. 90 CRI is only available with 2700K

Features

1. **Flange:** One piece plastic flange. Injection molded white, applied aluminum, or black.
2. **Lens:** High transmittance lens allowing for smooth, comfortable light pattern.
3. **Power supply:** Integral class 2 driver. Factory wired electronic LED driver (see Electrical section for specifications)
4. **LED Strip:** Utilizes Philips LEDs.
5. **Lifetime:** Expected lifetime 50,000 hours and backed by a 5-year warranty (see Philips.com/warranties for details).
6. **Compliance:** Non-conductive fixture for shower light application. The 7" round product complies with the requirements of the California Energy Commission regulated under Title 24, and has been listed in the Title 20 database.

Electrical

Electronic power supply: RoHS compliant. Class 2 power unit. Unit tolerates sustained open circuit and short circuit output conditions without damage.

Dimming: Intended for TRIAC, ELV, and 0-10V dimming based on the configuration. Please refer to LED-DIM spec sheet for more details.

Labels

cULus listed for wet locations (covered ceilings). ENERGY STAR® certified.

Electrical specifications	Dimming	Input volts	Input frequency	Input current	Input Power	THD Factor	Power Factor	Minimum Operating Temp.
Slim 5" 630lm	Triac & ELV	120V	50/60Hz	0.08A	9.5W	<15%	>0.9	-20°C
	0-10V	120V	50/60Hz	0.09A	10.1W	<20%	>0.9	-20°C
		277V	50/60Hz	0.04A	10.2W	<20%	>0.9	-20°C
Slim 7" 980lm	Triac & ELV	120V	50/60Hz	0.13A	14.2W	<15%	>0.9	-20°C
	0-10V	120V	50/60Hz	0.12A	14.4W	<20%	>0.9	-20°C
		277V	50/60Hz	0.06A	14.7W	<20%	>0.9	-20°C

c UL us LISTED

ENERGY STAR

S5R & S7R SlimSurface LED

5" and 7" round aperture surface mount downlight

Compatibility

Fire Rating installation; Fire Rating is per the ratting of the ceiling and application junction boxes, not the SlimSurface downlight luminaires.

3½" round (plastic)

4" square (plastic)
Not compatible with S5R

4" octagonal (metal)

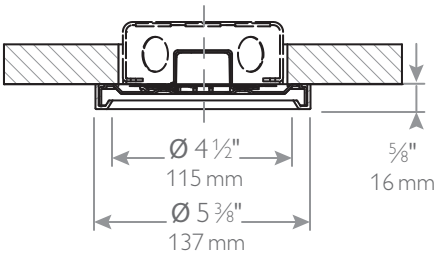
4" square (metal)
Not compatible with S5R

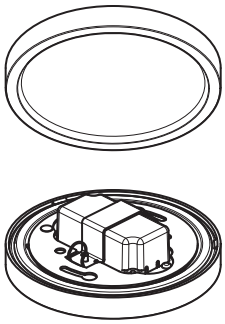
Note: 2 1/8" deep octagon junction box recommended for through circuit wiring applications.

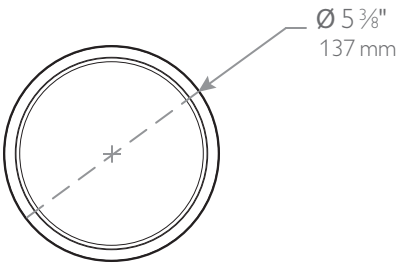
* Fire rated classification is per the ceiling and junction box ratings.

Dimensions

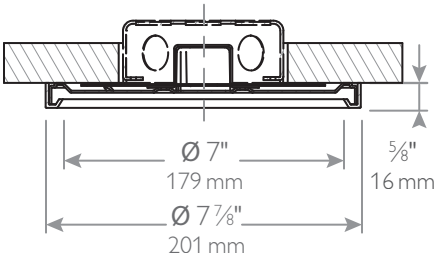
SlimSurface LED 5" downlight

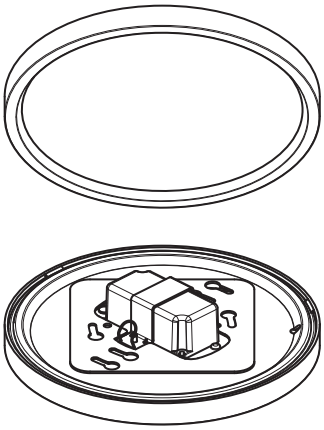


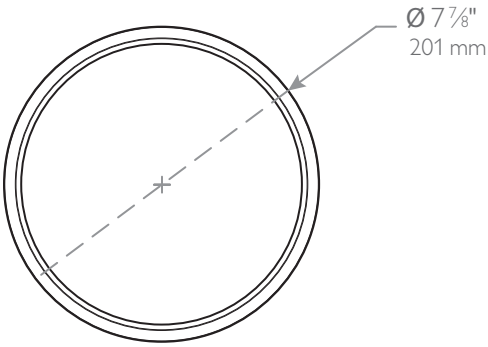




SlimSurface LED 7" downlight





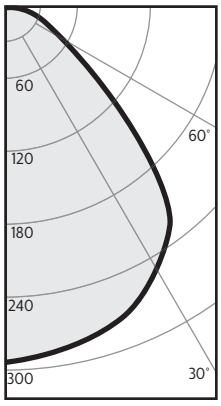


S5R & S7R SlimSurface LED

5" and 7" round aperture surface mount downlight

S5R830K7 • 10 W LED, 3000 K, 80 CRI

Candela Curves



Angle	Mean CP	Lumens
0	294	
5	291	28
10	286	
15	282	80
20	276	
25	265	122
30	253	
35	236	147
40	211	
45	157	121
50	108	
55	74	68
60	53	
65	39	40
70	30	
75	22	23
80	14	
85	5	6
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5′	12	6.5′
6′	8	7.8′
7′	6	9.1′
8′	5	10.4′
9′	4	11.7′

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

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5′	26.7	0.43
6′	17.5	0.29
7′	12.5	0.20
8′	10.4	0.17
9′	8.4	0.14

38′x38′x10′ Room, Workplane 2.5′ above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	104	98	100	95	96	92	87
2	102	95	89	84	93	83	90	81	87	80	76
3	94	85	78	72	84	72	81	71	78	69	66
4	87	77	69	63	75	63	73	62	71	61	58
5	81	69	61	55	68	55	66	55	64	54	52
6	75	63	55	49	62	49	61	49	59	48	46
7	70	58	50	44	57	44	55	44	54	43	41
8	65	53	45	40	52	40	51	39	50	39	37
9	61	49	41	36	48	36	47	36	46	36	34
10	58	45	38	33	45	33	44	33	43	33	31

Room Cavity Ratio

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	230	36.2%
0-40	377	59.3%
0-60	566	89.2%
0-90	635	100.0%

CRI and CCT adjustment factors

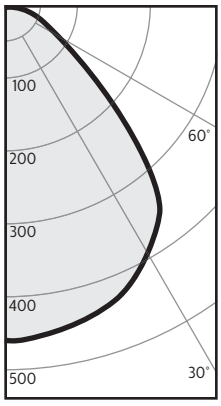
90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

Report[1]: 438GFR

Output lumens:	625 lms	Input Watts[2]:	9.8 W
Spacing Criterion:	1.3	Efficacy:	64.8 lm/w
Field Angle:	141°	CCT[3]:	3000 K
Beam Angle:	92°	CRI:	>80

S7R830K10 • 14 W LED, 3000 K, 80 CRI

Candela Curves



Angle	Mean CP	Lumens
0	461	
5	457	43
10	450	
15	444	125
20	433	
25	415	192
30	395	
35	365	227
40	322	
45	235	182
50	161	
55	111	102
60	80	
65	59	60
70	45	
75	34	36
80	22	
85	10	11
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5′	18	6.5′
6′	13	7.8′
7′	9	9.1′
8′	7	10.4′
9′	6	11.7′

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

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5′	41.2	0.61
6′	27.0	0.40
7′	19.3	0.29
8′	16.1	0.24
9′	12.9	0.19

