

CM KLING + ASSOCIATES ARCHITECTURAL LIGHTING DESIGN 1020 CAMERON STREET ALEXANDRIA, VA 22314 +1 703 684 6270											
ARCHITECTURAL LIGHTING LUMINAIRE SCHEDULE											ISSUANCE: 100% DD
PROJECT: MADISON COLLEGE HISTORIC MIXED USE											DATE: 2023-12-07
GENERAL NOTES											
1	SHOULD THE CONTRACTOR WISH TO HAVE PRODUCTS OTHER THAN THOSE SPECIFIED CONSIDERED, THE ITEMS MUST BE SUBMITTED (14) DAYS IN ADVANCE OF THE BID. FAILURE TO SUBMIT WITHIN THAT DEADLINE CONSTITUTES A GUARANTEE THAT THE SPECIFIED PRODUCTS WILL BE SUPPLIED.										
2	CONTRACTOR SHALL PROVIDE A COMPLETE LIST OF ALL LAMPS WHICH WILL BE FURNISHED ON THE PROJECT. THIS LIST SHALL BE ORGANIZED ALPHABETICALLY BY LUMINAIRE TYPE INDICATED ON THE LUMINAIRE SCHEDULE, AND INCLUDE THE MANUFACTURER AND EXACT MODEL ORDERING CODE OF EACH LAMP.										
3	THE CONTRACTOR SHALL PROVIDE EXTRA MATERIALS AS DESCRIBED WITH A MINIMUM OF 1 FOR EACH CATEGORY: LAMPS 10% BUT NOT LESS THAN 6 OF EACH TYPE OF LAMP / LED LUMINAIRES: 10% BUT NOT LESS THAN 2 OF EACH LED DOWNLIGHT MODULE AND 4 OF EACH UNIQUE LENGTH OF LED CHANNEL / LED POWER SUPPLY: 5% BUT NOT LESS THAN 1 OF EACH TYPE OF DRIVER / LED LIGHTING CONTROL BOX: MINIMUM 1 PER TYPE / PLASTIC DIFFUSERS AND LENSES: 10% BUT NOT LESS THAN 1 OF EACH TYPE OF DIFFUSER, LENS, OR BAFFLE / GLOBES AND GUARDS: 5% BUT NOT LESS THAN 1 OF EACH TYPE OF GLOBE OR GUARD. LIST OF SPARE MATERIALS TO BE INCLUDED IN SUBMITTAL DOCUMENTATION.										
4	ALL EMERGENCY AND EXIT LIGHTING SHALL BE DESIGNED AND SPECIFIED BY THE ELECTRICAL ENGINEER.										
5	CONFIRM WITH ARCHITECT THE EXACT MOUNTING HEIGHT AFF.										
6	CONTRACTOR MUST PROVIDE UNIT PRICING TO THE ARCHITECT- FOR EACH FIXTURE TYPE COMPLETE WITH ALL ACCESSORIES AND LAMP.										
FIXTURE TYPE	DESCRIPTION	ITEM	MANUFACTURER	CATALOG NUMBER AND PERFORMANCE CRITERIA	SYSTEM WATTS	VOLTS	FINISH	APER. SIZE	MOUNTING	FIXT. DEPTH	NOTES
EXTERIOR											
KX1	WALL PACK - WIDE FLOOD	FIXTURE	BEGA	24134		BY EE					1.
		LAMP	BEGA								
		POWER SUPPLY	BEGA								
KX2	WALL SCONCE - NARROW BEAM DOWNLIGHT	FIXTURE	BEGA	24582		BY EE					1.
		LAMP	BEGA								
		POWER SUPPLY	BEGA								
KX2A	WALL SCONCE - VERY NARROW BEAM DOWNLIGHT, HIGHER OUTPUT	FIXTURE	BEGA	24582-MOD		BY EE					1.
		LAMP	BEGA								
		POWER SUPPLY	BEGA								
KX3	STEPLIGHTS	FIXTURE	BEGA	33058		BY EE					1.
		LAMP	BEGA								
		POWER SUPPLY	BEGA								
KX4	STOREFRONT MULLION MOUNTED DOWNLIGHT	FIXTURE	BEGA	24373		BY EE					1. FIXTURE FINISH TO MATCH MULLION AT EACH LOCATION 2. PHYSICAL FINISH SAMPLE REQUIRED WITH SUBMITTAL FOR REVIEW AND APPROVAL
		LAMP	BEGA								
		POWER SUPPLY	BEGA								
KX5	HOTEL COPING UPLIGHT - SINGLE	FIXTURE	TARGETTI	DART SMALL		BY EE					1. FIXTURE REQUIRES CUSTOM SHROUD
		LAMP	TARGETTI								
		POWER SUPPLY	TARGETTI								

KX5A	HOTEL COPING UPLIGHT AND DOWNLIGHT - DOUBLE	FIXTURE	TARGETTI	DART SMALL		BY EE					1. FIXTURE IS SYSTEM REQUIRING (2) LIGHT FIXTURES IN A SINGLE SHROUD ENCLOSURE 2. FIXTURE REQUIRES CUSTOM SHROUD
		LAMP	TARGETTI								
		POWER SUPPLY	TARGETTI								
KX6	RESIDENTIAL BOLLARDS AT WINDOW WELLS	FIXTURE	BEGA	88062		BY EE					1.
		LAMP	BEGA								
		POWER SUPPLY	BEGA								
KX7	HOTEL CAFÉ SEATING DOWNLIGHT WITH DROP GLASS	FIXTURE	BEGA	66057		BY EE			SURFACE		1.
		LAMP	BEGA								
		POWER SUPPLY	BEGA								
KX8	TYPE RESERVED FOR FUTURE USE	FIXTURE	TYPE RESERVED FOR FUTURE USE	TYPE RESERVED FOR FUTURE USE		BY EE					1.
		LAMP									
		POWER SUPPLY									
KX9	BI-DIRECTIONAL WALL SCONCE AT N CARROLL STREET ENTRANCE	FIXTURE	BEGA	22365		BY EE					1.
		LAMP	BEGA								
		POWER SUPPLY	BEGA								
KX10	HOTEL CAFÉ SEATING TABLE LAMP	FIXTURE	INTER-LUX	LIX		BY EE					
		LAMP	INTER-LUX								
		POWER SUPPLY	INTER-LUX								
KX11	SURFACE MOUNTED UPLIGHT IN NICHE	FIXTURE	INTER-LUX / LINEA	ORMA		BY EE			CUSTOM - SEE NOTES		1. FIXTURE REQUIRES CUSTOM ENCLOSURE
		LAMP	INTER-LUX / LINEA								
		POWER SUPPLY	INTER-LUX / LINEA								
KX12	RECESSED DOWNLIGHT UNDER CANOPY	FIXTURE	USAI	BEVELED 2.2		BY EE					1.
		LAMP	USAI								
		POWER SUPPLY	USAI								
KX13	PARAPET MOUNTED COLOR CHANGING MOONLIGHT AT COURTYARD	FIXTURE	LUMENPULSE	LUMENQUAD RGBW		BY EE			CUSTOM - SEE NOTES		1. FIXTURE REQUIRES CUSTOM CANTELEVER MOUNT
		LAMP	LUMENPULSE								
		POWER SUPPLY	LUMENPULSE								

KX14	EDGE LIT GLASS RAILING	FIXTURE	TO BE COORDINATED WITH ARCHITECT			BY EE					1. FIXTURE REQUIRES INTEGRATION WITH GLASS RAILING MANUFACTURER
		LAMP									
		POWER SUPPLY									
KX15	IN-GRADE UPLIGHT SYSTEM	FIXTURE	INTER-LUX / LINEA	SKIN UPLIGHT		BY EE					
		LAMP	INTER-LUX / LINEA								
		POWER SUPPLY	INTER-LUX / LINEA								
KX16	PAREPET MOUNTED MOONLIGHT AT TERRACE	FIXTURE	LUMENPULSE	LUMENQUAD LARGE		BY EE					1.
		LAMP	LUMENPULSE								
		POWER SUPPLY	LUMENPULSE								
KX17	ADJUSTABLE FLOODLIGHT FOR COURTYARD ARCH	FIXTURE	TARGETTI	DART LARGE		BY EE					
		LAMP	TARGETTI								
		POWER SUPPLY	TARGETTI								
KX18	ABOVE GRADE TREE UPLIGHT	FIXTURE	TARGETTI	BULLETO		BY EE					
		LAMP	TARGETTI								
		POWER SUPPLY	TARGETTI								
KX19	FEATURE TILE GRAZER	FIXTURE	LUMINII	KENDO M GRAZER WET		BY EE			OTHER - SEE NOTES		1. FIXTURE TO BE RECESSED IN TILE WALL COPING
		LAMP	LUMINII								
		POWER SUPPLY	LUMINII								
KX19A	LINEAR ACCENT	FIXTURE	LUMINII	KENDO S WET		BY EE					
		LAMP	LUMINII								
		POWER SUPPLY	LUMINII								
KX20	PORTE COCHERE LINEAR PERIMETER GRAZER	FIXTURE	INTER-LUX / WHITEGOODS	20 LINEAR PERIMETER REGRESSED		BY EE					
		LAMP	INTER-LUX / WHITEGOODS								
		POWER SUPPLY	INTER-LUX / WHITEGOODS								
KX21	BALCONY DIRECT / INDIRECT MULLION MOUNT	FIXTURE	INTER-LUX / WHITEGOODS	PROTOOLS 60 LINEAR MULLION MOUNT DIRECT / INDIRECT		BY EE					
		LAMP	INTER-LUX / WHITEGOODS								
		POWER SUPPLY	INTER-LUX / WHITEGOODS								

KX101	GARAGE LIGHTING	FIXTURE	SIGNIFY / GARDCO	SOFTVIEW SVPG GEN 3 W/ INIRECT		BY EE					
		LAMP	SIGNIFY / GARDCO								
		POWER SUPPLY	SIGNIFY / GARDCO								
KX102	BIKE ROOM LIGHTING	FIXTURE	BARTCO	BSS750 CORNER MOUNT		BY EE					
		LAMP	BARTCO								
		POWER SUPPLY	BARTCO								
KXD1	EXISTING POST LIGHTS AT N CARROLL STREET ENTRANCE	FIXTURE	EXISTING	EXISTING		BY EE			POLE		1. FIXTURE TO BE DE-INSTALLED, REPAIRED, REFURBISHED WITH NEW LIGHT ENGINE, AND REINSTALLED PER WRITTEN SPECIFICATIONS
		LAMP	NERI								
		POWER SUPPLY	NERI								
KXD2	PENDANT MOUNTED DECORATIVE IN W JOHNSON STREET ENTRANCE	FIXTURE	TO BE COORDINATED WITH ARCHITECT	TO BE COORDINATED BASED ON HISTORIC PRECEDENCE / KXD1 STYLING		BY EE					
		LAMP									
		POWER SUPPLY									
KXD3	LARGE SCALE DECORATIVE SCNCE AT W JOHNSON ENTRANCE	FIXTURE	TO BE COORDINATED WITH ARCHITECT	TO BE COORDINATED BASED ON HISTORIC PRECEDENCE / KXD1 STYLING		BY EE					
		LAMP									
		POWER SUPPLY									
KXD4	POINT OF LIGHT PANELIZED SYSTEM AT PORTE COCHERE	FIXTURE	TO BE COORDINATED WITH ARCHITECT			BY EE					
		LAMP									
		POWER SUPPLY									
KXD4A	POINT OF LIGHT PANELIZED SYSTEM AT ENTRANCES	FIXTURE	TO BE COORDINATED WITH ARCHITECT			BY EE					
		LAMP									
		POWER SUPPLY									
KXD5	COURTYARD ARCH PENDANT	FIXTURE	TO BE COORDINATED WITH ARCHITECT	TO BE COORDINATED BASED ON HISTORIC PRECEDENCE		BY EE					
		LAMP									
		POWER SUPPLY									

Application

Wall washer with light output in one direction. This luminaire is ideally suited for the even illumination of vertical mounting surfaces. Arranged individually or in groups, they are a great design element for a host of lighting applications. For downlight applications only.

Materials

Luminaire housing constructed of die-cast marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy
Clear safety glass with optical texture
Reflector made of pure anodized aluminum
Silicone applied robotically to casting, plasma treated for increased adhesion
High temperature silicone gasket
Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations
Protection class IP 65
Weight: 7.1 lbs

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-30° C
LED module wattage	16.8 W
System wattage	21.0 W
Controllability	0-10V dimmable
Color rendering index	Ra > 80
Luminaire lumens	1,083 lumens (4000K)
LED service life (L70)	60,000 hours

LED color temperature

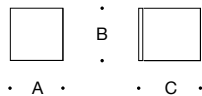
4000K - Product number + **K4**
3500K - Product number + **K35**
3000K - Product number + **K3**
2700K - Product number + **K27**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unidure® finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White, as well as optionally available RAL and custom colors, are a polyester powder.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS:



Wall Luminaire · Light emission on one side				
	LED	A	B	C
24 134	16.8 W	7	7	6 7/8

Type:
BEGA Product:
Project:
Modified:



Wall luminaires with directed light in one direction

Housing: One Piece, die cast aluminum housing with a one piece, die cast aluminum mounting plate. The mounting plate is supplied with a flat plate that mounts directly to a standard, recessed 4" octagonal wiring box. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

Enclosure: Clear tempered glass diffuser. Provided reflector made of pure anodized aluminum. Housing is secured to the mounting plate with two (2) mechanically captive, stainless steel set screws.

Electrical: 16.5W LED luminaire, 20 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an 85 CRI. Available in 4000K (85 CRI); add suffix K4 to order.

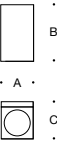
Note: Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP64

Weight: 7.1 lbs.

Luminaire Lumens: 1667



	Lamp		A	B	C
24582	16.5W LED	16°	5 7/8"	10 5/8"	6 7/8"

Application

LED recessed wall luminaire with asymmetrical light distribution for the illumination of ground surfaces, building entrances, stairs and footpaths.

Materials

- Luminaire housing constructed of die-cast aluminum marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy
- Clear safety glass
- Silicone applied robotically to casting, plasma treated for increased adhesion
- High temperature silicone gasket
- Mechanically captive stainless steel fasteners
- Stainless steel screw clamps
- Composite installation housing

NRTL listed to North American Standards, suitable for wet locations
Protection class IP65
Weight: 4.0 lbs

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-30° C
LED module wattage	12.3 W
System wattage	15.0 W
Controlability	0-10V
Color rendering index	Ra > 80
Luminaire lumens	1,000 lumens (3000K)
Lifetime at Ta=15°C	230,000 h (L70)
Lifetime at Ta=35°C	80,000 h (L70)

LED color temperature

- 2700K - Product number + **K27**
- 3000K - Product number + **K3**
- 3500K - Product number + **K35**
- 4000K - Product number + **K4**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

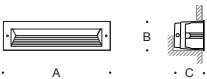
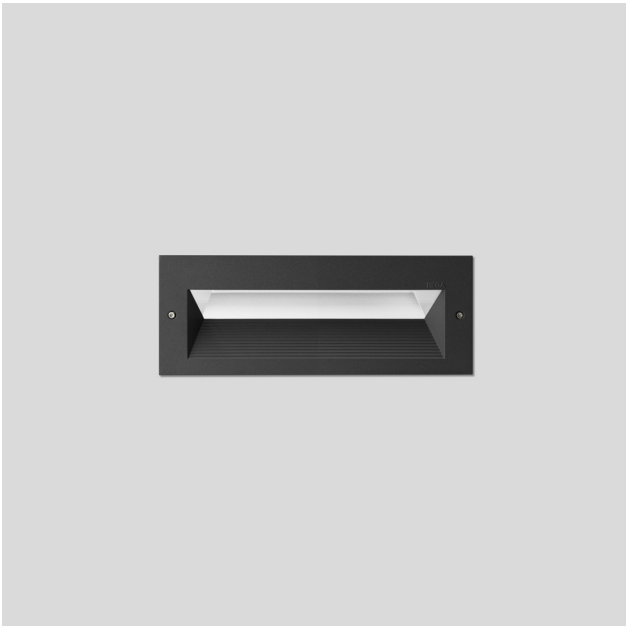
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS :

Type:
BEGA Product:
Project:
Modified:



Fully enclosed luminaire with installation housing ensures seamless integration and weathertight operation.



LED recessed wall luminaires · asymmetrical				
	LED	A	B	C
33058	12.3 W	13	5	5 ½

Application

LED wall mounted luminaires with directed light designed to be mounted at various heights for general purpose illumination or glare free illumination when below eye level.

Materials

Luminaire housing constructed of die-cast marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy
Matte safety glass
Silicone applied robotically to casting, plasma treated for increased adhesion
High temperature silicone gasket
Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations
Protection class IP65
Weight: 5.3lbs

Electrical

Operating voltage	120-277VAC
Minimum start temperature	-40° C
LED module wattage	18.4 W
System wattage	21.2 W
Controllability	0-10V, TRIAC, and ELV dimmable
Color rendering index	Ra > 80
Luminaire lumens	1,808 lumens (3000K)
Lifetime at Ta = 15° C	> 500,000 h (L70)
Lifetime at Ta = 40° C	138,000 h (L70)

LED color temperature

4000K - Product number + **K4**
3500K - Product number + **K35**
3000K - Product number + **K3**
2700K - Product number + **K27**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

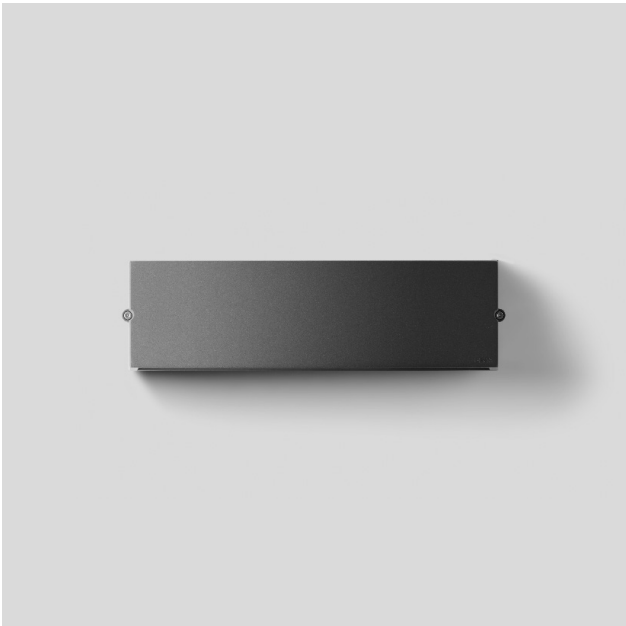
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS:



LED wall luminaires - directed				
	LED	A	B	C
24 373	ADA 18.4 W	16 3⁄8	4 3⁄4	3 7⁄8

Type:
BEGA Product:
Project:
Modified:

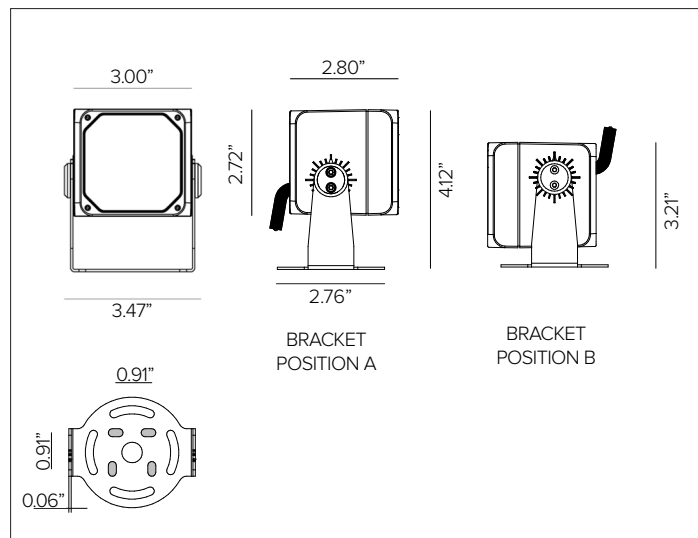


DART SMALL

Professional Adjustable Projector Floodlight



DART SMALL shown in Ferrite Dark Grey finish.



CONCEPT

Extremely small footprint fully adjustable LED floodlight projector.

MECHANICAL CHARACTERISTICS

Housing	3.00" W x 2.80"D
Materials	Die-cast aluminum powder coated body and joints for maximum heat dissipation. Marine Grade cataphoresis ^c available as optional.
Finish	Textured finish. <div> <div>● Ferrite Dark Grey</div> <div>● Heritage Brown</div> <div>● Bronze</div> <div>● Black</div> <div>● White</div> <div>● Sandstone Grey</div> </div>
Power Connection	Pre-cabled with 25' Belden direct burial 18ga 2 conductor cable for connection to remote power supply.
Functionality	Adjustable up to $\pm 45^\circ$ on the horizontal plane with slotted mounting base and $+90^\circ/-45^\circ$ on the vertical plane with aim locking set screw.
Mounting	Fixture can be installed directly to mounting surface or used with optional mounting installation accessories.
Weight	1.5lbs
Protection	IP66
Impact	IK10

CERTIFICATIONS

cULus Class 2 Wet Location Listed E479873.
 Tested in accordance with LM-79-08.
 Compliant for California installations.
 IEC 62471
 RoHS3 EU 215/863

WARRANTY

5 year limited warranty

SUSTAINABILITY

Luminaire designed for disposal/recycling at end-of-life. Replaceable LED light source and control gear by a Targetti technician.

ELECTRICAL CHARACTERISTICS

Power Supply	Remote Class 2 120V-277V AC power supply required, ordered separately.
Wattage	3W (NSP) / 15W nominal (SP / FL / MWFL)
Voltage	24V DC

SOURCE

NSP optic uses high efficiency LED Emitter. SP / FL / MWFL optics use high efficiency LED Chip on Board.

TM30	CCT (Nominal)	CRI	Rf	Rg	MR	SDCM
	2700K	81	80	97	2	2
	3000K	82	82	97	2	2
	3500K	82	81	97	2	2
	4000K	82	81	97	2	2

Ra90 available upon request.

OPTIC

Optical system is dependent on beam angle. NSP, SP and FL versions comprised with methacrylate lenses. MWFL version comprised of precision optics with convex reflective anodized aluminum facets.

Beam	NSP 9°	SP 17°	FL 32°	MWFL 46°
Delivered Lumens	3000K 147Lm 4000K 156Lm	1347Lm 1424Lm	1450Lm 1462Lm	1691Lm 1705Lm
<i>For 2700K lumen values use multiplier of 0.96 from 3000K. For 3500K lumen values use multiplier of 1.02 from 3000K.</i>				
Efficacy	25Lm/W max. Refer to photometric graphs for specific values.			
Lifetime	NSP: L80/B10 60,000hrs at max TA +25°C SP/FL: L80/B10 80,000hrs at max TA +25°C MWFL: L80/B10 100,000hrs at max TA +25°C			
Photobiological Classification	Low risk safety RG1			

DART SMALL

SPECIFICATION INFORMATION

DAS											
1	2	3	4	5	6	7	8	9	10	11	12

Ex: DASRPFEL1NS3024 / DIMLE301242UD

REQUIRED

OPTIONAL

1 - PRODUCT CODE	2 - DRIVER	3 - FINISH	4 - WATTAGE	5 - OPTIC	6 - KELVIN	7 - VOLTAGE
DAS — DART SMALL	RP — Remote Power	FE — Ferrite Dark Grey HB — Heritage Brown BZ — Bronze WT — White BT — Black SG — Sandstone Grey RAL — Custom RAL	L1 — 3W L2 — 15W	NS^a — NSP 9° SP — SP 17° FL — FL 32° MF — MWFL 46°	27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K	24 — 24V DC
8 - OPTIONAL	9 - POWER SUPPLY	10 - OPTICAL ACCESSORIES	11 - INSTALLATION ACCESSORIES	12 - TREE INSTALLATION ACCESSORIES		
MG^c — Marine Grade	Power Supply See section for details	Filter Holder Ring See section for details Blade of Light Linear Spread Lens See section for details Anti-glare Louver See section for details Asymmetric Snoot See section for details LumiShape See section for details	Rotational Bracket See section for details Back Plate See section for details Earth Spike See section for details	Tree Strap See section for details Fixture Brackets See section for details Wiring Connection Box See section for details Mesh Wire Protective Cover See section for details Installation Strap See section for details		

^B NSP optic not available in 2700K or 3500K.

^C Marine Grade is recommended for use in environments with ocational exposure to salt air, reclaimed water, fertilizers, chemical cleaners, or frequent pressure washing (steam) cleaning. Fixture housing complete with marine grade cataphoresis suitable for use in marine grade environments. Not to be in direct contact with salt or corrosive agents for extended periods of time.

DART SMALL

9 - POWER SUPPLY (REQUIRED)

ENCLOSURE								
Part No.	Wattage	Control	Dim Range	Rating	In / Out Voltage	Certification	Dimensions (Enclosure)	Description
DMLE301242UD	30W	MLV / ELV / 0-10V / TRIAC	MLV <10% / ELV <10% / 0-10V <5%	NEMA3R	120-277V / 24V	UL Class 2	4.47" X 6.79" X 1.38"	EMCOD MLE-UD electronic driver with wiring compartment.
DELV30124D JBX	30W	0-10V	1%	IP65	120-277V / 24V	UL Class 2	12.1" X 2.4" X 1.4"	Magnitude SOLIDrive electronic driver with built in junction box.
DMLE601242UD	60W	MLV / ELV / 0-10V / TRIAC	MLV <10% / ELV <10% / 0-10V <5%	NEMA3R	120-277V / 24V	UL Class 2	4.47" X 6.79" X 1.38"	EMCOD MLE-UD electronic driver with wiring compartment.
DELV60124DJBX	60W	0-10V	1%	IP65	120-277V / 24V	UL Class 2	12.1" X 2.4" X 1.4"	Magnitude SOLIDrive electronic driver with built in junction box.
DMLE961242UD	96W	MLV / ELV / 0-10V / TRIAC	MLV <10% / ELV <10% / 0-10V <5%	NEMA3R	120-277V / 24V	UL Class 2	5.16" X 7.73" X 1.54"	EMCOD MLE-UD electronic driver with wiring compartment.
DELV96124DJBX	96W	0-10V	1%	IP65	120-277V / 24V	UL Class 2	12.1" X 2.4" X 1.4"	Magnitude SOLIDrive electronic driver with built in junction box.
DMLE1922242UD	2X96W	MLV / ELV / 0-10V / TRIAC	MLV <10% / ELV <10% / 0-10V <5%	NEMA3R	120-277V / 24V	UL Class 2	5.04" X 10.94" X 1.81"	EMCOD MLE-UD electronic driver with wiring compartment.
DMLE2882242UD	3X96W	MLV / ELV / 0-10V / TRIAC	MLV <10% / ELV <10% / 0-10V <5%	NEMA3R	120-277V / 24V	UL Class 2	5.04" X 10.94" X 1.81"	EMCOD MLE-UD electronic driver with wiring compartment.

STANDALONE								
Part No.	Wattage	Control	Dim Range	Rating	In / Out Voltage	Certification	Dimensions (Standalone)	Description
DELV30124D	30W	0-10V	1%	IP65	120-277V / 24V	UR Class 2	7.5" X 2.4" X 1.4"	Magnitude SOLIDrive electronic standalone driver. UL listed enclosure provided by others.
DELV60124D	60W	0-10V	1%	IP65	120-277V / 24V	UR Class 2	7.5" X 2.4" X 1.4"	Magnitude SOLIDrive electronic standalone driver. UL listed enclosure provided by others.
DELV96124D	96W	0-10V	1%	IP65	120-277V / 24V	UR Class 2	7.5" X 2.4" X 1.4"	Magnitude SOLIDrive electronic standalone driver. UL listed enclosure provided by others.

MAX FIXTURES PER DRIVER					
Fixture Wattage	Driver Wattage				
	30W	60W	96W	2X96W	3X96W
	3W 8	16	25	25+25	25+25+25
15W	1	3	5	5+5	5+5+5

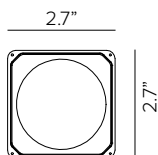
MAX CABLE DISTANCE						
Fixture Wattage	No. Fixtures	Load	18 AWG	16 AWG	14 AWG	12 AWG
3W	1-4	≤16W	72ft	115ft	180ft	290ft
	5-8	≤32W	42ft	67ft	106ft	165ft
	9-12	≤48W	28ft	44ft	70ft	112ft
	13-16	≤54W	20ft	33ft	52ft	84ft
	17-20	≤80W	16ft	26ft	41ft	66ft
15W	1	≤16W	72ft	115ft	180ft	290ft
	2	≤32W	42ft	67ft	106ft	165ft
	3	≤48W	28ft	44ft	70ft	112ft
	4	≤54W	20ft	33ft	52ft	84ft
	5	≤80W	16ft	26ft	41ft	66ft

*Voltage drop calculations are based on 3% max drop to last fixture in run for load and distances below

DART SMALL

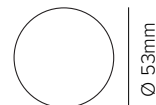
10 – OPTICAL ACCESSORIES (OPTIONAL)

MAXIMUM OF TWO ACCESSORIES PER FIXTURE.



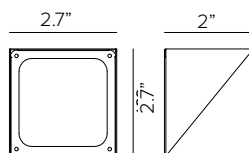
Filter holder ring. CNC machined anodized and powder coated aluminum. **Required for use of all filters.**

Part No. **1E3011** (*)



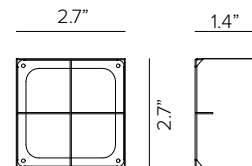
'Blade of Light' linear spread lens. PMMA holographic filter. **To be completed with 1E3011 dedicated holder ring. Does not apply toward maximum accessory count.**

Part No. **1E3012**



Asymmetric snoot. Powder coated stainless steel. Cutoff 30.4°. **Not compatible with 1E3014.**

Part No. **1E3013** (*)



Anti glare louver with removable baffles in deep black finish for different levels of glare control. Extrusion powder coat stainless steel. Cutoff 43.4°. **Not compatible with 1E3013.**

Part No. **1E3014** (*)

● Ferrite Dark Grey (Default) ● Heritage Brown (HB)* ● Bronze (BZ)* ● White (WT)* ● Black (BT)* ● Sandstone Grey (SG)*

***Add suffix to end of number to identify finish (EX. 1E3026HB)**



Water jet cut stainless steel round pinhole LUMISHAPE light shield. **Performs best with NSP or SP optic.**

Finish ● Deep Black

Part No. **LS05701**



Water jet cut stainless steel round circular LUMISHAPE light shield. **Performs best with SP or FL optic.**

Finish ● Deep Black

Part No. **LS05702**



Water jet cut stainless steel square pinhole LUMISHAPE light shield. **Performs best with NSP or SP optic.**

Finish ● Deep Black

Part No. **LS05703**



Water jet cut stainless steel square LUMISHAPE light shield. **Performs best with SP or FL optic.**

Finish ● Deep Black

Part No. **LS05704**



Water jet cut stainless steel half LUMISHAPE light shield. **Stackable up to 4pcs per fixture; 4pcs accounts to 1 accessory toward maximum accessory count. Performs best with FL or MFL optic**

Finish ● Deep Black

Part No. **LS05705**



Water jet cut stainless steel quarter LUMISHAPE light shield. **Stackable up to 4pcs per fixture; 4pcs accounts to 1 accessory toward maximum accessory count. Performs best with FL or MFL optic**

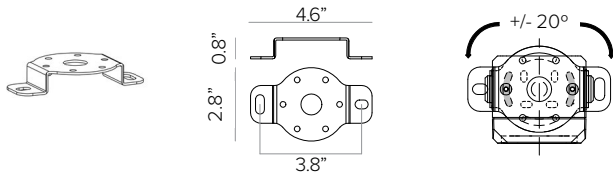
Finish ● Deep Black

Part No. **LS05706**

DART SMALL

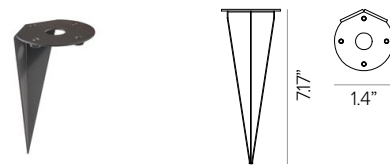
11 – INSTALLATION ACCESSORIES (OPTIONAL)

MAXIMUM OF ONE ACCESSORY PER FIXTURE



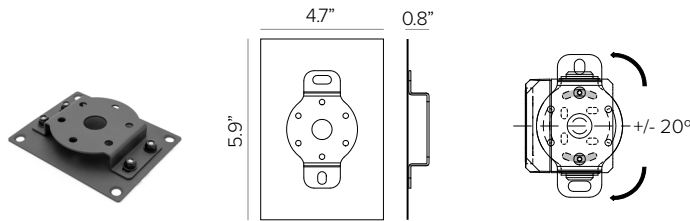
Rotational bracket for surface installation. Powder coated stainless steel.

Part No. **1E3015 (*)**



Earth spike. Powder coated stainless steel.

Part No. **1E3016 (*)**



Back plate with rotational bracket for wall mount installation. Powder coated stainless steel with Neoprene black foam. Included with 1E3026 and factory attached Stainless Steel black oxide bolts and locking nuts.

Part No. **1US3015 (*)**



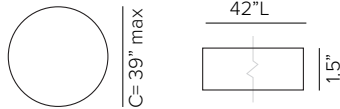
Ferrite Dark Grey (*Default*)
 Heritage Brown (**HB**)*
 Bronze (**BZ**)*
 White (**WT**)*
 Black (**BT**)*
 Sandstone Grey (**SG**)*

***Add suffix to end of number to identify finish (EX. 1E3026HB)**

DART SMALL

12 – TREE MOUNTING INSTALLATION (OPTIONAL)

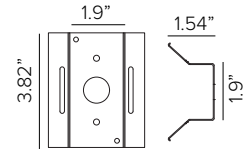
SINGLE STRAP FOR USE WITH OF UP TO 3 FIXTURES



Single tree strap comprised of durable Nylon webbing flexible strap with high strength aircraft aluminum V-ring buckle in Gunmetal finish and lock-in loop to prevent slipping. **Strap is made to coordinate with up to 3 fixtures and 1 wiring connection box. Strap fits trees 39" max circumference or smaller. (REQUIRED)**

Finish ● Olive Green ● Coyote Brown ● Graphite Grey

Part No. **TTS0101** **TTS0102** **TTS0103**



Fixture bracket comprised of powder coated stainless steel for use with tree strap. **Maximum of 3 brackets can be per single strap. (REQUIRED)**

Finish ● Ferrite Dark Grey ● Bronze

Part No. **TTBLT0101** **TTBLT0102**



Tree Strap Connection Box. Painted aluminum UL listed 9in³ j-box with 3ea 3/8" cable glands and 1ea 1/2" cable gland. Mounting bracket for tree strap included. Used to connect multiple 24V DC low voltage cables for one continuous cable connection down the tree to remote driver, additional cable provided by others. **Can be used for up to 3 fixture connections per tree strap. (OPTIONAL)**

Finish ● Ferrite Dark Grey ● Bronze

Part No. **TTCB0103FG** **TTCB0103BZ**

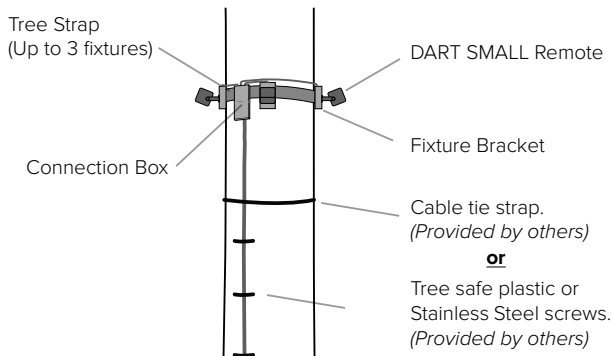


Mesh wire protection cover sleeve comprised of braided polyethylene terephthalate (PET) monofilament webbing resistant to chemical degradation, UV radiation and abrasion. 3/8" SJO Cord Sleeve, available per foot. **(OPTIONAL)**

Finish ● Carbon Grey ● Brown ● Forest Green

Part No. **TTSJS01** **TTSJS102** **TTSJS103**

WIRING CONFIGURATION



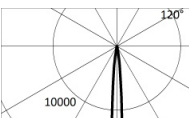
To be installed per local building code. Adjust the strap every 6 months in order to prevent tree damage.

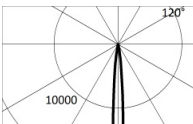
DART SMALL

PHOTOMETRY


IES FILES WATTAGE AND EFFICIENCY CALCULATIONS BASED WITH SUPPLIED DRIVER

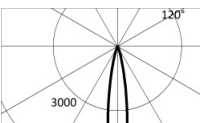
NARROW SPOT

	3000K	H(m)	D(m)	Emax(lx)	
	Ra80		9°		
	Fixture Power	3W	1	0.15	4041
	Source Flux	200lm	2	0.30	1010
	Fixture Flux	147lm	3	0.46	449
	Efficacy	54lm/W	4	0.61	253
	TS937 I _{max} =20203cd/klm	I _{max}	4041cd	5	0.76


	4000K	H(m)	D(m)	Emax(lx)	
	Ra80		9°		
	Fixture Power	3W	1	0.15	4283
	Source Flux	212lm	2	0.30	1071
	Fixture Flux	156lm	3	0.46	476
	Efficacy	58lm/W	4	0.61	268
	TS937 I _{max} =20203cd/klm	I _{max}	4283cd	5	0.76

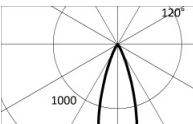
SPOT

	3000K	H(m)	D(m)	Emax(lx)	
	Ra80		17°		
	Fixture Power	15W	1	0.30	11214
	Source Flux	1913lm	2	0.61	2804
	Fixture Flux	1347lm	3	0.91	1246
	Efficacy	90lm/W	4	1.21	701
	TS1506 I _{max} =5862cd/klm	I _{max}	11214cd	5	1.52


	4000K	H(m)	D(m)	Emax(lx)	
	Ra80		17°		
	Fixture Power	15W	1	0.30	11853
	Source Flux	2022lm	2	0.61	2963
	Fixture Flux	1424lm	3	0.91	1317
	Efficacy	95lm/W	4	1.21	741
	TS1506 I _{max} =5862cd/klm	I _{max}	11853cd	5	1.52


FLOOD

	3000K	H(m)	D(m)	Emax(lx)	
	Ra80		32°		
	Fixture Power	14W	1	0.58	4295
	Source Flux	2146lm	2	1.15	1074
	Fixture Flux	1450lm	3	1.73	477
	Efficacy	107lm/W	4	2.31	268
	TS1507 I _{max} =2002cd/klm	I _{max}	4295cd	5	2.88

	4000K	H(m)	D(m)	Emax(lx)	
	Ra80		32°		
	Fixture Power	14W	1	0.58	4331
	Source Flux	2164lm	2	1.15	1083
	Fixture Flux	1462lm	3	1.73	481
	Efficacy	108lm/W	4	2.31	271
	TS1507 I _{max} =2002cd/klm	I _{max}	4331cd	5	2.88

MEDIUM WIDE FLOOD

	3000K	H(m)	D(m)	Emax(lx)	
	Ra80		46°		
	Fixture Power	14W	1	0.85	3048
	Source Flux	2146lm	2	1.70	762
	Fixture Flux	1691lm	3	2.54	339
	Efficacy	124lm/W	4	3.39	190
	TS1508 I _{max} =1421cd/klm	I _{max}	3050cd	5	4.24

	4000K	H(m)	D(m)	Emax(lx)	
	Ra80		46°		
	Fixture Power	14W	1	0.85	3073
	Source Flux	2164lm	2	1.70	768
	Fixture Flux	1705lm	3	2.54	341
	Efficacy	125lm/W	4	3.39	192
	TS1508 I _{max} =1421cd/klm	I _{max}	3075cd	5	4.24

Application

LED bollard with adjustable light distribution. Adjust internal casting to 0°, 15° or 30° angle in either direction for a variety of distribution options with a single luminaire. Designed for effective lighting of landscapes, pathways, and open spaces. Provided with mounting system that allows the luminaire to be adjusted independent of anchor bolt orientation.

Materials

Luminaire housing constructed of extruded marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy
Clear safety glass
Reflector made of pure anodized aluminum
High temperature silicone gasket

NRTL listed to North American Standards, suitable for wet locations
Protection class IP 65
Weight: 28.7 lbs

Electrical

Operating voltage	120-277VAC
Minimum start temperature	-30° C
LED module wattage	17.9W
System wattage	22.9W
Controllability	0-10V dimmable
Color rendering index	Ra > 90
Luminaire lumens	1236 lumens (3000K)
Lifetime at Ta = 15° C	410,000 h (L70)
Lifetime at Ta = 55° C	150,000 h (L70)

LED color temperature

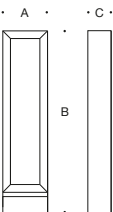
4000K - Product number + **K4**
3500K - Product number + **K35**
3000K - Product number + **K3**
2700K - Product number + **K27**

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS:



LED bollard · adjustable distribution					
	LED	A	B	C	Anchorage
88062	17.9W	10 3⁄8	43 7⁄8	5 1⁄4	79817

Type:

BEGA Product:

Project:

Modified:



Application

A very compact ceiling mounted downlight with partially frosted crystal glass. This luminaire is designed for down lighting atriums, canopies, passages and other interior and exterior locations.

Materials

Luminaire housing and faceplate constructed of die-cast marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy
Partially frosted crystal glass
Reflector made of pure anodized aluminum
High temperature silicone gasket

NRTL listed to North American Standards, suitable for wet locations

Protection class IP 65

Weight: 7.1 lbs

Electrical

Operating voltage	120-277VAC
Minimum start temperature	-30°C
LED module wattage	15.7 W
System wattage	22 W
Controllability	0-10V, TRIAC, and ELV dimmable to 1%
Color rendering index	Ra > 90
Luminaire lumens	1,985 lumens (4000K)
LED service life (L70)	60,000 h

LED color temperature

4000K - Product number + **K4 (EXPRESS)**

3500K - Product number + **K35**

3000K - Product number + **K3 (EXPRESS)**

2700K - Product number + **K27**

Amber - Product number + **AMB**

Wildlife friendly amber LED - Optional

Luminaire is optionally available with a narrow bandwidth, amber LED source (585-600nm) approved by the FWC. This light output is suggested for use within close proximity to sea turtle nesting and hatching habitats. Electrical and control information may vary from standard luminaire.

LED module wattage	18.0 W (Amber)
System wattage	21.3 W (Amber)
Luminaire lumens	434 lumens (Amber)

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS:

Type:

BEGA Product:

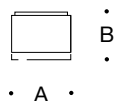
Project:

Modified:

Available options

FSC Fusing

See individual accessory spec sheet for details.

**Surface mounted downlight** · Partially frosted crystal glass

	LED	β	A	B
66 057	15.7 W	53°	7½	6%

β = Beam angle

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com
© copyright BEGA 2019 Updated 11/10/21

Application

This LED wall mounted luminaire has light output in two directions. Arranged individually or in groups, it is a great design element for a host of lighting applications.

Materials

Luminaire housing and constructed of die-cast marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy
Matte safety glass
High temperature silicone gasket
Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations
Protection class IP 65
Weight: 4.2lbs

Electrical

Operating voltage	120-277VAC
Minimum start temperature	-20° C
LED module wattage	15.4 W
System wattage	20.5 W
Controllability	0-10V, TRIAC, and ELV dimmable
Color rendering index	Ra > 80
Luminaire lumens	1663 lumens (3000K)
LED service life (L70)	60,000 hours

LED color temperature

4000K - Product number + **K4**
3500K - Product number + **K35**
3000K - Product number + **K3**
2700K - Product number + **K27**
Amber - Product number + **AMB**

Wildlife friendly amber LED - Optional

Luminaire is optionally available with a narrow bandwidth, amber LED source (585-600nm) approved by the FWC. This light output is suggested for use within close proximity to sea turtle nesting and hatching habitats. Electrical and control information may vary from standard luminaire.

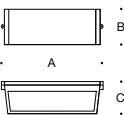
LED module wattage	12.0 W (Amber)
System wattage	15.7 W (Amber)
Luminaire lumens	344 lumens (Amber)

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

Available colors	Black (BLK)	White (WHT)	RAL:
	Bronze (BRZ)	Silver (SLV)	CUS:



LED wall luminaire · light output on two sides

	LED	A	B	C
22365	ADA 15.4 W	12 ½	4 ¾	4

Type:

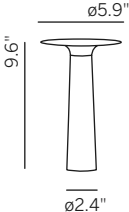










BEGA Product:

Project:

Modified:



Portable Outdoor Table Lamp
Dim To Amber

lix		color	item no.	system performance
		true gold	93930-TG	4.2 W/200 lm
		bright bronze	93930-BB	4.2 W/200 lm
		pearl white	93930-PW	4.2 W/200 lm
		jet black	93930-JB	4.2 W/200 lm
		frozen silver	93930-FS	4.2 W/200 lm
		aubergine	93930-AU	4.2 W/200 lm
		midnight	93930-MN	4.2 W/200 lm
		ruby	93930-RU	4.2 W/200 lm
		sage	93930-SE	4.2 W/200 lm
		sun	93930-SU	4.2 W/200 lm



technical information:
LED
lithium-ion battery
2x 2600mAh
Dim to amber 2700-1800K

battery operating time:
· approx. 5 hrs at 100% (level 4)
· approx. 10 hrs at 50% (level 3)
· approx. 20 hrs at 25% (level 2)
· approx. 45 hrs at 10% (level 1)

3.9ft White USB-C-cable included
(US-ET-93930-USB-C-WH)

material:
aluminum die-casting lacquered
polycarbonate matte

protection class:
IP44



light direction:



ORMA Trim Adjustable Wall Washer

inter•lux



General: Orma is a compact and shallow family of round LED in-grades suitable to illuminate outdoor architectural elements such as facades, columns as well as landscape and pathway lighting.

The overall depth of roughly 3" including the housing makes it one of the most compact fixtures on the market. The new trimless version combines style and performance in a package that includes multiple beam spreads, color temperatures, the choice to use Constant Current or Constant Voltage and new housings for either concrete or tile applications. Orma's special optics like Blade (spreading light 180°).

Fixture Body: Die-Cast Aluminum 6060, anodized black (15 µm)

Trim: Flush (Stainless Steel) or Semi-Flush (Stainless Steel or Brass) Trim. Brass is untreated and will patina naturally. Extra-clear, Tempered glass.

Mounting/Housing: Black, ABS housings available for both Concrete or Tile Flush installation.

Drive-over: 2.1"/2.5" up to 4,409 lbs.

Walk-over: 3.3"/3.8"/4.9"/5.4" walk-over.

Dimensions (Flush – Semi-Flush)/Weight: 2.1"/2.5" (0.44 lbs) – 3.3"/3.8" (1.1 lbs) – 4.9"/5.4" (1.98 lbs)

Driver: Remote, 120-277V Dimmable 0-10V or Non-Dim. Available in both Constant Current (CC) and Constant Voltage (CV) to leave flexibility of installation.

CC features: Less susceptible to voltage drop (exceeding 32' distance); Allows for dimming down to 0.1%; Fixtures need to be wired in series.

CV features: Possibility to use higher wattage drivers and feed multiple fixtures with less drivers; fixtures need to be wired in parallel.

Wattages (CC/CV): 4W/5W (2.1" & 2.5") – 8W/9W (3.3" & 3.8") – 12W (4.9" & 5.4" - CC Only)

Cable: Fixture comes with 3.28' of power cable and built-in Aquastop® (anti-wicking) system

IP rating: IP68 for temporary submersion up to 15' depth for up to a maximum of 90 mins.

IK rating: IK 10

ETL Certification: ETL, wet location

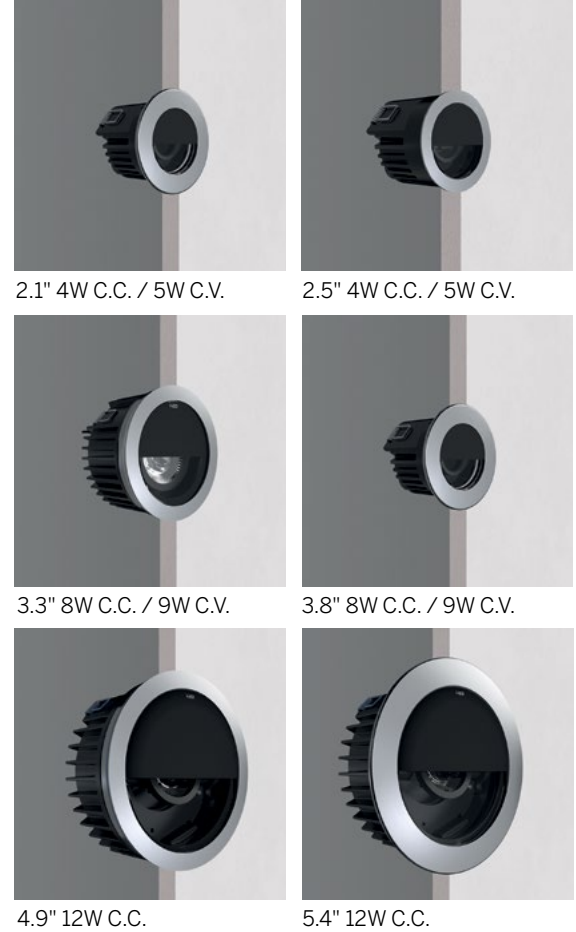
Optics: Adjustable Wall Washer (tilts up to 25°, in 5° increments). Optic adjustability from side of fixture, which avoids having to open the trim.

Color temperatures: 2700K – 3000K – 4000K.

CRI: 80+

Lumen Maintenance: L70 projections tested at Tj 65° C and Ta 25°.

Warranty: 5-year Limited Warranty on fixtures. 1-year Limited Warranty on Remote Drivers.



2.1" 4W C.C. / 5W C.V.

2.5" 4W C.C. / 5W C.V.

3.3" 8W C.C. / 9W C.V.

3.8" 8W C.C. / 9W C.V.

4.9" 12W C.C.

5.4" 12W C.C.

