



STRAND AND PIER HOTEL
HERMOSA BEACH, CALIFORNIA
KGM #15392

ENTITLEMENT PACKAGE
(PRELIMINARY - NOT FOR CONSTRUCTION)

FIXTURE SCHEDULE
FIXTURE CATALOG CUT SHEETS



STRAND AND PIER HOTEL LIGHTING FIXTURE SCHEDULE

Contact: **Dave McCarroll** - dmccarroll@kgmlighting.com
Erica McNicholas - emcnicholas@kgmlighting.com
 Phone: (310) 552.2191
 Fax: (310) 552.2192

PRELIMINARY: NOT FOR CONSTRUCTION

TYPE	MANUFACTURER	MODEL NUMBER	LAMP	DESCRIPTION
EXTERIOR LIGHTING:				
FX-1	AMERLUX	HORNET HP DOWNLIGHT HDL-HP-S-A14-20-LED-VOLTAGE TO BE CONFIRMED BY ELECTRICAL ENGINEER-0-10V-HDL-HP-SD-A14- MWW-WF-3500	20W LED 3500K	RECESSED SQUARE LED DOWNLIGHT
FX-2	LUMASCAPE	LS853LED-20H6-A-N (BRUSHED STAINLESS STEEL*)-CONTRACTOR TO COORDINATE CONNECTION TYPE)-ME-29-Q-09-LS6012 (CROSS HATCH LOUVER) *VERIFY FINISH WITH DESIGN TEAM	21W LED 3000K FL30°	LED INGRADE UPLIGHT AT PALMS

TYPE	MANUFACTURER	MODEL NUMBER	LAMP	DESCRIPTION
FX-3	HEVILITE	HL-920-BZ (POWDER COATED BRONZE)* -L40-30-FL-VOLTAGE TO BE CONFIRMED BY ELECTRICAL ENGINEER- LA-4-920 (SOFT FOCUS LENS) *VERIFY FINISH WITH DESIGN TEAM CONTRACTOR TO PROVIDE ALL PARTS AND COMPONENTS FOR A COMPLETE OPERABLE AND DIMMING SYSTEM	18.9W LED 3000K FL40°	STAKE MOUNTED LED UPLIGHT
FX-4	BEGA	7208LED - BRZ (BRONZE)* *VERIFY FINISH WITH DESIGN TEAM	36.4W LED 3000K	PEDESTRIAN SCALE FIXTURE ON 10' POLE
FX-5	FOCUS INDUSTRIES	PL-23 SERIES PL-23-34LEDPBLT-BRT (BRONZE TEXTURE*)-277-FA-26 (MOUNTING POST) *VERIFY FINISH WITH DESIGN TEAM	4W LED 3000K	PATH LIGHT
FX-6	LED LINEAR	VARIOLED OCEANOS 316/S-W827/LENGTH AS REQUIRED FOR CONTINUOUS RUNS-IP67	3.2W/FT LED 3000K	INGRADE LINEAR LED UPLIGHT
FX-7	CALIFORNIA ACCENT LIGHTING	NEON LEDS NLED-1.8W-LED-3.0K-VOLTAGE TO BE CONFIRMED BY ELECTRICAL ENGINEER-LENGTH AS REQUIRED FOR CONTINUOUS RUN CONTRACTOR TO PROVIDE ALL PARTS AND COMPONENTS FOR A COMPLETE OPERABLE AND DIMMING SYSTEM	1.8W/FT LED 3000K	SURFACE MOUNTED CURVABLE LINEAR LED <i>WET LISTED</i>

TYPE	MANUFACTURER	MODEL NUMBER	LAMP	DESCRIPTION
FX-8	CALIFORNIA ACCENT LIGHTING	ALS210T-F (FROSTED LENS)-NA-LED-3.0K-120D-3W-0-10V-MO-FEED POINT TO BE CONFIRMED BY INSTALLING CONTRACTOR-DRY-LINE VOLTAGE (VOLTAGE TO BE CONFIRMED BY ELECTRICAL ENGINEER)-LENGTHS AS REQUIRED FOR CONTINUOUS RUNS CONTRACTOR TO PROVIDE ALL PARTS AND COMPONENTS FOR A COMPLETE OPERABLE AND DIMMING SYSTEM	3W/ FT LED 3000K	SURFACE MOUNTED LINEAR LED UPLIGHT
FX-9	HEVILITE	HL-925-BZ (POWDER COATED BRONZE)*- L50-30-FL-VOLTAGE TO BE CONFIRMED BY ELECTRICAL ENGINEER- LA-4-30 (SOFT FOCUS LENS) *VERIFY FINISH WITH DESIGN TEAM CONTRACTOR TO PROVIDE ALL PARTS AND COMPONENTS FOR A COMPLETE OPERABLE AND DIMMING SYSTEM	29.3W 3000K	STAKE MOUNTED LED UPLIGHT AT PALMS
FX-10	LUMENPULSE	LUMENDOME LMDN-48V-30K-WH (WHITE)*- DMX/RDM-WM-FTL (FLAT LENS) *VERIFY FINISH WITH DESIGN TEAM CONTRACTOR TO PROVIDE ALL PARTS AND COMPONENTS FOR A COMPLETE OPERABLE AND DIMMING SYSTEM	2W LED 3000K	INTEGRATED POINT SOURCE LED AT GREEN WALLS

TYPE	MANUFACTURER	MODEL NUMBER	LAMP	DESCRIPTION
FX-11	AURORA LIGHT	SONOMA LDM350- 180-30D-CONTRACTOR TO CONFIRM MOUNTING OPTION-BLP (BRONZE LIVING PATINA)* *VERIFY FINISH WITH DESIGN TEAM CONTRACTOR TO PROVIDE ALL PARTS AND COMPONENTS FOR A COMPLETE OPERABLE AND DIMMING SYSTEM	4W LED 3000K	INGRADE PATH LIGHT
FX-12	AURORA LIGHT	CANDELA LHL50-29D-BLP (BRONZE LIVING PATINA)* *VERIFY FINISH WITH DESIGN TEAM CONTRACTOR TO PROVIDE ALL PARTS AND COMPONENTS FOR A COMPLETE OPERABLE AND DIMMING SYSTEM	2.5W LED 2900K	CABLE MOUNTED DOWNLIGHT FIXTURE
FX-13	BEGA	3242LED-BRZ (BRONZE)* *VERIFY FINISH WITH DESIGN TEAM	26W LED	SURFACE MOUNTED DOWNLIGHT
FX-14	AXIS	BMSLED- B3- MF- 400-80-30-SO-15'-AP (ALUMINUM PAINT)*- VOLTAGE TO BE CONFIRMED BY ELECTRICAL ENGINEER- D-1-S *VERIFY FINISH WITH DESIGN TEAM CONTRACTOR TO PROVIDE ALL PARTS AND COMPONENTS FOR A COMPLETE OPERABLE AND DIMMING SYSTEM	3.3W/FT LED 3000K	SURFACE MOUNTED LINEAR LED

TYPE	MANUFACTURER	MODEL NUMBER	LAMP	DESCRIPTION
FX-15	AXIS	BMRLED- B3- MF- 400-80-30-ASO-15'- W (WHITE)*- VOLTAGE TO BE CONFIRMED BY ELECTRICAL ENGINEER- D (DRYWALL FLANGLSS)	5.5W/FT LED 3000K	RECESSED LINEAR LED WALL GRAZER
		*VERIFY FINISH WITH DESIGN TEAM CONTRACTOR TO PROVIDE ALL PARTS AND COMPONENTS FOR A COMPLETE OPERABLE AND DIMMING		
FX-16 (A- C)	AXIS	SKETCH SK-DIAMETER PER PLAN - B3-MF-CIR- NOMINAL LENGTH AS NEEDED- 400- 80-30-SO0W(WHITE)*-VOLTAGE TO BE CONFIRMED BY ELECTRICAL ENGINEER-D-1- DF	4.9W/FT LED 3000K	RECESSED LED RINGS
		*VERIFY FINISH WITH DESIGN TEAM CONTRACTOR TO PROVIDE ALL PARTS AND COMPONENTS FOR A COMPLETE OPERABLE AND DIMMING SYSTEM FX-16A: 24" DIAMETER FX-16B: 36" DIAMETER FX-16A: 48" DIAMETER		

TYPE	MANUFACTURER	MODEL NUMBER	LAMP	DESCRIPTION
F-17	BK LIGHTING	DELTA STAR DS-LED-E22-WFL-A9-BZP (BRONZE*)- 11 (HONEYCOMB BAFFLE)-A (CAP STYLE A)-TS (TREE STRAP)-TMC-BZP (BRONZE*)-12" (ADJUSTABLE STRAP) *VERIFY FINISH WITH DESIGN TEAM CONTRACTOR TO PROVIDE ALL PARTS AND COMPONENTS FOR A COMPLETE OPERABLE AND DIMMING SYSTEM	SORAA VIVID SERIES 9W LED MR16 3000K SM16-09-36D-930- 03	TREE MOUNTED MOONLIGHTING AIMED DOWN
F-18	SELUX	OLIVIO MEDIO LED (4)OLML- F40- SB4 (FIXTURE HEADS/EXACT MOUNTING LOCATIONS TO BE DETERMINED) - L46 - 30 - SV (SILVER)* - VOLTAGE TO BE CONFIRMED BY ELECTRICAL ENGINEER - DM POLE: O-AT535-156-12'-SV (SILVER)* - RN - BC5 *VERIFY FINISH WITH DESIGN TEAM	(4) 46W LED 3000K	SECURITY FLOODLIGHTS ON 12' POLE
DF-1	TBD	TBD	TBD	PENDANT MOUNTED EXTERIOR RATED DECORATIVE FIXTURE ABOVE BAR
DF-2	TBD	TBD	TBD	WALL MOUNTED EXTERIOR RATED DECORATIVE FIXTURES AT GROUND FLOOR TERRACE
DF-3	VIBIA	PLIS OUTDOOR 4030-03 (WHITE LACQUER)	52W (26W EACH) 2 x PL-T GX24Q- 3 TRIPLE TUBE	EXTERIOR RATED FLOOR LAMPS

HORNET® HP DOWNLIGHT

3.5" SQUARE DOWNLIGHT LED

HDL-HP-SD-A14
LED

APPLICATIONS:
Retail and commercial ambient lighting


CONSTRUCTION:
20 ga. galvanized steel frame
18 ga. galvanized steel splice housing and hanger brackets
Die-cast optical housing and trim
Extruded aluminum and die-cast heat sink

ELECTRICAL:
Electronic constant current LED driver, 120v or 277v input
ELV and Triac dimming standard, 120v or 277v,
0-10v and Lutron systems available. See following pages for more information.

This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit (supplied by others), surge damage is not covered by warranty.

MOUNTING:
For use in T-grid or sheet rock ceilings, 5/8" - 2" standard.

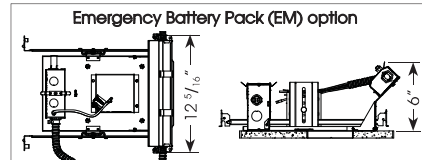
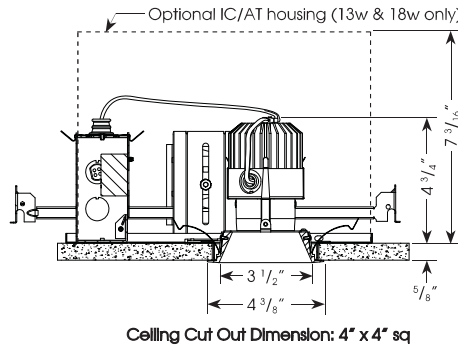
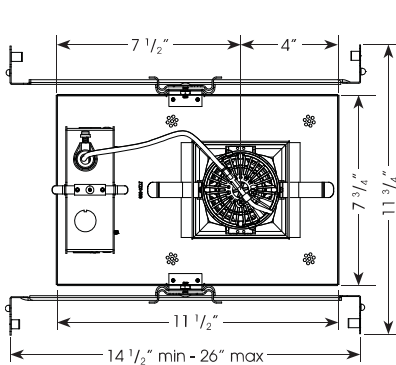
OPTICS:
LED:
Color Temp Options: 2200K, 2700K, 3000K, 3500K, 4000K
CRI: 83 typ. (2700K, 3000K, 3500K, 4000K)
97 typ. (2200K, 2700K, 3000K)
Amerlux Crisp White technology available (18w max)
R9 Value: 11 (83CRI), 92 (97CRI)
Binning: 3 MacAdam (SDCM)
Lumen Maintenance: >70% of initial lumens @ 50,000 hrs
Lumen Output (at 3000K):
18w: SP 1175 typ. 20w: SP 1305 typ.
 NF 1094 typ. NF 1216 typ.
 FL 1053 typ. FL 1170 typ.
 WF 1049 typ. WF 1166 typ.

LABELING:
 approval to UL standards as tested by CSA.
For indoor use only
IC/AT rated (optional)
Damp location



PROJECT:

TYPE:



ELECTRICAL
Electronic driver

	13w		18w		20w	
	System Watts	Amps	System Watts	Amps	System Watts	Amps
120v	13	0.11	18	0.15	20	0.17
277v	13	0.05	18	0.06	20	0.07

ORDERING INFORMATION:

Housing: Model	Wattage	Lamp Type	Voltage	Options	Trim: Model	Aperture Finish	Beam Spread	Color Temp	Options/Accessories
HDL-HP-S-A14	13	LED	120	HILUME - Lutron HiLume® dimming 0-10V - 0-10v dimming CP - Chicago Plenum EM - emergency battery pack with remote test switch (not for use with CP or IC/AT options) IC/AT - insulated ceiling/air tight (13w & 18w only)	HDL-HP-SD-A14	Reflector with White Painted Flange MBW - matte black MWW - matte white SLVW - matte silver	SP - spot, 15° NF - narrow flood, 20° MFL - medium flood, 24° FL - flood, 28° WF - wide flood, 45° VWF - very wide flood, 60° LS - linear spread, 60° x 10°	83 CRI 2700 3000 3500 4000	HEX - hexcell louver SOL - solite beam softening lens
	18		277			Reflector with Black Painted Flange MBB - matte black		97 CRI 2200-97 2700-97 3000-97	
	20					Reflector with Silver Painted Flange SLV - matte silver		CRISP - Crisp White (18w max)	

Complete Example: HDL-HP-S-A14-20-LED-120/HDL-HP-SD-A14-MBW-FL-3000
Housing Example: HDL-HP-S-A14-20-LED-120
Reflector Example: HDL-HP-SD-A14-MBW-FL-3000

Cat #:

Amerlux reserves the right to change details that do not affect overall function and performance.

Amerlux®, LLC • 178 Bauer Drive, Oakland, NJ 07436 • P: 973.882.5010 F: 973-882.2605 • www.amerlux.com



STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



RECESSED SQUARE LED DOWNLIGHT

FX-1

270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192

QUICKSHIP HORNET® HP DOWNLIGHT

3.5" SQUARE DOWNLIGHT LED

HDL-HP-SD-A14
LED

Amerlux® QuickShip makes it possible not only to keep up with expectations, but to keep ahead of them. We help enhance your competitive edge, ensuring you can start installation more quickly than you thought possible.

We can ship within 5-10 business days of your Amerlux QuickShip order, depending upon the selection.

- QuickShip must be clearly marked on all P.O.'s.
- Must note on P.O. if requesting frames ship first.
- Standard shipping terms apply.
- See terms & conditions below.

Quantity: 100 pieces or less
Housing: 5 days
Trims: 10 days



PROJECT:

TYPE:

QUICKSHIP ORDERING INFORMATION:

Housing: Model	Wattage	Lamp Type	Voltage	Options	Trim: Model	Aperture Finish	Beam Spread	Color Temp
HDL-HP-S-A14	18 20	LED	120 277	0-10V - 0-10v dimming CP - Chicago Plenum	HDL-HP-SD-A14	MWW - matte white	SP - spot, 15° NF - narrow flood, 20° MFL - medium flood, 24° FL - flood, 28° WF - wide flood, 45° VWF - very wide flood, 60° LS - linear spread, 60° x 10°	83 CRI 3000 3500

Complete QuickShip Example: HDL-HP-S-A14-18-LED-120/HDL-HP-SD-A14-MWW-SP-3000
Housing Example: HDL-HP-S-A14-18-LED-120
Trim Example: HDL-HP-SD-A14-MWW-SP-3000

Cat #:

Terms & Conditions

1. For QuickShip processing, please submit QuickShip items on separate purchase order and indicate "QuickShip" on order.
2. Configurations outside of what is displayed on the QuickShip program are not available under the QuickShip lead times.
3. Please contact Customer Support to process orders with quantities larger than those listed.
4. Orders will be entered within 24 hours of receipt of a clean purchase order. Lead times are calculated by business days from time of sales order confirmation. Orders will ship within QuickShip lead times or sooner.
5. Change orders and order cancellations cannot be processed after sales order confirmation is generated.
6. For freight allowed (greater than \$3,000), order will ship complete based on longest lead time item. Please indicate on PO if Partial Shipments are approved and indicate freight method. For partial shipments under \$3,000, customer will be invoiced for freight.
7. All Lead times indicate when the fixture ships from Amerlux®. Arrival at destination is contingent upon carrier.

Expedite your orders by providing:

- Separate purchase order noting "QuickShip Program"
- Complete and accurate configurations
- Accurate pricing, quote number, shipping and contact information

Amerlux reserves the right to modify this program at any time.



HORNET® HP DOWNLIGHT

3.5" SQUARE DOWNLIGHT LED

HDL-HP-SD-A14
LED



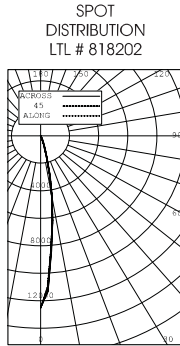
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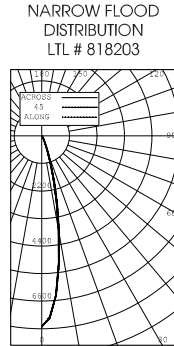
FIXTURE DATA: For 13w data, multiply by 0.71; For 18w data, multiply by 0.90

Complete photometric data (ies format) available upon request.

