LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

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 T5 and T8 lengths. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, cove 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 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 — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare. L/LENS option available.

ELECTRICAL — L70>60,000hours. 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 3.) Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), **multi-volt input and 0-10V dimming standard**. This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

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

Lumen output up to 2,000 lumens per foot. In 86°F (30°C) ambient environments. Luminaire should be installed in applications where ambient temperatures do not exceed 86°F (30°C).

INSTALLATION — Tool-less channel cover for easy installation.

Fixture may be surface mounted (with or without ZSPRG hanger), pendant or stem mounted with appropriate mounting options. Three-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 -40°F (-40°C) and 86°F (30°C).

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

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/resources/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.

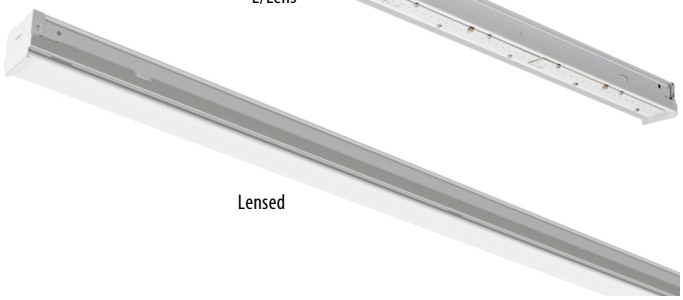
Z SERIES

LED Striplight

ZL1N

24", 48" and 96" Lengths

L/Lens



Lensed

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

ZL1N 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: ZL1N L48 3000LM FST MVOLT 40K 80CRI WH

Series	Length	Reflectors[2]	Nominal lumens[3]	Diffuser	Voltage
ZL1N LED striplight	L24 24" [1]	(blank) Less reflector	1500LM 1,500 lumens	FST Snap on frosted, diffuse	MVOLT 120-277V
		SMR Symmetric	2500LM 2,500 lumens	L/LENS No diffuser	120 120V
			3500LM 3,500 lumens	SBL FST Straight blade louver with snap on frosted, diffuse	208 208V
	L46 46"	(blank) Less reflector	3000LM 3,000 lumens		240 240V
	L48 48"	ASR Asymmetric (L48 only)	5000LM 5,000 lumens		277 277V
		SMR Symmetric	7000LM 7,000 lumens		347 347V [4]
TZL1N LED striplight	L92 92"	(blank) Less reflector	6000LM 6,000 lumens		480 480V [4]
	L96 96"	SMR Symmetric	10000LM 10,000 lumens		
			14000LM 14,000 lumens		

Color temperature	Color rendering index	Options	Paint finish
30K 3000 K	80CRI 80 CRI	PLR__ Plug-in wiring[5,6]	WH White
35K 3500 K	90CRI 90 CRI	PLR1LVG Plug-in wiring-low voltage[5,6]	GALV Galvanized
40K 4000 K		E7W Emergency battery pack, 7W CA Title 20 Noncompliant[7]	MB Matte black
50K 5000 K		2E7W Two Emergency battery packs, 7W CA Title 20 Noncompliant[7,8]	SKGY Smoke gray
		E10WLCP Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS[7,8]	
		2E10WLCP Two Emergency battery packs, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS[7,8]	
		E15WLCP Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS[7,8]	
		OUTEND Cord set to exit endplate of fixture	
		Wireless Controls[5]	
		NLTAIR2 RLSXR10 nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360˚	
		NLTAIR2 RLSXR10EM nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360˚, UL924 Emergency operation[9]	
		Individual Controls[5]	
		LBOZU 360° low mount motion sensor, pre-wired[10]	
		LBH0SZU 360° low mount motion sensor with dimming, pre-wired[10]	
		LBPZU 360° low mount motion sensor with photocell, pre-wired[10]	
		LBM0SZU 360° low mount motion sensor, dimming & switching photocell, pre-wired[10]	
		Cord sets:[11]	
		CS1W Straight plug, 120V	
		CS3W Twist-lock, 120V	
		CS7W Straight plug, 277V	
		CS11W Twist-lock, 277V	
		CS25W Twist-lock, 347V	
		CS97W Twist-lock, 480V	
		CS93W 600V SEOOW white cord, no plug (no voltage required)	

Accessories: *Order as separate catalog number.*

HC36	Hanger chain, 36"
ZACVH	Aircraft cable 10' (one pair)
ZLANGBKT	Luma-tilt™ angle bracket for shelf or ledge mounting only
SQ_	Stem kit, 2" increments up to 48"
NPP16D	nLight® switching/dimming module
rPP20D	nLight® Air switching/dimming module
LSXR	Sensor Switch® LSXR occupancy sensor [4]
ZSPRG	For 15/16" T-grid only
WGZ24	24" wireguard, white [12]
WGZ48	48" wireguard, white [12,13]
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 Not available with 347V, 480V or Batteries
2 Optional. Reflectors ship separately.
3 See Operational Data on page 2 for actual lumens.
4 Utilizes step down transformer.
5 See ordering information on pages 4 and 5 and rLSXR specification sheet for more configurations. When choosing Sensor and PLR for same fixture, consult the factory.
6 Not available with cord sets.
7 MVOLT only. Battery Spec sheet linked for more information.
8 Only available with 10,000LM and 14,000LM packages.
9 MVOLT only.
10 Available with MVOLT, 347V and 480V only. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). See page 6 for low temperature option providing -4°F (-20°C) minimum ambient Sensors come prewired, they must be snapped into place at time of installation.
11 Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W).
12 Not compatible with reflector
13 Order 2 for tandem double length fixtures (TZL1N).

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	1738	1409	1777	1467	1804	1494	1871	1528	15	1-lamp 17W T8
	2500LM	24	2265	1846	2315	1900	2351	1947	2438	1991	19	1-lamp 17W T8
	3500LM	24	3586	2924	3666	3026	3723	3084	3860	3152	31	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	3000LM	46 or 48	3172	2586	3243	2677	3293	2728	3415	2788	25	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	5000LM	46 or 48	4417	3601	4515	3727	4585	3798	4754	3882	34	2-lamp 32W T8, 1-lamp 54W T5H0, 70W HID
	7000LM	46 or 48	6535	5328	6681	5515	6785	5619	7035	5744	52	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	6000LM	92 or 96	6561	5349	6708	5537	6812	5642	7063	5767	48	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	10000LM	92 or 96	8687	7082	8881	7331	9019	7470	9351	7636	68	4-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	14000LM	92 or 96	12457	10513	12735	10665	12933	10711	13409	10949	104	4-lamp 32W T8, 3-lamp 54W T5H0, 150W HID
Unlensed	1500LM	24	1881	1534	1923	1588	1953	1618	2025	1654	15	1-lamp 17W T8
	2500LM	24	2452	1999	2506	2069	2545	2108	2639	2155	19	1-lamp 17W T8
	3500LM	24	3882	3165	3969	3276	4031	3338	4179	3412	31	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	3000LM	46 or 48	3434	2800	3511	2898	3565	2953	3697	3019	25	1-lamp 32W T8, 1-lamp 54W T5H0, 50W HID
	5000LM	46 or 48	4781	3898	4888	4035	4964	4111	5147	4203	34	2-lamp 32W T8, 1-lamp 54W T5H0, 70W HID
	7000LM	46 or 48	7075	5768	7233	5971	7345	6083	7616	6219	52	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	6000LM	92 or 96	7103	5791	7261	5995	7374	6108	7646	6243	48	3-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	10000LM	92 or 96	9404	7667	9614	7937	9764	8087	10123	8266	68	4-lamp 32W T8, 2-lamp 54W T5H0, 100W HID
	14000LM	92 or 96	13485	10994	13786	11381	14001	11596	14516	11853	104	4-lamp 32W T8, 3-lamp 54W T5H0, 150W HID

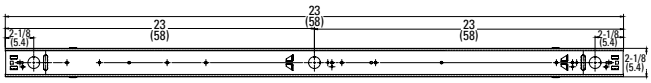
DIMENSIONS

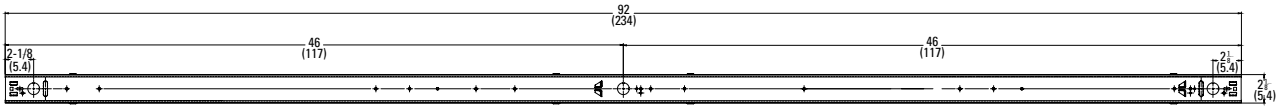
All dimensions are shown in inches (centimeters) unless otherwise noted.

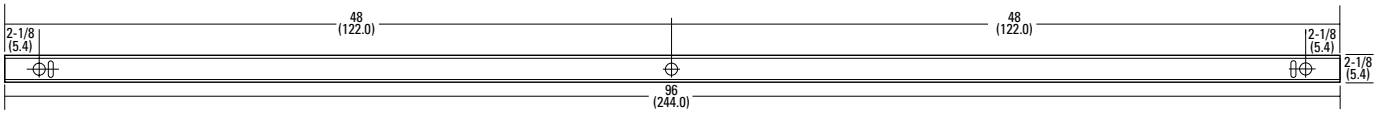
Specifications subject to change without notice.

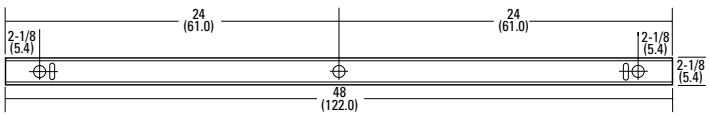
PALLET DIMENSIONS

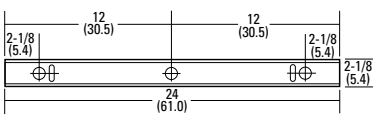
Length	Approximate weight	Fixtures per pallet	Approximate pallet dimensions (L x W x H)
L24	7 lbs.	408	46" X 51" X 32 11/16"
L46	11 lbs.	176	46" X 51" X 32 1/16"
L48	12 lbs.	176	46" X 51" X 31 3/8"
L92	22 lbs.	176	46" X 98 1/2" X 31 1/16"
L96	24 lbs.	176	46" X 98 1/2" X 31 1/16"



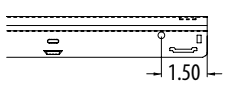




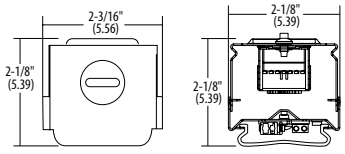




Mounting Hole Location - All Lengths



Knockout hole is .86in in diameter.

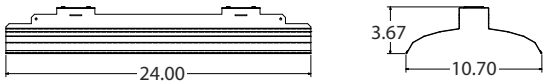


PHOTOMETRICS

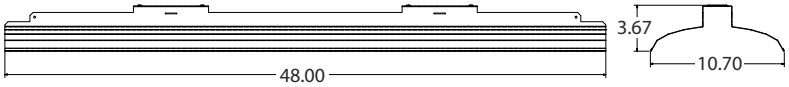
Please see www.lithonia.com

REFLECTORS (Optional)

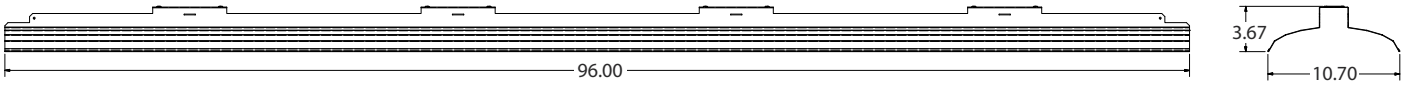
L24 Reflector



L48 Reflector



L96 Reflector



PHOTOMETRICS

Please see www.lithonia.com

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 or PLR1	(blank)	No emergency circuit	LV	Low-voltage dimming	G	Ground, required
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, 2-circuit (PLR 22)
- Multiple circuit with night-lights located along row as desired

LSXR – Fixture Mount Occupancy Sensor (see www.AcuityControls.com for additional information)

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

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature
For shortest lead times use one of the following LSXR configurations		
LC0ZU	CMRB 50	MSI
LCH0SZU	CMRB 50 D	MSID
LCPZU	CMRB 50 P	MSIPED
LA0ZU	CMRB 6	MSI360
LAH0SZU	CMRB 6 D	MSI360D
LAPZU	CMRB 6 P	MSI360PED

SELECTIONS BELOW WILL EXTEND ORDER LEAD TIME. CONSULT YOUR SALES REPRESENTATIVE FOR DETAILS.

SINGLE RELAY

ORDERING INFORMATION

Example: LAH0SZU

Series	Lens option	Dimming/Photocell	Max. dim level	Min. dim level	Temp/Humidity	Default occupancy time delay
L LSXR passive infrared indoor occupancy sensor	A High mount, 360° B Low mount, 360° C High mount aisleway	0 None[1] H High/low occupancy operation P Switching photocell (on/off)[1] M Dimming and switching photocell G Dimming and switching photocell with high/low occupancy operation	0 10 VDC 9 9 VDC 8 8 VDC 7 7 VDC	S Minimum dim level of ballast 1 1 VDC 2 2 VDC 3 3 VDC 4 4 VDC 5 5 VDC 6 6 VDC	Z None T Low temperature[2]	I 30 sec D 2.5 min X 5.0 min R 7.5 min U 10.0 min (with minimum 15 minute on time) V 15.0 min W 20.0 min Y 30.0 min

Notes

1 Max and min dim levels not applicable with this option.

2 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

DUAL RELAY (Available with 120, 277, and 347V only)

ORDERING INFORMATION

Example: LA2KZU

Series	Lens option	Poles	Operating mode	Temp/Humidity	Default occupancy time delay
L LSXR passive infrared indoor occupancy sensor	A High mount, 360° B Low mount, 360° C High mount aisleway	2 Dual relay	J None K Alternating off relays (promotes even lamp wear) O Alternating off relays w/photocell P Switching photocell(on/off) E Photocell on/off (pole 1 only) F Photocell on/off - both poles (dual set-point)	Z None T Low temperature[1]	I 30 sec D 2.5 min X 5.0 min R 7.5 min U 10.0 min (with minimum 15 minute on time) V 15.0 min W 20.0 min Y 30.0 min

Notes

1 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

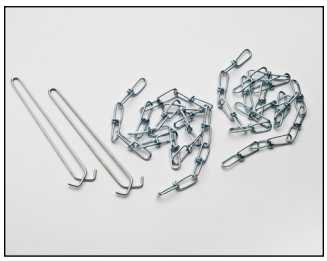
Example: LENS 50 J100

Replacement lenses: *Order as separate catalog number.*

Series	Lens type	Package quantity
LENS	6 High mount 360° 10 Low mount 360° 50 High mount aisleway	[blank] Single Lens J10 10-pack J100 100-pack

OPTIONS AND ACCESSORIE

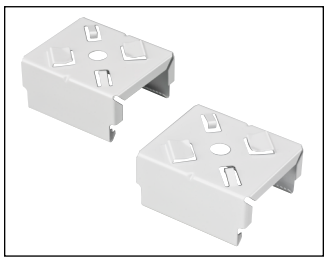
The Z Series fixture offers numerous options for almost every electrical and optical component, including a long list of field-installable accessories.



HANGER CHAIN

36" chain with Y hanger.

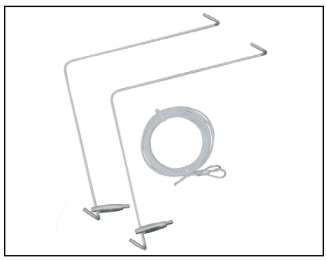
Order as:
HC36



Z SPRING HANGER

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

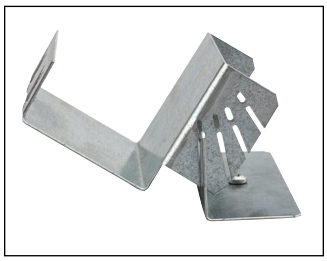
Order as:
ZSPRG



ZACVH HANGER

10' Aircraft cable with Y hanger.