Delivered Lumens*	2.1"/2.5"	3.3"/3.8"	4.9"/5.4"
Wall Washer/ Asymmetric	130	313	598

*Values shown for 3000K

Ordering Information							(Required)	
Product	Trim	Type	Diameter	Operation/Wattage	Color Temp	Optic	Housing ³	Driver ³
OR = ORMA	FT = Flush Trim St. Steel ¹ SFST = Semi-Flush St. Steel Trim ² SFBT = Semi-Flush Brass Trim ²	WW = Wall Washer	21 = 2.1" (FT)	4 CC = 4W / Constant Current (350mA) 5 CV = 5W / Constant Voltage (24VDC)	27 = 2700K 30 = 3000K 40 = 4000K	AS = Asymmetric	E99650 (2.1", 2.5") E83251 (2.1", 2.5") E99560 (2.1") E99855 (2.1") E99651 (3.3", 3.8") E83252 (3.3", 3.8") E99563 (3.3") E99856 (3.3") E99652 (4.9", 5.4") E83253 (4.9", 5.4") E99564 (4.9") E99857 (4.9")	CC: EC030W-XXX SOLO50W-XXX SOLO100W-XXX CV: OT96-D010 OT96-JBX
			25 = 2.5" (SFST/SFBT)	4 CC = 4W / Constant Current (350mA) 5 CV = 5W / Constant Voltage (24VDC)				
			33 = 3.3" (FT)	8 CC = 8W / Constant Current (220mA) 9 CV = 9W / Constant Voltage (24VDC)				
			38 = 3.8" (SFST/SFBT)	8 CC = 8W / Constant Current (220mA) 9 CV = 9W / Constant Voltage (24VDC)				
			49 = 4.9" (FT)	12 CC = 12W / Constant Current (350mA)				
			54 = 5.4" (SFST/SFBT)	12 CC = 12W / Constant Current (350mA)				

¹ 2.1", 3.3", 4.9" ONLY

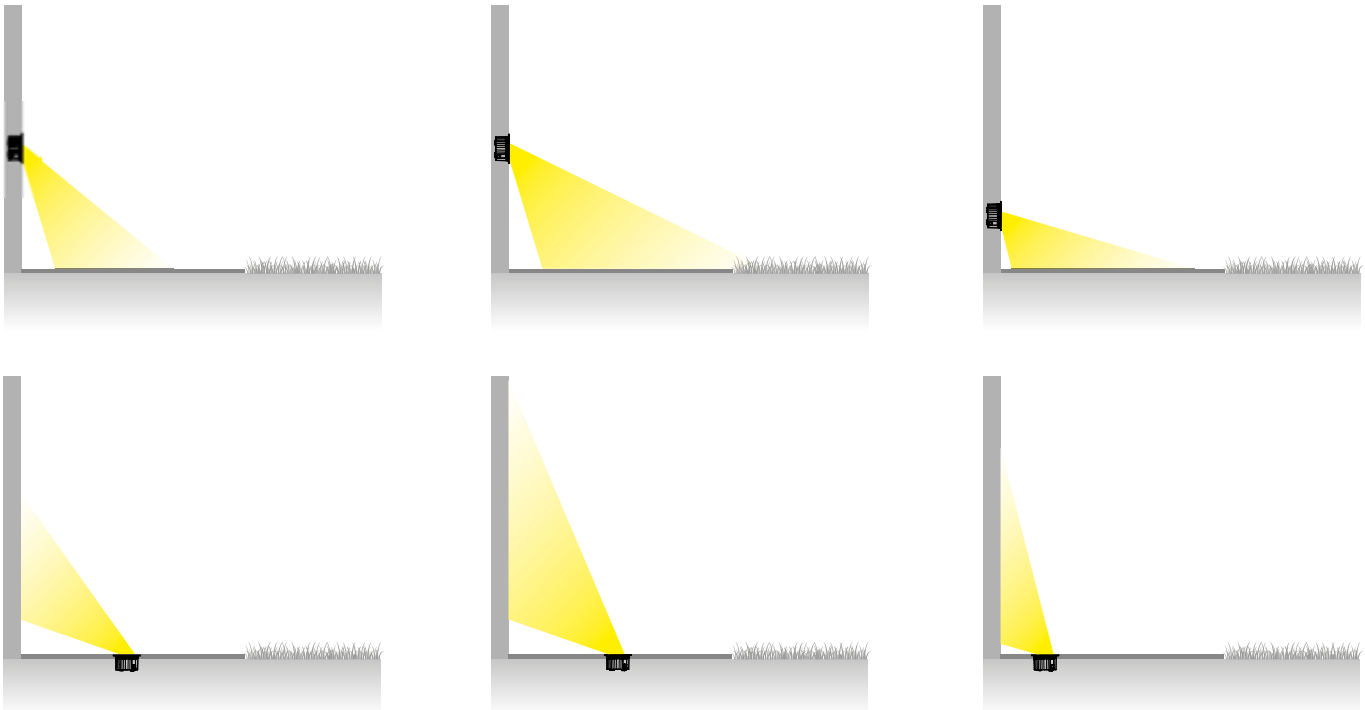
² 2.5", 3.8", 5.4" ONLY

³ See page 3

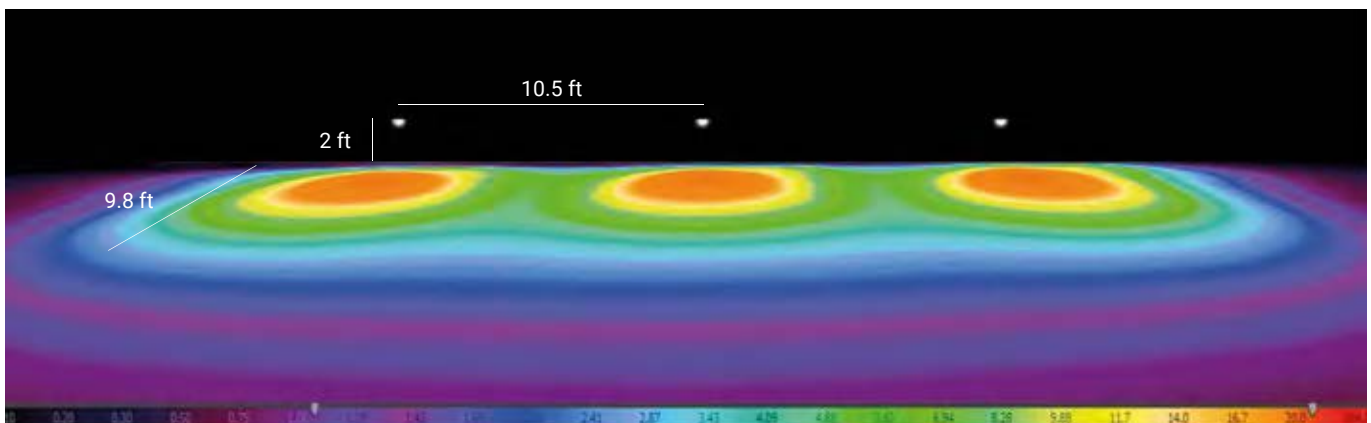


Wall Washer Optics

Optics conceived for wall and floor recessed installation, they allow the creation of perfectly marked and visible luminous paths. The particular Washer optics allow the luminous cone to be sectioned in favour of high visual comfort and to be easily directed so that the positioning is not restricted in the installation phase.



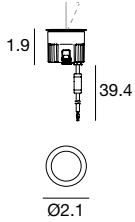
Thanks to the tilting system built into the optics compartment, Orma Wall Washer is able to adapt to different installation heights, defining the diffusion of the light up the 9.8 feet away from the source.



ORMA Trim Adjustable Wall Washer

inter•lux

**2.1" 4W C.C. DC 350mA /
5W C.V. 24 V - DC**



HOUSING OPTIONS (pick one)

E99650
Concrete Housing
PVC



E99560¹
Round Vandal
Resistant Housing
PVC



E99855¹
Square Vandal
Resistant Housing
PVC



E83251
Tile Housing
PVC



DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

ECO30W-350
0-10V EldoLED
ECODrive 30W
for 1-3 fixtures

SOLO50W-350
0-10V EldoLED
SOLOdrive 50W
for 1-6 fixtures

SOLO100W-350
0-10V EldoLED
SOLOdrive 100W
for 1-12 fixtures

DRIVER OPTIONS (pick one)

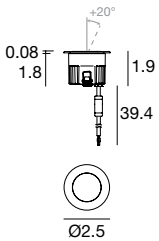
C.V. Power supply options (remote only)

OT96-D010
Osram, 10% 0-10V dim, 96W,
24VDC, 120-277VAC, supplied
in a Dry location enclosure

OT96-JBX
Osram, Non-dim 24VDC,
120-277VAC, Wet location

¹ Note: Vandal resistant housings make the Flush Trim fixtures become Semi-flush Trim.

**2.5" 4W C.C. DC 350mA /
5W C.V. - 24 VDC**



HOUSING OPTIONS (pick one)

E99650
Concrete Housing
PVC



E83251
Tile Housing
PVC



DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

ECO30W-350
0-10V EldoLED
ECODrive 30W
for 1-3 fixtures

SOLO50W-350
0-10V EldoLED
SOLOdrive 50W
for 1-6 fixtures

SOLO100W-350
0-10V EldoLED
SOLOdrive 100W
for 1-12 fixtures

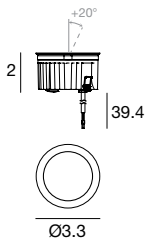
DRIVER OPTIONS (pick one)

C.V. Power supply options (remote only)

OT96-D010
Osram, 10% 0-10V dim, 96W,
24VDC, 120-277VAC, supplied
in a Dry location enclosure

OT96-JBX
Osram, Non-dim 24VDC,
120-277VAC, Wet location

**3.3" 8W C.C. DC 220mA /
9W C.V. 24 V - DC**



HOUSING OPTIONS (pick one)

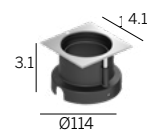
E99651
Concrete Housing
PVC



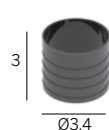
E99563¹
Round Vandal
Resistant Housing
PVC



E99856¹
Square Vandal
Resistant Housing
PVC



E83252
Tile Housing
PVC



DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

ECO30W-220
0-10V EldoLED
ECODrive 30W
for 1 fixtures

SOLO50W-220
0-10V EldoLED
SOLOdrive 50W
for 1-2 fixtures

SOLO100W-220
0-10V EldoLED
SOLOdrive 100W
for 1-4 fixtures

C.V. Power supply options (remote only)

OT96-D010
Osram, 10% 0-10V dim, 96W,
24VDC, 120-277VAC, supplied
in a Dry location enclosure

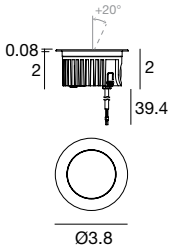
OT96-JBX
Osram, Non-dim 24VDC,
120-277VAC, Wet location

¹ Note: Vandal resistant housings make the Flush Trim fixtures become Semi-flush Trim.

ORMA Trim Adjustable Wall Washer

inter•lux

**3.8" 8W C.C. - DC 220mA /
9W C.V. - 24 VDC**



HOUSING OPTIONS (pick one)

E99651
Concrete Housing
PVC



E83252
Tile Housing
PVC



DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

ECO30W-220
0-10V EldoLED
ECOdrive 30W
for 1 fixtures

SOLO50W-220
0-10V EldoLED
SOLOdrive 50W
for 1-2 fixtures

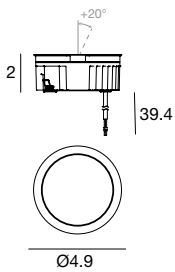
SOLO100W-220
0-10V EldoLED
SOLOdrive 100W
for 1-4 fixtures

C.V. Power supply options (remote only)

OT96-D010
Osram, 10% 0-10V dim, 96W,
24VDC, 120-277VAC, supplied
in a Dry location enclosure

OT96-JBX
Osram, Non-dim 24VDC,
120-277VAC, Wet location

4.9" 12W C.C. - DC 350mA



HOUSING OPTIONS (pick one)

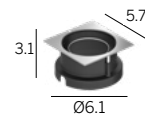
E99652
Concrete Housing
PVC



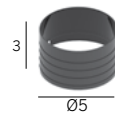
E99564¹
Round Vandal
Resistant Housing
PVC



E99857¹
Square Vandal
Resistant Housing
PVC



E83253
Tile Housing
PVC



DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

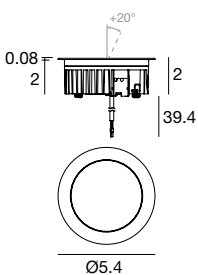
ECO30W-350
0-10V EldoLED
ECOdrive 30W
for 1-3 fixture

SOLO50W-350
0-10V EldoLED
SOLOdrive 50W
for 1-2 fixtures

SOLO100W-220
0-10V EldoLED
SOLOdrive 100W
for 1-4 fixtures

¹ Note: Vandal resistant housings make the Flush Trim fixtures become Semi-flush Trim.

5.4" 12W C.C. - DC 220mA



HOUSING OPTIONS (pick one)

E99652
Concrete Housing
PVC



E83253
Tile Housing
PVC



DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

ECO30W-350
0-10V EldoLED
ECOdrive 30W
for 1 fixtures

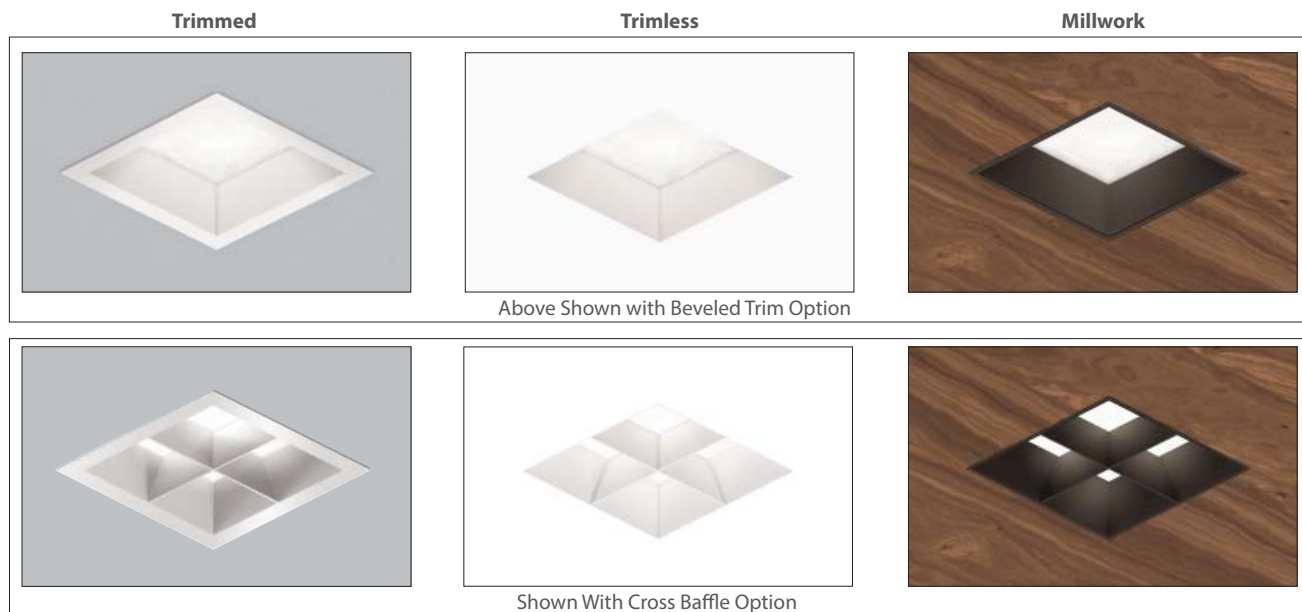
SOLO50W-350
0-10V EldoLED
SOLOdrive 50W
for 1-2 fixtures

SOLO100W-350
0-10V EldoLED
SOLOdrive 100W
for 1-4 fixtures

BeveLED® 2.2 Basic

4.5" Square Downlight - B4SD-G1

Universal and Field Convertible - Trim | Trimless | Millwork



usailighting.com/beveled

Meet the new and improved BeveLED Basic, upgraded with even more efficient, perfectly consistent classic white LED light engines and our field convertible trims that allow for easy on-site changes from trimmed to trimless to millwork – all in a budget-conscious product with the same below ceiling appearance as our extremely versatile BeveLED 2.2 product line.

FEATURES

- Field Flexibility between trimmed, trimless and millwork
- Dry/damp/wet location rated for bathrooms and showers, including trimless and millwork
- 1% dimming standard + more dimming options
- Clear overspray protector for installation convenience
- Iconic beveled look with optional cross-baffle trim for glare control

COMPANION FAMILY PRODUCTS




Adjustable - B4SA-G1
usailighting.com/B4SA-G1

Wall Wash - B4SW-G1
usailighting.com/B4SW-G1

DOWNLIGHT PERFORMANCE DATA

See Page 3

See Page 3

	 Classic White							
	9W		12W		16W		24W	
Color Rendering Index:	80+	90+	80+	90+	80+	90+	80+	90+
Source Lumens:	900	725	1275	1050	1775	1450	2650	2175

*Based on 3000K. Performance varies for each specific beamspread and color temperature. See IES files for exact values at usailighting.com.

Specify fixture part number. (All boxes must be filled in to correctly order)

TRIM FINISH OPTIONS



Custom RAL
(example)

BeveLED® 2.2 Basic

4.5" Square Downlight - B4SD-G1

DELIVERED PERFORMANCE

We offer an extremely wide range of wattages, color temperatures, LED color technologies, and beamspreads for this product line. Please refer to tables below and IES files available at usailighting.com for exact performance values for the product configuration you choose to specify. All values are reported at 3000K, 80+ CRI, with solite glass lens and white trim finish. Use multipliers below to calculate output with other color temperatures, CRI, finishes and lenses.

Classic White		09G1 9W LED	12G1 12W LED	16G1 16W LED	24G1 24W LED
25 25° beam square optic Solite lens	Lumens	782	1073	1503	2255
	lm/W	87	89	89	94
	Intensity (cd)	2009	2759	3864	5796
	UGR	9	10	12	13
50 50° beam square optic Solite lens	Lumens	774	1063	1489	2233
	lm/W	86	89	88	93
	Intensity (cd)	816	1121	1570	2355
	UGR	12	13	14	16
90 90° beam square optic Solite lens	Lumens	655	899	1259	1888
	lm/W	73	75	74	79
	Intensity (cd)	302	415	581	871
	UGR	21	22	23	25
Emergency Battery		EM5, EM5W			
Light Output Multipliers		EM7C, EM7CW			
		0.7	0.5	0.385	0.275
		0.95	0.666	0.476	0.317

LENS LIGHT OUTPUT MULTIPLIER

Solite (S):	1.00
Frosted (SF):	0.88
Borosilicate Frosted (BF):	0.88
Linear Spread (AS61):	0.80
Warm Filter (CTS25):	0.85

TRIM FINISH LIGHT OUTPUT MULTIPLIER

Metalized Grey, Conduit Silver, Clear Matte Anodized Bevels:	1.00		
Black, Statuary Bronze Piano Gloss Black Bevels:	25°-30°	40°-60°	90°
	0.912	0.897	0.860

HEXCELL LOUVER LIGHT OUTPUT MULTIPLIER

15°- 30°	35°- 50°	55°- 65°
0.65	0.45	0.33

CORRELATED COLOR TEMPERATURE MULTIPLIER

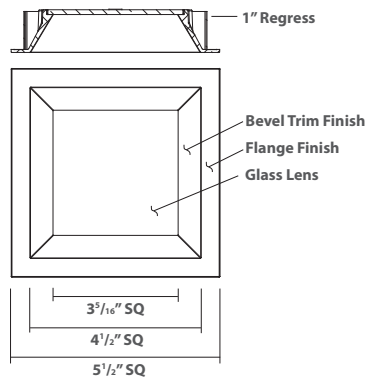
	2700K		3000K		3500K		4000K	
	80+	90+	80+	90+	80+	90+	80+	90+
Color Rendering Index:	80+	90+	80+	90+	80+	90+	80+	90+
Multiplier for Lumen Output:	0.94	0.82	1.00	0.82	1.00	.88	1.00	0.94

BeveLED® 2.2 Basic

4.5" Square Downlight - B4SD-G1

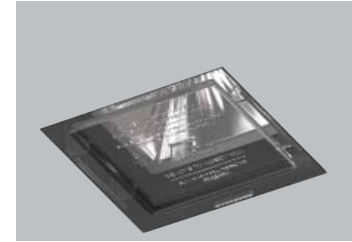
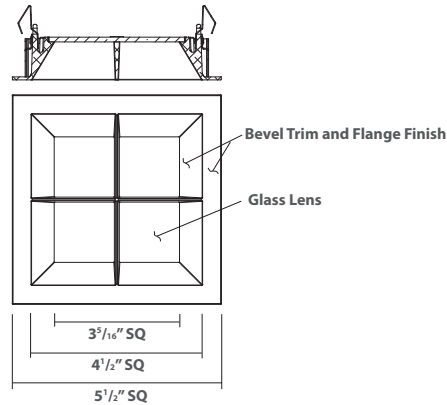
TRIM DETAILS

Standard Bevel Trimmed B4SDF



Trimmed - B4SDF-G1

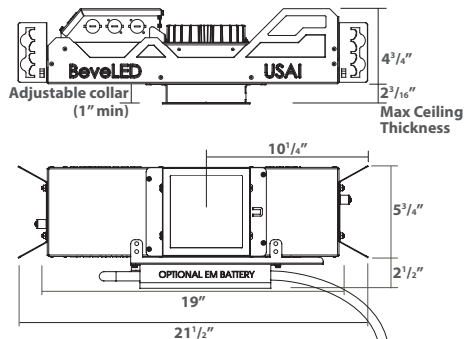
Cross Baffle Trimmed B4SDF-XB



Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

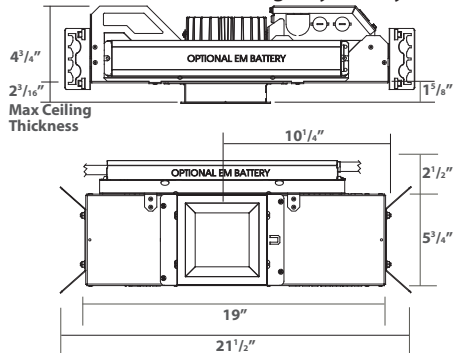
HOUSING OPTIONS

New Construction Narrow Width - NCSM NCSM with EM5 Emergency Battery*



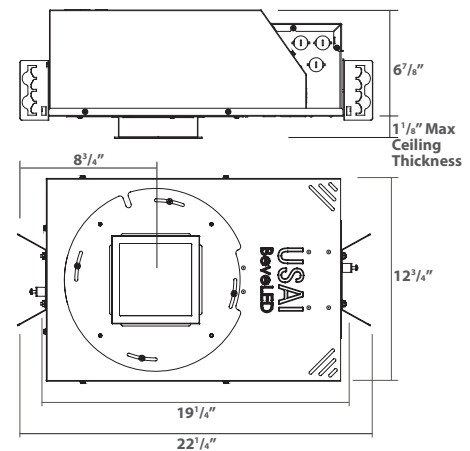
*Above ceiling access required for EM Battery pack.

NCSM with EM7C Emergency Battery*

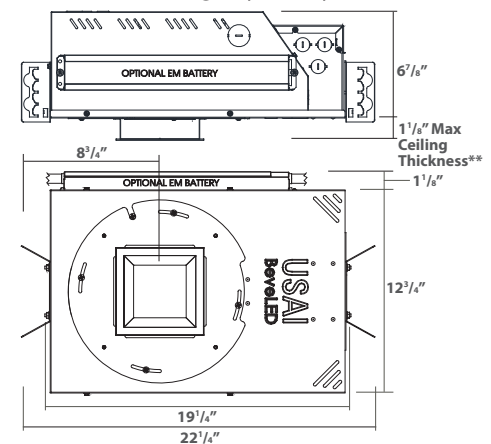


*Above ceiling access required for EM Battery pack.

New Construction - NC Insulation-Contact Rated - NCIC Chicago Plenum Rated - NCCP NC with EM5 Emergency Battery



NC with EM7C Emergency Battery*



*Above ceiling access required for EM Battery pack.

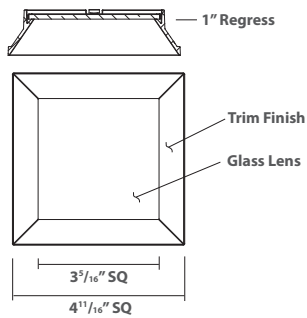
BeveLED® 2.2 Basic

4.5" Square Downlight - B4SD-G1

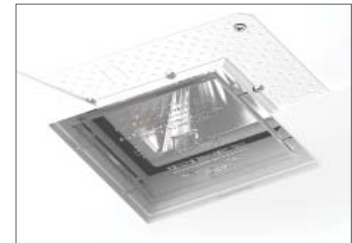
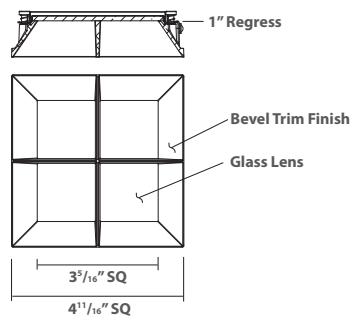
Trimless - B4SDL-G1

TRIM DETAILS

Standard Bevel Trimless B4SDL



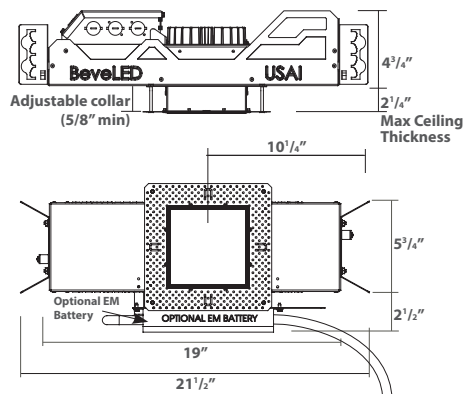
Cross Baffle Trimless B4SDL-XB



Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

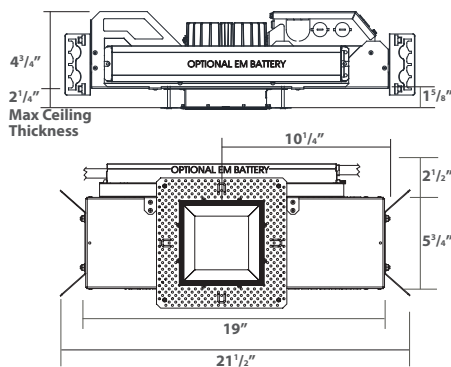
HOUSING OPTIONS

New Construction Narrow Width - NCSM NCSM with EM5 Emergency Battery*



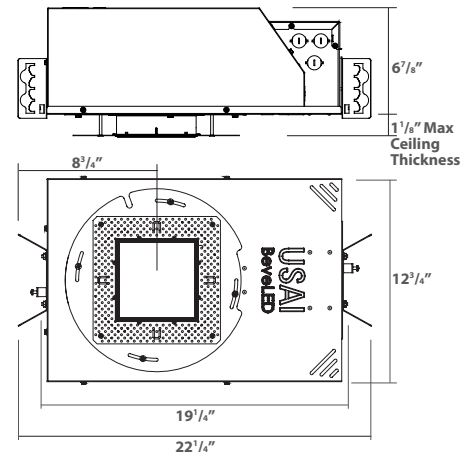
*Above ceiling access required for EM Battery pack.

NCSM with EM7C Emergency Battery*

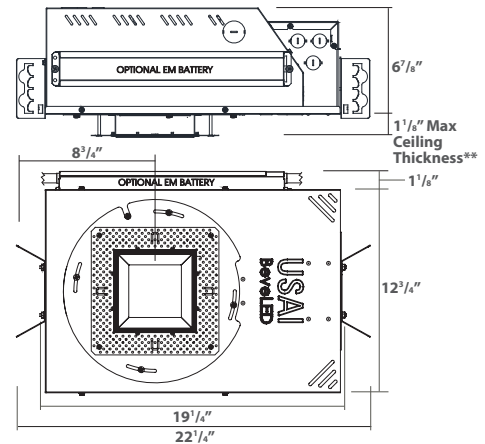


*Above ceiling access required for EM Battery pack.

New Construction - NC Insulation-Contact Rated - NCIC Chicago Plenum Rated - NCCP NC with EM5 Emergency Battery



NC with EM7C Emergency Battery*



*Above ceiling access required for EM Battery pack.

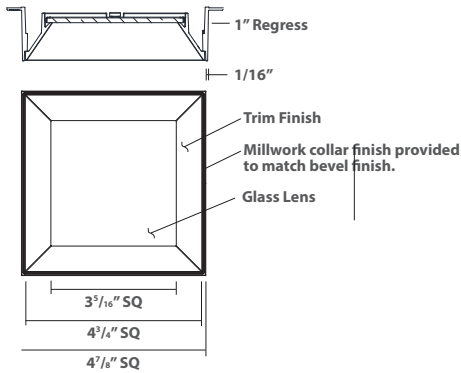
BeveLED® 2.2 Basic

4.5" Square Downlight - B4SD-G1

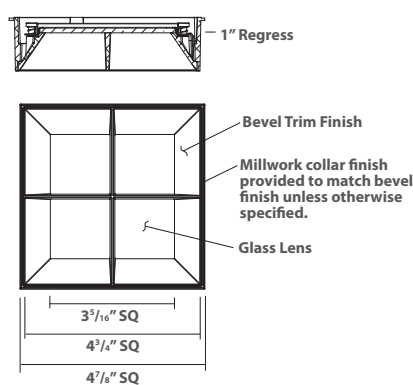
Millwork - B4SDM-G1

TRIM DETAILS

Standard Bevel Millwork B4SDM



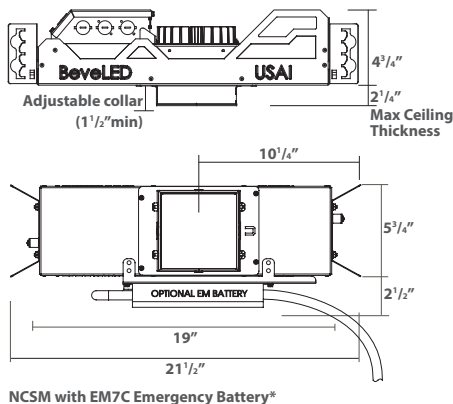
Cross Baffle Millwork B4SDM-XB



Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

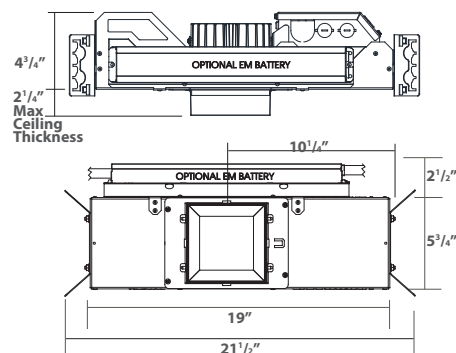
HOUSING OPTIONS

New Construction Narrow Width - NCSM NCSM with EM5 Emergency Battery*



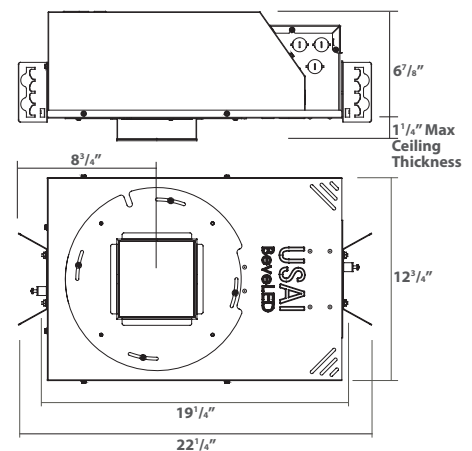
NCSM with EM7C Emergency Battery*

NCSM with EM7C Emergency Battery*

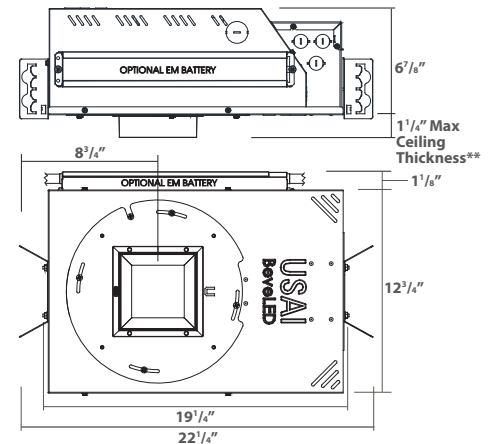


*Above ceiling access required for EM Battery pack.

New Construction - NC Insulation-Contact Rated - NCIC Chicago Plenum Rated - NCCP NC with EM5 Emergency Battery



NC with EM7C Emergency Battery*



*Above ceiling access required for EM Battery pack.

Page 6

BeveLED® 2.2 Basic

4.5" Square Downlight - B4SD-G1

BEVELED BASIC SPECIFICATIONS

FIELD REPLACEABLE LED LIGHT ENGINE

is serviceable through the aperture without tools or with a Phillips screwdriver. All USAI Lighting light engines feature industry-leading color consistency.

TRIM

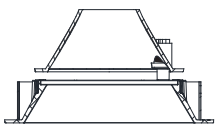
BeveLED Basic B4SD is available with two trim choices: our standard beveled downlight trim is a die-cast 4.5" x 4.5" aperture square with a 1" regress retaining a glass lens. The optional cross baffle trim (-XB-) available for additional glare control is cast with a square integral cross baffle painted in a finish matching the bevel trim finish choice. The cross baffle is available in standard painted finishes only; primer, natatorium, and anodized finishes are not available.

FIELD REPLACEABLE DRIVER

Unless otherwise specified, a 0-10V, 100%-1% solid state electronic constant current integral D6E dimming driver with a high power factor is provided standard and sources 2mA. All integral dimming drivers are located within the fixture housing and are serviceable from below the ceiling through the aperture. Some on-time delay may be experienced depending on control system used. All dimming drivers comply with IEEE C62.41 surge protection.

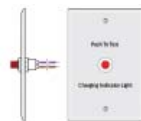
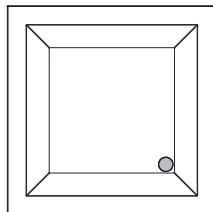
EMERGENCY BATTERY

IOTA emergency battery provides backup power for 90 minutes. NC EM5 fixtures are provided with an integral emergency battery with integral test switch and can be serviced through the aperture from below the ceiling plane. NC EM7C and all NCSM EM fixtures are provided with an integral emergency battery which requires above ceiling access for service, and a remote test switch, which comes with a 24" lead length for location of the test switch. Remote EM test switch is dry/damp only; select EMW emergency option for a wet location-rated EM test switch. NCSM EM fixtures require above ceiling access for service of the EM pack. Select EM7C emergency battery options for California Title 20 Compliant EM pack. Fixtures that have no USAI EM option may be connected to an inverter (by others) for emergency lighting.



Integral Emergency Test

Switch is only provided with NC housing and EM5 battery option. Integral test switch is dry/damp/wet rated. EM5W is not an available selection with NC housings.



Remote Emergency Test Switch is provided with all other EM options: NC housing with EM7C battery, NCSM housing with EM5 battery, and NCSM housing with EM7C battery. Above ceiling access is required for service. Remote test switch is dry/damp rated. Select EM5W or EM7CW for dry/damp/wet location, gasketed remote test switch.

HOUSING

All BeveLED Basic fixtures are field-flexible which allows for field changes from trimless or millwork to trimmed with a simple components change with parts from USAI. All-Ways Square® (covered by US Pat. No: US 7,832,889) housing allows alignment of square aperture (up to 20° rotation) after housing installation and prior to finish ceiling installation. Housings are fabricated of 20 ga. steel construction with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring, except for NCSM which is fabricated of 18 ga. steel. NCIC housing for use with 9W, 12W, and 16W light engines only is rated for direct contact with spray foam insulation of R-42 or less.

MOUNTING

B4SDF overlap flange fixtures are designed for use in sheetrock, acoustical ceiling tile, and many other ceiling materials. B4SDL trimless fixtures are provided with a spackle collar and are designed for use in sheetrock/mud-in ceiling applications. B4SDM millwork fixtures are provided with a millwork collar in finish to match trim finish specified and are designed for use in wood/millwork, stone and tile construction applications. Butterfly brackets and residential grade adjustable nailer bars extendible from 14" to 24" centers with integral nails are provided standard for attachment to building structure. C-channel bars are optionally available for acoustical ceiling applications.

FIXTURE WEIGHT

NC, NCIC, and NCCP housings weigh 16 lbs. NCSM housing weighs 10 lbs., NCSM with EM weighs 16.5 lbs, and NC housing with EM weighs 24.5 lbs.

WARRANTY

Based on IESNA LM80-2008, BeveLED has a 50,000 hour rated life at 70% lumen maintenance (L70). USAI Lighting Warranty covers replacement parts for 5 years from date of shipment. Ambient temperatures at fixture location should not exceed 40°C during normal operation.

CEILING CUT OUT

B4SDF Trimmed with Overlap Flange: 5-1/16" x 5-1/16"

B4SDL Trimless Spackle-in: 5-1/2" x 5-1/2"

B4SDM Millwork Knife-edge: 4-15/16" x 4-15/16"

BeveLED® 2.2 Basic

4.5" Square Downlight - B4SD-G1



BEVELED BASIC SPECIFICATIONS

TRIM FINISH

BeveLED Basic trims are available in a wide range of finishes. USAI's standard powdercoat painted trim finishes are white, conduit silver, gray, black, and bronze. A clear matte anodized bevel and piano gloss black electrocoated bevel are also available with contrast-painted flange finish options. Natatorium finishes are triple-coated for corrosion resistance; these coatings are offered in painted finishes only and are not available for trimless or millwork. All trim finishes are dry/damp/wet location rated, with the exception of the anodized (-AC-) and electrocoated (-AB-) bevel finishes, which are dry/damp only. Please contact the USAI factory with a RAL number specification for custom color trims, or specify the field-paintable primer finish option. Cross baffle trim option is painted to match the bevel finish selected and is not available with Primer, natatorium, AC, or AB finishes.

LISTINGS

Dry/Damp/Wet location. AC and AB trim finishes are dry/damp only. Remote EM test switch is dry/damp only. Select EMW option for wet location remote test switch. UL2043 rated for use in air handling plenums. NRTL/CSA-US tested to UL standards. IBEW union made. All USAI Lighting products are Buy American Act (BAA) compliant.



NOTES

- Use of pressure washer voids warranty

PHOTOMETRICS

Consult factory or website for IES files. Tested in accordance with IESNA LM79.

Project Name

Qty

Type

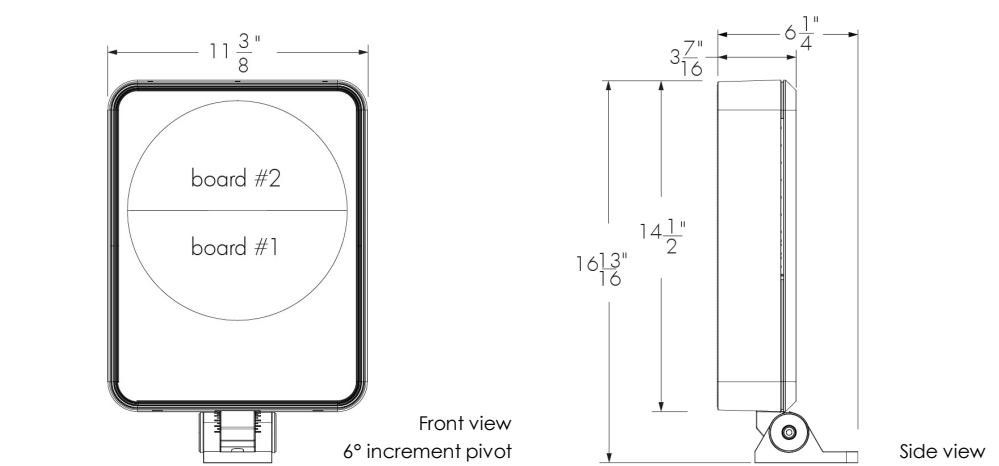
Catalog / Part Number



Ratings

IP66 IK10

Certifications



Description

The Lumenquad Grande Color Changing, 100W LED luminaire, has a sleek 3 7/16 in profile with no visible wiring or hardware and seamlessly integrates with any architecture while also applying dynamic color. Lumenpulse's LED boards possess an optimized candela and lumens recipe for both Narrow and Wide optics. The Lumenquad Grande Color Changing is the epitome of versatility and can be configured with numerous optical, color mixing choices, mounting options, accessories, controls, and multiple standard finishes.

Features

Colors and Color Temperature (Discrete)	RGB, RGB + White 3000K, RGB + White 4000K, RGB + Amber
Colors and Color Temperature (Opticolor™)	Opticolor Cluster with MRGBW (Red, Green, Clue, White 3000K) Opticolor Cluster with MRGBW (Red, Green, Blue, White 4000K) Opticolor Cluster with MRGBA (Red, Green, Blue, Amber) MRGBW30K and MRGBW40K can be configured to MRGB via RDM (consult factory for more details)
Optics (Nominal Distribution)	XN (3° or 5°), VN (6°), NS (10°), NF (20°), M (30°), FL (40°), WFL (60°), NAS (Narrow Asymmetric), WW (Asymmetric Wallwash)
Mounting Options	Surface mount, Wall mount bracket with decorative cover, Wall mount bracket without decorative cover, Recessed JBOX wall mount with decorative cover, Recessed JBOX wall mount without decorative cover, Pole mount, Tenon mount, Stake mount, (All mounting options have a pivot adjustable in 6° increments, consult factory for universal pivot option)
Optical Options (Factory Installed)	Linear spread lens horizontal distribution, Linear spread lens vertical distribution, Honeycomb louver
Option	Corrosion-resistant Coating for Hostile Environments
Power Consumption	100 W
Warranty	5-year limited warranty

Performance

Lumen Maintenance L70 120,000 hrs (Ta 25 °C)

Physical

Housing Material Low copper content high pressure die-cast aluminum

Lens Material Clear tempered glass

Hardware Material Stainless steel

Gasket Material Silicone

Surface Finish Electrostatically applied polyester powder coat

Weight 23 lbs

EPA Front = 1.34 sq ft, Side = 0.35 sq ft, Front 45° = 1.23 sq ft

Electrical and Control

Voltage 100 to 347 volts

Fixture Cable Power and data in one cable

Conductors 3C #16-3 (LT control), 6C #14-3/ #24-3 (DMX/RDM control)

Control Lumentalk, DMX/RDM enabled, DALI 2 T8 Control

Resolution (DMX/RDM) Per board or fixture (configured with LumenID V3 software), 8-bit or 16-bit, 3 channels (RGB) or 4 channels (RGBW30K, RGBW40K and RGBA)

RGB Color Mixing 72 LEDs (12x Red, 12x Green, 12x Blue per board)

RGBA Color Mixing 48 LEDs (6x Red, 6x Green, 6x Blue, 6x Amber per board)

Environmental

Storage Temperature -40 °F to 185 °F (device must reach start-up temperature value before operating)

Start-up Temperature -13 °F to 122 °F

Operating Temperature -40 °F to 122 °F

Ingress Protection Rating IP66
Wet location rated

Impact Resistance Rating IK10

Application Wind Speed Luminaires were designed based on AASHTO 2013 standard to ensure highest quality and safety. Installation should be validated by a local project engineer to ensure the luminaires are suitable for the wind speed and exposure of the specific application

Accessories (Order Separately)

Optical Accessories Snoot, Visor, Linear spread lens adjustable, Wire guard

How to Order

Housing	Voltage	Color and Color Temperature	Optic1	Optic2	Optical Options ⁽¹¹⁾
LQG Lumenquad Grande ⁽¹⁾	100 100 volts	RGB RGB	XN Extra Narrow 3° or 5° ⁽⁷⁾ ⁽⁸⁾ ⁽⁹⁾	XN Extra Narrow 3° or 5° ⁽⁷⁾ ⁽⁸⁾ ⁽⁹⁾	LSLH Linear spread lens horizontal distribution ⁽¹²⁾ LSLV Linear spread lens vertical distribution ⁽¹²⁾ HL Honeycomb louver ⁽⁹⁾ ⁽¹³⁾
	120 120 volts	RGBW30K RGB + White 3000K ⁽²⁾	VN Very Narrow 6° ⁽⁸⁾ ⁽⁹⁾	VN Very Narrow 6° ⁽⁸⁾ ⁽⁹⁾	
	208 208 volts	RGBW40K RGB + White 4000K ⁽²⁾	NS Narrow Spot 10° ⁽⁸⁾	NS Narrow Spot 10° ⁽⁸⁾	
	220 220 volts	RGBA RGB + Amber	NF Narrow Flood 20° ⁽⁸⁾	NF Narrow Flood 20° ⁽⁸⁾	
	240 240 volts	MRGBW30K Opticolor with MRGBW 3000K ⁽³⁾ ⁽⁴⁾ ⁽⁵⁾ ⁽⁶⁾	M Medium 30° ⁽⁸⁾ ⁽¹⁰⁾	M Medium 30° ⁽⁸⁾ ⁽¹⁰⁾	
	277 277 volts	MRGBW40K Opticolor with MRGBW 4000K ⁽³⁾ ⁽⁴⁾ ⁽⁵⁾ ⁽⁶⁾	FL Flood 40° ⁽⁸⁾	FL Flood 40° ⁽⁸⁾	
	347 347 volts	MRGBA Opticolor with MRGBA Amber ⁽³⁾ ⁽⁴⁾ ⁽⁶⁾	WFL Wide Flood 60° ⁽⁸⁾ ⁽¹⁰⁾	WFL Wide Flood 60° ⁽⁸⁾ ⁽¹⁰⁾	
			NAS Narrow Asymmetric ⁽⁸⁾ ⁽⁹⁾	NAS Narrow Asymmetric ⁽⁸⁾ ⁽⁹⁾	
			WW Asymmetric Wallwash ⁽⁸⁾ ⁽⁹⁾	WW Asymmetric Wallwash ⁽⁸⁾ ⁽⁹⁾	

- Notes:
1. Consult factory for products that are BAA-approved (Buy American Act).

2. 2700K, 3500K and Royal Blue available, consult factory. Longer lead times apply.

3. Not available with XN, VN, NAS and WW optics.

4. Consult factory for the availability of more color and CCT options.

5. MRGBW30K and MRGBW40K can be configured to MRGB via RDM, consult factory for more details.

6. The same optic option must be specified for both boards when MRGBW30K, MRGBW40K or MRGBA is selected.

7. Nominal distribution is 3° for RGBW30K, RGBW40K and RGBA color options, and 5° for RGB.

8. Factory installed, not interchangeable on site.

9. Not available with MRGBW30K, MRGBW40K and MRGBA Opticolor options.

10. Cannot be combined with other optics.

11. Optical options are factory installed and cannot be changed in the field.

12. Not available with WFL, NAS and WW optics.

13. Not available with NAS and WW optics.

How to Order

Mounting Option ⁽¹⁴⁾ ⁽¹⁵⁾	Finish	Control	Option	Certification	Cable Length ⁽²⁴⁾ ⁽²⁸⁾ ⁽³⁰⁾
SM Surface mount	BK Black Sandtex®	LT Lumentalk ⁽²¹⁾ ⁽²²⁾	CRC Corrosion-resistant coating ⁽²⁵⁾ ⁽²⁶⁾	UL UL Compliant	3FT 3 ft ⁽²⁴⁾ ⁽²⁹⁾
WM Wall mount bracket with decorative cover	BRZ Bronze Sandtex®	DMX/RDM DMX/RDM enabled ⁽²³⁾ ⁽²⁴⁾		CE CE Compliant ⁽²⁷⁾	10FT 10 ft
WMNC Wall mount bracket without decorative cover	SI Silver Sandtex®	DALI T8 DALI 2 T8 Control		CEII CE compliant Class II double insulated ⁽²⁷⁾	20FT 20 ft
WAM6 Wall arm mount 6 in with decorative cover	WH Smooth White				30FT 30 ft
WAM6NC Wall arm mount 6 in without decorative cover	BKTX Textured Black				50FT 50 ft
WAM12 Wall arm mount 12 in with decorative cover	BRZTX Textured Bronze Non-Metallic				70FT 70 ft
WAM12NC Wall arm mount 12 in without decorative cover	GRATX Textured Medium Gray				100FT 100 ft
WAM18 Wall arm mount 18 in with decorative cover	GRNTX Textured Green				
WAM18NC Wall arm mount 18 in without decorative cover	WHTX Textured White				
WAM24 Wall arm mount 24 in with decorative cover ⁽¹⁴⁾	CC Custom Color & Finish ⁽¹⁸⁾ ⁽¹⁹⁾ ⁽²⁰⁾				
WAM24NC Wall arm mount 24 in without decorative cover ⁽¹⁴⁾					
WMRJB Recessed JBOX wall mount with decorative cover					
WMRJBNC Recessed JBOX wall mount without decorative cover					
WAMRJB6 Recessed JBOX wall arm mount 6 in with decorative cover					
WAMRJB6NC Recessed JBOX wall arm mount 6 in without decorative cover					
WAMRJB12 Recessed JBOX wall arm mount 12 in with decorative cover					
WAMRJB12NC Recessed JBOX wall arm mount 12 in without decorative cover					
WAMRJB18 Recessed JBOX wall arm mount 18 in with decorative cover					
WAMRJB18NC Recessed JBOX wall arm mount 18 in without decorative cover					
WAMRJB24 Recessed JBOX wall arm mount 24 in with decorative cover					
WAMRJB24NC Recessed JBOX wall arm mount 24 in without decorative cover					
RPM4/1 Round pole mount 4 in					

RPM4.5/1 Round pole mount 4.5 in					
RPM5/1 Round pole mount 5 in					
RPM4/2 Round pole mount 4 in for two fixtures					
RPM4.5/2 Round pole mount 4.5 in for two fixtures					
RPM5/2 Round pole mount 5 in for two fixtures					
PLTU Lumentech pole mount ⁽¹⁷⁾					
TN2 Tenon adapter for 2 3/8 in O.D. pole					
TN4 Tenon adapter for 4 in O.D. pole					
SK Stake mount					

- Notes:
14. All mounting options (except for SM mounting) are interchangeable. Consult factory for details.

15. All mounting options have a pivot adjustable in 6° increments, consult factory for universal pivot option.

16. A cable length of 10 ft or greater must be specified.

17. Available for Lumentech poles with a square or round profile. A PLTU - Universal Yoke accessory must be ordered with the Lumentech pole for the Lumentech to fit with the PLTU mounting option. Refer to Lumentech specification sheet and installation instructions for more details.

18. Lumenpulse offers a wide selection of RAL CLASSIC (K7) colors with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colors, other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.

19. Setup charges apply for RAL colors. Consult factory for details.

20. Longer lead times can be expected for custom RAL color finishes.

21. Not available with 347V.

22. A Lumentranslator 2 (LTL2) and LumentalkID (LIDL) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.

23. A control box (CBX) and LumenID (LID) must be specified.

24. Maximum of 3 ft cable length for daisy chain DMX applications with CBX-DS.

25. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.