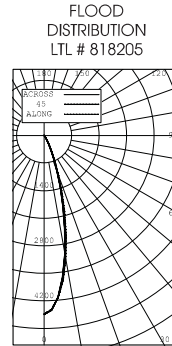
20W LED



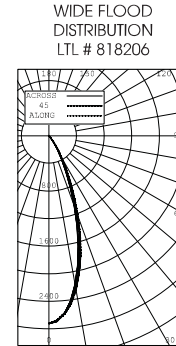
Candelas at Nadir	
Deg	Candela
0	12503
5	8267
15	1659
25	185
35	34
45	2



Candelas at Nadir	
Deg	Candela
0	7621
5	6414
15	1904
25	282
35	49
45	4



Candelas at Nadir	
Deg	Candela
0	4540
5	4130
15	2019
25	490
35	81
45	5

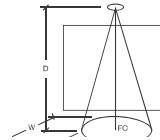


Candelas at Nadir	
Deg	Candela
0	2721
5	2581
15	1751
25	712
35	161
45	7

APPLICATION DATA:

Notes and Definitions:

Beam spread is to 50% center beam candlepower (CBCP).
 D=Distance to floor or wall.
 FC=Footcandles on floor or wall at center beam aiming location.
 L=Effective Visual Beam length in feet (50% of maximum footcandle level).
 W=Effective Visual Beam width in feet (50% of maximum footcandle level).
 CB=Distance across or down to center beam location.



0° Aiming Angle
Horizontal
Footcandles

	D	FC	L	W
SPOT	5.0'	290	1.9	1.9
	7.5'	161	2.6	2.6
	10.0'	101	3.1	3.1
	12.5'	69	3.7	3.7
NARROW FLOOD	5.0'	219	2.2	2.2
	7.5'	114	3.0	3.0
	10.0'	69	3.8	3.8
	12.5'	45	4.7	4.7
FLOOD	5.0'	141	2.7	2.7
	7.5'	70	3.7	3.7
	10.0'	42	4.9	4.9
	12.5'	27	6.0	6.0
WIDE FLOOD	5.0'	97	3.3	3.3
	7.5'	46	4.8	4.8
	10.0'	26	6.3	6.3
	12.5'	17	7.7	7.7

STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



RECESSED SQUARE LED DOWNLIGHT

FX-1

HORNET® HP DOWNLIGHT

3.5" SQUARE DOWNLIGHT LED

HDL-HP-SD-A14
LED



TYPE:



DIMMING COMPATIBILITY:

Amerlux® "Hornet" fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance.

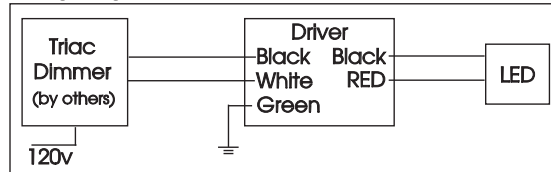
TRIAC (Forward Phase) DIMMING (standard)

Utilizes "Standard" incandescent dimmers that are in wide use in installations across the US. Best for retrofit applications where Triac dimmers are installed.

Notes:

- 120v or 277v
- Dims down to less than 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

Wiring Diagram



Compatible Dimmers

Wall Box (Incandescent Style, Wattage as required)

Lutron "Diva"
Lutron "Nova-T"
Lutron "Maestro"

Lutron "Vareo"
Lutron "Skylark"

Central System

ETC "SR" Rack w/D20
Module
Lutron "GP" Panel

ETC "DRD" Rack w/D20
Module
Lutron Grafix Eye QS

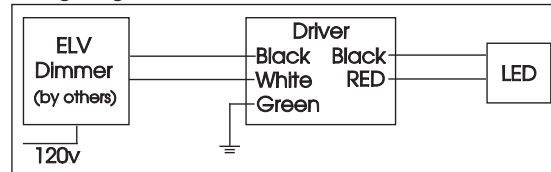
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (standard)

Utilizes specialized "ELV" dimmers. Best for New Construction applications

Notes:

- 120v or 277v
- Dims down to less than 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
- Must meet dimmer Minimum Load Requirements

Wiring Diagram



Compatible Dimmers

Wall Box (ELV Style)

Lutron "Diva"
Lutron "Nova-T"
Lutron "Maestro"
Leviton "Surslide"

Lutron "Vareo"
Lutron "Skylark"
Leviton "Vizio"

Central System

ETC "SR" Rack w/ELV10
Module
Lutron "GP" Panel with
PHPM-PA Interface

ETC "DRD" Rack w/ELV10
Module
Lutron Grafix Eye QS with
PHPM-PA Interface

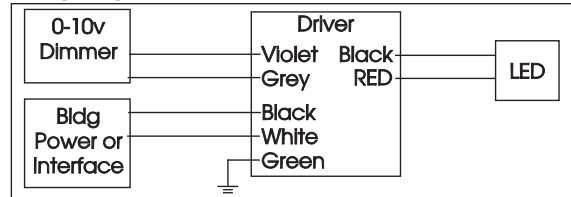
0-10V - DIMMING (-0-10V Option)

Integrates into a variety of building management and daylighting controls

Notes:

- 120v - 277v
- Dims down to less than 10% light output
- Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!

Wiring Diagram



Compatible Dimmers

Wall Box

Lutron "Diva" - DVTV with
PP-120H Interface

Leviton Renoir II 0-10v

Central System

Lutron Grafix Eye with
GRX-TVI Interface



HORNET® HP DOWNLIGHT

3.5" SQUARE DOWNLIGHT LED

HDL-HP-SD-A14
LED



TYPE:



LUTRON HI-LUME / ECO-SYSTEM (-HILUME Option)

Integrates into a variety of building management and daylighting controls

Notes:

- 120v or 277v
- Dims down to less than 5% light output
- May use 3-Wire or Ecosystem Control
- Consult Dimming manufacturer for Installation Instructions - DO NOT SHARE NEUTRALS!

Compatible Dimmers

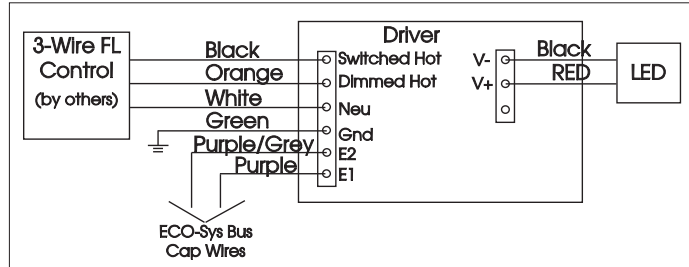
Wall Box (3-Wire Fluorescent)

- DIVA
- Maestro
- Nova T
- Vareo

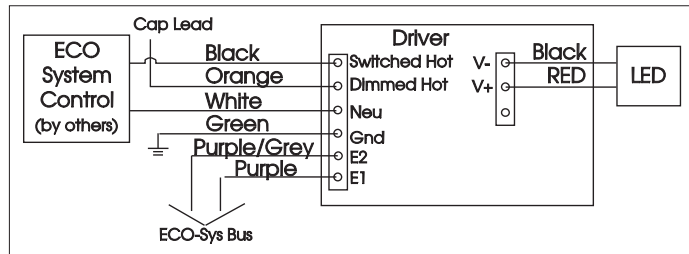
Central System

- Lutron ECO-System compatible controls
- ETC "SR" Rack w/D20F Module
- ETC "DRD" Rack w/D20F Module

3-Wire Wiring Diagram



ECO System Digital Control Wiring



LS853LED

Ingrade



The LS853LED is a full featured, shallow depth ingrade luminaire featuring lumen output and efficacy exceeding metal halide. As an inherently protected luminaire it can be used in interior spaces and immediately adjacent to combustible materials (such as wood decking, etc). Dimming options include 0-10 V and PWM protocols, with various power input options, including 120-277 V. In addition, internal rotation and tilt adjustability ensures the most efficient light delivery can be set according to site conditions.

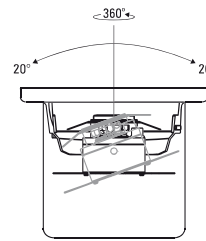
Specifications

Lamp Source	16 W or 20 W LED <input type="checkbox"/> White (4 300 K typical) <input type="checkbox"/> Warm white (3 000 K typical) <input type="checkbox"/> Blue (470 nm) <i>Other colors by request</i> <input type="checkbox"/> RGB
Approved Use	Suitable for wet locations Suitable for use in poured concrete Inherently protected
Lumen Maintenance (L70)	> 60,000 hrs <i>Limited by TM-21 x6 rule</i>
Control Options	0-10 V PWM
IP Rating	IP68
Construction	316 marine grade stainless steel
Installation Types	Pre-Installation Blockout Concrete pour, drive-over & general use applications Direct Burial Landscapes, planters & special applications <i>(consult factory)</i>
Drive-over	With OptiClear™ lens and pre-installation blockout (LS6052-K or LS6052-K-SP)
Static Load Rating	8 140 lb (3 700 kg) with OptiClear™ lens and pre-installation blockout (LS6052-K or LS6052-K-SP) <i>(Load applied to center of glass across a 2" diameter area)</i>
Impact Rating	IK10 with OptiClear™ lens
Standard Inclusions	Teflon coated cover screws MicroAntiLeach™ wire entry
Accessories	LS6052-K/LS6052-K-SP Pre-installation blockout
Remote Transformers / Power Supplies	Refer to Technical Data section for application specific options <i>Order separately</i>
Ambient Operating Temperature	16 W -22 °F to 104 °F (-30 °C to +40 °C) 20 W -22 °F to 122 °F (-30 °C to +50 °C)
Surface Temperature	≤ 113 °F (45 °C)
Photometrics	Refer to www.lumascape.com

Any luminaire can become hot - take care with appropriate use and placement



LS853LED
 with round flush cover



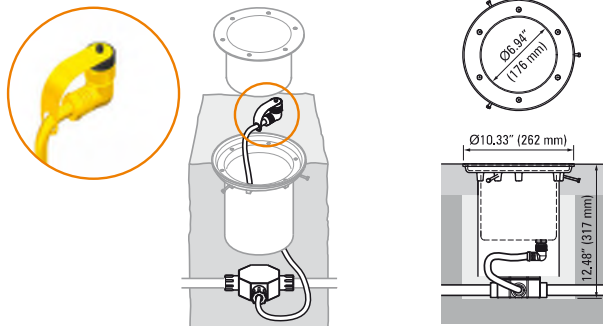
Why Use LS6052-K Pre-Installation Blockout?

The LS6052-K acts as a blockout, and is intended for installation before the luminaire, however it has other special functions. To simplify the installation, every LS6052-K is supplied complete with a 4-way, 3/4" PVC junction box, inside which the installer can make all necessary connections, and allows the completion of all wiring even before the luminaire arrives on site. This method also ensures the luminaire itself is not damaged during concreting or other site works. **Note: The junction box remains serviceable after installation.** To complete the installation, Lumascape provides an IP68 connector, enabling a tool-free final connection from the luminaire to the branch circuit. In addition, this connector is readily detachable, allowing for off-site maintenance.

Why Use LS6052-K-SP Pre-Installation Blockout?

The LS6052-K-SP pre-installation kit (order separately) is ideal for use in applications where maximum flexibility for the type and location of branch circuit connections are required or where exact site conditions may be unknown. The LS6052-K-SP is also for use with all applications requiring a color changing or dimmable lighting scheme. For use with the LS6052-K-SP, Lumascape provides the LS853LED complete with 6.5' of factory-installed hookup wire or an S00W cord (both options include a **MicroAntiLeach™** seal). This provides the installer with greater flexibility to determine the type and location of the branch circuit connection. This option is also 100% hard-wired, and does not feature the IP68 detachable couplings for off-site maintenance. All aspects of the luminaire itself are still field serviceable.

Connection Type '85' for LS6052-K Pre-Installation Blockout



IP68 Connector & Junction Box

The luminaire is fitted with an IP68 connector, which attaches directly to the cord supplied with LS6052-K, without the use of any tools. The cord is 1.8' (0.56 m) in length, and is factory assembled with a 4 way, 3/4" junction box - **Remains field serviceable after installation.**

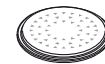
Not suitable for color changing or dimmable applications.

Lens Options



OptiClear™ Glass

Glass of very high optical purity and load strength. Suitable for walk-over and drive-over applications.



GripGlass™

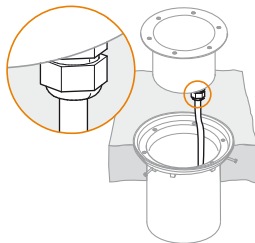
OptiClear™ glass with slip reduction glazing process. Suitable for walk-over and drive-over applications.



Borosilicate Glass

Ideal for limited access locations. Not recommended for high traffic pedestrian areas.

Connection Type '84' for LS6052-K-SP Pre-Installation Blockout

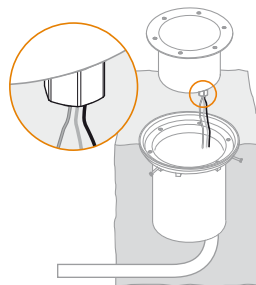


6.5' S00W Cord

For connection to the branch circuit via junction box (by others) or other approved method.

c/w 6.5' S00W Cord (16/3)

Connection Type '82' for LS6052-K-SP Pre-Installation Blockout



1/2" NPT Adapter

The luminaire is factory-fitted with 6.5' hookup wire. Ensure terminations can be made within this length.

For other length options, consult factory.

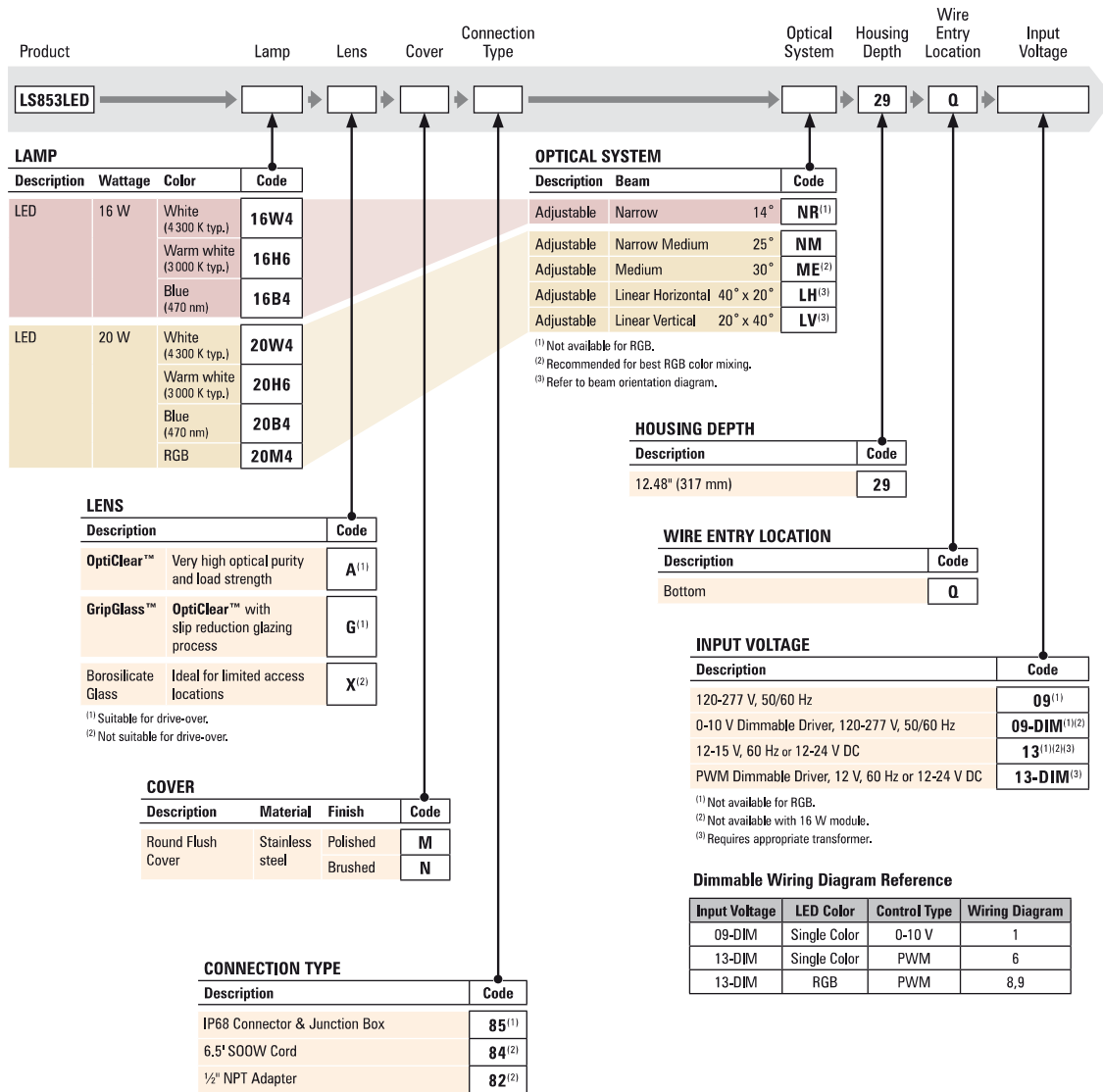
Cover Options for Pre-Installation Blockout

Flush covers for pre-installation use special seals and support bushes to ensure static loads up to 8 140 lb (3 700 kg) are properly supported. In order to achieve this drive-over rating, **OptiClear™** or **GripGlass™** must be used.



Pre-Installation Blockout Round Flush Cover

■ SS316: Polished ■ SS316: Brushed



Dimmable Wiring Diagram Reference

Input Voltage	LED Color	Control Type	Wiring Diagram
09-DIM	Single Color	0-10 V	1
13-DIM	Single Color	PWM	6
13-DIM	RGB	PWM	8,9

LS853LED Accessories

Stacking and order of accessories

Other accessory stacking options may be available - consult factory

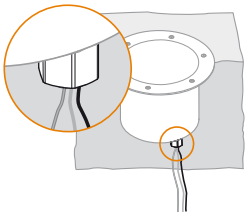
Why Use Direct Burial?