38′x38′x10′ Room, Workplane 2.5′ above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	104	98	100	95	96	92	87
2	102	95	89	84	93	83	90	82	87	80	76
3	94	85	78	73	84	72	81	71	78	70	66
4	87	77	69	63	76	63	73	62	71	61	59
5	81	70	62	56	69	56	67	55	65	54	52
6	75	63	55	50	63	49	61	49	59	49	46
7	70	58	50	44	57	44	56	44	54	44	42
8	66	53	46	40	53	40	51	40	50	40	38
9	62	49	42	36	49	36	48	36	47	36	34
10	58	46	38	33	45	33	44	33	43	33	31

Room Cavity Ratio

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	360	36.9%
0-40	587	60.1%
0-60	871	89.2%
0-90	977	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

Report[1]: 441GFR

Output lumens:	977 lms	Input Watts[2]:	13.8 W
Spacing Criterion:	1.3	Efficacy:	70.8 lm/w
Field Angle:	140°	CCT[3]:	3000 K
Beam Angle:	91°	CRI:	>80

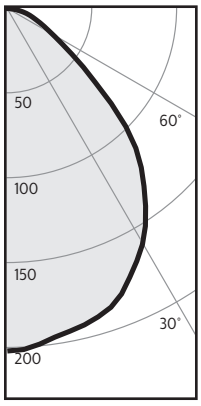
1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

S5R & S7R SlimSurface LED

5" and 7" round aperture surface mount downlight

S5R927K7 • 10 W LED, 2700 K, 90 CRI

Candela Curves



Angle	Mean CP	Lumens
0	222	
5	219	21
10	213	
15	207	58
20	197	
25	181	83
30	163	
35	141	88
40	119	
45	88	68
50	60	
55	41	38
60	30	
65	22	22
70	17	
75	13	13
80	8	
85	3	4
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5′	9	5.5′
6′	6	6.6′
7′	5	7.7′
8′	3	8.8′
9′	3	9.9′

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

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5′	16.8	0.43
6′	11.0	0.28
7′	7.9	0.20
8′	6.6	0.17
9′	5.2	0.13

38′x38′x10′ Room, Workplane 2.5′ above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	104	100	105	99	101	96	97	93	88
2	103	96	90	86	94	85	91	83	88	81	77
3	95	86	80	74	85	74	82	72	80	71	68
4	89	78	71	65	77	65	75	64	72	63	60
5	82	71	63	58	70	57	68	57	66	56	54
6	77	65	57	52	64	52	63	51	61	51	48
7	72	60	52	47	59	47	58	46	56	46	44
8	67	55	48	42	55	42	53	42	52	42	40
9	63	51	44	39	51	39	50	38	48	38	36
10	60	48	40	36	47	36	46	35	45	35	34

Room Cavity Ratio

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	162	41.1%
0-40	250	63.4%
0-60	356	90.0%
0-90	395	100.0%

CRI and CCT adjustment factors

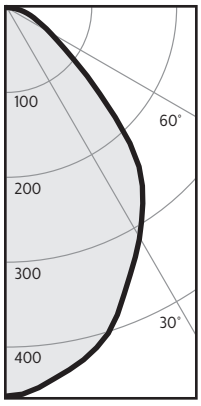
90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

Report[1]: 683GFR

Output lumens:	395 lms	Input Watts[2]:	9.7 W
Spacing Criterion:	1.1	Efficacy:	40.7 lm/w
Field Angle:	130°	CCT[3]:	2700 K
Beam Angle:	82°	CRI:	>90

S7R927K10 • 14 W LED, 2700 K, 90 CRI

Candela Curves



Angle	Mean CP	Lumens
0	443	
5	435	41
10	419	
15	401	113
20	374	
25	338	156
30	308	
35	276	172
40	241	
45	178	137
50	120	
55	83	76
60	60	
65	46	46
70	35	
75	27	28
80	18	
85	8	9
90	0	

Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5′	18	5.5′
6′	12	6.6′
7′	9	7.7′
8′	7	8.8′
9′	5	9.9′

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

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5′	32.9	0.63
6′	21.6	0.41
7′	15.4	0.30
8′	12.9	0.25
9′	10.3	0.20

38′x38′x10′ Room, Workplane 2.5′ above floor, 80/50/20% Reflectances

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
0	119	119	119	119	116	116	111	111	106	106	100
1	111	107	103	100	104	98	100	95	96	92	88
2	102	96	90	85	94	84	90	82	87	80	77
3	95	86	79	73	84	73	82	72	79	70	67
4	88	78	70	64	76	64	74	63	72	62	60
5	82	71	63	57	70	57	68	56	66	56	53
6	76	65	57	51	64	51	62	50	60	50	48
7	71	59	51	46	58	46	57	46	56	45	43
8	67	55	47	42	54	42	53	41	52	41	39
9	63	51	43	38	50	38	49	38	48	38	36
10	59	47	40	35	47	35	46	35	45	35	33

Room Cavity Ratio

Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	310	39.8%
0-40	482	61.9%
0-60	696	89.3%
0-90	779	100.0%

CRI and CCT adjustment factors

90 CRI 2700K = 84%
80 CRI 2700K = 100%
80 CRI 3000K = 100%
80 CRI 3500K = 105%
80 CRI 4000K = 109%

Report[1]: 681GFR

Output lumens:	779 lms	Input Watts[2]:	14.2 W
Spacing Criterion:	1.1	Efficacy:	54.8 lm/w
Field Angle:	132°	CCT[3]:	2700 K
Beam Angle:	83°	CRI:	>90

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Wattage: controlled to within 5%
3. Correlated Color Temperature: within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

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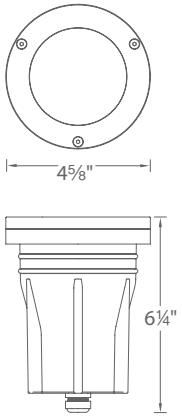
Philips Lighting North America Corporation
200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

Philips Lighting Canada Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008

3" INGROUND 120V

5032

WAC LANDSCAPE LIGHTING



Fixture Type: L1/L2

Catalog Number:

Project:

Location:

PRODUCT DESCRIPTION

Landscape Wall Wash luminaire

FEATURES

- Adjustable beam angle
- Integral dimmer
- IP67 rated, protected from temporary immersion under water
- Drive over up to 4500lbs
- Solid diecast brass or corrosion resistant aluminum
- Available concrete pour kit
- 6' lead wire and wire nuts included
- Maintains constant lumen output against voltage drop
- UL 1598 listed
- Not suitable to use with external dimmers

SPECIFICATIONS

Input: 110V - 120VAC
Power: 3W to 11.5W
Brightness: 65 lm to 515 lm
Beam Angle: 15° to 60°
CRI: 85
Rated Life: 45,000 hours

ORDERING NUMBER

		Color Temp		Finish	
5032	*3" Inground 120V*	**30**	*3000K*	**BZ** **BBR**	*Bronze on Aluminum* *Bronze on Brass*

5032-30____

Example: **5032-30BBR**

waclighting.com
Phone (800) 526.2588
Fax (800) 526.2585

Headquarters/Eastern Distribution Center
44 Harbor Park Drive
Port Washington, NY 11050

Central Distribution Center
1600 Distribution Ct
Lithia Springs, GA 30122

Western Distribution Center
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Ontario, CA 91760

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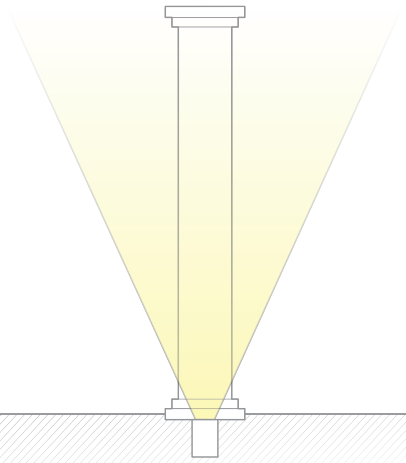
3" INGROUND 120V