26. Setup charges apply. Consult factory for details.

27. Consult European specification sheets and installation instructions for CE and CE Class II wiring information.

28. Not applicable to WMRJB, WMRJBNC and WAMRJB 6 in to 24 in mounting options (with or without decorative cover). Cable lengths for these mounting options are determined by the length of the mounting bracket.

29. Not available with WAM24 or WAM24NC mounting options.

30. UL fixtures specified with a Smooth white finish and a SM, WM, WMNC, or WAM 6 in to 24 in mounting option (with or without decorative cover) are provided with a white cable. A black cable is provided for all other fixture configurations.

The background is a detailed line-art illustration in a muted grey tone. It depicts an industrial or construction environment. At the top, a large gear wheel is visible. To the left, a person wearing safety goggles is shown in profile, looking down at a task. In the center, a large rectangular box contains the text. At the bottom, a construction worker in a hard hat and safety vest holds a clipboard. To the right, there are various mechanical components, a recycling symbol, and a building-like structure with windows.

MAESTRO 3.0

PROFESSIONAL
ARCHITECTURAL
LIGHTING

Skin

i-LèD



skin

Materials

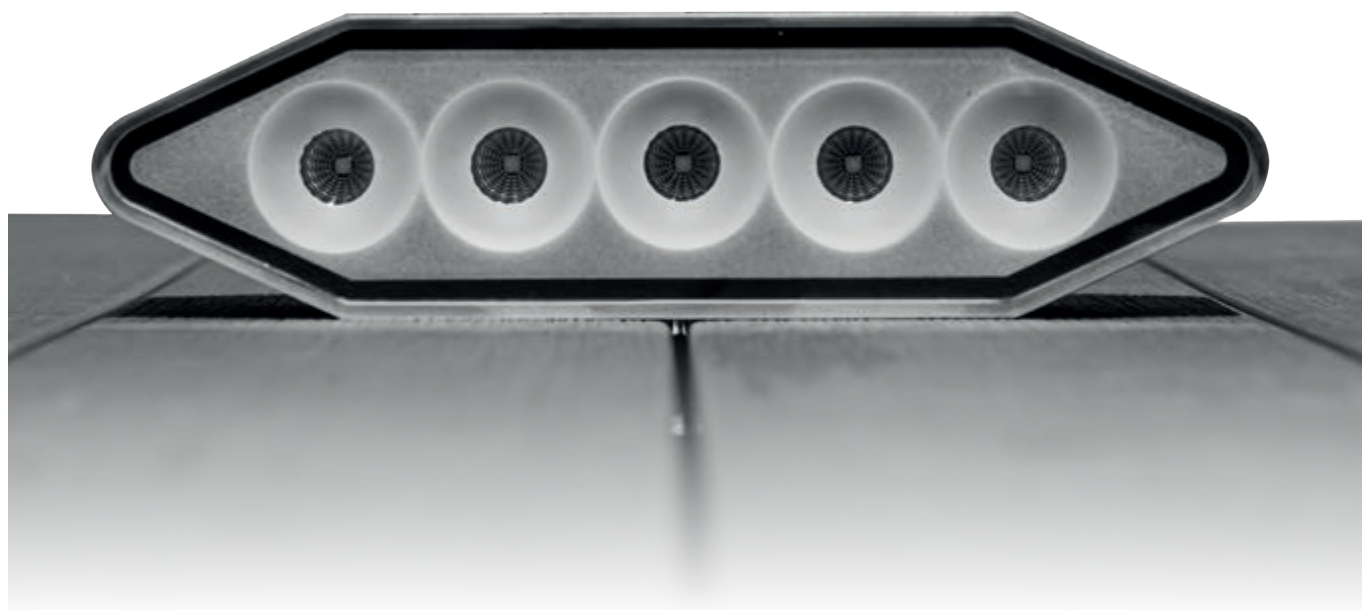
Aluminium body

Tempered glass diffuser



skin range

design Joerg Krewinkel



Skin_FL
Frameless Opaline




Skin_S
Surface



Skin_F
Frameless



Skin_Y
Asymmetric

	Skin_FL Frameless Opaline	Skin_S Surface	Skin_F Frameless	Skin_Y Asymmetric
2,1 W	166 x 57 mm	-	-	-
3,2 W	220 x 57 mm	-	-	-
6 W	-	166 x 57 mm	166 x 57 mm	-
9,6 W	-	166 x 57 mm	166 x 57 mm	-
10 W	-	220 x 57 mm	220 x 57 mm	-
12,2 W	-	-	-	220 x 57 mm
16,2 W	-	220 x 57 mm	220 x 57 mm	-
Finish	Black	Wh Bk	Black Bk Gold	Black
powerLED	-	2700K 3000K 4000K	2700K 3000K 4000K	2700K 3000K 4000K
topLED	2700K 3000K 4000K	-	-	-
Optics	General	Spot Food W.Flood	Spot Food W.Flood	Asymmetric
Driver 	On/Off	On/Off	On/Off	On/Off

Beautiful and functional Skin

Skin is an innovative outdoor (IP67), versatile and modular lighting fixture. The brand new elongated hexagonal shape makes it easy to create continuous linear compositions, suitable for following and lighting the complex or misaligned silhouettes of modern architecture. This product can be used in various configurations: recess-mounted flush with the pavement, wall or ceiling-mounted, semi-recessed or surface-mounted. Skin's great versatility also spills over into the controlled-luminance optics available in various finishes. The structure is made of aluminium in embossed black finish, elegant and universal, perfect for any environment when it is exposed. The two types of recessed casings, one conceived for floor installation and the other for cast or plasterboard ceiling installation, contain a high-performance lighting machine with multiple sources and power variations.



Downlight
Recessed or surface mounted
Opal cells
Frosted glass
3/5 cells version



Downlight or uplight
Recessed or surface mounted
Black cells
Black silk-screened glass
3/5 cells version



Downlight or uplight
Recessed or surface mounted
Metal-finish cells
Black silk-screened glass



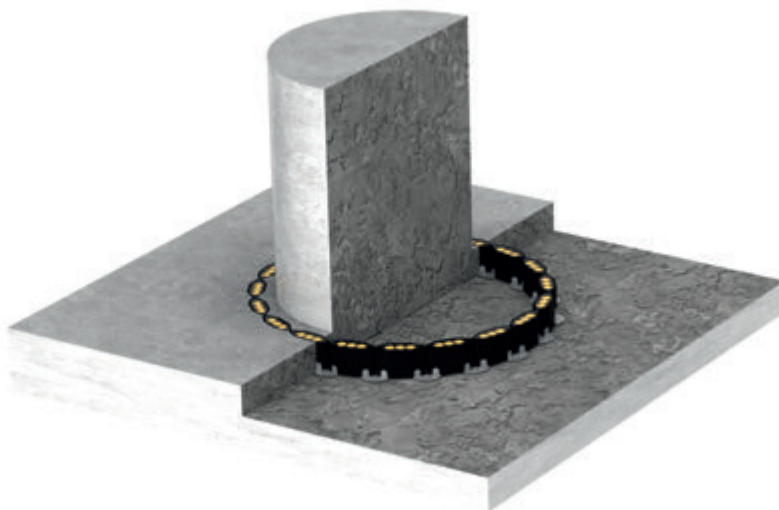
Downlight or uplight
Recessed or surface mounted
Opal glass



Downlight or uplight
Recessed or surface mounted
Gold cells
Black silk-screened glass
3/5 cells version

Installation flexibility and camouflage

Skin can be set up in different solutions designed to meet any design needs. The advantages include the possibility of semi-recessed mounting, a solution that leaves only the thickness of the glass exposed, adding a soft diffusion of light onto the surface it is installed on to the emission with precision optics, an absolutely elegant and clean solution, making the product almost invisible, allowing only the light to emerge, essential material for construction of an architecture. The glass diffuser is available in three versions: with ceramic-based painting for a path-marker effect with integrated anti-slip, transparent with optics or with frosted glass in the semi-recessed version.



Variety of optics

Skin is available with 3 or 5 sources (length: 166 and 220 mm) and various optics: spot, flood and wide flood, asymmetric wall-washer and path-marker with anti-slip white diffuser, power settings that range from 2.1W to 16,2W. A complete technological package, designed to meet all the needs of even the most demanding designer.



Spot



Flood



W.Flood

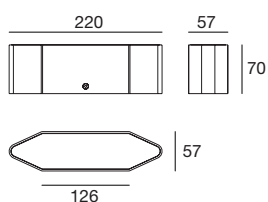


General



Asymmetric

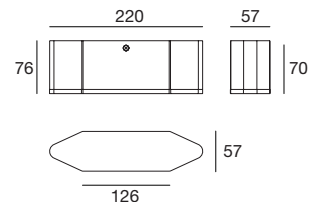
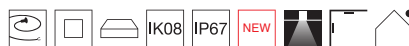
Skin_FL | Lines | 176-276 V AC | topLED



3,2 W DC - 3,8 W AC	Cct	lm S - D	Optic
Black 83872	M 2700	381 - On req	00 General -
	W 3000	399 - On req	
	N 4000	413 - On req	

Recessed casing Pag. 7

Skin_S | Lines | 176-240 V AC | powerLEDs

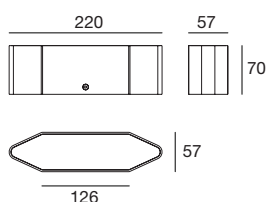


10 W DC - 11,2 W AC	Cct	lm S - D	Optic
Wh Bk 83871	M 2700	1330 - On req	15 Spot -
	W 3000	1420 - On req	30 Flood -
	N 4000	1515 - On req	45 W.Flood -

16,2 W DC - 18 W AC	Cct	lm S - D	Optic
Wh Bk 83868	M 2700	2016 - On req	15 Spot -
	W 3000	2016 - On req	30 Flood -
	N 4000	2177 - On req	45 W.Flood -

Recessed casing Pag. 7

Skin_F | Lines | 176-240 V AC | powerLEDs

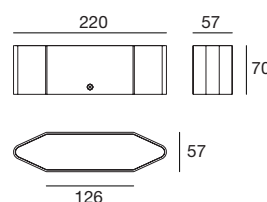


10 W DC - 11,2 W AC	Cct	lm S - D	Optic
Black 83869	M 2700	1330 - On req	15 Spot -
Bk Gold 83870	W 3000	1420 - On req	30 Flood -
	N 4000	1515 - On req	45 W.Flood -

16,2 W DC - 18 W AC	Cct	lm S - D	Optic
Black 83866	M 2700	2016 - On req	15 Spot -
Bk Gold 83867	W 3000	2016 - On req	30 Flood -
	N 4000	2177 - On req	45 W.Flood -

Recessed casing Pag. 7

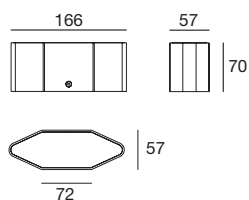
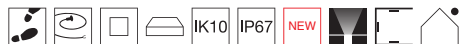
Skin_Y | Lines | 176-240 V AC | powerLEDs



12,2 W DC - 14 W AC	Cct	lm S - D	Optic
Black 83873	M 2700	1584 - On req	07 Asymm. -
	W 3000	1700 - On req	
	N 4000	1834 - On req	

Recessed casing Pag. 7

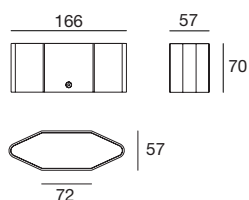
Skin_FL | Lines | 176-276 V AC | topLED | 2,1 W DC



2,1 W DC - 2,5 W AC	Cct	lm S - D	Optic
Black 83865	M 2700	254 - On req	00 General -
	W 3000	266 - On req	
	N 4000	275 - On req	

Recessed casing Pag. 7

Skin_F | Lines | 176-276 V AC | powerLEDs

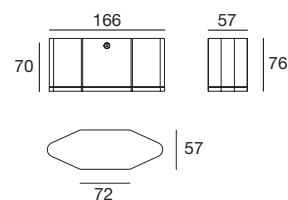


6 W DC - 6,7 W AC	Cct	lm S - D	Optic
Black 83859	M 2700	798 - On req	15 Spot -
Bk Gold 83860	W 3000	852 - On req	30 Flood -
	N 4000	909 - On req	45 W.Flood -

9,6 W DC - 11 W AC	Cct	lm S - D	Optic
Black 83862	M 2700	1210 - On req	15 Spot -
Bk Gold 83863	W 3000	1210 - On req	30 Flood -
	N 4000	1306 - On req	45 W.Flood -

Recessed casing Pag. 7

Skin_S | Lines | 176-276 V AC | powerLEDs



6 W DC - 6,7 W AC	Cct	lm S - D	Optic
Wh Bk 83864	M 2700	798 - On req	15 Spot -
	W 3000	852 - On req	30 Flood -
	N 4000	909 - On req	45 W.Flood -

9,6 W DC - 11 W AC	Cct	lm S - D	Optic
Wh Bk 83861	M 2700	1210 - On req	15 Spot -
	W 3000	1210 - On req	30 Flood -
	N 4000	1306 - On req	45 W.Flood -

Recessed casing Pag. 7

Recessed casing



Recessed casing for concrete

description
83123 Recessed casing 175 mm
suitable for: Skin 166 mm
83124 Recessed casing 229 mm
suitable for: Skin 220mm



Recessed casing for plasterboard ceilings

description
83125 Recessed casing 175 mm
suitable for: Skin 166 mm
83126 Recessed casing 229 mm
suitable for: Skin 220mm

Addresses

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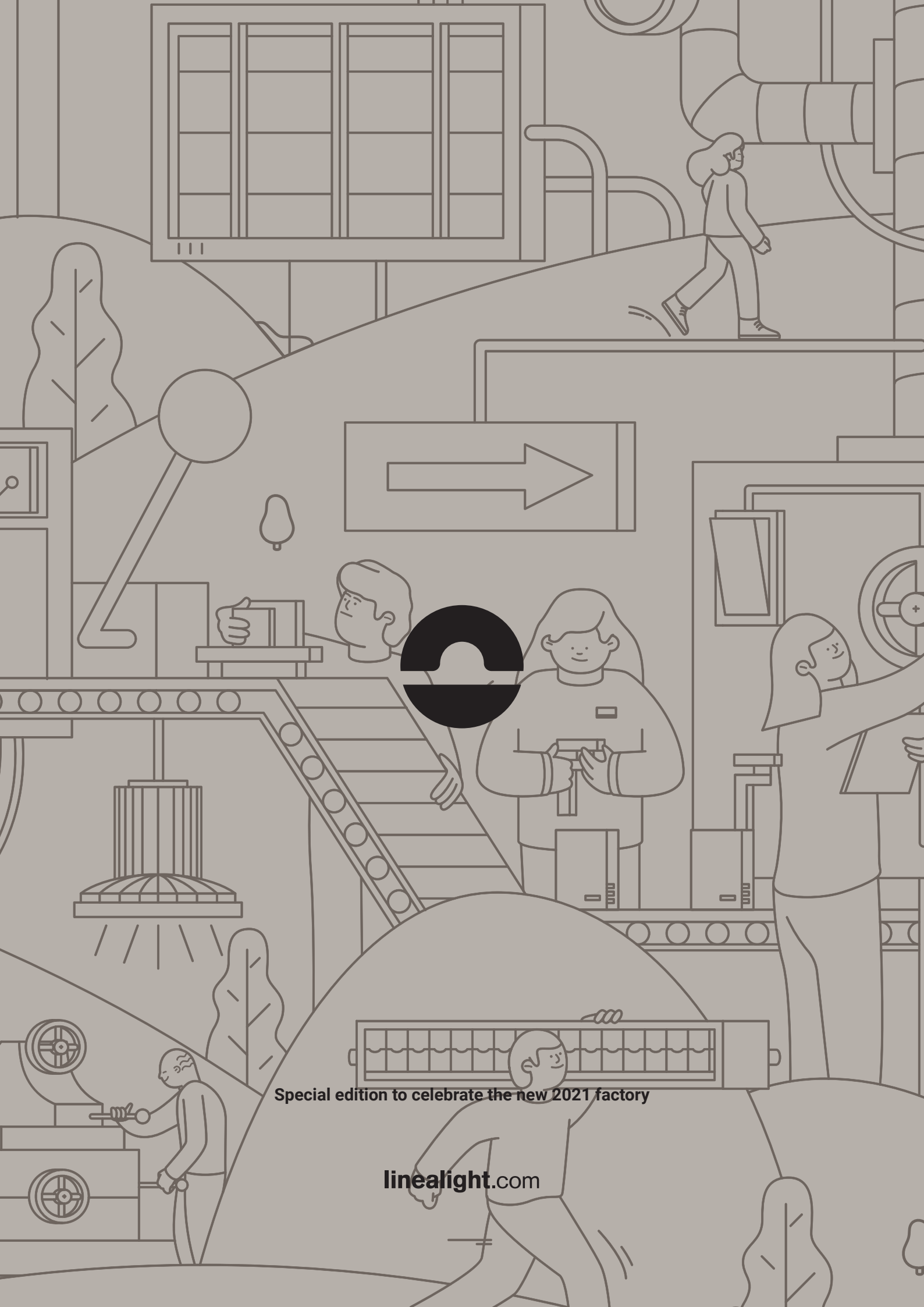
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Special edition to celebrate the new 2021 factory

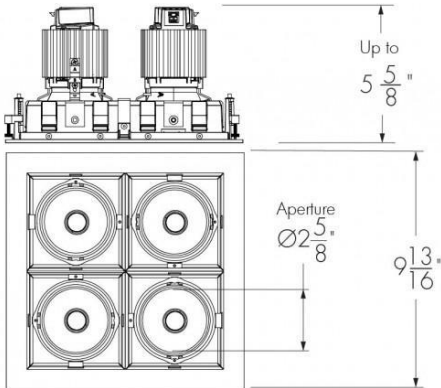
linealight.com

Project Name

Qty

Type

Catalog / Part Number



Ceiling cutout: 9 1/4" x 9 1/4"
Maximum ceiling thickness: 1"

Front view

Bottom view

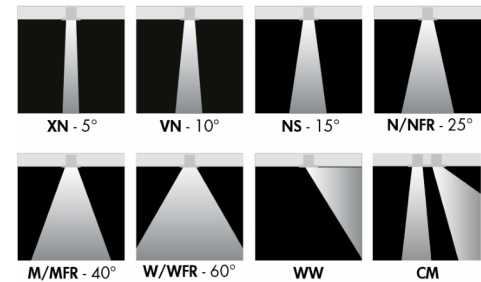
Photometric Summary

Based on Narrow Optic (nominal 25°), one fixture head, 4000K, CRI 80+

Nominal output [lm]	Delivered output [lm] ^[1]	Insulated ceiling Power (120V) [W]	Insulated ceiling Efficacy [lm/W]	Non-insulated ceiling Power (120V) [W] ^[2]	Non-insulated ceiling Efficacy [lm/W]
700	728	5	146	7	104
1000	958	6.5	147	8.5	113
1300	1,302			11.5	113
2000	2,030			18	113

[1] Preliminary, consult website for latest IES files.
[2] Add 3 watts per fixture when specifying Lumentalk™.

Optics



Color and Color temperature




Controls

ON/OFF 0-10V PRO 0-10V DALI PRO DALI

DALIT8 DMX rdm LUTRON lumen talk PH





PRO PH

Trim shape




Square

Trim finishes



White Black Nickel satin Trimless

Adjustability



+/- 30° tilt (gimbal not available for WW optic)

Certifications



Color Consistency	2 SDCM, 3 SDCM (XN optic only)
Color Rendering	CRI 80+, CRI 90+, CRI 95+
Lumen Maintenance	L95 55,000 hrs, L70 225,000 hrs
UGR	< 19 (not applicable to WW optic)

Physical

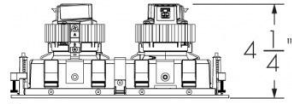
Housing Material	Aluminum
TIR Optics Material	Clear polycarbonate
Reflector Material	Aluminum
Trim Shape	Square
Interior finish	White, Black
Trim Finish	Black, White, Nickel satin, Trimless
Adjustability	Up to 30° tilt (per gimbal, not available for WW optic)

Electrical and control

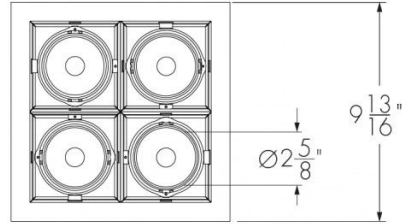
Voltage	120 volts, 277 volts
Control	On/Off control, Standard 0-10V dimming to 1% linear curve, Standard 0-10V (1% linear or logarithmic), Pro 0-10V (0.1% linear or logarithmic), Standard DALI (1% linear or logarithmic), Pro DALI (0.1% linear or logarithmic), DALI-2 dimming Type 8 (multi channel capability), DMX/RDM enabled, Lutron® Hi-lume 1% EcoSystem® LDE1/PEQ1 Soft-on/Fade-to-Black, Lumentalk, Phase dimming (consult factory), Pro Phase 1% dimming

Environmental

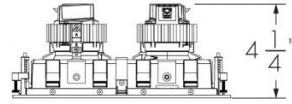
Environment	Damp location rating (interior applications only)
Operating Temperature	-4 °F to 104 °F
Ingress Protection Rating	IP20

Static color dimensions (22K, 27K, 30K, 35K, 40K)**XN (5°)/ VN (10°)****700lm CR80/CR90
(XN/VN)**

Front view



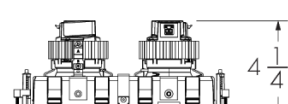
Bottom view

**1000lm CR80/CR90
(VN)**

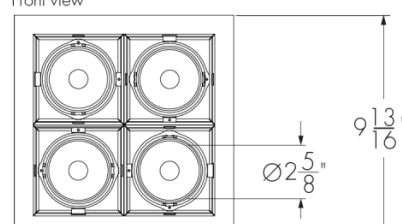
Front view



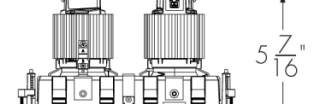
Bottom view

NS (15°)/ N (25°)**700/1000lm CR80/CR95
1300lm CR80**

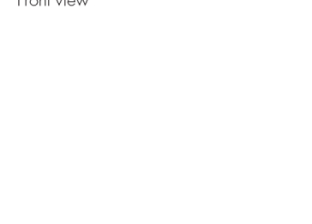
Front view



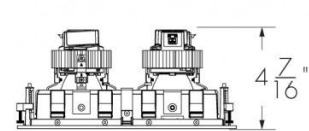
Bottom view

**1300lm CR95
2000lm CR80**

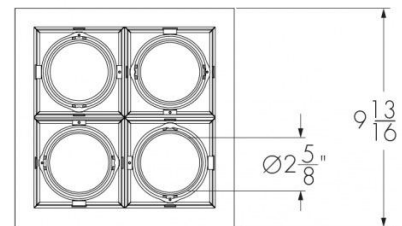
Front view



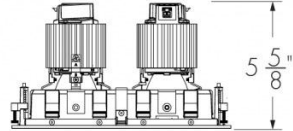
Bottom view

NFR (25°)/ M (40°)/ MFR (40°)/ W (60°)/ WFR (60°)**700/1000/1300lm CR80/CR95**

Front view



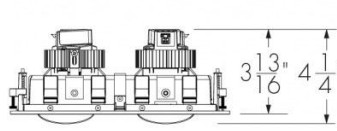
Bottom view

2000lm CR80/CR95

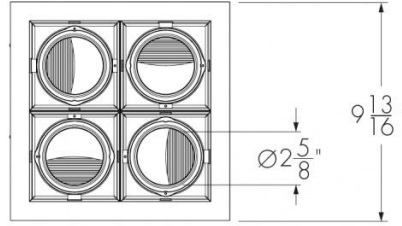
Front view



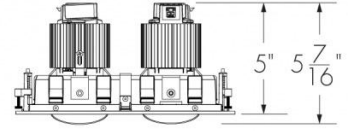
Bottom view

WW**700/1000/1300lm CR80/CR95**

Front view



Bottom view

2000lm CR80

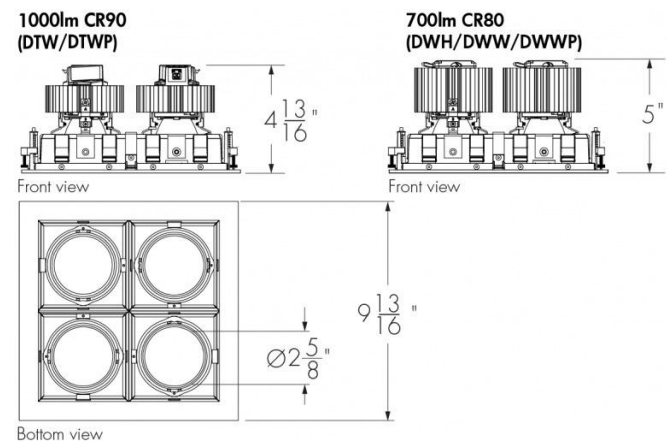
Front view



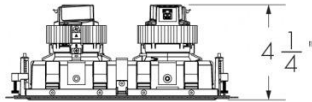
Bottom view

Dynamic color dimensions (DTW, DTWP, DWH, DWW, DWWP)

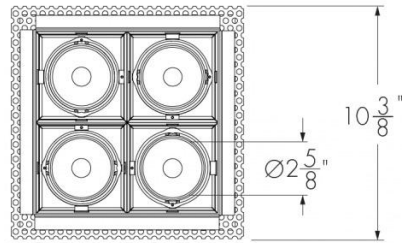
NFR (25°)/ M (40°)/ MFR (40°)/ W (60°)/ WFR (60°)



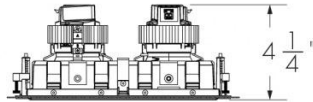
Color temperature options may vary according to optic. Refer to website product configurator for details.

Trimless - static color dimensions (22K, 27K, 30K, 35K, 40K)**XN (5°)/ VN (10°)****700lm CR80/CR90
(XN/VN)**

Front view



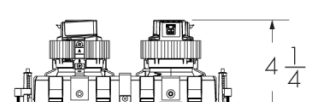
Bottom view

**1000lm CR80/CR90
(VN)**

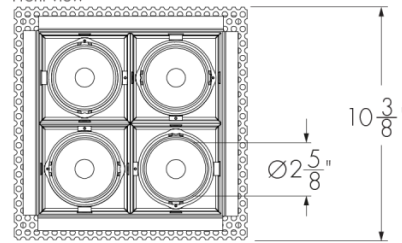
Front view



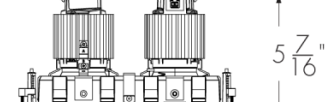
Bottom view

NS (15°)/ N (25°)**700/1000lm CR80/CR95
1300lm CR80**

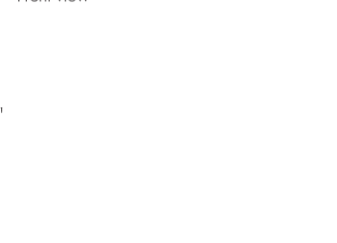
Front view



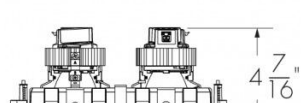
Bottom view

**1300lm CR95
2000lm CR80**

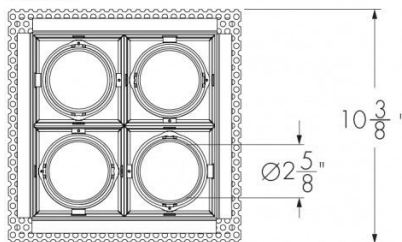
Front view



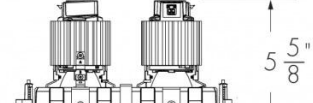
Bottom view

NFR (25°)/ M (40°)/ MFR (40°)/ W (60°)/ WFR (60°)**700/1000/1300lm CR80/CR95**

Front view



Bottom view

2000lm CR80/CR95

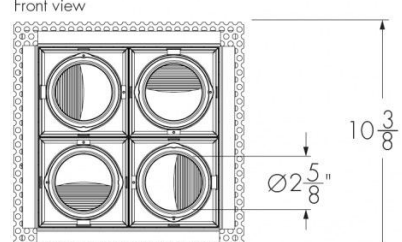
Front view



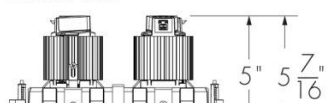
Bottom view

WW**700/1000/1300lm CR80/CR95**

Front view



Bottom view

2000lm CR80

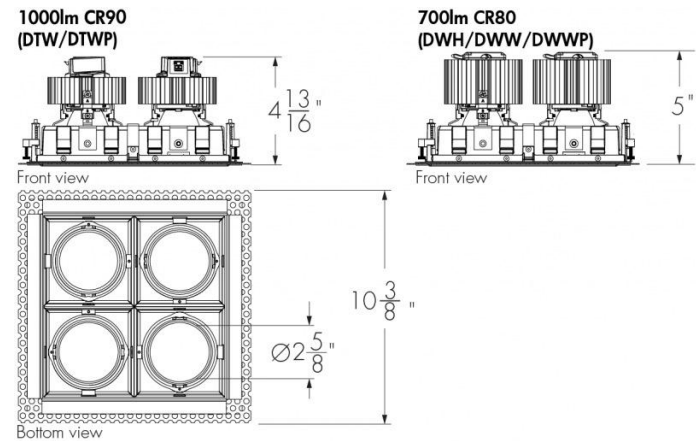
Front view



Bottom view

Trimless - dynamic color dimensions (DTW, DTWP, DWH, DWW, DWWP)

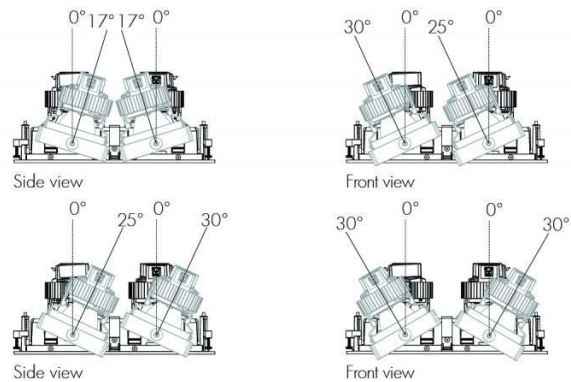
NFR (25°) / M (40°) / MFR (40°) / W (60°) / WFR (60°)



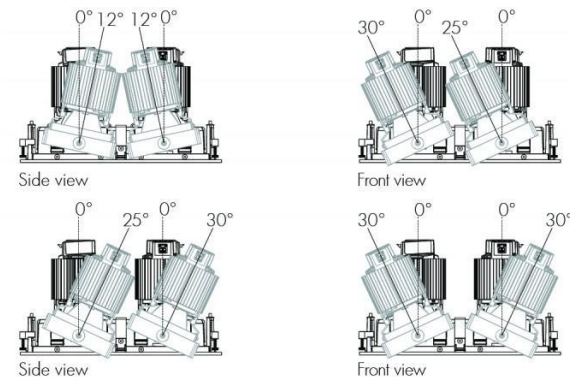
Color temperature options may vary according to optic. Refer to website product configurator for details.

Tilt limits - Typical layouts

700, 1300lm



2000lm



The position of each head will vary by installation. Each head can be tilted in any direction but the heatsinks must not come in contact with one another.

Photometric information - Color rendering options comparison, 3000K

Color sample	Ra	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
CRI 80+	84	82	90	97	83	82	88	86	63	15	77	83	68	84	98	75
CRI 90+	92	93	97	98	92	93	97	90	79	55	93	93	85	94	100	88
CRI 95+	97	96	97	99	96	96	95	96	97	97	96	95	86	96	98	97
Radiant CRI 80+	84	83	91	96	81	82	89	83	62	15	79	80	69	85	98	76
Radiant CRI 95+	95	95	94	95	98	94	90	94	96	96	89	95	80	94	98	96

Optics

TIR Optic
XN/VN/NS/N



Semi-Specular reflector
M/W

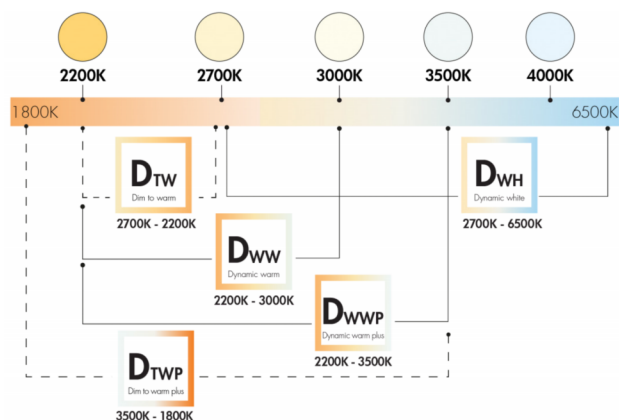


Faceted reflector
NFR/MFR/WFR

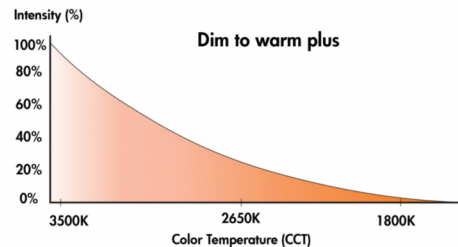
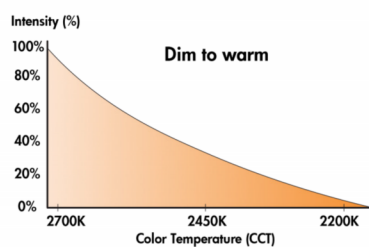


Color and color temperature

Color temperature ranges



- 1 channel (DTW, DTWP) Compatible with: DA1 SDALI DMXrdm lumen talk
 - 2 channels (DWH, DWW, DWWP) Compatible with: DALI8 DMXrdm lumen talk
 - 3 channels* (DWH, DWW, DWWP) Compatible with: DALI8 DMXrdm lumen talk
- *Can be field changeable via RDM & LT for individual CCT control.



Control

Refer to website product configurator for exceptions

On/off control

NO - On/off control

Standard 0-10V dimming down to 1%

DAMC - Standard 0-10V dimming to 1% linear curve

DA1 - Standard 0-10V dimming, 1% linear

DA2 - Standard 0-10V dimming, 1% logarithmic

Professional 0-10V dimming down to 0.1%

PDA1 - Pro 0-10V dimming, 0.1% linear

PDA2 - Pro 0-10V dimming, 0.1% logarithmic

Standard DALI dimming down to 1%

SDALI1 - Standard DALI dimming, 1% linear

SDALI2 - Standard DALI dimming, 1% logarithmic

Professional DALI dimming down to 0.1%

DALI1 - Pro DALI dimming, 0.1% linear

DALI2 - Pro DALI dimming, 0.1% logarithmic

Lutron® EcoSystem®

ES - Lutron® Hi-lume 1% EcoSystem® LDE1/PEQ1 Soft-on/Fade-to-Black, 1% minimum dimming value

DALI dimming Type 8

DALI8 - DALI dimming Type 8 (multi channel capability)

DMXrdm

DMX/RDM - DMX/RDM enabled

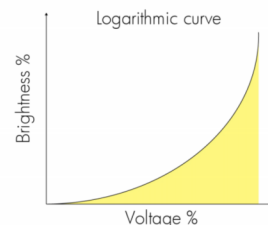
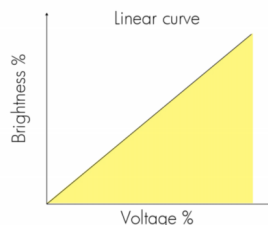
lumen talk dimming

LT - Lumentalk dimming, 1% minimum dimming value

Phase dimming (consult factory)

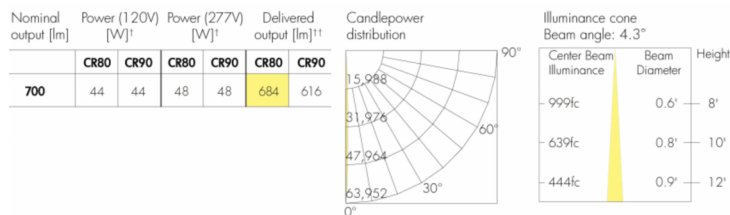
PH - Phase dimming

PPH - Pro Phase 1% dimming

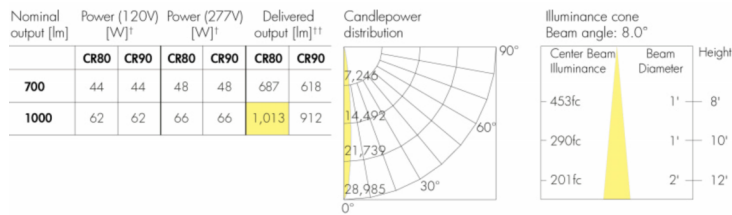


Photometric information (RM and NC installation types)

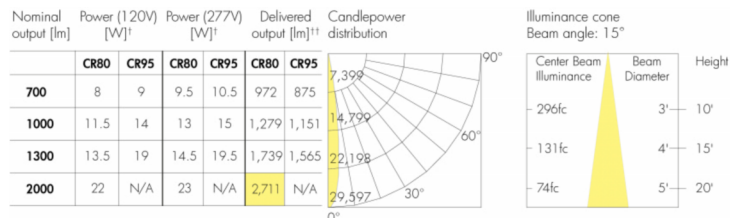
XN - Extra Narrow Spot (nominal 5°), 4000K



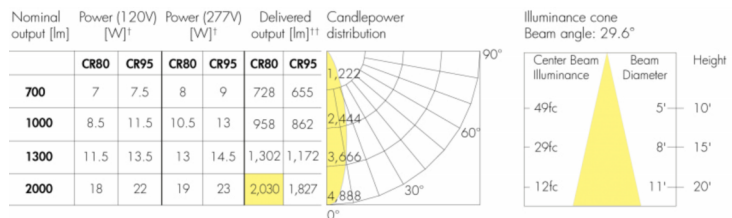
VN - Very Narrow Spot (nominal 10°), 4000K



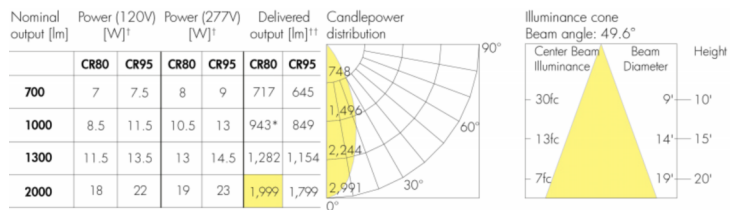
NS - Narrow Spot (nominal 15°), one fixture head, 4000K



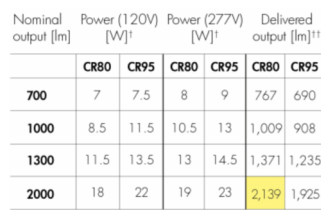
N - Narrow (nominal 25°), one fixture head, 4000K



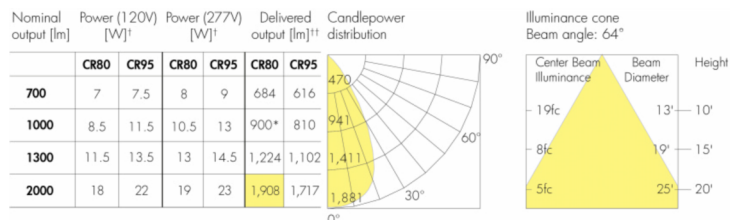
M - Medium (nominal 40°), one fixture head, 4000K



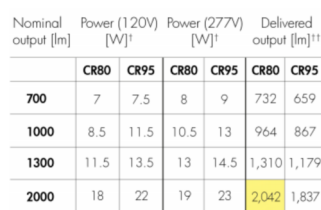
MFR - Medium faceted reflector (nominal 40°), 4000K



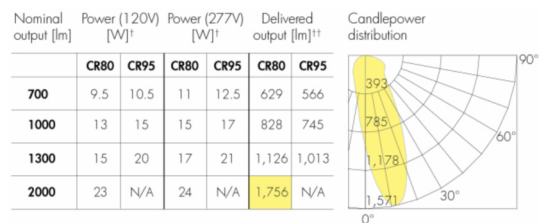
W - Wide (nominal 60°), one fixture head, 4000K



WFR - Wide faceted reflector (nominal 60°), 4000K



WW - True asymmetric wallwash, one fixture head, 4000K



1 Remove 2 watts per fixture when specifying new construction insulated ceiling installation types (IC and CP).

2 Add 3 watts per fixture when specifying Lumentalk™.

† Delivered wattage: +/- 10% tolerance.

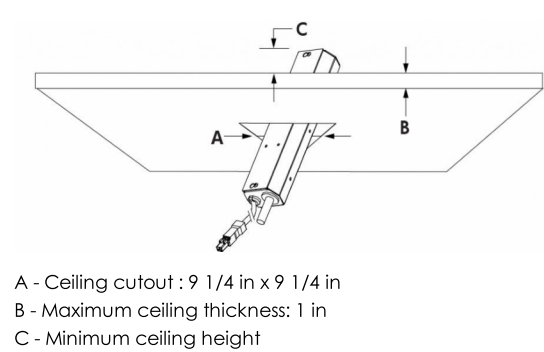
†† Preliminary, consult website for latest IES files. Delivered output: +/- 10% tolerance.

* Photometric performance is measured in compliance with IESNA LM-79-08.

Ceiling Requirements

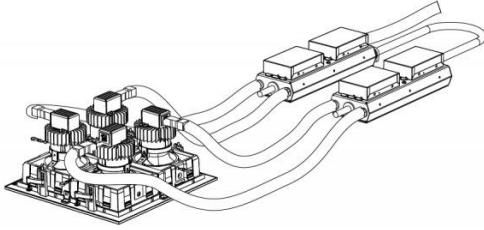
Minimum Ceiling Height

Installation type	700lm	1000lm	1300lm	2000lm
RM	7"			
NC				
IC/CP	9"			

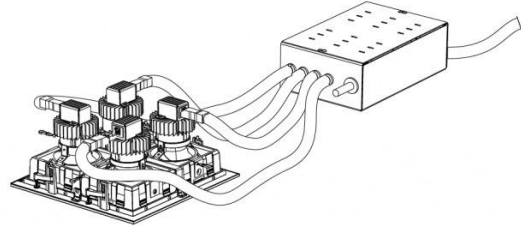


Installation types

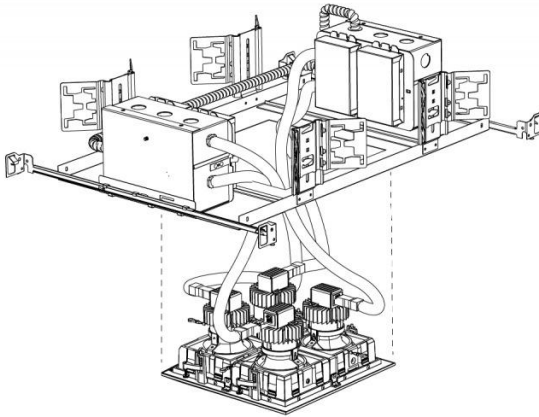
RM: Remodel non-insulated ceiling (non-plenum rated) (NO control and dimming)



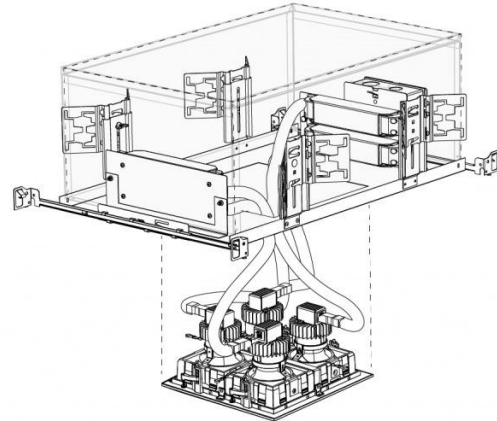
RM: Remodel non-insulated ceiling (non-plenum rated) (LT control)



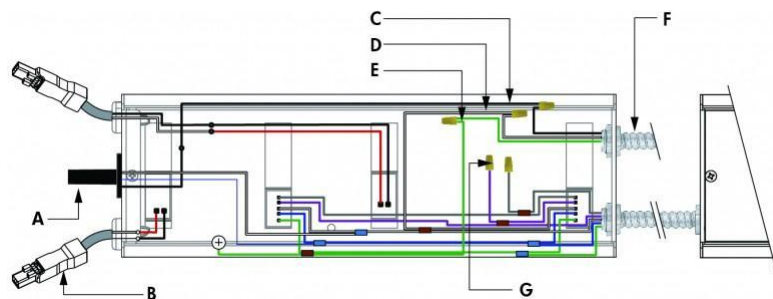
NC: New construction non-insulated ceiling (non-plenum rated) (NO control and dimming)



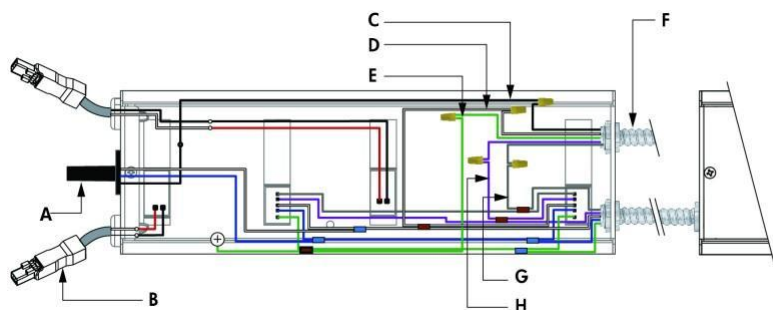
IC/CP: new construction insulated ceiling (enclosed box)



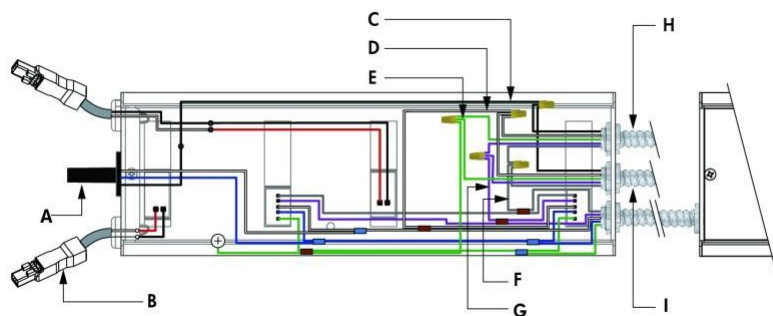
Fixture shown for reference only. Refer to Ceiling Requirements section and installation instructions for dimensions and ceiling cutout requirements.

Wiring details RM: remodel non-insulated ceiling (non-plenum rated)**On/off Control**

- A - Thermal protector
- B - Output to luminaire
- C - Line (black)
- D - Neutral (white)
- E - Ground (green)
- F - Input (conduit, fitting & locknut by others)
- G - Secure data wires if not in use

Control (DAMC, DA1, DA2, PDA1, PDA2, DALI1, DALI2, EcoSystem®)*

- A - Thermal protector
- B - Output to luminaire
- C - Line (black)
- D - Neutral (white)
- E - Ground (green)
- F - Input (conduit, fitting & locknut by others)
- G - Data - (gray)
- H - Data + (purple)

Control (Daisy Chain Layout) (DAMC, DA1, DA2, PDA1, PDA2, DALI1, DALI2, EcoSystem®)*

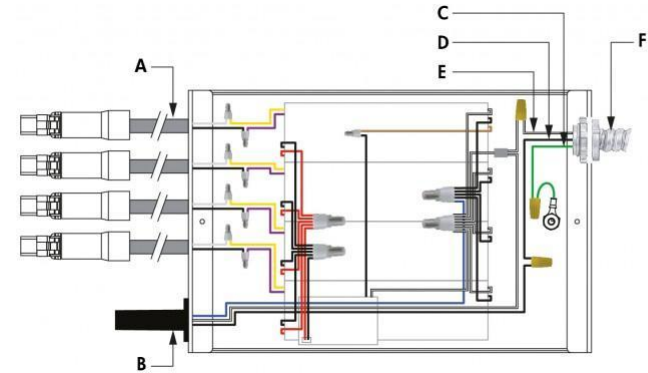
- A - Thermal protector
- B - Output to luminaire
- C - Line (black)
- D - Neutral (white)
- E - Ground (green)
- F - Data + (purple)
- G - Data - (gray)
- H - Input (conduit, fitting & locknut by others)
- I - Output to next luminaire (conduit, fitting & locknut by others)

Each Multi fixture head has its own address; a Multi 4 fixture has four EcoSystem® addresses.
Lutron® EcoSystem® Enabled dimming is not available for 700 lumens or 1000 lumens.

Refer to installation instructions for additional wiring details.