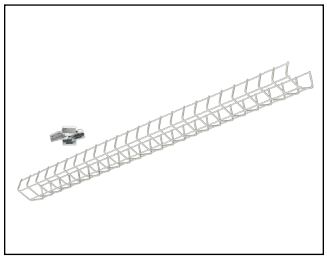
Order as:
ZACVH



ANGLE MOUNTING BRACKET

Luma-tilt™ angle bracket ships as a pair

Order as:
ZLANGBKT



WIRE GUARD

Order as:
WGZ24
WGZ48

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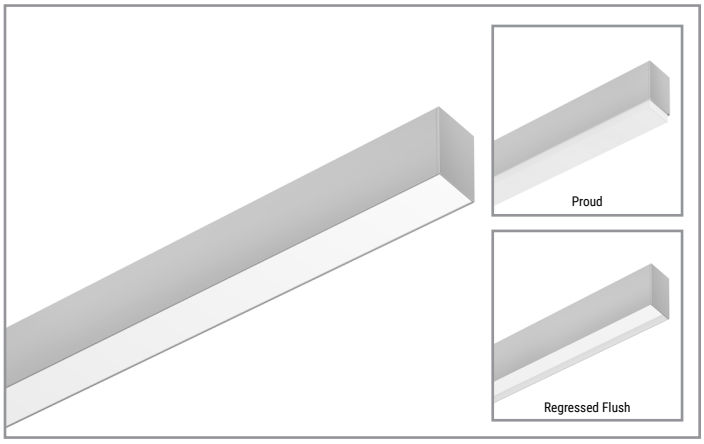
Project		Catalog #		Type	
Prepared by		Notes		Date	



Neo-Ray

Define 4

4" LED
Wall Mount
Direct

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

c UL us c UL us LISTED

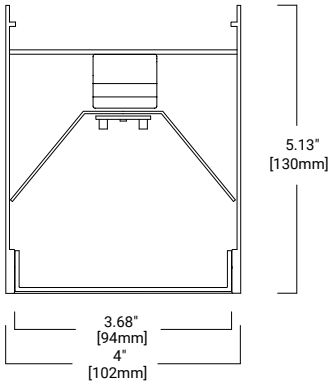
Product Features

damp location powered by fifthlight VividTune

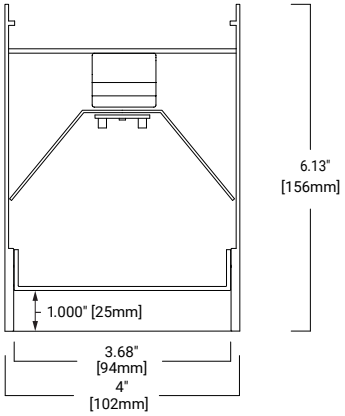
Top Product Features

- Wall Mount Slot family in 2", 3", 4" and 5" housing sizes
- Specifiable to the nearest foot
- Satin, Asymmetric and Drop Direct 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: **S124DW-C795D835-4F0-1E-UDD-D-W**

Series	Light Engine	Lumen Package Down (Lms/ft)	CRI	LED CCT	Luminaire Length (Ft)	Max section length	Circuiting
S124DW=Define 4 Direct Wall **S124RDW**=Define 4 Regressed Direct Wall	**-C**=Core **-H**=High Performance **-V**=VividTune Ø	**350D**=350 Lms/ft (2.9W/ft) **575D**=575 Lms/ft (4.8W/ft) **795D**=795 Lms/ft (6.7W/ft) **1020D**=1020 Lms/ft (8.8W/ft) **1195D**=1195 Lms/ft (10.6W) **____D**=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 **-S**=Secondary Circuit
Notes RDW 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 795 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. 350 Lms/ft not available on 2ft fixture length.	**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 2ft. Specify to nearest foot in length.	**Notes** Individual fixtures configured as 12ft max by default. Continuous runs configured as 8ft max (12ft not available).	**Notes** Secondary circuit similar to A/B switching. Price adder applies for "S" configuration.

Additional Section Wiring	Voltage	Driver Type	Shielding Down
E=Emergency Circuit **B1**=Surelite 7W 120-277V EM battery pack (EL7W) **B2**=Surelite 14W 120-277V EM battery pack (EL14W) **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% EcoSys **LH**=Lutron HiLume (LDE1 series) 1%-100% EcoSys **W2A**=White Tuning, 0-10V Dimming (VividTune only)	**F**=Satin White Diffuser **D**=Satin Drop diffuser **A**=Asymmetric Diffuser **L**=Straight Blade Diffuser w/ diffuser **C**=Corridor Diffuser
Notes Battery available on fixture ≥ 4ft in length. B1-B2 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 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. "L" option may require additional lead-time, please consult factory for details. "A" option is asymmetric toward the wall, "C" option is asymmetric away from the wall.

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.

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 configutor 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

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

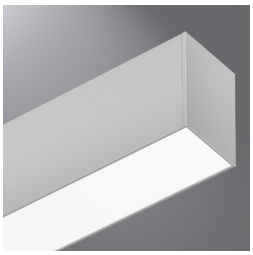
Integrated Sensors
- Please reference page 5 for details

Weight
- 4.0 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

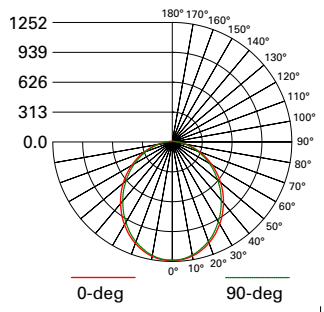
Regressed Flush Lens

Standard Proud Lens

Asymmetric Lens

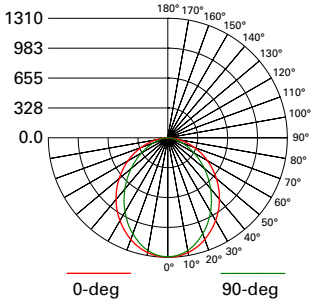
Photometric Data

View IES files

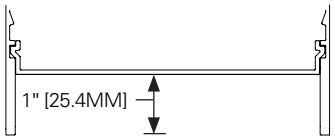


FILE NAME: S124DR-S795D835-GYP4F0-1-UDD-F-W
LUMENS: 3203 Lms
LPW: 121.3 LPW
CCT: 3500K
WATTS: 26.2 W
TEST NUMBER: G3-1802-639-5

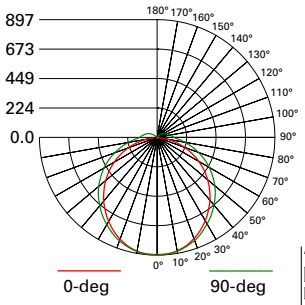
SATIN FLUSH LENS



FILE NAME: S124RDR-S795D835-GYP4F0-1-UDD-F-W
LUMENS: 3018 Lms
LPW: 114.3 LPW
CCT: 3500K
WATTS: 26.4 W
TEST NUMBER: G3-1802-639-26

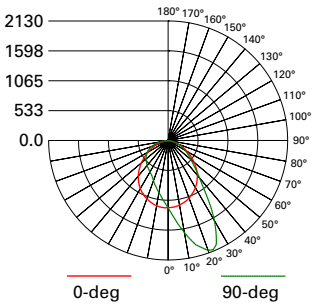


SATIN REGRESSED DIFFUSER



FILE NAME: S124DR-S795D835-GYP4F0-1-UDD-F-W
LUMENS: 3203 Lms
LPW: 121.3 LPW
CCT: 3500K
WATTS: 26.2 W
TEST NUMBER: G3-1802-639-5

SATIN DROP LENS



FILE NAME: S124DR-S795D835-GYP4F0-1-UDD-A-W
LUMENS: 3331 Lms
LPW: 126.2 LPW
CCT: 3500K
WATTS: 26.4 W
TEST NUMBER: G3-1802-639-21

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
350	2.9	133	2.9	136	3	129
575	4.8	134	4.4	140	4.9	130
795	6.7	131	6.1	141	6.7	128
1020	8.8	129	8.1	137	8.9	125
1195	10.6	124	9.7	132	10.7	121

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

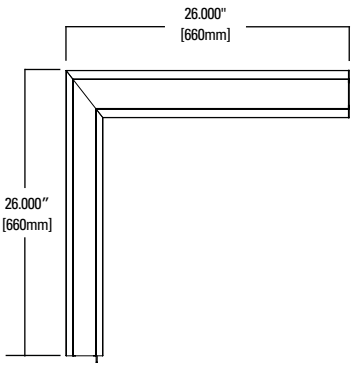
Custom Lumen Output

Total Light Output Range (lms/ft)

CCT	Lumen Adj Factors		Direct Output Range	
	80CRI	90CRI	80CRI	90CRI
2700K	N/A	0.792	N/A	277-946
3000K	0.943	0.815	330-1127	285-974
3500K	1.000	0.861	350-1195	301-1029
4000K	1.010	0.892	354-1207	312-1066
5000K	1.010	0.892	354-1207	312-1066

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 Cooper Lighting Solutions Connected Lighting Website

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

INTEGRAL SENSOR

≤8ft Individual	○	
>8ft Individual	○	⊗

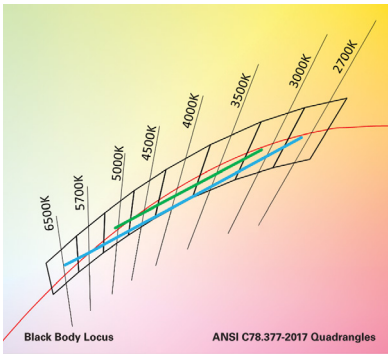
Note: When 8ft max section length is used on individual fixtures > 8ft, sensor placement follows logic for continuous run.

Beginning of Run (BOR)	○	
Intermediate Section (INT)	○	
End of Run (EOR) > 4ft	○	⊗
End of Run (EOR) ≤ 4ft		○

VividTune™
color tuning solutions

Define 4 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.



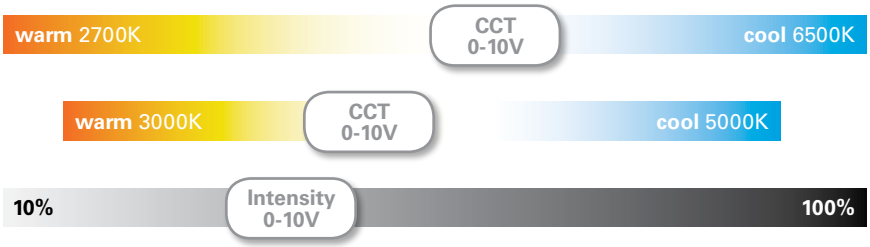
Performance Data*

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			
	Standard Catalog #	VividTune 80 CRI Catalog #	VividTune 90 CRI Catalog #
CCT Setting	S124DW-C1020D835-UDD-F-W	S124DW-V1020D83050-UW2A-F-W	S124DW-V1020D93050-UW2A-F-W
3000K	-	3648	3003
3500K	4080	3860	3280
4000K	-	4051	3541
4500K	-	4088	3603
5000K	-	4088	3603

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.cooperlighting.com for tunable white application guides.



Example of Lumen Adjustment Calculation

S124DW-V1020D83050-UW2A-F-W
at 80 CRI tuned to 3500K

Adjusted Lumen =
published lm x adjusted lm factor

Adjusted Lumen = 4080 x 0.946

Adjusted Lumen = 3860 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.*

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Aurora, CO 80011
P: 303-393-1522
www.cooperlighting.com

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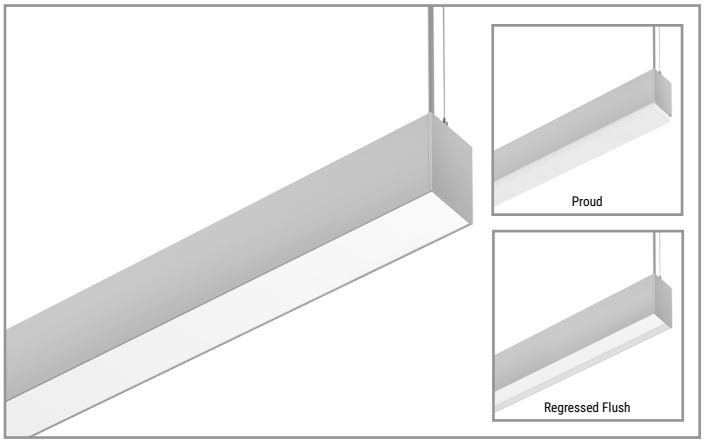
Specifications and dimensions subject to change without notice.

Project		Catalog #		Type	
Prepared by		Notes		Date	



Neo-Ray

Define 4

4" LED
Suspended Pendant
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

c UL us c UL us LISTED

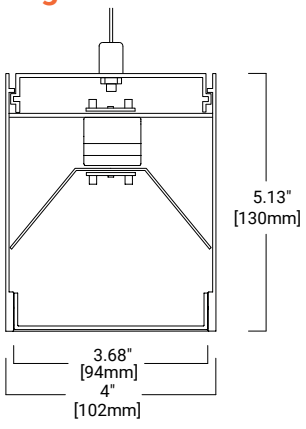
Product Features

damp location · powered by fifthlight · VividTune · QS

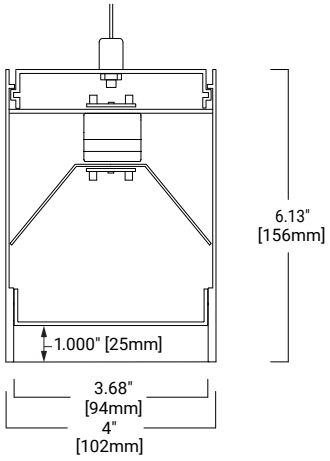
Top Product Features

- Suspended Slot family in 2", 3", 4" and 5" housing sizes
- Specifiable to the nearest foot
- Satin, Asymmetric and Drop Direct 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: Grey bar denotes available with 10-Day Quick Ship
Ø Consult factory for availability

SAMPLE ORDER NUMBER: **S124DIP-C795D365U835-C4JB4F0-1T-UDD-F1-W-SWPD1**

Series	Light Engine	Lumen Package Down (Lms/ft)	Lumen Package Up (Lms/ft)	CRI	LED CCT	Suspension Type	Ceiling Type	Mounting HW Color
QS-S124DIP=Define 4 Direct/Indirect Pendant Quick Ship **S124DIP**=Define 4 Direct/Indirect Pendant **S124RDIP**=Define 4 Regressed Direct/Indirect Pendant	**-C**=Core **-H**=High Performance **-V**=VividTune Ø	**350D**=350 Lms/ft (2.9W/ft) **575D**=575 Lms/ft (4.8W/ft) **795D**=795 Lms/ft (6.7W/ft) **1020D**=1020 Lms/ft (8.8W/ft) **1195D**=1195 Lms/ft (10.6W) **___D**=Custom Lms/ft Ø	**365U**=365 Lms/ft (2.2W/ft) **590U**=590 Lms/ft (3.6W/ft) **810U**=810 Lms/ft (5.0W/ft) **1035U**=1035 Lms/ft (6.6W/ft) **1205U**=1205 Lms/ft (7.9W) **___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	**-C4**=4ft Aircraft Cable **-C10**=10ft Aircraft Cable **-C20**=20ft Aircraft Cable **-S4**=4ft Stem Mount **-S8**=8ft Stem Mount	**JB**=Gypsum Board, Junction Box, Structure **T1**=15/16" T-Grid (ETG) **T9**=9/16" T-Grid (FTG) **TS**=9/16" Slot (STG), Tegular (FTT), Interlude (ITG)	**(blank)**=White **B**=Black
Notes RDIP 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 795 lms/ft or greater and fixture length of 3 ft+.	**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. 1195 Lms/ft not valid with DALI or Lutron Drivers. 350 Lms/ft available on fixture length 4ft+.	**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	**Notes** Additional lead-time and cost may apply for 850, 927, 930, 935, 940 and 950 configurations. 2765/3050 VividTune configurations require V light engine and W2A driver.		**Notes**	**Notes**	**Notes** White mounting hardware standard

Luminaire Length (Ft)	Max section length	Circuiting	Additional Section Wiring	Voltage	Driver Type	Shielding Down
3**F0**= 3' Nominal Length 4**F0**= 4' Nominal Length 8**F0**=8' Nominal Length **__F0**=4' Incremental Run (e.g. 40F0 = 40' 0") **___F0**=1' Incremental Run (e.g. 39F0 = 39' 0")	**(blank)**=12ft (std) **/8**=8ft	**-1**=Single Circuit **-2**=Dual Circuit **-S**=Secondary Circuit	**E**=Emergency Circuit **B1**=Surelite 7W 120-277V EM battery pack (EL7W) **B2**=Surelite 14W 120-277V EM battery pack (EL14W) **B3**=Iota Slimline 5W, 120V-277V Integral (ILB-SL-CP5) **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) 5%-100% EcoSys **LH**=Lutron HiLume (LDE1) 1%-100% EcoSys **W2A**=White Tuning, 0-10V Dimming (VividTune only)	**-F**=Satin White Diffuser **-D**=Satin Drop diffuser **-A**=Asymmetric Diffuser **-L**=Straight Blade Diffuser w/ diffuser
Notes Minimum fixture length is 3ft. Specify to nearest foot in length.	**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.	**Notes** Battery available on fixture ≥ 4ft in length. B1-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.	**Notes** 347V only available with DD driver options.	**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. "L" option required RDIP series and will require additional lead-time, please consult factory for details.