5032

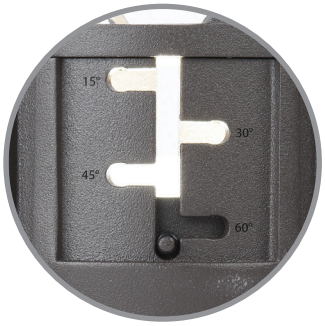
WAC

LANDSCAPE LIGHTING



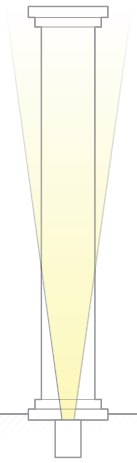
Typical Inground

Most light output goes into the air, causing light pollution



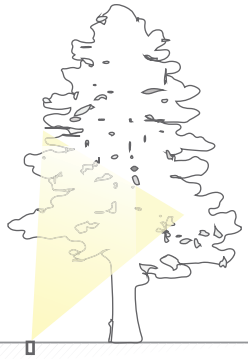
Adjust Beam Angles

Presets at 15°, 30°, 45°, 60°



Adjustable WAC Inground

Adjust the light to where you need it



Control Brightness

Adjustable from 65lm to 515lm

Presets Comparable to

10W, 25W, 35W, 50W, 75W Halogen source

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3" INGROUND 120V

5032

WAC LANDSCAPE LIGHTING

Rock Guard

Protects the fixture face

5030-GRD-BZ
Bronze on Aluminum

5030-GRD-BBR
Bronze on Brass

Optics

Enhances saturation of florals and foliage

LENS-25-AMB
Amber

LENS-25-RED
Red

LENS-25-FR
Frosted

LENS-25-GRN
Green

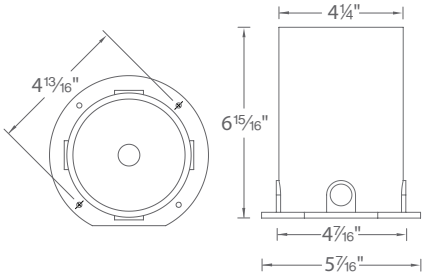
LENS-25-BLU
Blue

LENS-25-HCL
Honeycomb Louver
Reduces glare

Concrete Pour Kit

For installation in concrete
Five ½" NPT threaded holes, PC

5030-PIP-PVC
Shown with temporary dense foam cap



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R4RD2L, R4SD2L

4.5" Volta - Downlight Trimless

WAC LIGHTING
Responsible Lighting®

Fixture Type: L4

Catalog Number:

Project:

Location:

PRODUCT DESCRIPTION

Volta LED downlight series represents an innovation in design and technology for architectural lighting. This high lumen and adaptable family of fixtures with a comprehensive set of round and square fittings, affords a sustainable solution for commercial, corporate, and upscale residential applications.

FEATURES

- 2" lens regress for superior glare control
- Field selectable light engine height for cut-off angle adjustment (30° - 34°) and accessory use
- Integral patterned tempered trim lens included standard
- Compatible with wide range of accessories
- 5 year WAC Lighting product warranty

SPECIFICATIONS

Construction: Durable die-cast aluminum construction

Input: Universal 120 - 277V AC 50/60 Hz

Dimming: Electronic Low Voltage (ELV): 100%-5%
0-10V: 100%-0%
Lutron Hi-Lume 1% Ecosystem Fade-to-Black option

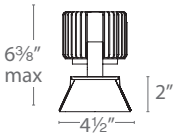
Light Source: High output 3-step Mac Adam Ellipse COB
Rated life of 50,000 hours at L70

Mounting: Heavy gauge retention clips support trim firmly. Safety cabling standard.
Ceiling cut out (Round): Ø 5 1/8"
Ceiling cut out (Square): 5 1/8" x 5 1/8"
Accomodates 1/2 "- 1 1/2" ceiling thickness

Finish: Electrostatically powder coated White, Black. Enamel coated Haze.
Plated and brushed Bronze

Standards: ETL & cETL Wet location Listed, Energy Star® 2.0, Title 24 JA8-2016 Compliant

TRIMS (ORDER HOUSING SEPARATELY)



Model		Beam Angle	Reference Output* Lumens	CBCP	Lumen/Watt
R4RD2L *Round*	**S**	*15°*	*1405*	*11420*	*65*
	N	*25°*	*3145*	*9615*	*94*
	F	*45°*	*3025*	*5005*	*90*
	W	*60°*	*2895*	*3125*	*85*
R4SD2L *Square*	**S**	*15°*	*1440*	*11985*	*66*
	N	*25°*	*3350*	*9820*	*99*
	F	*45°*	*3200*	*4935*	*95*
	W	*60°*	*3060*	*3055*	*90*

Color Temp		CRI
827	*2700K*	*85*
927	*2700K*	*90*
830	*3000K*	*85*
930	*3000K*	*90*
835	*3500K*	*85*
840	*4000K*	*85*

Finishes	Reflector/Trim
BK *Black*	
HZ *Haze*	
WT *White*	
CB *Bronze*	

*Reference output shows **830**(85CRI 3000K) trim with **36** housing. Use multiplier table below to determine the output for other combinations.

Multiplier		TRIM 827	927	830	930	835	840
HOUSING	**36**	0.95	0.81	1.00	0.86	1.05	1.07
	25	0.66	0.56	0.69	0.59	0.73	0.74
	15	0.43	0.37	0.45	0.39	0.48	0.49

R4__D2L-_____-_____

Example: **R4RD2L-S827-WT**

Please see next page for housing units(required)

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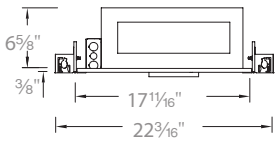
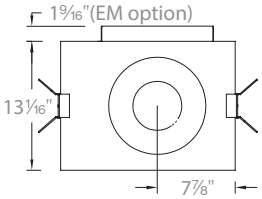
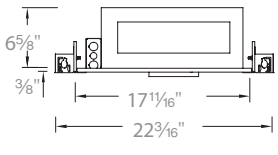
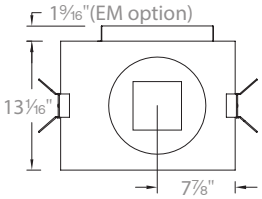
R4RD2L, R4SD2L

4.5" Volta - Downlight Trimless

WAC LIGHTING
Responsible Lighting®

HOUSINGS (REQUIRED)

		Model	Power*	S	N, F, W	Rating	Driver		Emergency Backup
Round New Construction 		**R4RNL** *Airtight* **R4RCL** *Airtight, Chicago Plenum*	**15** **25** **36**	*10W* *15W* *22W*	*15W* *23W* *34W*	*IC rated* *IC rated* *Non-IC*	**DEFAULT** **L1**	*ELV, 0-10V* *Lutron Hi-Lume 1%*	**EM**
Square New Construction 		**R4SNL** *Airtight,* **R4SCL** *Airtight, Chicago Plenum*	**15** **25** **36**	*10W* *15W* *22W*	*15W* *23W* *34W*	*IC rated* *IC rated* *Non-IC*	**DEFAULT** **L1**	*ELV, 0-10V* *Lutron Hi-Lume 1%*	**EM**

*Power consumption depends on beam angle of the trim.

Field Replaceable Driver

D-R4N-15	Driver for 15W New Construction Hsg
D-R4N-25	Driver for 23W New Construction Hsg
D-R4N-36	Driver for 34W New Construction Hsg

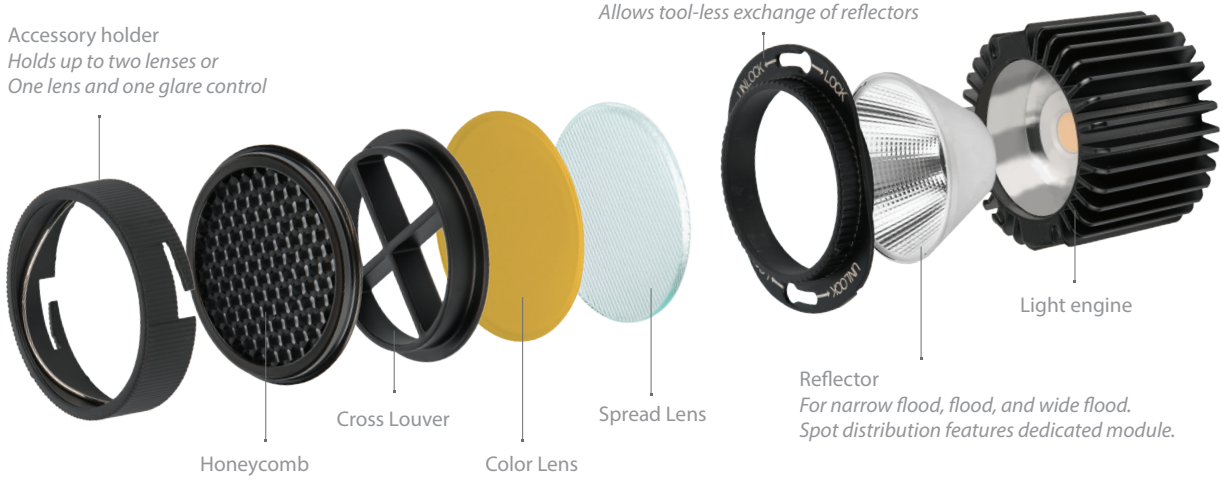
R4_____-_____
Example: **R4RNL-15** or **R4RNL-15EM** (with Emergency backup battery)

Trimless housings come included with die-cast spackle frame.