Direct burial installation is ideal for landscaping areas or for special applications where depth is restricted. This type of installation also allows for maximum heat dissipation. The 316 grade Stainless Steel construction of the luminaire performs flawlessly in alkaline and acidic soil types, and is also rated for use in concrete pour applications. **Note: This installation type has no option for a pre-installation blackout.**

Lumascap provides the LS853LED complete with 6.5' of factory installed hookup wire and 1/2" NPT adapter, supplied complete with **MicroAntiLeach™** seal. This provides the installer with greater flexibility to determine the nature of the branch circuit connection. This connection is also 100% hardwired. All aspects of the luminaire itself remain field serviceable.

Consult factory for application advice prior to using this configuration.

Connection type '82' for 'Direct Burial' housing



1/2" NPT Adapter

The luminaire is factory-fitted with 6.5' hookup wire. Ensure terminations can be made within this length.

For other length options, consult factory.


Lens Options

- OptiClear™ Glass**
Glass of very high optical purity and load strength. Suitable for walk-over and drive-over applications.
- GripGlass™**
OptiClear™ glass with slip reduction glazing process. Suitable for walk-over and drive-over applications.
- Borosilicate Glass**
Ideal for limited access locations. Not recommended for high traffic pedestrian areas.

Cover Options for Direct Burial


Use recessed cover for installation in soil, grass, pavers and other uneven surfaces where no cover overhang is desired.

Use flush covers for installation in fine finished surfaces such as granite and marble. They can also be used in some suspended applications. The flush cover will conceal gaps between the luminaire and the surrounding surface.




Recessed Cover

- SS316: Polished
- SS316: Brushed



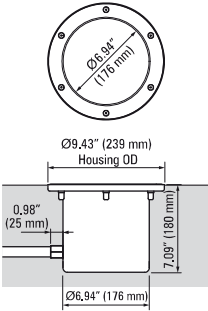
Round Flush Cover

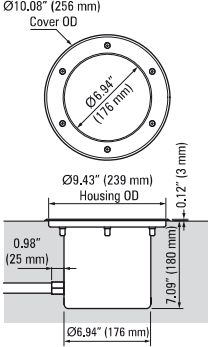
- SS316: Polished
- SS316: Brushed

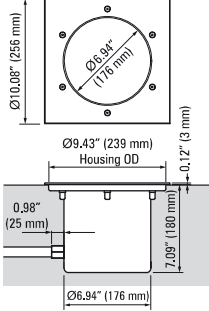


Square Flush Cover

- SS316: Brushed







Product Lamp Lens Cover Connection Type Optical System Housing Depth Wire Entry Location Input Voltage

LS853LED 82 28

LAMP

Description	Wattage	Color	Code
LED	16 W	White (4300 K typ.)	16W4
		Warm white (3000 K typ.)	16H6
		Blue (470 nm)	16B4
LED	20 W	White (4300 K typ.)	20W4
		Warm white (3000 K typ.)	20H6
		Blue (470 nm)	20B4
		RGB	20M4

LENS

Description	Code
OptiClear™ Very high optical purity and load strength	A
GripGlass™ OptiClear™ with slip reduction glazing process	G
Borosilicate Glass Ideal for limited access locations	X

COVER

Description	Material	Finish	Code
Recessed Cover	Stainless steel	Polished	B
		Brushed	H
Round Flush Cover	Stainless steel	Polished	D
		Brushed	I
Square Flush Cover	Stainless steel	Brushed	V

CONNECTION TYPE

Description	Code
1/2" NPT Adapter	82

OPTICAL SYSTEM

Description	Beam	Code
Adjustable	Narrow 14°	NR ⁽¹⁾
Adjustable	Narrow Medium 25°	NM
Adjustable	Medium 30°	ME ⁽²⁾
Adjustable	Linear Horizontal 40° x 20°	LH ⁽³⁾
Adjustable	Linear Vertical 20° x 40°	LV ⁽³⁾

⁽¹⁾ Not available for RGB.
⁽²⁾ Recommended for best RGB color mixing.
⁽³⁾ Refer to beam orientation diagram.

HOUSING DEPTH

Description	Code
7.09" (180 mm)	28

WIRE ENTRY LOCATION

Description	Code
Side	N
Bottom	Q

INPUT VOLTAGE

Description	Code
120-277 V, 50/60 Hz	09 ⁽¹⁾
0-10 V Dimmable Driver, 120-277 V, 50/60 Hz	09-DIM ⁽¹⁾⁽²⁾
12-15 V, 60 Hz or 12-24 V DC	13 ⁽¹⁾⁽²⁾⁽³⁾
PWM Dimmable Driver, 12 V, 60 Hz or 12-24 V DC	13-DIM ⁽³⁾

⁽¹⁾ Not available for RGB.
⁽²⁾ Not available with 16 W module.
⁽³⁾ Requires appropriate transformer.

Dimmable Wiring Diagram Reference

Input Voltage	LED Color	Control Type	Wiring Diagram
09-DIM	Single Color	0-10 V	1
13-DIM	Single Color	PWM	6
13-DIM	RGB	PWM	8,9

LS853LED Accessories

Stacking and order of accessories

External accessory
 Use with recessed covers only
 Not suitable for use in traffic areas

Other accessory stacking options may be available - consult factory

Photometrics

Photometric data is based on test results from a NIST traceable testing lab. IES data is available at www.lumascap.com.
 Note: No depreciation factor is applied to the data shown.

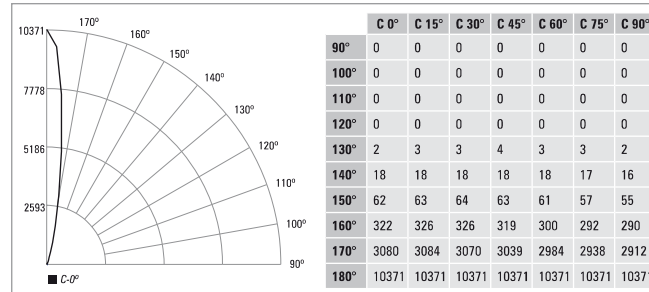
Polar Candela Distribution

Illuminance at a Distance

LS853LED
4 300 K⁽¹⁾
14° Beam Angle

Power Input	17 W
Lumens	959
Efficacy	56 lm/W

⁽¹⁾ To approximate warm white data, multiply by 0.84. Refer web site for IES files for all color temperatures.

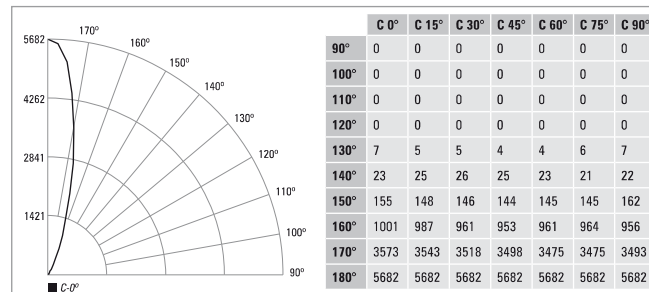


ft	Center Beam fc	Beam Ø
5	414.8	1 ft
10	103.7	3 ft
15	46.1	4 ft
25	16.6	7 ft
30	11.5	8 ft
40	6.5	11 ft
50	4.1	13 ft

LS853LED
4 300 K⁽¹⁾
25° Beam Angle

Power Input	21 W
Lumens	1265
Efficacy	60 lm/W

⁽¹⁾ To approximate warm white data, multiply by 0.84. Refer web site for IES files for all color temperatures.

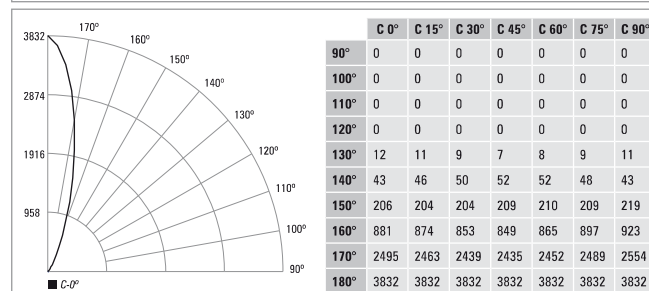


ft	Center Beam fc	Beam Ø
5	227.3	2 ft
10	56.8	4 ft
15	25.3	7 ft
25	9.1	11 ft
30	6.3	13 ft
40	3.6	18 ft
50	2.3	22 ft

LS853LED
4 300 K⁽¹⁾
30° Beam Angle

Power Input	21 W
Lumens	1137
Efficacy	54 lm/W

⁽¹⁾ To approximate warm white data, multiply by 0.84. Refer web site for IES files for all color temperatures.

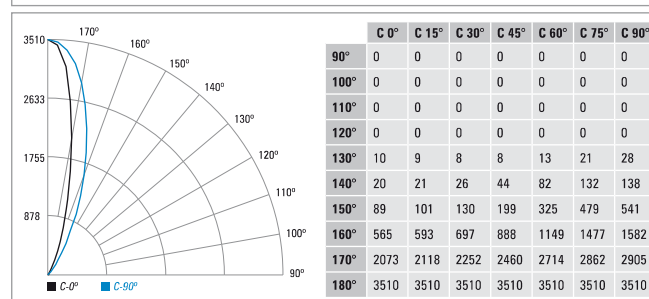


ft	Center Beam fc	Beam Ø
5	153.3	3 ft
10	38.3	5 ft
15	17	8 ft
25	6.1	13 ft
30	4.3	16 ft
40	2.4	21 ft
50	1.5	27 ft

LS853LED
4 300 K⁽¹⁾
20° x 40° Beam Angle

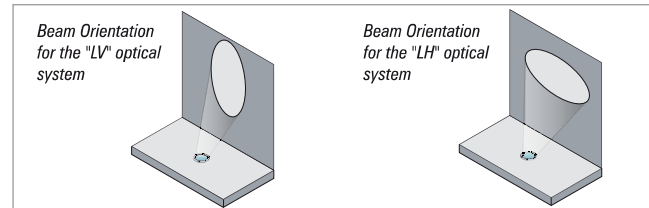
Power Input	21 W
Lumens	1126
Efficacy	54 lm/W

⁽¹⁾ To approximate warm white data, multiply by 0.84. Refer web site for IES files for all color temperatures.



ft	Center Beam fc	Beam W	Beam L
5	140.4	2 ft	4 ft
10	35.1	4 ft	7 ft
15	15.6	5 ft	11 ft
25	5.6	9 ft	18 ft
30	3.9	11 ft	22 ft
40	2.2	14 ft	29 ft
50	1.4	18 ft	36 ft

Beam Orientations



SPECIFICATIONS

DESCRIPTION:
High output adjustable LED accent fixture. Suitable for wet/damp/dry location installations.

MATERIAL:
Standard overall material is 6061 aluminum.

FINISH:
AA - Anodized Satin Aluminum
AP - Powder Coat Aluminum
BK - Powder Coat Black
BZ - Powder Coat Bronze
WT - Powder Coat White

LED OPTIONS:
Integral high output Xicato LED module.
LED Output

L30 - 9.1W, 350mA, 750 Lumen
L40 - 18.9W, 700mA, 1300 Lumen
 Color Temperature CCT
27 - 2700K CCT
30 - 3000K CCT
35 - 3500K CCT
40 - 4000K CCT

Reflector, Field Replaceable
NF - Narrow Flood, 20°
FL - Flood, 40°
WFL - Wide Flood, 60°

VOLTAGE:
Requires remote LED driver. Leading edge/trailing edge dimmable constant current remote LED Driver included. Dimmable only in 120V. See driver options.
120-277 - 120-277V LED driver

DRIVER OPTIONS:
Fixture includes HL-RD remote LED driver enclosure (3R rated stainless steel enclosure) standard. Driver options available in place of HL-RD for direct burial, surface, ground and wall mounting available.
H-POD-LED-L30 - Remote direct burial driver.
H-POD-LED-L40 - Remote direct burial driver.
HLD-CBB-L30 - Composite burial box for driver w/fixture mount.
HLD-CBB-L40 - Composite burial box for driver w/fixture mount.
SMED-L30 - Surface mount driver canopy.
SMED-L40 - Surface mount driver canopy.
WMED-L30 - Wall mount driver canopy.
WMED-L40 - Wall mount driver canopy.
GM-9-L30W - Landscape Post with waterproof driver.
GM-9-L40W - Landscape Post with waterproof driver.

MOUNTING:
Fixture is designed with a 1/2-NPS adjustable mounting stem.

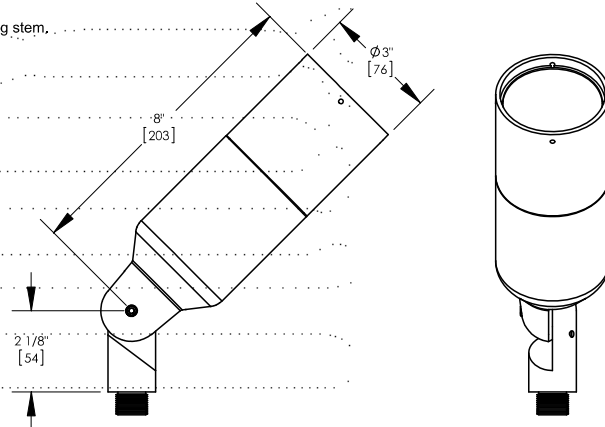
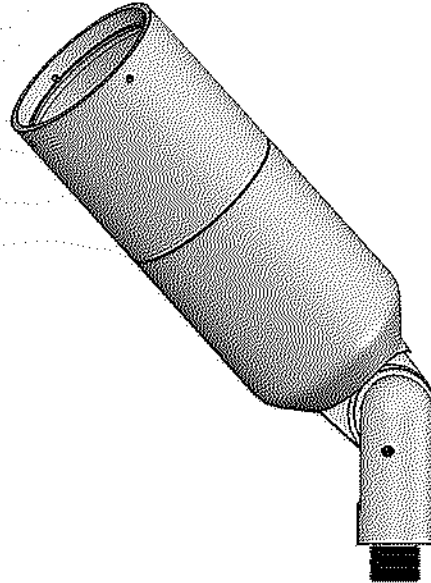
OPTIONS:
Glare shield
GL-920 - Angled, aluminum
GL-921 - Straight, aluminum
 Lenses/Louvers/Color Filters
LA-1-920 - Hexcell Louver (Black)
LA-2-920 - Prismatic lens
LA-3-920 - Linear spread lens
LA-4-920 - Soft focus lens (diffused)
LA-5-920 - Moonlight lens
LA-6-920 - Blue lens
 See fixture accessories for more information.

SAMPLE ORDER SPECIFICATION:
HL-920-BZ-L40-30-FL-120-277-SMED-L40

RATING:
Wet/damp/dry location.



MADE IN THE USA



ORDER SPECIFICATION: _____ Fixture _____ Finish _____ LED Options _____ Voltage _____ Options/Access. _____

PROJECT: _____
 APPROVED: _____
 NOTE: _____
 TYPE: _____

HEVI LITE, INC.
 9714 Variel Ave, Chatsworth, CA 91311
 Tel., (818) 341-8091 - Fax (818) 998-1986
 Web Site <http://www.hevilite.com>

CATALOG NUMBER:
HL-920

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STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



STAKE MOUNTED LED UPLIGHT

FX-3

270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL:310.552.2191 | FAX:310.552.2192

Pole top luminaires with indirect adjustable light distribution

Housing/fitter: Heavy one piece die-cast aluminum optical housing with integrally cast transition "fitter" which slip fits a 3" O.D. pole top or tenon and is secured by six (6) flush, stainless steel set screws. The housing gracefully supports two (2) 3/4" diameter stainless steel struts located at 180° as well as a die-cast aluminum diffuser retaining ring. All components function and appear as a unified design. Die castings are marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy.

Enclosure: 3/4" thick, machined tempered crystal clear optical glass with a high temperature-rated one piece molded silicone rubber gasket encloses the precise, stippled pure aluminum, wide flood distribution reflector. The glass retaining ring is secured by two (2) hidden stainless steel hex head access screws.

Reflective disk: 31 1/2" diameter x 1/4" thick aluminum plate secured by two (2) die-cast aluminum fixed clamping "saddles" which receive the stainless steel struts. Adjustable up to 30° in 5° increments in one direction. A 1/4" wide by 1/8" deep "drip" channel is provided around the edge of the underside disk.

Electrical: 36.4W LED luminaire, 43 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: LEDs supplied with luminaire. 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.

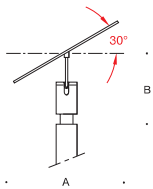
CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

Weight: 33 lbs.