Shielding Up	Options	Finish	Integrated Sensor
(blank)=No Lens or N/A **1**=Satin White Diffuser	**-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 No lens up standard, use satin white diffuser when dust cover desired of top of the fixture is viewable during normal use.	**Notes** Additional lead-time may apply	**Notes** Contact factory for C and R options. W/S/B are standard.	**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
- Suspended

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

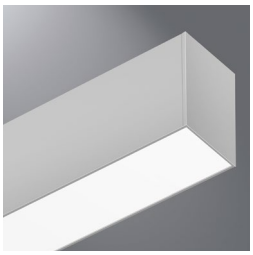
Integrated Sensors
- Please reference page 5 for details

Weight
- 4.2 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

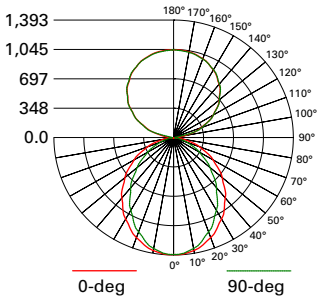
Regressed Flush Lens

Standard Proud Lens

Asymmetric Lens

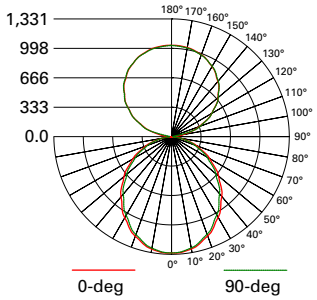
Photometric Data

View IES files



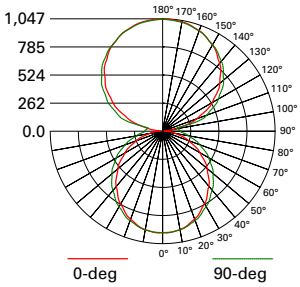
FILE NAME:
S124RDIP-S795D795U835-4F0-1E-UDD-F
LUMENS: 6446.2 Lms
LPW: 140.4 LPW
CCT: 3500K
WATTS: 45.9 W
TEST NUMBER: P332940

SATIN FLUSH LENS



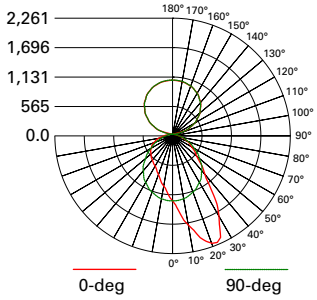
FILE NAME:
S124DIP-S795D795U835-4F0-1E-UDD-F
LUMENS: 6643.2 Lms
LPW: 144.7 LPW
CCT: 3500K
WATTS: 45.9 W
TEST NUMBER: P332604

SATIN REGRESSED DIFFUSER



FILE NAME:
S124DIP-S795D795U835-4F0-1E-UDD-D
LUMENS: 6474.7 Lms
LPW: 141.1 LPW
CCT: 3500K
WATTS: 45.9 W
TEST NUMBER: P332601

SATIN DROP LENS



FILE NAME:
S124DIP-S795D795U835-4F0-1E-UDD-A
LUMENS: 6778.9 Lms
LPW: 147.7 LPW
CCT: 3500K
WATTS: 45.9 W
TEST NUMBER: P332598

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
350	2.9	133	2.9	136	3	129
575	4.8	134	4.4	140	4.9	130
795	6.7	131	6.1	141	6.7	128
1020	8.8	129	8.1	137	8.9	125
1195	10.6	124	9.7	132	10.7	121

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
365	2.2	168	2.5	171	2.6	164
590	3.6	169	3.9	176	4.3	158
810	5.0	165	5.3	177	5.9	158
1035	6.6	161	7.1	168	7.8	154
1205	7.9	157	8.5	164	9.4	153

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

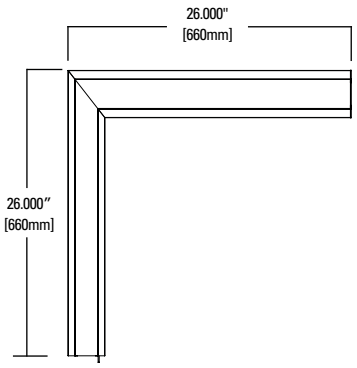
Custom Lumen Output

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	277-946	N/A	289-954
3000K	0.943	0.815	330-1127	285-974	344-1136	297-982
3500K	1.000	0.861	350-1195	301-1029	365-1205	314-1038
4000K	1.010	0.892	354-1207	312-1066	369-1217	326-1075
5000K	1.010	0.892	354-1207	312-1066	369-1217	326-1075

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) ○

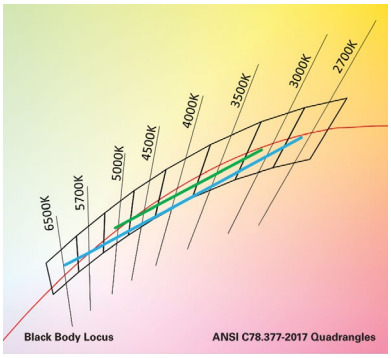
End of Run (EOR) > 4ft ○ ⊗

End of Run (EOR) ≤ 4ft ○

VividTune™
color tuning solutions

Define 4 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.



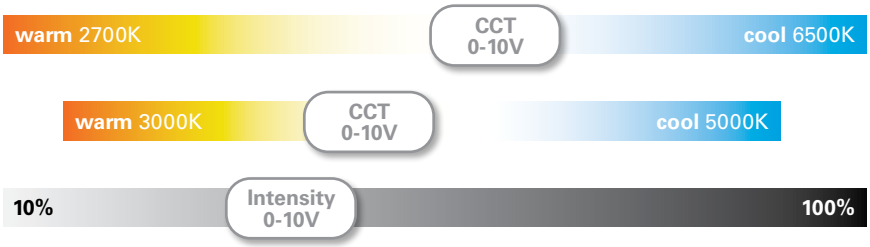
Performance Data*

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			
	Standard Catalog #	VividTune 80 CRI Catalog #	VividTune 90 CRI Catalog #
CCT Setting	S124DIP-C1020D1035U835-X-UDD-F-W	S124DIP-V1020D1035U83050-X-UW2A-F-W	S124DIP-V1020D1035U93050-X-UW2A-F-W
3000K	-	7349	6050
3500K	8220	7776	6609
4000K	-	8162	7135
4500K	-	8236	7258
5000K	-	8236	7258

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

S124DIP-V1020D1035U83050-X-UW2A-F-W
at 80 CRI tuned to 3500K

Adjusted Lumen =
published lm x adjusted lm factor

Adjusted Lumen = 8220 x 0.946

Adjusted Lumen = 7776 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.*

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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.

LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

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

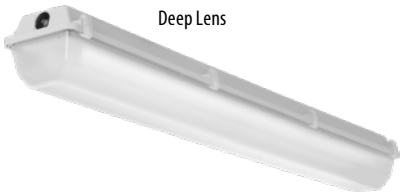
NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

Low-Profile Enclosed and Gasketed Industrial

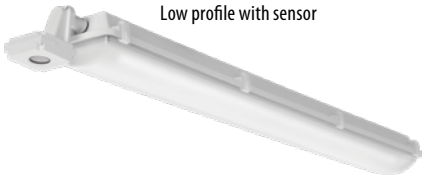
FEM LED

SURFACE/ SUSPENDED/WALL MOUNT

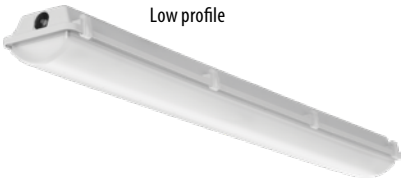
Deep Lens



Low profile with sensor



Low profile



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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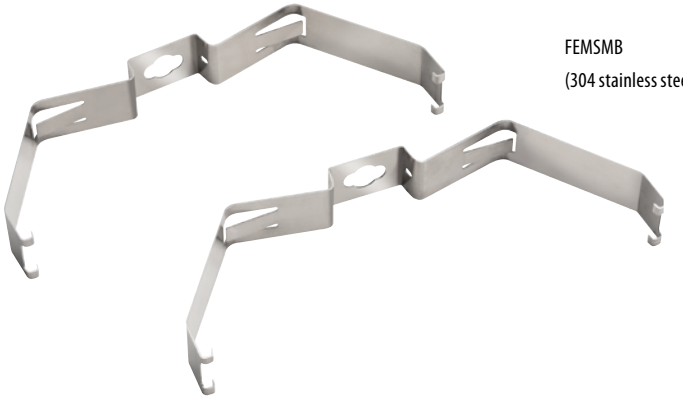
‡ Option Value Ordering Restrictions	
Option value	**Restriction**
L24	Not available with BE6WCP.
L48	Not available with WLFPMP.
L96	Not available with WLFPMP
HVOLT	When ordered with L24 available with 6000LM only. When ordered with L48 not available with 3000LM or 4000LM. Not available with XAD or XPA 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

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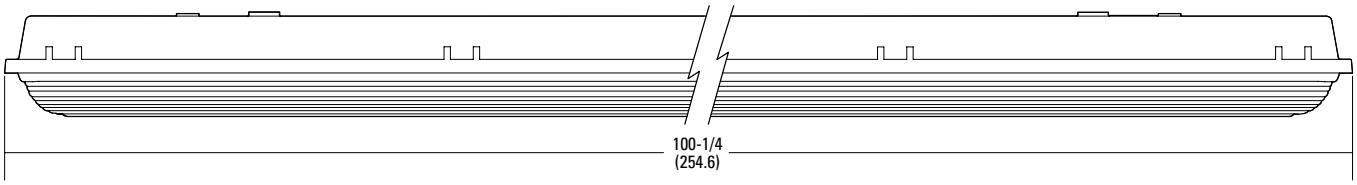
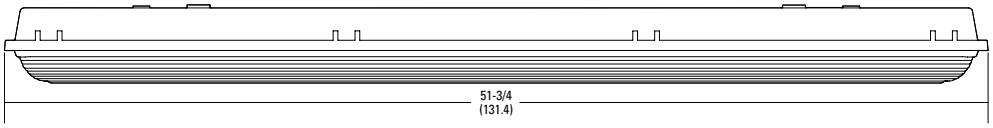
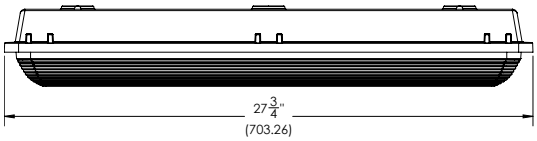
DIMENSIONS

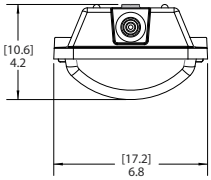
Specifications subject to change without notice.
All dimensions are inches (centimeters) unless otherwise indicated.

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

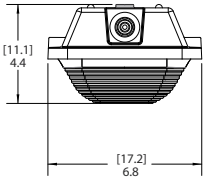




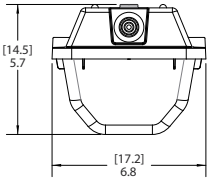




Diffuser Type:
LPAFL
LPACL
LPPFL
LPPCL



Diffuser Type:
IMAFL



Diffuser Type:
IMAFD
IMACD

PHOTOMETRICS

See www.lithonia.com for photometry reports.

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HYDREL

CATALOG NUMBER

NOTES

TYPE

LOWELL

LED

HIGHLIGHTS

- Indirect and direct lighting
- Suitable for wet locations
- Integral 120V-277V driver
- Dimmable with low voltage magnetic dimmer
- Heat strengthen borosilicate glass lens
- Powder coated with a super durable TGIC powder coat finish

5 YEAR warranty

LED

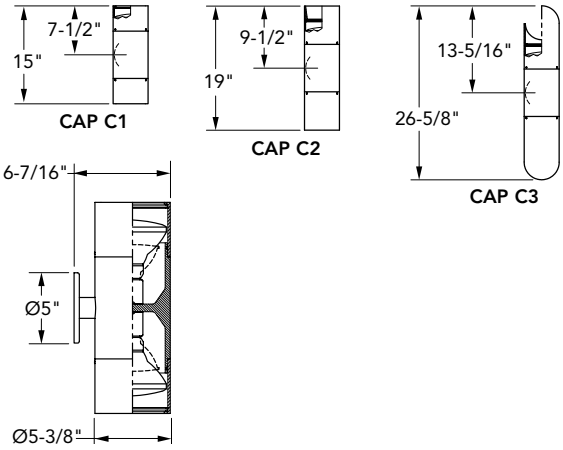
Buy American

Specifications

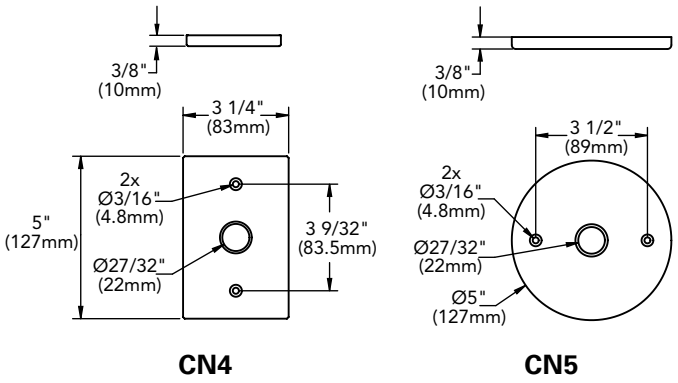
Height:	15" (381 mm) w/C1
	19" (483 mm) w/C2
	26-5/8" (676 mm) w/C3

Width:	6-7/16"
	164 mm
Weight:	16lbs

DIMENSIONS



MOUNTING



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Phone: 800-705-SERV (7378) • www.hydrel.com

ORDERING INFORMATION

EXAMPLE: LOWELL 2/9LED38 277 NSP CN4 IHL C1 NBS

Series*	Source*	Color Temperature*	Voltage*	Distribution*	Mounting Accessories*	Options[1]
LOWELL	2/9LED38	30K 40K 50K	120 277	NSP Narrow Spot NFL Narrow Flood FL Flood	CN4 Rectangular canopy CN5 Round 5" canopy	**Internal Louver** IHL Honeycomb Louver **Internal Accessory** L1 Prismatic Lens L2 Linear Spread Lens L3 Softening Lens

Internal Filters

FA	Amber
FG	Green
FGD	Green Dichroic
FLB	Light Blue
FM	Mercury Vapor
FMB	Medium Blue
FMBD	Medium Blue Dichroic
FR	Red
FRD	Red Dichroic

External Caps*	Finish*
C1 Short Flush C2 Recessed Lens C3 45° Angle Cut	**All Material** BL Black Textured BRS Bronze Smooth BRT Bronze Textured DBL Black Smooth DDB Designer Bronze DNA Natural Aluminum NBS[2] Natural Bronze Smooth VET Verde Textured WH White CF Custom Finish WHS White Smooth

Notes:
1 Up to 3 internal options can be specified.
2 NBS paint uses specialty pigments to give a natural appearance that may vary by fixture.

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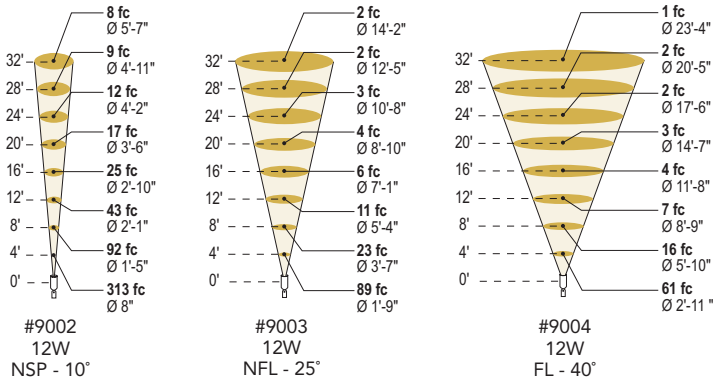
PHOTOMETRIC DIAGRAMS

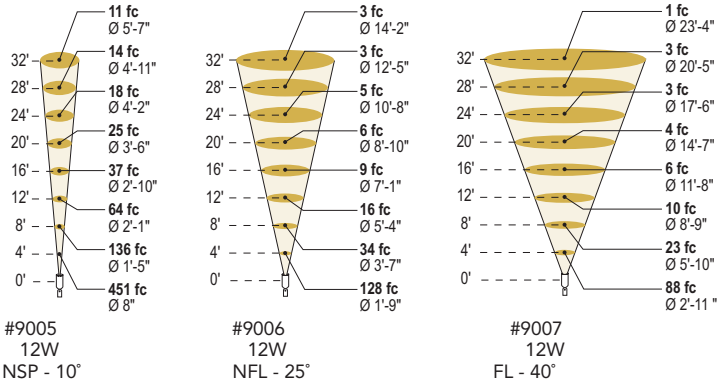
Isocandela plots for LOWELL LED. To see complete photometric reports or download .ies files for this product, visit www.hydrel.com/

PHOTOMETRY • LED-38 WARM WHITE 3000K



#9002 12W NSP - 10˚ | #9003 12W NFL - 25˚ | #9004 12W FL - 40˚

PHOTOMETRY • LED-38 COOL WHITE 5000K



#9005 12W NSP - 10˚ | #9006 12W NFL - 25˚ | #9007 12W FL - 40˚

LED unit independently tested at BAL LABS inside of a fixtureto LM-79-08 standard.