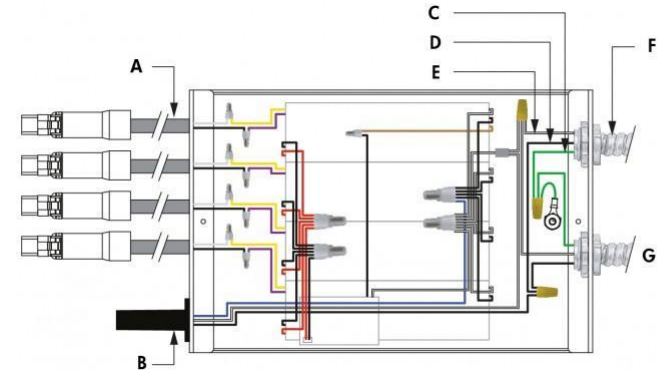
Wiring details RM: remodel non-insulated ceiling (non-plenum rated) (LT control)

Control (LT)



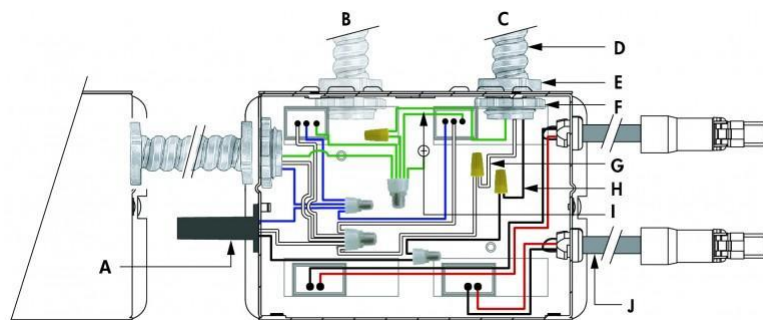
- A - Output to luminaire
- B - Thermal protector
- C - Ground (green)
- D - Line (black)
- E - Neutral (white)
- F - Input (conduit, fitting & locknut by others)

Control (Daisy Chain Layout) (LT)

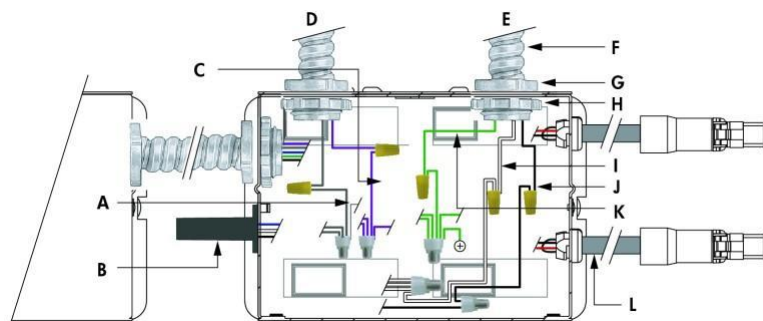


- A - Output to luminaire
- B - Thermal protector
- C - Ground (green)
- D - Line (black)
- E - Neutral (white)
- F - Input (conduit, fitting & locknut by others)
- G - Output to next luminaire

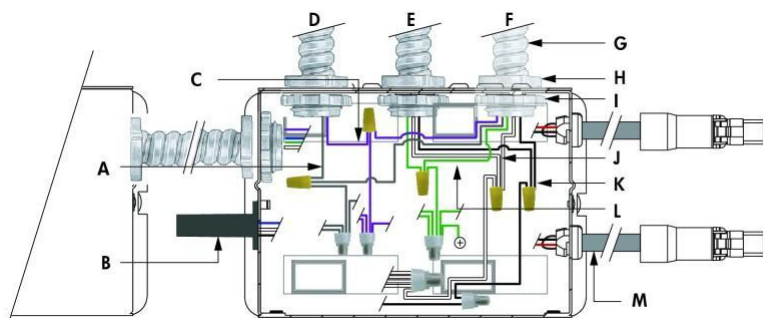
Refer to installation instructions for additional wiring details.

Wiring details NC: new construction non-insulated ceiling (non-plenum rated)**On/off Control**

- A - Thermal protector
- B - Optional Output
- C - Power Input
- D - Conduit (by others)
- E - Conduit fitting (by others)
- F - Locknut (by others)
- G - Neutral (white)
- H - Line (black)
- I - Ground (green)
- J - Output to luminaire

Control (DAMC, DA1, DA2, PDA1, PDA2, DALI1, DALI2, EcoSystem®)*

- A - Data - (gray)
- B - Thermal protector
- C - Data + (purple)
- D - Data Input from Control System
- E - Power Input
- F - Conduit (bt others)
- G - Conduit fitting (by others)
- H - Locknut (by others)
- I - Neutral (white)
- J - Line (black)
- K - Ground (green)
- L - Output to luminaire

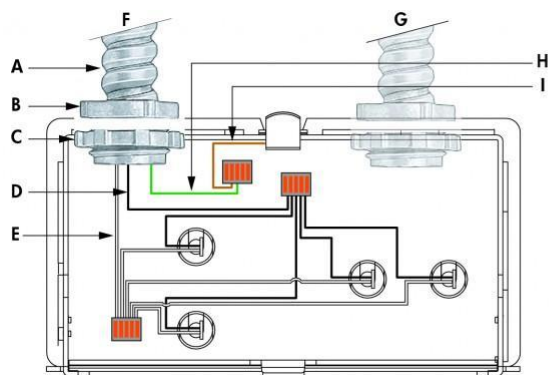
Control (Daisy Chain Layout) (DAMC, DA1, DA2, PDA1, PDA2, DALI1, DALI2, EcoSystem®)*

- A - Data - (gray)
- B - Thermal protector
- C - Data + (purple)
- D - Data Input from Control System
- E - Power Input
- F - Optional Output
- G - Conduit (bt others)
- H - Conduit fitting (by others)
- I - Locknut (by others)
- J - Neutral (white)
- K - Line (black)
- L - Ground (green)
- M - Output to luminaire

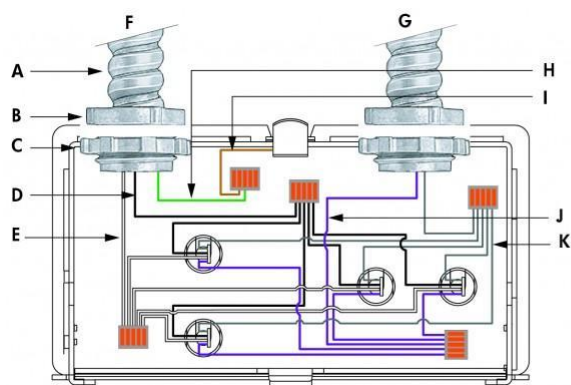
Each Multi fixture head has its own address; a Multi 4 fixture has four EcoSystem® addresses.

Lutron® EcoSystem® Enabled dimming is not available for 700 lumens or 1000 lumens.

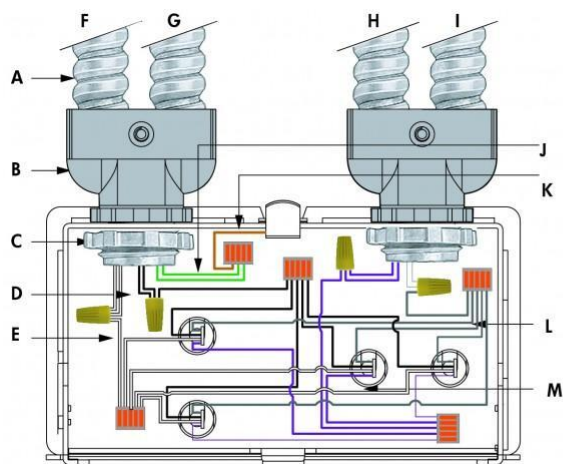
Refer to installation instructions for additional wiring details.

Wiring details IC/CP: new construction insulated ceiling (enclosed box)**On/off Control**

- A - Conduit (by others)
- B - Conduit fitting (by others)
- C - Locknut (by others)
- D - Line (black)
- E - Neutral (white)
- F - Power Input
- G - Optional Output
- H - Ground (green)
- I - Ground (copper)

Control (DA1, DA2, PDA1, PDA2, DALI1, DALI2)

- A - Conduit (by others)
- B - Conduit fitting (by others)
- C - Locknut (by others)
- D - Line (black)
- E - Neutral (white)
- F - Power Input
- G - Data Input from Control System
- H - Ground (green)
- I - Ground (copper)
- J - Data + (purple)
- K - Data - (gray)

Control (Daisy Chain Layout) (DA1, DA2, PDA1, PDA2, DALI1, DALI2)

- A - Conduit (by others)
- B - Duplex connector (by others)
- C - Locknut (by others)
- D - Line (black)
- E - Neutral (white)
- F - Power Input
- G - Power Output to next luminaire
- H - Data Input from Control System
- I - Data Output to next luminaire
- J - Ground (green)
- K - Ground (copper)
- L - Data - (gray)
- M - Data + (purple)

Refer to installation instructions for additional wiring details.

Optical Accessories

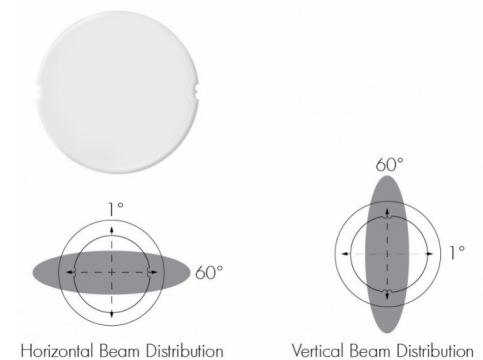
SL - Softening glass lens



CL - Clear glass lens



LSW - Linear spread lens wide (1° x 60°)



HL - Honeycomb louver



PD - Prismatic diffuser



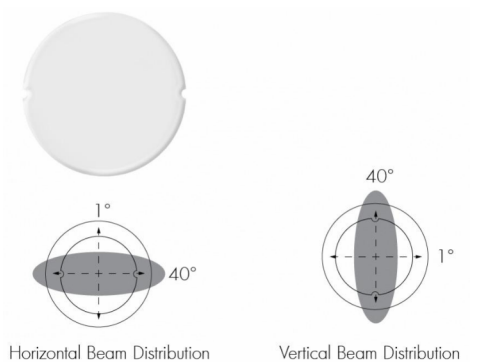
WHSN - White snoot



XLVR - Concentric ring louver



LSN - Linear spread lens narrow (1° x 40°)



BKSN - Black snoot



How to order

Housing ⁽¹⁾	Certification	Voltage ⁽²⁾	Output (nominal lumens)	Color and Color Temperature	Color Rendering	Optics (nominal distribution)	Trim Shape	Interior Finish	Trim Finish
LAMC4 Downlight Multi 4	A UL/cUL	120 120 volts 277 277 volts	L07 700 lm L10 1000 lm ⁽³⁾ L13 1300 lm ⁽⁴⁾ L20 2000 lm ⁽⁴⁾	22K 2200K ^{(5) (6)} 27K 2700K 30K 3000K 35K 3500K 40K 4000K DTW Dim to warm (2700K to 2200K) ^{(7) (8) (9)} DTWP Dim to warm plus (3500K to 1800K) ^{(7) (8) (9)} DWH Dynamic White (2700K to 6500K) ^{(8) (9) (10)} DWW Dynamic warm white (2200K to 3000K) ^{(8) (9) (10)} DWWP Dynamic warm white plus (2200K to 3500K) ^{(8) (9) (10)} CM Custom color temperature combination ⁽¹¹⁾	CR80 CRI 80+ ⁽¹²⁾ CR90 CRI 90+ ⁽¹³⁾ CR95 CRI 95+ ⁽¹⁴⁾ RCR80 Radiant CRI 80+ ^{(6) (15)} RCR95 Radiant CRI 95+ ^{(6) (14) (15)}	XN Extra narrow spot 5° ⁽¹⁶⁾ VN Very narrow spot 10° ⁽¹⁷⁾ NS Narrow spot 15° ⁽¹⁸⁾ N Narrow 25° ⁽¹⁸⁾ NFR Narrow faceted reflector 25° M Medium 40° MFR Medium faceted reflector 40° W Wide 60° WFR Wide faceted reflector 60° WW True asymmetric wallwash ^{(18) (19) (20)} CM Custom optics combination ⁽¹¹⁾	SQ Square	IWH White IBK Black	WH White BK Black NST Nickel satin TRL Trimless

- Notes:
1. Refer to website product configurator for all exceptions.
2. Consult factory for 347 volts.
3. Available for VN, NS, N, NFR, M, MFR, W, WFR and WW optics only.
4. Available for NS, N, NFR, M, MFR, W, WFR and WW optics only.
5. Available for CR80 only.
6. Not available for XN and VN optics.
7. Available for 1000 lumens when combined with CR90 and NFR, M, MFR, W or WFR optics only.
8. NFR, MFR and WFR faceted reflector optics are recommended for optimal performance.
9. Not available for WW optic.
10. Available for 700 lumens when combined with CR80 and NFR, M, MFR, W or WFR optics only.
11. Refer to the Personalized Multi Submittal Drawing download for ordering information.
12. Available for 2200K, 2700K, 3000K, 3500K, 4000K and DWH, DWW or DWWP color options only.
13. Available for 2700K, 3000K, 3500K and 4000K color options when combined with XN or VN optics only. Available for DTW and DTWP color options when combined with NFR, M, MFR, W or WFR optics only.
14. CR95 and RCR95 available up to 1300 lumens for NS and WW optics and up to 2000 lumens for N, NFR, M, MFR, W and WFR optics.
15. Radiant CRI options available for 3000K only.
16. Available for 700 lumens when combined with CR80 or CR90 color rendering options only.
17. Available for 700 and 1000 lumens when combined with CR80 or CR90 color rendering options only.
18. Not available for CR90.
19. Accessories not available for WW optic.
20. The color of the true asymmetric wallwash baffle matches the interior finish of the fixture. A white baffle is provided for a white interior finish, a black baffle is provided for a black interior finish.

How to order

Control ⁽²³⁾	Installation Type	Accessories ⁽¹⁹⁾ ⁽⁴⁵⁾ ⁽⁴⁶⁾
NO On/Off control ⁽²¹⁾ ⁽²²⁾ DAMC Standard 0-10V dimming to 1% linear curve ⁽²²⁾ ⁽²⁴⁾ ⁽²⁵⁾ ⁽²⁶⁾ DA1 Standard 0-10V dimming 1% linear ⁽²⁷⁾ ⁽²⁸⁾ DA2 Standard 0-10V dimming 1% logarithmic ⁽²⁷⁾ ⁽²⁸⁾ PDA1 Pro 0-10V dimming 0.1% linear ⁽²²⁾ ⁽²⁷⁾ PDA2 Pro 0-10V dimming 0.1% logarithmic ⁽²²⁾ ⁽²⁷⁾ SDALI1 Standard DALI dimming 1% linear ⁽²⁹⁾ SDALI2 Standard DALI dimming 1% logarithmic ⁽²⁹⁾ DALI1 Pro DALI dimming 0.1% linear ⁽²²⁾ ⁽³⁰⁾ DALI2 Pro DALI dimming 0.1% logarithmic ⁽²²⁾ ⁽³⁰⁾ DALIT8 DALI-2 dimming Type 8 (multi channel capability) ⁽³¹⁾ ⁽³²⁾ DMX/RDM DMX/RDM (configurable to 1, 2, or 3 channel control via RDM in the field) ⁽³³⁾ ⁽³⁴⁾ ES Lutron® Hi-lume 1% EcoSystem® LDE1/PEQ1 Soft-on/Fade-to-Black ⁽⁶⁾ ⁽²²⁾ ⁽³⁵⁾ LT Lumentalk ⁽³⁶⁾ ⁽³⁷⁾ PH Phase dimming (consult factory) ⁽³⁸⁾ ⁽³⁹⁾ ⁽⁴⁰⁾ PPH Pro Phase 1% dimming ⁽⁶⁾ ⁽²²⁾ ⁽³⁹⁾ ⁽⁴¹⁾	RM Remodel non-insulated ceiling (non-Plenum rated) NC New construction non-insulated ceiling (non-Plenum rated) IC New construction insulated ceiling (enclosed box) ⁽⁴²⁾ ⁽⁴³⁾ ⁽⁴⁴⁾ CP New construction insulated ceiling - Chicago plenum rated option (airtight, enclosed box) ⁽⁴²⁾ ⁽⁴³⁾ ⁽⁴⁴⁾	NA No accessory SL Softening glass lens HL Honeycomb louver ⁽⁴⁷⁾ XLVR Concentric ring louver ⁽⁴⁸⁾ CL Clear glass lens PD Prismatic diffuser ⁽⁴⁹⁾ LSN Linear spread lens narrow (1° x 40°) ⁽⁵⁰⁾ LSW Linear spread lens wide (1° x 60°) ⁽⁵⁰⁾ WHSN White snoot BKSN Black snoot CM Custom accessory combination ⁽¹¹⁾

- Notes:**
- 6. Not available for XN and VN optics.
 - 11. Refer to the Personalized Multi Submittal Drawing download for ordering information.
 - 19. Accessories not available for WW optic.
 - 21. Manufacturer's choice driver. Order code may change to NO1.
 - 22. Not available for DTW, DTWP, DWH, DWW or DWWP color options.
 - 23. Control options vary according to color temperature, color rendering, optics and installation type combination. Refer to website product configurator for details.
 - 24. Manufacturer's choice driver. Order code may change to DAMC1 or DAMC2.
 - 25. Not available for XN and VN optics.
 - 26. Available for RM and NC installation types only.
 - 27. Driver cuts off power to the fixture when the control signal drops below 0.5V.
 - 28. Not available for DWH, DWW or DWWP color options.
 - 29. Available for DTW and DTWP color options only, when combined with 1000 lumens.
 - 30. Consult factory for other DALI control options for static color temperatures.
 - 31. Available for DWH, DWW and DWWP color options only. DALI-2 Type 8 controller required.
 - 32. Consult factory for DALIT8 control option.
 - 33. A Control Box (CBX-DS or CBX-ST) and lumenID (LID) must be specified.
 - 34. Available for DTW, DTWP, DWH, DWW and DWWP color options only
 - 35. One EcoSystem® address per fixture. 1% minimum dimming value. Lutron® EcoSystem® Enabled dimming not available for TRL trimless version. Lutron® EcoSystem® Enabled dimming available for RM and NC installation types only. Lutron® EcoSystem® Enabled dimming not available for 700 lumens or 1000 lumens.
 - 36. 1% minimum dimming value. Lumentalk dimming available for RM installation type when combined with 2200K, 2700K, 3000K, 3500K or 4000K color options and any of the optic options. Lumentalk dimming available for NC installation type when combined with 2200K, 2700K, 3000K, 3500K or 4000K color options and XN or VN optic options. Lumentalk is available for RM and NC installation types when combined with DTW, DTWP, DWH, DWW or DWWP color options and NFR, M, MFR, W or WFR optic options. Lumentalk dimming available up to 1000 lumens (CR80 or RCR80).
 - 37. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
 - 38. Manufacturer's choice driver. Order code may change to PH1 or PH2.
 - 39. Available for 120V only. Not available for IC and CP installation types.
 - 40. Available for 2700K, 3000K, 3500K and 4000K color options when combined with XN or VN optics only.
 - 41. Manufacturer's choice driver. Order code is subject to change.
 - 42. Insulated ceiling available up to 700 lumens (CR80, RCR80, CR95 or RCR95), 1000 lumens (CR80 or RCR80).
 - 43. Insulated ceiling available for DTW or DTWP color options when combined with the DA1, DA2, SDALI1 or SDALI2 control options.
 - 44. Not available for DWH, DWW or DWWP color options.
 - 45. Factory installed.
 - 46. One lens or honeycomb louver can be installed per fixture. The snoot can be combined with any accessory.
 - 47. HL accessory is available for 2200K, 2700K, 3000K, 3500K and 4000K color options only.
 - 48. Available for XN, VN and NS optics only. The concentric ring louver cannot be combined with other accessories.
 - 49. Can be combined with HL accessory for 2200K, 2700K, 3000K, 3500K and 4000K color options only.
 - 50. Available for XN, VN, NS, N and NFR optics when combined with 2200K, 2700K, 3000K, 3500K, 4000K color options only. Available for NFR optic only when combined with DTW, DTWP, DWH, DWW or DWWP color options only.

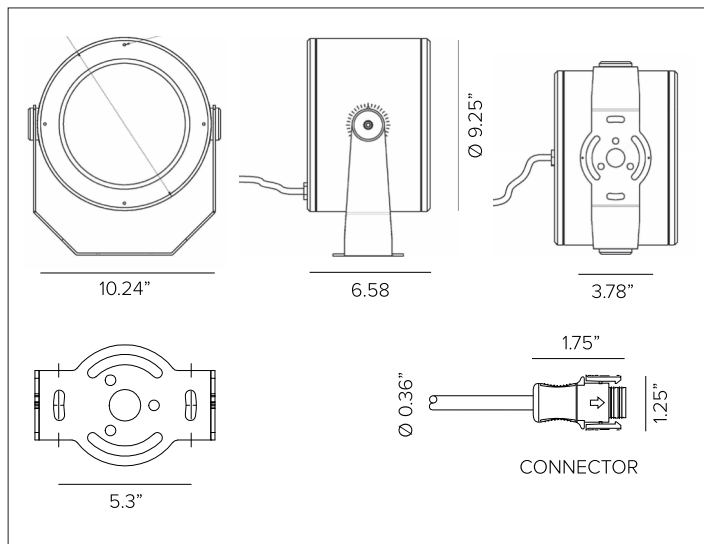
- 36. 1% minimum dimming value. Lumentalk dimming available for RM installation type when combined with 2200K, 2700K, 3000K, 3500K or 4000K color options and any of the optic options. Lumentalk dimming available for NC installation type when combined with 2200K, 2700K, 3000K, 3500K or 4000K color options and XN or VN optic options. Lumentalk is available for RM and NC installation types when combined with DTW, DTWP, DWH, DWW or DWWP color options and NFR, M, MFR, W or WFR optic options. Lumentalk dimming available up to 1000 lumens (CR80 or RCR80).
- 37. A Lumentranslator 2 (LTL2) and LumentalkID (LIDLT) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
- 38. Manufacturer's choice driver. Order code may change to PH1 or PH2.
- 39. Available for 120V only. Not available for IC and CP installation types.
- 40. Available for 2700K, 3000K, 3500K and 4000K color options when combined with XN or VN optics only.
- 41. Manufacturer's choice driver. Order code is subject to change.
- 42. Insulated ceiling available up to 700 lumens (CR80, RCR80, CR95 or RCR95), 1000 lumens (CR80 or RCR80).
- 43. Insulated ceiling available for DTW or DTWP color options when combined with the DA1, DA2, SDALI1 or SDALI2 control options.
- 44. Not available for DWH, DWW or DWWP color options.
- 45. Factory installed.
- 46. One lens or honeycomb louver can be installed per fixture. The snoot can be combined with any accessory.
- 47. HL accessory is available for 2200K, 2700K, 3000K, 3500K and 4000K color options only.
- 48. Available for XN, VN and NS optics only. The concentric ring louver cannot be combined with other accessories.
- 49. Can be combined with HL accessory for 2200K, 2700K, 3000K, 3500K and 4000K color options only.
- 50. Available for XN, VN, NS, N and NFR optics when combined with 2200K, 2700K, 3000K, 3500K, 4000K color options only. Available for NFR optic only when combined with DTW, DTWP, DWH, DWW or DWWP color options only.

DART ROUND MAXI

Professional Adjustable Floodlight



DART ROUND MAXI shown in Ferrite Dark Grey finish.



CONCEPT

Fully adjustable LED projector with high output.

MECHANICAL CHARACTERISTICS

Dimensions	10.24"W x 6.58"D
Materials	Die-cast aluminum powder coated body and joints for maximum heat dissipation.
Finish	Textured finish. <div> <div></div> Ferrite Dark Grey <div></div> Heritage Brown <div></div> Bronze </div> <div> <div></div> Black <div></div> White <div></div> Sandstone Grey </div>
Power Connection	Cabled with 10ft SJ00W 16-6 cable and DSMT anti-wicking quick disconnect.
Functionality	Adjustable up to $\pm 45^\circ$ on the horizontal plane with slotted mounting base and $+90^\circ/-45^\circ$ on the vertical plane with aim locking set screw.
Mounting	Fixture can be installed directly to mounting surface or used with optional mounting installation accessories.
Weight	13lbs
Protection	IP66
Impact	IK10

CERTIFICATIONS

cULus Wet Location Listed.
Tested in accordance with LM-79-08.
Compliant for California installations.
IEC 62471
RoHS3 EU 215/863

WARRANTY

5 year limited warranty

SUSTAINABILITY

Luminaire designed for disposal/recycling at end-of-life. Replaceable LED light source and control gear by a Targetti technician.

ELECTRICAL CHARACTERISTICS

Power Supply	Integrated 4/1 smart driver (Non-Dimmable / 0-10V / Reverse Phase / Forward Phase).
Wattage	15W (NSP), 69W (SP, FL, MWFL, WFL)
Voltage	Universal Voltage 120-277V AC 50/60Hz

SOURCE

NSP uses high efficiency LED Emitter. SP, FL, and MWFL use high efficiency LED Chip on Board with optimized melanopic ratios.

TM30	CCT (Nominal)	CRI	Rf	Rg	MR	SDCM
	2700K	80	81	80	97	2
	3000K	80	82	82	97	2
	3500K	80	82	81	97	2
	4000K	80	82	81	97	2
	5000K	80	82	81	97	2

Ra90 available upon request

OPTIC

Optical system is dependent on beam angle. NSP version comprised of an indirect optic with a LED module directed towards the reflective anodized aluminum parabolic reflector, a transparent PMMA refractive lens and TACS (Targetti advanced cooling system). SP and FL versions comprised of a hybrid optic with anodized mirrored aluminum reflector, optical glass lenses, a black anodized aluminum lens holder and a holographic filter. MWFL and WFL versions comprised of precision optics with convex reflective anodized aluminum facets and a holographic lens.

Beam	NSP 5°	SP 20°	FL 28°	MWFL 43°	WFL 59°
Delivered Lumens	3000K 895Lm	4621Lm	5194Lm	6262Lm	6271Lm
	For 2700K lumen values use multiplier of 0.96 from 3000K. For 3500K lumen values use multiplier of 1.02 from 3000K. For 5000K lumen values use multiplier of 1.02 from 4000K.				
Efficacy	119Lm/W max. Refer to photometric graphs for specific values.				
Lifetime	NSP: L90/B10 30,000hrs / L87/B10 50,000hrs at max TA +25°C SP: L82/B10 30,000hrs / L73/B10 50,000hrs at max TA +25°C FL: L83/B10 30,000hrs / L74/B10 50,000hrs at max TA +25°C MWFL / WFL: L84/B10 30,000hrs / L76/B10 50,000hrs at max TA +25°C				
Photobiological Classification	Low risk safety RG1				

DART ROUND MAXI

SPECIFICATION INFORMATION

DRL						/	/	/
1	2	3	4	5	6	7	8	9
Ex: DRL41FEL1NS30/DRL41FEL2FL27						OPTIONAL		

1 - PRODUCT	2 - DRIVER	3 - FINISH	4 - WATTAGE	5 - OPTIC	6 - KELVIN
DRL — DART ROUND MAXI	41 — 4/1 Smart Dimming (Non-Dimming / 0-10V / Reverse Phase / Forward Phase)	FE — Ferrite Dark Grey HB — Heritage Brown BZ — Bronze WT — White BT — Black SG — Sandstone Grey RAL — Custom RAL	L1 ^B — 15W L2 ^C — 69W	NS — NSP 5° SP — SP 20° FL — FL 28° MW — MWFL 43° WF — WFL 59°	27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K 50 — 5000K
7 - OPTIONAL	8 - EXTERNAL OPTICAL ACCESSORIES	9 - INSTALLATION ACCESSORIES			
MG ^A — Marine Grade	Blade of Light Linear Spread Lens See section for details Anti-glare Louver See section for details Asymmetric Snoot See section for details Symmetric Snoot See section for details Symmetric Super Snoot See section for details	Rotational Bracket See section for details Earth spike See section for details			

^A Marine Grade is recommended for use in environments with occasional exposure to salt air, reclaimed water, fertilizers, chemical cleaners, or frequent pressure washing (steam) cleaning. Fixture housing complete with marine grade cataphoresis suitable for use in marine grade environments. Not to be in direct contact with salt or corrosive agents for extended periods of time.

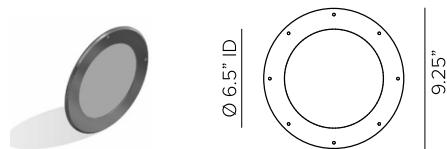
^B 15W available with NSP only.

^C 69W available with SP, FL, MWFL, WFL only.

DART ROUND MAXI

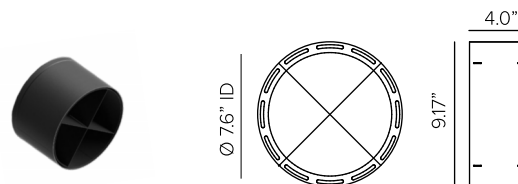
8 - EXTERNAL OPTICAL ACCESSORIES (OPTIONAL)

MAXIMUM OF TWO ACCESSORIES PER FIXTURE.



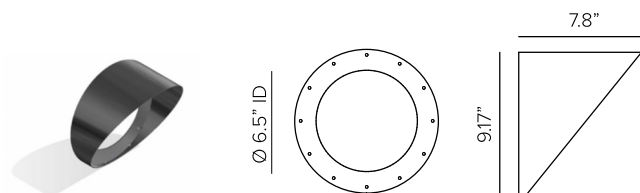
Blade Light Linear Spread Lens. PMMA holographic filter.

Part No. **1E4010 (*)**



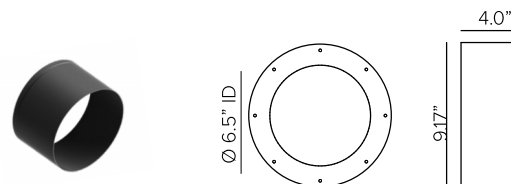
Anti glare Louver with removable baffles for different levels of glare control. Powder coat stainless steel. Cutoff 52°. **Not compatible with 1E4011, 14012, or 1E4059.**

Part No. **1E4013 (*)**



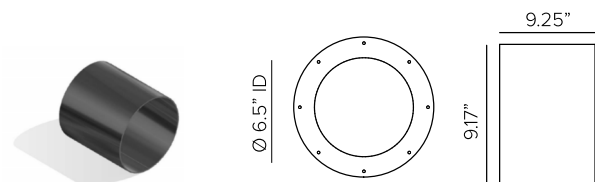
Asymmetric snoot. Powder coated stainless steel. Cutoff 53°. **Not compatible with 1E4012, 14013, or 1E4059.**

Part No. **1E4011 (*)**



Symmetric snoot. Powder coated stainless steel. Cutoff 104°. **Not compatible with 1E4011, 14013, or 1E4059.**

Part No. **1E4012 (*)**

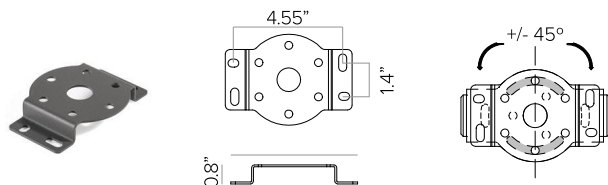


Symmetric super snoot. Powder coated stainless steel. Cutoff 45°. **Not compatible with 1E4011, 14012, or 14013.**

Part No. **1E4059 (*)**

9 - INSTALLATION ACCESSORIES (OPTIONAL)

MAXIMUM OF ONE ACCESSORY PER FIXTURE.



Rotational bracket for surface installation. Powder coated stainless steel.

Part No. **1E3026 (*)**



Earth spike. Powder coated stainless steel.

Part No. **1E3188 (*)**

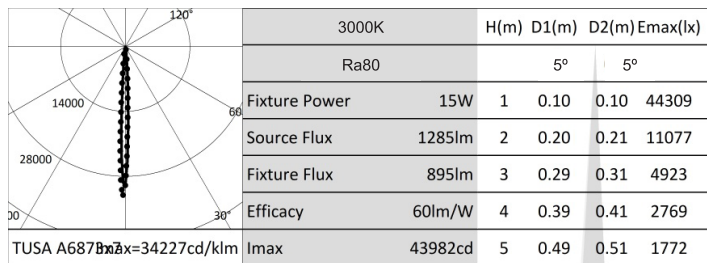
Ferrite Dark Grey (Default)
 Heritage Brown (HB)*
 Bronze (BZ)*
 White (WT)*
 Black (BT)*
 Sandstone Grey (SG)*

*Add suffix to end of number to identify finish (EX. 1E3026HB)

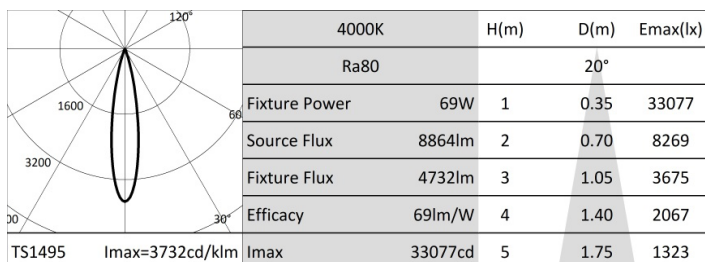
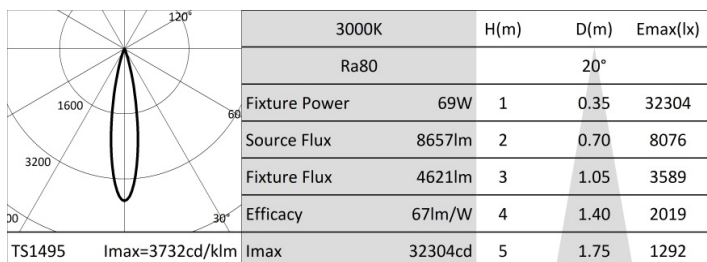
DART ROUND MAXI

PHOTOMETRY

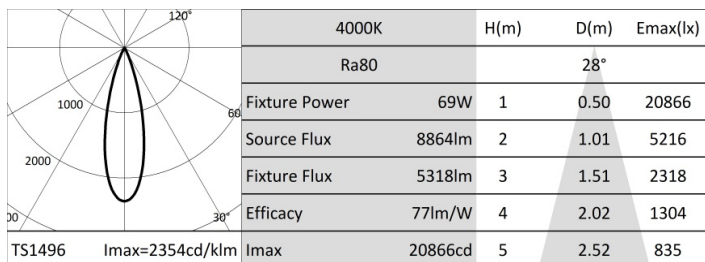
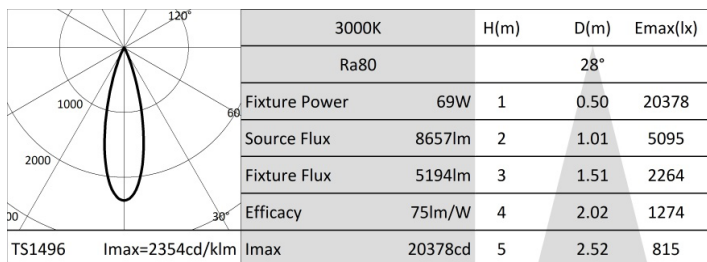
NARROW SPOT



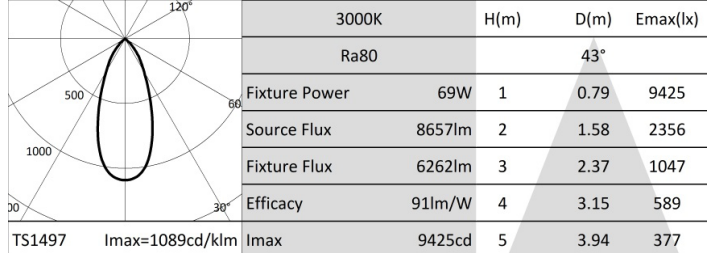
SPOT



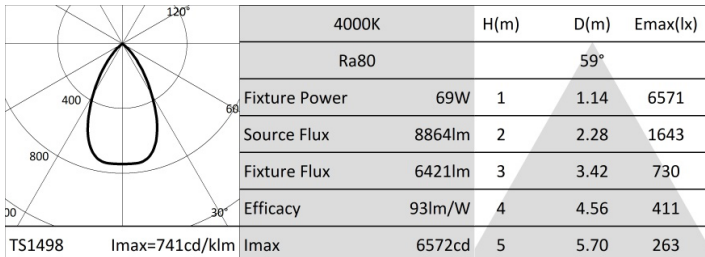
FLOOD



MEDIUM WIDE FLOOD



WIDE FLOOD

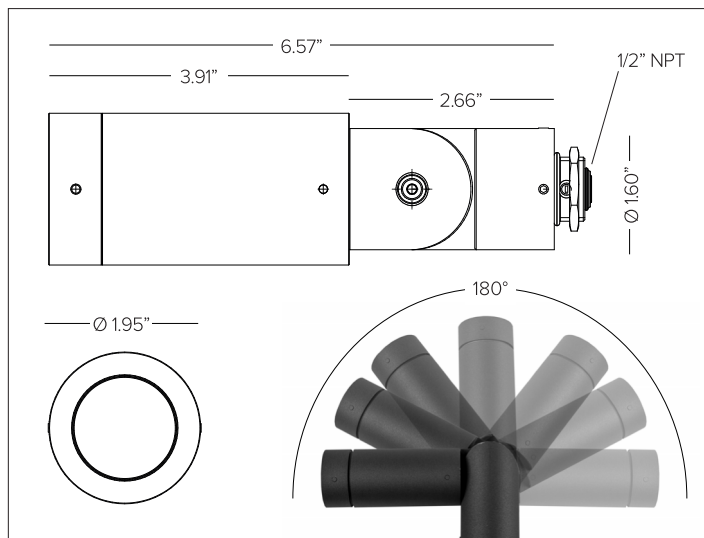


BULLETTO

Compact Adjustable Floodlight Projector



BULLETTO shown in Ferrite Dark Grey finish.



CONCEPT

Compact projector flood light for high intensity applications.

MECHANICAL CHARACTERISTICS

Housing	1.95"Dia. X 6.57"L
Materials	Aluminum body and joints for maximum heat dissipation.
Finish	Textured finish. <div> <div>Ferrite Dark Grey</div> <div>Heritage Brown</div> <div>Bronze</div> <div>Black</div> <div>White</div> <div>Sandstone Grey</div> </div>
Power Connection	Pre-cabled with 10' Belden direct burial 18ga 3 conductor cable for connection to remote power supply.
Functionality	Modular body for toolless maintenance. IP66 protection rated optical chamber with removable front cap for simple toolless field interchangeability of optics and accessories.
Mounting	Adjustable up to 180° on the vertical surface with aim lock set screw, 360° rotatable on the horizontal axis. Brass counter nut with 1/2" NPS mounting stem suitable for direct j-box mount. Optional installation accessories for additional mountings.
Weight	1.4lbs
Protection	IP66
Impact	IK08

CERTIFICATIONS

cULus Class 2 Wet Location Listed E479873.
 Tested in accordance with LM-79-08.
 Compliant for California installations.
 IEC 62471
 RoHS3 EU 215/863

WARRANTY

5 year limited warranty
^A Fixture suitable for use in marine grade environments. Not to be in direct contact with salt or corrosive agents for extended periods of time.

SUSTAINABILITY

Luminaire designed for disposal/recycling at end-of-life. Replaceable LED light source and control gear by a Targetti technician.

ELECTRICAL CHARACTERISTICS

Power Supply	Remote Class 2 120V-277V AC power supply required, ordered separately.
Wattage	8W (NSP) / 12W (SP/FL/MFL/WFL)
Voltage	24V DC






SOURCE

High efficiency LED Emitter

TM30	CCT (Nominal)	CRI	Rf	Rg	SDCM
	2700K	90	88	95	2
	3000K	90	91	98	2
	3500K	90	89	96	2
	4000K	90	88	94	2

OPTIC

Optical system is dependent on beam angle. NSP version PMMA lens and fixed holographic filter. SP / FL / MWFL / WFL versions equipped with PMMA lens and interchangeable optical holographic lens, factory preset per specified optic with other beams included in packaging.

						
Beam		NSP 8°	SP 15°	FL 24°	MWFL 31°	WFL 44°
Delivered Lumens	2700K	362Lm	679Lm	642Lm	648Lm	634Lm
	3000K	394Lm	738Lm	698Lm	704Lm	689Lm
	3500K	421Lm	790Lm	747Lm	753Lm	737Lm
	4000K	421Lm	790Lm	747Lm	753Lm	737Lm
Efficacy	66Lm/W max. Refer to photometric graphs for specific values.					
Lifetime	L96/B10 30,000hrs at max TA +25°C L95/B10 50,000hrs at max TA +25°C L94/B10 80,000hrs at max TA +25°C L93/B10 100,000hrs at max TA +25°C					

Photobiological Classification Low risk safety RG1

BULLETTTO

SPECIFICATION INFORMATION

BLT									
1	2	3	4	5	6	7	8	9	10

Ex: BLTRPFEL1NS30

REQUIRED **OPTIONAL**

1 - PRODUCT CODE	2 - DRIVER	3 - FINISH	4 - WATTAGE	5 - OPTIC	6 - KELVIN	7 - POWER SUPPLY
BLT — BULLETTTO	RP — Remote Power	FE — Ferrite Dark Grey	L1 — 8W	NS — NSP 8°	27 — 2700K	Power Supply See section for details
		HB — Heritage Brown	L2 — 12W	SP — SP 15°	30 — 3000K	
		BZ — Bronze		FL — FL 24°	35 — 3500K	
		WT — White		MF — MWFL 31°	40 — 4000K	
		BT — Black		WF — WF 44°		
		SG — Sandstone Grey				
		RAL — Custom RAL				
8 - OPTICAL ACCESSORIES	9 - INSTALLATION ACCESSORIES	10 - TREE MOUNTING INSTALLATION				
Blade of Light Linear Spread Lens See section for details	Surface Mount Bracket See section for details	Tree Strap See section for details				
Anti-glare Louver See section for details	Low Profile Surface Canopy See section for details	Fixture Bracket See section for details				
Asymmetric Screen See section for details	Earth Spike See section for details	Wiring Connection Box See section for details				
Lumishape See section for details	Permapost See section for details	Mesh Protective Wiring See section for details				

OPTIC DETAILS

Fixed Optic (NSP)

*Interchangeable Multi Optic (SP / FL / MWFL / WFL)
 Factory preset per specified optic with other beams
 included in packaging.*



BULLETTO

7 - POWER SUPPLY (REQUIRED)

ENCLOSURE

Part No.	Wattage	Control	Dim Range	Rating	In / Out Voltage	Certification	Dimensions (Enclosure)	Description
DMLE301242UD	30W	MLV / ELV / 0-10V / TRIAC	MLV 10% / ELV 10% / 0-10V 5%	NEMA3R	120-277V / 24V	UL Class 2	4.47" X 6.79" X 1.38"	EMCOD MLE-UD electronic driver with wiring compartment.
DMLE601242UD	60W	MLV / ELV / 0-10V / TRIAC	MLV 10% / ELV 10% / 0-10V 5%	NEMA3R	120-277V / 24V	UL Class 2	4.47" X 6.79" X 1.38"	EMCOD MLE-UD electronic driver with wiring compartment.
DMLE961242UD	96W	MLV / ELV / 0-10V / TRIAC	MLV 10% / ELV 10% / 0-10V 5%	NEMA3R	120-277V / 24V	UL Class 2	5.16" X 7.73" X 1.54"	EMCOD MLE-UD electronic driver with wiring compartment.
DMLE1922242UD	2X96W	MLV / ELV / 0-10V / TRIAC	MLV 10% / ELV 10% / 0-10V 5%	NEMA3R	120-277V / 24V	UL Class 2	5.04" X 10.94" X 1.81"	EMCOD MLE-UD electronic driver with wiring compartment.
DMLE2882242UD	3X96W	MLV / ELV / 0-10V / TRIAC	MLV 10% / ELV 10% / 0-10V 5%	NEMA3R	120-277V / 24V	UL Class 2	5.04" X 10.94" X 1.81"	EMCOD MLE-UD electronic driver with wiring compartment.

MAX FIXTURES PER DRIVER

Fixture Wattage	Driver Wattage				
	30W	60W	96W	2X96W	3X96W
	8W	3	6	9	9+9
12W	2	4	7	7+7	7+7+7

BULLETTO

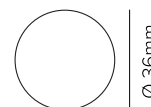
8 – OPTICAL ACCESSORIES (OPTIONAL)

MAXIMUM OF TWO ACCESSORIES PER FIXTURE.



Integral 'Blade of Light' linear spread lens PMMA holographic filter.

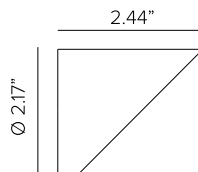
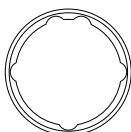
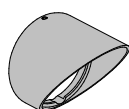
Part No. **1E3790**



Integral honeycomb anti-glare louver.

Finish **● Deep Black**

Part No. **1E3792**



External asymmetric snoot. Powder coated stainless steel. Cutoff 20°.

Part No. **1E3788 (*)**

● Ferrite Dark Grey (Default) ● Heritage Brown (HB)* ● Bronze (BZ)* ● White (WT)* ● Black (BT)* ● Sandstone Grey (SG)*

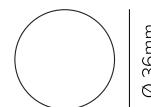
***Add suffix to end of number to identify finish (EX. 1E3788HB)**



Water jet cut stainless steel round pinhole LUMISHAPE light shield. **Performs best with SP optic.**

Finish **● Deep Black**

Part No. **LS03601**



Water jet cut stainless steel round circular LUMISHAPE light shield. **Performs best with SP or FL optic.**

Finish **● Deep Black**

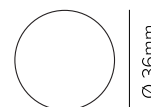
Part No. **LS03602**



Water jet cut stainless steel square pinhole LUMISHAPE light shield. **Performs best with SP optic.**

Finish **● Deep Black**

Part No. **LS03603**



Water jet cut stainless steel regular square LUMISHAPE light shield. **Performs best with SP or FL optic.**

Finish **● Deep Black**

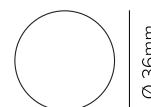
Part No. **LS03604**



Water jet cut stainless steel half LUMISHAPE light shield. **Stackable up to 4pcs per fixture; 4pcs accounts to 1 accessory toward maximum accessory count. Performs best with FL or MFL optic.**

Finish **● Deep Black**

Part No. **LS03605**



Water jet cut stainless steel quarter LUMISHAPE light shield. **Stackable up to 4pcs per fixture; 4pcs accounts to 1 accessory toward maximum accessory count. Performs best with FL or MFL optic.**

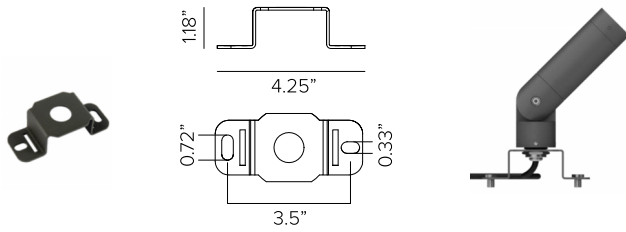
Finish **● Deep Black**

Part No. **LS03606**

BULLETTTO

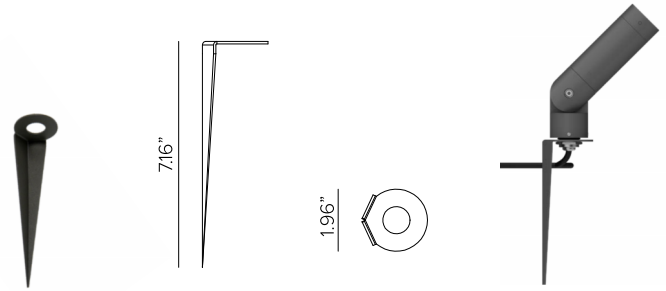
9 – INSTALLATION ACCESSORIES (OPTIONAL)

MAXIMUM OF ONE ACCESSORY PER FIXTURE



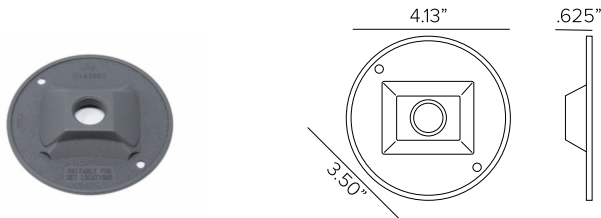
Surface mounting bracket. Powder coated stainless steel.

Part No. **1E3786 (*)**



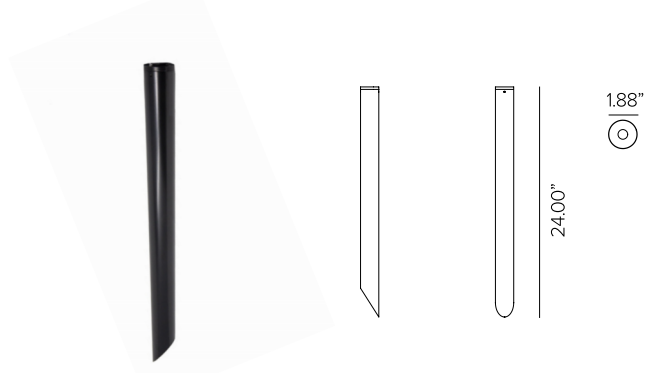
Earth spike. Powder coated stainless steel.

Part No. **1E3785 (*)**



Low Profile surface canopy. Powder coated aluminum with 1/2" NPT to mount over standard 4" Dia. round outdoor j-box.

Part No. **1BLTSMCVR (*)**



BULLETTTO aluminum permastake with 1/2" NPT and 1ea stabilizer.

Finish **● Deep Black**

Part No. **PRMP24BK**

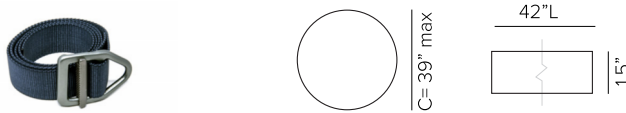
● Ferrite Dark Grey (Default) ● Heritage Brown (HB)* ● Bronze (BZ)* ● White (WT)* ● Black (BT)* ● Sandstone Grey (SG)*

***Add suffix to end of number to identify finish (EX. 1E3786HB)**

BULLETT

10 – TREE MOUNTING INSTALLATION (OPTIONAL)

SINGLE STRAP FOR USE WITH OF UP TO 3 FIXTURES



Single tree strap comprised of durable Nylon webbing flexible strap with high strength aircraft aluminum V-ring buckle in Gunmetal finish and lock-in loop to prevent slipping. **Strap is made to coordinate with up to 3 fixtures and 1 wiring connection box. Strap fits trees 39" max circumference or smaller. (REQUIRED)**

Finish Olive Green Coyote Brown Graphite Grey

Part No. **TTS0101** **TTS0102** **TTS0103**



Fixture bracket comprised of powder coated stainless steel for use with tree strap. **Maximum of 3 brackets can be per single strap. (REQUIRED)**

Finish Ferrite Dark Grey Bronze

Part No. **TTBLT0101** **TTBLT0102**



Tree Strap Connection Box. Painted aluminum UL listed 9in³ j-box with 3ea 3/8" cable glands and 1ea 1/2" cable gland. Mounting bracket for tree strap included. Used to connect multiple 24V DC low voltage cables for one continuous cable connection down the tree to remote driver, additional cable provided by others. **Can be used for up to 3 fixture connections per tree strap. (OPTIONAL)**

Finish Ferrite Dark Grey Bronze

Part No. **TTCB0103FG** **TTB0103BZ**

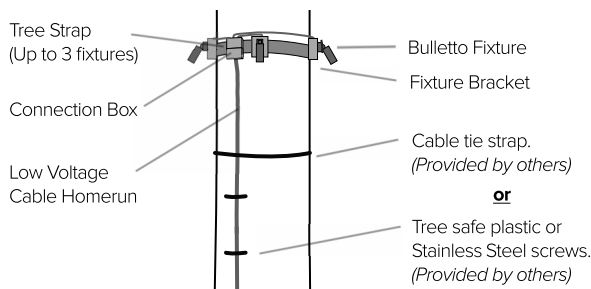


Mesh wire protection cover sleeve comprised of braided polyethylene terephthalate (PET) monofilament webbing resistant to chemical degradation, UV radiation and abrasion. 3/8" SJO Cord Sleeve, available per foot. **(OPTIONAL)**

Finish Carbon Grey Brown Forest Green

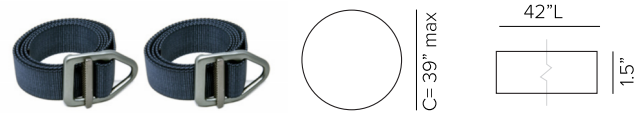
Part No. **TTSJS01** **TTSJS02** **TTSJS03**

WIRING CONFIGURATION



To be installed per local building code. Adjust the strap every 6 months in order to prevent tree damage.