Effective Projection Area (EPA): 6.0 ft²

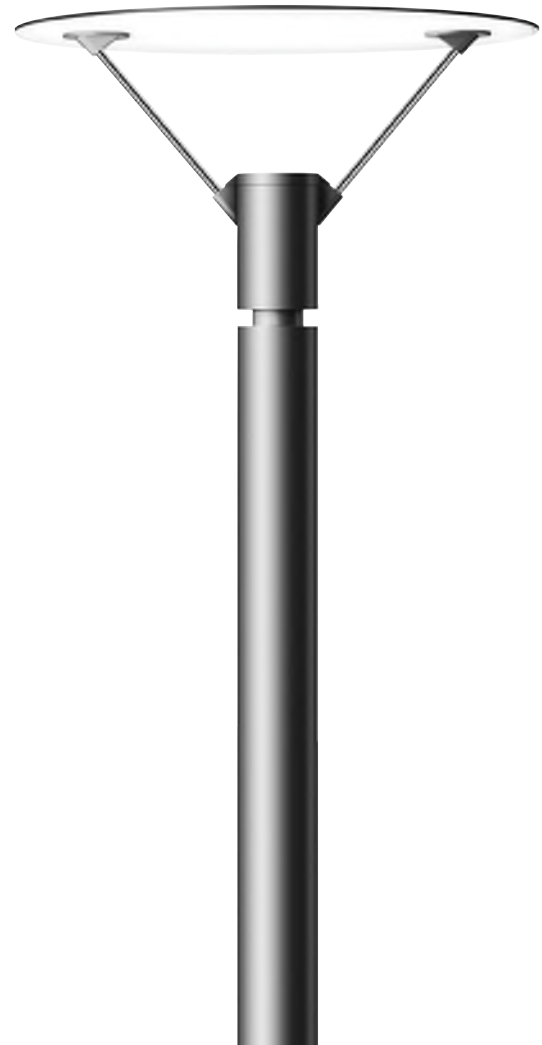
Luminaire Lumens: 1742

Tested in accordance with LM-79-08



	Lamp	LEED	A	B
77208	36.4W LED	LZ-3	31 1/2	19 7/8

Type:
 BEGA Product:
 Project:
 Voltage:
 Color:
 Options:
 Modified:



BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com
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STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



PEDESTRIAN SCALE FIXTURE ON 10' POLE

FX-4

270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192



landscape · entertainment · architectural · hospitality · illumination

PL-23 SERIES PATH LIGHT



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

STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



PATH LIGHT

FX-5

270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192



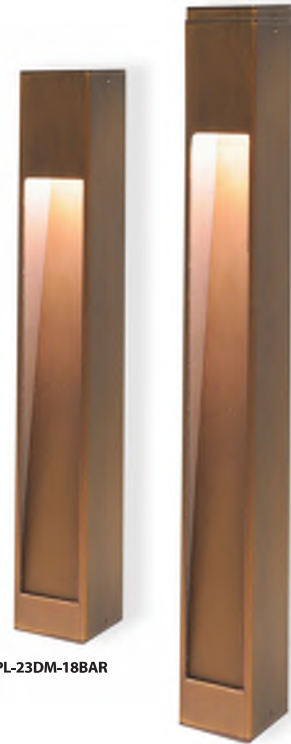
PATH LIGHTS PL-23 SERIES



TYPE

SPECIFICATIONS

CONSTRUCTION: Extruded 2.25" square aluminum or brass.
LAMP SUPPLIED: 18w S8 #1141; 1200 hours average rating (25w max.)
LAMP OPTIONS: 12v 3w 50,000 hours average rating OMNI-3 LED (-LED3)
SOCKET: Single contact bayonet, brass nickel plated lamp socket screw shell (Ba15s); double contact bayonet base (Ba15d) for 120v, both with 200° C silicone lead wires.
 No socket for LED Panel models
LED PANEL OPTION: 12v, 4w, 300 lumen integrated LED flat panel, warm white 3000K (-LEDP); optional cool white 5200K 320 lumen available (modify part number to -LEDP52)
LED LIFETIME RATING: 50,000 Hours
LED INTERNAL DRIVER*: 4w 350mA output, 12v AC input. Voltage range of 9 to 18 volts with optimum operating range of 10 to 15 volts for consistent performance and brightness.
 For use with magnetic transformers only.
WRING: Black 3 foot 18/2 zip cord from base of fixture (12v only)
 For 25 foot 16/2 fixture lead wire add -25F to catalog number.
 120v standard wiring
CONNECTION: FA-05 Quick Connector (not supplied) from fixture to main cable (12/2, 10/2 or 8/2 only) 12v only
MOUNTING: FA-03-LG black 9" ABS stake, tapped 1/2" NPS (PL-23-DM)
FINISH: Aluminum - Black texture polyester powder coat. Optional finishes available
 Brass - Unfinished brass. Optional finishes available



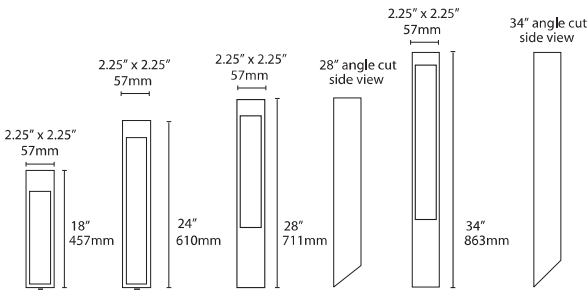
*NOTE: Optional 120v to 277v drivers available. Must use FA-26 mounting post or junction box

ORDERING INFORMATION

CATALOG NO.	DESCRIPTION	LAMP	SHIP WEIGHT
PL-23DM-18BLT	18" Square Aluminum Bollard	18w S8 #1141	3.0lbs.
PL-23DM-18BRS	18" Square Brass Bollard	18w S8 #1141	6.0lbs.
PL-23DM-24BLT	24" Square Aluminum Bollard	18w S8 #1141	3.0lbs.
PL-23DM-24BRS	24" Square Brass Bollard	18w S8 #1141	6.0lbs.
PL-23DM-18LEDPBLT	18" Square Aluminum Bollard	4w LED Panel	3.0lbs.
PL-23DM-18LEDPBRS	18" Square Brass Bollard	4w LED Panel	6.0lbs.
PL-23DM-24LEDPBLT	24" Square Aluminum Bollard	4w LED Panel	3.0lbs.
PL-23DM-24LEDPBRS	24" Square Brass Bollard	4w LED Panel	6.0lbs.

Angle Cut Version: No stake required 10" of total length designed to go in ground for 18" & 24" above ground height

PL-23-28BLT	28" Square Aluminum Bollard	18w S8 #1141	3.0lbs.
PL-23-28BRS	28" Square Brass Bollard	18w S8 #1141	6.0lbs.
PL-23-34BLT	34" Square Aluminum Bollard	18w S8 #1141	3.0lbs.
PL-23-34BRS	34" Square Brass Bollard	18w S8 #1141	6.0lbs.
PL-23-28LEDPBLT	28" Square Aluminum Bollard	4w LED Panel	3.0lbs.
PL-23-28LEDPBRS	28" Square Brass Bollard	4w LED Panel	6.0lbs.
PL-23-34LEDPBLT	34" Square Aluminum Bollard	4w LED Panel	3.0lbs.
PL-23-34LEDPBRS	34" Square Brass Bollard	4w LED Panel	6.0lbs.



JOB INFORMATION

Type: _____ Date: _____
 Job Name: _____
 Cat. No.: _____
 Lamp(s): _____
 Specifier: _____
 Contractor: _____
 Notes: _____

FOCUS INDUSTRIES INC. www.focusindustries.com
 25301 COMMERCENTRE DRIVE sales@focusindustries.com
 LAKE FOREST, CA 92630 (949) 830-1350 • FAX (949) 830-3390

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

PL-23-CutSheet 020516

BRASS & COPPER ONLY

STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



PATH LIGHT

FX-5

270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192

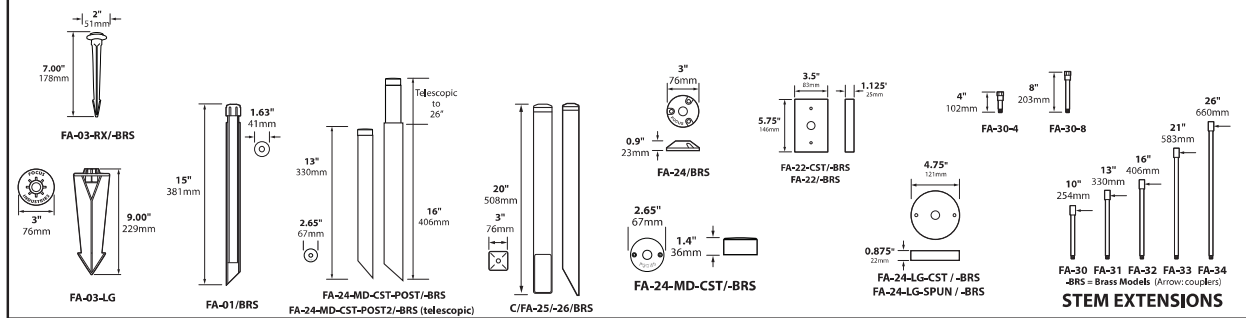


PATH LIGHTS PL-23 SERIES

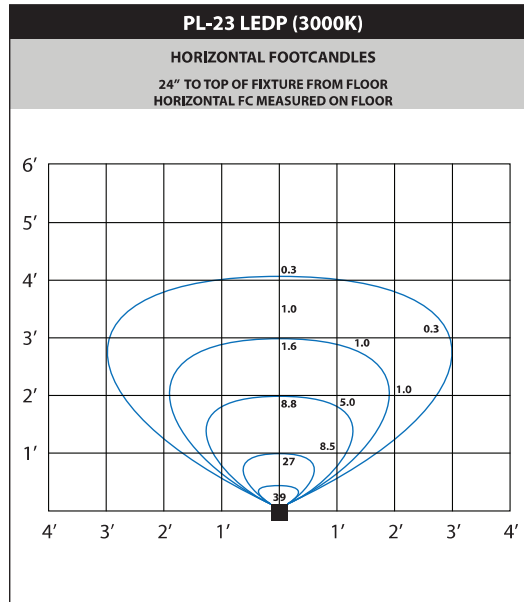
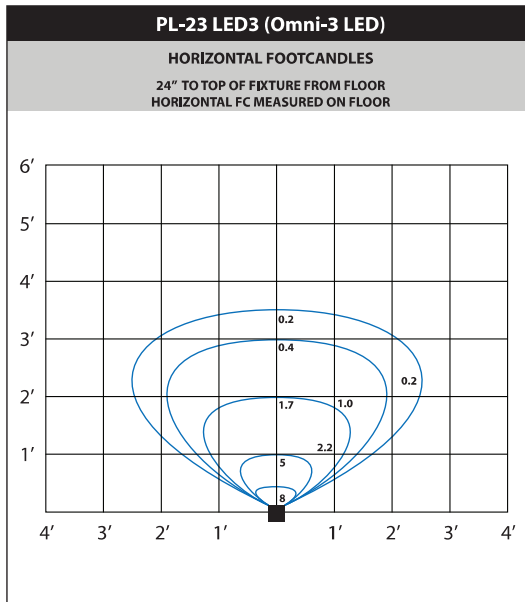


TYPE

MOUNTING ACCESSORIES



LIGHT DISTRIBUTIONS AND PHOTOMETRICS



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

PL-23-CutSheet 020516

BRASS & COPPER ONLY

STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA

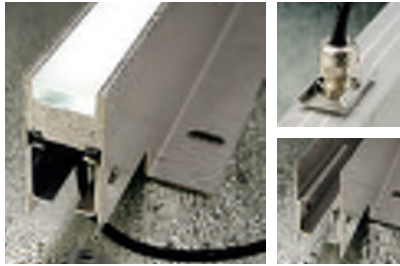


PATH LIGHT

FX-5

270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192

VarioLED™ OCEANOS White IP67/68



W824	W827	W830	W835	W840	W850
2.800 K	3.100 K	3.500 K	4.100 K	4.700 K	6.500 K

3
4
5
6
7

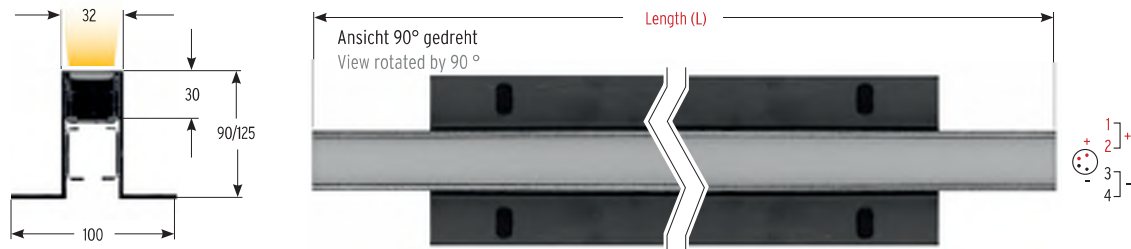
9,6 Watt/meter

304/316 L Stainless Steel

Walk/Roll over (30 kN)

IP67/68

Abmessungen & Längen Dimensions & available length



IP Rating: IP67/68

Oberfläche: Edelstahl Finish: Stainless Steel Tc-Punkt: Rückseite des Moduls Tc-point: Rear side of module

Elektrische & Optische Betriebsdaten Electrical & optical data

Abmessungen (Leuchte) Dimensions (Luminaire)	510/1.010 x 30 mm x 30 mm
Leistung Power	9,6 W/meter
Spannung Voltage (V)	24 Volt (23 V _{min} , 25 V _{max})
Temperatur Temperature	t _{cmin} = -25°C, t _{cmax} = +50°C
Lagertemp. Storage temp.	t _{min} = -30°C, t _{max} = +85°C
Außentemperatur Ambient temp.	t _a > -25°C, t _a <max = +45°C



Lebensdauer
Lifetime

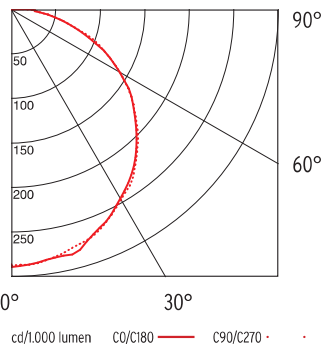


LM 79 konform
LM 79 compliant



LM 80 konform
LM 80 compliant

Nähere Erläuterungen zu Änderungen, Grenzwerten und Schwankungen im Herstellungsprozess finden Sie im LED Linear™ Systemkatalog, Seite 532.
For more details regarding catalogue changes, min and max data sheet values and production tolerances see the LED Linear™ system catalogue, page 533.



VarioLED™ OCEANOS White IP67/68	Farbtemperatur* Color temperature* (K)	510 mm 1.010 mm	
		lumen (lm)	
W824	2.800	57	114
W827	3.100	63	126
W830	3.500	69	138
W835	4.100	72	145
W840	4.700	74	148
W850	6.500	75	149

*Bei IP67 Produkten können Toleranzen bei der Farbtemperatur auftreten. Nähere Erläuterung dazu finden Sie auf S. 584.
*In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see page 584.

Ausschreibungstext Specification text



Version aus Edelstahl (304/1.4301/V2A) mit Schutzart IP67, zweiseitig 300 mm Ölflex Kabel mit verschraubbaren IP67 Steckverbindern.

Version aus Edelstahl (316L/1.4404/V4A) mit Schutzart IP68, einseitig 5 m Ölflex Kabel mit offenem Ende. Geeignet zusätzlich für den Einbau auch unter Wasser.

Version in stainless steel (304/1.4301/V2A) in IP67 with 300 mm oil flex cable on both ends with IP67 screw on connectors.

Version in stainless steel (316L/1.4404/V4A) in IP68 with one-sided 5 m oil flex cable with open end. Also suitable for permanent submersed installation.

VarioLED™ OCEANOS White IP67/68

24 V, dimmbare, lineare, voll vergossene LED Leuchte aus Edelstahl (304/1.4301/V2A oder 316L/1.4404/V4A). Geeignet für den Bodeneinbau im Innen- und Außenbereich. Einbau in Fahrbahnen und Parkplätze gemäß DIN EN 60598-2-13. Begehbar, sowie überrollbar von Fahrzeugen mit luftgefüllten Reifen (einschließlich LKW im Lieferverkehr).

Qualitativ hochwertiges und homogenes Licht über die gesamte Lichtaustrittsfläche. Japanische LED, 9,6 W/m und bis zu 149 lm/m. Ra 85. Binning 3 MacAdam. L80 von 53.000 h.

Zweiteilige Ausführung, bestehend aus LED Leuchte und Montagerahmen. Montagerahmen beinhaltet Montagewinkel und Bohrungen. Optisch- und mechanisch anreihbar. Winkelanordnung bis 90° möglich.

Statische Druckbelastung:

30 kN nach DIN EN 60598-2-13.

Abmessungen (L x B x H):

LED Leuchte: 510/1.010 x 30 x 30 mm

Montagerahmen niedrig: 510/1.010 x 100 x 90 mm

Montagerahmen hoch: 510/1.010 x 100 x 125 mm

Endmontagerahmen mit Verschluss-Stück je 34 mm länger. Made in Germany.

VarioLED™ OCEANOS White IP67/68

24 V, dimmable fully encapsulated linear lighting fixture made of stainless steel (304/1.4301/V2A or 316L/1.4404/V4A). For indoor and outdoor in-ground installation. Suitable for installation into roads and parking lots according to EN 60598-2-13. To be walked on and traversed by vehicles with air filled tires (including trucks used for delivery).

High quality and homogeneous light over entire emission surface. Japanese LED, 9.6 W/m and up to 149 lm/m. CRI 85. Binning 3 MacAdam. L80 of 53,000 hrs.

Two-part version, consisting of LED luminaire and mounting frame. Tool-less installation of the luminaire into the mounting frame. Mounting frame with angle brackets and drill holes. Can be lined up optically and mechanically with angles up to 90° possible.

Static pressure load:

30 kN according to DIN EN 60598-2-13.

Dimensions (L x W x H):

LED luminaire: 510/1.010 x 30 x 30 mm

Low mounting frame: 510/1.010 x 100 x 90 mm

High mounting frame: 510/1.010 x 100 x 125 mm

Mounting end frame 34 mm longer than standard mounting frame. Made in Germany.

Bestellnummer Order Code:

VarioLED OCEANOS xxx/x W835/xxx-IP6x

Housing material

Stainless Steel 304/1.4301/V2A/IP67 S

Stainless Steel 316 L/1.4404/V4A/IP68 L

Color temperature

2.800 K 24

3.100 K 27

3.500 K 30

4.100 K 35

4.700 K 40

6.500 K 50

Length

510 mm 510

1.010 mm 1010

Weitere Konfigurationsmöglichkeiten auf Anfrage
Further custom options on request.

Zubehör Accessories

erforderlich required



Konverter
Power supply
unit



Buchse
Female
connector

optional optional



Steuer-
protokoll
Power control
system



Einbaurahmen
Mounting frame

Details siehe ab Seite 442 und ab Seite 456.
Details on page 442 ff and page 456 ff.



reddot design award
winner 2012

Sicherheits- und Montagehinweise: LED Linear™ Systemkatalog, Seite 534 ff. Safety and assembly information: LED Linear™ system catalogue, page 536 ff.

435

STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA

KGM

INGRADE LINEAR LED UPLIGHT

FX-6

270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192

neonLEDs™

MODEL NUMBER	NLED	FIXTURE TYPE
--------------	------	--------------

FEATURES	
APPLICATIONS	Decorative Lighting
VOLTAGE	24V or 120V
LAMP TYPE	LEDs
LENGTH	24V (Max 32'), 120V (Max 150')
FINISH	White
FEED	Power Connector
MOUNTING	U-Channel or Mounting Clip
LISTING	Dry or Wet Location
DIMMING	120V- Not Dimmable 24V- 0-10V Dimming

ELECTRICAL

neonLEDs is available in 24 or 120 Volts. The 120V system does not require a remote driver. The 24V system requires a remote driver. Consult factory for driver size and recommendations.