9006 & 9007 multiplier used based on 9003 & 9004 results.

*All information is subject to change without prior notice.
All diameter dimensions are nominal.

SPECIFICATIONS AND FEATURES

CONSTRUCTION: Body and caps cast from 356 - T6 ALUMINUM, stem and mount plate machined from 6061 - T6 ALUMINUM. Lens cut from tempered borosilicate glass for superior clarity and strength. Two medium base 4kV pulse rated porcelain sockets rated 660W-600V, with 18 ga. 200°C, 600V leads.

LIGHT SOURCE: Hydrel proprietary replaceable LED unit using three (9) High Output LEDs and an integral low voltage (11V-14V) AC/DC LED driver and a field replaceable optic. All within 3 MacAdam ellipses,

VOLTAGE: 120 or 277.

DISTRIBUTION: Available in three (3) beam spreads; Narrow Spot, Narrow Flood, and Flood.

FEATURES: Field replaceable lens. Any combination of up to 3 lens accessories/color filter/ shielding can be specified for cap style and are held securely by a removable stainless steel clip ring. All fixtures come standard with the Watershed™ Lens.

POWER SUPPLY: Integral AC LED drivers included.

MOUNTING: CN4 for mounting to a rectangular J-box. CN5 for mounting to a 5" Round or octagonal J-box.

FINISHES: Available in standard TGIC polyester powder coat finishes. Custom powder coat finishes available (contact factory for more information) *Remote ballast box in standard gray powder coat only.

LISTING: cETLus, suitable for wet locations, laboratory tests conducted by ETL to UL Standard UL-1598 and UL-8750

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

WARRANTY: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Consult factory for details.

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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Phone: 800-705-SERV (7378) • www.hydrel.com

Catalog Number	
Notes	
Type	

Contractor Select™

WPX LED

Wall packs

The WPX LED wall packs are energy-efficient, cost-effective, and aesthetically appealing solutions for HID wall pack replacement and renovation opportunities. The WPX2 and WPX3 full cut-off solutions fully cover the footprint of the HID glass wall packs that they replace, providing a neat installation and an upgraded appearance. Reliable IP66 construction and excellent LED lumen maintenance ensure a long service life.

FEATURES:

- Architectural design at very economical prices
- Energy efficient - payback in less than two years
- Wide range of configuration options available

5 YEAR warranty

Note : WPX3 lumen package and all the WPX configuration options are not included in the Contractor Select program. For more information, please visit WPX LED.

Luminaire	CCT	Lumens	Input Watts	Finish	Voltage	Catalog Number	CI Code	UPC	Pallet qty.	Replaces Up To
WPX1	4000K	2,900	24W	DARK BRONZE	120-277V	WPX1 LED P2 40K MVOLT DDBXD M4	*265SWK	193048870589	160	150W Metal Halide
	5000K	2,900	24W	DARK BRONZE	120-277V	WPX1 LED P2 50K MVOLT DDBXD M4	*265SWM	193048870572	160	150W Metal Halide
WPX2	4000K	6,000	47W	DARK BRONZE	120-277V	WPX2 LED 40K MVOLT DDBXD M2	*265SX3	193048870756	120	250W Metal Halide
	5000K	6,000	47W	DARK BRONZE	120-277V	WPX2 LED 50K MVOLT DDBXD M2	*265SX6	193048870770	120	250W Metal Halide

More configurations are available. Click here or visit www.acuitybrands.com and search for WPX LED.

Specifications

INTENDED USE:

The WPX LED wall packs are designed to provide a cost-effective, energy-efficient solution for the one-for-one replacement of existing HID wall packs. The WPX1, WPX2 and WPX3 are ideal for replacing up to 150W, 250W, and 400W HID luminaires respectively. WPX luminaires deliver a uniform, wide distribution.

CONSTRUCTION:

WPX feature a die-cast aluminum main body with optimal thermal management that both enhances LED efficacy and extends component life. The luminaires are IP66 rated, and sealed against moisture or environmental contaminants.

ELECTRICAL:

Light engine(s) configurations consist of high-efficacy LEDs with LED lumen maintenance of L90/100,000 hours. Color temperature (CCT) options of 3000K, 4000K and 5000K with minimum CRI of 70. Electronic drivers ensure system power factor >90% and THD <20%. All luminaires have 6kV surge protection (Note: WPX1 LED P1 package comes with a standard surge protection rating of 2.5kV. It can be ordered with an optional 6kV surge protection).

Note: The standard WPX LED wall pack luminaires come with field-adjustable drive current feature. This feature allows tuning the output current of the LED drivers to adjust the lumen output (to dim the luminaire).

Sample nomenclature : WPX1 LED P1 40K MVOLT SPD6KV DDBXD All photocell (PE) operate on MVOLT (120V - 277V) input.

INSTALLATION:

WPX can be mounted directly over a standard electrical junction box. Three 1/2 inch conduit ports on three sides allow for surface conduit wiring. A port on the back surface allows poke-through conduit wiring on surfaces that don't have an electrical junction box. Wiring can be made in the integral wiring compartment in all cases. WPX is only recommended for installations with LEDs facing downwards.

LISTINGS:

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. IP66 Rated.

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

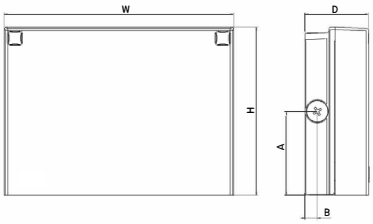
WARRANTY:

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.

Dimensions

All dimensions are inches (centimeters) unless otherwise indicated.



Front View Side View

Luminaire	Height (H)	Width (W)	Depth (D)	Side Conduit Location		Weight
				A	B	
WPX1	8.1″ (20.6 cm)	11.1″ (28.3 cm)	3.2″ (8.1 cm)	4.0″ (10.3 cm)	0.6″ (1.6 cm)	6.1 lbs (2.8kg)
WPX2	9.1″ (23.1 cm)	12.3″ (31.1 cm)	4.1″ (10.5 cm)	4.5″ (11.5 cm)	0.7″ (1.7 cm)	8.2 lbs (3.7kg)
WPX3	9.5″ (24.1 cm)	13.0″ (33.0 cm)	5.5″ (13.7 cm)	4.7″ (12.0 cm)	0.7″ (1.7 cm)	11.0 lbs (5.0kg)

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LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

LDN6CYL

6" CYLINDER
Non-IC

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private o□ces.
CONSTRUCTION — Heavy-gauge aluminum housing.
Ceiling mount for direct installation to 4" octagonal or square junction box.
Pendant mount entry for 3/8" National Pipe Thread stem; wires supplied by others.
Textured polyester powder paint finish standard.
Multiple ceiling, pendant, cord, and wall mount options available.
OPTICS — LEDs are binned to a 3-step SDCM; 80 CRI minimum. 90 CRI optional.
LED light source concealed with di□using optical lens.
General illumination lighting with 1.0 S/MH and 55° cuto□ to source and source image.
Self-flanged anodized reflectors in specular, semi-specular, or matte di□use finishes. Also available in white and black painted reflectors.
ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.
347V available option; transformer must be field-installed to an accessible remote-mounted junction box.
0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.
70% lumen maintenance at 60,000 hours.
LISTINGS — Certified to US and Canadian safety standards. Damp location standard (wet location, covered ceiling optional). ENERGY STAR® certified product.
BUY AMERICAN — This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.
WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx
Note: Actual performance may di□er as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

A+ Capable options indicated by this color background.

ORDERING INFORMATION

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

Example: LDN6CYL 35/15 LO6AR LSS MVOLT EZ1 FCM DWHG

LDN6CYL

Series	Color temperature	Lumens	Aperture/Trim Color		Finish	Voltage
LDN6CYL 6" cylinder	27/ 2700K	05 500 lumens	LO6 Downlight	AR Clear	LSS Semi-specular	MVOLT Multi-volt
	30/ 3000K	07 750 lumens	LW6[1] Wallwash	WR[2] White	LD Matte di□use	120 120V
	35/ 3500K	10 1000 lumens		BR[2] Black	LS Specular	277 277V
	40/ 4000K	15 1500 lumens				
	50/ 5000K	20 2000 lumens				
		25 2500 lumens				
		30 3000 lumens				
		40 4000 lumens				
		50 5000 lumens				

Driver[3]		Mounting		Options[6]		Architectural Colors[10,11]	
GZ10	0-10V driver dims to 10%	FCM	Ceiling mount	SF[6]	Single fuse	DWHG	Matte white
GZ1	0-10V driver dims to 1%	WM	Wall mount	NPP16D[7,8]	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).	DDB	Dark bronze
EZ10	0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%	PM[4]	Pendant 3/8" thread mount	NPP16DER[7,8]	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	DBL	Black
EZ1	0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	ACC[5]	10ft aircraft cable and cord mount	NPS80EZ[7,8]	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).	DWH	Glossy white
		ACC180[5]	15ft aircraft cable and cord mount	NPS80EZER[7,8]	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.	DMB	Medium bronze
				90CRI	High CRI (90+)	DNA	Natural aluminum
				WL[9]	Wet location	DSS	Sandstone
						DGC	Charcoal grey
						DTG	Tennis green
						DBR	Bright red
						DSB	Steel blue

Notes
1 Not available in ACC mount.
2 Not available with finishes.
3 Refer to TECH-240 for compatible dimmers.
4 Supplied with 10ft supply and dimming connections.
5 White cord supplied with white housings. All other finishes supplied with black cord.
6 Must specify voltage 120V or 277V.
7 Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
8 Interface remote mounted. Access panel (supplied by others) recommended.
9 Not available with ACC & ACC180 mounting options.
10 Additional architectural colors available; see www.lithonia.com/archcolors.
11 Color and length of stem must be specified (from 6" to 240" in even increments in maximum sections of 48"). Ex.: CYS06 DWHG. Ceiling attachment for interior use. Consult factory for exterior.
12 Must be field-installed to an accessible remote-mounted junction box.

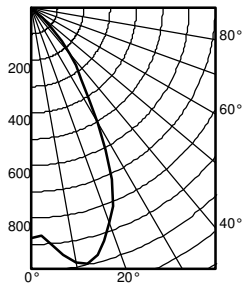
LDN6CYL

Accessories: *Order as separate catalog number. (shipped separately)*	
CYS[11]	3/8" stem and canopy with 5° "hang straight" swivel
CRS[11]	3/8" stem and canopy with 45° swivel
SDT 347/120 75VA[12]	347V Step-down transformer

PHOTOMETRY

Distribution Curve | **Distribution Data** | **Output Data** | **Coe cient of Utilization** | **Illuminance Data at 30" Above Floor for a Single Luminaire**

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



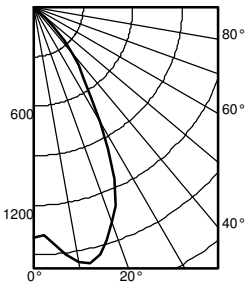
	Ave	Lumens
0	876	
5	905	89
15	971	269
25	720	322
35	330	214
45	110	87
55	1	4
65	1	1
75	0	0
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	680.7	69.0
0° - 40°	895.0	90.7
0° - 60°	986.0	99.9
0° - 90°	987.0	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	987.0	*100.0
*Efficiency		

pf	20%								
pc	80%			70%			50%		
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	111	108	106	109	106	104	104	103	101
2	103	99	95	101	97	94	98	95	92
3	96	91	87	94	90	86	92	88	85
4	89	84	79	88	83	79	86	81	78
5	83	77	73	82	77	73	81	76	72
6	78	72	68	77	72	67	76	71	67
7	73	67	63	73	67	63	71	66	62
8	69	63	59	68	62	58	67	62	58
9	65	59	55	64	59	55	63	58	54
10	61	55	51	61	55	51	60	55	51

		50% beam - 54.5°		10% beam - 82.2°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	29.0	5.7	14.5	9.6	2.9
10.0	15.6	7.7	7.8	13.1	1.6
12.0	9.7	9.8	4.9	16.6	1.0
14.0	6.6	11.8	3.3	20.1	0.7
16.0	4.8	13.9	2.4	23.6	0.5

LDN6 35/15 L06AR, input watts: 17.52, delivered lumens: 1572.9, LM/W = 87.45, spacing criterion at 0= 1.02, test no. ISF 30716P265.



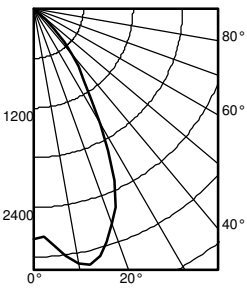
	Ave	Lumens
0	1396	
5	1442	142
15	1547	429
25	1147	514
35	526	342
45	176	139
55	2	6
65	1	1
75	1	1
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	1084.6	69.0
0° - 40°	1426.2	90.7
0° - 60°	1571.3	99.9
0° - 90°	1572.9	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	1572.9	*100.0
*Efficiency		

pf	20%								
pc	80%			70%			50%		
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	111	108	106	109	106	104	104	103	101
2	103	99	95	101	97	94	98	95	92
3	96	91	87	94	90	86	92	88	85
4	89	84	79	88	83	79	86	81	78
5	83	77	73	82	77	73	81	76	72
6	78	72	68	77	72	67	76	71	67
7	73	67	63	73	67	63	71	66	62
8	69	63	59	68	62	58	67	62	58
9	65	59	55	64	59	55	63	58	54
10	61	55	51	61	55	51	60	55	51

		50% beam - 54.5°		10% beam - 82.2°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	46.2	5.7	23.1	9.6	4.6
10.0	24.8	7.7	12.4	13.1	2.5
12.0	15.5	9.8	7.7	16.6	1.5
14.0	10.6	11.8	5.3	20.1	1.1
16.0	7.7	13.9	3.8	23.6	0.8

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



	Ave	Lumens
0	2786	
5	2877	284
15	3087	855
25	2289	1025
35	1049	682
45	350	277
55	5	12
65	2	2
75	1	1
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	2164.3	69.0
0° - 40°	2845.9	90.7
0° - 60°	3135.3	99.9
0° - 90°	3138.5	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	3138.5	*100.0
*Efficiency		

pf	20%								
pc	80%			70%			50%		
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	111	108	106	109	106	104	104	103	101
2	103	99	95	101	97	94	98	95	92
3	96	91	87	94	90	86	92	88	85
4	89	84	79	88	83	79	86	81	78
5	83	77	73	82	77	73	81	76	72
6	78	72	68	77	72	67	76	71	67
7	73	67	63	73	67	63	71	66	62
8	69	63	59	68	62	58	67	62	58
9	65	59	55	64	59	55	63	58	54
10	61	55	51	61	55	51	60	55	51

		50% beam - 54.5°		10% beam - 82.2°	
Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	92.1	5.7	46.1	9.6	9.2
10.0	49.5	7.7	24.8	13.1	5.0
12.0	30.9	9.8	15.4	16.6	3.1
14.0	21.1	11.8	10.5	20.1	2.1
16.0	15.3	13.9	7.6	23.6	1.5

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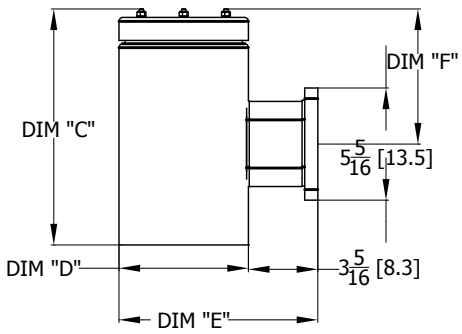
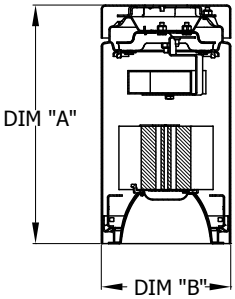
LDN6CYL

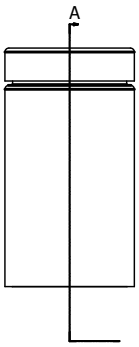
* All dimensions are inches (centimeters) unless otherwise noted.