FIELD CHANGEABLE GLARE CONTROL AND OPTIC SYSTEM

Accessory holder
Holds up to two lenses or
One lens and one glare control

Optical cartridge
Allows tool-less exchange of reflectors



Accessory holder

LENS-73-HLD	Required to hold lens and glare control accessories

Glare control accessories

LENS-73-HCL	Honeycomb Louver
LENS-73-CRL	Cross Louver

Lens

LENS-73-AMB	Amber lens
LENS-73-RED	Red lens
LENS-73-FR	Frosted lens
LENS-73-SPR	Spread lens
LENS-73-BEL	Beam Elongating

Interchangable Reflector

REF-R4-N	Narrow Flood beam reflector
REF-R4-F	Flood beam reflector
REF-R4-W	Wide beam reflector

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QUIX™

LINKABLE LED FIXTURE | 120-277 VOLT | 0-10V DIMMING

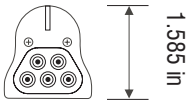
Fixture Type: U1

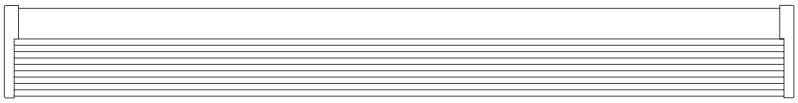
Project: _____

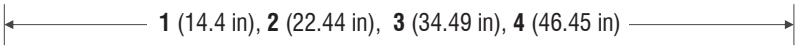
Location: _____

PRODUCT FEATURES

- 0–10V Direct Control
- Universal 120–277V Input
- Easy Linking Connection
- Diode Free Illumination
- Indoor Use
- Up to 200W Maximum Run Length







MODEL–LENGTH	INPUT VOLTAGE	WATTAGE	LUMEN 2700K	3000K	3500K	4000K	5000K	6000K	CRI
1–14.4"	120–277V AC	5W	468 lm	493 lm	516 lm	522 lm	543 lm	570 lm	80+
2–22.4"	120–277V AC	9W	909 lm	957 lm	1007 lm	987 lm	1026 lm	1078 lm	80+
4–46.45"	120–277V AC	18W	1898 lm	1956 lm	2028 lm	2019 lm	2100 lm	2205 lm	80+

ORDERING INFORMATION

Example: QX-550-30K-1-010V-120277-SV

Item	Output	CCT	Length	Dimming	Input Voltage	Finish
QX	**550**			**010V**	**120277**	
QX—Quix	**550**—550 lm/ft	**27K**—2700K **30K**—3000K **35K**—3500K **40K**—4000K **50K**—5000K **60K**—6000K	**1**—14.4" **2**—22.4" **4**—46.45"	**010V**	**120277**—120V–277V	**SV**—Silver **SVM**—Silver Antimicrobial

Conforms to ANSI/UL Standard 1598
Certified to CAN/CSA Standard C22.2 No. 9

RoHS COMPLIANT | 120–277V | DRY LOCATION RATED | ANTIMICROBIAL

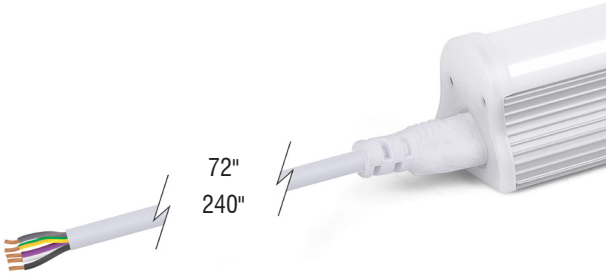
QUIX™ COMPONENTS

EASY LINKING CONNECTION

Multiple Quix fixtures can be connected in series.
No accessory required. Remove end cap and connect.
Do not exceed 200W.

MOUNTING CLIPS INCLUDED WITH FIXTURE

QUIX™ ACCESSORIES



HARDWIRE POWER FEED

Connect Quix to AC line voltage power source within j-box.All Quix fixtures will come standard with a 6" hardwire power feed

QX-CM-PWR-HW-72-WH | 72" Power Feed
QX-CM-PWR-HW-240-WH | 240" Power Feed

CORD COUPLER

Connects multiple Quix fixtures in series allowing separation
Do not exceed 200W.

QX-CM-CC-6-WH | 6" Cord Coupler
QX-CM-CC-24-WH | 24" Cord Coupler
QX-CM-CC-72-WH | 72” Cord Coupler

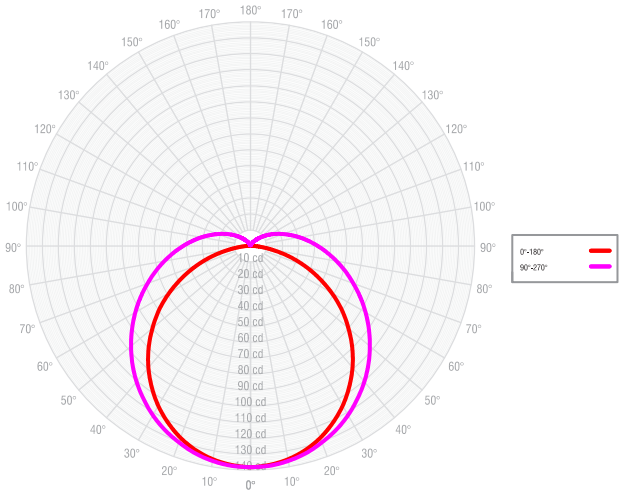
QUIX™ PHOTOMETRICS

QX-550-35K-1-010V-120277-SV
14.4" LENGTH

CONE OF LIGHT

MTG HEIGHT	LIGHT LEVEL	BEAM DIAMETER
1.0 ft	138.2 fc	2.9 ft
3.0 ft	15.4 fc	8.7 ft
5.0 ft	5.5 fc	14.4 ft
10.0 ft	1.4 fc	28.9 ft
15.0 ft	.6 fc	43 ft

CANDELA POLAR PLOT

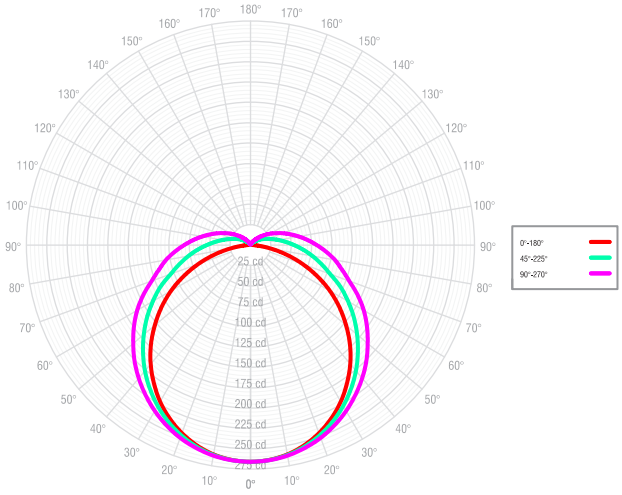


QX-550-35K-2-010V-120277-SV
22.4" LENGTH

CONE OF LIGHT

MTG HEIGHT	LIGHT LEVEL	BEAM DIAMETER
1.0 ft	266.1 fc	2.9 ft
3.0 ft	29.6 fc	8.6 ft
5.0 ft	10.6 fc	14.3 ft
10.0 ft	2.7 fc	28.7 ft
15.0 ft	1.2 fc	43.0 ft