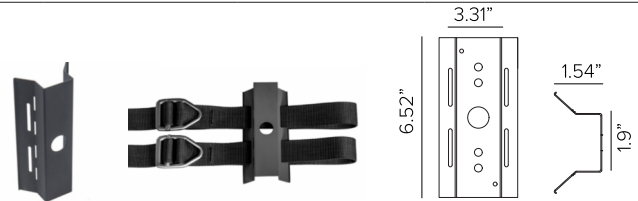
DOUBLE STRAP FOR USE WITH OF UP TO 8 FIXTURES



Durable 1.5 inch wide Nylon webbing Strap is flexible with High Strength Aircraft Aluminum V-ring Buckle in Gunmetal finish and lock in loop to prevent slipping. **Strap is made to coordinate with up to 8 fixtures and 2 wiring connection boxes. Strap fits trees 39" max circumference or smaller. (REQUIRED)**

Finish Ferrite Dark Grey Bronze Graphite Grey

Part No. **TTS0106** **TTS0104** **TTS0105**



Fixture bracket comprised of powder coated stainless steel for use with tree strap. **Maximum of 3 brackets can be per double strap. (REQUIRED)**

Finish Ferrite Dark Grey Bronze

Part No. **TTBLT0201** **TTBLT0202**

Tree Strap Connection Box. Painted aluminum UL listed 13in³ j-box with 3ea 3/8" cable glands and 1ea 1/2" cable gland. Mounting bracket for tree strap included. Used to connect multiple 24V DC low voltage cables for one continuous cable connection down the tree to remote driver, additional cable provided by others. **Can be used for up to 5 fixture connections per tree strap. (OPTIONAL)**

Finish Ferrite Dark Grey Bronze

Part No. **TTCB0104FG** **TTB0104BZ**

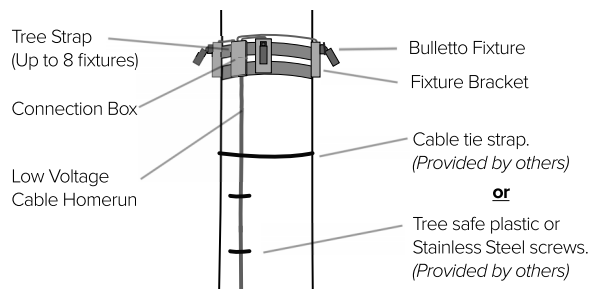


Mesh wire protection cover sleeve comprised of braided polyethylene terephthalate (PET) monofilament webbing resistant to chemical degradation, UV radiation and abrasion. 3/8" SJO Cord Sleeve, available per foot. **(OPTIONAL)**

Finish Carbon Grey Brown Forest Green

Part No. **TTSJS01** **TTSJS02** **TTSJS03**

WIRING CONFIGURATION



To be installed per local building code. Adjust the strap every 6 months in order to prevent tree damage.

BULLETTO

PHOTOMETRY

IES FILES WATTAGE AND EFFICIENCY CALCULATIONS BASED WITH SUPPLIED DRIVER

NARROW SPOT

	2700K	H(m)	D(m)	Emax(lx)
	Ra90		8°	
	Fixture Power	8W	1	0.15 11580
	Source Flux	479lm	2	0.30 2895
	Fixture Flux	362lm	3	0.44 1287
	Efficacy	47lm/W	4	0.59 724
TS1404	Imax=24196cd/klm	Imax	11580cd	5 0.74 463

	3500K	H(m)	D(m)	Emax(lx)
	Ra90		8°	
	Fixture Power	8W	1	0.15 13470
	Source Flux	557lm	2	0.30 3367
	Fixture Flux	421lm	3	0.44 1497
	Efficacy	54lm/W	4	0.59 842
TS1404	Imax=24196cd/klm	Imax	13470cd	5 0.74 539

	3000K	H(m)	D(m)	Emax(lx)
	Ra90		8°	
	Fixture Power	8W	1	0.15 12587
	Source Flux	520lm	2	0.30 3147
	Fixture Flux	394lm	3	0.44 1399
	Efficacy	51lm/W	4	0.59 787
TS1404	Imax=24196cd/klm	Imax	12587cd	5 0.74 503

	4000K	H(m)	D(m)	Emax(lx)
	Ra90		8°	
	Fixture Power	8W	1	0.15 13470
	Source Flux	557lm	2	0.30 3367
	Fixture Flux	421lm	3	0.44 1497
	Efficacy	54lm/W	4	0.59 842
TS1404	Imax=24196cd/klm	Imax	13470cd	5 0.74 539

SPOT

	2700K	H(m)	D(m)	Emax(lx)
	Ra90		15°	
	Fixture Power	12W	1	0.27 6624
	Source Flux	908lm	2	0.54 1656
	Fixture Flux	679lm	3	0.81 736
	Efficacy	57lm/W	4	1.08 414
TS1405	Imax=7292cd/klm	Imax	6624cd	5 1.35 265

	3500K	H(m)	D(m)	Emax(lx)
	Ra90		15°	
	Fixture Power	12W	1	0.27 7701
	Source Flux	1056lm	2	0.54 1925
	Fixture Flux	790lm	3	0.81 856
	Efficacy	66lm/W	4	1.08 481
TS1405	Imax=7292cd/klm	Imax	7701cd	5 1.35 308

	3000K	H(m)	D(m)	Emax(lx)
	Ra90		15°	
	Fixture Power	12W	1	0.27 7200
	Source Flux	987lm	2	0.54 1800
	Fixture Flux	738lm	3	0.81 800
	Efficacy	62lm/W	4	1.08 450
TS1405	Imax=7292cd/klm	Imax	7200cd	5 1.35 288

	4000K	H(m)	D(m)	Emax(lx)
	Ra90		15°	
	Fixture Power	12W	1	0.27 7701
	Source Flux	1056lm	2	0.54 1925
	Fixture Flux	790lm	3	0.81 856
	Efficacy	66lm/W	4	1.08 481
TS1405	Imax=7292cd/klm	Imax	7701cd	5 1.35 308

FLOOD

	2700K	H(m)	D(m)	Emax(lx)
	Ra90		24°	
	Fixture Power	12W	1	0.43 2618
	Source Flux	908lm	2	0.85 655
	Fixture Flux	642lm	3	1.28 291
	Efficacy	54lm/W	4	1.71 164
TS1406	Imax=2883cd/klm	Imax	2618cd	5 2.14 105

	3500K	H(m)	D(m)	Emax(lx)
	Ra90		24°	
	Fixture Power	12W	1	0.43 3044
	Source Flux	1056lm	2	0.85 761
	Fixture Flux	747lm	3	1.28 338
	Efficacy	62lm/W	4	1.71 190
TS1406	Imax=2883cd/klm	Imax	3044cd	5 2.14 122

	3000K	H(m)	D(m)	Emax(lx)
	Ra90		24°	
	Fixture Power	12W	1	0.43 2846
	Source Flux	987lm	2	0.85 712
	Fixture Flux	698lm	3	1.28 316
	Efficacy	58lm/W	4	1.71 178
TS1406	Imax=2883cd/klm	Imax	2846cd	5 2.14 114

	4000K	H(m)	D(m)	Emax(lx)
	Ra90		24°	
	Fixture Power	12W	1	0.43 3044
	Source Flux	1056lm	2	0.85 761
	Fixture Flux	747lm	3	1.28 338
	Efficacy	62lm/W	4	1.71 190
TS1406	Imax=2883cd/klm	Imax	3044cd	5 2.14 122

BULLETTO

PHOTOMETRY

IES FILES WATTAGE AND EFFICIENCY CALCULATIONS BASED WITH SUPPLIED DRIVER

MEDIUM WIDE FLOOD

	2700K	H(m)	D(m)	Emax(lx)		
	Ra90		31°			
	Fixture Power	12W	1	0.55	1741	
	Source Flux	908lm	2	1.09	435	
	Fixture Flux	648lm	3	1.64	193	
	Efficacy	54lm/W	4	2.18	109	
TS1407	I _{max} =1916cd/klm	I _{max}	1741cd	5	2.73	70

	3500K	H(m)	D(m)	Emax(lx)		
	Ra90		31°			
	Fixture Power	12W	1	0.55	2024	
	Source Flux	1056lm	2	1.09	506	
	Fixture Flux	753lm	3	1.64	225	
	Efficacy	63lm/W	4	2.18	126	
TS1407	I _{max} =1916cd/klm	I _{max}	2024cd	5	2.73	81

	3000K	H(m)	D(m)	Emax(lx)		
	Ra90		31°			
	Fixture Power	12W	1	0.55	1892	
	Source Flux	987lm	2	1.09	473	
	Fixture Flux	704lm	3	1.64	210	
	Efficacy	59lm/W	4	2.18	118	
TS1407	I _{max} =1916cd/klm	I _{max}	1892cd	5	2.73	76

	4000K	H(m)	D(m)	Emax(lx)		
	Ra90		31°			
	Fixture Power	12W	1	0.55	2024	
	Source Flux	1056lm	2	1.09	506	
	Fixture Flux	753lm	3	1.64	225	
	Efficacy	63lm/W	4	2.18	126	
TS1407	I _{max} =1916cd/klm	I _{max}	2024cd	5	2.73	81

WIDE FLOOD

	2700K	H(m)	D(m)	Emax(lx)		
	Ra90		44°			
	Fixture Power	12W	1	0.82	916	
	Source Flux	908lm	2	1.63	229	
	Fixture Flux	634lm	3	2.45	102	
	Efficacy	53lm/W	4	3.27	57	
TS1408	I _{max} =1009cd/klm	I _{max}	916cd	5	4.08	37

	3500K	H(m)	D(m)	Emax(lx)		
	Ra90		44°			
	Fixture Power	12W	1	0.82	1065	
	Source Flux	1056lm	2	1.63	266	
	Fixture Flux	737lm	3	2.45	118	
	Efficacy	61lm/W	4	3.27	67	
TS1408	I _{max} =1009cd/klm	I _{max}	1065cd	5	4.08	43

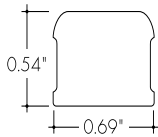
	3000K	H(m)	D(m)	Emax(lx)		
	Ra90		44°			
	Fixture Power	12W	1	0.82	996	
	Source Flux	987lm	2	1.63	249	
	Fixture Flux	689lm	3	2.45	111	
	Efficacy	57lm/W	4	3.27	62	
TS1408	I _{max} =1009cd/klm	I _{max}	996cd	5	4.08	40

	4000K	H(m)	D(m)	Emax(lx)		
	Ra90		44°			
	Fixture Power	12W	1	0.82	1065	
	Source Flux	1056lm	2	1.63	266	
	Fixture Flux	737lm	3	2.45	118	
	Efficacy	61lm/W	4	3.27	67	
TS1408	I _{max} =1009cd/klm	I _{max}	1065cd	5	4.08	43

Features



- 24VDC Class 2 and IP68 rated for wet locations, fixtures made to order up to 144". Fixtures can be linked up to 48' depending on output
- Suitable for surface mount, grazer, outdoor, wet, architectural reveals, handrail, and accent lighting
- Dot free even illumination with frosted lens
- High Color Quality options offer premium quality and vibrant colors with R9 values up to 97
- High Efficacy options offer best in class output and efficacy with over 519 lm/ft and over 70 lm/W
- Proprietary strong bond solder method handles up to 50 lbs of pull force on wire leads and connectors
- 3 Year warranty



Finish Options (see page 2 for additional information)

 Silver Anodized	 White	 Aged Brass
 Black	 Matte Black	 Polished Gold
 Bronze	 Warm Nickel	 Chrome



Technical Information

MODEL	High Color Quality			High Efficacy				High Efficacy
OUTPUT OPTIONS	72SO	72HO	72VHO	HE48LO	HE48SO	HE48MO	HE48HO	HE64VHO
Lumens Output (3000K)	142 lm/ft	231 lm/ft	281 lm/ft	138 lm/ft	191 lm/ft	256 lm/ft	411 lm/ft	519 lm/ft
Average Power Consumption (for a 4" section)	2.8 W/ft	4.8 W/ft	6 W/ft	1.9 W/ft	2.8 W/ft	3.5 W/ft	6.5 W/ft	7.5 W/ft
Efficacy	51 lm/W	48 lm/W	47 lm/W	73 lm/W	68 lm/W	73 lm/W	63 lm/W	69 lm/W
Max Run Length (in series)	40 ft	31 ft	22 ft	48 ft	42 ft	33 ft	21 ft	15 ft
Max Ambient Temperature*	50°C [122°F]		48°C [118°F]	50°C [122°F]			45°C [113°F]	39°C [102°F]

*Max Ambient Temperature to maintain L70 of 50k+ hours. Exceeding Max Ambient Temperature may result in decreased life/output. Consult Technical Support for specific inquiries.

High Color Quality (72)

CCT	Multiplier (reference - 3000K)	TM-30			
		CRI	R _f	R _g	R ₉
2700K	0.97	97	96	99	93
3000K	1.00	96	95	99	92
3500K	1.01	96	95	100	94
4000K	1.34	97	96	102	92

High Efficacy (HE48/HE64)

CCT	Multiplier (reference - 3000K)	TM-30			
		CRI	R _f	R _g	R ₉
2700K	0.94	92	90	99	46
3000K	1.00	92	89	99	62
3500K	1.02	92	89	99	58
4000K	1.02	92	86	94	52

Ordering Code

MODEL	LENGTH ¹	OUTPUT	CCT	LENS ²	MOUNTING	FINISH ³	POSITION	POWER FEED	ACCESSORIES
KMW - Kendo M Wet	12" - 144" 1" increments	72SO - Standard 72HO - High 72VHO - Very High	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	GR - Narrow Beam Grazer	FC - Fixed Clip A - Adjustable Hinge Mounting FC45 - Fixed Clip 45° EFC - Tamper Resistant Fixed Clip	SA - Silver Anodized BK - Black BZ - Bronze WH - White MB - Matte Black WN - Warm Nickel LB - Light Brass PG - Polished Gold ⁴ CH - Chrome ⁴	E - End B - Back S - Side	1 - 72" wire leads 1X2 - 72" wire leads at both ends 2 - 72" wire leads at one end and Quick Connect at other 3 - Single Quick Connect 4 - Quick Connect at both ends	N/A, leave blank BLS - Blade louver, Silver BLBK - Blade louver, Black BLWH - Blade louver, White GSS - Glare shield, Silver GSBK - Glare shield, Black GSWH - Glare shield, White
	12" - 144" 2" increments	HE48LO - Low HE48SO - Standard HE48MO - Medium HE48HO - High HE64VHO - Very High	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K						

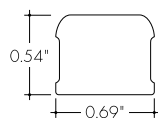
1 - Custom lengths and increments are available, please consult Inside Sales with specific request.

2 - All High Efficacy options can be used to comply with Title 24 JA8. High Color Quality options can be used to comply with Title 24 JA8 depending on Output, CCT, and Lens selections, see multiplier charts to calculate specific efficacies.

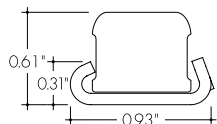
3 - Non SA finishes may have extended lead times. Custom RALs are available, please consult Inside Sales with specific request.

4 - Polished Gold finishes have a maximum fixture length of 48", and Chrome finishes have a maximum fixture length of 72".

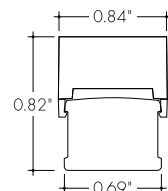
Product Dimensions



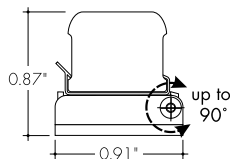
Narrow Beam
Grazer Lens



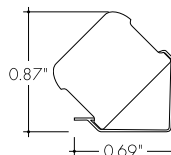
Narrow Beam Grazer Lens using
the Exterior Fixed Clip



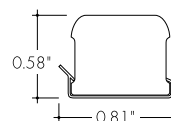
Narrow Beam Grazer Lens with Blade
Louver or Glare Shield Accessory



Narrow Beam Grazer Lens with
Adjustable Hinged Bracket



Narrow Beam Grazer Lens with
45° Mounting Bracket

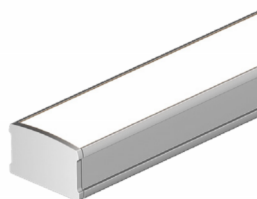


Narrow Beam Grazer Lens with
Fixed Mounting Bracket

Finish Options

- Finish options are available in a wide variety, allowing for complete customization of style and aesthetic.
- Non Silver Anodized finishes may have extended lead times.
- Polished Gold finishes have a maximum fixture length of 48", and Chrome finishes have a maximum fixture length of 72".
- Custom RALs are available, please consult Inside Sales with specific request.

Silver Anodized



Silver Anodized is a soft silver with a clear finish.

Black



Black is a true deep black with a glossy finish.

Bronze



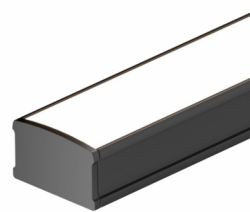
Bronze is a rich, dark brown with a satin finish.

White



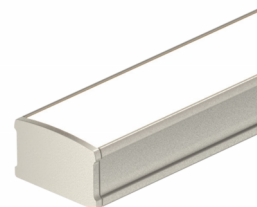
White is a polar bright white and field paintable.

Matte Black



Matte Black is a dark, pitch-black with a soft flat finish.

Warm Nickel



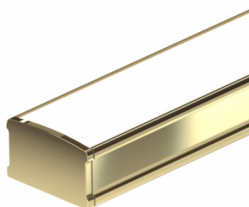
Warm Nickel is a soft, silvery smoke with warm tones and a satin finish.

Aged Brass



Aged Brass is a deep brown shade with slightly golden undertones.

Polished Gold



Polished Gold is bright and radiant for a brilliant finish.

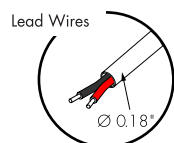
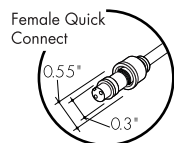
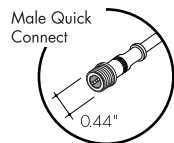
Chrome



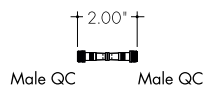
Chrome is a highly reflective silver polish.

Powerfeeds and Connectors

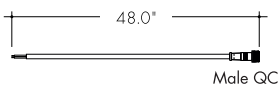
Linking and Extension Cable Options



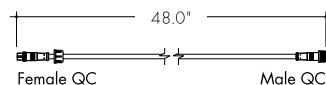
WET-FMA-2-2
Female to Male Adapter, 2 pin



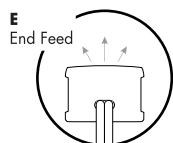
WET-CON-LEAD-M-2-48
Male Wet Connector Cable, 2 pin, 48"



WET-CON-JC-F-M-2-48
Female/Male Wet Jumper Cable, 2 pin, 48"



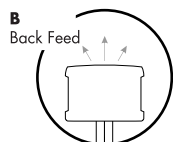
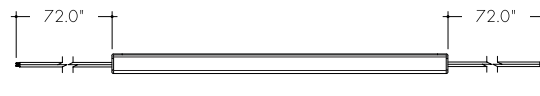
Powerfeeds Position/Type



1
72" wire leads



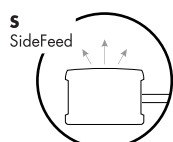
1X2
72" wire leads at both ends



2
72" wire leads at one end and Female Quick Connect at other



3
Single Female Quick Connect

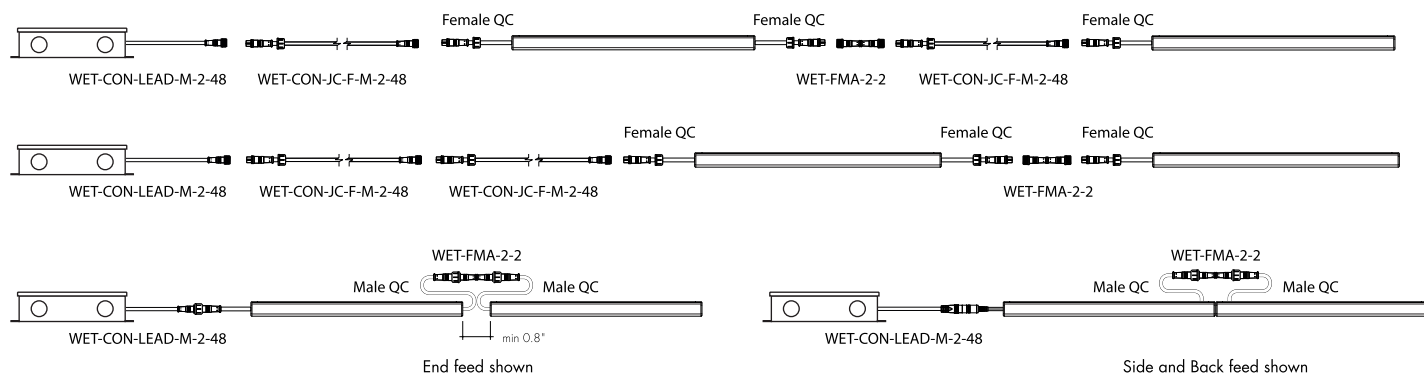


4
Female Quick Connect at both ends



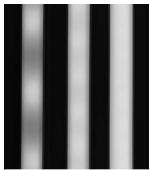
Side and Back feeds shown as dashed lines
All wires are 18 AWG unless otherwise specified

Sample Layout



Light Transmission and Dotting

Output Options	Lens/Accessory		
	Narrow Beam Grazer Lens	Grazer Lens, White Glare Shield	Grazer Lens, White Blade Louver
72SO	CD	CD	CD
72HO	CD	CD	CD
72VHO	CD	CD	CD
HE48LO	CD	CD	CD
HE48SO	CD	CD	CD
HE48MO	CD	CD	CD
HE48HO	CD	CD	CD
HE64VHO	CD	CD	CD
Transmission Percentage	100%	72%	54%

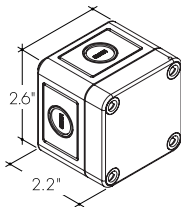


CD SD ND

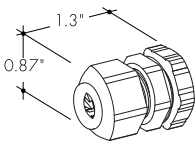
CD - Clear Dotting
SD - Slight Dotting
ND - No Dotting

Accessory Options

LVSP-WET
Splice box: wet rated, low voltage, gray



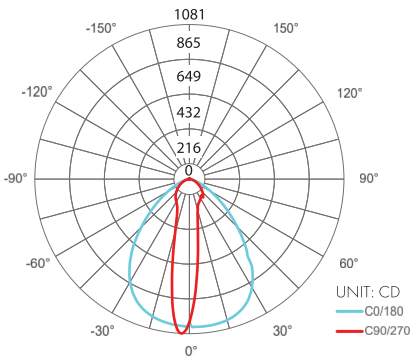
LVSP-WET-CM
Connector for splice box, low voltage for cable management, gray.



Photometry

KMW-48-72VHO-30K-GR

Kendo RM Wet, 4ft, 3000K, VHO, Narrow Beam Grazer Lens



Zonal Lumen Summary 3000K		
Zone	Lumen	% Fixture
0-30	467	41.7%
0-40	666	59.5%
0-60	971	86.8%
0-90	1104	98.7%
Total 0-180	1118	100.0%

Beam Angle
19°

Power Consumption

Tested at Full Power with PDC Series power supplies.

Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please contact factory with specific request.

High Color Quality (72)

Nominal Length (in)	Back, Side, and End Feed Actual Length	Watts			Nominal Length (in)	Back, Side, and End Feed Actual Length	Watts			Nominal Length (in)	Back, Side, and End Feed Actual Length	Watts			Nominal Length (in)	Back, Side, and End Feed Actual Length	Watts		
		SO	HO	VHO			SO	HO	VHO			SO	HO	VHO			SO	HO	VHO
12	11 5/16	2.7	4.4	6.2	47	46 1/16	10.2	17.1	22.6	82	81 15/16	18.3	29.5	38.4	117	116 11/16	25.9	40.8	52.4
13	12 7/16	2.7	4.4	6.2	48	47 3/16	10.5	17.4	23.1	83	—	—	—	—	118	117 13/16	26.1	41.1	52.8
14	13 10/16	2.9	4.8	6.7	49	48 6/16	10.7	17.8	23.5	84	83 1/16	18.5	29.8	38.8	119	119	26.3	41.4	53.2
15	14 12/16	3.1	5.2	7.3	50	49 8/16	11.1	18.6	24.4	85	84 4/16	18.7	30.1	39.2	120	—	—	—	—
16	15 15/16	3.4	5.6	7.8	51	50 11/16	11.4	18.9	24.9	86	85 6/16	19.2	30.8	40.0	121	120 2/16	26.5	41.7	53.6
17	—	—	—	—	52	51 13/16	11.6	19.3	25.3	87	86 9/16	19.4	31.1	40.4	122	121 5/16	26.7	42.0	54.0
18	17 1/16	3.6	6.0	8.3	53	53	11.9	19.7	25.7	88	87 12/16	19.6	31.5	40.8	123	122 7/16	27.1	42.6	54.7
19	18 4/16	3.9	6.5	8.9	54	—	—	—	—	89	88 14/16	19.9	31.8	41.1	124	123 10/16	27.3	42.9	55.0
20	19 6/16	4.4	7.3	9.9	55	54 2/16	12.1	20.1	26.1	90	—	—	—	—	125	124 12/16	27.5	43.1	55.4
21	20 9/16	4.6	7.7	10.5	56	55 5/16	12.3	20.5	26.6	91	90 1/16	20.1	32.2	41.5	126	125 15/16	27.7	43.4	55.7
22	21 11/16	4.8	8.1	11.0	57	56 7/16	12.8	21.3	27.4	92	91 3/16	20.4	32.5	41.9	127	—	—	—	—
23	22 14/16	5.1	8.6	11.5	58	57 10/16	13.1	21.6	27.8	93	92 6/16	20.6	32.9	42.3	128	127 1/16	27.9	43.7	56.1
24	—	—	—	—	59	58 12/16	13.3	22.0	28.3	94	93 8/16	21.1	33.6	43.1	129	128 4/16	28.1	43.9	56.4
25	24 1/16	5.3	9.0	12.1	60	59 15/16	13.6	22.4	28.7	95	94 11/16	21.3	33.9	43.4	130	129 7/16	28.5	44.5	57.1
26	25 3/16	5.6	9.4	12.6	61	—	—	—	—	96	95 13/16	21.5	34.2	43.8	131	130 9/16	28.7	44.7	57.4
27	26 6/16	5.8	9.8	13.1	62	61 1/16	13.8	22.8	29.1	97	97	21.8	34.6	44.2	132	131 12/16	28.9	45.0	57.8
28	27 8/16	6.2	10.5	14.1	63	62 4/16	14.0	23.1	29.6	98	—	—	—	—	133	132 14/16	29.1	45.3	58.1
29	28 11/16	6.5	10.9	14.5	64	63 6/16	14.5	23.8	30.5	99	98 2/16	22.0	34.9	44.6	134	—	—	—	—
30	29 13/16	6.7	11.2	15.0	65	64 9/16	14.7	24.1	31.0	100	99 5/16	22.2	35.2	45.0	135	134 1/16	29.3	45.5	58.4
31	31	6.9	11.6	15.5	66	65 12/16	14.9	24.4	31.4	101	100 7/16	22.5	35.9	45.9	136	135 3/16	29.5	45.7	58.7
32	—	—	—	—	67	66 14/16	15.1	24.7	31.9	102	101 10/16	22.7	36.2	46.3	137	136 6/16	29.6	45.9	59.1
33	32 2/16	7.1	12.0	16.0	68	—	—	—	—	103	102 12/16	22.9	36.5	46.7	138	137 8/16	30.0	46.3	59.7
34	33 5/16	7.3	12.3	16.5	69	68 1/16	15.3	25.0	32.4	104	103 15/16	23.1	36.8	47.1	139	138 11/16	30.2	46.5	60.0
35	34 7/16	7.8	13.1	17.4	70	69 3/16	15.5	25.4	32.8	105	—	—	—	—	140	139 13/16	30.3	46.8	60.3
36	35 10/16	8.0	13.4	17.9	71	70 6/16	15.8	25.7	33.3	106	105 1/16	23.3	37.1	47.5	141	141	30.5	47.0	60.6
37	36 12/16	8.2	13.8	18.4	72	71 8/16	16.2	26.3	34.2	107	106 4/16	23.5	37.4	48.0	142	—	—	—	—
38	37 15/16	8.4	14.2	18.9	73	72 11/16	16.4	26.6	34.7	108	107 6/16	23.9	38.1	48.8	143	142 2/16	30.7	47.2	61.0
39	—	—	—	—	74	73 13/16	16.6	26.9	35.1	109	108 9/16	24.1	38.4	49.2	144	143 5/16	30.8	47.4	61.3
40	39 1/16	8.7	14.5	19.3	75	75	16.8	27.3	35.5	110	109 12/16	24.3	38.7	49.6					
41	40 4/16	8.9	14.9	19.8	76	—	—	—	—	111	110 14/16	24.5	39.0	50.0					
42	41 6/16	9.3	15.6	20.7	77	76 2/16	17.1	27.6	35.9	112	—	—	—	—					
43	42 9/16	9.6	16.0	21.2	78	77 5/16	17.3	27.9	36.3	113	112 1/16	24.8	39.3	50.4					
44	43 12/16	9.8	16.4	21.7	79	78 7/16	17.7	28.5	37.2	114	113 3/16	25.0	39.6	50.8					
45	44 14/16	10.0	16.7	22.1	80	79 10/16	17.9	28.9	37.6	115	114 6/16	25.2	39.9	51.2					
46	—	—	—	—	81	80 12/16	18.1	29.2	38.0	116	115 8/16	25.6	40.5	52.0					

Power Consumption

Tested at Full Power with PDC Series power supplies.

Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please contact factory with specific request.

High Efficacy (HE48)

Nominal Length (in)	Back, Side, and End Feed Actual Length	Watts				Nominal Length (in)	Back, Side, and End Feed Actual Length	Watts				Nominal Length (in)	Back, Side, and End Feed Actual Length	Watts				Nominal Length (in)	Back, Side, and End Feed Actual Length	Watts			
		LO	SO	MO	HO			LO	SO	MO	HO			LO	SO	MO	HO			LO	SO	MO	HO
12	10 11/16	1.7	2.5	3.5	5.7	47	46 2/16	6.9	10.7	13.3	24.7	82	81 9/16	12.5	19.9	23.9	42.2	117	—	—	—	—	
13	12 11/16	1.7	2.5	3.5	5.7	48	—	—	—	—	—	83	—	—	—	—	—	118	117	17.5	27.7	34.3	58.7
14	—	—	—	—	—	49	48 2/16	7.1	11.2	13.9	25.4	84	83 9/16	12.8	20.3	24.5	43.1	119	119	17.8	28.1	34.9	59.6
15	14 10/16	2.0	3.0	4.0	7.2	50	—	—	—	—	—	85	—	—	—	—	—	120	—	—	—	—	
16	—	—	—	—	—	51	50 1/16	7.4	11.7	14.5	26.3	86	85 8/16	13.1	20.8	25.1	44.1	121	120 15/16	18.1	28.6	35.5	60.5
17	16 10/16	2.4	3.5	4.6	8.7	52	—	—	—	—	—	87	—	—	—	—	—	122	—	—	—	—	
18	—	—	—	—	—	53	52 1/16	7.7	12.3	15.1	27.4	88	87 8/16	13.4	21.3	25.7	45.0	123	122 15/16	18.3	29.0	36.0	62.1
19	18 9/16	2.7	3.9	5.2	10.2	54	—	—	—	—	—	89	—	—	—	—	—	124	—	—	—	—	
20	—	—	—	—	—	55	54	8.0	12.9	15.7	28.5	90	89 7/16	13.7	21.7	26.3	46.0	125	124 14/16	18.4	29.5	36.6	63.8
21	20 9/16	3.0	4.4	5.8	11.7	56	56	8.4	13.5	16.4	29.5	91	—	—	—	—	—	126	—	—	—	—	
22	—	—	—	—	—	57	—	—	—	—	—	92	91 7/16	14.0	22.1	26.9	47.0	127	126 14/16	18.6	29.9	37.2	65.4
23	22 8/16	3.4	4.9	6.4	13.2	58	57 15/16	8.7	14.0	17.0	30.6	93	—	—	—	—	—	128	—	—	—	—	
24	—	—	—	—	—	59	—	—	—	—	—	94	93 6/16	14.3	22.6	27.5	47.9	129	128 13/16	18.8	30.4	37.7	67.0
25	24 8/16	3.7	5.4	7.0	14.7	60	59 15/16	9.0	14.6	17.6	31.6	95	—	—	—	—	—	130	—	—	—	—	
26	—	—	—	—	—	61	—	—	—	—	—	96	95 6/16	14.4	22.8	27.8	48.4	131	130 13/16	18.9	30.8	38.3	68.6
27	26 7/16	4.1	5.9	7.5	15.8	62	61 14/16	9.4	15.2	18.2	32.6	97	—	—	—	—	—	132	—	—	—	—	
28	—	—	—	—	—	63	—	—	—	—	—	98	97 5/16	14.7	23.3	28.5	49.4	133	132 12/16	19.1	31.2	38.9	70.2
29	28 7/16	4.4	6.4	8.1	16.8	64	63 14/16	9.7	15.6	18.7	33.7	99	—	—	—	—	—	134	—	—	—	—	
30	—	—	—	—	—	65	—	—	—	—	—	100	99 5/16	15.0	23.7	29.0	50.4	135	134 12/16	19.3	31.8	39.4	70.7
31	30 6/16	4.8	6.9	8.7	17.9	66	65 13/16	10.0	16.1	19.2	34.7	101	—	—	—	—	—	136	—	—	—	—	
32	—	—	—	—	—	67	—	—	—	—	—	102	101 4/16	15.3	24.1	29.6	51.3	137	136 11/16	19.5	32.3	40.0	71.2
33	32 6/16	5.0	7.2	9.0	18.5	68	67 13/16	10.4	16.5	19.8	35.7	103	—	—	—	—	—	138	—	—	—	—	
34	—	—	—	—	—	69	—	—	—	—	—	104	103 4/16	15.6	24.6	30.2	52.3	139	138 11/16	19.8	32.8	40.6	71.8
35	34 5/16	5.4	7.7	9.6	19.5	70	69 12/16	10.7	17.0	20.3	36.7	105	—	—	—	—	—	140	—	—	—	—	
36	—	—	—	—	—	71	—	—	—	—	—	106	105 3/16	15.8	25.0	30.7	53.2	141	140 10/16	20.0	33.3	41.1	72.3
37	36 5/16	5.7	8.2	10.2	20.6	72	71 12/16	11.0	17.4	20.8	37.7	107	—	—	—	—	—	142	—	—	—	—	
38	—	—	—	—	—	73	—	—	—	—	—	108	107 3/16	16.1	25.5	31.3	54.2	143	142 10/16	20.2	33.9	41.7	72.8
39	38 4/16	6.0	8.7	10.8	21.5	74	73 11/16	11.3	17.9	21.4	38.7	109	—	—	—	—	—	144	—	—	—	—	
40	—	—	—	—	—	75	—	—	—	—	—	110	109 2/16	16.4	25.9	31.9	55.2						
41	40 4/16	6.2	9.2	11.4	22.3	76	75 11/16	11.6	18.4	22.0	39.6	111	—	—	—	—	—						
42	—	—	—	—	—	77	—	—	—	—	—	112	111 2/16	16.7	26.4	32.5	56.1						
43	42 3/16	6.4	9.7	12.0	23.1	78	77 10/16	11.9	18.9	22.7	40.5	113	—	—	—	—	—						
44	—	—	—	—	—	79	—	—	—	—	—	114	113 1/16	17.0	26.8	33.1	57.0						
45	44 3/16	6.7	10.2	12.6	23.9	80	79 10/16	12.2	19.4	23.3	41.4	115	—	—	—	—	—						
46	—	—	—	—	—	81	—	—	—	—	—	116	115 1/16	17.3	27.3	33.7	57.9						

Power Consumption

Tested at Full Power with PDC Series power supplies.

Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please contact factory with specific request.

High Efficacy (HE64)

Nominal Length (in)	Back, Side, and End Feed Actual Length	Watts		Nominal Length (in)	Back, Side, and End Feed Actual Length	Watts		Nominal Length (in)	Back, Side, and End Feed Actual Length	Watts		Nominal Length (in)	Back, Side, and End Feed Actual Length	Watts	
		VHO	XHO			VHO	XHO			VHO	XHO			VHO	XHO
12	11 8/16	7.6	9.7	47	46 5/16	28.2	35.9	82	81 2/16	50.4	62.6	117	—	—	—
13	13	7.6	9.7	48	47 13/16	29.5	37.6	83	82 10/16	51.7	63.4	118	117 8/16	72.8	80.7
14	—	—	—	49	—	—	—	84	—	—	—	119	119	73.3	81.0
15	14 8/16	8.9	11.3	50	49 5/16	30.1	38.4	85	84 3/16	52.3	63.8	120	—	—	—
16	—	—	—	51	50 14/16	31.4	40.2	86	85 11/16	53.6	64.7	121	120 8/16	74.4	81.7
17	16	9.5	12.1	52	—	—	—	87	—	—	—	122	—	—	—
18	17 9/16	10.7	13.6	53	52 6/16	32.0	41.1	88	87 3/16	54.2	65.3	123	122	74.8	82.0
19	—	—	—	54	53 14/16	33.3	42.9	89	88 11/16	55.5	66.3	124	123 8/16	75.6	82.5
20	19 1/16	11.4	14.4	55	—	—	—	90	—	—	—	125	—	—	—
21	20 9/16	12.6	16.0	56	55 6/16	34.0	43.8	91	90 3/16	56.2	66.8	126	125 1/16	76.0	82.8
22	—	—	—	57	56 14/16	35.2	45.5	92	91 12/16	57.5	67.9	127	126 9/16	76.8	83.4
23	22 1/16	13.2	16.8	58	—	—	—	93	—	—	—	128	—	—	—
24	23 9/16	14.5	18.3	59	58 7/16	36.5	47.3	94	93 4/16	58.2	68.4	129	128 1/16	77.2	83.6
25	—	—	—	60	59 15/16	37.2	48.2	95	94 12/16	59.5	69.5	130	129 9/16	78.0	84.2
26	25 2/16	15.1	19.1	61	—	—	—	96	—	—	—	131	—	—	—
27	26 10/16	16.4	20.7	62	61 7/16	38.4	50.0	97	96 4/16	60.1	70.0	132	131 2/16	78.4	84.5
28	—	—	—	63	62 15/16	39.1	50.8	98	97 13/16	61.4	71.1	133	132 10/16	79.2	85.0
29	28 2/16	17.0	21.4	64	—	—	—	99	—	—	—	134	—	—	—
30	29 10/16	18.2	23.0	65	64 8/16	40.4	52.5	100	99 5/16	62.0	71.7	135	134 2/16	79.6	85.4
31	—	—	—	66	66	41.0	53.4	101	100 13/16	63.2	72.9	136	135 10/16	80.3	86.2
32	31 3/16	18.9	23.8	67	—	—	—	102	—	—	—	137	—	—	—
33	32 11/16	20.1	25.3	68	67 8/16	42.3	55.1	103	102 5/16	63.8	73.5	138	137 2/16	80.6	86.6
34	—	—	—	69	—	—	—	104	103 13/16	65.0	74.7	139	138 11/16	81.3	87.5
35	34 3/16	20.7	26.1	70	69	42.9	55.9	105	—	—	—	140	—	—	—
36	35 11/16	22.0	27.6	71	70 8/16	44.2	57.6	106	105 6/16	65.6	75.3	141	140 3/16	81.7	87.9
37	—	—	—	72	—	—	—	107	106 14/16	66.8	76.5	142	141 11/16	82.4	88.7
38	37 3/16	22.6	28.4	73	72 1/16	44.9	58.5	108	—	—	—	143	—	—	—
39	38 12/16	23.9	30.1	74	73 9/16	46.1	59.7	109	108 6/16	67.4	77.1	144	143 3/16	82.7	89.1
40	—	—	—	75	—	—	—	110	109 14/16	68.5	78.0				
41	40 4/16	24.5	30.9	76	75 1/16	46.7	60.1	111	—	—	—				
42	41 12/16	25.7	32.6	77	76 9/16	48.0	60.9	112	111 7/16	69.6	78.7				
43	—	—	—	78	—	—	—	113	112 15/16	70.1	79.0				
44	43 4/16	26.4	33.4	79	78 2/16	48.6	61.3	114	—	—	—				
45	44 13/16	27.6	35.1	80	79 10/16	49.8	62.2	115	114 7/16	71.2	79.7				
46	—	—	—	81	—	—	—	116	115 15/16	71.7	80.0				

Voltage Drop Calculator

The below chart assumes nominal voltage of 24 Volts and a Voltage Drop Allowance of 3% through the wire

Wattage [W]	Wire Length From Power Supply to Start of Run [ft]						
	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	136.9	86.1	54.1	34.0	21.4	13.5
30	181.4	114.1	71.7	45.1	28.4	17.8	11.2
35	155.5	97.8	61.5	38.7	24.3	15.3	9.6
40	136.0	85.5	53.8	33.8	21.3	13.4	8.4
45	120.9	76.0	47.8	30.1	18.9	11.9	7.5
50	108.8	68.4	43.0	27.1	17.0	10.7	6.7
55	98.9	62.2	39.1	24.6	15.5	9.7	6.1
60	90.7	57.0	35.9	22.6	14.2	8.9	5.6
65	83.7	52.6	33.1	20.8	13.1	8.2	5.2
70	77.7	48.9	30.7	19.3	12.2	7.6	4.8
75	72.5	45.6	28.7	18.0	11.3	7.1	4.5
80	68.0	42.8	26.9	16.9	10.6	6.7	4.2
85	64.0	40.3	25.3	15.9	10.0	6.3	4.0
90	60.5	38.0	23.9	15.0	9.5	5.9	3.7
96	56.7	35.6	22.4	14.1	8.9	5.6	3.5

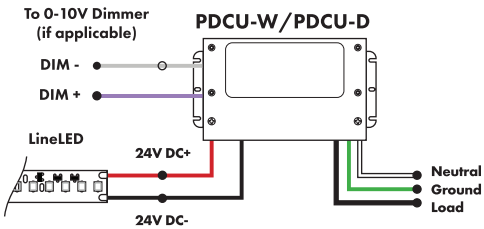
Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Universal Power Supply 1% 120VAC - 277VAC

MODEL	POWER	OUTPUT
PDCU-D - IP20 Dry Series	30 - 30 W 60 - 60 W 96 - 96 W 3X96 - 3X96 W	24 - 24 VDC
PDCU-W - IP66 Wet Series	96 - 96 W 3X96 - 3X96 W	

0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%.
For a complete list of compatible dimmers, see [Compatible Dimming Chart](#) on the Resources page.

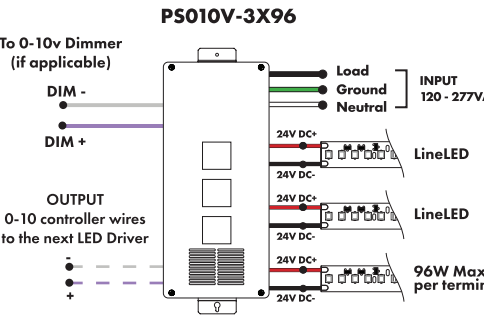
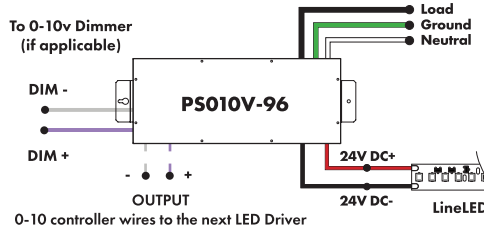


MODELS	PDCU-W 96W	PDCU-W 3X96W	PDCU-D 30W	PDCU-D 60W	PDCU-D 96W	PDCU-D 3X96W
Length	8.66"	11.85"	6.10"	7.93"	8.25"	9.57"
Width	3.73"	4.32"	3.35"	3.35"	4.10"	5.94"
Depth	1.61"	1.81"	1.33"	1.32"	1.56"	1.13"

0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING
PS010V - 0-10V Power Supply dims down to 0.1%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC	LIN - Linear LOG - Logarithmic

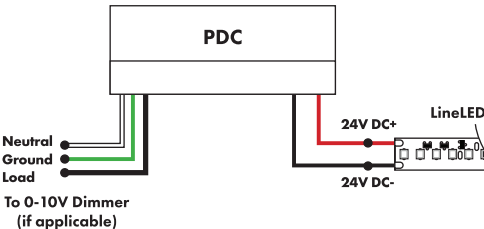
MODELS	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"



Triac, MLV, & ELV Compatible Dimmers

MODEL	POWER	OUTPUT
PDC - (IP20) Power Supply	96 - 96 Watts	24 - 24 VDC

MODELS	96W
Length	8.25"
Width	4.10"
Depth	1.56"



Power Supplies

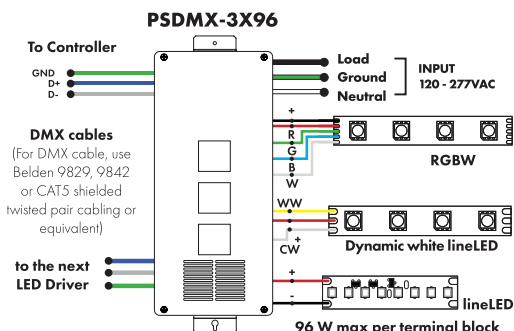
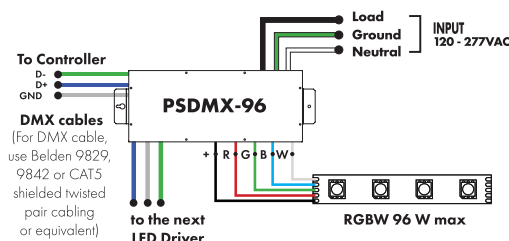
See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

DMX Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDMX - DMX Power Supply dims down to 0%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers

MODELS	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"

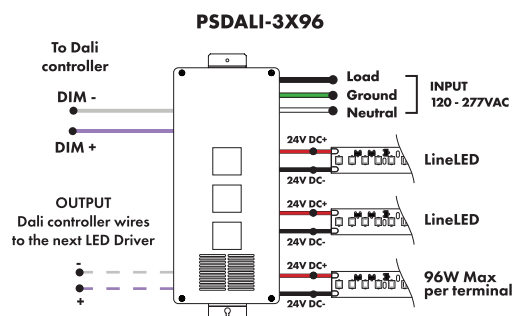
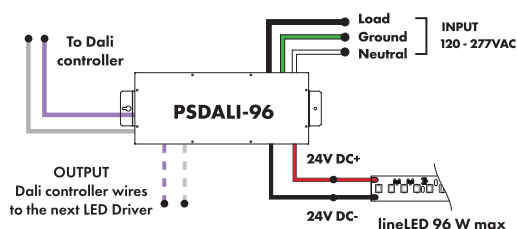


DALI 0% Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDALI - DALI Power Supply dims down to 0%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers

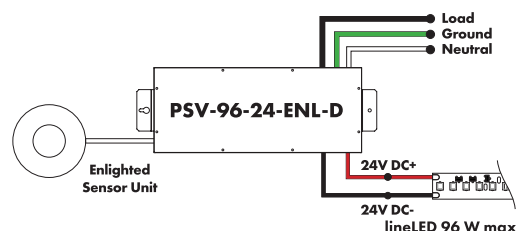
Model	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"



Enlightened Enabled Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ENL - Enlighted Dimming dims down to 0%	D - Damp

Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"



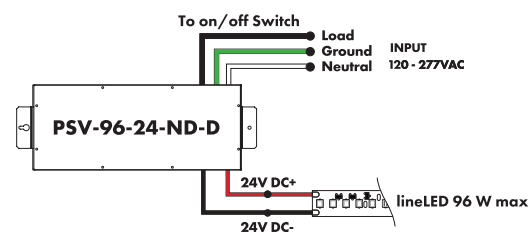
Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Non-Dimming Power Supply 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ND - Non Dimming	D - Damp

MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"



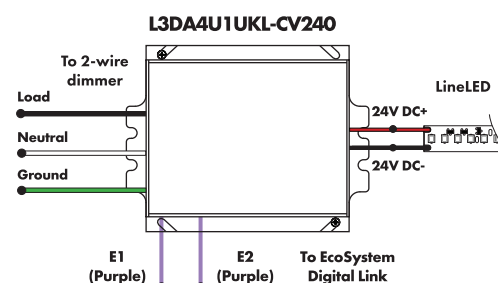
Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 1%

MODEL
L3DA4U1UKL-CV240

HiLume™ 1% EcoSystem Voltage LED driver
40W max

MODELS	L3DA4U1UKL-CV240
Length	4.98"
Width	4.00"
Depth	2.62"



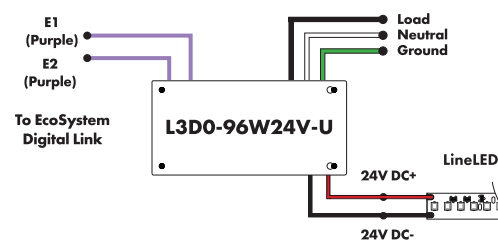
Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 0.1%

MODEL
L3D0-96W24V-U

HiLume™ 0.1% EcoSystem Voltage LED Driver with Soft-On, Fade-to-Black™
96W max

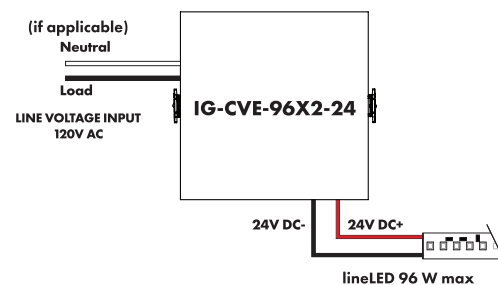
MODELS	L3D0
Length	10.50"
Width	5.50"
Depth	2.00"



In-Ground Power Supplies

MODEL	POWER	OUTPUT	INPUT
IG - In ground CVE Series	CVE - ELV Dimming DALI - eldoLED Dali dimming Both dims down to 0%	96X2 - 2 X 96 Watt	24 - 24 VDC
			Blank - 120 V 277 - 240/277 V

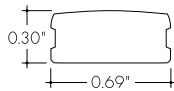
MODELS	Dual Circuit
Length	8.40"
Width	8.30"
Depth	8.10"



Features



- 24VDC Class 2 and IP68 rated for wet locations, fixtures made to order up to 144". Fixtures can be linked up to 48' depending on output
- Suitable for undercabinet, millwork, surface mount, direct view, cove, curtain pocket, toe-kick, stair tread, architectural reveals, handrail, wet, outdoor, and accent lighting
- Dot free even illumination with frosted lens
- High Color Quality options offer premium quality and vibrant colors with R9 values up to 97
- High Efficacy options offer best in class output and efficacy with over 600 lm/ft and up to 80 lm/W
- Proprietary strong bond solder method handles up to 50 lbs of pull force on wire leads and connectors
- 3 Year warranty



Finish Options (see page 2 for additional information)

 Silver Anodized	 White	 Aged Brass
 Black	 Matte Black	 Polished Gold
 Bronze	 Warm Nickel	 Chrome



Technical Information

MODEL	High Color Quality			High Efficacy				High Efficacy
OUTPUT OPTIONS	72SO	72HO	72VHO	HE48LO	HE48SO	HE48MO	HE48HO	HE64VHO
Lumens Output (3000K) (with a Clear Lens)	164 lm/ft	267 lm/ft	325 lm/ft	160 lm/ft	222 lm/ft	296 lm/ft	475 lm/ft	601 lm/ft
Average Power Consumption (for a 4' section)	2.8 W/ft	4.8 W/ft	6 W/ft	1.9 W/ft	2.8 W/ft	3.5 W/ft	6.5 W/ft	7.5 W/ft
Efficacy	59 lm/W	56 lm/W	54 lm/W	84 lm/W	79 lm/W	85 lm/W	73 lm/W	80 lm/W
Max Run Length (in series)	40 ft	31 ft	22 ft	48 ft	42 ft	33 ft	21 ft	15 ft
Max Ambient Temperature*	50°C [122°F]	45°C [113°F]	35°C [97°F]	50°C [122°F]			30°C [90°F]	25°C [75°F]

*Max Ambient Temperature to maintain L70 of 50k+ hours. Exceeding Max Ambient Temperature may result in decreased life/output. Consult Technical Support for specific inquiries.