ENERGY SAVINGS

neonLEDs provides energy savings up to 70% compared to other light sources. Traditional Neon glass fixtures operate at 15,000V and consume 8.75 watts per linear foot. NeonLEDs consumes 1.8 watts per linear foot.

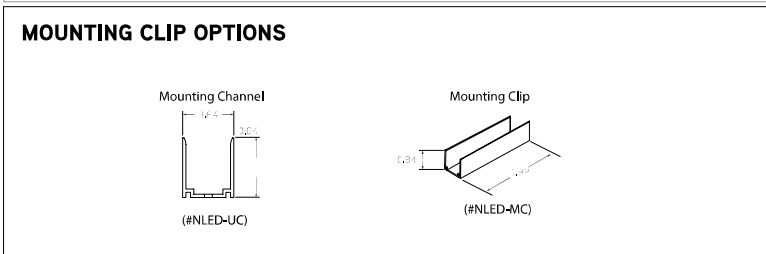
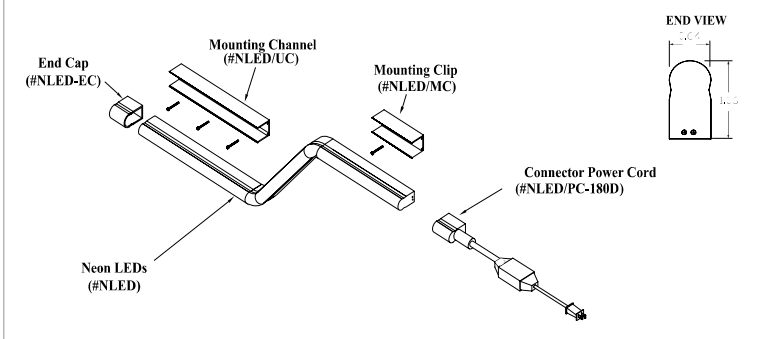
FLEXIBILITY

neonLEDs is a highly flexible LED system that allows for field shaping and designs including letters, patterns, and other applications.

POWER CORDS

(#NLED-PC-180D)

(#NLED-PC-90D)



HOW TO ORDER OR SPECIFY Product Code: (Fill in the Blanks)

NLED		1.8W	
SERIES	WATTS PER FOOT	LED	VOLTAGE
<i>Example: NLED</i>	<i>1.8W</i>	<i>LED-3.0K</i>	<i>120V</i>
NLED	1.8 Watts (1.8W)	LED-2.7K	120V
		LED-3.0K	24V
		LED-3.5K	
		LED-5.0K	
		LED-R	
		LED-G	
		LED-B	
		LED-A	
		LED-OR	

NOTE: 4000K, 45000K, 5500K, 6000K AVAILABLE WITH MINIMUM 750 FEET
 PART #: NLED-UC - ALUMINUM U-CHANNEL (MOUNTING CHANNEL)
 PART #: NLED-UC-PVC - PVC U-CHANNEL (MOUNTING CHANNEL)

LED SPECIFICATIONS

LAMP NUMBER	DESCRIPTION	L70 LED LIFE	LUMENS PER FOOT	120V MAXIMUM RUN	120V CUT INCREMENTS	24 MAXIMUM RUN	24V CUT INCREMENTS
LED-2.7K	Warm White LEDs 2700K	50,000 hrs.	20	150'	19.5"	32'	4"
LED-3.0K	Warm White LEDs 3000K	50,000 hrs.	20	150'	19.5"	32'	4"
LED-3.5K	Neutral White LEDs 3500K	50,000 hrs.	20	150'	19.5"	32'	4"
LED-5.0K	Cool White LEDs 5000K	50,000 hrs.	20	150'	19.5"	32'	4"
LED-R	Red LEDs	50,000 hrs.		150'	39.5"	32'	4"
LED-G	Green LEDs	50,000 hrs.		150'	39.5"	32'	4"
LED-B	Blue LEDs	50,000 hrs.		150'	39.5"	32'	4"
LED-A	Amber LEDs	50,000 hrs.		150'	19.5"	32'	4"
LED-OR	Orange LEDs	50,000 hrs.		150'	19.5"	32'	4"

* Tolerance ± .5" cutting increments



CALIFORNIA ACCENT LIGHTING, INC.
 2034 E. Lincoln Ave. #431, Anaheim, CA 92806
 ph. 800.921.CALI (2254) or 714.535-7900 \ fax. 714.535.7902
 info@calilighting.com \ calilighting.com

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SURFACE MOUNTED CURVABLE LINEAR LED
 WET LISTED

FX-7

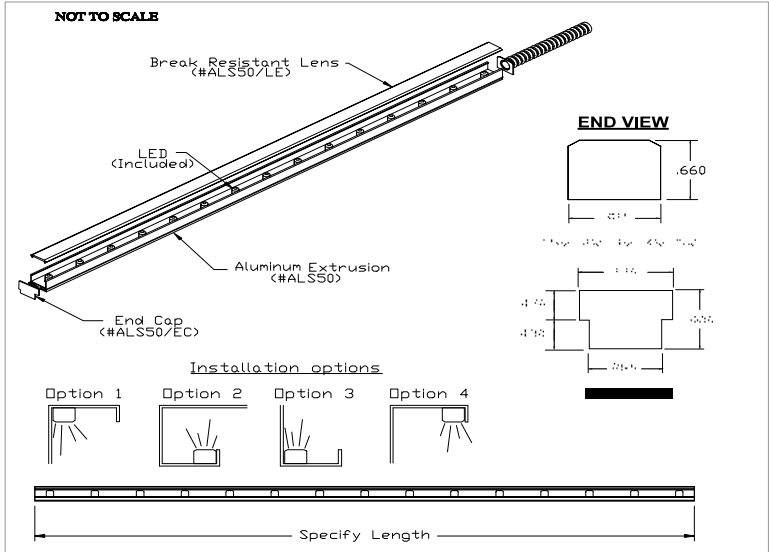
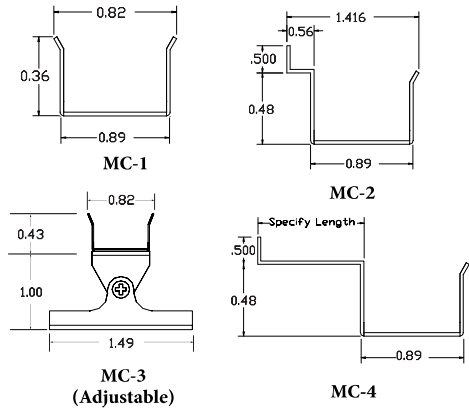
FEATURES

APPLICATIONS Accent, Cove, Under Cabinet Lighting
PRIMARY VOLTAGE 120V or 277V
SECONDARY VDC 24VDC
LAMP TYPE High, Mid & Standard Output LEDs
LENGTH Built to Order
CONSTRUCTION Aluminum Extrusion
MOUNTING Clip-on Brackets
LISTING Damp Location (Indoor/Outdoor)
CRI High Output (HO) > 90
 Mid Output (MO) > 80
 Standard Output (SO) > 80
DIMMING Forward Phase, 0-10V, DALI

ELECTRICAL

alumLEDs remote drivers (included) are available with 120V or 277V primary voltage and 24VDC secondary voltage.

MOUNTING OPTIONS



LAMP SPECIFICATIONS

LAMP NUMBER	DESCRIPTION	L70 LED LIFE	RATED LUMENS PER WATT		
			HIGH OUTPUT	MID OUTPUT	STANDARD OUTPUT
LED-2.4K	2400K Incand. White	50,000 hrs.	90	85	75
LED-2.7K	2700K Warm White	50,000 hrs.	90	85	75
LED-3.0K	3000K Warm White	50,000 hrs.	90	85	75
LED-3.5K	3500K Neutral White	50,000 hrs.	90	85	75
LED-4.0K	4000K Neutral White	50,000 hrs.	110	90	80
LED-4.5K	4500K Neutral White	50,000 hrs.	110	90	80
LED-5.0K	5000K Cool White	50,000 hrs.	110	90	80
LED-5.7K	5700K Cool White	50,000 hrs.	110	90	80

HOW TO ORDER OR SPECIFY Product Code: (Fill in the Blanks)

SERIES	FINISH	LED	WATTS PER FOOT	DIMMING	OUTPUT	DRY OR WET	PRIMARY VOLTAGE	LENGTH OF FIXTURE
<i>Example: ALS50T-F</i>	<i>WH</i>	<i>LED-2.7K</i>	<i>4WDM</i>	<i>DALI</i>	<i>HO</i>	<i>WET</i>	<i>277V</i>	<i>32"</i>
ALS50T (Clear Lens)	Natural (NA)	LED-2.4K	1.5 Watts (1.5W)	Forward Phase (FP) Only Available For Standard Output	High (HO)	Indoor (DRY)	120V	Specify Length
ALS50T-SF (Semi-Frost Lens) (50% Frosted Lens)	Polished (PA)	LED-2.7K	2 Watts (2W)		Mid (MO)	Outdoor (WET)	277V	
	White (WH)	LED-3.0K	3 Watts (3W)					
ALS50T-F (Frost Lens) (100% Frosted Lens)	Satin (SA)	LED-3.5K	4 Watts (4W)	0-10V (10V)	Standard (SO)			
	Black (BK)	LED-4.0K	5 Watts (5W)					
	Green (GN)	LED-4.5K	6 Watts (6W)	DALI				
	Red (RD)	LED-5.0K		Leave Blank For Non-Dimming				
	Silver (SR)	LED-5.7K						



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SURFACE MOUNTED LINEAR LED UPLIGHT

FX-8

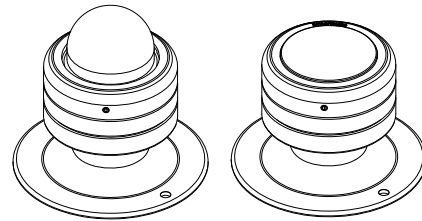
Client _____ Project name _____

Order# _____ Type _____ Qty _____

FEATURES AND BENEFITS

Physical :

- Low copper content machined aluminum housing
- Electro-statically applied polyester powder coat finish
- High impact UV protected polycarbonate lens
- Silicone sealing gasket included
- Canopy or Wall Mount mounting options
- Flat lens option
- 0,50 kg / 1,10 lbs
- IP66
- IK09 rated (Flat lens option is IK10 rated)
- Corrosion-resistant coating for hostile environments**

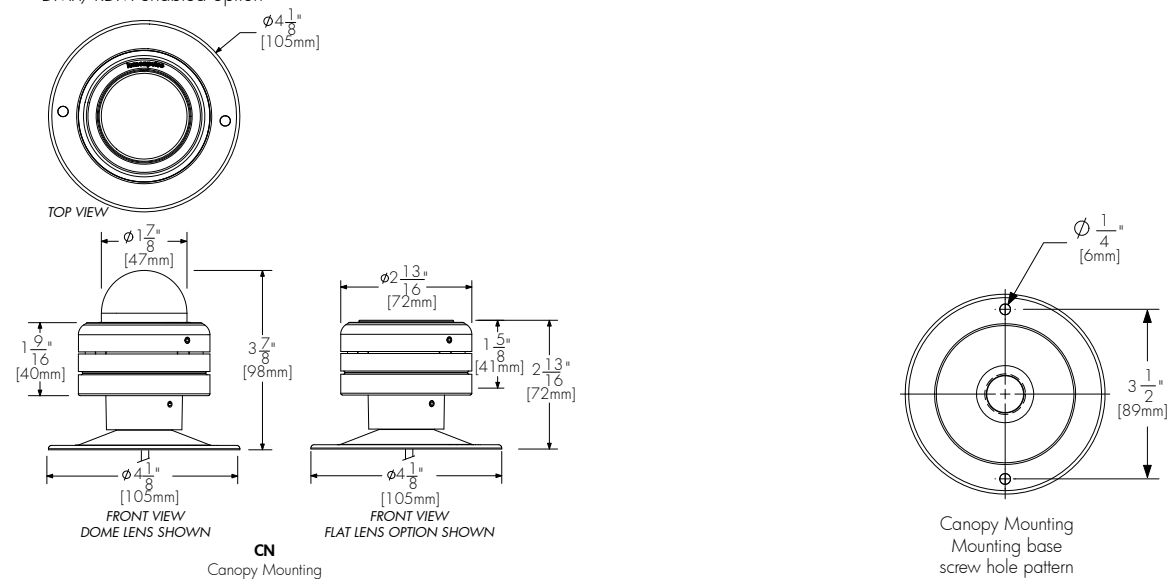


Performance :

- 2700K, 3000K, 3500K, 4000K color temperatures available
- Lumen maintenance 120,000 hrs [L70 @ 25°C]
- Operating temperatures: -25° C to 50° C [-13F to 122F]

Electrical :

- 48V DC luminaire, remote driver & data supply available for 100-277V AC (not included, see page 3 for details)
- Power and data in 1 cable, 3ft /1m cord (#18)
- 2 watts DC (total consumption varies according to remote power supply efficiency)
- DMX/RDM enabled option



* Flat lens option is IK10 rated.

** Use only when exposed to salt spray and harsh chemicals. This option is not required for normal outdoor exposure!

1/6

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1.877.937.3003
P.514.937.3003
F. 514.937.6289
info@lumenpulse.com
www.lumenpulse.com

5-year limited warranty.

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INTEGRATED POINT SOURCE LED AT GREEN WALLS

FX-10

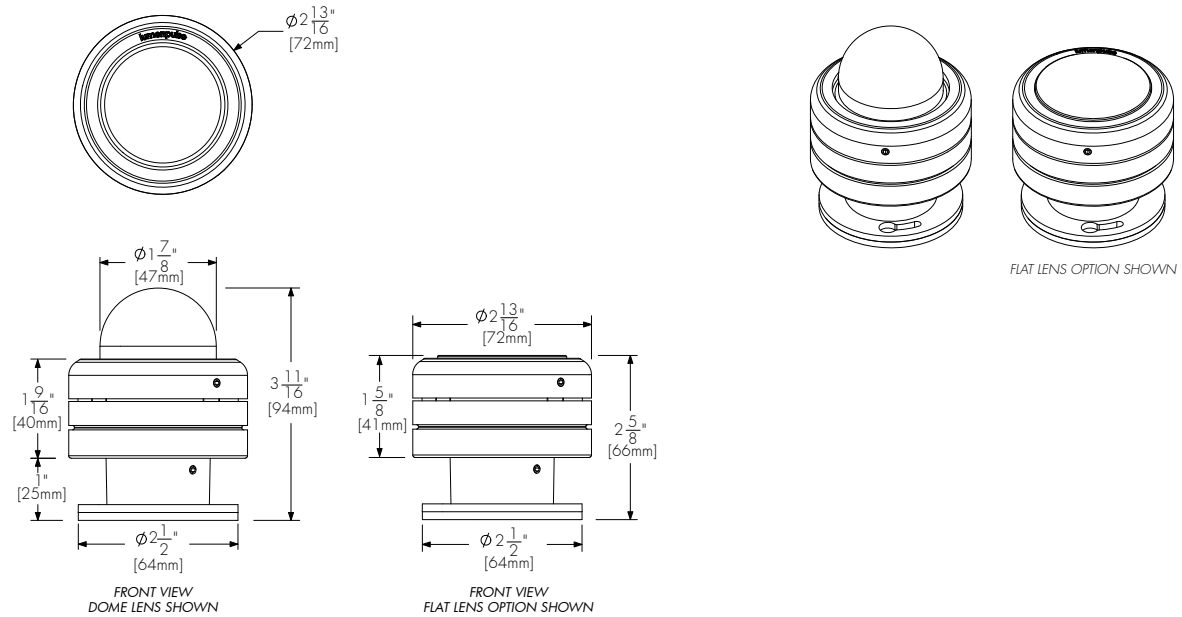
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Specification Sheet

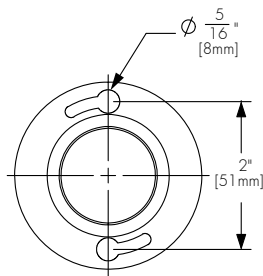
lumendome™

NANO
WHITE

WALL MOUNTING OPTION



WM
Wall Mount Option



Wall Mount Option
Mounting base
screw hole pattern

2/6

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INTEGRATED POINT SOURCE LED AT GREEN WALLS

FX-10

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Specification Sheet

lumendome™

NANO
WHITE

ACCESSORIES

Order separately

Control Systems:

- ITO2** Lumentouch is a wall mount DMX 512 controller keypad.
- LCU** Lumencue is a USB / mini SD DMX 512 controller.
- LID** LumenID is a diagnostic and addressing DMX 512 controller. It must be specified on all DMX applications. Refer to LID specification sheet for details.
- LTN** Lumentone is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

Power Supply and Dimming Boxes:

- PSX60, PSX100** Power supply box. Up to six low voltage power outputs to fixtures or fixture runs. Refer to PSX60, PSX100 specification sheet for details.

Control and Power Supply Boxes:

- CBX60, CBX100** DMX/RDM control box. Up to six low voltage power and data outputs to fixtures or fixture runs. Ethernet enabled option. Refer to CBX60, CBX100 specification sheet for details.