CANDELA POLAR PLOT



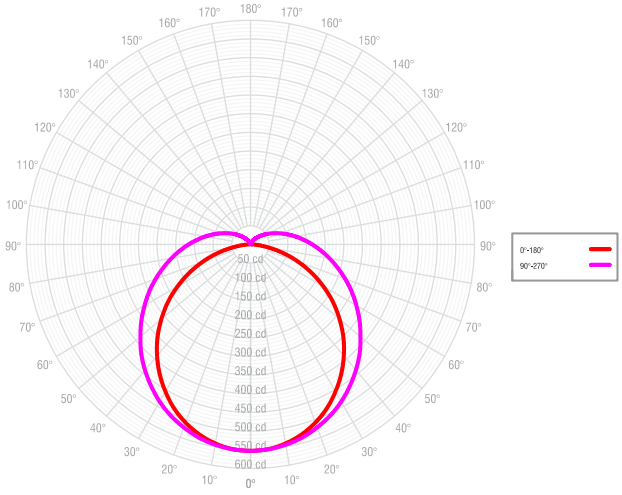
QUIX™ PHOTOMETRICS

QX-550-35K-4-010V-120277-SV
46.45" LENGTH

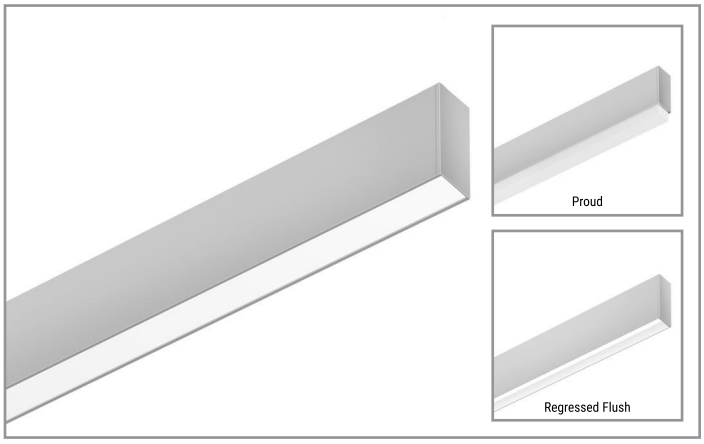
CONE OF LIGHT

MTG HEIGHT	LIGHT LEVEL	BEAM DIAMETER
1.0 ft	552.9 fc	2.8 ft
3.0 ft	61.4 fc	8.3 ft
5.0 ft	22.1 fc	13.9 ft
10.0 ft	5.5 fc	27.8 ft
15.0 ft	2.5 fc	41.6 ft

CANDELA POLAR PLOT



Project		Catalog #		Type	U2
Prepared by		Notes		Date	



Neo-Ray

Define 2

2" LED
Wall
Direct/Indirect

Typical Applications

Office • Education • Healthcare • Hospitality • Retail

Interactive Menu

- Order Information page 2
- Product Specification page 3
- Photometric Data page 4
- Performance Data page 5
- VividTune page 6

Product Certification

CERTIFIED

Product Features

damp location

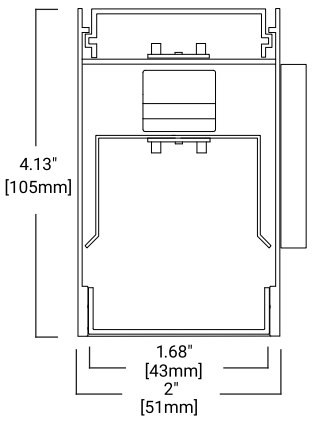
powered by fifthlight

VividTune

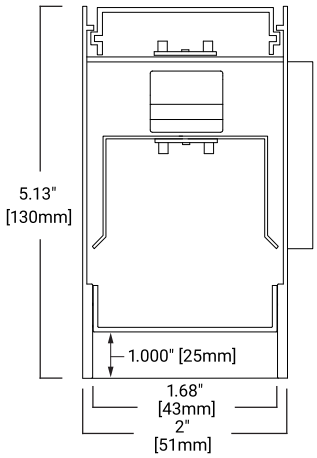
Top Product Features

- Wall Slot family in 2", 3", 4" and 5" housing sizes
- Specifiable to the nearest foot
- Satin, Asymmetric and Drop Direct Lensing available, Satin and Raised Indirect Lensing available
- Independently specifiable Direct / Indirect lumen packages
- 0-10V dimming standard; DALI dimming available
- 2700K, 3000K, 3500K, 4000K, and 5000K correlated color temperatures available

Dimensional and Mounting Details



Standard Housing



Regressed Housing

additional product diagrams

Order Information

Icon Key: Ø Consult factory for availability

SAMPLE ORDER NUMBER: **S122RDIW-C675D330U835-4F0-1T-UDD-D2-W-SWPD1**

Series	Light Engine	Lumen Package Down (Lms/ft)	Lumen Package Up (Lms/ft)	CRI	LED CCT	Luminaire Length (Ft)	Max section length	Circuiting
S122DIW=Define 2 Direct / Indirect Wall **S122RDIW**=Define 2 Regressed Direct / Indirect Wall	**C**=Core **H**=High Performance **V**=VividTune Ø	**290D**=290 Lms/ft (2.9W/ft) **485D**=485 Lms/ft (4.8W/ft) **675D**=675 Lms/ft (6.7W/ft) **865D**=865 Lms/ft (8.8W/ft) **1005D**=1005 Lms/ft (10.6W) **____D**=Custom Lms/ft Ø	**435U**=435 Lms/ft (2.9W/ft) **710U**=710 Lms/ft (4.8W/ft) **970U**=970 Lms/ft (6.8W/ft) **1240U**=1240 Lms/ft (9.0W/ft) **1440U**=1440 Lms/ft (10.7W/ft) **____U**=Custom Lms/ft Ø	**8**=80 **9**=90	**27**=2700K **30**=3000K **35**=3500K **40**=4000K **50**=5000K **2765**=2700K-6500K **3050**=3000K-5000K	**___F0**=Nominal Length	**(blank)**=12ft (std) **/8**=8ft	**1**=Single Circuit **2**=Dual Circuit **S**=Secondary Circuit
Notes RDIW regress of 1" will add an additional 1" to fixture depth.	**Notes** See performance table for add'l details. Light engine must be consistent across run length. V option requires lumen package of 675 lms/ft or greater.	**Notes** 3500K/80CRI/DIP/F Lens. Please refer to scaling data for other variables. For custom lumen output, please refer to additional information on page 3.	**Notes** 3500K/80CRI/No Lens. Please refer to scaling data for other variables. For custom lumen output, please refer to additional information on page 3. 1080 Lms/ft not valid with DALI or Lutron Drivers.	**Notes** Additional lead-time and cost may apply for 927, 930, 935 and 940 configurations. 2765/3050 VividTune configurations require V light engine and W2A driver.		**Notes** Minimum fixture length is 3ft. Specify to nearest foot in length. For 2ft fixture length, contact factory.	**Notes** Individual fixtures configured as 12ft max by default. Continuous runs configured as 8ft max (12ft not available).	**Notes** Dual circuit will provide separate Up/Down control. Secondary circuit similar to A/B switching. Price adder applies for "S" configuration.

Additional Section Wiring	Voltage	Driver Type	Shielding Down	Shielding Up
E=Emergency Circuit **B3**=Bodine 6W UNV Integral **T**=UL924 EPC Emergency Bypass Relay	**U**=Universal (120V-277V) **1**=120V **2**=277V **3**=347V	**DD**=Standard 0-10V Dimming (1%-100%) **5L**=Fifth Light DALI (5%-100%) **L5**=Lutron 5 Series (LDE5-Series) 5%-100% EcoSystem **LH**=Lutron HiLume (LDE1 series) 1%-100% EcoSystem **W2A**=White Tuning, 0-10V Dimming (VividTune only)	**F**=Satin White Diffuser **D**=Satin Drop diffuser **A**=Asymmetric Diffuser **C**=Corridor Diffuser	**(blank)** =No Lens or N/A **1**=Satin White Diffuser **2**=Satin Raised Diffuser
Notes Battery available on fixture ≥ 4ft in length. B3 and T options not compatible with 347V. Standard battery 4ft battery section located in the beginning of the fixture, but can be relocated using the linear product configurator. When configured with dual or secondary circuit, battery test switch will be located in a plate on the direct side of the fixture.	**Notes** 347V only available with DD driver option.	**Notes** DD driver is standard. For non-dimming applications, the driver will default to full brightness if no connection is made to the capped dimming wires in the field.	**Notes** All lensing options are snap-in lenses. "A" option is asymmetric toward the wall, "C" option is asymmetric away from the wall.	**Notes** No lens up standard, use satin white diffuser when dust cover desired of top of the fixture is viewable during normal use.