LDN 6 INCH CYLINDER WALL MOUNT



LDN 6 CYLINDER



SECTION A-A
SCALE 1 : 1

DIMENSION TABLE							
LUMEN OUTPUT	**STYLE**	**DIM "A"**	**DIM "B"**	**DIM "C"**	**DIM "D"**	**DIM "E"**	**DIM "F"**
500-3000 LM	CEILING MOUNT (FCM)	11 5/16	8 1/8				
500-3000 LM	CEILING MOUNT WET LOCATION (FCM WL)	11 5/16	8 1/8				
500-3000 LM	PENDANT MOUNT (PM)	10 1/2	8 1/8				
500-3000 LM	PENDANT MOUNT WET LOCATION (PM WL)	11 1/2	8 1/8				
500-3000 LM	CABLE MOUNT (ACC)	10 5/16	8 1/8				
500-3000 LM	WALL MOUNT (WM)			10 1/16	8 1/8	11 1/2	6 3/8
500-3000 LM	WALL MOUNT WET LOCATION (WM WL)			11 3/16	8 1/8	11 1/2	6 3/8
4000-5000 LM	CEILING MOUNT (FCM)	11 3/8	10 1/4				
4000-5000 LM	CEILING MOUNT WET LOCATION (FCM WL)	11 3/8	10 1/4				
4000-5000 LM	PENDANT MOUNT (PM)	10 3/4	10 1/4				
4000-5000 LM	PENDANT MOUNT WET LOCATION (PM WL)	11 1/2	10 1/4				
4000-5000 LM	CABLE MOUNT (ACC)	10 3/8	10 1/4				
4000-5000 LM	WALL MOUNT (WM)			10 1/16	10 1/4	13 1/2	6 3/8
4000-5000 LM	WALL MOUNT WET LOCATION (WM WL)			11 3/16	10 1/4	13 1/2	6 3/8

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

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

LDN6CYL			
Nominal Lumens	**Lumens**	**Wattage**	**Lm/W**
500	527.9	5.8	90.5
750	758.1	8.9	85.1
1000	950.1	10.4	91.0
1500	1514	17.5	86.4
2000	2006	22.5	89.1
2500	2504	28.3	88.6
3000	3021	34.8	86.9
4000	4008	44.3	90.6
5000	4975	57.7	86.3

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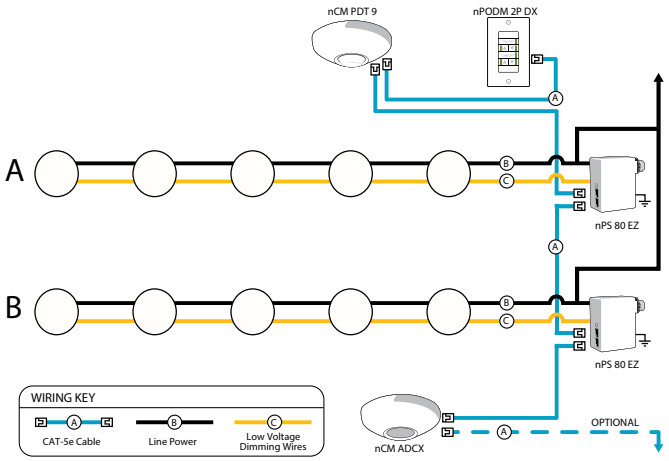
ADDITIONAL DATA

COMPATIBLE 0-10V WALL-MOUNT DIMMERS		
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron®	Diva® DVTV	
	Diva® DVSCTV	
	Nova T® NTFTV	
	Nova® NFTV	
Leviton®	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	
	IllumaTech® IP7 Series	
Synergy®	ISD BC	RDMFC
	SLD LPCS	
	Digital Equinox (DEQ BC)	
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V)	
	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis 0A2000FAMU	
Honeywell	EL7315A1019	EL7305A1010 (optional)
	EL7315A1009	
HUNT Dimming	Preset slide: PS-010-IV and PS-010-WH	
	Preset slide: PS-010-3W-IV and PS-010-3W-WH	
	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V	
	Preset slide, controls FD-010: PS-IFC-010-3W-IV and PS-IFC-010-3W-WH-120/277V	
	Remote mounted unit: FD-010	
Lehigh Electronic Products	Solitaire	PBX
PDM Electrical Products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DALInet Router
WattStopper®	LS-4 used with LCD-101 and LCD-103	



nLight® Control Accessories:
Order as separate catalog number.
Visit www.sensorswitch.com/nLight for complete listing of nLight controls.

WallPod stations	Model number
On/Off	nPODM [color]
On/Off & Raise/Lower	nPODM DX [color]
Graphic Touchscreen	nPOD GFX [color]
Photocell controls	**Model number**
Dimming	nCM ADCX

Occupancy sensors	Model number
Small motion 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9
Large motion 360°, ceiling (PIR / dual tech)	nCM 10 / nCM PDT 10
Wide view (PIR / dual tech)	nWV 16 / nWV PDT 16
Wall Switch w/ Raise/Lower (PIR / dual tech)	nWSX LV DX / nWSX PDT LV DX
Cat-5 cables (plenum rated)	**Model number**
10', CAT5 10FT	CAT5 10FT J1
15', CAT5 15FT	CAT5 15FT J1

A+ Capable Luminaire

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

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

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

*See ordering tree for details

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Linear LED Fixture Spec Sheet

GlowbackLED®

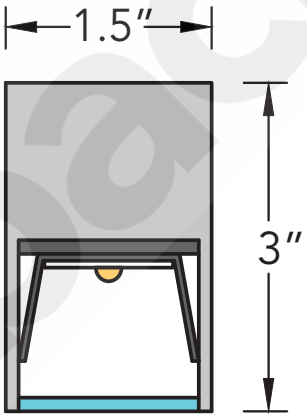
cULus LISTED

LVLBP1.5-XX-YY-ZZ
Pendant and Surface Mounted Linear Lighting

Quick Specs

Part #	LVLBP1.5-XX-YY-ZZ
Sizes	2ft, 4ft, 6ft, 8ft
Input Voltage	120-277VAC
Light Output	605 lumens/ft
Efficiency	77 lumens/Watt
Color Rendering	>80 (CRI over 90 available)
Environment	Dry or Damp Location
Warranty	5-Year
Lifetime	50,000-70,000+ Hours
Listings	UL-Listed
Dimming	Non-Dimmable Only

Dimensions



Available Color Temperatures

3000K
Warm White

4000K
Natural White

5000K
Bright White

Our 1.5″ x 3″ Linear LED Fixture is a high output linear light source suitabe for general lighting applications. It can be both **surface mounted**, or **pendant (suspended) mounted** with cables for a wide variety of residential, commercial, retail, and hospitality lighting applications.

This linear LED fixture is available in **2ft**, **4ft**, **6ft**, and **8ft** sizes as one single piece. Select "**linkable**" option for seam-less continous runs over 8ft.

Conveniently select from (3) standard color temperatures best suited to your space: **3000K** (Warm White), **4000K** (Natural White), **5000K** (Bright White).

Integral driver technology allows these fixtures to accept **universal 120-277VAC** input voltage within the compact aluminum housing.

Surface Mount View

Bluegate Inc. **Glowback**LED®
16409 NW 8th Ave
Miami Gardens, FL 33169
1-800-679-4902 • info@bluegateinc.com

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Specifications subject to change without notice

BLUEGATE

Linear LED Fixture Spec Sheet

GlowbackLED®

LVLBP1.5-XX-YY-ZZ
Pendant and Surface Mounted Linear Lighting

Surface Mounting

A Clip Mounting

B Direct-Screw Mounting

Pendant Mounting

Select Ceiling Type:

C Drywall/Solid mount to JBOX

B Drywall/Solid to remote JBOX

E Drop Ceiling mount to T-Bar

F High Bay mount to Structure

Run Type

Single Run:

2ft 4ft 6ft 8ft

Continous Run:
*Enter Length:*_____

Powered End Center End

Detailed Product Specs

Fixture Size	Part #	Net Size	Wattage	Lumen Output
2ft	LVLBP1.5-SO-24-XX	24"	16	1,210
4ft	LVLBP1.5-SO-46-XX	46"	31	2,420
6ft	LVLBP1.5-SO-68-XX	68"	47	3,630
8ft	LVLBP1.5-SO-90-XX	90"	62	4,840

LVLBP1.5-[ ]-[ ]-[ ]-[ ]-[ ]-[ ]

SO: 605lu/ft

24: 2ft
46: 4ft
68: 6ft
90: 8ft

WW: 3000K
NW: 4000K
BW: 5000K

SU: Surface
P: Pendant

Mount Type *See top of page*

S: Single Run
PE: Powered End
CE: Center Piece
EP: End Piece

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BLUEGATE

Linear LED Fixture Spec Sheet

GlowbackLED®

cULus LISTED

LVLBY23-XX-YY-ZZ
LVLBY23 Spec Sheet

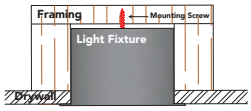
Our **LVLBY23** LED Light Fixture is perfect for use in commercial or residential areas. Our **LVLBY23** is a 2 inch wide line-voltage recessed linear LED light fixture capable of holding high output strips, making it suitable for a wide variety of linear lighting applications and an excellent solution for lighting garages, warehouses, or industrial lighting. With a slight flange, this fixture can be seamlessly recessed into any surface with at least 3" of depth while hiding any imperfections in the mounting surface. Our **LVLBY23** features an integrated driver that allows one to plug the fixture directly into the line-voltage power source of the location. This fixture is available in standard sizes ranging from 24"-96" ***custom sizes available upon request*** as one continuous run, or in longer runs which can be achieved through linkable or custom configurations.

Features

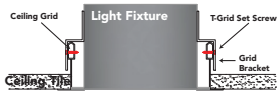
- **120-277VAC** or **347VAC Input**
- Standard >80 CRI, CRI>90 available!
- Flange **conceals** any rough cuts in wood and drywall
- 0-10V Dimmable (With Dimmable Driver)
- Ultra Long Lifetime (70,000+ Hours)
- UL-Listed
- **5-Year Warranty**

Mounting Options

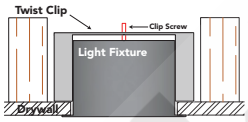
Direct Screw



Drop Ceiling



Twist Clip



Available Colors

3000K
Warm White

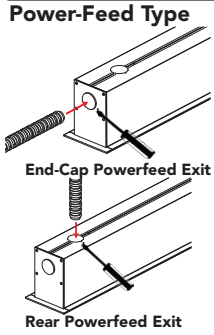
4000K
Natural White

5000K
Bright White

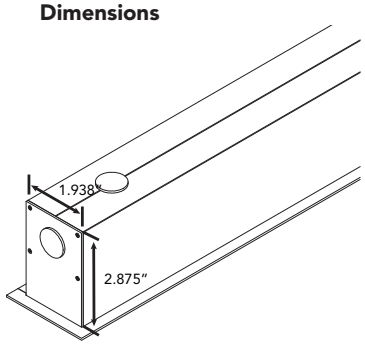
Quick Specs

Sizes	Any size from 4"-96" (Linkable For Long runs)
Input Voltage	120-277 or 347VAC
Power Output	Power Output Per Size **2ft:** 16W **4ft:** 31W **6ft:** 47W **8ft:** 62W
Light Output	Lumen Output Per Size **2ft**:1,210 **4ft**: 2,420 **6ft**: 3,630 **8ft**: 4,840
Efficiency	77 lumens/Watt (White)
Lifetime	70,000+ Hours (L-70)
Environment	Suitable for Dry or Damp Locations

Power-Feed Type



Dimensions



LVLBY23- [ ] - [ ] - [ ] - [ ] - [ ]

SO: 605 lu/ft

24: 2ft
46: 4ft
68: 6ft
90: 8ft

WW: 3000K
NW: 4000K
BW: 5000K

Mount Type
A: Direct-Screw
B: Drop-Ceiling
C: Twist-Clip

Power Entry
A: Rear
B: End-Cap

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BLUEGATE

FOCUS INDUSTRIES

landscape • entertainment • architectural • hospitality • *illumination*

DL-22
DIRECTIONAL LIGHTS

25301 COMMERCENTRE DRIVE • LAKE FOREST, CA 92630 • 949.830.1350 • 888.882.1350 • FAX 949.830.3390

DIRECTIONAL LIGHTS
DL-22-SERIES

LED READY

TYPE

SPECIFICATIONS

CONSTRUCTION: Cast aluminum, brass or 316 Stainless Steel Bullet; matching heavy duty cast aluminum, brass or 316 Stainless Steel adjustable swivel

LENS: High impact clear tempered convex glass

O-RING: High temperature red silicone

LAMP SUPPLIED: 20w MR16 FL(BAB) 5000 hours average rating (50w max)

LAMP OPTIONS: We recommend 50,000 hour ARROW 4w LED (-LED) or 40,000 hour 5w (-LED5) or 7w (-LED7) ARROW Super Saver LED

SOCKET: High temperature ceramic GU5.3 bi-pin with 250°C silicone lead wires

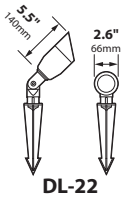
WIRING: Black 3 foot 18/2 zip cord from base of fixture (12v only)
For 25 foot 16/2 fixture lead wire add -25F to catalog number.

CONNECTION: FA-05 Quick Connector (not supplied) from fixture to main cable (12/2, 10/2 or 8/2 only)

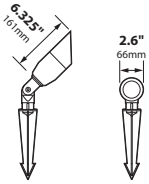
MOUNTING: FA-03 black 9" ABS stake threaded 1/2" NPS

FINISH: Aluminum-Black texture polyester powder coat. Optional finishes available. Brass-Unfinished brass. Optional finishes available. Stainless Steel - machined finish

Arrow LED
LEDS by CREE



DL-22



DL-22-XEC

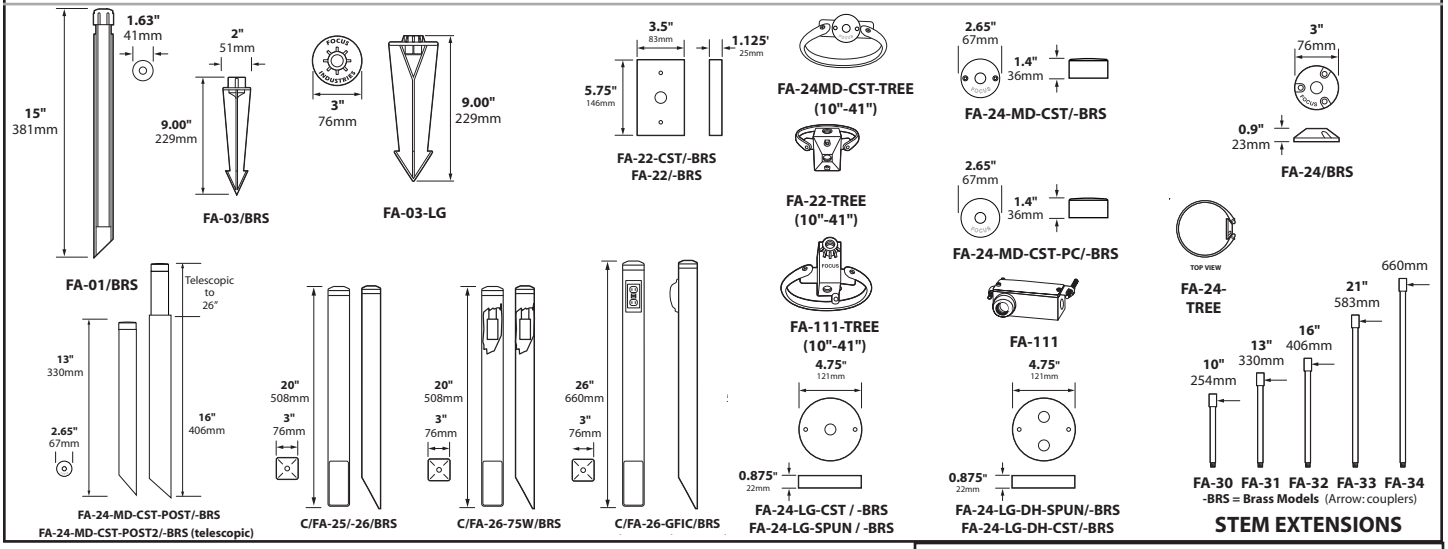
DL-22-BRS
mounted on
FA-24-BRS

IP65 CE cULus Intertek

ORDERING INFORMATION

CATALOG NO.	DESCRIPTION	LAMP	SHIP WEIGHT
DL-22-BLT	Cast aluminum Bullet	20w MR16 FL(BAB)	2.0 lbs.
DL-22-BRS	Cast brass Bullet	20w MR16 FL(BAB)	3.0 lbs.
DL-22-SS	Cast Stainless Steel Bullet	20w MR16 FL(BAB)	2.0 lbs.
DL-22-XEC-BLT	Cast aluminum Bullet, X-long collar	20w MR16 FL(BAB)	2.0 lbs.
DL-22-XEC-BRS	Cast brass Bullet, X-long collar	20w MR16 FL(BAB)	4.0 lbs.