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INTEGRATED POINT SOURCE LED AT GREEN WALLS

FX-10

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Specification Sheet

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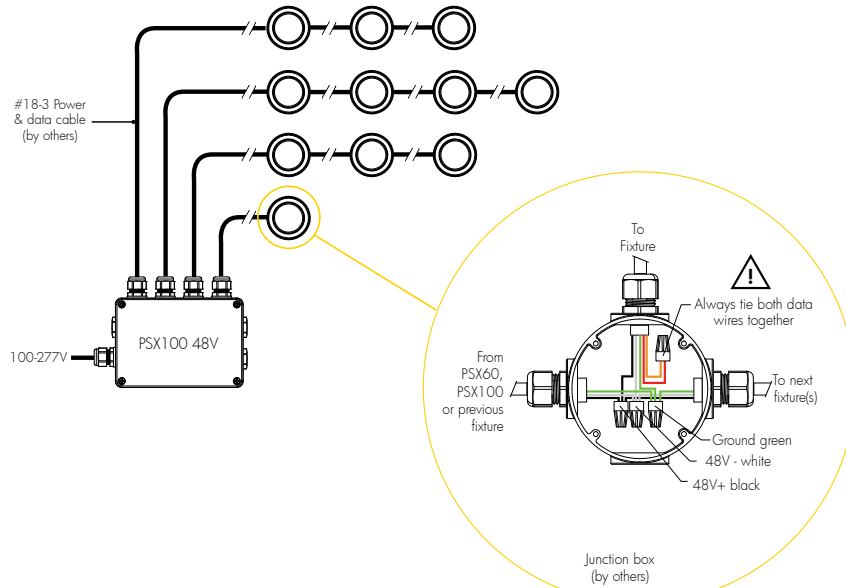
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TYPICAL WIRING DIAGRAMS

Non-Dimming Version, Star Layout

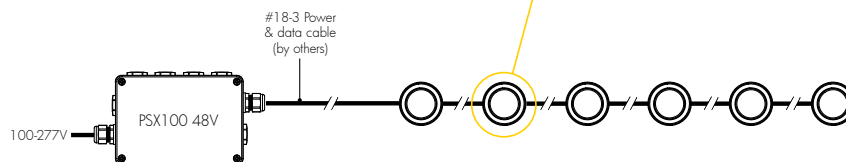
Maximum distance and quantity of fixtures per PSX100 48V:
32 lumendome nano 48V DC
(10' on center spacing) - 370' of cable maximum.

American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Power 48V +
White	Blue	Power 48V -
Red	Black	Data +
Orange	Grey	Data -



Non-Dimming Version, Daisy-Chain Layout

Maximum distance and quantity of fixtures per PSX100 48V:
32 lumendome nano 48V DC
(10' on center spacing) - 370' of cable maximum.



4/6

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INTEGRATED POINT SOURCE LED AT GREEN WALLS

FX-10

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Specification Sheet

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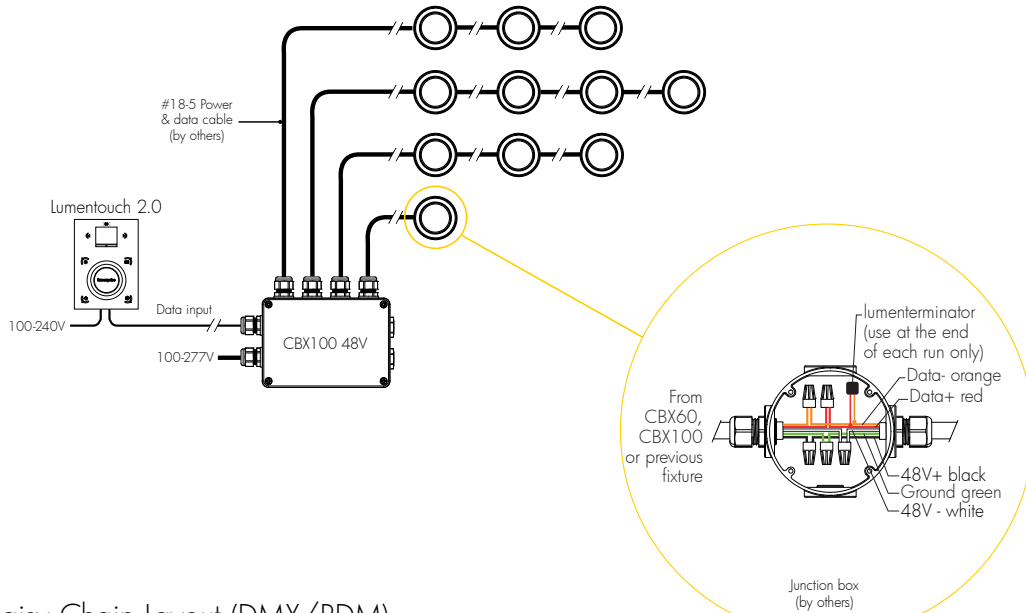
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TYPICAL WIRING DIAGRAMS - continued

Star Layout (DMX/RDM)

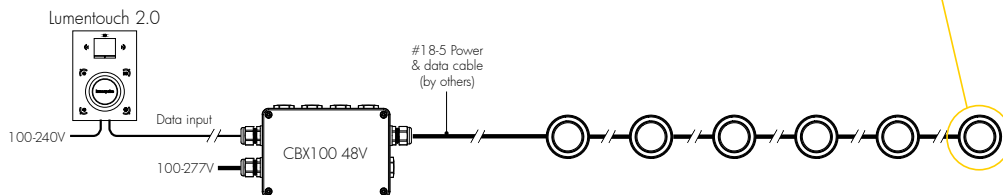
Maximum distance and quantity of fixtures per CBX100 48V:
32 lumendome nano 48V DC
(10' on center spacing) - 370' of cable maximum.

American Color Code	CE Color Code	USE
Green	Yellow/Green	Ground
Black	Brown	Power 48V +
White	Blue	Power 48V -
Red	Black	Data +
Orange	Grey	Data -



Daisy Chain layout (DMX/RDM)

Maximum distance and quantity of fixtures per CBX100 48V:
32 lumendome nano 48V DC
(10' on center spacing) - 370' of cable maximum.



5/6

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P.514.937.3003
F. 514.937.6289
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INTEGRATED POINT SOURCE LED AT GREEN WALLS

FX-10

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Specification Sheet

lumendome™

NANO
WHITE

HOW TO ORDER

LMDN | **48V** | **Select:** | **Select:** | **Select:** | **Select:** | **Select:**
1 | 2 | 3 | 4 | 5 | 6 | 7

1

Housing:

LMDN - Lumendome™ Nano

2

Voltage:

*48V DC fixture. Refer to accessory page for control & power supply box options.

3

Colors and Color temperatures:

27K - 2700K
30K - 3000K
35K - 3500K
40K - 4000K

4

Finish:

SI - Silver SandText
BK - Black SandText
WH - White
CC - Custom (please specify RAL color)

5

Control:

NO - No Dimming

DMX/RDM - DMX/RDM enabled

See page 3 for control & power supply box options, required but not included.

6

Mounting Option:

Please specify one of the following:

CN - Canopy cover mounting

WM - Wall mounting

7

Option:

FTL - Flat Lens

CRC - Corrosion-resistant coating for hostile environments

6/6

01/SE/2015
N.Kassabian - Rev.8

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1751 Richardson, Suite 1505
Montreal (Quebec) Canada
H3K 1G6

1.877.937.3003
P.514.937.3003
F. 514.937.6289
info@lumenpulse.com
www.lumenpulse.com

5-year limited warranty.

Consult www.lumenpulse.com
for our complete Standard Terms
and Conditions of Sales.

lumenpulse

Lumenpulse reserves the right to make changes to this product at any time without prior notice and such modification shall be effective immediately

STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



INTEGRATED POINT SOURCE LED AT GREEN WALLS

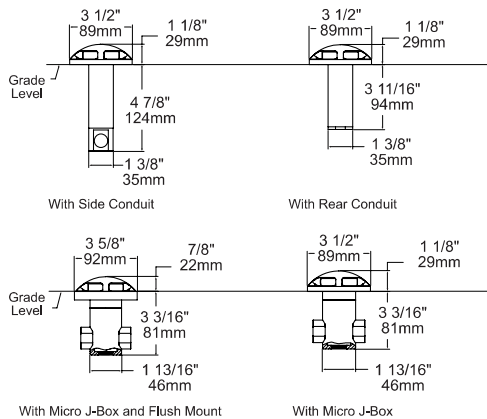
FX-10

270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192

LDM350 SONOMA



90-R-BLP



The **LDM350** directional marker is a high flux, low wattage LED luminaire. Coupled to a brass body, our Thermally Integrated™ LED Module provides superior heat dissipation, longer life and high performance. With five different illumination patterns you are provided great versatility. Stunning when used horizontally in wall applications, as a step light or wall washer.

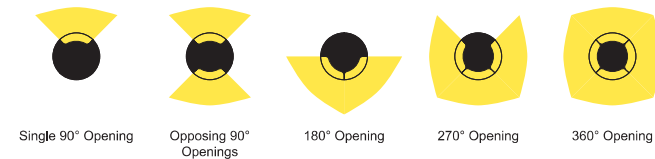
See **LDM250** for additional size and wattage options.

Features include:

- 4 Watts
- Cree XLAMP® Extreme High Power (XHP) LED
- 2700, 3000 or 4000K (CRI 80 typ.)
- Thermally Integrated, Field Serviceable LED Module
- Recommended Spacing 10–15' O.C.
- TRIAC Dimming to <10% typ.
- 12 VAC Electronic or Magnetic
- Solid Copper and Brass Construction



BEAM PATTERNS



ORDERING GUIDE LDM350: L (LED) DM (DIRECTIONAL MARKER) 350 (MODEL)

RED INDICATES REQUIRED FIELD

○	○	○	○
BEAM PATTERN	LED	MOUNTING OPTIONS	FINISH
[90] Single 90° Opening	[27D] 2700K	[R] Rear Conduit Entry	[NAT] Natural
[90-2] Opposing 90° Openings	[30D] 3000K	[S] Side Conduit Entry	[BLP] Bronze Living Patina
[180] 180° Opening	[40D] 4000K	[MJB] Micro J-Box	[NI] Nickel PVD
[270] 270° Opening	[AMBD] Amber	[MJB-FM] Micro J-Box w/ Flush Mount*	[PC] Powder Coat- Specify Color
[360] 360° Opening			
	[D] = Dimmable	*Recommended for wall wash applications	



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STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



INGRADE PATH LIGHT

FX-11

auroralight



TYPE:
CAT. # LHL50



NAT



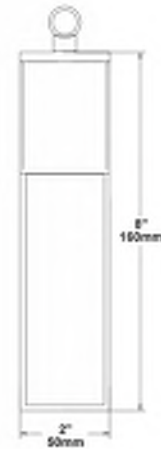
MK

12 VOLT
Remote
Transformer
Required



LHL50 CANDELA

The Candela provides a soft glow of warm white light; when hung in tree canopies the effect is majestic. It also has a translucent Lexan outer diffuser that is impact resistant and completely UV stabilized to provide years of service. Precise machining coupled with careful engineering addresses thermal management requirements and ensures high performance and reliability. The Candela has an integral LED driver that allows it to operate on standard 12 volt systems with no additional hardware needed. The diffuser, LED and interchangeable optic are all field serviceable. Classic Auroralight quality and performance. Manufactured exclusively in the USA by Auroralight and covered by our Lifetime Warranty.



ORDERING GUIDE: LHL50

L (LED) HL (HANGING LIGHT) 50 (50MM)

RED INDICATES REQUIRED FIELD



SSL SPECIFICATIONS:

<p>Light Source: Cree XRE, G4 Typical</p> <p>LED Driver: Integral, Adaptive IC w/ Dim. Decoder</p> <p>Dimming: TRIAC dimming to <math>\pm 10\%</math> Typical [D]</p> <p>Over-current Protection: Surge Suppression w/ Auto Reset</p> <p>Ambient Temperature range: -13 to 140F (-25 to 60C)</p> <p>Over-Temp Protection: Temperature monitoring w/ Auto Dim.</p>	<p>Source Compatibility: Electronic or Magnetic 12-15v</p> <p>Current Rating: 700ma (.7 Amps)</p> <p>LED Life (L70): 50,000 hours average</p> <p>Input Voltage: 10 to 15V AC, Self Regulating</p> <p>Power Factor: >0.90 Typical</p> <p>CR: 80 Typical</p>
---	---



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CABLE MOUNTED DOWNLIGHT FIXTURE

FX-12

270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192

Wall luminaires with directed light

Housing: One piece die-cast aluminum supplied with universal mounting bracket for direct attachment to 3½" or 4" octagonal wiring box. Die castings are marine grade, copper free (≤ 0.3% copper content) A360,0 aluminum alloy.

Enclosure: One piece die-cast aluminum cover frame secured by captive socket head, stainless steel screws threaded into stainless steel inserts. Semi-specular, anodized aluminum internal reflector. Stippled tempered clear glass. Fully gasketed for weather tight operation using a molded silicone rubber O-ring gasket.

Electrical: 26W LED luminaire, 30 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: LEDs supplied with luminaire. 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

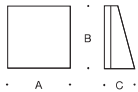
CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65

Weight: lbs.

Luminaire Lumens: 1598

Tested in accordance with LM-79-08

Type:
 BEGA Product:
 Project:
 Voltage:
 Color:
 Options:
 Modified:



Lamp	A	B	C
3242 LED <small>ADA</small> 26W LED	8	8	3¾



BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com
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STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



SURFACE MOUNTED DOWNLIGHT

FX-13

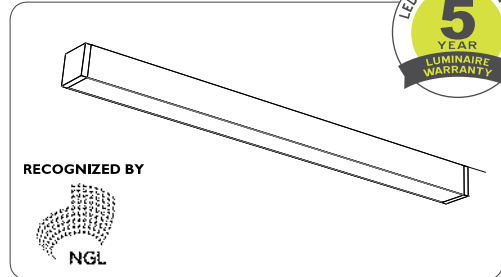
270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192

● PROJECT INFORMATION

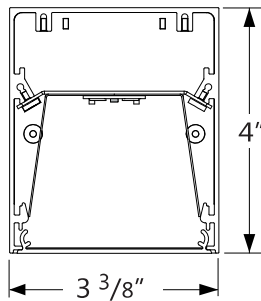
Project: _____

Type: _____

Notes: _____



● DIMENSIONS -SECTION VIEWS



PERFORMANCE PER LINEAR FOOT AT 4000K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY
400 lm/ft	3.3 W/ft	122 lm/W
500 lm/ft	4.3 W/ft	117 lm/W
750 lm/ft	6.8 W/ft	109 lm/W
1000 lm/ft	9.5 W/ft	105 lm/W

* Based on a 4 foot luminaire using one driver
 Please consult factory for customize lumen output and wattage.



*Check the latest update on the DLC website for complete information. Not all versions may be DLC qualified.



● ORDERING CODE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----

● PRODUCT SPECIFICATIONS

1 PRODUCT ID	2 VERSION	3 LIGHT ENGINE	4 NOM. LUMENS/FT	5 CRI	6 COLOR TEMP.	7 SHIELDING	8 LENGTH
BMSLED surface led	B3 B3 version	MF mid flex LED	400 400 lm/ft 500 500 lm/ft 750 750 lm/ft 1000 1000 lm/ft	80 80 CRI 90 90 CRI ⁽¹⁾	30 3000 K 35 3500 K 40 4000 K	SO spotless lens	2 2' 3 3' 4 4' 5 5' 8 8' 12 12' S# System Run
(1) Not available with 4000K							
9 MR (OPTIONAL)	10 FINISH	11 VOLTAGE	12 DRIVER	13 CIRCUITS			
M16LED(#) MR 16 LED	AP aluminum paint W white BLK black C custom	120 120 V 277 277 V 347 347 V UNV universal	D dimming (0-10V) standard DP dimming (0-10V) 1% LT lutron ⁽²⁾ BI bi-level dimming O other ⁽³⁾	1 1 circuit 2 2 circuits +E(#) emergency circuit ⁽⁴⁾ +NL(#) night light circuit ⁽⁴⁾ +GTD(#) generator transfer device ⁽⁴⁾ +M MR			
Add 9" per lamp. Specify quantity Separate circuits included Requires 120V or 277V			(2) Specify system (3) Please consult factory		(4) Specify quantity		
14 MOUNTING/SUSPENSION	15 BATTERY (OPTIONAL)	16 OTHER (OPTIONAL)	17 IC CONTROLS (OPTIONAL)	18 CUSTOM (OPTIONAL)			
S surface drywall ceiling SB surface t-bar ceiling SC surface solid ceiling	B# battery pack 4' sections	F fuse ⁽⁵⁾ EF end feed FW(#) flex whip (6' std)	DS# daylight sensor OS# occupancy sensor DOS# daylight & occupancy sensor EN# enlightened integral ⁽⁶⁾ ENR# enlightened remote ⁽⁶⁾	C custom			
Requires 120V or 277V Please consult factory		(5) Requires 120V or 277V	(6) Please consult factory Specify quantity. Requires 8' blank. See pages 4-5 for more details.	Please specify			

FILE NAME: BMS.LED-B3.SPEC

March 1, 2016

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STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



SURFACE MOUNTED LINEAR LED

FX-14

● SPECIFICATIONS

CONSTRUCTION

Housing	Extruded Aluminum (0.075" nominal) up to 70% recycled content
End Cap	Sheet Steel (18 ga)
Interior Brackets	Die Formed Sheet Steel (18 ga)
Reflectors	White Powder Coated Sheet Steel (22 ga)
Blank	Extruded Aluminum (0.075" nominal)
Lens	Spotless acrylic lens

● ELECTRICAL

Lutron driver	L3D - Hi-Lume A-Series EcoSystem 3-Wire Control (1%) LDE1 - EcoSystem H-Series (1%) LDE5 - EcoSystem 5-Series (5%) LTE - Hi-Lume® A-series 2Wires Forward Phase (1%)
Other drivers	DALI - Digital Addressable Lighting Interface DMX - Digital Multiplex ELV - Electronic Low Voltage dimming LV - line voltage - Advance Mark 10 redwood - Building Intelligence Platform Xtanium SR - For wireless sensor
Emergency	Integral emergency battery pack or emergency circuit optional.
Input Voltage	120V, 277V, 347V, UNV.

i Incorporating these components may have limitations or effect the length of the luminaire, please contact factory for more details.

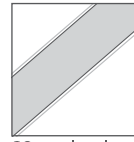
● FINISH

Powder Coated and custom finishes are also available.

● WEIGHT

4 ft	12.3 lbs / 5.0 kg
8 ft	24.6 lbs / 10.1 kg
12 ft	36.9 lbs / 15.1 kg

● OPTICS



50 spotless lens

SPOTLESS LENS

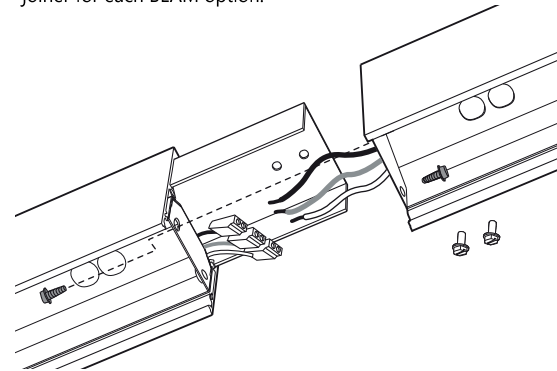
Frosted acrylic snap-in lens with micro lens

● SYSTEM (S#)

BEAM 3 linear systems, with the use of a strong profile, allow for a nearly hair thin connection system of continuous runs. Lengths of 4', 8', 12' as well as custom lengths are available. Runs of BEAM 3 that are greater than 12' in length are designated as systems (S#). This means that the run is comprised of a combination 4', 8' and/or 12' sections to be assembled on site using our joining system. For more information on systems and joining, please refer to the BEAM installation sheets available for download at www.axislighting.com.