High Color Quality (72)

CCT	Multiplier (reference - 3000K)	CRI	TM-30		
			R _f	R _g	R ₉
2700K	0.97	97	96	99	93
3000K	1.00	96	95	99	92
3500K	1.01	96	95	100	94
4100K	1.34	97	96	102	92

High Efficacy (HE48/HE64)

CCT	Multiplier (reference - 3000K)	CRI	TM-30		
			R _f	R _g	R ₉
2700K	0.94	92	90	99	46
3000K	1.00	92	89	99	62
3500K	1.02	92	89	99	58
4000K	1.02	92	86	94	52

Ordering Code

MODEL	LENGTH ¹	OUTPUT	CCT	LENS ²	MOUNTING	FINISH ³	POSITION	POWER FEED	ACCESSORIES
KSW - Kendo S Wet	12" - 144" 1" increments	72SO - Standard 72HO - High 72VHO - Very High	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	C - Clear Lens F - Frosted	FC Fixed Clip A Adjustable Hinge Mounting FC45 Fixed Clip, 45°	SA - Silver Anodized BK - Black BZ - Bronze WH - White MBK - Matte Black WN - Warm Nickel AB - Aged Brass PG - Polished Gold ⁴ CH - Chrome ⁴	E - End B - Back	1 - 72" wire leads 1X2 - 72" wire leads at both ends 2 - 72" wire leads at one end and Quick Connect at other 3 - Single Quick Connect 4 - Quick Connect at both ends	BLS - Blade louver, Silver BLBK - Blade louver, Black BLWH - Blade louver, White GSS - Glare shield, Silver GSBK - Glare shield, Black GSWH - Glare shield, White
	12" - 144" 2" increments	HE48LO - Low HE48SO - Standard HE48MO - Medium HE48HO - High HE64VHO - Very High	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K						

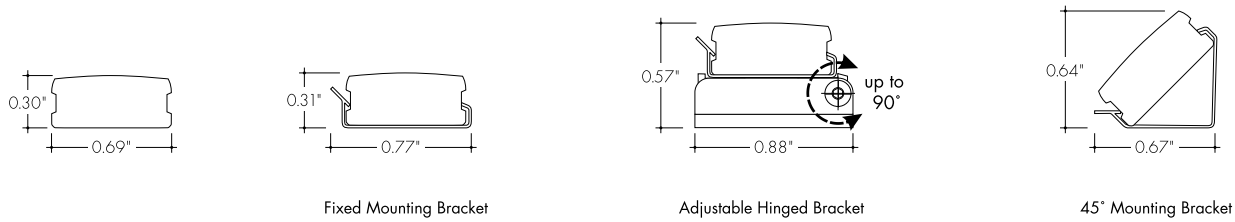
1 - Custom lengths and increments are available, please consult Inside Sales with specific request.

2 - All High Efficacy options can be used to comply with Title 24 JA8. High Color Quality options can be used to comply with Title 24 JA8 depending on Output, CCT, and lens selections, see multiplier charts to calculate specific efficacies.

3 - Non SA finishes may have extended lead times. Custom RALs are available, please consult Inside Sales with specific request.










4 - Polished Gold finishes have a maximum fixture length of 48", and Chrome finishes have a maximum fixture length of 72".

Product Dimensions



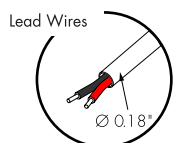
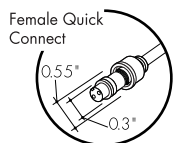
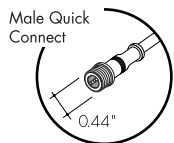
Finish Options

- Finish options are available in a wide variety, allowing for complete customization of style and aesthetic.
- Non Silver Anodized finishes may have extended lead times.
- Polished Gold finishes have a maximum fixture length of 48", and Chrome finishes have a maximum fixture length of 72".
- Custom RALs are available, please consult Inside Sales with specific request.

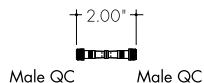
Silver Anodized	Black	Bronze	White	Matte Black
				
Silver Anodized is a soft silver with a clear finish.	Black is a true deep black with a glossy finish.	Bronze is a rich, dark brown with a satin finish.	White is a polar bright white and field paintable.	Matte Black is a dark, pitch-black with a soft flat finish.
Warm Nickel	Aged Brass	Polished Gold	Chrome	
				
Warm Nickel is a soft, silvery smoke with warm tones and a satin finish.	Aged Brass is a deep brown shade with slightly golden undertones.	Polished Gold is bright and radiant for a brilliant finish.	Chrome is a highly reflective silver polish.	

Powerfeeds and Connectors

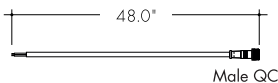
Linking and Extension Cable Options



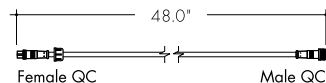
WET-FMA-2-2
Female to Male Adapter, 2 pin



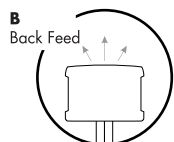
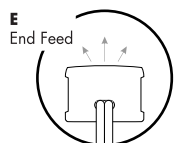
WET-CON-LEAD-M-2-48
Male Wet Connector Cable, 2 pin, 48"



WET-CON-JC-F-M-2-48
Female/Male Wet Jumper Cable, 2 pin, 48"



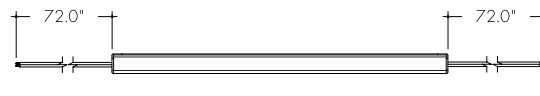
Powerfeeds Position/Type



1
72" wire leads



1X2
72" wire leads at both ends



2
72" wire leads at one end and Female Quick Connect at other



3
Single Female Quick Connect

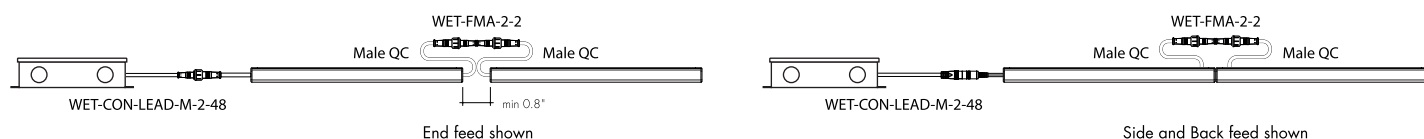
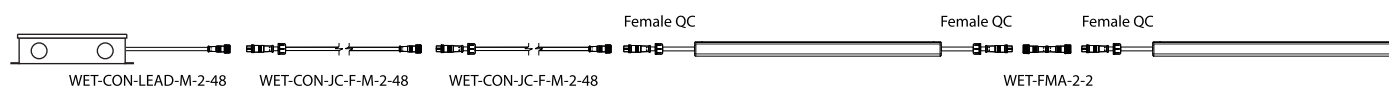


4
Female Quick Connect at both ends



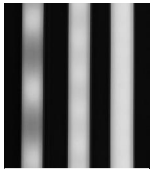
Side and Back feeds shown as dashed lines
All wires are 18 AWG unless otherwise specified

Sample Layout



Light Transmission and Dotting

Output Options	Lens/Accessory	
	Clear	Frosted
72SO	CD	ND
72HO	CD	ND
72VHO	CD	ND
HE48LO	CD	ND
HE48SO	CD	ND
HE48MO	CD	ND
HE48HO	CD	ND
HE64VHO	CD	ND
Transmission Percentage	100%	55%

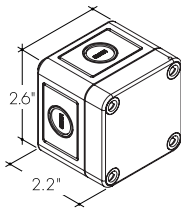


CD SD ND

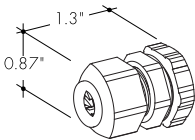
CD - Clear Dotting
SD - Slight Dotting
ND - No Dotting

Accessory Options

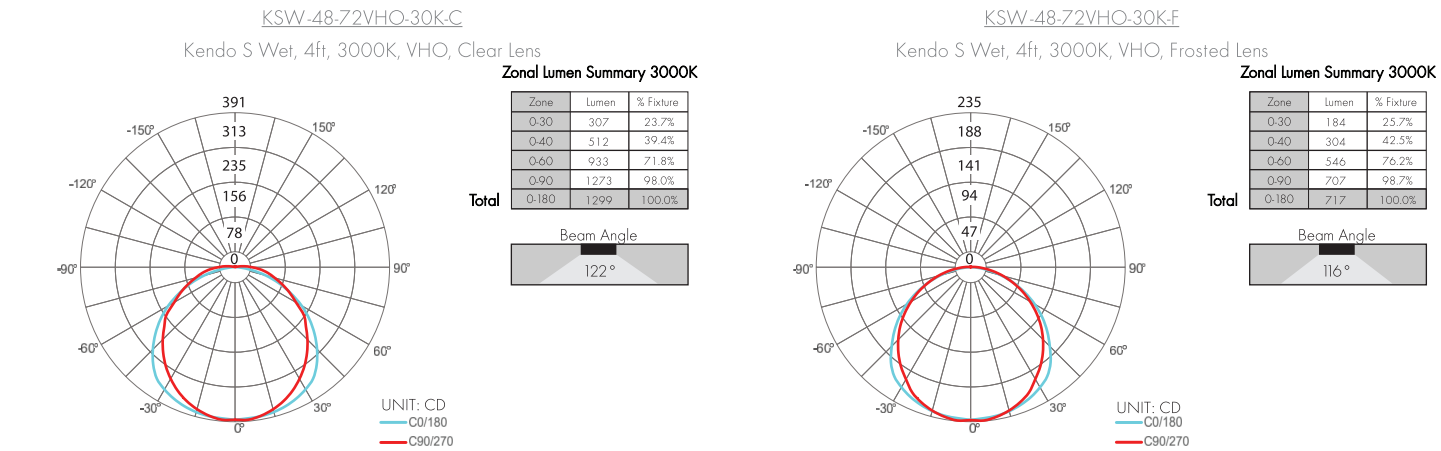
LVSP-WET
Splice box: wet rated, low voltage, gray



LVSP-WET-CM
Connector for splice box, low voltage for cable management, gray.



Photometry



Power Consumption

Tested at Full Power with PDC Series power supplies.

Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please contact factory with specific request.

High Color Quality (72)

Nominal Length (in)	Back and End Feed Actual Length	Watts			Nominal Length (in)	Back and End Feed Actual Length	Watts			Nominal Length (in)	Back and End Feed Actual Length	Watts			Nominal Length (in)	Back and End Feed Actual Length	Watts		
		SO	HO	VHO			SO	HO	VHO			SO	HO	VHO			SO	HO	VHO
12	11 5/16	2.7	4.4	6.2	47	46 1/16	10.2	17.1	22.6	82	81 15/16	18.3	29.5	38.4	117	116 11/16	25.9	40.8	52.4
13	12 7/16	2.7	4.4	6.2	48	47 3/16	10.5	17.4	23.1	83	—	—	—	—	118	117 13/16	26.1	41.1	52.8
14	13 10/16	2.9	4.8	6.7	49	48 6/16	10.7	17.8	23.5	84	83 1/16	18.5	29.8	38.8	119	119	26.3	41.4	53.2
15	14 12/16	3.1	5.2	7.3	50	49 8/16	11.1	18.6	24.4	85	84 4/16	18.7	30.1	39.2	120	—	—	—	—
16	15 15/16	3.4	5.6	7.8	51	50 11/16	11.4	18.9	24.9	86	85 6/16	19.2	30.8	40.0	121	120 2/16	26.5	41.7	53.6
17	—	—	—	—	52	51 13/16	11.6	19.3	25.3	87	86 9/16	19.4	31.1	40.4	122	121 5/16	26.7	42.0	54.0
18	17 1/16	3.6	6.0	8.3	53	53	11.9	19.7	25.7	88	87 12/16	19.6	31.5	40.8	123	122 7/16	27.1	42.6	54.7
19	18 4/16	3.9	6.5	8.9	54	—	—	—	—	89	88 14/16	19.9	31.8	41.1	124	123 10/16	27.3	42.9	55.0
20	19 6/16	4.4	7.3	9.9	55	54 2/16	12.1	20.1	26.1	90	—	—	—	—	125	124 12/16	27.5	43.1	55.4
21	20 9/16	4.6	7.7	10.5	56	55 5/16	12.3	20.5	26.6	91	90 1/16	20.1	32.2	41.5	126	125 15/16	27.7	43.4	55.7
22	21 11/16	4.8	8.1	11.0	57	56 7/16	12.8	21.3	27.4	92	91 3/16	20.4	32.5	41.9	127	—	—	—	—
23	22 14/16	5.1	8.6	11.5	58	57 10/16	13.1	21.6	27.8	93	92 6/16	20.6	32.9	42.3	128	127 1/16	27.9	43.7	56.1
24	—	—	—	—	59	58 12/16	13.3	22.0	28.3	94	93 8/16	21.1	33.6	43.1	129	128 4/16	28.1	43.9	56.4
25	24 1/16	5.3	9.0	12.1	60	59 15/16	13.6	22.4	28.7	95	94 11/16	21.3	33.9	43.4	130	129 7/16	28.5	44.5	57.1
26	25 3/16	5.6	9.4	12.6	61	—	—	—	—	96	95 13/16	21.5	34.2	43.8	131	130 9/16	28.7	44.7	57.4
27	26 6/16	5.8	9.8	13.1	62	61 1/16	13.8	22.8	29.1	97	97	21.8	34.6	44.2	132	131 12/16	28.9	45.0	57.8
28	27 8/16	6.2	10.5	14.1	63	62 4/16	14.0	23.1	29.6	98	—	—	—	—	133	132 14/16	29.1	45.3	58.1
29	28 11/16	6.5	10.9	14.5	64	63 6/16	14.5	23.8	30.5	99	98 2/16	22.0	34.9	44.6	134	—	—	—	—
30	29 13/16	6.7	11.2	15.0	65	64 9/16	14.7	24.1	31.0	100	99 5/16	22.2	35.2	45.0	135	134 1/16	29.3	45.5	58.4
31	31	6.9	11.6	15.5	66	65 12/16	14.9	24.4	31.4	101	100 7/16	22.5	35.9	45.9	136	135 3/16	29.5	45.7	58.7
32	—	—	—	—	67	66 14/16	15.1	24.7	31.9	102	101 10/16	22.7	36.2	46.3	137	136 6/16	29.6	45.9	59.1
33	32 2/16	7.1	12.0	16.0	68	—	—	—	—	103	102 12/16	22.9	36.5	46.7	138	137 8/16	30.0	46.3	59.7
34	33 5/16	7.3	12.3	16.5	69	68 1/16	15.3	25.0	32.4	104	103 15/16	23.1	36.8	47.1	139	138 11/16	30.2	46.5	60.0
35	34 7/16	7.8	13.1	17.4	70	69 3/16	15.5	25.4	32.8	105	—	—	—	—	140	139 13/16	30.3	46.8	60.3
36	35 10/16	8.0	13.4	17.9	71	70 6/16	15.8	25.7	33.3	106	105 1/16	23.3	37.1	47.5	141	141	30.5	47.0	60.6
37	36 12/16	8.2	13.8	18.4	72	71 8/16	16.2	26.3	34.2	107	106 4/16	23.5	37.4	48.0	142	—	—	—	—
38	37 15/16	8.4	14.2	18.9	73	72 11/16	16.4	26.6	34.7	108	107 6/16	23.9	38.1	48.8	143	142 2/16	30.7	47.2	61.0
39	—	—	—	—	74	73 13/16	16.6	26.9	35.1	109	108 9/16	24.1	38.4	49.2	144	143 5/16	30.8	47.4	61.3
40	39 1/16	8.7	14.5	19.3	75	75	16.8	27.3	35.5	110	109 12/16	24.3	38.7	49.6					
41	40 4/16	8.9	14.9	19.8	76	—	—	—	—	111	110 14/16	24.5	39.0	50.0					
42	41 6/16	9.3	15.6	20.7	77	76 2/16	17.1	27.6	35.9	112	—	—	—	—					
43	42 9/16	9.6	16.0	21.2	78	77 5/16	17.3	27.9	36.3	113	112 1/16	24.8	39.3	50.4					
44	43 12/16	9.8	16.4	21.7	79	78 7/16	17.7	28.5	37.2	114	113 3/16	25.0	39.6	50.8					
45	44 14/16	10.0	16.7	22.1	80	79 10/16	17.9	28.9	37.6	115	114 6/16	25.2	39.9	51.2					
46	—	—	—	—	81	80 12/16	18.1	29.2	38.0	116	115 8/16	25.6	40.5	52.0					

Power Consumption

Tested at Full Power with PDCU Series power supplies.

Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please contact factory with specific request.

High Efficacy (HE48)

Nominal Length (in)	Back and End Feed Actual Length	Watts				Nominal Length (in)	Back and End Feed Actual Length	Watts				Nominal Length (in)	Back and End Feed Actual Length	Watts				Nominal Length (in)	Back and End Feed Actual Length	Watts			
		LO	SO	MO	HO			LO	SO	MO	HO			LO	SO	MO	HO			LO	SO	MO	HO
12	10 11/16	1.7	2.5	3.5	5.7	47	46 2/16	6.9	10.7	13.3	24.7	82	81 9/16	12.5	19.9	23.9	42.2	117	—	—	—	—	—
13	12 11/16	1.7	2.5	3.5	5.7	48	—	—	—	—	—	83	—	—	—	—	—	118	117	17.5	27.7	34.3	58.7
14	—	—	—	—	—	49	48 2/16	7.1	11.2	13.9	25.4	84	83 9/16	12.8	20.3	24.5	43.1	119	119	17.8	28.1	34.9	59.6
15	14 10/16	2.0	3.0	4.0	7.2	50	—	—	—	—	—	85	—	—	—	—	—	120	—	—	—	—	—
16	—	—	—	—	—	51	50 1/16	7.4	11.7	14.5	26.3	86	85 8/16	13.1	20.8	25.1	44.1	121	120 15/16	18.1	28.6	35.5	60.5
17	16 10/16	2.4	3.5	4.6	8.7	52	—	—	—	—	—	87	—	—	—	—	—	122	—	—	—	—	—
18	—	—	—	—	—	53	52 1/16	7.7	12.3	15.1	27.4	88	87 8/16	13.4	21.3	25.7	45.0	123	122 15/16	18.3	29.0	36.0	62.1
19	18 9/16	2.7	3.9	5.2	10.2	54	—	—	—	—	—	89	—	—	—	—	—	124	—	—	—	—	—
20	—	—	—	—	—	55	54	8.0	12.9	15.7	28.5	90	89 7/16	13.7	21.7	26.3	46.0	125	124 14/16	18.4	29.5	36.6	63.8
21	20 9/16	3.0	4.4	5.8	11.7	56	56	8.4	13.5	16.4	29.5	91	—	—	—	—	—	126	—	—	—	—	—
22	—	—	—	—	—	57	—	—	—	—	—	92	91 7/16	14.0	22.1	26.9	47.0	127	126 14/16	18.6	29.9	37.2	65.4
23	22 8/16	3.4	4.9	6.4	13.2	58	57 15/16	8.7	14.0	17.0	30.6	93	—	—	—	—	—	128	—	—	—	—	—
24	—	—	—	—	—	59	—	—	—	—	—	94	93 6/16	14.3	22.6	27.5	47.9	129	128 13/16	18.8	30.4	37.7	67.0
25	24 8/16	3.7	5.4	7.0	14.7	60	59 15/16	9.0	14.6	17.6	31.6	95	—	—	—	—	—	130	—	—	—	—	—
26	—	—	—	—	—	61	—	—	—	—	—	96	95 6/16	14.4	22.8	27.8	48.4	131	130 13/16	18.9	30.8	38.3	68.6
27	26 7/16	4.1	5.9	7.5	15.8	62	61 14/16	9.4	15.2	18.2	32.6	97	—	—	—	—	—	132	—	—	—	—	—
28	—	—	—	—	—	63	—	—	—	—	—	98	97 5/16	14.7	23.3	28.5	49.4	133	132 12/16	19.1	31.2	38.9	70.2
29	28 7/16	4.4	6.4	8.1	16.8	64	63 14/16	9.7	15.6	18.7	33.7	99	—	—	—	—	—	134	—	—	—	—	—
30	—	—	—	—	—	65	—	—	—	—	—	100	99 5/16	15.0	23.7	29.0	50.4	135	134 12/16	19.3	31.8	39.4	70.7
31	30 6/16	4.8	6.9	8.7	17.9	66	65 13/16	10.0	16.1	19.2	34.7	101	—	—	—	—	—	136	—	—	—	—	—
32	—	—	—	—	—	67	—	—	—	—	—	102	101 4/16	15.3	24.1	29.6	51.3	137	136 11/16	19.5	32.3	40.0	71.2
33	32 6/16	5.0	7.2	9.0	18.5	68	67 13/16	10.4	16.5	19.8	35.7	103	—	—	—	—	—	138	—	—	—	—	—
34	—	—	—	—	—	69	—	—	—	—	—	104	103 4/16	15.6	24.6	30.2	52.3	139	138 11/16	19.8	32.8	40.6	71.8
35	34 5/16	5.4	7.7	9.6	19.5	70	69 12/16	10.7	17.0	20.3	36.7	105	—	—	—	—	—	140	—	—	—	—	—
36	—	—	—	—	—	71	—	—	—	—	—	106	105 3/16	15.8	25.0	30.7	53.2	141	140 10/16	20.0	33.3	41.1	72.3
37	36 5/16	5.7	8.2	10.2	20.6	72	71 12/16	11.0	17.4	20.8	37.7	107	—	—	—	—	—	142	—	—	—	—	—
38	—	—	—	—	—	73	—	—	—	—	—	108	107 3/16	16.1	25.5	31.3	54.2	143	142 10/16	20.2	33.9	41.7	72.8
39	38 4/16	6.0	8.7	10.8	21.5	74	73 11/16	11.3	17.9	21.4	38.7	109	—	—	—	—	—	144	—	—	—	—	—
40	—	—	—	—	—	75	—	—	—	—	—	110	109 2/16	16.4	25.9	31.9	55.2						
41	40 4/16	6.2	9.2	11.4	22.3	76	75 11/16	11.6	18.4	22.0	39.6	111	—	—	—	—	—						
42	—	—	—	—	—	77	—	—	—	—	—	112	111 2/16	16.7	26.4	32.5	56.1						
43	42 3/16	6.4	9.7	12.0	23.1	78	77 10/16	11.9	18.9	22.7	40.5	113	—	—	—	—	—						
44	—	—	—	—	—	79	—	—	—	—	—	114	113 1/16	17.0	26.8	33.1	57.0						
45	44 3/16	6.7	10.2	12.6	23.9	80	79 10/16	12.2	19.4	23.3	41.4	115	—	—	—	—	—						
46	—	—	—	—	—	81	—	—	—	—	—	116	115 1/16	17.3	27.3	33.7	57.9						

Power Consumption

Tested at Full Power with PDC Series power supplies.

Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please contact factory with specific request.

High Efficacy (HE64)

Nominal Length (in)	Back and End Feed Actual Length	Watts VHO	Nominal Length (in)	Back and End Feed Actual Length	Watts VHO	Nominal Length (in)	Back and End Feed Actual Length	Watts VHO	Nominal Length (in)	Back and End Feed Actual Length	Watts VHO
12	11 8/16	7.6	47	46 5/16	28.2	82	81 2/16	50.4	117	—	—
13	13	7.6	48	47 13/16	29.5	83	82 10/16	51.7	118	117 8/16	72.8
14	—	—	49	—	—	84	—	—	119	119	73.3
15	14 8/16	8.9	50	49 5/16	30.1	85	84 3/16	52.3	120	—	—
16	—	—	51	50 14/16	31.4	86	85 11/16	53.6	121	120 8/16	74.4
17	16	9.5	52	—	—	87	—	—	122	—	—
18	17 9/16	10.7	53	52 6/16	32.0	88	87 3/16	54.2	123	122	74.8
19	—	—	54	53 14/16	33.3	89	88 11/16	55.5	124	123 8/16	75.6
20	19 1/16	11.4	55	—	—	90	—	—	125	—	—
21	20 9/16	12.6	56	55 6/16	34.0	91	90 3/16	56.2	126	125 1/16	76.0
22	—	—	57	56 14/16	35.2	92	91 12/16	57.5	127	126 9/16	76.8
23	22 1/16	13.2	58	—	—	93	—	—	128	—	—
24	23 9/16	14.5	59	58 7/16	36.5	94	93 4/16	58.2	129	128 1/16	77.2
25	—	—	60	59 15/16	37.2	95	94 12/16	59.5	130	129 9/16	78.0
26	25 2/16	15.1	61	—	—	96	—	—	131	—	—
27	26 10/16	16.4	62	61 7/16	38.4	97	96 4/16	60.1	132	131 2/16	78.4
28	—	—	63	62 15/16	39.1	98	97 13/16	61.4	133	132 10/16	79.2
29	28 2/16	17.0	64	—	—	99	—	—	134	—	—
30	29 10/16	18.2	65	64 8/16	40.4	100	99 5/16	62.0	135	134 2/16	79.6
31	—	—	66	66	41.0	101	100 13/16	63.2	136	135 10/16	80.3
32	31 3/16	18.9	67	—	—	102	—	—	137	—	—
33	32 11/16	20.1	68	67 8/16	42.3	103	102 5/16	63.8	138	137 2/16	80.6
34	—	—	69	—	—	104	103 13/16	65.0	139	138 11/16	81.3
35	34 3/16	20.7	70	69	42.9	105	—	—	140	—	—
36	35 11/16	22.0	71	70 8/16	44.2	106	105 6/16	65.6	141	140 3/16	81.7
37	—	—	72	—	—	107	106 14/16	66.8	142	141 11/16	82.4
38	37 3/16	22.6	73	72 1/16	44.9	108	—	—	143	—	—
39	38 12/16	23.9	74	73 9/16	46.1	109	108 6/16	67.4	144	143 3/16	82.7
40	—	—	75	—	—	110	109 14/16	68.5			
41	40 4/16	24.5	76	75 1/16	46.7	111	—	—			
42	41 12/16	25.7	77	76 9/16	48.0	112	111 7/16	69.6			
43	—	—	78	—	—	113	112 15/16	70.1			
44	43 4/16	26.4	79	78 2/16	48.6	114	—	—			
45	44 13/16	27.6	80	79 10/16	49.8	115	114 7/16	71.2			
46	—	—	81	—	—	116	115 15/16	71.7			

Voltage Drop Calculator

The below chart assumes nominal voltage of 24 Volts and a Voltage Drop Allowance of 3% through the wire

Wattage [W]	Wire Length From Power Supply to Start of Run [ft]						
	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	136.9	86.1	54.1	34.0	21.4	13.5
30	181.4	114.1	71.7	45.1	28.4	17.8	11.2
35	155.5	97.8	61.5	38.7	24.3	15.3	9.6
40	136.0	85.5	53.8	33.8	21.3	13.4	8.4
45	120.9	76.0	47.8	30.1	18.9	11.9	7.5
50	108.8	68.4	43.0	27.1	17.0	10.7	6.7
55	98.9	62.2	39.1	24.6	15.5	9.7	6.1
60	90.7	57.0	35.9	22.6	14.2	8.9	5.6
65	83.7	52.6	33.1	20.8	13.1	8.2	5.2
70	77.7	48.9	30.7	19.3	12.2	7.6	4.8
75	72.5	45.6	28.7	18.0	11.3	7.1	4.5
80	68.0	42.8	26.9	16.9	10.6	6.7	4.2
85	64.0	40.3	25.3	15.9	10.0	6.3	4.0
90	60.5	38.0	23.9	15.0	9.5	5.9	3.7
96	56.7	35.6	22.4	14.1	8.9	5.6	3.5

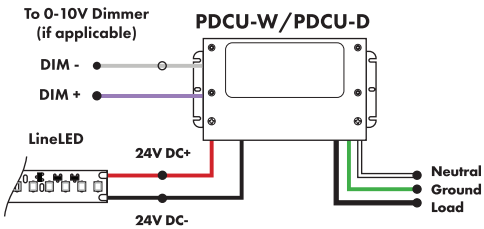
Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Universal Power Supply 1% 120VAC - 277VAC

MODEL	POWER	OUTPUT
PDCU-D - IP20 Dry Series	30 - 30 W 60 - 60 W 96 - 96 W 3X96 - 3X96 W	24 - 24 VDC
PDCU-W - IP66 Wet Series	96 - 96 W 3X96 - 3X96 W	

0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%.
For a complete list of compatible dimmers, see [Compatible Dimming Chart](#) on the Resources page.

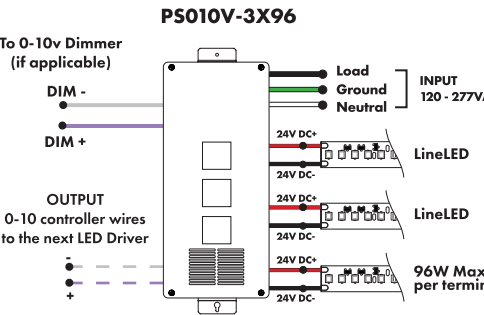
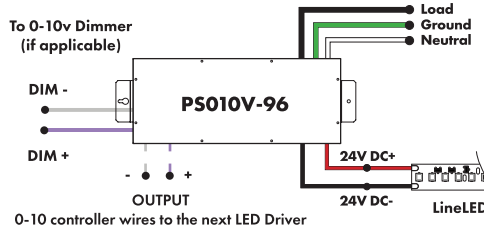


MODELS	PDCU-W 96W	PDCU-W 3X96W	PDCU-D 30W	PDCU-D 60W	PDCU-D 96W	PDCU-D 3X96W
Length	8.66"	11.85"	6.10"	7.93"	8.25"	9.57"
Width	3.73"	4.32"	3.35"	3.35"	4.10"	5.94"
Depth	1.61"	1.81"	1.33"	1.32"	1.56"	1.13"

0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING
PS010V - 0-10V Power Supply dims down to 0.1%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC	LIN - Linear LOG - Logarithmic

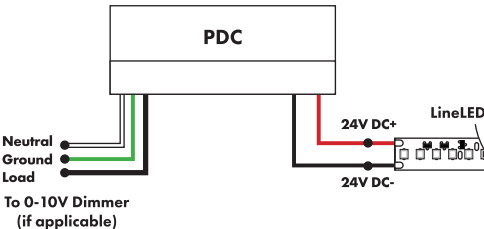
MODELS	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"



Triac, MLV, & ELV Compatible Dimmers

MODEL	POWER	OUTPUT
PDC - (IP20) Power Supply	96 - 96 Watts	24 - 24 VDC

MODELS	96W
Length	8.25"
Width	4.10"
Depth	1.56"



Power Supplies

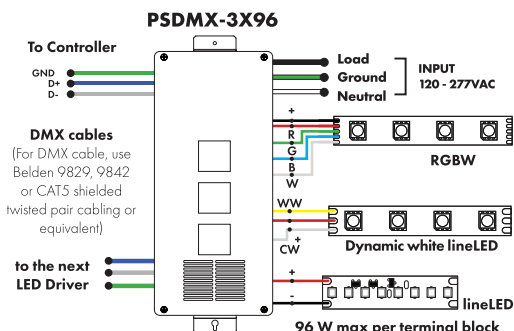
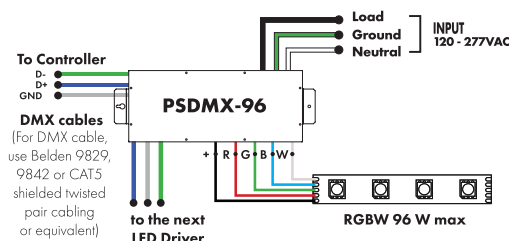
See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

DMX Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDMX - DMX Power Supply dims down to 0%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers

MODELS	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"

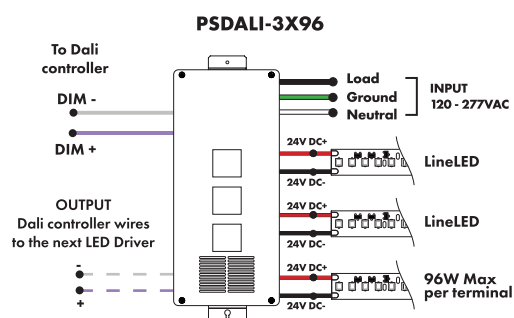
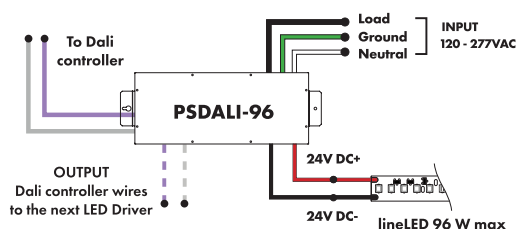


DALI 0% Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDALI - DALI Power Supply dims down to 0%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers

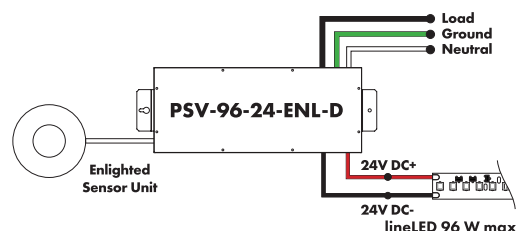
Model	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"



Enlightened Enabled Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ENL - Enlighted Dimming dims down to 0%	D - Damp

Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"



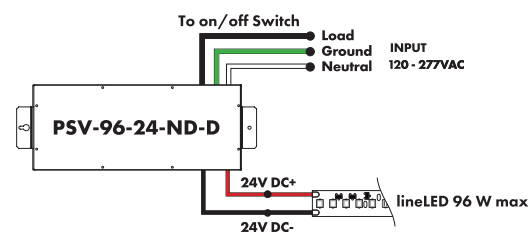
Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Non-Dimming Power Supply 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ND - Non Dimming	D - Damp

MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"



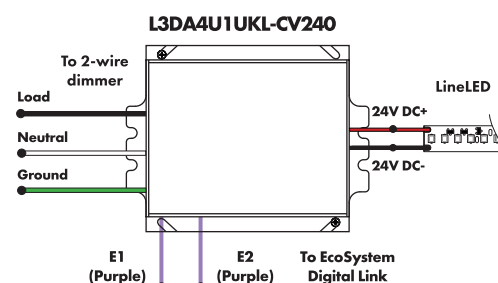
Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 1%

MODEL
L3DA4U1UKL-CV240

HiLume™ 1% EcoSystem Voltage LED driver
40W max

MODELS	L3DA4U1UKL-CV240
Length	4.98"
Width	4.00"
Depth	2.62"



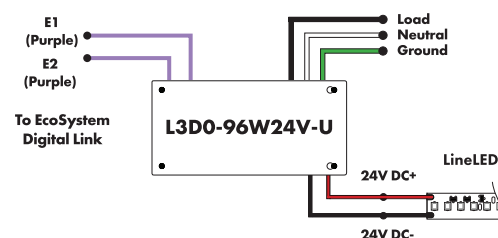
Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 0.1%

MODEL
L3D0-96W24V-U

HiLume™ 0.1% EcoSystem Voltage LED Driver with Soft-On, Fade-to-Black™
96W max

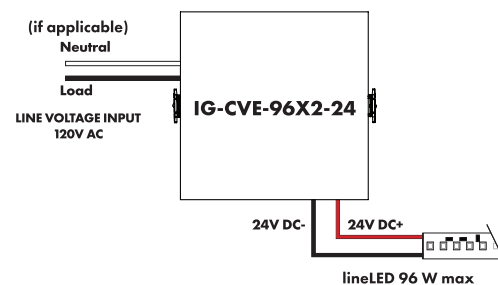
MODELS	L3D0
Length	10.50"
Width	5.50"
Depth	2.00"



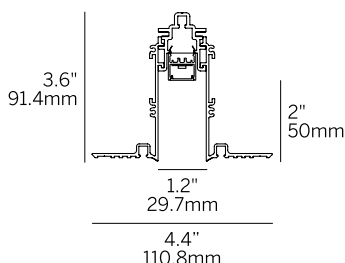
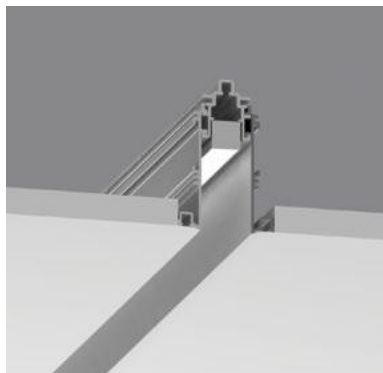
In-Ground Power Supplies

MODEL	POWER	OUTPUT	INPUT
IG - In ground CVE Series	CVE - ELV Dimming DALI - eldoLED Dali dimming Both dims down to 0%	96X2 - 2 X 96 Watt	24 - 24 VDC
			Blank - 120 V 277 - 240/277 V

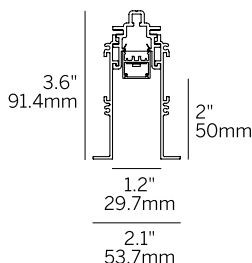
MODELS	Dual Circuit
Length	8.40"
Width	8.30"
Depth	8.10"



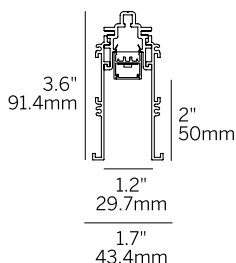
20 Linear Recessed Regressed



Recessed Plaster Trim (RPT)

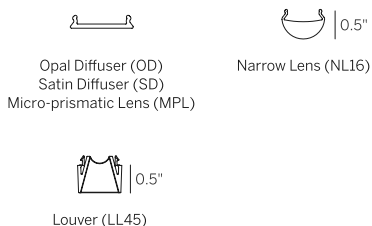


Recessed Bezel Trim (RBT)
Recessed Grid Trim (RGT9/RGT15)



Recessed Return Trim (RRT)

Lenses/Accessories



Ordering Information

Model	Fixation	Pattern	Length	Power ²	CRI/CCT ³	Driver ⁴	Lens	Finish ⁶	Options
WG-20LRR	RPT RBT RRT RGT9 RGT15	S P ¹ PZ ¹	A A x B A x B x C A x B x A x B	L M H	927 930 935 940 WD RGBW	X S D010 L3DAE L3D0E EL96 DMX	OD (std) SD MPL NL16 LL45B ⁵ LL45W ⁵ LL45S ⁵	W (std) B S F	BEC FEC PEC EM WL ⁷

Luminaire

- Recessed fixture with fully regressed light for continuous mounting to any desired length (1/4" increments), as well as standard grid multiples.
- Multiple lens options for diffuse, high efficiency and luminous effect.
- Remote driver options (required). field replaceable LED boards.
- Lengths and angles factory cut to exact field dimensions.
- Supplied with 4' class 2 plenum rated feed cable per fixture lengths.
- 90+ CRI, 3 steps MacAdam.
- L70 (TM21 Projected 85C) Static White 60,000 hours, RGBW 50,000 hours, WD 36,000 hours.
- ETL and ETL-C for dry and damp location.

Fixation

- RPT = Recessed plaster trim
- RBT = Recessed bezel trim
- RRT = Recessed return trim
- RGT9 = Recessed grid trim 9/16"
- RGT15 = Recessed grid trim 15/16"

Pattern¹

- S = Straight run
- P = Standard patterns 2, 3 or 4 sided with 90° corners on the same plane¹
- PZ = Non-standard patterns and/or corners other than 90° on multiple planes, consult factory¹

Length

- A, B, C = specify inches to the nearest 0.25" (i.e. 72.25") For patterns specify each length (i.e. 2 sided: A x B = 72.25" x 48"; 3 sided: A x B x C; 4 sided: A x B x A x B)
- For 2 and 4 foot fixtures to fit ceiling grids specify 24" and 48" lengths

Power²

- L = 3W/ft low power (WD 2.7 W/ft) (24V)
- M = 6W/ft mid power (WD 5.5 W/ft) (24V) (RGBW - 7.6W/ft)
- H = 10W/ft high power (WD 8 W/ft) (24V)

CRI/CCT (90+ CRI)³

- 927 = 2700K
- 930 = 3000K
- 935 = 3500K
- 940 = 4000K
- WD = Warm Dimming 1800 - 3000K
- RGBW = 3000K White (M power only)

Driver (remote)⁴

- X = No driver, ordered separately
- S = Standard driver 120-277V
- D010 = Osram, 10%, 0-10V dimming, 120-277V
- L3DAE = Lutron Hi-lume 1% EcoSystem, 120-277V
- L3D0E = Lutron Hi-lume Premier 0.1% EcoSystem, 120-277V
- EL96 = Osram / EldoLED, 24V, 0.1% 0-10V Dimming
- DMX = Osram / EldoLED, 24V, 0.1% DMX Dimming

Lens

- OD = Satin opal diffuser (standard)
- SD = Satin clear diffuser
- MPL = Micro-prismatic lens
- NL16 = Linear narrow lens, 16°
- LL45B = Linear louver black⁵
- LL45W = Linear louver white⁵
- LL45S = Linear louver satin⁵

Finish⁶

- W = White, 15% gloss, RAL 9010 / Tiger Drylac 009/10120 (standard)
- B = Black, 15% gloss, RAL 9005 / Tiger Drylac 049/90053
- S = Silver, 15% gloss, RAL 9006 / Tiger Drylac 049/90500
- F = Custom finished trim, specify RAL

Options

- BEC = Bezel end caps
- FEC = Flat end caps
- PEC = Plaster-in end caps
- EM = Emergency LED driver (remote only)
- WL = Wet Location Under Canopy / Cover⁷

- 1 See pattern spec sheet.
- 2 Wattage shown is for LED boards only, system wattage varies depending on driver selected.
- 3 See photometric data sheet for delivered lumens.
- 4 Remote power supply required. See power supply page for details.
- 5 Louver available in 4.75" increments.
- 6 See Tiger Drylac color chart: inter-lux.com/tiger
- 7 Wet Location option available for OD / SD / MPL lenses and recessed / surface ceiling applications only.

Cutout Dimensions

RPT = 2.25" width / length + 1/4"
RBT = 1.75" width / length + 1/4"
RRT = 1.75" width / length + 1/4"

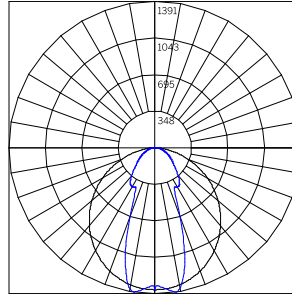
20 Linear Recessed Regressed

inter•lux

WG-20LRR-...-OD-W

Delivered Lumens Per Foot

		Power			
		L [3 W/ft]	M [6 W/ft]	H [10 W/ft]	RGBW [7.6 W/ft]
CCT	927	124	248	435	—
	930	135	270	472	—
	935	160	321	561	—
	940	190	381	667	—
	WD ²	95	197	286	—
	RGBW ³	—	—	—	161
UGR ⁴		23.8	26.4	28.2	—



BEAM ANGLE (0-180) = 40.0
BEAM ANGLE (90-270) = 110.3

ILLUMINANCE - 48" OD H 3500K

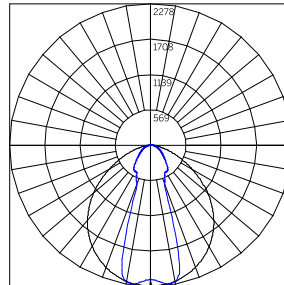
WG-20LRR-...-S-48-H-935-...-OD-W-...¹

Mounting Height [ft]	Illuminance [fc at max cd]	Beam Width [ft]
2	348	1.5
4	87	2.9
6	39	4.4
8	22	5.8
10	14	7.3
12	10	8.7
14	7	10.2
16	5	11.7
18	4	13.1
20	3	14.6

WG-20LRR-...-SD-W

Delivered Lumens Per Foot

		Power			
		L [3 W/ft]	M [6 W/ft]	H [10 W/ft]	RGBW [7.6 W/ft]
CCT	927	169	338	592	—
	930	184	368	643	—
	935	218	437	764	—
	940	259	519	908	—
	WD ²	129	269	389	—
	RGBW ³	—	—	—	220
UGR ⁴		23.8	26.4	28.2	—



BEAM ANGLE (0-180) = 33.8
BEAM ANGLE (90-270) = 102.8

ILLUMINANCE - 48" SD H 3500K

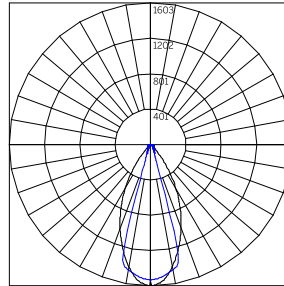
WG-20LRR-...-S-48-H-935-...-SD-W-...¹

Mounting Height [ft]	Illuminance [fc at max cd]	Beam Width [ft]
2	570	1.2
4	142	2.4
6	63	3.6
8	36	4.9
10	23	6.1
12	16	7.3
14	12	8.5
16	9	9.7
18	7	10.9
20	6	12.2

WG-20LRR-...-LL45B-W

Delivered Lumens Per Foot

		Power			
		L [3 W/ft]	M [6 W/ft]	H [10 W/ft]	RGBW [7.6 W/ft]
CCT	927	47	93	163	—
	930	51	101	177	—
	935	60	121	211	—
	940	72	143	251	—
	WD ²	36	74	107	—
	RGBW ³	—	—	—	61
UGR ⁴		11.2	13.7	15.6	—



BEAM ANGLE (0-180) = 31.2
BEAM ANGLE (90-270) = 49.6

ILLUMINANCE - 48" LL45B H 3500K

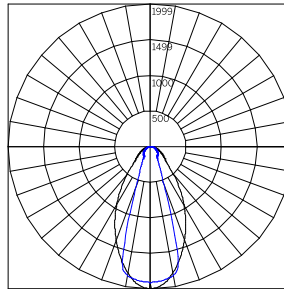
WG-20LRR-...-S-48-H-935-...-LL45B-W-...¹

Mounting Height [ft]	Illuminance [fc at max cd]	Beam Width [ft]
2	401	1.1
4	100	2.2
6	45	3.3
8	25	4.5
10	16	5.6
12	11	6.7
14	8	7.8
16	6	8.9
18	5	10
20	4	11.2

WG-20LRR-...-LL45W-W

Delivered Lumens Per Foot

		Power			
		L [3 W/ft]	M [6 W/ft]	H [10 W/ft]	RGBW [7.6 W/ft]
CCT	927	91	181	317	—
	930	99	197	345	—
	935	117	234	410	—
	940	139	278	487	—
	WD ²	69	144	209	—
	RGBW ³	—	—	—	118
UGR ⁴		17.7	20.3	22.1	—



BEAM ANGLE (0-180) = 34.1
BEAM ANGLE (90-270) = 57.7

ILLUMINANCE - 48" LL45W H 3500K

WG-20LRR-...-S-48-H-935-...-LL45W-W-...¹

Mounting Height [ft]	Illuminance [fc at max cd]	Beam Width [ft]
2	500	1.2
4	125	2.5
6	56	3.7
8	31	4.9
10	20	6.1
12	14	7.4
14	10	8.6
16	8	9.8
18	6	11
20	5	12.3

Power Multiplier				
	L [3 W/ft]	M [6 W/ft]	H [10 W/ft]	RGBW [7.6 W/ft]
9XX/RGBW	0.29	0.57	1.00	0.29
WD	0.17	0.35	0.51	—
CCT Multiplier				
	927	930	935	940
	0.77	0.84	1.00	1.19

- 1 Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.
- 2 WD lumen data at maximum output (3000K).
- 3 RGBW lumen data at maximum output with 3000K White LED.
- 4 UGR value noted is the maximum UGR (crosswise) with 935 LEDs / 48" length.

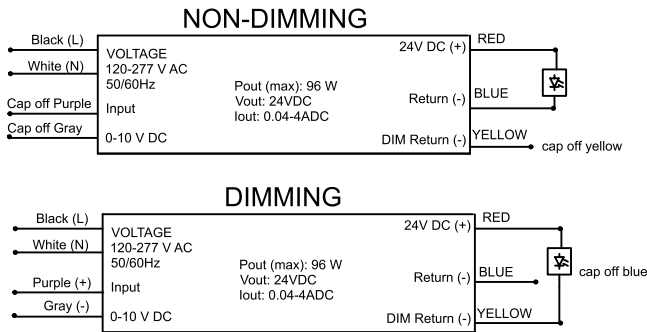
20 Linear - Constant Voltage driver information

Please refer to driver manufacturer's website for current data sheets and wiring guidelines.