Options	Finish	Integrated Sensor
R=GLR Fuse (Fast) **F**=GMF Fuse (Slow)	**W**=White **S**=Silver **B**=Black **C**=Custom Match **R**=RAL Custom	**SWPD1**=WaveLinx Wireless **LWIPD1**=Lumawatt Pro Wireless **SVPD1**=Standalone **(blank)**=None
Notes	**Notes**	**Notes** DD driver must be selected. Please refer to page 5 for additional detail required to specify integrated sensors. Integral option not available with regressed or drop lensing. Battery not compatible with integrated sensor in 4ft DIP fixture.

Product Specifications

Construction
- Available in Flush and Regressed Housing
- Precision cut housing extruded from 6063 aluminum
- Precision cut & welded end-caps ensure a robust and clean construction
- Nominal 2' -12' illuminated sections used in individual fixtures and 2'-8' illuminated sections used in continuous runs

Finish
- Electrostatically applied polyester powder coat paint

LED Module
- Modular LED tray assembly comprising reflector and light engine with quick disconnect wire-harness for ease of installation and maintenance over the life of the luminaire

Light Engine
- Offered with two next generation Neo-Ray light engines delivering industry leading efficacy and long-life
- LED's are available in 2700K, 3000K, 3500K, 4000K or 5000K
- CRI options of either ≥80CRI or ≥90CRI (Lumen output will be affected - please refer to the lumen adjustment factor table)

LED Drivers
- LED system coupled with electrical driver
- Traditional electronic drivers are available for 120-277V and 347V applications

Controls and Integrated Sensors
- Equipped standard with a 0-10V continuous dimming driver. Compatible with most standard dimming devices
- Additional control types are available (DALI & Lutron) at an additional cost
- WaveLinx and LumaWatt Pro wireless sensors as well as stand-alone sensors available

Mounting
- Wall

Lengths
- Available in any length (2ft min) with a resolution of 1 foot. Max section length of 12ft (8ft max used on continuous runs and available for individual fixtures)
- Additional fixture lengths are available please consult factory. All lengths are nominal and do not include end caps.

Corners and Transition Pieces
- Corners and other transition pieces are fully luminous
- Constructed using precision mitered housing and lens components
- Extrusions are welded to ensure a precise and robust assembly
- Standard 90° horizontal corners as well as custom corners are available
- Consult online linear configurator or the factory for precise corner locations and for ordering
- Alternative transition pieces such as T's, Y's, X's, etc. are also available Ø

Direct Snap-In lensing Options
- Satin Flush - Flush, high diffusion glare-free lens
- Satin Drop - 1" Drop, high diffusion glare-free lens
- Asymmetric - Flush, low-glare Asymmetric lens
- Flush options ship with our patent-pending underlens solution, the proud lens ships with an injection molded end cap to eliminate light leak

Indirect Snap-In lensing Options
- Satin Flush - Flush, high diffusion glare-free lens
- No Lens - No lens option provides the lowest cost solution with the highest efficacy

Reflectors
- Precision formed cold-rolled steel reflectors with high reflectivity
- Ultra high reflectivity used with High Performance light engine

Lumen Maintenance
- 90% (L90) of initial light output at 61,000+ hrs
- 70% (L70) of initial light output at 237,000+ hrs
- Derived from TM-21 standard @25°C for worst case operating conditions

Custom Lumen Output
- Custom lumen output expressed option in Lumens per foot (e.g. -725D for 725 Lms/ft down). Refer to additional detail on page 4.

Electrical
- Dimming provided as standard
- Dimming wires capped with wire-nuts for non-dimming applications
- Optional battery backup options provided
- Default battery location is internal to fixture
- Default emergency section is 4ft in length and located at the beginning of the fixture unless designated elsewhere
- Estimated lumen output = battery wattage * min efficacy (see performance table)
- The EPC option will bypass local controls and dimming upon loss of normal power. This option is required when the fixture has both integrated sensors and emergency circuiting

Integrated Sensors
- Please reference page 5 for details

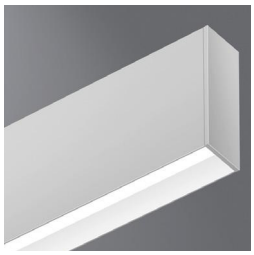
Weight
- 3.1 lbs per foot

Approvals
- cULus - listed for damp locations
- Meets NYC requirements
- Meets CCEC requirements
- Tested to IESNA LM-79 and LM-80
- Can be used for State of California Title 24 high efficacy luminaire

Warranty
- Five year warranty standard.

Shielding Options

Standard Flush Lens



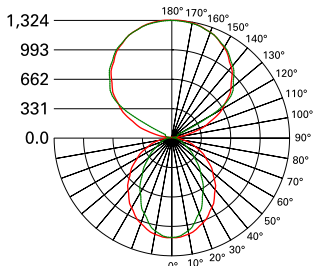
Regressed Flush Lens

Standard Proud Lens

Asymmetric Lens

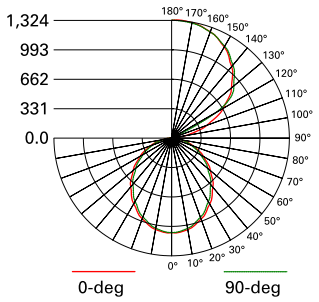
Photometric Data

View IES files

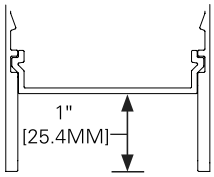


FILE NAME:
S122RDIW-S675D675U835-4F0-1E-UDD-F
LUMENS: 6193.2 Lms
LPW: 117.7 LPW
CCT: 3500K
WATTS: 52.6 W
TEST NUMBER: P331815

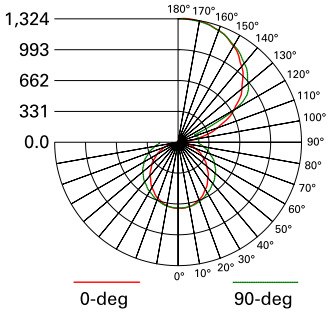
SATIN FLUSH LENS



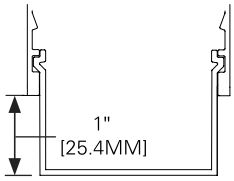
FILE NAME:
S122DIW-S675D675U835-4F0-1E-UDD-F
LUMENS: 6574.2 Lms
LPW: 125 LPW
CCT: 3500K
WATTS: 52.6 W
TEST NUMBER: P331541



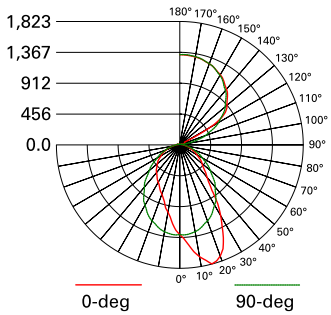
SATIN REGRESSED DIFFUSER



FILE NAME:
S122DIW-S675D675U835-4F0-1E-UDD-D
LUMENS: 6560.4 Lms
LPW: 124.7 LPW
CCT: 3500K
WATTS: 52.6 W
TEST NUMBER: P331539



SATIN DROP LENS



FILE NAME:
S122DIW-S675D675U835-4F0-1E-UDD-A
LUMENS: 6803.6 Lms
LPW: 129.3 LPW
CCT: 3500K
WATTS: 52.6 W
TEST NUMBER: P331537