● JOINERS

In order to allow very long runs of BEAM 3 luminaires, Axis has developed a number of different joining systems. Special care has been taken to maximize the performance of the joiner for each BEAM option.



NOTE: Mount each system segment individually. Do not assemble system prior to mounting.

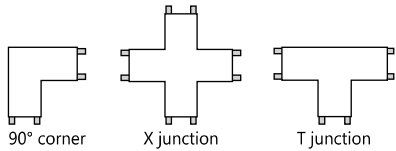
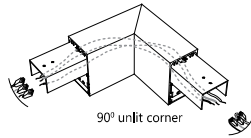
i Allow a minimum of 6" between end of long runs and vertical wall

● APPROVALS

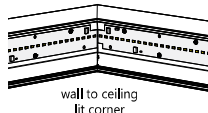
Certified to UL and CUL standards
 Meets NYC requirements
 Suitable for damp locations.

● **CORNERS**

Unlit Corners - BEAM3 features a multitude of layout patterns with the use of a number of corners, 90° corner, T or X junctions.



Lit Corners - In addition Axis offers Lit 90° Corners including Ceiling to Ceiling, Wall to Ceiling and Ceiling to Wall.



i For custom corner angles, please consult factory. Specifications sheets for all corners are available at: www.axislighting.com

● **WARRANTY**

Axis lighting will warrant defective LEDs, boards, and drivers for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specifications. If defective, Axis will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Axis.

● **OTHER MOUNTING OPTIONS**

BEAM 3 LED is also available with pendant, recessed, wall, wall vertical, recessed asymmetric and recessed vertical mounted options.

i Specification sheets and Installation sheets for all mounting for BEAM luminaires are available for download at www.axislighting.com

● **MR16 LED LAMPS**

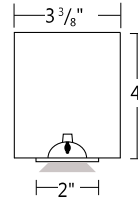
Blank MR16 LED Quantity

Extruded Aluminum (0.075" nominal) 2.0" diameter

For every 4' section, there may be up to a maximum of 4 x MR16 LED lamps.

Each MR16 LED lamp is placed centered on a blank section 9" in length.

Spacing

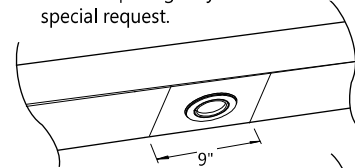


For a series of MR16's within a given section length, they will be spaced evenly on a longer blank section.

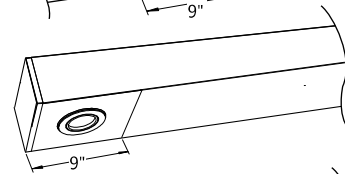
The directed light of MR16 LED lamps are fixed downward.

Custom spacing may be available on special request.

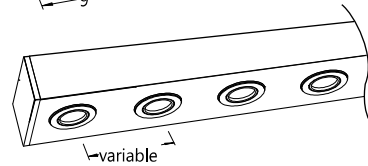
Between fluorescent lamps sections



At luminaire ends



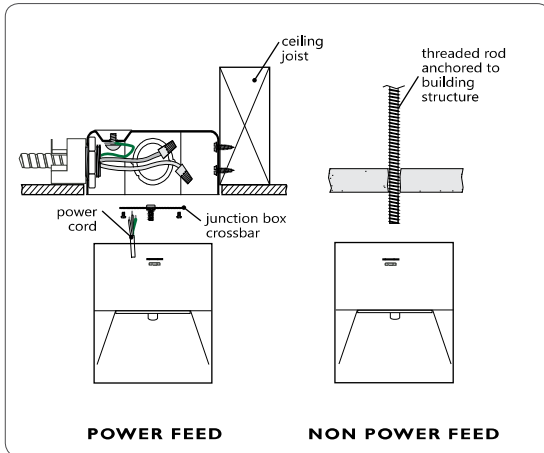
Several in a long blank section



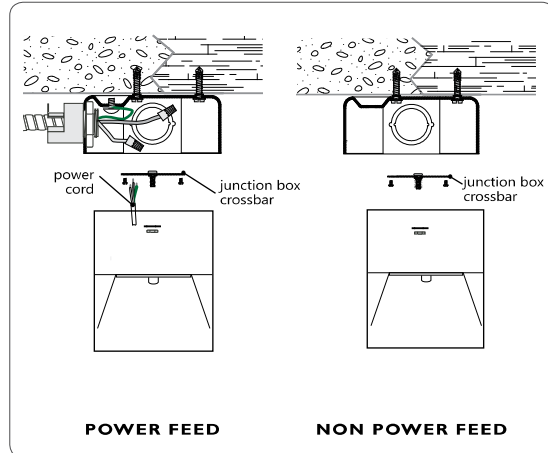
Base Type	GU 5.3
Beam Angle	40 nominal degrees
Input Watts	6W
Numinal Lumens	300 lumens
Efficacy	50 lumens per watt
Color Rendering Index (CRI)	85
Central Beam Candle Power (CBCP)	584 candelas
Life	25,000 hours at L ₇₀
Correlated color temperature (CCT)	2700K

i More options are available upon request. Please consult factory.

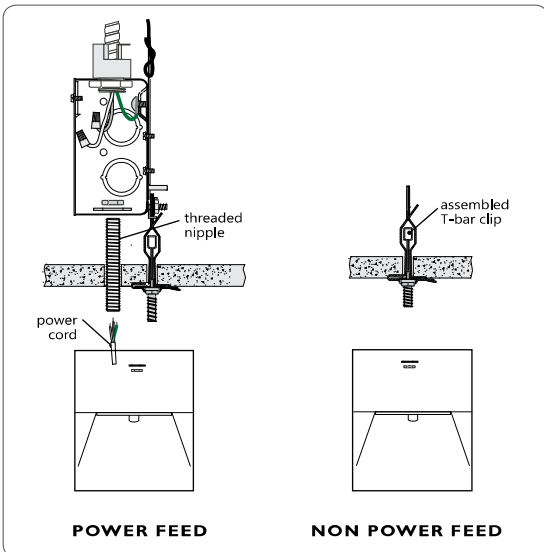
● MOUNTING DETAILS



S SURFACE MOUNT DRYWALL CEILING



SC SURFACE MOUNT SOLID CEILING



SB SURFACE MOUNT T-BAR CEILING

● OTHER MOUNTING OPTIONS

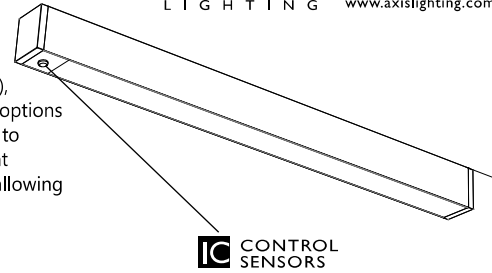
BEAM 3 LED is also available with recessed, pendant, wall and recessed wall mounted options.

i Specification sheets and Installation sheets for all mounting for BEAM luminaires are available for download at www.axislighting.com

● **INTEGRATED CONTROLS**

BEAM 3 luminaires allow the use of integrated controls such as daylight sensors (DS), occupancy sensors (OS) and combination daylight/occupancy sensors (DOS). These options can be seamlessly integrated into our luminaires. The control system could be used to optimize the lighting of the space by reducing energy consumption through daylight harvesting and occupancy, thereby improving the overall interior environment and allowing for LEED credits.

- Consult factory for other options.



The integrated control systems offered are:

● **DAYLIGHT HARVESTING (DS):**

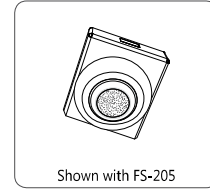
With daylight sensors, maximum lamp output is reduced according to the available amount of natural light. By reducing maximum lamp output, energy consumption is reduced by up to 20 percent in a process known as "Daylight Harvesting".



EC-DJR-WH, FD-301
Luxsense, Micro Luxsense

● **OCCUPANCY (OS):**

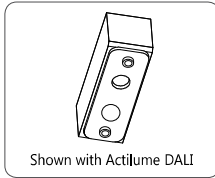
When a room is vacated, occupancy sensors ensure the light will be turned off after a programmed delay as well as ensuring that light remains on while the room is occupied.



FS-205, FS-355,
FS-155 - Line Voltage
FS-505, FS-505C

● **DAYLIGHT HARVESTING AND OCCUPANCY (DOS):**

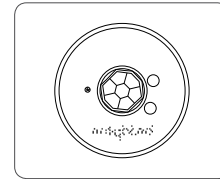
A combination of Daylight & Occupancy sensor from Philips, ACTILUME along with 0-10V or DALI ballasts can be used in one form factor.



Actilume 1-10V
Actilume DALI

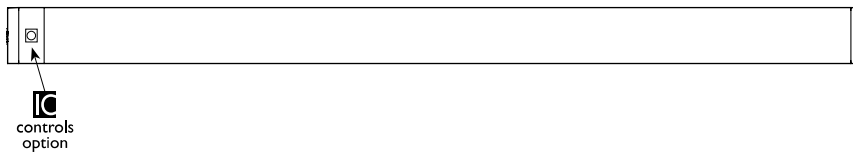
● **ENLIGHTENED INTEGRAL (EN) / ENLIGHTENED REMOTE (ENR):**

A combination of Daylight, Occupancy & Temperature autonomously control illumination levels, monitor occupancy and environmental conditions. Data is transmitted wirelessly to the Enlighted networked management system.



● **INSTALLATION EXAMPLE**

Sensor location option



* Incorporating IC controls may effect the length of the luminaire, please contact factory for more details.

FILE NAME: BMS.LED-B3.SPEC

March 1, 2016

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STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



SURFACE MOUNTED LINEAR LED

FX-14

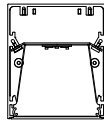
270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192

● INTEGRATED CONTROL OPTIONS

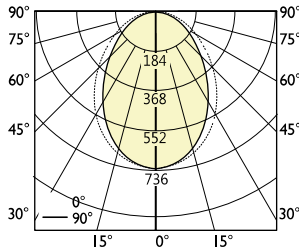
SENSORS	BRAND	Model	TYPE
Daylight Sensor (DS)	Lutron	EC-DIR-WH	Daylight, IR
	Wattstopper	FD-301	Daylight
	Philips	Luxsense, LR1220/00	Daylight
	Philips	Micro Luxsense	Daylight
	Wattstopper	LS-102	Light Saver (Ambient light level)
Occupancy Sensor (OS)	Wattstopper	FS-205v2	PIR Occupancy & Ambient light level
	Wattstopper	FS-355 (need lenses)	PIR Occupancy & Ambient light level
	Wattstopper	FS-155	PIR Occupancy & Ambient light level
	Wattstopper	FS-505	Ultrasonic Occupancy (Staircase)
	Wattstopper	FS-505C	Ultrasonic Occupancy (Open Area)
	Wattstopper	FM-105	High Frequency Occupancy (Wet)
	Lutron TriPak Wireless	LRF2-OCR2B-P-WH	PIR Occupancy
	Lutron	LOS-CDT	Ultrasonic Occupancy + PIR
Daylight & Occupancy Sensors (DOS)	Lutron	LOS-CIR	PIR Occupancy
	Philips	Actilume, LR11655	Daylight & PIR Occupancy
	Wattstopper	FS-305 (need Lenses)	PIR Occupancy
	Wattstopper	FS-305 RC	PIR Occupancy & Ambient light level
	Creston	GLS Series	Daylight and/or PIR Occupancy
Echoflex	MOS Series	Daylight and/or PIR Occupancy	
Enlighted sensor (EN, ENR)	Enlighted integral / remote	SU-3E-00	Daylight, Occupancy & temperature

● PHOTOMETRIC DATA

400 lm/ft



PHOTOMETRIC CURVE



Luminaire Lumens: 400 lm/ft
Input Watts: 3.3 W/ft
Efficacy: 122 lm/W
 IES FILE: BMSLED-B3-MF-400-80-40-SO.IES
 TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	733	733	733	733	733
5	725	728	725	728	731
15	681	682	672	666	666
25	600	594	574	557	552
35	493	483	456	430	422
45	378	368	339	314	305
55	268	259	236	215	207
65	168	163	148	134	128
75	83	80	73	67	64
85	19	17	17	16	16
90	0	0	0	0	0

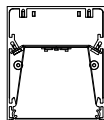
ZONAL LUMENS

Zone	Lumens
0	
0-10	69
10-20	189
20-30	264
30-40	285
40-50	263
50-60	212
60-70	147
70-80	78
80-90	20
90	

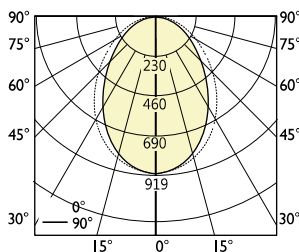
LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
0			
45	5574	4998	4492
55	4877	4290	3767
65	4147	3639	3165
75	3344	2930	2570
85	2216	2052	1888

500 lm/ft



PHOTOMETRIC CURVE



Luminaire Lumens: 500 lm/ft
Input Watts: 4.3 W/ft
Efficacy: 117 lm/W
 IES FILE: BMSLED-B3-MF-500-80-40-SO.IES
 TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	917	917	917	917	917
5	907	910	906	910	914
15	852	852	840	832	832
25	750	743	718	696	690
35	616	604	570	538	527
45	473	460	424	392	381
55	335	324	295	269	259
65	210	203	184	167	160
75	104	100	91	83	80
85	23	21	21	21	20
90	0	0	0	0	0

ZONAL LUMENS

Zone	Lumens
0	
0-10	86
10-20	236
20-30	330
30-40	357
40-50	329
50-60	266
60-70	184
70-80	98
80-90	25
90	


LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
0			
45	6968	6247	5615
55	6096	5363	4708
65	5184	4549	3957
75	4181	3662	3213
85	2770	2565	2360

i All IES files for other lamping are available for download at: www.axislighting.com

FILE NAME: BMS.LED-B3.SPEC

March 1, 2016

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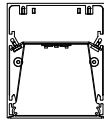
SURFACE MOUNTED LINEAR LED

FX-14

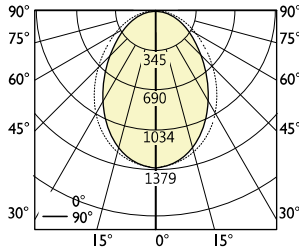
270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192

● PHOTOMETRIC DATA

750 lm/ft



PHOTOMETRIC CURVE



Luminaire Lumens: 750 lm/ft
Input Watts: 6.8 W/ft
Efficacy: 109 lm/W
 IES FILE: BMSLED-B3-MF-750-80-40-SO.IES
 TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1375	1375	1375	1375	1375
5	1360	1365	1358	1365	1371
15	1277	1279	1261	1248	1248
25	1124	1114	1077	1045	1036
35	924	906	855	807	791
45	709	690	636	588	571
55	503	486	443	404	389
65	315	305	277	251	241
75	156	151	136	125	120
85	35	32	32	31	30
90	0	0	0	0	0

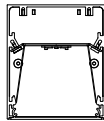
ZONAL LUMENS

Zone	Lumens
0	
0-10	129
10-20	355
20-30	496
30-40	535
40-50	493
50-60	398
60-70	276
70-80	146
80-90	38
90	

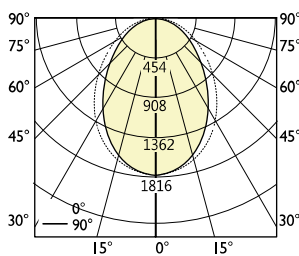
LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	10452	9371	8422
55	9144	8044	7062
65	7776	6824	5935
75	6271	5493	4820
85	4155	3847	3540

1000 lm/ft



PHOTOMETRIC CURVE



Luminaire Lumens: 1000 lm/ft
Input Watts: 9.5 W/ft
Efficacy: 105 lm/W
 IES FILE: BMSLED-B3-MF-1000-80-40-SO.IES
 TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	1834	1834	1834	1834	1834
5	1813	1820	1811	1820	1828
15	1703	1705	1681	1664	1664
25	1499	1485	1436	1393	1381
35	1232	1208	1141	1075	1055
45	945	919	847	784	762
55	671	648	590	539	518
65	420	407	369	334	321
75	208	201	182	166	160
85	46	43	43	41	39
90	0	0	0	0	0

ZONAL LUMENS

Zone	Lumens
0	
0-10	172
10-20	473
20-30	661
30-40	713
40-50	657
50-60	531
60-70	367
70-80	195
80-90	50
90	


LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	13936	12494	11230
55	12191	10726	9416
65	10368	9098	7913
75	8361	7324	6426
85	5540	5130	4720

i All IES files for other lamping are available for download at: www.axislighting.com

FILE NAME: BMS.LED-B3.SPEC

March 1, 2016

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SURFACE MOUNTED LINEAR LED

FX-14

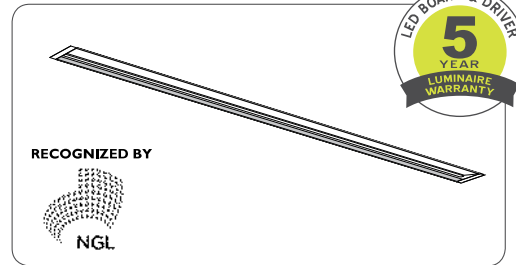
270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192

● PROJECT INFORMATION

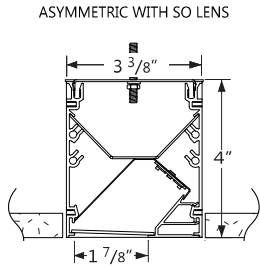
Project:

Type:

Notes:



● DIMENSIONS - SECTION VIEWS



PERFORMANCE PER LINEAR FOOT AT 4000K

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY
500 lm/ft	5.5 W/ft	90 lm/W
600 lm/ft	6.6 W/ft	90 lm/W
700 lm/ft	7.7 W/ft	90 lm/W

* Based on a 4 foot luminaire using one driver
Please consult factory for custom lumen output and wattage.