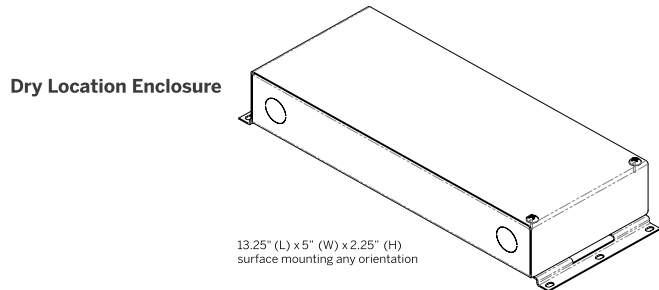
LINEAR FEET PER DRIVER - CONSTANT VOLTAGE					
Driver	Wattage	Power [W / Ft]			
		L [3.0]	M [6.0]	H [10.0]	RGBW [8.0]
S*	96W	24'-0"	12'-0"	6'-0"	-
D010*	96W	24'-0"	12'-0"	6'-0"	-
L3DAE	40W	12'-0"	6'-0"	4'-0"	-
L3D0E	96W	24'-0"	12'-0"	6'-0"	-
EL96*	96W	24'-0"	12'-0"	6'-0"	-
DMX*	96W	24'-0"	12'-0"	6'-0"	8'-0"

* Linear Feet per Driver assumes 80% reduction from full load.

S / D010 - EldoLED, Non-Dim or 10% 0-10V dimming, 120-277V [spec sheet](#)



Warning: if not connected to a 0-10V dimmer, driver MUST be wired as Non-dim. Not doing so can cause the driver and the fixtures to fail prematurely.



Compatible/Recommended dimmers and interfaces*:

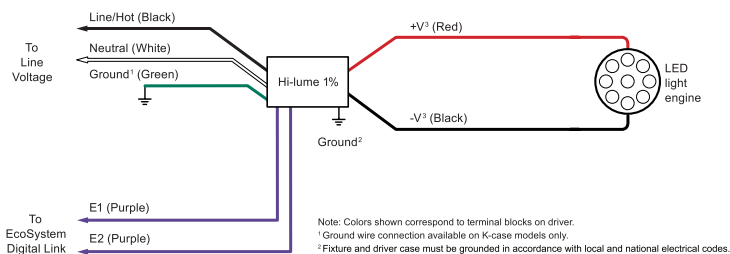
- Lutron Diva DVSTV (Wallbox dimmer)
- Lutron Nova T NTSTV (Wallbox dimmer)
- Lutron Maestro MS-Z101/MS-Z101-V (Wallbox dimmer/sensor)
- Lutron PowPak 0-10V RMJ-5T-DV-B (Energi Tripak)
- Lutron GRX-TVI (0-10V interface for Grafik QS and some commercial dimming panels)
- Lutron TVI-LMF-2A (EcoSystem to 0-10V interface)
- Lutron QSN-4T16-S (Energi Savr Node 0-10V)
- Lutron TVM2 module (HomeWorks and commercial dimming panels)

*Consult factory for any dimmer not listed

Maximum wiring distance*				
		Load per driver		
		≤48W	≤72W	≤96W
Wire gauge	#18AWG	37 ft (11.3 m)	25 ft (7.6 m)	18 ft (5.5 m)
	#16AWG	59 ft (18 m)	39 ft (11.9 m)	29 ft (8.8 m)
	#14AWG	95 ft (29 m)	63 ft (19.2 m)	47 ft (14.3 m)
	#12AWG	151 ft (46 m)	101 ft (30.8 m)	75 ft (22.9 m)
	#10AWG	241 ft (73.5 m)	160 ft (48.8 m)	120 ft (36.6 m)

* Voltage drop guide for 24VDC. Actual Voltage drop to be calculated by installer.

L3DAE = Lutron Hi-lume 1% EcoSystem, 120-277V [spec sheet](#)



Dry Location Enclosure

Case type KL

K-case mounted on a 4" (102 mm) W x 1.5" (38 mm) H x 4" (102 mm) L junction box to provide wiring compartment



EcoSystem Controls			
Product	Model Number	Drivers per Control	Dimming
PowPak dimming module with EcoSystem	RMJ-ECO32-DV-B 3	32 per EcoSystem link	100%~1%
	FCJ-ECO, FCJS-ECO	3 per EcoSystem link¹	100%~1%
Energi Savr Node with EcoSystem	2QSN-1ECO-S, QSN-2ECO-S	64 per EcoSystem link	100%~1%
GRAFIK Eye QS with EcoSystem	QSGRJ-_E, QSGR-_E	64 per EcoSystem link	100%~1%
Quantum	Various	64 per EcoSystem link	100%~1%

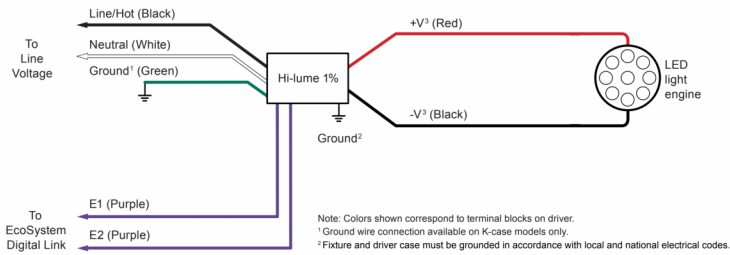
1 Up to 3 drivers controlled as a single zone (broadcast EcoSystem).

Maximum wiring distance*				
		10 V to 20 V	20.5 V to 40 V	40.5 V to 60 V
Wire gauge	24 AWG	2.5 ft (0.8 m)	4 ft (1.2 m)	8 ft (2.4 m)
	22 AWG	4 ft (1.2 m)	6 ft (1.8 m)	12 ft (3.7 m)
	20 AWG	6 ft (1.8 m)	10 ft (3 m)	20 ft (6.1 m)
	18 AWG	10 ft (3 m)	15 ft (4.6 m)	30 ft (9.1 m)
	16 AWG	15 ft (4.6 m)	25 ft (7.6 m)	50 ft (15.2 m)
	14 AWG	25 ft (7.6 m)	40 ft (12.2 m)	75 ft (22.9 m)
	12 AWG	40 ft (12.2 m)	60 ft (18.3 m)	100 ft (30.5 m)

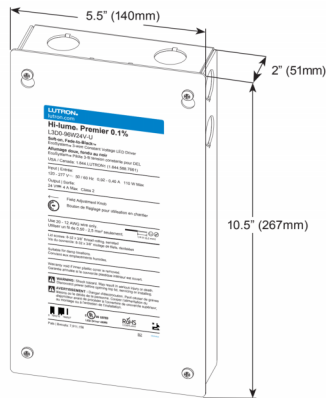
Terminal blocks on the drivers accept only solid 18 or 16 AWG (0.75 or 1.5 mm²) wire. To use wire gauges larger or smaller than this terminal blocks' rated gauge of 18 or 16 AWG (0.75 or 1.5 mm²) refer to the Terminal Wiring Gauges diagram at the end of this document. Connect up to 3 ft (0.9 m) of 18 or 16 AWG (0.75 or 1.5 mm²) wire to the LED driver terminal blocks, then connect 14 to 12 AWG (2.5 to 4.0 mm²) or 24 AWG to 20 AWG (0.20 mm² to 0.50 mm²) up to the length allowed in the above table.

20 Linear - Constant Voltage driver information

L3D0E = Lutron Hi-lume Premier 0.1% EcoSystem, 120-277V spec sheet



Dry Location Enclosure



Drivers are programmed to Linear dimming curve by default.
Compatible/Recommended dimmers and interfaces*:

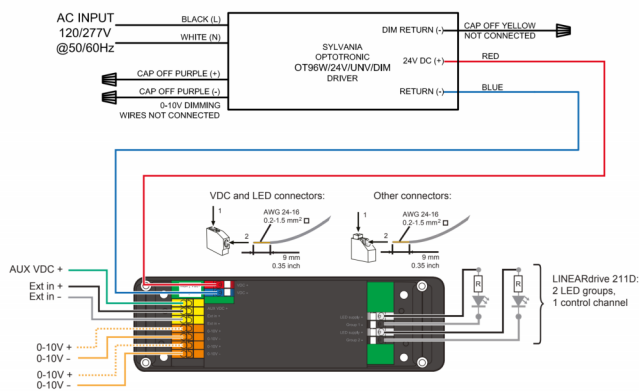
- PowPak Dimming Module with EcoSystem
- Lutron Nova T NTSTV (Wallbox dimmer)
- Lutron Maestro MS-Z101/MS-Z101-V (Wallbox dimmer/sensor)
- Lutron PowPak 0-10V RMJ-5T-DV-B (Energi Tripak)
- Lutron GRX-TVI (0-10V interface for Grafik QS and some commercial dimming panels)
- Lutron TVI-LMF-2A (EcoSystem to 0-10V interface)
- Lutron QSN-4T16-S (Energi Savr Node 0-10V)
- Lutron TVM2 module (HomeWorks and commercial dimming panels)

*Consult factory for any dimmer not listed

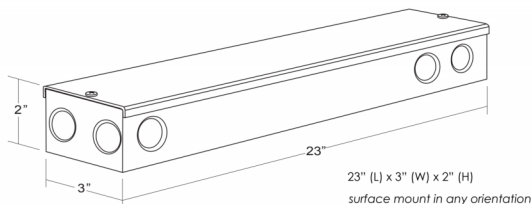
Wire gauge*	Maximum wiring distance*
24 AWG (0.20 mm ²) ³	6 ft (1.8 m)
22 AWG (0.34 mm ²) ³	10 ft (3.0 m)
20 AWG (0.50 mm ²)	15 ft (4.5 m)
18 AWG (0.75 mm ²)	25 ft (7.62 m)
16 AWG (1.0 mm ²)	40 ft (12.2 m)
14 AWG (1.5 mm ²)	60 ft (18.3 m)
12 AWG (2.5 mm ²)	100 ft (30.5 m)
10 AWG (4.0 mm ²) ³	150 ft (45.7 m)

1 To use wire gauges larger or smaller than terminal blocks' rated gauge of 20 AWG to 12 AWG (0.50 mm² to 2.50 mm²), connect 12 in (30 cm) or less of rated wire from terminal and connect with larger or smaller wire.

EL96 = Osram / EldoLED, 24V, 1% 0-10V Dimming Driver spec sheet | DMX interface



Dry Location Enclosure



Compatible/Recommended dimmers and interfaces*:

- Lutron Diva DVSTV (Wallbox dimmer)
- Lutron Nova T NTSTV (Wallbox dimmer)
- Lutron Maestro MS-Z101/MS-Z101-V (Wallbox dimmer/sensor)
- Lutron PowPak 0-10V RMJ-5T-DV-B (Energi Tripak)
- Lutron GRX-TVI (0-10V interface for Grafik QS and some commercial dimming panels)
- Lutron TVI-LMF-2A (EcoSystem to 0-10V interface)
- Lutron QSN-4T16-S (Energi Savr Node 0-10V)
- Lutron TVM2 module (HomeWorks and commercial dimming panels)

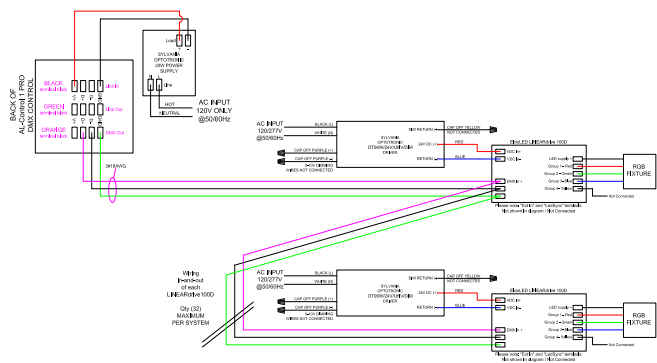
*Consult factory for any dimmer not listed

Maximum wiring distance*				
		Load per driver		
		≤48W	≤72W	≤96W
Wire gauge	#18AWG	37 ft (11.3 m)	25 ft (7.6 m)	18 ft (5.5 m)
	#16AWG	59 ft (18 m)	39 ft (11.9 m)	29 ft (8.8 m)
	#14AWG	95 ft (29 m)	63 ft (19.2 m)	47 ft (14.3 m)
	#12AWG	151 ft (46 m)	101 ft (30.8 m)	75 ft (22.9 m)
	#10AWG	241 ft (73.5 m)	160 ft (48.8 m)	120 ft (36.6 m)

* Voltage drop guide for 24VDC. Actual Voltage drop to be calculated by installer.

20 Linear - Constant Voltage driver information

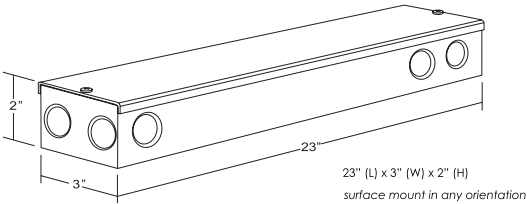
EL96-DMX = Osram / EdoLED, 24V, 0.1% DMX Dimming [Driver spec sheet](#) | [DMX interface](#)



Maximum wiring distance*				
		Load per driver		
		≤48W	≤72W	≤96W
Wire gauge	#18AWG	37 ft (11.3 m)	25 ft (7.6 m)	18 ft (5.5 m)
	#16AWG	59 ft (18 m)	39 ft (11.9 m)	29 ft (8.8 m)
	#14AWG	95 ft (29 m)	63 ft (19.2 m)	47 ft (14.3 m)
	#12AWG	151 ft (46 m)	101 ft (30.8 m)	75 ft (22.9 m)
	#10AWG	241 ft (73.5 m)	160 ft (48.8 m)	120 ft (36.6 m)

* Voltage drop guide for 24VDC. Actual Voltage drop to be calculated by installer.

Dry Location Enclosure



Emergency for Constant Voltage

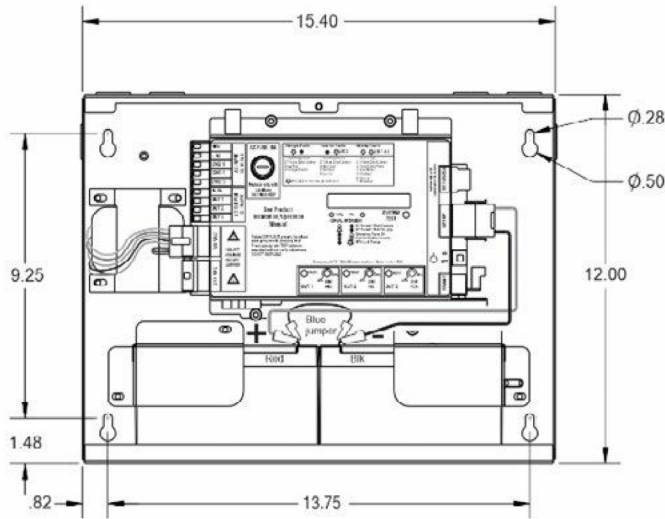
Ordering Part #s:

EM-560-10025 (spec sheet link): Isolite E3 Mini Inverter E3MINI-125-LC-MB, 125VA, Field-selectable 120/277V, lead calcium battery, back mount. UL924. 90 minute EM Operation. 20-30°C Operating Temp. Dimensions: (W) 15.4" x (H) 12" x (D) 4.23"

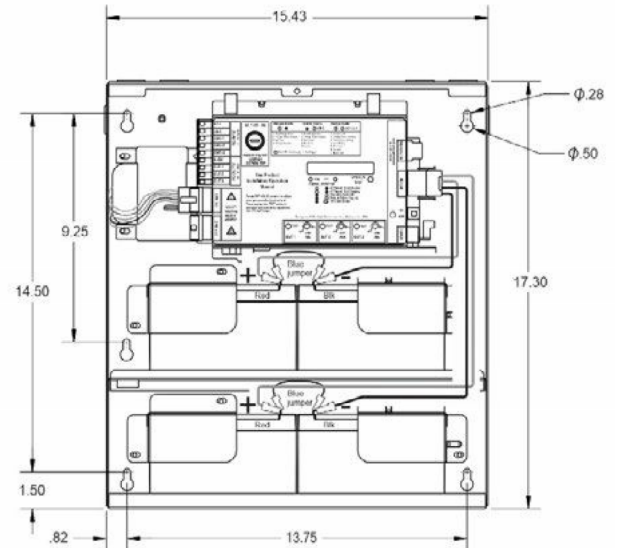
EM-560-10026 (spec sheet link): Isolite E3 Mini Inverter E3MINI-250-LC-MB, 250VA, Field-selectable 120/277V, lead calcium battery, back mount. UL924. 90 minute EM Operation. 20-30°C Operating Temp. Dimensions: (W) 15.43" x (H) 17.3" x (D) 4.25"

Considerations:

- The inverters power the line side of the drivers, therefore they operate the fixtures at full output while in EM mode ("full output" compared to what the Normal power driver does).
- The inverter needs to be sized-up to be able to power the max input current of the driver at the appropriate AC input voltage (not the driver's rated wattage), regardless of the connected load. The 125VA inverter can power 1x 96W driver, or 2x 40W drivers. The 250VA can power 2x 96W drivers or 5x 40W drivers.

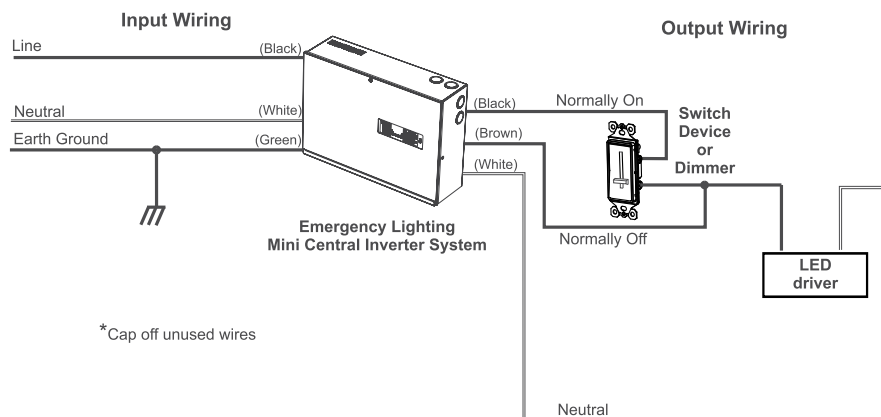


EM-560-10025



EM-560-10026

Inverter Wiring diagram Dimming or Switched Lighting Zone Using Normally Off as a Bypass



EM from a Generator / EM breaker panel: When powering fixtures from an EM generator or EM breaker panel, the driver operates exactly the same way as it does when in normal power mode, and the light output is not affected.

Considerations:

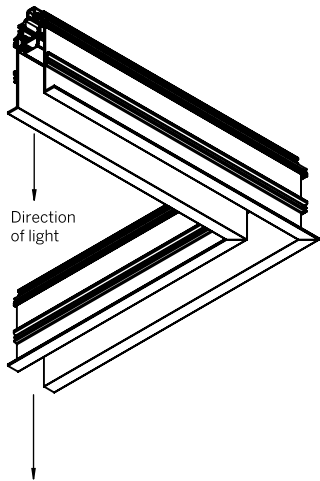
- The EM circuit needs to be sized-up to be able to power the max input current of the driver at the appropriate AC input voltage (not the driver's rated wattage), regardless of the connected load.
- If the driver is integral, the line voltage N and EM power drops coming into the fixture need to be isolated from each other / cannot be in the same conduit.

20 Linear Recessed Regressed

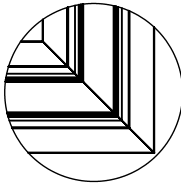
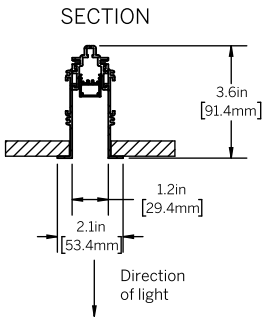


PATTERN CORNER Recessed Bezel Trim

WG-20LRR-RBT-P-...



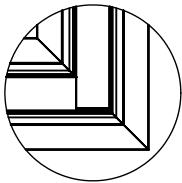
Minimum Angle 45°
Maximum Angle 180°



Mitered / Welded Housing
Mitered Lens (OD, SD, MPL)



Mitered / Welded Housing
Butted Lens (LL45)



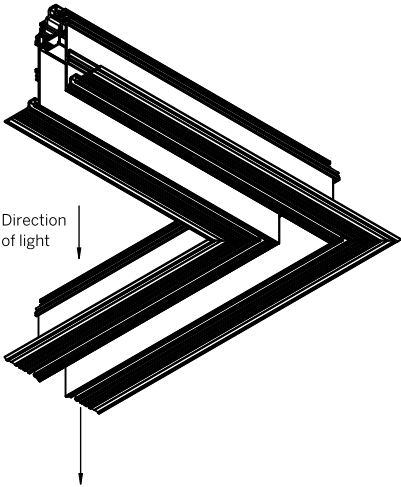
Mitered / Welded Housing
Butted Lens (NL16)

20 Linear Recessed Regressed

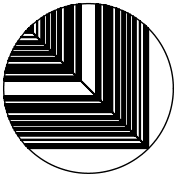
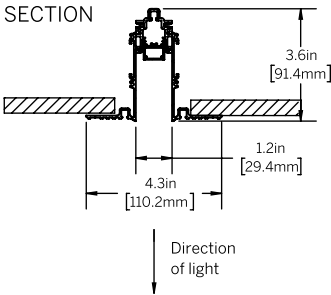


PATTERN CORNER Recessed Plaster Trim

WG-20LRR-RPT-P-...



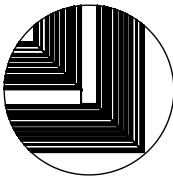
Minimum Angle 45°
Maximum Angle 180°



Mitered / Welded Housing
Mitered Lens (OD, SD, MPL)



Mitered / Welded Housing
Butted Lens (LL45)



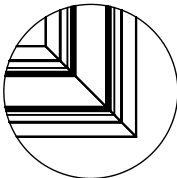
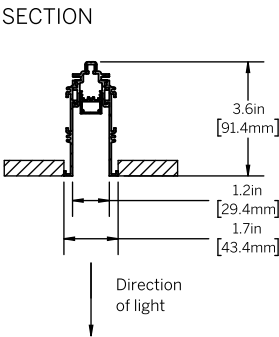
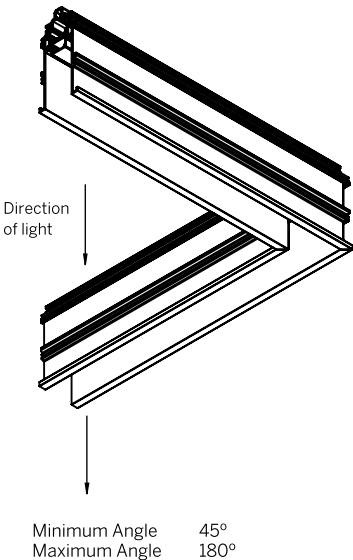
Mitered / Welded Housing
Butted Lens (NL16)

20 Linear Recessed Regressed



PATTERN CORNER Recessed Return Trim

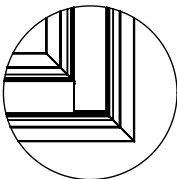
WG-20LRR-RRT-P-...



Mitered / Welded Housing
Mitered Lens (OD, SD, MPL)



Mitered / Welded Housing
Butted Lens (LL45)

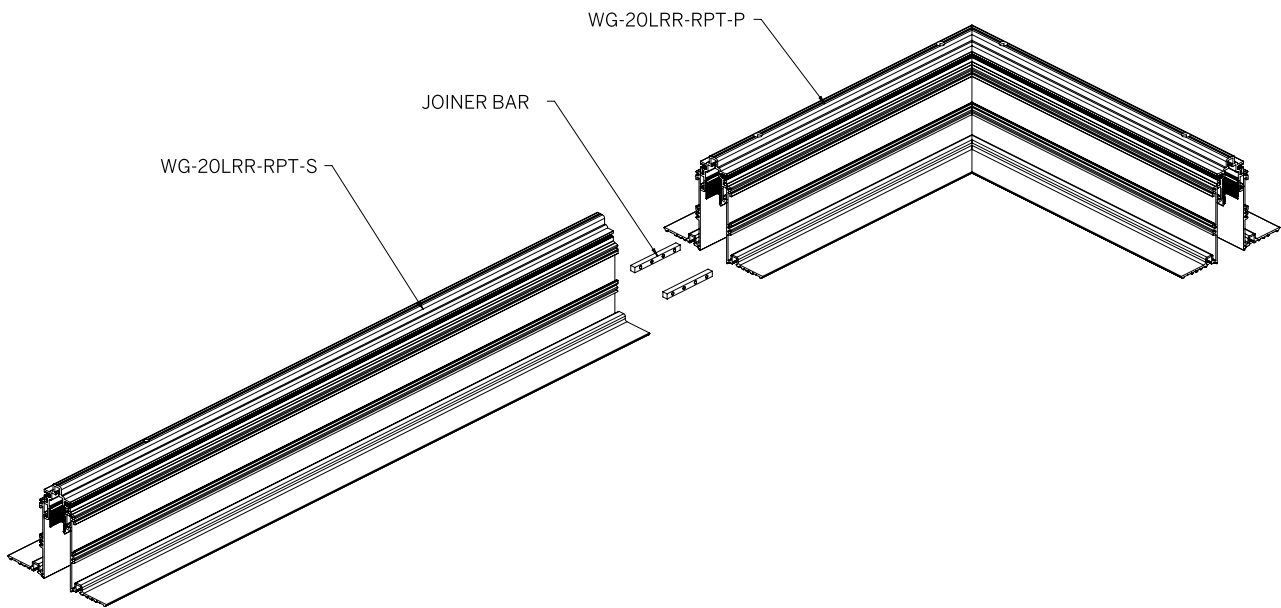


Mitered / Welded Housing
Butted Lens (NL16)

20 Linear Recessed Regressed



CORNER + STRAIGHT RUN CONNECTIONS

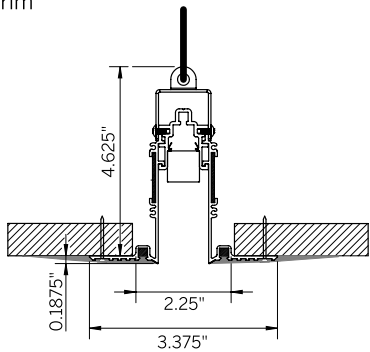


20 Linear Recessed Regressed

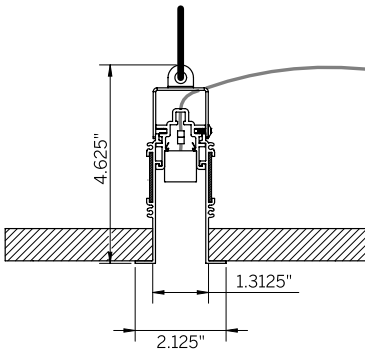


MOUNTING

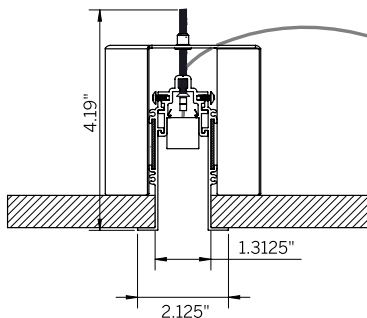
Recessed Plaster Trim



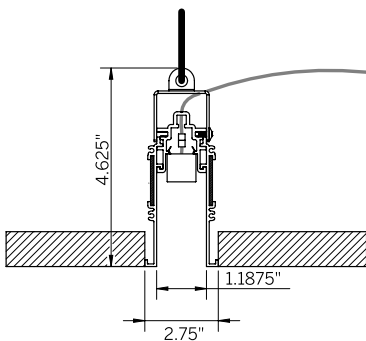
Recessed Bezel Trim (Mounting Bracket)



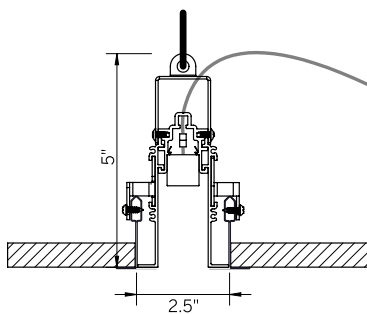
Recessed Bezel Trim (Rotating Bracket)



Recessed Return Trim



Recessed Grid Trim





Advantages

- Available in multiple lengths to accommodate exacting installations
- Multiple wattages and lumen output for maximum flexibility within any application
- Four (4) standard color temperatures from 2700K-4000K; non-standard available
- Compatible with all common dimmer and control standards such as 0-10V, 3-wire, forwardphase w/neutral, DALI and DMX. For others, please contact factory
- High efficiency design delivers more lumens per watt
- Same LED technology used throughout all Whitegoods products for color and performance consistency
- 5-year warranty

Technical Data

■ form	linear
■ circuitry	parallel
■ power (W/ft)	3W, 6W, 10W
■ supply type	CV
■ operating voltage (VDC)	24
■ color rendering index Ra	90+
■ MacAdam	3 step
■ viewing angle (°)	120
■ LED (SMD) quantity (per foot)	70
■ PCB substrate	FR4
■ lifetime–L70 (h)*	60,000
■ working temperature	-40°C - 100°C

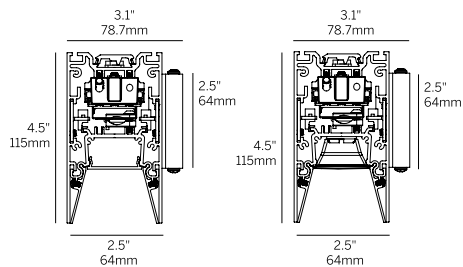
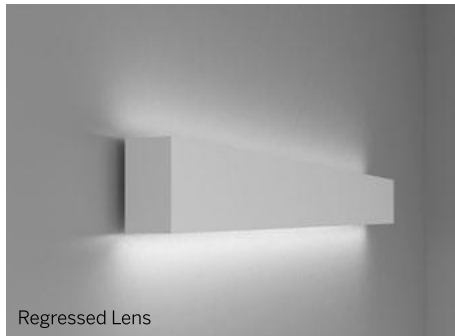
*Tested to LM80

Power (w/ft)	CCT (k)	Lum.Flux (lm/ft)	lm/watt
3	2700	427	142
3	3000	427	142
3	3500	427	142
3	4000	427	142
6	2700	889	148
6	3000	889	148
6	3500	889	148
6	4000	889	148
10	2700	1491	149
10	3000	1491	149
10	3500	1491	149
10	4000	1491	149

Conformal coated boards for damp and wet location applications are available.

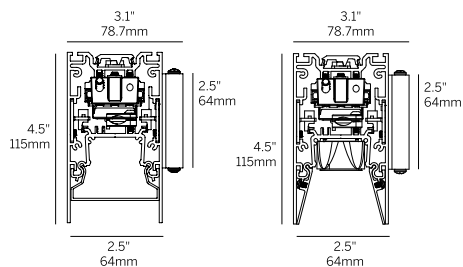
ProTools 60 Linear Direct/Indirect

Wall / Mullion Mount



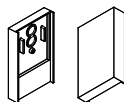
Recessed Micro-prismatic Lens (RML)

Recessed Louver (RLW, RLB)



Regressed Opal Lens (ROL)

Recessed Elliptical Optic (REO)



End Caps
(2 included per run)

Ordering Information					Direct			Indirect					
WG-60PTLDI													
Model ¹	Fixation	Pattern	Length ³	CRI/CCT	Optic ⁴	Beam	Power ⁵	Optic	Power ⁵	Driver ⁷	Housing Finish ⁸	Reflector Finish ⁸	Options
WG-60PTLDI	SW SWM	S PI ² PO ²	24 48 96 XX ⁴	927 930 935 940 TW ⁵	RML ROL RLW RLB REO	80 105 35 50 20x40	P1 P2 P3 P4	A W	P1 P2	E1 L1 POE BT DALI TQ	W (std) B S F	W B S F	DC EM EW

Luminaire¹

- 2.4" aperture, wall mount bi-directional luminaire.
- Specialized mounting bracket to mount directly to 2.5" window mullion.
- Standard and tailored run lengths, including corners.
- Separately controllable up and down lighting with distribution options.
- Choice of beam spreads to accommodate all applications.
- Extreme brightness control and the elimination of disturbing glare.
- Modularity of insert modules for ultimate design flexibility.
- Consistent LED technology throughout the Whitegoods product range.
- Flicker-free full range dimming with standard driver (Eldoled).
- L70 (TM21 Projected 85C) 72,000 hours.
- ETL and ETL-C for dry and damp location.

Fixation

- SM = Surface Wall Mount
- SWM = Surface Wall Mullion Mount

Pattern

- S = Straight run
- PI = Standard patterns 2, 3 or 4 sided with 90° inside corners on the same plane²
- PO = Standard patterns 2, 3 or 4 sided with 90° outside corners on the same plane²

Length³

- 24 = 24"
- 48 = 48"
- 96 = 96"
- XX = Specify inches to the nearest 0.25"⁴

CRI/CCT (90+ CRI)

- 927 = 2700K
- 930 = 3000K
- 935 = 3500K
- 940 = 4000K
- TW = Tuneable white 2200-4000K⁴

Optic Direct⁴

- RML = Recessed micro-prismatic lens
- ROL = Recessed opal lens
- RLW = Recessed louver white (supplied with white reflectors standard)
- RLB = Recessed louver black (supplied with black reflectors only)
- REO = Recessed elliptical optic

Optic Indirect

- A = Asymmetric (standard)
- W = Wide (batwing)

Beam

- 80 = 80° (RML)
- 105 = 105° (ROL)
- 35 = 35° (RLW, RLB)
- 50 = 50° (RLW, RLB)
- 20x40 = 20x40° (REO)

Power Direct⁶

- P1 = 3W/ft
- P2 = 6W/ft
- P3 = 10W/ft
- P4 = 15W/ft

Power Indirect Lens (W/A)⁶

- P1 = 3W/ft
- P2 = 6W/ft

Driver⁷

- E1 = EldoLED 0.1% dimming, 0-10V (120-277V)
- L1 = Lutron 1% dimming, Ecosystem (120-277V)
- PoE = Power over Ethernet
- BT = Wireless CAS – Casambi (Must specify BT with E1 or DALI)
- DALI = EldoLED Dali DT8 0.1% (120-277V)
- TQ = T-Series for Lutron Quantum 0.1% (120-277V) (Tunable white ONLY)

Housing Finish⁸

- W = White, 15% gloss, RAL 9003 / Tiger Drylac 049/11350 (standard)
- B = Black, 15% gloss, RAL 9005 / Tiger Drylac 044/90053
- S = Silver, 15% gloss, RAL 9006 / Tiger Drylac 049/90500
- F = Custom finished trim, specify RAL

Reflector Finish⁸

- W = White, 15% gloss, RAL 9003 / Tiger Drylac 049/11350 (standard with RLW)
- B = Black, 15% gloss, RAL 9005 / Tiger Drylac 044/90053 (standard with RLB)
- S = Silver, 15% gloss, RAL 9006 / Tiger Drylac 049/90500
- F = Custom finished trim, specify RAL

Options

- DC = Dual circuit
- EM = Emergency (remote)
- EW = End wall bracket

- To specify Indirect only, leave direct (optic, beam, power) codes blank.
- See pattern spec sheet.
- Individual fixture lengths less than 2' may require remote driver.
- Specify Lensed products to nearest 0.25". Specify Louvered and Tuneable White products in 6" increments for continuous light. Louver supplied in 6" increments, balance of the run will have recessed blank covers on ends.
- TW only available with RML/ROL for P2 and P3.
- See photometric data sheet for delivered lumens.
- See power supply page for details.
- See Tiger Drylac color chart: inter-lux.com/tiger

ProTools 60 Linear Direct/Indirect

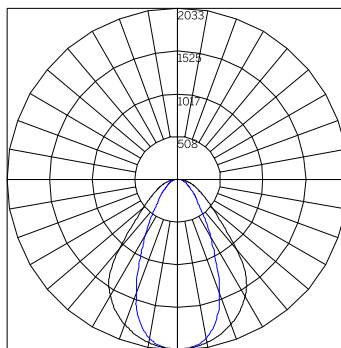
Wall / Mullion Mount - Direct Only

inter•lux

WG-60PTLDI-...-RML-80-...-W-W

Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	316	593	912	1343
	930	329	617	950	1399
	935	340	640	984	1465
	940	349	657	1010	1504
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.24	0.44	0.68	1.00
		CCT Multiplier			
		927	930	935	940
		0.96	1.00	1.04	1.06



BEAM ANGLE (0-180) = 51.7
BEAM ANGLE (90-270) = 81.8

ILLUMINANCE - 24" RML-80 P4 3000K

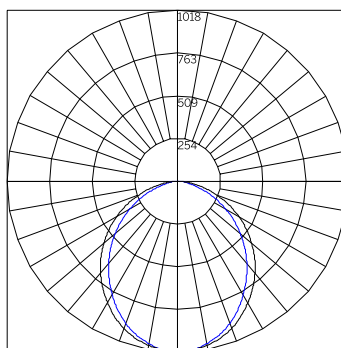
WG-60PTLDI-...-S-24-930-RML-80-P4-...-W-W¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	226	2.9
6	56	5.8
9	25	8.7
12	14	11.6
15	9	14.5
18	6	17.4
21	5	20.3
24	4	23.2
27	3	26.1
30	2	29.0

WG-60PTLDI-...-ROL-105-...-W-W

Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	289	543	834	1229
	930	301	565	869	1280
	935	312	585	900	1340
	940	320	601	925	1377
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.24	0.44	0.68	1.00
		CCT Multiplier			
		927	930	935	940
		0.96	1.00	1.04	1.06



BEAM ANGLE (0-180) = 97.2
BEAM ANGLE (90-270) = 109

ILLUMINANCE - 24" ROL-105 P4 3000K

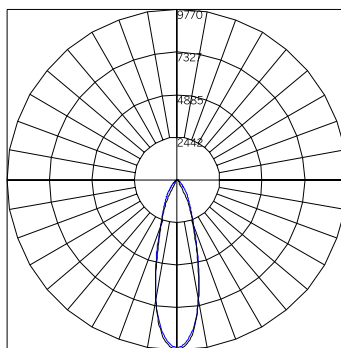
WG-60PTLDI-...-S-24-930-ROL-105-P4-...-W-W¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	113	6.8
6	28	13.6
9	13	20.4
12	7	27.2
15	5	34.0
18	3	40.8
21	2	47.6
24	2	54.4
27	1	61.3
30	1	68.1

WG-60PTLDI-...-RLW-35-...-W-W

Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	434	804	1212	1738
	930	448	828	1250	1792
	935	462	854	1288	1846
	940	476	879	1326	1900
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.25	0.46	0.70	1.00
		CCT Multiplier			
		927	930	935	940
		0.97	1.00	1.03	1.06



BEAM ANGLE (0-180) = 28.8
BEAM ANGLE (90-270) = 28.2

ILLUMINANCE - 24" RLW-35 P4 3000K

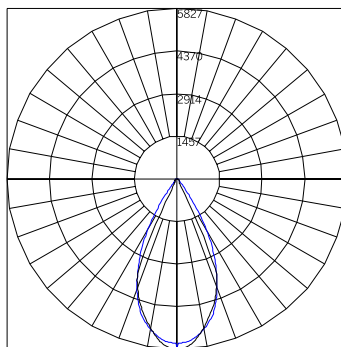
WG-60PTLDI-...-S-24-930-RLW-35-P4-...-W-W¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	1086	1.5
6	271	3.1
9	121	4.6
12	68	6.2
15	43	7.7
18	30	9.2
21	22	10.8
24	17	12.3
27	13	13.9
30	11	15.4

WG-60PTLDI-...-RLW-50-...-W-W

Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	443	820	1237	1773
	930	457	845	1276	1828
	935	471	872	1314	1883
	940	485	897	1353	1939
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.25	0.46	0.70	1.00
		CCT Multiplier			
		927	930	935	940
		0.97	1.00	1.03	1.06



BEAM ANGLE (0-180) = 51.7
BEAM ANGLE (90-270) = 47.3

ILLUMINANCE - 24" RLW-50 P4 3000K

WG-60PTLDI-...-S-24-930-RLW-50-P4-...-W-W¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	647	2.9
6	162	5.8
9	72	8.7
12	40	11.6
15	26	14.5
18	18	17.4
21	13	20.3
24	10	23.2
27	8	26.2
30	6	29.1

1 Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.
All lumen data shown is for Direct portion only; refer to Indirect photometric page for possible Direct configurations.

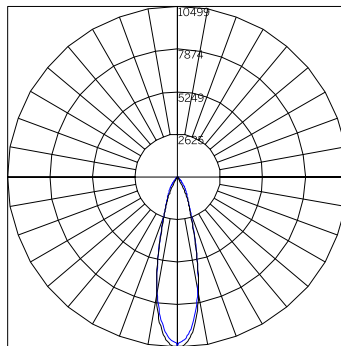
ProTools 60 Linear Direct/Indirect

Wall / Mullion Mount - Direct Only

inter•lux

WG-60PTLDI-...-RLB-35-...-W-B
Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	371	686	1034	1483
	930	382	707	1067	1529
	935	394	729	1099	1575
	940	406	750	1131	1621
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.25	0.46	0.70	1.00
		CCT Multiplier			
		927	930	935	940
		0.97	1.00	1.03	1.06



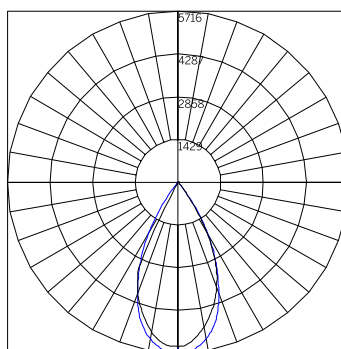
BEAM ANGLE (0-180) = 26.9
BEAM ANGLE (90-270) = 26.9

ILLUMINANCE - 24" RLB-35 P4 3000K
WG-60PTLDI-...-S-24-930-RLB-35-P4-...-W-B¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	1167	1.4
6	292	2.9
9	130	4.3
12	73	5.7
15	47	7.2
18	32	8.6
21	24	10.0
24	18	11.5
27	14	12.9
30	12	14.3

WG-60PTLDI-...-RLB-50-...-W-B
Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	442	818	1234	1769
	930	456	843	1273	1824
	935	470	870	1311	1879
	940	484	895	1349	1934
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.25	0.46	0.70	1.00
		CCT Multiplier			
		927	930	935	940
		0.97	1.00	1.03	1.06



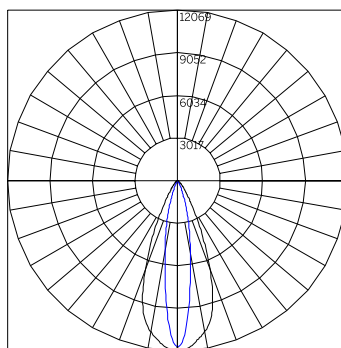
BEAM ANGLE (0-180) = 51.6
BEAM ANGLE (90-270) = 51.6

ILLUMINANCE - 24" RLB-50 P4 3000K
WG-60PTLDI-...-S-24-930-RLB-50-P4-...-W-B¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	635	2.9
6	159	5.8
9	71	8.7
12	40	11.6
15	25	14.5
18	18	17.4
21	13	20.3
24	10	23.2
27	8	26.1
30	6	29.0

WG-60PTLDI-...-REO-20x40-...-W-W
Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	408	755	1139	1632
	930	421	778	1174	1683
	935	434	802	1209	1734
	940	447	826	1245	1784
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.25	0.46	0.70	1.00
		CCT Multiplier			
		927	930	935	940
		0.97	1.00	1.03	1.06



BEAM ANGLE (0-180) = 17.8
BEAM ANGLE (90-270) = 42.2

ILLUMINANCE - 24" REO-20x40 P4 3000K
WG-60PTLDI-...-S-24-930-REO-20x40-P4-...-W-W¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	1341	0.9
6	335	1.9
9	149	2.8
12	84	3.7
15	54	4.7
18	37	5.6
21	27	6.6
24	21	7.5
27	17	8.4
30	13	9.4

1 Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.
All lumen data shown is for Direct portion only; refer to Indirect photometric page for possible Direct configurations.

ProTools 60 Linear Direct/Indirect

Wall / Mullion Mount - Direct Only

WG-60PTLDI-....TW-RML-80-...

Delivered Lumens Per Foot

		Power	
		P2 [6 W/ft]	P3 [10 W/ft]
CCT	2200	299	442
	4000	307	466

WG-60PTLDI-....TW-ROL-105-...

Delivered Lumens Per Foot

		Power	
		P2 [6 W/ft]	P3 [10 W/ft]
CCT	2200	274	405
	4000	281	426

PROTOOLS 60 LINEAR

UGR + FIXTURE EFFICIENCY

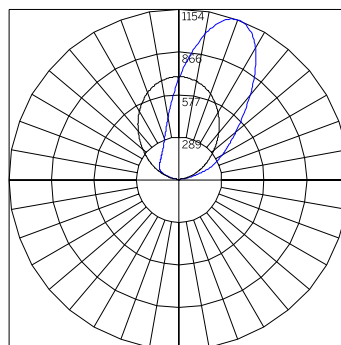
		UGR ¹			
		P1 [3W/ft]	P2 [6W/ft]	P3 [10W/ft]	P4 [15W/ft]
OPTIC - BEAM	RML-80	20.6	22.7	24.2	25.6
	ROL-105	23.9	26.1	27.6	29.0
	RLW-35	14.6	16.8	18.2	19.6
	RLW-50	13.6	15.8	17.3	18.6
	RLB-35	0.7	2.8	4.3	5.7
	RLB-50	12.9	15.1	16.6	21.7
	RNO-30	8.3	10.4	11.9	13.2

1 UGR value noted is the maximum UGR (crosswise) with 930 LEDs at noted Power level.

ProTools 60 Linear Direct/Indirect

Wall / Mullion Mount - Indirect Only

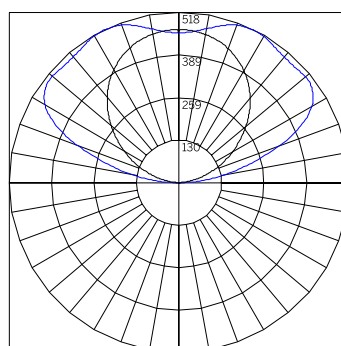
WG-60PTLDI-...-A-...-W Delivered Lumens Per Foot				
CCT	Power			
	P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
927	478	899	-	-
930	498	936	-	-
935	516	969	-	-
940	529	995	-	-
Power Multiplier				
	P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
	0.53	1.00	-	-
CCT Multiplier				
	927	930	935	940
	0.96	1.00	1.04	1.06



BEAM ANGLE (0-180) = 85.9
BEAM ANGLE (90-270) = 86

ILLUMINANCE - 24" ASYMMETRIC P2 3000K WG-60PTLDI-...-24-930-...-A-P2-...-W-W ¹		
Ceiling Offset [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	128	5.6
6	32	11.2
9	14	16.8
12	8	22.4
15	5	27.9
18	4	33.5
21	3	39.1
24	2	44.7
27	2	50.3
30	1	55.9

WG-60PTLDI-...-W-...-W Delivered Lumens Per Foot				
CCT	Power			
	P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
927	470	883	-	-
930	490	920	-	-
935	507	953	-	-
940	520	978	-	-
Power Multiplier				
	P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
	0.53	1.00	-	-
CCT Multiplier				
	927	930	935	940
	0.96	1.00	1.04	1.06



BEAM ANGLE (0-180) = 145.1
BEAM ANGLE (90-270) = 107.2

ILLUMINANCE - 24" WIDE P2 3000K WG-60PTLDI-...-24-930-...-W-P2-...-W-W ¹		
Ceiling Offset [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	58	19.1
6	14	38.2
9	6	57.3
12	4	76.4
15	2	95.5
18	2	114.6
21	1	133.7
24	1	152.8
27	1	171.9
30	1	191.0

¹ Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.
All lumen data shown is for Indirect portion only; refer to Direct photometric page for possible Indirect configurations.