MOUNTING ACCESSORIES



BEAM/GLARE CONTROL ACCESSORIES

FA-08-21	Round 1/8" Hex Cell Louver
FA-11-BLUE	Blue Tempered Glass Lens
FA-11-GREEN	Green Tempered Glass Lens
FA-98	Linear Spread Tempered Glass Lens
FA-99	High Impact Clear Tempered Convex Glass
FA-104	Wide Spread Tempered Glass Lens Softener

JOB INFORMATION

Type: Date:

Job Name:

Cat. No.:

Lamp(s):

Specifier:

Contractor:

Notes:

FOCUS INDUSTRIES INC.
25301 COMMERCENTRE DRIVE
LAKE FOREST, CA 92630

www.focusindustries.com
sales@focusindustries.com
(949) 830-1350 • FAX (949) 830-3390

Black Texture (Standard)	Antique Verde	Bronze Texture	Camel	White Texture	Hunter Texture	Rust	Weathered Iron	Weathered Brown	Stucco	Rubbed Verde	Chrome Powder		Acid Rust	Acid Verde	Black Acid Treatment
-BLT	*-ATV*	*-BRT*	*-CAM*	*-WTX*	*-HTX*	*-RST*	*-WIR*	*-WBR*	*-STU*	*-RBV*	*-CPR*		*-BAR/CAR*	*-BAV/CAV*	*-BAT*

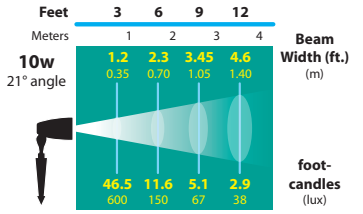
BRASS & COPPER ONLY

DIRECTIONAL LIGHTS
DL-22-SERIES

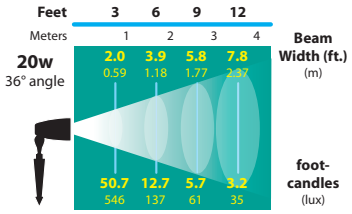
LED READY

TYPE

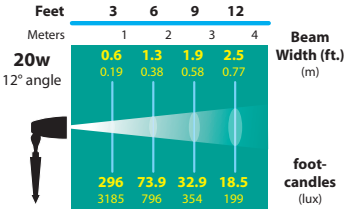
LIGHT DISTRIBUTIONS AND PHOTOMETRICS



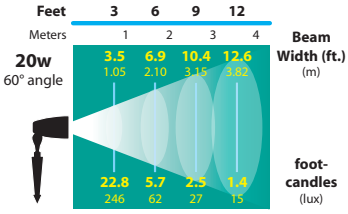
FL-13W-FG



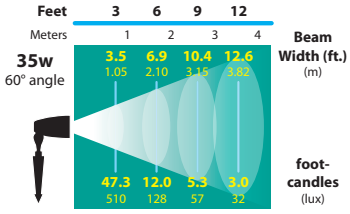
FL-13-BAB-FG



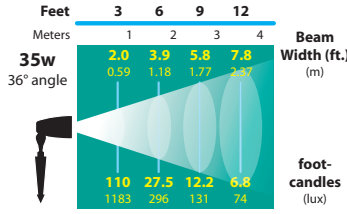
FL-13-ESX-FG



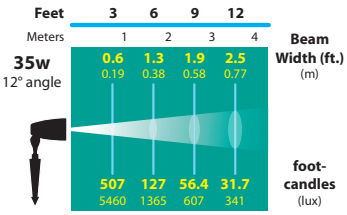
FL-13-VWFL-FG



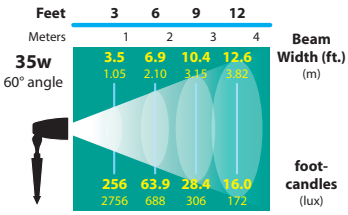
FL-15-FMW-60-FG



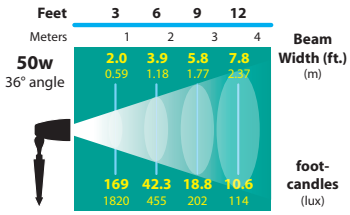
FL-15-FMW-FG
FL-15-FMW-ULTRA



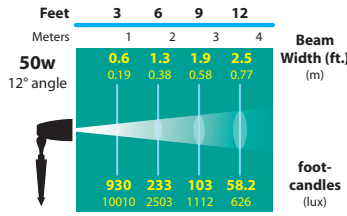
FL-15-FMT-FG



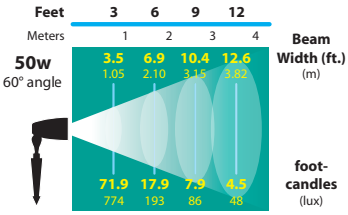
FL-15-FMV-FG
FL-15-FMV-ULTRA



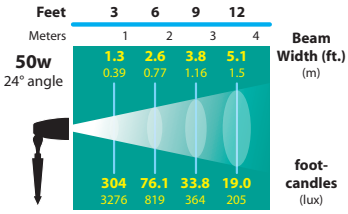
FL-10-EXN-FG
FL-10-EXN-ULTRA



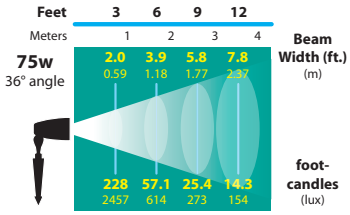
FL-10-EXT-FG
FL-10-EXT-ULTRA



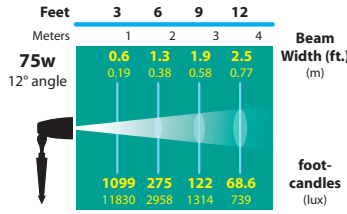
FL-10-VWFL-FG



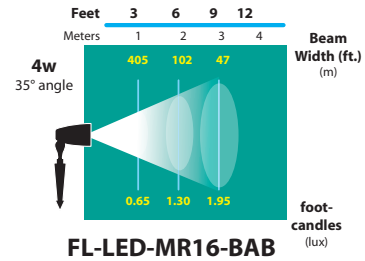
FL-10-EXZ-ULTRA



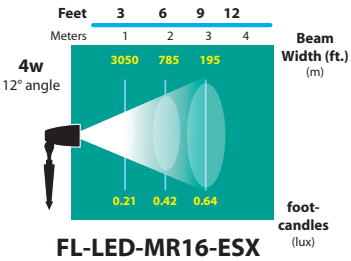
FL-13-EYC-FG



FL-20-EYF-FG



FL-LED-MR16-BAB



FL-LED-MR16-ESX

Black Texture (Standard)	Antique Verde	Bronze Texture	Camel	White Texture	Hunter Texture	Rust	Weathered Iron	Weathered Brown	Stucco	Rubbed Verde	Chrome Powder		Acid Rust	Acid Verde	Black Acid Treatment
-BLT	-ATV	-BRT	-CAM	-WTX	-HTX	-RST	-WIR	-WBR	-STU	-RBV	-CPR		-BAR/CAR	-BAV/CAV	-BAT

BRASS & COPPER ONLY

HYDREL

CATALOG NUMBER

NOTES

TYPE

M9410C/M9420C DESIGN2SHIP

In-Grade Luminaire

Specifications	SINGLE LENS	DOUBLE LENS
Length:	9"	9"
	229 mm	229 mm
Width:	9"	9"
	229 mm	229 mm
Height:	16"	16"
	407 mm	407 mm
Weight:	21lbs	23lbs

Weight is based on aluminum material

HIGHLIGHTS

- Factory-sealed LED lamp module and encapsulated power module
- Optical and mechanical aiming with an optional double lens
- Optimal efficiency through photometric improvements
- Color temperature: 27K - 50K
- In-line & 0-10V Dimming
- Seven distributions including very narrow spot & wall wash
- Flow-through technology

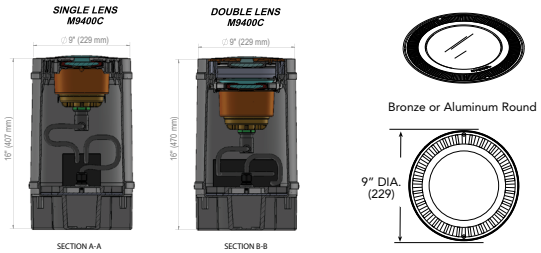
5 YEAR warranty

LED

IP68

DLC

DIMENSIONS

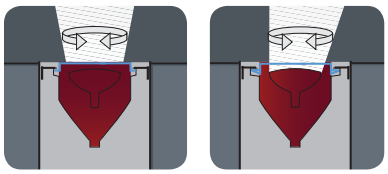


LUMEN PACKAGES

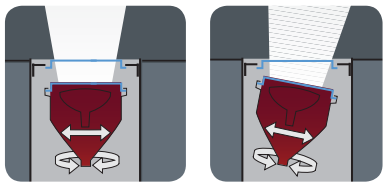
	VNSP	NSP	NFL	MFL	FL	WFL	WWD
Deliverd Lumens	2,425	2,527	2,426	2,154	2,254	1,955	1,550
Watts	20	20	20	20	20	20	20
LPW	119	128	123	109	114	99	78
Peak Candela	22,634	15,940	14,728	3,364	2,097	1,423	1,729

Note: Information based on 4000K @ P2 Performance Package - Single lens (M9410C)

AIMING DETAILS



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



Double lens, mechanically and optically aimed.

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ORDERING INFORMATION

EXAMPLE: M9420C QS A LED P3 40K MVOLT NSP FLC 34B

Model	Program	Door Material	Source	Performance Package	LED Color	Voltage
M9410C Round Door, Single Lens **M9420C** Round Door, Double Lens	**QS** Quick Ship (5 day shipping	**A** Aluminum	**LED**	**P1** 10W **P2** 20W **P3** 28W **P4** [1] 31W	**30K** 3000K **40K** 4000K	**MVOLT** (120 - 277 volt 50/60HZ)

Distribution	Lens	Conduit Entries
NSP Narrow Spot **VNSP** Very Narrow Spot **NFL** Narrow Flood **MFL** Medium Flood **FL** Flood **WFL** Wide Flood	**FLC** Flat Lens Clear	**34B** 3/4" NPT Bottom

ELECTRICAL LOAD

			Current (A)			
Light Engines	**Drive Current (mA)**	**System Watts**	120	208	240	277
P1	250mA	10	0.083	0.048	0.042	0.036
P2	500mA	20	0.167	0.096	0.083	0.072
P3	700mA	28	0.233	0.135	0.117	0.101
P4	850mA	31	0.258	0.149	0.129	0.112
P5	1050mA	14	0.117	0.067	0.058	0.051

PROJECTED LED LUMEN MAINTENANCE

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

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

Based on 2700K-5000K LED color

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.91	0.85	0.75
Lumen Maintenance Factor*	1.00	0.94	0.94	0.93

*For VNSP only

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

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

Based on 2700K-5000K LED color

Ambient		**Lumen Multiplier**	**Lumen Multiplier***
0°C	32°F	1.05	1.06
10°C	50°F	1.03	1.04
20°C	68°F	1.01	1.01
25°C	77°F	1	1
30°C	86°F	0.99	0.99
40°C	104°F	0.96	0.96

*For VNSP only

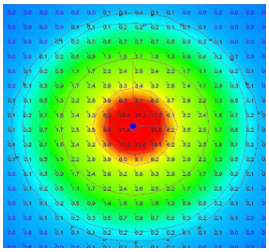
SLIP RESISTANCE AND LOAD RATING

M9400C LED
MAXIMUM LOAD RATING
Peak compression force of 7,700 lbs. (single lens), 2,550 lbs. (double lens).
LENS STATIC COEFFICIENT OF FRICTION
M9400C Anti-Slip Lens (FLCAS): Dry = 0.76; Wet = 0.10
M9400C Slip Resistant Lens (FLCR): Dry = 0.66; Wet = 0.67

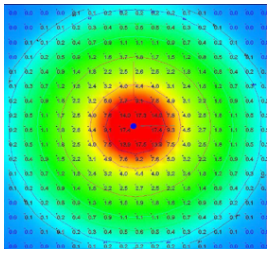
M9400C LED Series Assembly consists of the following individual components parts	MRISC94 Rough-In Housing MFSC94 Finishing Section MACSC LED Module MHSLC94 Power Module

Notes:
1 P4 not available with double lens.

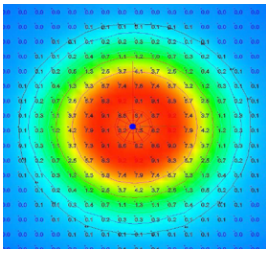
PERFORMANCE DATA



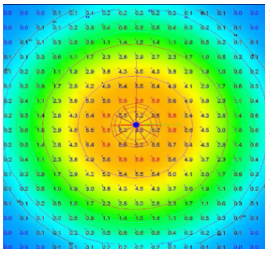
NSP 2x2



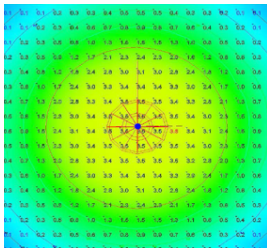
NFL 3x3



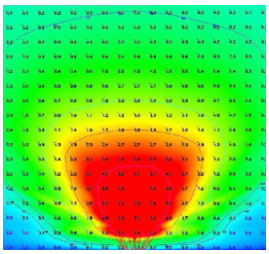
MFL 4x4



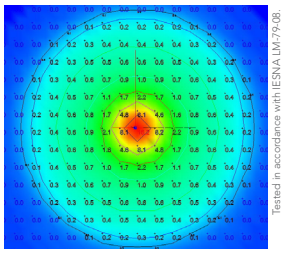
FL 5x5



WFL 6x6



WWD 6X5



VNSP 1X1

To see complete photometric reports or download .ies files for this product, visit www.hydrel.com

PERFORMANCE DATA

LUMEN OUTPUT — SINGLE LENS (M9410C)