ASYMMETRIC FLUSH LENS

Photometric Overview and Performance Data

Direct Performance Per Linear Foot at 3500K/80CRI

Nominal Output	Standard		High Performance		VividTune	
lms/ft	W/ft	lm/W	W/ft	lm/W	W/ft	lm/W
290	2.9	105	2.9	108	3	102
485	4.8	106	4.4	111	4.9	103
675	6.7	104	6.1	111	6.7	102
865	8.8	102	8.1	109	8.9	99
1005	10.6	98	9.7	105	10.7	96

Indirect Performance Per Linear Foot at 3500K/80CRI

Nominal Output	Standard		High Performance		VividTune	
lms/ft	W/ft	lm/W	W/ft	lm/W	W/ft	lm/W
435	2.9	153	2.9	155	3	149
710.0	4.8	151	4.4	165	4.9	148
970	6.8	147	6.1	163	6.8	144
1240	9.0	142	8.1	155	9.1	138
1440	10.7	138	9.7	152	10.7	137

LUMEN ADJUSTMENT CALCULATIONS

Example 1 - Adjusted Lumen Output
Nominal Lumen Output selected = 1025 lms/ft (based on standard of 3500K/80CRI)
Lumen Adjustment Factor = 0.801 (2700K/90CRI desired)

Adjusted Lumen Output = Nominal Lumen Output x Lumen Adjustment Factor
Adjusted Lumen Output = 1025 lms/ft x 0.801 = 821 lms/ft

Example 2 - Custom Lumen Output based on Required Lumens Per Foot
Total light output (4ft) requirement of 2800 lms, desired CCT and CRI of 4000K/80CRI

Total required lumens per foot @ 4000K= 2800 lms / 4 ft = 700 lms/ft
Lumen Adjustment Factor = 1.018 (Requirement based on 4000K / 80CRI)

Total required lumens per foot @ 3500K / 80CRI = 700 lms/ft ÷ 1.018 = 688 lms/ft

Estimated efficacy = 121 LPW (find nearest value using table above)
Estimated power consumption = 688 lms/ft ÷ 121 lm/W = 5.69 W/ft

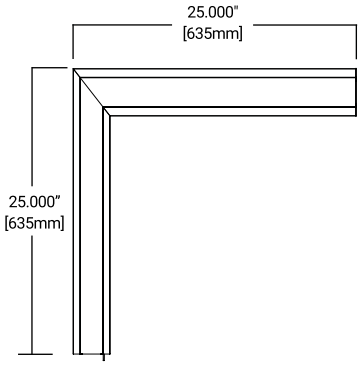
Custom Lumen Output

Total Light Output Range (lms/ft)

CCT	Lumen Adj Factors		Direct Output Range		Indirect Output Range	
	80CRI	90CRI	80CRI	90CRI	80CRI	90CRI
2700K	N/A	0.792	N/A	230-796	N/A	345-1140
3000K	0.943	0.815	273-948	236-819	410-1358	355-1174
3500K	1.000	0.861	290-1005	250-865	435-1440	375-1240
4000K	1.010	0.892	293-1015	259-896	439-1454	388-1284
5000K	1.010	0.892	293-1015	259-896	439-1454	388-1284

If your requirement is expressed in power consumption (W/ft) rather than light output, you can use the power to lumen output curves to convert power consumption to light output for specification. Efficacy for custom lumen outputs can be estimated using lumen output curves or with the use of our online custom lumen output tool.

Corner Transitions



Integrated Sensor Details and Placement

Sensor Type	Wireless	Sensor Integration	Sensor Mounting	Ordering Code
WaveLinx	Yes	Integral to Fixture	Mounted in solid cover	SWPD1
LumaWatt Pro (enlighted)	Yes	Integral to Fixture	Mounted in illuminated lens	LWIPD1
Stand-Alone SVPD1	No	Integral to Fixture	Mounted in solid cover	SVPD1

Optional standalone and wireless connected integrated sensors require use of the DD (0-10V) driver. WaveLinx and LumaWatt Pro sensors require additional system hardware (not provided) for full functionality.

Standard sensor layout is shown below. Please refer to sensor coverage pattern diagrams to ensure proper coverage for the application. Standard configurations are available in both individual fixtures and in continuous runs. Default spacing is based on the maximum fixture length of 12ft and can be changed to 8ft sensor spacing for additional coverage by selecting the 8ft max fixture length option when ordering.

For additional information integrated sensors and connected lighting, please visit Eaton's Connected Lighting Website.

○ Standard Sensor with Luminaire Control
⊗ Auxiliary Sensor used for Sensor Coverage (wireless systems only)

INTEGRAL SENSOR

≤8ft Individual ○

>8ft Individual ○ ⊗

Note: When 8ft max section length is used on individual fixtures > 8ft, sensor placement follows logic for continuous run.

Beginning of Run (BOR) ○

Intermediate Section (INT) ○

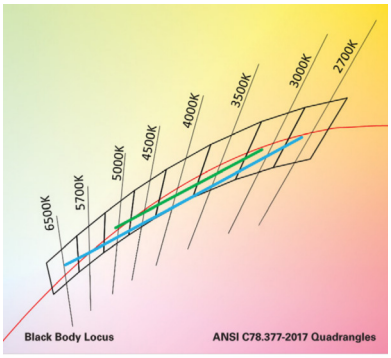
End of Run (EOR) > 4ft ○ ⊗

End of Run (EOR) ≤ 4ft ○

VividTune™
color tuning solutions

Define 2 Pendant LED with VividTune Tunable White

VividTune tunable white luminaires deliver high-quality light in a broad range of continuously variable color temperatures and intensities. Create a dynamic environment by adjusting the ambient light warmer or cooler to influence mood, support the task at hand, or create a dramatic ambience. The ability to control correlated color temperature and intensity separately using simple controls is the next evolution of LED lighting for the commercial, educational, healthcare and hospitality space. The unparalleled flexibility and number of available lighting environments enable users to find the right light with tunable white.



Performance Data*

Tunable White - Lumen Adjustment Factors

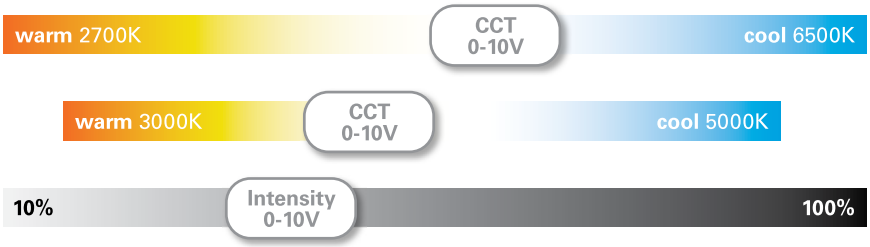
CCT	3000K-5000K		2700K-6500K	
	80 CRI	90 CRI	80 CRI	90 CRI
2700K	-	-	0.868	0.741
3000K	0.894	0.736	0.893	0.771
3500K	0.946	0.804	0.924	0.809
4000K	0.993	0.868	0.944	0.835
4500K	1.002	0.883	0.961	0.857
5000K	1.002	0.883	0.974	0.874
6500K	-	-	0.988	0.897

Example of Approximate Lumen Calculation

CCT Setting	Standard Catalog #	VividTune 80 CRI Catalog #	VividTune 90 CRI Catalog #
	S122DIW-C865D1240U835-UDD-F-W	S122DIW-V865D1240U83050-UW2A-F-W	S122DIW-V865D1240U93050-UW2A-F-W
3000K	-	7527	6197
3500K	8420	7965	6770
4000K	-	8361	7309
4500K	-	8437	7435
5000K	-	8437	7435

Controlling VividTune Tunable White

VividTune luminaires make tunable white more accessible by using simple and familiar controls. From wall dimmers to wireless controls, VividTune tunable white luminaires are compatible with industry standard 0-10V dimming controls. A single 0-10V dimming input is used to control intensity (brightness) while a second 0-10V dimming input is used to adjust CCT. For suggested control configurations, go to www.eaton.com/lighting for tunable white application guides.



Example of Lumen Adjustment Calculation

S122DIW-V865D1240U83050-UW2A-F-W
at 80 CRI tuned to 3500K

Adjusted Lumen =
published lm x adjusted lm factor

Adjusted Lumen = 8420 x 0.946

Adjusted Lumen = 7965 lm

** Lumen adjustment factors are for reference and may be different for each product selected. Refer to IES files for actual performance data on each.*

Cooper Lighting Solutions
18001 East Colfax Avenue
Aurora, CO 80011
P: 303-393-1522
www.eaton.com/lighting

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Specifications and dimensions subject to change without notice.