ProTools 60 Linear Direct/Indirect

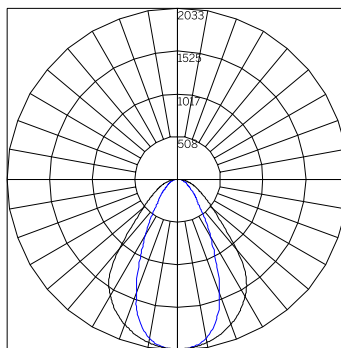
Wall / Mullion Mount - Direct Only

inter•lux

WG-60PTLDI-...-RML-80-...-W-W

Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	316	593	912	1343
	930	329	617	950	1399
	935	340	640	984	1465
	940	349	657	1010	1504
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.24	0.44	0.68	1.00
		CCT Multiplier			
		927	930	935	940
		0.96	1.00	1.04	1.06



BEAM ANGLE (0-180) = 51.7
BEAM ANGLE (90-270) = 81.8

ILLUMINANCE - 24" RML-80 P4 3000K

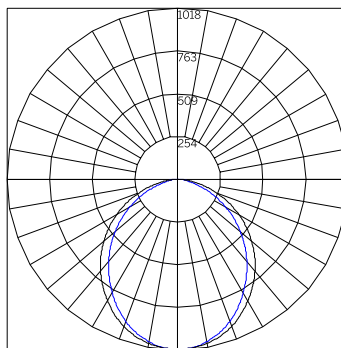
WG-60PTLDI-...-S-24-930-RML-80-P4-...-W-W¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	226	2.9
6	56	5.8
9	25	8.7
12	14	11.6
15	9	14.5
18	6	17.4
21	5	20.3
24	4	23.2
27	3	26.1
30	2	29.0

WG-60PTLDI-...-ROL-105-...-W-W

Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	289	543	834	1229
	930	301	565	869	1280
	935	312	585	900	1340
	940	320	601	925	1377
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.24	0.44	0.68	1.00
		CCT Multiplier			
		927	930	935	940
		0.96	1.00	1.04	1.06



BEAM ANGLE (0-180) = 97.2
BEAM ANGLE (90-270) = 109

ILLUMINANCE - 24" ROL-105 P4 3000K

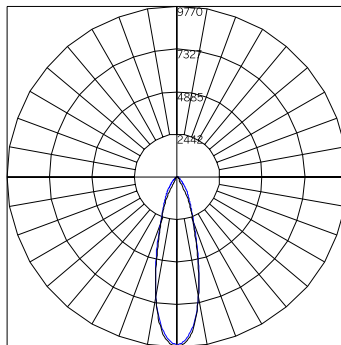
WG-60PTLDI-...-S-24-930-ROL-105-P4-...-W-W¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	113	6.8
6	28	13.6
9	13	20.4
12	7	27.2
15	5	34.0
18	3	40.8
21	2	47.6
24	2	54.4
27	1	61.3
30	1	68.1

WG-60PTLDI-...-RLW-35-...-W-W

Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	434	804	1212	1738
	930	448	828	1250	1792
	935	462	854	1288	1846
	940	476	879	1326	1900
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.25	0.46	0.70	1.00
		CCT Multiplier			
		927	930	935	940
		0.97	1.00	1.03	1.06



BEAM ANGLE (0-180) = 28.8
BEAM ANGLE (90-270) = 28.2

ILLUMINANCE - 24" RLW-35 P4 3000K

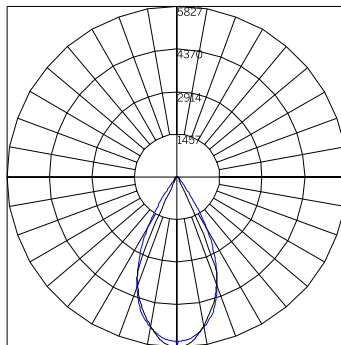
WG-60PTLDI-...-S-24-930-RLW-35-P4-...-W-W¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	1086	1.5
6	271	3.1
9	121	4.6
12	68	6.2
15	43	7.7
18	30	9.2
21	22	10.8
24	17	12.3
27	13	13.9
30	11	15.4

WG-60PTLDI-...-RLW-50-...-W-W

Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	443	820	1237	1773
	930	457	845	1276	1828
	935	471	872	1314	1883
	940	485	897	1353	1939
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.25	0.46	0.70	1.00
		CCT Multiplier			
		927	930	935	940
		0.97	1.00	1.03	1.06



BEAM ANGLE (0-180) = 51.7
BEAM ANGLE (90-270) = 47.3

ILLUMINANCE - 24" RLW-50 P4 3000K

WG-60PTLDI-...-S-24-930-RLW-50-P4-...-W-W¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	647	2.9
6	162	5.8
9	72	8.7
12	40	11.6
15	26	14.5
18	18	17.4
21	13	20.3
24	10	23.2
27	8	26.2
30	6	29.1

1 Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.
All lumen data shown is for Direct portion only; refer to Indirect photometric page for possible Direct configurations.

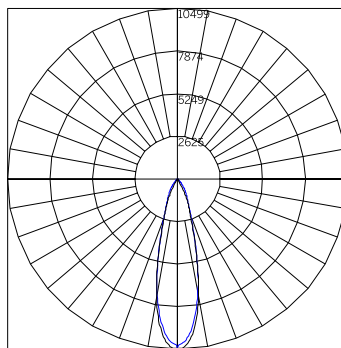
ProTools 60 Linear Direct/Indirect

Wall / Mullion Mount - Direct Only

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WG-60PTLDI-...-RLB-35-...-W-B
Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	371	686	1034	1483
	930	382	707	1067	1529
	935	394	729	1099	1575
	940	406	750	1131	1621
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.25	0.46	0.70	1.00
		CCT Multiplier			
		927	930	935	940
		0.97	1.00	1.03	1.06



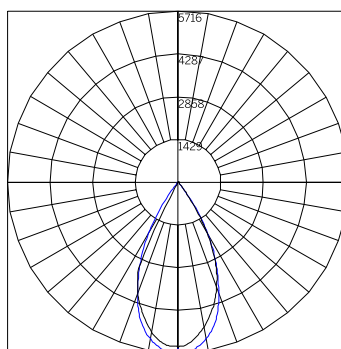
BEAM ANGLE (0-180) = 26.9
BEAM ANGLE (90-270) = 26.9

ILLUMINANCE - 24" RLB-35 P4 3000K
WG-60PTLDI-...-S-24-930-RLB-35-P4-...-W-B¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	1167	1.4
6	292	2.9
9	130	4.3
12	73	5.7
15	47	7.2
18	32	8.6
21	24	10.0
24	18	11.5
27	14	12.9
30	12	14.3

WG-60PTLDI-...-RLB-50-...-W-B
Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	442	818	1234	1769
	930	456	843	1273	1824
	935	470	870	1311	1879
	940	484	895	1349	1934
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.25	0.46	0.70	1.00
		CCT Multiplier			
		927	930	935	940
		0.97	1.00	1.03	1.06



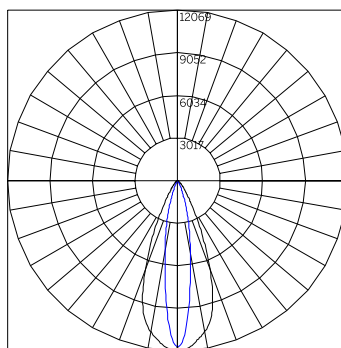
BEAM ANGLE (0-180) = 51.6
BEAM ANGLE (90-270) = 51.6

ILLUMINANCE - 24" RLB-50 P4 3000K
WG-60PTLDI-...-S-24-930-RLB-50-P4-...-W-B¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	635	2.9
6	159	5.8
9	71	8.7
12	40	11.6
15	25	14.5
18	18	17.4
21	13	20.3
24	10	23.2
27	8	26.1
30	6	29.0

WG-60PTLDI-...-REO-20x40-...-W-W
Delivered Lumens Per Foot

		Power			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
CCT	927	408	755	1139	1632
	930	421	778	1174	1683
	935	434	802	1209	1734
	940	447	826	1245	1784
		Power Multiplier			
		P1 [3 W/ft]	P2 [6 W/ft]	P3 [10 W/ft]	P4 [15 W/ft]
		0.25	0.46	0.70	1.00
		CCT Multiplier			
		927	930	935	940
		0.97	1.00	1.03	1.06



BEAM ANGLE (0-180) = 17.8
BEAM ANGLE (90-270) = 42.2

ILLUMINANCE - 24" REO-20x40 P4 3000K
WG-60PTLDI-...-S-24-930-REO-20x40-P4-...-W-W¹

Mounting Height [ft]	Illuminance [fc at nadir]	Beam Width [ft]
3	1341	0.9
6	335	1.9
9	149	2.8
12	84	3.7
15	54	4.7
18	37	5.6
21	27	6.6
24	21	7.5
27	17	8.4
30	13	9.4

1 Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.
All lumen data shown is for Direct portion only; refer to Indirect photometric page for possible Direct configurations.

ProTools 60 Linear Direct/Indirect

Wall / Mullion Mount - Direct Only

WG-60PTLDI-....TW-RML-80-...

Delivered Lumens Per Foot

		Power	
		P2 [6 W/ft]	P3 [10 W/ft]
CCT	2200	299	442
	4000	307	466

WG-60PTLDI-....TW-ROL-105-...

Delivered Lumens Per Foot

		Power	
		P2 [6 W/ft]	P3 [10 W/ft]
CCT	2200	274	405
	4000	281	426

PROTOOLS 60 LINEAR

UGR + FIXTURE EFFICIENCY

		UGR ¹			
		P1 [3W/ft]	P2 [6W/ft]	P3 [10W/ft]	P4 [15W/ft]
OPTIC - BEAM	RML-80	20.6	22.7	24.2	25.6
	ROL-105	23.9	26.1	27.6	29.0
	RLW-35	14.6	16.8	18.2	19.6
	RLW-50	13.6	15.8	17.3	18.6
	RLB-35	0.7	2.8	4.3	5.7
	RLB-50	12.9	15.1	16.6	21.7
	RNO-30	8.3	10.4	11.9	13.2

1 UGR value noted is the maximum UGR (crosswise) with 930 LEDs at noted Power level.

Linear - Constant Current driver information

Please refer to driver manufacturer's website for current data sheets and wiring guidelines.

E1 = EldoLED 0.1% dimming, 0-10V (120-277V) [spec sheet](#) [30W](#) | [75W](#)

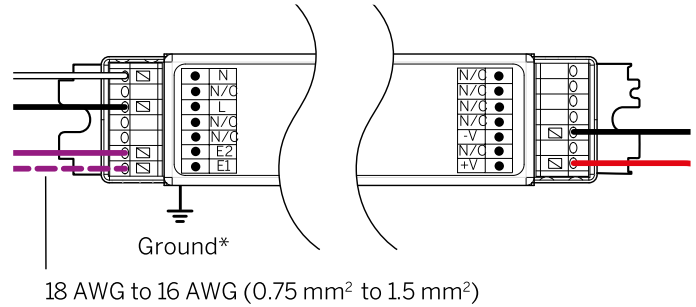
30W Wiring Diagram:



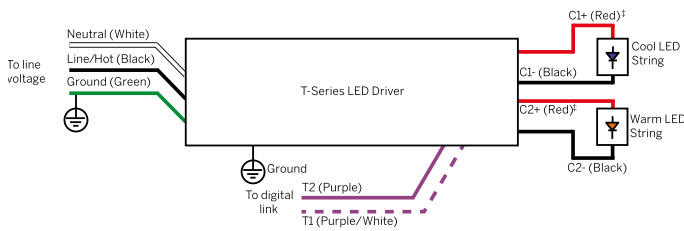
75W Wiring Diagram:



L1 = Lutron 1% dimming, Ecosystem (120-277V) [spec sheet](#)



TQ = T-Series for Lutron Quantum 0.1% (120-277V)
(Tunable White Only) [spec sheet](#)



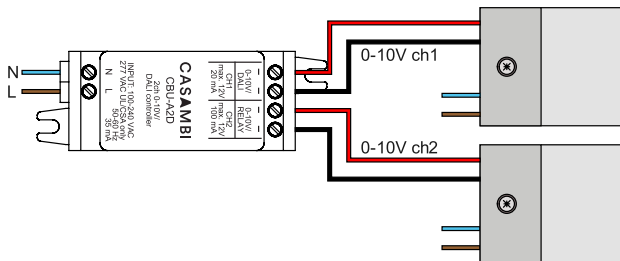
[†] C1+ and C2+ are electrically connected inside the driver. This supports the use of common anode loads.

DALI = EldoLED Dali DT8 0.1% (120-277V) [spec sheet](#)



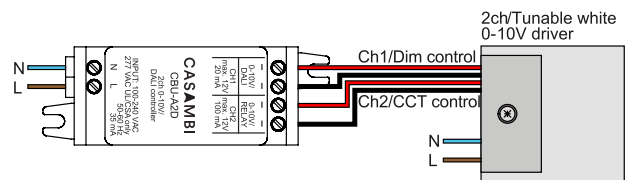
BT = Wireless CAS – Casambi (Must be specified with E1 or DALI) [spec sheet](#)

BT + E1



BT + DALI = TW

DALI Driver



Emergency for Constant Current

Ordering Part #s:

EM-560-10024 (spec sheet link): Iota Constant Power LED Emergency Driver ILB-CP07-HE-A, Dual Flex, 7W, 10-60Vf range, 120/277V, UL924. 90 minute EM Operation, 0-55°C Operating Temp. High Efficiency (CEC compliant). Dimensions: (L) 13.0" x (W) 2.2" x (H) 1.25" (mounting center 12.6")

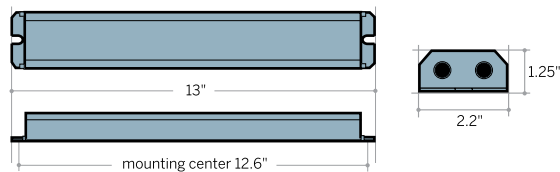
EM-560-10022 (spec sheet link): Iota Constant Power LED Emergency Driver ILB-CP12-A, Dual Flex, 12W, 10-60Vf range, 120/277V, UL924. 90 minute EM Operation, 0-55°C Operating Temp. Dimensions: (L) 13.3" x (W) 2.375" x (H) 1.5" (mounting center 12.75")

The EM drivers for constant current fixtures are Constant Power, which deliver a consistent output wattage to the LED load while operating in the emergency mode, for a minimum of 90 minutes operation.

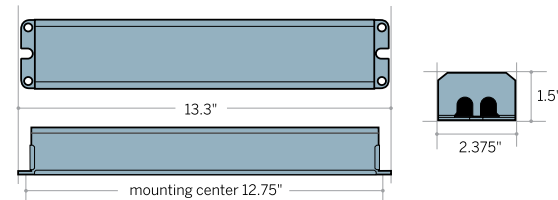
Considerations:

- A. Since the LED engine gets a constant wattage, it illuminates in direct proportion to the wattage, or power, that it is given. If the wattage remains the same, illumination levels also remain the same.
- B. The fixtures that are to be powered in EM mode, require a dedicated Normal power driver (that will be bypassed while in EM mode).
- C. The Constant Power EM driver's wattage needs to be equal or slightly lower* than the total nominal wattage of the fixture(s) being powered, and they need to be feed from a dedicated normal power driver. *If the CP EM driver's wattage were to be higher, the fixture could overheat while in EM, since it would be getting a higher current than in normal power operation.
- D. The fixtures' forward voltage needs to be in the 10-60Vf range
- E. The delivered lumens while in EM mode, will be proportional to the wattage they will be getting while in EM mode, divided by nominal wattage in normal power
- F. The more fixtures you add (up to the maximum forward voltage allowed per output), the less light output you will get from them while in EM mode.

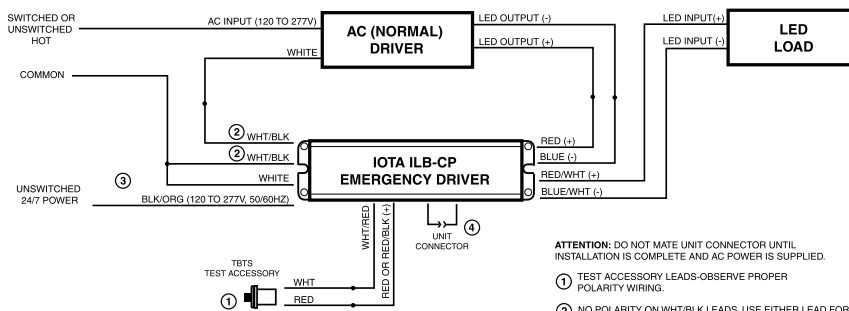
EM-560-10024



EM-560-10022



Constant Power (CP) EM driver Typical Wiring Diagram



WIRING THE A.C. INPUT

- A. The CP EM driver and the Normal power driver MUST be on the same branch circuit.
- B. The CP EM Driver requires an unswitched A.C. power source of 120 to 277 VAC, 50/60Hz; therefore when used with switched fixtures, the ILB input must be wired ahead of the switch.

ATTENTION: DO NOT MATE UNIT CONNECTOR UNTIL INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED.

- ① TEST ACCESSORY LEADS-OBSERVE PROPER POLARITY WIRING.
- ② NO POLARITY ON WHT/BLK LEADS. USE EITHER LEAD FOR CONNECTION TO BUILDING COMMON (SWITCHED OR UNSWITCHED) AND OTHER FOR CONNECTION TO AC DRIVER.
- ③ CONNECT UNSWITCHED POWER. IF A SINGLE BUILDING COMMON IS PRESENT, CONNECT THE WHITE WIRE TO THE COMMON. IF A SEPARATE UNSWITCHED CONDUCTOR FEED IS PRESENT, CONNECT THE WHITE LEAD TO THE COMMON FROM THE UNSWITCHED FEED.
- ④ MATE UNIT CONNECTOR AFTER INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED

$$\text{Typical Forward Voltage (Vf)} = \frac{\text{Nominal LED Power (W)}}{\text{Nominal LED Driving Current (mA)}}$$

$$\text{EM Current Level (mA)} = \frac{\text{EM Driver Constant Power (W)}}{\text{Typical Forward Voltage (Vf)}}$$

$$\text{EM Delivered Lumens (lm)} = \frac{\text{Nominal LED Power (W)}}{\text{EM Driver Constant Power (W)}} \times \text{Normal Power Delivered Lumens (lm)}$$

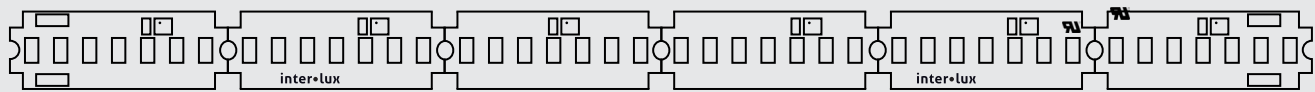
WARNING: EM Current Level must be less than or equal to the nominal current level to prevent fixture from overheating in EM mode.

EM from a Generator / EM breaker panel: When powering fixtures from an EM generator or EM breaker panel, the driver operates exactly the same way as it does when in normal power mode, and the light output is not affected.

Considerations:

- A. The EM circuit needs to be sized-up to be able to power the max input current of the driver at the appropriate AC input voltage (not the driver's rated wattage), regardless of the connected load.
- B. If the driver is integral, the line voltage N and EM power drops coming into the fixture need to be isolated from each other / cannot be in the same conduit.

CC1.3 Static White LED Specification



Advantages

- Same LED technology used throughout all Whitegoods products for color and performance consistency
- Multiple wattages and lumen output for maximum flexibility within any application
- Four (4) standard color temperatures from 2700K-4000K; non-standard available
- High efficiency design delivers more lumens per watt
- Tested to LM80 standards
- 5-year warranty

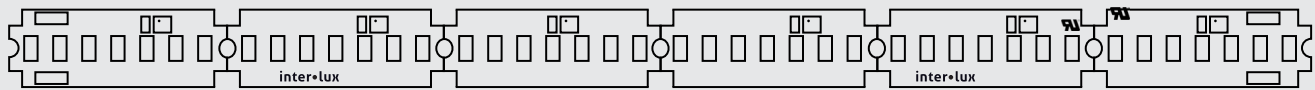
Technical Data

- form linear
- power (W/ft) 1.5W, 3.1W, 6.2W, 10W, 15W
- supply type Constant Current
- color rendering index Ra > 90
- MacAdam 3 step
- viewing angle (°) 120
- LED (SMD) quantity (per foot) 64
- PCB substrate FR4
- lifetime–L70 (h) 50,000
- working temperature -40°C - 100°C

Power (w/ft)	CCT (k)	Lum.Flux (lm/ft)	lm/watt
1.5	2700	276	180
1.5	3000	289	189
1.5	3500	299	195
1.5	4000	302	197
3.1	2700	535	174
3.1	3000	557	181
3.1	3500	577	188
3.1	4000	592	193
6.2	2700	1005	162
6.2	3000	1046	168
6.2	3500	1084	174
6.2	4000	1113	179
10	2700	1545	155
10	3000	1609	161
10	3500	1667	167
10	4000	1712	171
15	2700	2276	152
15	3000	2370	159
15	3500	2482	166
15	4000	2549	170

Conformal coated boards for damp and wet location applications are available.

CC1.3 Tunable White LED Specification



Advantages

- Same LED technology used throughout all Whitegoods products for color and performance consistency
- Multiple wattages and lumen output for maximum flexibility within any application
- Tuneable range of color temperatures from 2200K to 4000K
- Flicker free dimming
- High efficiency design delivers more lumens per watt
- Tested to LM80 standards
- 5-year warranty

Technical Data

- form linear
- power (W/ft) 1.5W, 3W, 6.3W, 9.7W, 14.6W
- supply type Constant Current
- color rendering index Ra > 80
- MacAdam 3 step
- viewing angle (°) 120
- LED (SMD) quantity (per foot) 64
- PCB substrate FR4
- lifetime–L70 (h) 50,000
- working temperature -40°C - 100°C

Power (w/ft)	CCT (k)	Lum.Flux (lm/ft)	lm/watt
1.5	2200K – 4000K	152 – 160	205 – 216
3	2200K – 4000K	276 – 290	182 – 192
6.3	2200K – 4000K	507 – 520	162 – 166
9.7	2200K – 4000K	749 – 789	154 – 162
14.6	2200K – 4000K	1066 – 1122	146 – 154



by Signify

Garage & Canopy

SoftView

SVPG with comfort optics



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

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lumens: _____ Qty: _____

Notes: _____

Ordering guide

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

Luminaire	Configuration (nom. lumens)	Color Temp	Distribution	Mounting	Voltage	Options				Finish
						Dimming Controls ^{3,4}	Sensing ⁵	Electrical	Emergency ¹⁰	
SVPG										
SVPG SoftView Parking Garage	A01 ^{10, 15} 2,400	830 80CRI 3000K	T1R Type 1 Rectangular	SUR Surface Mount / indirect pendant Mount, Normal vibration rated (pendant and junction box by others)	120 120V	none leave blank (0-10V dimming driver standard)	none leave blank	Fusing ⁹ none leave blank	none leave blank	BZ Bronze
	A02 ^{10, 15} 4,100	840 80CRI 4000K	T3A ¹ Type 3 Asymmetric		208 208V			FS1 ⁹ Single Fuse (120V, 277V, or 347V)	EM ^{2, 8, 10, 14} UL 924 Listed Emergency Battery Pack (0°C to +40°C / 32°F to +104°F)	MG Medium Gray
	A03 ^{10, 15} 6,000		5RD Type 5 Round		240 240V	DLEA ^{2,3,4,6,10} Dimming Leads Externally Accessible (controls by others)		FS2 ⁹ Double Fuse (208V, 240V, or 480V)		WH White
	A04 ^{10, 15} 8,000	750 ¹² 70CRI 5000K	5CD Type 5 Concentrated Downlight	SBO Surface Mount, Bridge / Overpass vibration rated	277 277V			FS3 ⁹ Double Fuse Canadian double pole (208V, 240V, or 480V)	EC ^{8, 10, 14} UL 924 Listed Emergency Battery Pack, Cold Rated (-20°C to +40°C / -4°F to +104°F)	OC ¹¹ Optional Color (specify optional color or RAL, contact factory)
	A05 ¹⁵ 9,500			PEN Direct Pendant Mount, Bridge / Overpass vibration rated	347 ¹³ 347V	SRDR ^{3,8,14,16} SR Driver connected to SR Receptacle (Zhaga 4-pin)				SC ¹¹ Special Color (must supply color chip, requires factory quote)
	A06 ^{1,10, 15} 6,500				480 ¹³ 480V					
	A07 ^{1,10, 15} 8,200				UNV Universal 120-277V					
	A08 ^{1, 15} 10,000			TRN ^{2,15} Trunnion Mount (must also order separate line item TM mounting kit, see Accessories)	HVU ¹³ Universal 347- 480V	BL20 ^{3,4,5,10,13} Bi-level set at 20% dimming	MW ^{5, 7, 13} Microwave Sensor	blank SP1 Surge Protector 10kV / 10kA (standard)	ER100 ¹⁵ UL924 Listed Emergency relay to bypass WIAP wireless dimming sensor,integral	
	A09 ^{1,13, 15} 11,400					BLBT ^{3,4,5,10,13} Bi-level with motion sensor, Bluetooth programming, set at 20% dimming	L2 ⁵ PIR Sensor, #2 lens L3 ⁵ PIR Sensor, #3 lens L7 ⁵ PIR Sensor, #7 lens (All sensing is factory customizable, contact factory ¹¹)	SP2 Surge Protector 20kV / 10kA (option)		
	A10 ^{1,13, 15} 13,400									
	A11 ^{1,13, 15} 14,800				WAL Wall Mount (must also order separate line item WM mounting kit, see Accessories)		WIAP ^{3,5,8,14,15} Wireless Interact (includes SR driver and SR receptacle - do NOT select SRDR)	LW ⁵ Low (7'-15' mounting height) sensor, White color housing HW ⁵ High (15'-40' mounting height) sensor, White color housing		

- T3A not available with A06, A07, A08, A09, A10 or A11 configurations due to thermal and fit restrictions.
- TRN not available with combination of both DLEA and EM options due to fit restrictions; TRN is available with each individually (either DLEA or EM).
- Choose only 1 Dimming Controls option: either DLEA or SRDR or BL20 or BLBT or WIAP.
- 0-10V dimming driver standard.
- BL20 must be combined with MW Microwave Sensor. BLBT must be combined with Sensing option L2, L3 or L7. WIAP must be combined with Sensing option LW or HW. Choose only 1: either BL20-MW or BLBT-L# or WIAP-xW.
- DLEA luminaire has 0-10V dimming wires exiting the luminaire for dimming controls by others.
- MW available with 120V, 208V, 240V, 277V, UNV or 347V only.

- Available with 120V, 208V, 240V, 277V or UNV only.
- Must specify applicable specific input voltage, not available with UNV or HVU.
- Choose either Emergency option EM or EC cold. EM only available with A01, A02, A03 or A06 and EC cold only available with A01, A02, A03, A04, A06 or A07 due to thermal restrictions. EC cold not available with DLEA or BL20-MW or BLBT-L# due to fit restrictions; EM is available with DLEA or BL20-MW or BLBT-L# (does fit).
- Must contact factory prior to ordering - these items are ETO Specials.
- Extended lead times apply. Contact factory for details.
- A09, A10, A11 each have 2 drivers therefore due to fit restrictions not available with 347V, 480V, HVU, BL20-MW, or BLBT.

- SRDR or WIAP not available with Emergency options EM or EC cold due to thermal and fit restrictions.
- ER100 suitable for use in 40C ambient with A01, A02, A03, A04, A06 or A07 (72W max.); suitable for use in 35C ambient with A05 or A08 (90W max.); not available above 90W: no A09, A10 or A11. ER100 must be installed in conjunction with a UL 1008 device (such as a transfer switch at the electrical panel) and only for use with Wireless Interact dimming sensor (WIAP-xW). ER100 is 120V-277V. For PI Detection with TRN Trunnion - ETO Special, must be wired at factory.
- When ordering SRDR, controller (by others) to be plugged into socket must be SR compatible (see Specifications for more details). Consult factory for lead time.



SVPG SoftView

Garage & canopy luminaire

Accessories* (ordered separately, field installed)

ES	External House Side Shield (designed for use with Type 3, reduces light output by approx. 15% on average)	SVPG-G2-TM-(F)	Trunnion Mount kit (can ONLY use when TRN Trunnion Mount product is ordered)	BXC	Bird excluding coil (fits on all mounting options) (negligible uplight impact)
WG	Wire Guard	SVPG-G2-WM-(F)	Wall Mount kit (can ONLY use when WAL Wall Mount product is ordered)	BXK	Bird excluding spikes (fits on Pendant, Trunnion, and Wall mounts only) (negligible uplight impact)
IRT9015	Handheld remote for grouping and configuration of Wireless Interact WIAP (at least 1 required per site or use the Interact Pro App).			BXS	Bird excluding shroud (fits on Pendant mount only) (negligible uplight impact)

* Consult Signify to confirm whether specific accessories are BAA-compliant.

(F) = specify finish

Controls Matrix

Dimming Controls & Sensing (where applicable)	Fusing: FS1, FS2, or FS3	Surge Protection: standard SP1 or optional SP2	Emergency: none or EM ^{2, 10, 14}	Emergency: or EC ^{10, 14}
Only choose one of the dimming options. ^{3, 5}				
none	yes	yes	yes	yes
BL20 ¹⁰ -MW	yes	yes	yes	no
BLBT ¹⁰ -L2	yes	yes	yes	no
BLBT ¹⁰ -L3	yes	yes	yes	no
BLBT ¹⁰ -L7	yes	yes	yes	no
DLEA ^{2, 10}	yes	yes	yes – except DLEA and EM NOT available with TRN ² Trunnion	no
SRDR	yes	yes	yes	no
WIAP ¹⁴ -LW	yes	yes	no	no
WIAP ¹⁴ -HW	yes	yes	no	no

Compatibility Matrix

Configuration	Distribution		Dimming Controls & Sensing (where appl.)			Emergency		
	T1R or 5RD or 5CD	T3A ¹	Only choose one of the dimming options. ^{3, 6}			EM ¹⁰	or EC ¹⁰	ER100 ¹⁵ (only for use with WIAP-xW)
			none or DLEA or SRDR	BL20 ¹³ -MW or BLBT ¹³ -L#	WIAP-xW			
A01 ^{10, 15}	yes	yes	yes	yes	yes	yes	yes	yes*
A02 ^{10, 15}	yes	yes	yes	yes	yes	yes	yes	yes*
A03 ^{10, 15}	yes	yes	yes	yes	yes	yes	yes	yes*
A04 ^{10, 15}	yes	yes	yes	yes	yes	no	yes	yes*
A05 ¹⁵	yes	yes	yes	yes	yes	no	no	yes*
A06 ^{1, 10, 15}	yes	no	yes	yes	yes	yes	yes	yes*
A07 ^{1, 10, 15}	yes	no	yes	yes	yes	no	yes	yes*
A08 ^{1, 15}	yes	no	yes	yes	yes	no	no	yes*
A09 ^{1, 13, 15}	yes	no	yes	no	yes	no	no	no
A10 ^{1, 13, 15}	yes	no	yes	no	yes	no	no	no
A11 ^{1, 13, 15}	yes	no	yes	no	yes	no	no	no

*NOTE: Please see Ordering guide footnote 15 for ER100 ambient temperature suitability with various lumen / wattage configurations A01-A08.

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

SVPG SoftView

Garage & canopy luminaire

LED wattage and lumen values

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

Emergency mode

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

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

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

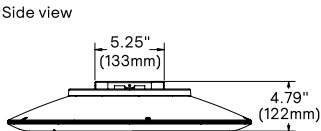
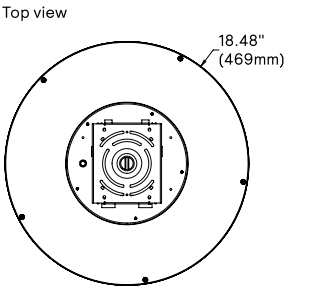
* For emergency **EM** and **EC** options, published values are based on approximate averages across all CCTs and all distributions assuming 15 foot mounting height. It is highly recommended to confirm with a photometric layout that emergency performance meets your applicable ordinances.

SVPG SoftView

Garage & canopy luminaire

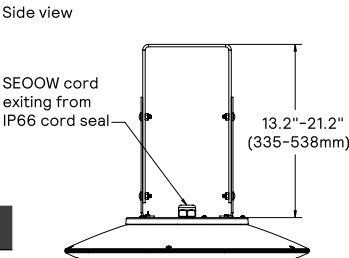
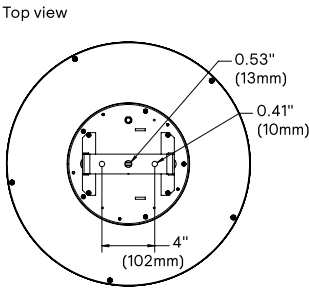
Dimension drawings

Surface / Indirect Pendant mount

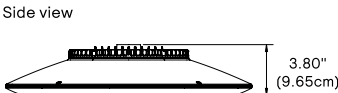
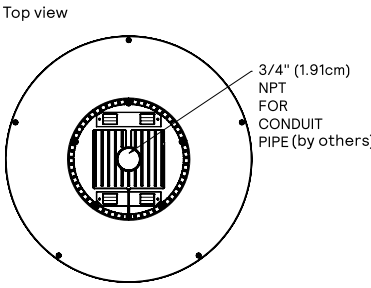


SoftView LED	Weight
A01-A05 Luminaire	9.1 lbs (4.1 Kg)
A06-A11 Luminaire	10.3 lbs (4.7 Kg)
Luminaire with EM	11.6 lbs (5.3 Kg)
Luminaire with EC	15.1 lbs (6.8 Kg)

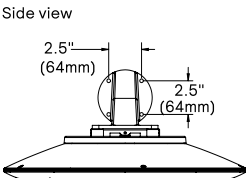
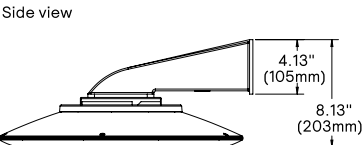
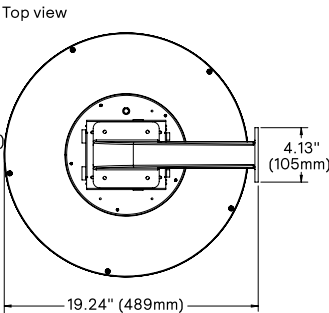
Trunnion mount



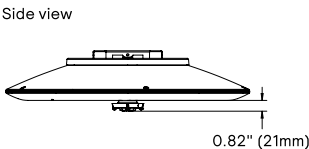
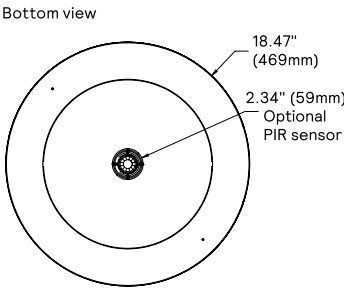
Direct Pendant mount



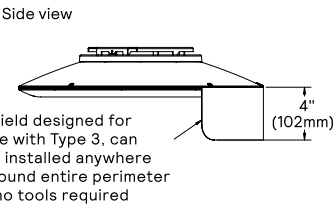
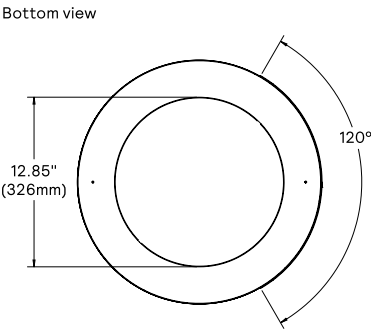
Wall mount



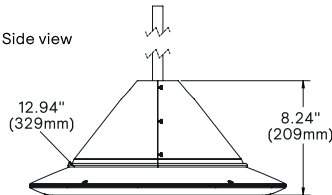
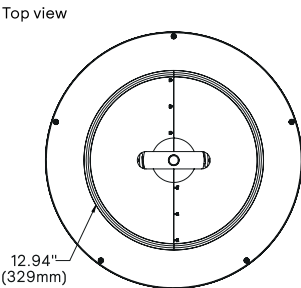
Motion response controls



External house side shield



BXS Bird excluding shroud



SVPG SoftView

Garage & canopy luminaire

Specifications

Construction

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

IP Rating

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

IK Rating

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

LED Thermal management

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

Light engine

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

Optical system

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

Electrical

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

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

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

Mounting

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

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

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

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

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

Control Options

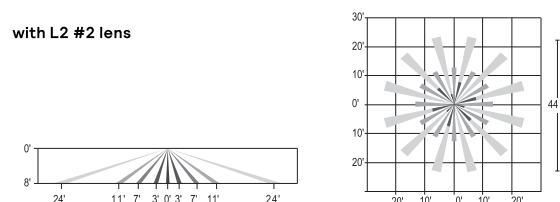
Note: other controls can be integrated as ETO Specials – contact factory.

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

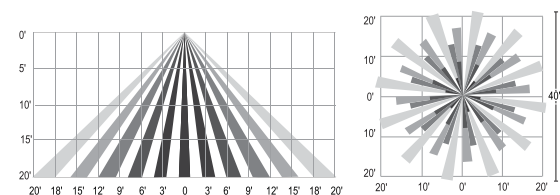
BLBT: Motion Response luminaires include a WattStopper passive infrared (PIR) motion sensor, standby power is 0.5 watts. Factory pre-programmed standard settings include a dimming level down to 20% and time delay of 10 minutes with no stand-by period. This means when no motion is detected for 10 minutes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

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

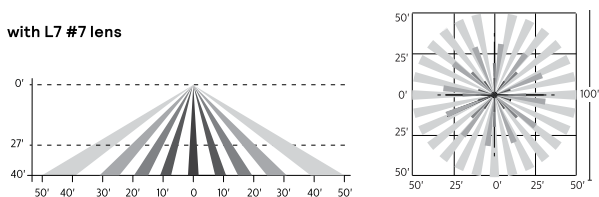
with L2 #2 lens



with L3 #3 lens



with L7 #7 lens



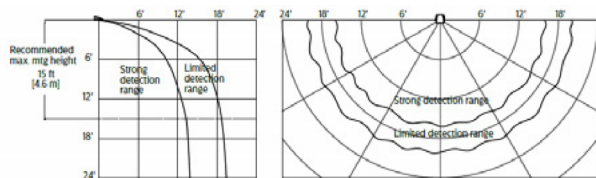
SVPG SoftView

Garage & canopy luminaire

Specifications

Controls Options

BL20-MW: Motion response luminaires include a high frequency microwave sensor, 5.8GHz+/- 75MHz microwave ISM continuous wave band with 360° coverage area, <0.5 mW transmitting power and <1 W standby power. Microwave motion sensor designed to detect motion through the lower lens so it is hidden inside the luminaire without any protruding components. Sensor allows energy savings and meeting code requirements without compromising comfort and aesthetics. Factory pre-programmed standard settings include a dimming level down to 20% and time delay of 3 minutes with no stand-by period. This means when no motion is detected for 3 minutes the sensor will dim the luminaire down to 20% of total lumen output. When motion is detected the luminaire returns to 100% full light output and will remain on full power for 3 minutes default prior to dimming back to low when no motion is detected. Other dimming levels, holding times and stand-by periods are possible – ETO Specials, contact factory. Microwave sensor's photocell is disabled since the sensor is embedded inside the luminaire (therefore daylight harvesting is not possible).



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

WIAP with LW or HW sensor: Scalable connected sensor with integral occupancy and daylight sensing, supports wireless mesh connectivity. Sensor works in the Foundation mode when configured without a gateway or in an Interact Advanced mode if a compatible gateway (can be added later) is used. Interact offers an App, a portal and a broad portfolio of Interact-ready Indoor and Outdoor luminaires, lamps and retrofit kits all working on the same system. Startup is implemented via Interact Pro App (available in iOS® or Android®) and Bluetooth® connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup. Setup with the gateway requires wired Internet access to the gateway. Prepare project configuration steps remotely and use IRT9015 remote accessory (ordered separately) or the App on-site to identify and group devices together. WIAP includes SR driver and SR receptacle. Daylight harvesting supported through dimming – activated via the Interact App. Sensors IP66 rated.

Compatible with the following (ordered separately):

- Battery powered IP65 presence sensor OCC sensor IA CM IP65 WH
- Battery powered IP65 presence & daylight sensor OCC-DLsensor IA CM IP65 WH

For more information on Interact visit:

www.interact-lighting.com/interactproscalablesystem

ER100 (use with WIAP only): Optional internal emergency relay. When normal AC power is lost, relay bypasses WIAP wireless dimming sensor and forces luminaire to full light output.

Power Sensing (Factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.

Power Interruption Detection (Field option*) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output, consult your local authority for UL924 applicability. *NOTE: For ER100 Power Interruption Detection when TRN Trunnion is also ordered – must contact factory prior to ordering, ETO Special that must be wired at the factory.

For more information on ER100 visit:

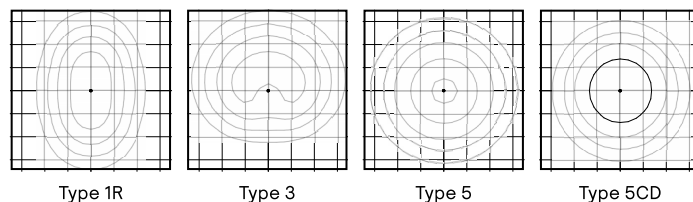
<https://www.assets.signify.com/is/content/Signify/Assets/philips-lighting/united-states/20210507-er-100-specification.pdf>

Emergency battery backup

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

Optical Distributions

Based on 10' mounting height



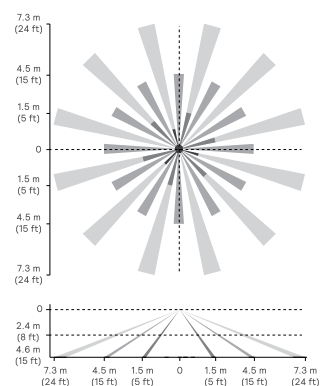
Type 1R

Type 3

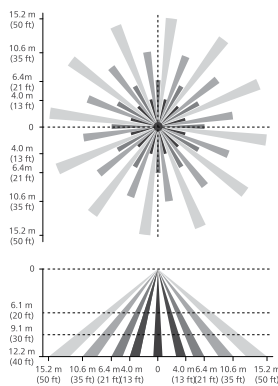
Type 5

Type 5CD

LW low sensor



HW high sensor



Note: The beam patterns shown are intended solely as a general guide and are not to scale. Sensing capabilities and coverage area depend on many factors including the size, speed and direction of travel of persons and vehicles; sensor mounting height; environmental and site conditions; etc.

SVPG SoftView

Garage & canopy luminaire

Specifications

Finish

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

Hardware and Seals

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

LED Products Manufacturing Standard

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

LED Luminaire Useful Life

Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, exclusive Signify System Reliability Tool, Advance driver data and LED manufacturer LM-80/TM-21 data, expected to reach 100,000 + hours with L70 lumen maintenance @ 25°C. Luminaire Useful Life accounts for LED lumen maintenance AND all of these additional factors including: LED color shift, LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion.

Vibration resistance

Luminaire meets the ANSI C136.31-2018 specifications for Normal or Bridge / Overpass applications, as noted in Ordering guide on page 1 and in the Specifications text for each Mounting, tested by independent lab over 100,000 cycles in all three axes.

Certifications and Compliance

cULus Listed for Canada and U.S. to the UL 1598 and UL8750 standards, suitable for Wet Locations. Suitable for use in ambients from -40°C (-40°F) to +50°C (+122°F) up to A09, to +40°C (+104°F) for A10 and A11. The quality systems of the facility where manufactured have been registered by UL to the ISO 9001 series standards. Emergency Battery Backup options (**EM** and **EC**) are tested and listed emergency lighting devices per UL 924 and CSA 22.2 No. 141. SoftView configurations are DesignLights Consortium qualified, consult DLC QPL Qualified Products List for more details. Controls options enable compliance with Outdoor lighting energy codes including ASHRAE 90.1, California Title 24, and IECC.

Limited Warranty

5-year limited warranty. See signify.com/warranties for complete details and exclusions.

Predicted Lumen Depreciation Data

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

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

Buy American Act of 1933 (BAA):

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



BSS750 | WEDGE

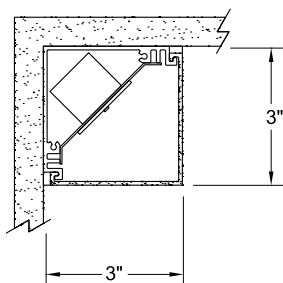
3" square corner mount LED luminaire

Project: _____ Type: _____



Highlighted fields denote QuickShip Options. See complete 7-Day QuickShip Terms and Conditions available at www.bartcolighting.com/quickship-products/. Purchase order must reference "QuickShip".

SECTION



PERFORMANCE

Note: All data reflects fixtures with 3500K LEDs

NOMINAL LENGTH	OUTPUT	LUMENS/ft.	WATTS/ft.	LUMINAIRE LUMENS	EFFICACY (LPW)
4'	L: low	750	5.6	2275	134
	R: regular	970	8.6	3604	113
	H: high	1275	12.7	4736	101

FEATURES

The BSS750 is a corner mount, linear LED luminaire well suited for perimeter and stairwell lighting. The 3" x 3" extruded aluminum housing tucks into architectural junctures and is fitted with a two-sided, frosted acrylic lens. When installed, virtually no fixture housing is visible, leaving the evenly illuminated lens to make a strong visual statement.

Fixture with certain options available for 7-Day QuickShip.

SPECIFICATIONS

Fixture constructed of an extruded aluminum housing, frosted, extruded acrylic lens and sheet aluminum end caps

Model variations offered for surface and pendant mount applications

Standard finishes as shown below

Available in nominal lengths of 2'-8' single fixtures and continuous runs

Basic continuous run fixtures provided with 18 ga. wiring harness for 6 Amp maximum load (consult factory for runs requiring multiple circuits, sensor integration, etc.)

One Ø 7/8" knock-out provided on both the top and back sides at the left end of the fixture

Standard 120-277V integral driver offered with 0-10V dimming or non-dim (other dimming driver options available)

Integral 120-277V emergency battery backup available for 4' or 8' nominal non-dim or 0-10V (consult factory for all other lengths/drivers)

Standard light outputs are 750, 970 or 1275 lumens per foot

LEDs available in 3000K, 3500K, and 4000K, within a 3 step MacAdam ellipse, all with 80+ CRI typical

Life: 50,000 hours L₇₀

Limited five year warranty

UL and C-UL listed for dry and damp locations



BSS750 -

NOMINAL FIXTURE LENGTH*	CORRELATED COLOR TEMPERATURE	DRIVER	LIGHT OUTPUT (lumens per foot)	MOUNT	RUN CONFIGURATION	FINISH
2: 22-9/16"	30: 3000K-80+ CRI	ND: non-dimming	L: low - 750	SM: surface mount	SN: single	AW: architectural white (semi-matte)
3: 33-5/8"	35: 3500K-80+ CRI	[Dimming]	R: regular - 970	PM18: pendant mount 18" stem length	ST: starter	WH: white (semi-gloss)
4: 44-11/16"	40: 4000K-80+ CRI	D: 0-10V, 1% (120V ONLY)	H: high - 1275	PM24: pendant mount 24" stem length	AD: adder	BL: black (semi-matte)
5: 55-3/4"		DLV: electronic low voltage, 1%, (120V ONLY)	CF: consult factory for custom output	PM30: pendant mount 30" stem length	TR: terminator	MB: matte black
6: 66-13/16"		HES: Lutron EcoSystem, soft-on/fade-to-black, 1%		CF: consult factory for custom mounting		ESS: environmental satin silver
7: 77-7/8"		EL: eldoLED ECOdrive 0-10V, 1%				BZ: bronze
8: 88-15/16"		ES: eldoLED SOLOdrive 0-10V, 0.1%				PR: primer
		ELD: eldoLED ECOdrive DALI, 1%				CF: consult factory for custom finish
		ESD: eldoLED SOLOdrive DALI, 0.1%				SA: satin anodize (may require additional lead time)

* Actual dimension dependent on mounting option and run configuration.

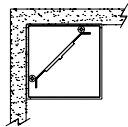
BSS750 | WEDGE

3" square corner mount LED luminaire

MOUNTING

ORDERING CODE

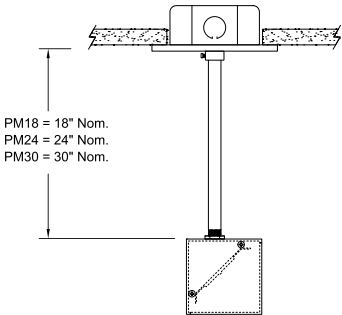
DESCRIPTION



SM

SURFACE MOUNT

- Use appropriate fastener through Ø3/16" holes in housing



PM18,
PM24,
PM30

PENDANT MOUNT

Mounting option includes:

- Ø 1/2" x 18" (PM18), 24" (PM24) or 30" (PM30) white steel stems
- 18 gauge power leads 12" longer than the stem length (on SN, ST fixtures)
- Bracket bars and hex nuts
- Ø 5" white canopies with integrated slip ring

OPTIONS

ORDERING CODE

DESCRIPTION

SPECIFICATIONS



ED

EMERGENCY LED DRIVER

- Universal 120-277V input voltage emergency driver delivers initial minimum power of 10W for 90 minutes
- Available for 4' or 8' nominal length non-dim or 0-10V fixture only (consult factory for all other lengths/drivers)
- Provided with combination test switch/indicator light for remote mount installation

BSS750 | WEDGE

3" square corner mount LED luminaire

LENGTH / MOUNTING DIMENSIONS

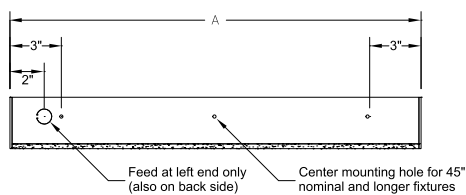
ORDERING CODE	LENGTH A	LENGTH B	LENGTH C	LENGTH D	LENGTH E
2	22-9/16"	22-5/16"	22-1/16"	16-9/16"	19-5/16"
3	33-5/8"	33-7/16"	33-3/16"	27-5/8"	30-7/16"
4	44-11/16"	44-1/2"	44-1/4"	38-11/16"	41-1/2"
5	55-3/4"	55-9/16"	55-5/16"	49-3/4"	52-9/16"
6	66-13/16"	66-5/8"	66-3/8"	60-13/16"	63-5/8"
7	77-7/8"	77-11/16"	77-7/16"	71-7/8"	74-11/16"
8	88-15/16"	88-3/4"	88-1/2"	82-15/16"	85-3/4"

RUN CONFIGURATION INFORMATION

ORDERING CODE	DESCRIPTION
SN	Single
ST	Starter
AD	Adder
TR	Terminator

RUN INFORMATION

Top View - Surface Mount Single Fixture Option

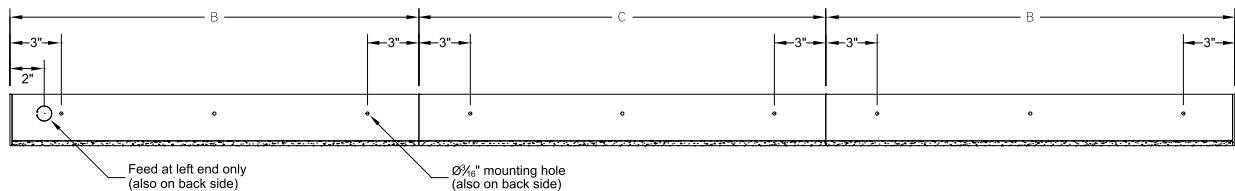


Front View - Surface Mount Single Fixture Option



SN

Top View - Surface Mount Continuous Fixture Option



Front View - Surface Mount Continuous Fixture Option



ST

AD

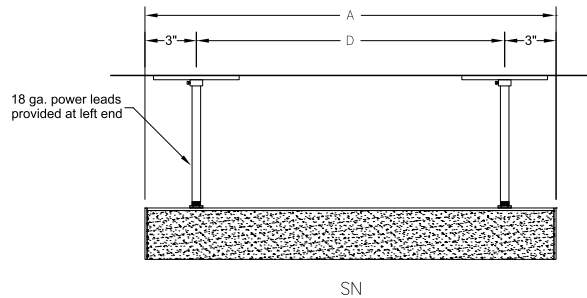
TR

BSS750 | WEDGE

3" square corner mount LED luminaire

RUN INFORMATION

Side View - Pendant Mount Single Fixture Option



Side View - Pendant Mount Continuous Fixture Option