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

Peformance Package	System Watts	Distribution Type	Field Angle		Beam Angle		27K (2700K, 80CRI)			30K (3000K, 80CRI)			35K (3500K, 80CRI)			40K (4000K, 80CRI)			50K (5000K, 80CRI)		
			°H	°V	°H	°V	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW
P1	10 watts	VNSP	27	28	12	12	11,378	1,219	121	11,774	1,262	125	12,125	1,299	129	12,389	1,328	131	12,433	1,332	132
		NSP	40	38	15	15	7,685	1,218	123	7,959	1,262	128	8,199	1,300	132	8,358	1,325	134	8,391	1,330	135
		NFL	34	35	15	15	7,101	1,169	118	7,354	1,211	123	7,576	1,248	126	7,722	1,272	129	7,753	1,277	129
		MFL	61	58	50	44	1,622	1,038	105	1,680	1,075	109	1,730	1,108	112	1,764	1,129	114	1,771	1,134	115
		FL	77	84	61	72	1,011	1,087	110	1,047	1,125	114	1,079	1,159	117	1,100	1,182	120	1,104	1,187	120
		WFL	93	85	77	68	686	942	95	711	976	99	732	1,005	102	746	1,025	104	749	1,029	104
		WWD	84	76	70	46	834	747	76	863	774	78	889	797	81	907	813	82	910	816	83
P2	20 watts	VNSP	27	28	12	12	20,788	2,228	109	21,511	2,305	113	22,153	2,374	116	22,634	2,425	119	22,715	2,434	119
		NSP	40	38	15	15	14,657	2,324	117	15,179	2,406	122	15,637	2,479	125	15,940	2,527	128	16,003	2,537	128
		NFL	34	35	15	15	13,542	2,230	113	14,025	2,310	117	14,448	2,379	120	14,728	2,426	123	14,787	2,435	123
		MFL	61	58	50	44	3,093	1,981	100	3,203	2,051	104	3,300	2,113	107	3,364	2,154	109	3,377	2,162	109
		FL	77	84	61	72	1,928	2,073	105	1,997	2,146	109	2,057	2,211	112	2,097	2,254	114	2,106	2,263	114
		WFL	93	85	77	68	1,309	1,797	91	1,355	1,861	94	1,396	1,917	97	1,423	1,955	99	1,429	1,962	99
		WWD	84	76	70	46	1,590	1,425	72	1,647	1,476	75	1,696	1,520	77	1,729	1,550	78	1,736	1,556	79
P3	30 watts	VNSP	27	28	12	12	26,186	2,806	95	27,096	2,904	98	27,905	2,990	101	28,512	3,055	103	28,613	3,066	103
	27 watts	NSP	40	38	15	15	19,329	3,064	112	20,017	3,173	116	20,622	3,269	119	21,021	3,333	122	21,105	3,346	122
		NFL	34	35	15	15	17,859	2,941	107	18,495	3,046	111	19,054	3,138	114	19,423	3,199	117	19,500	3,211	117
		MFL	61	58	50	44	4,079	2,612	95	4,224	2,705	99	4,352	2,787	102	4,436	2,841	104	4,454	2,852	104
		FL	77	84	61	72	2,543	2,733	100	2,634	2,831	103	2,713	2,916	106	2,766	2,972	108	2,777	2,984	109
		WFL	93	85	77	68	1,726	2,370	86	1,788	2,455	90	1,842	2,529	92	1,877	2,578	94	1,885	2,588	94
		WWD	84	76	70	46	2,097	1,879	69	2,171	1,946	71	2,237	2,005	73	2,280	2,044	75	2,289	2,052	75
P4	33 watts	NSP	40	38	15	15	22,891	3,629	109	23,707	3,758	113	24,423	3,872	117	24,895	3,947	119	24,994	3,963	119
		NFL	34	35	15	15	21,151	3,483	105	21,904	3,607	109	22,566	3,716	112	23,002	3,788	114	23,094	3,803	114
		MFL	61	58	50	44	4,831	3,093	93	5,003	3,203	96	5,154	3,300	99	5,254	3,364	101	5,275	3,377	102
		FL	77	84	61	72	3,012	3,237	97	3,119	3,352	101	3,213	3,454	104	3,275	3,520	106	3,289	3,534	106
		WFL	93	85	77	68	2,044	2,807	85	2,117	2,907	88	2,181	2,995	90	2,223	3,053	92	2,232	3,065	92
		WWD	84	76	70	46	2,483	2,226	67	2,572	2,305	69	2,649	2,375	71	2,701	2,421	73	2,711	2,430	73

OPERATING TEMPERATURE: -20°C through 50°C P1 & P2 & ; -20°C through 35°C P3; -20°C through 25°C P4.

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PERFORMANCE DATA

LUMEN OUTPUT — DOUBLE LENS (M9420C)

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

Peformance Package	System Watts	Distribution Type	Field Angle		Beam Angle		27K (2700K, 80CRI)			30K (3000K, 80CRI)			35K (3500K, 80CRI)			40K (4000K, 80CRI)			50K (5000K, 80CRI)		
			°H	°V	°H	°V	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW	Max Cd	Lumens	LPW
P1	10 watts	VNSP	31	31	14	14	9,137	950	94	9,455	983	97	9,737	1,012	100	9,949	1,034	102	9,984	1,038	103
		NSP	40	39	16	16	6,888	933	94	7,133	966	98	7,349	996	101	7,491	1,015	103	7,521	1,019	103
		NFL	38	37	16	15	5,558	788	80	5,755	816	83	5,929	840	85	6,044	856	87	6,068	860	87
		MFL	61	59	49	47	1,358	904	91	1,407	936	95	1,449	965	98	1,477	983	99	1,483	987	100
		FL	57	72	37	53	920	712	72	953	737	75	982	760	77	1,001	774	78	1,005	777	79
		WFL	66	66	52	53	726	506	51	752	524	53	775	539	55	790	550	56	793	552	56
P2	20 watts	VNSP	31	31	14	14	16,694	1,735	85	17,274	1,795	88	17,790	1,849	91	18,176	1,889	92	18,241	1,896	93
		NSP	40	39	16	16	13,136	1,780	91	13,604	1,843	94	14,015	1,899	97	14,286	1,936	99	14,343	1,943	99
		NFL	38	37	16	15	10,599	1,502	76	10,977	1,555	79	11,308	1,602	82	11,527	1,633	83	11,573	1,640	83
		MFL	61	59	49	47	2,590	1,724	88	2,683	1,786	91	2,764	1,840	94	2,817	1,875	95	2,829	1,883	96
		FL	57	72	37	53	1,755	1,358	69	1,818	1,406	72	1,872	1,449	74	1,909	1,477	75	1,916	1,482	75
		WFL	66	66	52	53	1,385	964	49	1,435	998	51	1,478	1,029	52	1,506	1,049	53	1,512	1,053	54
P3	27 watts	NSP	40	39	16	16	17,323	2,347	83	17,941	2,431	86	18,483	2,504	88	18,840	2,553	90	18,915	2,563	90
		NFL	38	37	16	15	13,978	1,981	70	14,476	2,051	72	14,913	2,113	74	15,202	2,154	76	15,262	2,163	76
		MFL	61	59	49	47	3,416	2,274	80	3,538	2,355	83	3,645	2,426	85	3,715	2,473	87	3,730	2,483	87
		FL	57	72	37	53	2,314	1,791	63	2,397	1,854	65	2,469	1,910	67	2,517	1,947	69	2,527	1,955	69
		WFL	66	66	52	53	1,827	1,271	45	1,892	1,317	46	1,949	1,357	48	1,987	1,383	49	1,995	1,388	49

OPERATING TEMPERATURE: -20°C through 50°C P1 & P2; -20°C through 40°C P3.

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SPECIFICATIONS AND FEATURES

INTENDED USE: The M9400C LED incorporates a modular design with a water-tight module and junction box intended for applications with flow-through capability. The design of the housing starts at the rough-in sections with a molded junction box and holes at the bottom, allowing a pathway for the water to flow through the housing and drain out the bottom. This product is ideal for all outdoor uplight applications, such as wall washing and feature accentuation.

DOOR MATERIAL: Cast aluminum. Available in round door trim. Finish is natural aluminum.

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

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

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

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

LIGHT ENGINE: Light engine consist of a chip-on-board (COB) LED directly coupled to the housing to maximize heat dissipation and promote long life (100,000 hrs, L75) and (100,000 hrs, L93 for VNSP). All within 3 MacAdam ellipses

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

ELECTRICAL: MVOLT (120-277) 50/60 Hz LED power supply. Class 2 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. 6 kv Surge protection meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

LISTING: cCSAus, suitable for wet locations, laboratory tests conducted by CSA to UL Standard UL-1598 and UL-8750. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/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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DESIGN2SHIP PROGRAM DETAILS

HOW TO ORDER

1. All Design2Ship orders should be activated through Agile. Orders must include the complete Design2Ship catalog number(s), which will include "QS" if part of the program.
2. Products not included in the Design2Ship program must be entered on a separate purchase order. *
3. Please be aware of the maximum order quantity listed on the product specification sheet. **
4. Please indicate any shipping notes or site restrictions.
5. Order Requirements
   a. Complete ship-to address
   b. Contact information
   c. Complete Quick Ship catalog number
   d. Pricing and commission rate

*Orders that include products not in the Design2Ship program will default to the longest lead time.

** If an order exceeds the product specification sheet quantity, then the following shall apply: If less than or equal to two times the maximum Design2Ship quantity, the order will be split into two delivery dates. The first shipment will go in 5 days, followed by the second in 10 days. If the order is more than two times the maximum Design2Ship quantity, then the order will not qualify as a Design2Ship order.

Maximum quantity of 25 per Quick Ship order

SHIPPING

Shipping lead time is 5 business days from date of clean release. All orders received after 3:30 p.m. EST will be processed the next business day and will receive an estimated ship date (ESD) from that date.

CHANGES/CANCELLATIONS

- Changes to the order are not permitted.
- Cancellation after release will result in a minimum 50% restocking fee.

NOTES

- Specifications subject to change without notice.
- Actual performance may differ as a result of end-user environment and application.

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BOXY

PROJECT:

MODEL #:

FIXTURE TYPE:

STANDARD SPECIFICATIONS

TRIM
Cold rolled steel, formed assembly. The trim is bolted to the pan during final assembly.

DIFFUSER
Translucent, UV stabilized 0.09" white acrylic. The diffuser is assembled from multiple pieces to present a clean design with sharp edges.

PAN
Cold rolled steel, formed with die punch tooling.

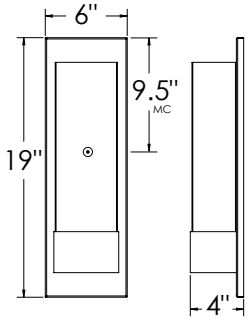
LED PERFORMANCE - 3500K STANDARD
120-277V - 3500K, 82 CRI - L80 rating - 60,000 hrs - L70 rating (projected) - 100,000 hrs
Amperage rated @ 110V input
Operating ambient temperature: -20°C / -4°F - 40°C / 104°F

Delivered 3500K lumens noted. Consult Brownlee.com for performance of all CCTs.
B06 - 6W nominal, .05 A input - 587 lm. Non-dimming.
B12 - 12W nominal, .10 A input - 1161 lm. Dimmable (0-10V).

MOUNTING
Directly to j-box (by others). Mounting hardware included.

FINISH
The standard finish is a sturdy electroplated brushed nickel. Options include all Brownlee paint finishes. Plated finishes such as Brushed Nickel are suitable for indoor applications only. Installation outdoors voids the Brownlee Limited Warranty.

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



BN finish

DAMP

ADA

SUPPORTS T24 COMPLIANCE

ORDERING INFORMATION

1345 - _____ - _____ - _____ - _____

Model | 2. | 3. | 4. | 5. (if required)

2. FINISH

STANDARD

BN Brushed Nickel

OPTIONAL

BL Black
BZ Bronze
GM Gun Metal
MB Metallic Bronze
MG Metallic Gold
NT Nickel Tone
PL Platinum
WH White

CUSTOM

Provide color sample or RAL code to match

3. WATTAGE

B06 6W B Series LED
B12 12W B Series LED

4. COLOR TEMPERATURE

35K 3500K standard color temperature
27K 2700K color temperature
30K 3000K color temperature
40K 4000K color temperature

5. AVAILABLE OPTIONS

90R[0] 90 CRI (3000K only)
BAC[1] Buy American Compliant
DTR[4] Triac (Line Voltage) Dimming (120V) (All except B06)
ES[6] ENERGY STAR® (Not available in 90 CRI)
FCL[7] French Canadian Labels
T24[9] Title 24 Compliant (B12 in 3000K only)

Notes: (0) 90R - cannot be combined with ES or T24 **(1) BAC** - cannot be combined with FCL **(2) BBI/BBS/BBC** - cannot be combined with DTR, ECW, EXT, or T24 **(3) BLD** - cannot be combined with DTR, OCC, or T24 **(4) DTR** - cannot be combined with BBI, BBC, BBS, BLD or T24 **(5) ECW** - cannot be combined with BBI, BBC, or DTR **(6) ES** - cannot be combined with 90R, FCL, or T24 **(7) FCL** - cannot be combined with BAC, ES, or T24 **(8) OCC** - cannot be combined with BLD **(9) T24** - cannot be combined with 90R, BBI, BBC, BBS, BLD, DTR, ES, or FCL **(10) BBS** - cannot be combined with BLD, DTR, ECW, EXT, OCC, or T24 **(11) PCH/PC4** - cannot be combined with BLD or OCC
Add'l Notes: *BBI/BBS/BBC - standard BBI (and BBS) option has a minimum operating temperature of 10C/50F. BBC option has a minimum operating temperature of -20C/-4F. ****BLD** - Bi-Level Dimming is field adjustable from 100% to a dimmed light level of 10, 20, 30, or 50%. All units are factory set at 50%.

Specifications and dimensions subject to change without notice.
Consult your Brownlee Lighting representative for availability and ordering information.

BROWNLEE LIGHTING
www.brownlee.com

REVISED 2020.08.24

FL0324D-VT FL0339D-VT FL0354D-VT

Vanity

Features

Housing
Aluminum Extrusion with Die-Form Cold-Rolled Steel Ends
Finish Option: -62 Satin Nickel -30 Oil Rubbed Bronze

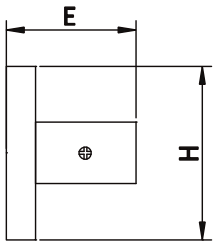
Optical
Shade: High Transmission Acrylic Create Excellent Light Distribution and Uniformity
LED: High Efficiency, High CRI, Binned and Mixed to Reach Uniform Light.

Electrical
High Power Factor, Low THD

Lamp
LED Type: Built-in (Color Temperature Option – 3000K, 3500K, 4000K, 5000K)

Certification
ETL/cETL Listed for Damp Locations, Energy Star

Warranty
5 Years Warranty on Driver and LED Module



LED Type

Model	Input Voltage	Input Wattage	LED CT / CRI	Lumen (TYP)	Finish	Dimension (L x H x E)	Energy Star
FL0324D-VT-xxxxK	120V ~ 277V	11W	3000K / >80	935	Satin Nickel	22.0" x 4.8" x 3.8"	Yes
FL0339D-VT-xxxxK	120V ~ 277V	18W	4000K / >80	1530	Satin Nickel	34.0" x 4.8" x 3.8"	Yes
FL0354D-VT-xxxxK	120V ~ 277V	23W	3000K / >80	1950	Satin Nickel	46.0" x 4.8" x 3.8"	Yes

Customer Service: 1-800-653-6556 **or** cs@destinationlighting.com
M-F: 7am-5pm **&** Sunday: 11am-4pm **(PST)**

4 Ft Track Section in Natural Finish Juno Trac Lites Collection

Product Number:	284907
Manufacturer:	Juno Lighting Group
Model Number:	R 4FT NAT
Collection:	Trac Lites
Manufacturer Finish:	Natural Aluminum
Voltage Type:	Line Voltage
Voltage Input:	120 v.
Circuit Type:	Single Circuit
Height:	0.5 in.
Width:	43.88 in.
Material:	Aluminum, Plastic
Shipping:	UPS Regular
Certification Agencies:	CUL, UL
Made In America:	No
Title 24:	No

4.8 ★★★★★
Google
Customer Reviews

DestinationLighting.

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

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

7W Medium Base LED Bulb PAR20 40 Degree Beam Spread 525LM 3000K Dimmable

Product Number:	P1509485 or 576170
Manufacturer:	Satco Lighting
Model Number:	S9406
Collection:	50W Replacement PAR20 LED Lamps
Total Wattage:	7 w.
Voltage Type:	Line Voltage
Voltage Input:	120 v.
Average Rated Life1:	25,000 hrs
Width:	2.5 in.
Length:	3.03 in.
Wattage:	7
Bulb Type:	LED
Bulb Shape:	PAR20
Base Type:	Medium
Bulb Color:	Clear
Bulb Dimmable:	Yes
Beam Spread Degree:	40
EnergyStar Compliant:	Yes
Shipping:	UPS Regular
Certification Agencies:	UL, CUL
Wet Location:	Yes
Damp Location:	Yes
Kelvin Temperature:	3000
Lumens:	525
Color Rendering Index:	80
Made In America:	No
Title 20:	Not Lawful for Sale in California

4.8 ★★★★★
Google
Customer Reviews

DestinationLighting.

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

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

Juno Trac-Lites Silver Conduit Feed

Product Number:	347492
Manufacturer:	Juno Lighting Group
Model Number:	R34 SL
Collection:	Trac-Lites
Manufacturer Finish:	Silver
Width:	3 in.
Shipping:	UPS Regular
Made In America:	No
Title 24:	No

4.8 ★★★★★
Google
Customer Reviews

DestinationLighting.

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

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

Flared Step Light Head for Juno Trac-Lites

Product Number:	65830
Manufacturer:	Juno Lighting Group
Model Number:	R551 WH
Collection:	Trac-Lites Line Voltage
Manufacturer Finish:	White
Total Wattage:	50 w.
Voltage Type:	Line Voltage
Voltage Input:	120 v.
Voltage Output:	120 v.
Circuit Type:	Single Circuit
Height:	4.38 in.
Width:	3.75 in.
Wattage:	50
Bulb Type:	Halogen
Bulb Shape:	PAR20
Base Type:	Medium
Number Of Bulbs:	1
Bulb Included:	No
EnergyStar Compliant:	No
Shipping:	UPS Regular
Weight:	1.2 lbs
Made In America:	No
Title 24:	No

4.8 ★★★★★
Google
Customer Reviews

DESCRIPTION

The Halo Surface LED Downlight (SLD) incorporates WaveStream™ technology to create an ultra-low profile surface mounting luminaire with the performance and look of a traditional downlight. SLD4 is designed for installation in many 3-1/2" and 4" round or octagon junction boxes. Dedicated LED wiring connector meets high-efficacy code requirement in recessed downlighting. Suitable for residential or commercial installations. Ideal for closets, storage areas, attics and basements. Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5).