DestinationLighting.

Customer Service: 1-800-653-6556 **or** cs@destinationlighting.com

M-F: 7am-5pm **&** Sunday: 11am-4pm **(PST)**

Brink LED Bathroom Vanity & Wall Light

Price: $199.00

Product Number:	P2038848 or 682648
Manufacturer:	WAC Lighting
Model Number:	WS-77624-30-AL
Collection:	Brink
Manufacturer Finish:	Brushed Aluminum
Manufacturer Shade Color:	Clear and White
Shade Shape:	Rectangle
Total Wattage:	20.5 w.
Voltage Type:	Line Voltage
Voltage Input:	120-277 v.
Average Rated Life1:	85,000 hrs
Dimmable:	With Electronic Dimmer
Height:	3 in.
Width:	24 in.
Depth:	2.75 in.
Wattage:	20.5
Bulb Type:	LED
Base Type:	Integrated LED
Number Of Bulbs:	1
Bulb Included:	Yes

Beam Spread:	Flood
ADA Compliant:	Yes
Shade Material:	Acrylic
Material:	Aluminum
Mix And Match:	No
LampShade Included:	Yes
Shipping:	UPS Regular
Certification Agencies:	ETL, CETL
Backplate Dimension:	5.88 x 3
Wet Location:	No
Damp Location:	Yes
Light Direction:	Vertical or Horizontal
Weight:	2.96 lbs
Kelvin Temperature:	3000
Lumens:	1770
Color Rendering Index:	90
Made In America:	No
Title 24:	No

4.8 ★★★★★
Google
Customer Reviews

EVE Series
LED Exit Sign

X1/X2

Catalog Number	
Comments	Type

FEATURES

Application
The EVE series is a compact architectural LED exit sign designed for fast installation and reliable service. The EVE Series has a flame-rated, UV stable thermoplastic housing with a lightly textured white or black finish. Available in AC only or emergency operation which includes a nickel metal hydride(NiMH) battery and provides a full 90 minutes of emergency exit illumination in the event of power failure. Includes a constant current charger. The EVE accepts 120/277VAC input at 60Hz and optional 220-240VAC input at 50 or 60 Hz with self-diagnostics option. Available with special worded options.

Construction
The EVE series housing and canopy are made from durable injection molded ABS thermoplastic

Installation
EVE can be wall mounted by use of back-plate with molded-in template, ceiling or end mounted with the use of supplied canopy to standard 3-½" or 4" square or octagonal electrical boxes. Pre-stripped AC input leads provided.

Illumination
The EVE series provides bright and uniform exit panel illumination by using energy saving, long-life red or green LEDs with a 10 year lifecycle. The panel face exceeds UL924 requirements for brightness and uniformity.

Compliances
Listed to UL924 Standard
NFPA 101
NFPA 70
UL Damp Location Listed

Warranty
EVE Full 5 year warranty
Battery, 3 years full, 7 years pro-rata

ACCESSORIES

EV Unit	2 LED Indoor Emergency Light
EVC	Exit Sign/ LED Emergency Light
VRS3	Vandal Resistant Shield
WGLX	Wire Guard (Wall Mount)
WGLXC	Wire Guard (Ceiling Mount)
PMLXB	12 ½" Pendant Mounting Kit (black)
PMLXW	12 ½" Pendant Mounting Kit (white)

EVO Outdoor Remote

EVR2 Indoor Remote

EVC Combo Exit/ Light

ORDERING GUIDE

EVE —

Model	Faces	Letter Color	Finish	Operation	Self-Diagnostics	Options
	U Universal Face	**R** Red **G** Green	**W** White **B** Black	**Blank** Standard Model **E** Emergency	**Blank** No Self-Diagnostics **I** Spectron® Self-Diagnostics [1]	**2C** 2 circuit operation[2,5] **FAP** Fire Alarm Panel[3,5,6,7] **FM** Flasher Module[1,6,7] **AF** Audible Flasher[1,6,7] **DC** Remote DC Operation[2,4,5] **24K** 220-240VAC 50,60 Hz with Spectron® **SW** Special Wording[8,9]

[1] For use with emergency models only
[2] For use with AC models only
[3] Operates with 24 volt AC or DC fire alarm panels
[4] For emergency illumination of sign from remote 6-24 VDC power source
[5] DC option may not be specified with 2C or FAP options
[6] AF,-FM and FAP options may not be specified together
[7] For use with Spectron equipped models only
[8] SW option limited to selections on pg.2
[9] Special worded sign ships as a universal single or double face

HUBBELL Lighting

EVE Series
LED Exit Sign

SPECIFICATIONS

Electronics

- Upon failure of the normal utility power, a solid-state transfer switch automatically activates the exit LEDs. Upon resumption of the normal utility power, the battery is disconnected from the load and recharged through a constant current charger. The battery is a maintenance-free Nickel Metal Hydride(NiMH) type. The EVE series accepts 120/ 277VAC at 60 Hz, or an optional 220-240VAC input (-24K option)at 50 or 60 Hz. A low voltage battery disconnect(LVD) feature protects the battery from damage during prolonged power failures. Manual testing is available at any time using the push-to-test button. Rated LED lifecycle-greater than 100,000hrs. or 10 years.

Standard Features Include:

- External push-to-test switch and AC-on indicator
- Battery re-charge within 24 hours
- AC Lock-out circuit
- Low voltage battery disconnect

Optional Spectron Feature:

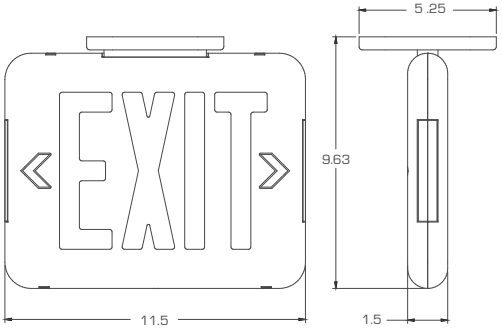
- Self-diagnostics monitors LED status, LED load transfer circuit, battery capacity and charger function and displays any fault detection by means of a flashing code
- Self-Test feature automatically runs a 1 minute test once a month and an alternating 30 or 60 minute test once every 6 months. Multi-color LED indicator provides visible fault detection and charging status User initiated 1 or 90-minute system test feature
- 15 minute re-transfer delay
- Automatic unit transfer in brown-out conditions(below 80% of nominal AC input voltage)

Operating Temperature Range:

20° to 30°C

Weight: 2.5 lbs

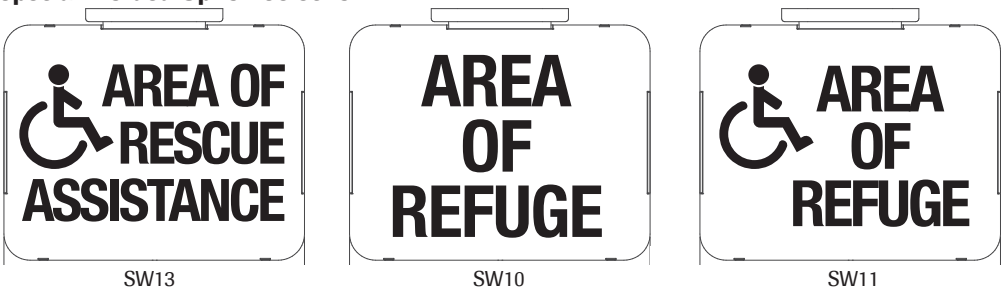
DIMENSIONS



POWER CONSUMPTION

Model	120VAC, 60Hz			277VAC, 60Hz		
	A	W	PF	A	W	PF
Red AC Only	0.02	1.42	0.59	0.009	1.36	0.54
Green AC Only	0.02	1.36	0.57	0.009	1.30	0.57
Red Emergency	0.027	2.01	0.62	0.0127	1.94	0.55
Green Emergency	0.027	2.01	0.62	0.0127	1.94	0.55

Special Worded Option Selection:



SW13 SW10 SW11

SW69 SW3 SW4

** All special worded selections ship as a universal sign for single or double-face application.*

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