Catalog #		Type
Project	UNIT KITCHEN, BATH, HALL	U1
Comments		Date
Prepared by		

SPECIFICATION FEATURES

CONSTRUCTION
- Die cast aluminum trim ring and die formed aluminum frame

OPTICS
- WaveStream™ technology provides uniform luminance from a low profile flat lens
- AccuAim™ optics provide directional control for the "cone-of-light" beam distribution of a traditional downlight
- Precision molded lens features high transmission polymer with UV stabilized protecting film

DESIGNER TRIMS
Accessories (sold separately)
SLD designer trims are accessory rings that attach to the SLD for a permanent finish. Refer to SLD accessories specification sheet for details.
- White (Paintable)
- Satin Nickel
- Tuscan Bronze

ELECTRICAL JUNCTION BOX MOUNTING
- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Suitable for installation in many 3-1/2" and 4" octagon and round electrical junction boxes.
  Note: Driver consumes 3 cubic inches of junction box.
- Installer must ensure compatibility of fit, wiring and proper mounting in the electrical junction box. This includes all applicable national and local electrical and building codes
- Proprietary Slot-N-Lock quick installation system for junction box installation
- T-bracket with Slot-N-Lock mounting tabs included

LED
- Trilateral linear LED assembly is integrated in trim perimeter.
- Color Temperature: 2700K, 3000K, 3500K, 4000K
- CRI options: 80 and 90
  - 90 CRI can be used for California Title 24 compliance/ certified to Title 20
  - 80 CRI can be used to comply with California Title 24 Non-Residential Lighting Controls as a LED luminaire.
- L70 at 50,000 hours projected in accordance with TM-21

WARRANTY
Cooper Lighting Solutions provides a five year limited warranty on the SLD LED

LED CHROMATICITY
- A tight chromaticity specification ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- LED chromaticity of 3 SDCM exceeds ENERGY STAR® color standards per ANSI C78.377-2008
- 90 CRI model features high color performance with R9 greater than 50
- Every Halo LED is quality tested, measured, and serialized in a permanent record to register lumens, wattage, CRI and CCT.
- Halo LED serialized testing and measurement ensures color and lumen consistency on a per-unit basis, and validates long-term product consistency over time

ELECTRICAL CONNECTIONS
Junction Box
- Compatible with many 3-1/2" x 2" and 4" x 1-1/2" round and octagon boxes (2-1/8" deep boxes recommended)
- Supply Wire Adapter with LED quick connector included

LED DRIVER
- Driver is a 120V input high efficiency, dimmable electronic power supply providing DC power to the LED array
- Driver features high power factor, low THD, and has integral thermal protection in the event of over temperature or internal failure.
- Driver is replaceable if it should be required

DIMMING
- Designed for continuous dimming capability to nominally 5% with many 120V Leading Edge (LE) and Trailing Edge (TE) phase control dimmers. Dimming to 5% is best assured using dimmers with low end trim adjustment. Consult dimmer manufacturer for compatibility and conditions of use. (Note some dimmers require a neutral in the wallbox.)

COMPLIANCE
- cULus Listed ceiling and wall
- cULus Damp Location listed ceiling and wall
- cULus Wet Location Listed, ceiling only (shower rated)
- Suitable for use in closets, compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5)
- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation

continued...

SLD4058xxWHJB
80CRI
2700K, 3000K, 3500K, and 4000K

SLD4059xxWHJB
90CRI
2700K, 3000K, 3500K, and 4000K

4" Surface LED Downlight

Suitable for ceiling or wall electrical junction boxes

ENERGY DATA

	80 CRI	90 CRI
Lumens (4000K models)	800	710
Input Voltage	120V	120V
Frequency	50/60 Hz	50/60 Hz
Input Current	0.10 A	0.10 A
Input Power	12.2 W	12 W
Efficiency (4000K models)	66 lm/W	59 lm/W
THD	≤ 20%	
Power Factor	≥ 0.90	
T Ambient	-30 - +40°C	
Sound Rating	Class A	

NOMENCLATURE

SLD 405 8 30 WH JB
405 = 4" SLD
8 = >80 CRI
30 = 3000K
WH = Matte White
JB = Junction Box kit only

80 CRI nominal CCT 2700K 3000K 3500K 4000K

Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.

90 CRI nominal CCT 2700K 3000K 3500K 4000K

Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.
Certified to California Title 20 Appliance Efficiency Database.

- EMI/RFI: meets FCC 47CFR Part 15 Class B limits, and is suitable for use in residential and commercial installations
- Airtight certified per ASTM E283 (not exceeding 2.0 CFM under 57 Pascals pressure difference)
- 90 CRI: Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.
- 80 CRI: Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED luminaire.
- Can be used for International Energy Conservation Code (IECC) and Washington State Energy Code high efficiency luminaire compliance
- ENERGY STAR® Certified luminaire - consult ENERGY STAR® Certified Product List
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79
- Lumen maintenance projections in accordance with IES LM-80 and TM-21

SLD4058xxWHJB

80CRI

2700K, 3000K, 3500K, and 4000K

SLD4059xxWHJB

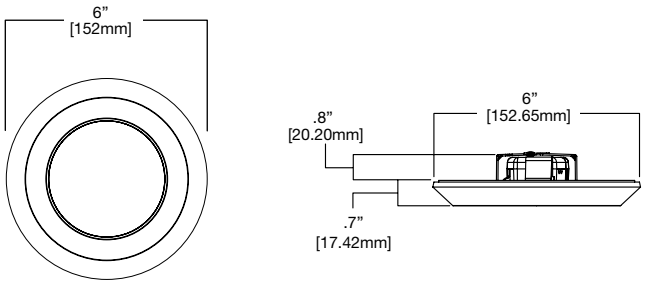
90CRI

2700K, 3000K, 3500K, and 4000K

4" Surface LED Downlight

Suitable for ceiling or wall electrical junction boxes

DIMENSIONS



ORDERING INFORMATION

SAMPLE NUMBER: SLD405830WHJB
Order junction box separately, as supplied by others, to complete installation.

Models	Color Rendering Index	Color Temperature (CCT)	Finish	JB
SLD405= 4" Surface LED Downlight, 120V	**8**=80 CRI **9**=90 CRI	**27**=2700K **30**=3000K **35**=3500K **40**=4000K	**WH**=White	**JB**=Junction Box kit

Accessories
Designer Trims Fit over the SLD4 for a designer finish **SLD4TRMSN**=4" SLD Satin Nickel **SLD4TRMTBZ**=4" SLD Tuscan Bronze **SLD4TRMWH**=4" SLD White (paintable) J-Box Spacer Extension Ring Add 15/16" depth when SLD driver cannot fit into installed junction box **SLD4EXT**=4" Surface LED J-Box Extender, 7.75" O.D. RAD Adapters When junction box is mounted flat on a ceiling or beam surface (not recessed in ceiling) **SLD4RAD**=4" SLD Round Surface J-Box Adapter, 6.15" O.D. (For 4-inch round or octagon junction boxes) Spare Parts **SLD4ACCKIT**=4" Accessory Parts Replacement Kit (Screwbase adapter, torsion springs, friction blades) **SLD4BRKT**=4" Junction Box Bracket & Screws Refer to SLD Accessories specification sheet for further information.

COMPATIBLE WITH COOPER LIGHTING SOLUTIONS' CROUSE-HINDS JUNCTION BOXES

TP316
for non-metallic cable
4” x 4” x 2-1/8”
(102mm x 102mm x 54mm)

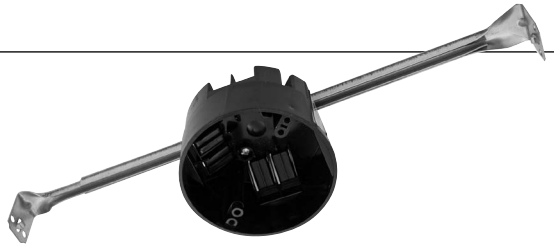
TP317
for metal clad cable
4” x 4” x 2-1/8”
(102mm x 102mm x 54mm)

- **TP316 -** for non-metallic cable
- **TP317 -** for metal clad cable
- UL Listed
- Refer to www.crouse-hinds.com

COMPATIBLE WITH MANY OTHER JUNCTION BOXES*

4" octagon light fixture/fan steel box
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

4" octagon steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)



4" round new work non-metallic box with hanger bar assembly
4" diameter x 2-3/16" (102mm x 56mm)

4" round new work non-metallic light fixture/fan box
4" diameter x 2-3/16"
(102mm x 56mm)

3-1/2" round new work non-metallic ceiling box
3-1/2" diameter x 2-3/4"
(89mm x 70mm)

3-1/2" round old work non-metallic box
4-1/4" O.D. flange, 3-1/2" I.D. x 2-5/8”
(108mm O.D., 89mm I.D. x 67mm)

4” round surface mount box
4" diameter x 1-1/2”
(102mm x 38mm)
Requires SLD4RAD adapter

*This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers’ products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Cooper Lighting Solutions makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Installer must determine that site conditions are suitable to allow proper installation of the SLD mounting bracket in the box.

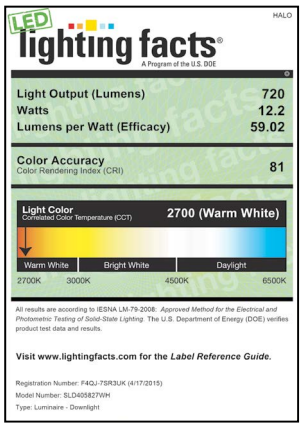
PRODUCT DATA

Cat No.	CRI	CCT	Lumens	Power (W)	LPW
SLD405827WH	81	2700	720	12.2	59
SLD405830WH	81	3000	750	12.2	61
SLD405835WH	81	3500	780	12.2	64
SLD405840WH	81	4000	800	12.2	66
SLD405927WH	92	2700	650	12	54
SLD405930WH	92	3000	670	12	56
SLD405935WH	92	3500	690	12	58
SLD405940WH	92	4000	710	12	59

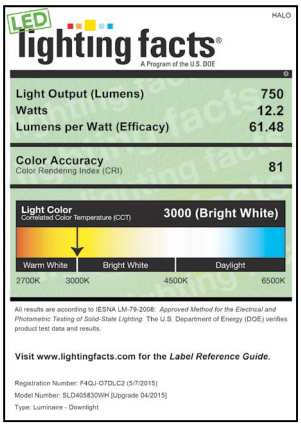
Performance values are presented as typical for the model(s) indicated. Field results may vary.

LIGHTING FACTS®

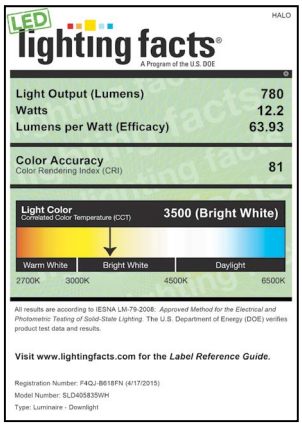
SLD405827WH - 80 CRI



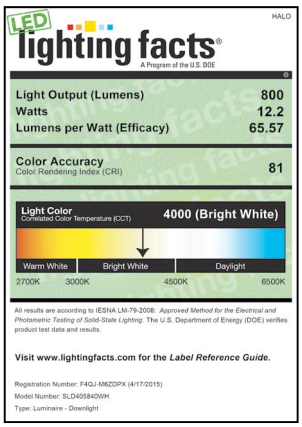
SLD405830WH - 80 CRI



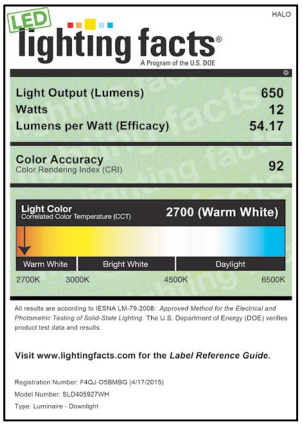
SLD405835WH - 80 CRI



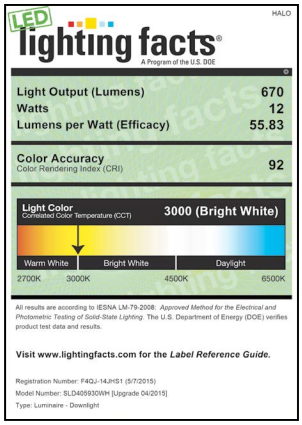
SLD405840WH - 80 CRI



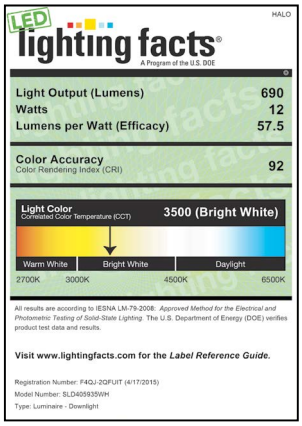
SLD405927WH - 90 CRI



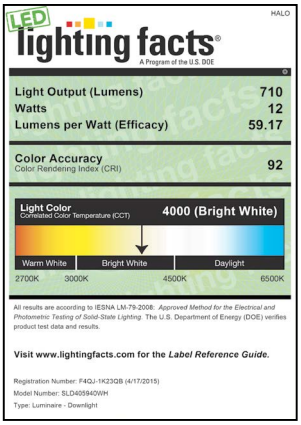
SLD405930WH - 90 CRI



SLD405935WH - 90 CRI



SLD405940WH - 90 CRI



COOPER Lighting Solutions

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

FERGUSON
VL60220

VANITY

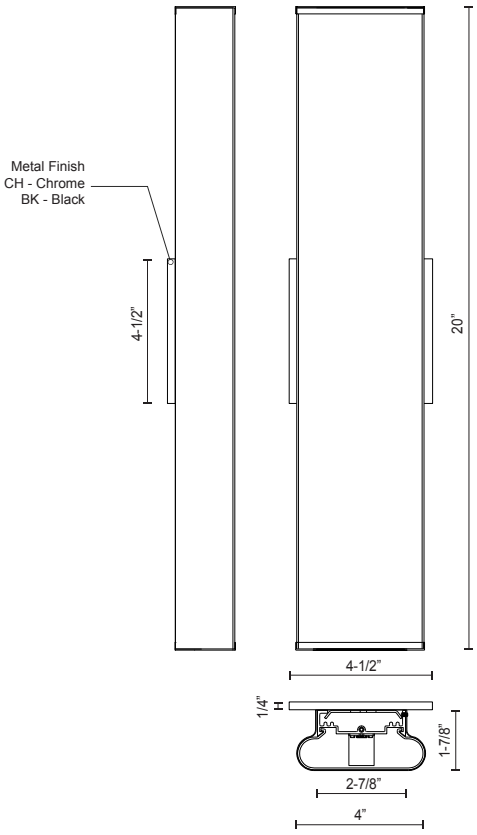
PROJECT

VL60220-BK
Black

VL60220-CH
Chrome

DESCRIPTION

An extruded oblong diffuser surrounds the LED source of the geometric vanity fixture and gently spreads light. Enclosed at the ends by two thick caps the design is characterized by minimal details and clever features. During installation the lamp assembly may slide on the mounting track to allow for ideal positioning. Adding to the versatile function are the multiple fixture lengths and mounting orientations. Optional installation without backplate for smaller junction boxes.



SPECIFICATION DETAILS

* For custom options, consult factory for details.

Fixture Dimensions	W20" x H4" x E1-7/8"
Light Source	LED
Wattage	20W
Total Lumens	1600lm
Delivered Lumens	BK-1226lm; CH-1270lm;
Voltage	120V
Color Temperature	3000K
CRI (Ra)	>90
Optional Color Temps	2700K - 5000K Available, Minimum Order Quantities Apply
LED Rated Life	50,000 hours
Dimming	100% - 10%, ELV Dimmer (Not Included)
Diffuser Details	White Acrylic Diffuser
Location	Damp
Warranty	5 Years
ADA Compliant	Yes
Canopy Dimensions	W4-1/2" x H4-1/2" x E1/4"

KUZCO

19054 28TH AVENUE
SURREY - BC V3Z 6M3
CANADA

WWW.KUZCOLIGHTING.COM

COMMENT

Intertek