*Check the latest update on the DLC website for complete information. Not all versions may be DLC qualified.



● ORDERING CODE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----

● PRODUCT SPECIFICATIONS

1 PRODUCT ID	2 VERSION	3 LIGHT ENGINE	4 NOM. LUMENS/FT	5 CRI	6 COLOR TEMP.	7 SHIELDING	8 LENGTH
BMRLED recessed led	B3 B3 version	MF mid flex LED	400 400 lm/ft 500 500 lm/ft 750 750 lm/ft 1000 1000 lm/ft	80 80 CRI 90 90 CRI ⁽¹⁾	30 3000 K 35 3500 K 40 4000 K	ASO asymmetric with SO lens	2 2' 3 3' 4 4' 5 5' 8 8' 12 12' S# System Run

(1) Not available with 4000K

See page 2-3 for more details

9 LED DOWNLIGHT INSERT	10 FINISH	11 VOLTAGE	12 DRIVER	13 CIRCUITS	14 MOUNTING
M16LED(#) MR 16 LED	W white C custom	120 120 V 277 277 V 347 347 V UNV universal	D dimming (0-10V) standard DP dimming (0-10V) 1% LT lutron ⁽²⁾ BI bi-level dimming O other ⁽³⁾	1 1 circuit 2 2 circuits +E(#) emergency circuit ⁽⁴⁾ +NL(#) night light circuit ⁽⁴⁾ +GTD(#) generator transfer device ⁽⁴⁾ +M MR	TB9 t-bar 9/16" TB15 t-bar 15/16" ST screw slot t-bar TG9 tegular 9/16" TG15 tegular 15/16" DF drywall flange D drywall flangeless DB slip-through bracket DS drywall spackle flange

Add 9" per lamp. Specify quantity. Separate circuits included. Requires 120V or 277V

(2) Specify system
(3) Please consult factory

(4) Specify quantity

15 BATTERY (OPTIONAL)	16 OTHER (OPTIONAL)	17 IC CONTROLS (OPTIONAL)	18 CUSTOM (OPTIONAL)
B# battery pack 4' sections	F fuse ⁽⁵⁾ EF end feed FW(#) flex whip (6' std) CP chicago plenum	DS# daylight sensor OS# occupancy sensor DOS# daylight & occupancy sensor EN# enlightened integral ⁽⁶⁾ ENR# enlightened remote ⁽⁷⁾	C custom

Requires 120V or 277V. Please consult factory

(5) Requires 120V or 277V

(6) For flush option only. Please consult factory
(7) Please consult factory. Specify quantity. Requires 8" blank. See pages 8-9 for more details.

Please specify

FILE NAME: BMR.ASY LED-B3.SPEC March 8, 2016

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RECESSED LINEAR LED WALL GRAZER

FX-15

● **CONSTRUCTION**

- Housing** Extruded Aluminum (0.075" nominal)
up to 70% recycled content
- End Cap** Sheet Steel (18 ga)
- Interior Brackets** Die Formed Sheet Steel (18 ga)
- Reflectors** White Powder Coated Sheet Steel (22 ga)
- Blank** Extruded Aluminum (0.075" nominal)
- Lens** Spotless acrylic lens

- T-Bar Bracket** Die Formed Sheet Steel (16 ga)
- Screw Slot T-Bar Bracket** Die Formed Sheet Steel (16 ga)
- Slip-Through Bracket** Die Formed Sheet Steel (18 ga)
- Spackle Flange** Die Formed Perforated Sheet Steel (20 ga)
- Flange** Extruded Aluminum (0.075" nominal)
visible flange width: 9/16"

● **ELECTRICAL**


- Lutron driver** L3D - Hi-Lume A-Series EcoSystem 3-Wire Control (1%)
LDE1 - EcoSystem H-Series (1%)
LDE5 - EcoSystem 5-Series (5%)
LTE - Hi-Lume® A-series 2Wires Forward Phase (1%)
- Other drivers** DALI - Digital Addressable Lighting Interface
DMX - Digital Multiplex
ELV - Electronic Low Voltage dimming
LV - line voltage - Advance Mark 10
redwood - Building Intelligence Platform
Xitanium SR - For wireless sensor
- Emergency** Integral emergency battery pack or emergency circuit optional.
- Input Voltage** 120V, 277V, 347V, UNV.

i Incorporating these components may have limitations or effect the length of the luminaire, please contact factory for more details.

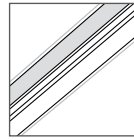
● **SYSTEM (S#)**

BEAM 3 linear systems, with the use of a strong profile, allow for a nearly hair thin connection system of continuous runs. Lengths of 4', 8', 12' as well as custom lengths are available. Runs of BEAM 3 that are greater than 12' in length are designated as systems (S#). This means that the run is comprised of a combination 4', 8' and/or 12' sections to be assembled on site using our joining system. For more information on systems and joining, please refer to the BEAM installation sheets available for download at www.axislighting.com.

● **APPROVALS**

- Certified to UL and CUL standards 
- Meets NYC requirements
- Meets CCEC requirements (Chicago plenum)
- Suitable for damp locations
- IC Rated (Insulated ceiling)

● **OPTICS**

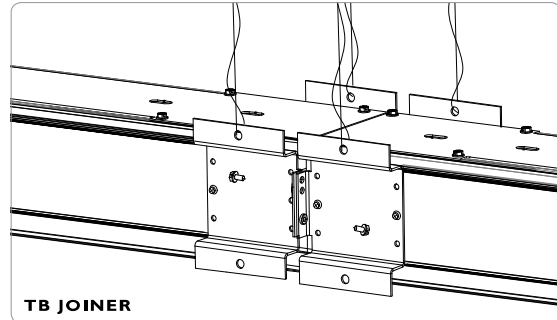


ASO asymmetric with SO lens

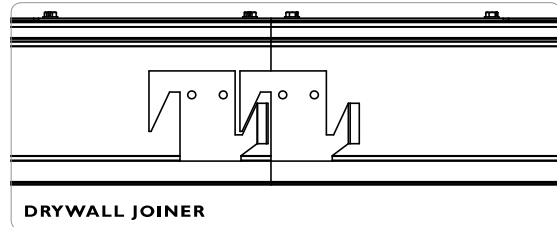
ASYMMETRIC WITH SPOTLESS LENS
(acrylic snap-in lens)
spotless: 85% trans.

● **JOINERS**

In order to allow very long runs of BEAM 3 luminaires, Axis has developed a number of different joining systems. Special care has been taken to maximize the performance of the joiner for each BEAM option.



TB JOINER



DRYWALL JOINER

NOTE: Hang each system segment individually. Do not assemble system prior to hanging.

● **FINISH**

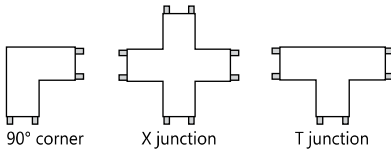
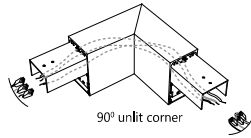
Powder Coated and custom finishes are also available.

● **WEIGHT**

4 ft	12.3 lbs / 5.0 kg
8 ft	24.6 lbs / 10.1 kg
12 ft	36.9 lbs / 15.1 kg

● **CORNERS**

Unlit Corners - BEAM3 features a multitude of layout patterns with the use of a number of corners, 90° corner, T or X junctions.



i For custom corner angles, please consult factory. Specifications sheets for all corners are available at: www.axislighting.com

● **WARRANTY**

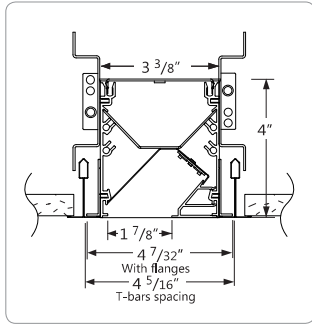
Axis lighting will warrant defective LEDs, boards, and drivers for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specifications. If defective, Axis will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Axis.

● **OTHER MOUNTING OPTIONS**

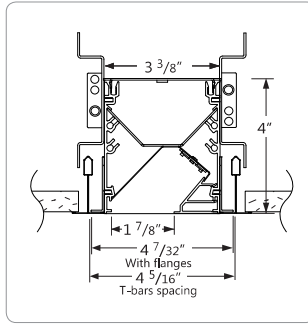
BEAM 3 LED is also available with pendant, recessed, surface, wall, wall vertical and recessed vertical mounted options.

i Specification sheets and Installation sheets for all mounting for BEAM luminaires are available for download at www.axislighting.com

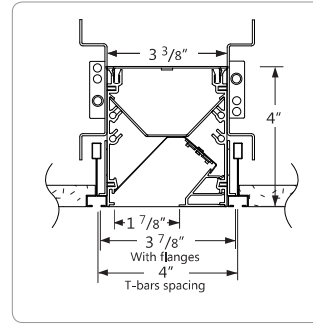
● **TB CEILING MOUNTING OPTIONS**



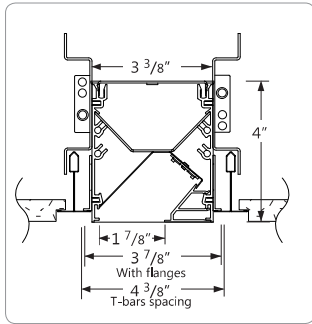
TB15 15/16" T-BAR



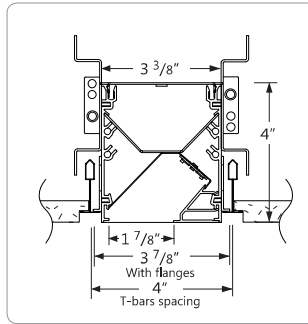
TB9 9/16" T-BAR



ST SCREW SLOT T-BAR

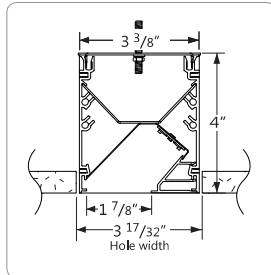


TG15 15/16" TEGULAR

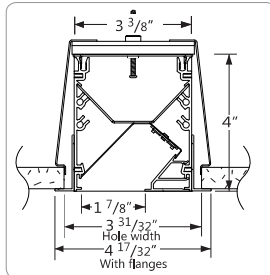


TG9 9/16" T-TEGULAR

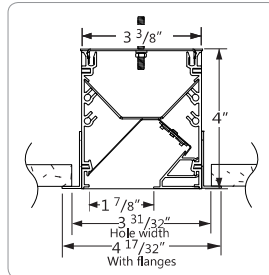
● **DRYWALL CEILING MOUNTING OPTIONS**



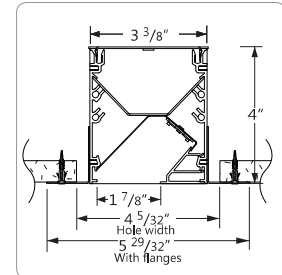
D FLANGELESS WITH 1/4-20 STUD MOUNTING



DB VISIBLE FLANGES WITH SLIP-THROUGH BRACKET



DF VISIBLE FLANGES WITH 1/4-20 STUD MOUNTING



DS SPACKLE FLANGES

● **OTHER MOUNTING OPTIONS**

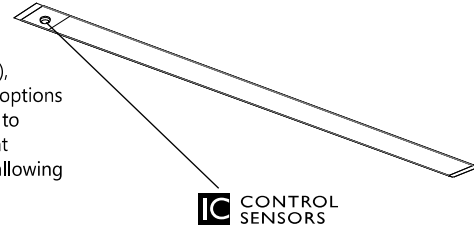
BEAM 3 LED is also available with pendant, surface, wall and recessed wall mounted options.

i Specification sheets and Installation sheets for all mounting for BEAM luminaires are available for download at www.axislighting.com

● **INTEGRATED CONTROLS**

BEAM 3 luminaires allow the use of integrated controls such as daylight sensors (DS), occupancy sensors (OS) and combination daylight/occupancy sensors (DOS). These options can be seamlessly integrated into our luminaires. The control system could be used to optimize the lighting of the space by reducing energy consumption through daylight harvesting and occupancy, thereby improving the overall interior environment and allowing for LEED credits.

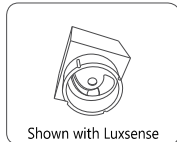
- Consult factory for other options.



The integrated control systems offered are:

● **DAYLIGHT HARVESTING (DS):**

With daylight sensors, maximum lamp output is reduced according to the available amount of natural light. By reducing maximum lamp output, energy consumption is reduced by up to 20 percent in a process known as "Daylight Harvesting".



Shown with Luxsense
EC-DJR-WH, FD-301
Luxsense, Micro Luxsense

● **OCCUPANCY (OS):**

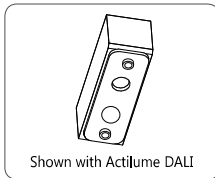
When a room is vacated, occupancy sensors ensure the light will be turned off after a programmed delay as well as ensuring that light remains on while the room is occupied.



Shown with FS-205
FS-205, FS-355,
FS-155 - Line Voltage
FS-505, FS-505C

● **DAYLIGHT HARVESTING AND OCCUPANCY (DOS):**

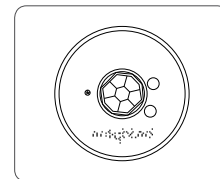
A combination of Daylight & Occupancy sensor from Philips, ACTILUME along with 0-10V or DALI ballasts can be used in one form factor.



Actilume 1-10V
Actilume DALI

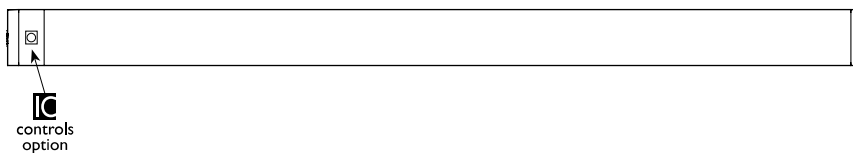
● **ENLIGHTENED INTEGRAL (EN) / ENLIGHTENED REMOTE (ENR):**

A combination of Daylight, Occupancy & Temperature autonomously control illumination levels, monitor occupancy and environmental conditions. Data is transmitted wirelessly to the Enlighted networked management system.



● **INSTALLATION EXAMPLE**

Sensor location option



* Incorporating IC controls may effect the length of the luminaire, please contact factory for more details.

FILE NAME: BMR.ASY LED-B3.SPEC March 8, 2016

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RECESSED LINEAR LED WALL GRAZER

FX-15

● INTEGRATED CONTROL OPTIONS

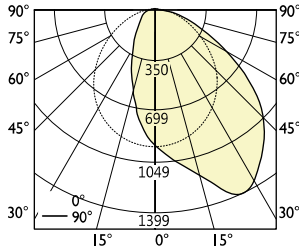
SENSORS	BRAND	Model	TYPE
Daylight Sensor (DS)	Lutron	EC-DIR-WH	Daylight, IR
	Wattstopper	FD-301	Daylight
	Philips	Luxsense, LR1220/00	Daylight
	Philips	Micro Luxsense	Daylight
	Wattstopper	LS-102	Light Saver (Ambient light level)
Occupancy Sensor (OS)	Wattstopper	FS-205v2	PIR Occupancy & Ambient light level
	Wattstopper	FS-355 (need lenses)	PIR Occupancy & Ambient light level
	Wattstopper	FS-155	PIR Occupancy & Ambient light level
	Wattstopper	FS-505	Ultrasonic Occupancy (Staircase)
	Wattstopper	FS-505C	Ultrasonic Occupancy (Open Area)
	Wattstopper	FM-105	High Frequency Occupancy (Wet)
	Lutron TriPak Wireless	LRF2-OCR2B-P-WH	PIR Occupancy
	Lutron	LOS-CDT	Ultrasonic Occupancy + PIR
Daylight & Occupancy Sensors (DOS)	Philips	Actilume, LR11655	Daylight & PIR Occupancy
	Wattstopper	FS-305 (need Lenses)	PIR Occupancy
	Wattstopper	FS-305 RC	PIR Occupancy & Ambient light level
	Creston	GLS Series	Daylight and/or PIR Occupancy
	Echoflex	MOS Series	Daylight and/or PIR Occupancy
Enlighted sensor (EN, ENR)	Enlighted integral / remote	SU-3E-00	Daylight, Occupancy & temperature

● PHOTOMETRIC DATA

700 lm/ft
 With SO lens



PHOTOMETRIC CURVE



Luminaire Lumens: 700 lm/ft
Input Watts: 7.7 W/ft
Efficacy: 90 lm/W
 IES FILE: BMRLED-B3-MF-700-80-35-ASO.IES
 TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	940	940	940	940	940
5	1020	1013	995	968	937
15	1183	1150	1080	997	904
25	1399	1349	1176	985	834
35	1271	1263	1212	946	731
45	1053	1044	1018	858	595
55	731	742	744	671	433
65	376	398	438	414	262
75	154	164	188	185	120
85	32	33	37	39	23
90	0	0	0	0	0

ZONAL LUMENS

Zone	Lumens
0	
0-10	88
10-20	251
20-30	390
30-40	471
40-50	474
50-60	398
60-70	263
70-80	127
80-90	29
90	

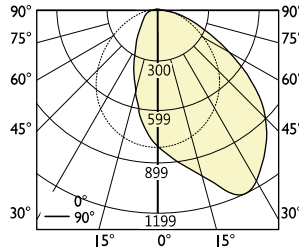
LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
0			
45	28103	27192	15899
55	24059	24476	14243
65	16805	19548	11712
75	11232	13721	8744
85	6967	8022	5067

600 lm/ft
 With SO lens



PHOTOMETRIC CURVE



Luminaire Lumens: 600 lm/ft
Input Watts: 6.6 W/ft
Efficacy: 90 lm/W
 IES FILE: BMRLED-B3-600-80-35-ASO.IES
 TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	806	806	806	806	806
5	875	868	853	830	803
15	1014	986	926	855	775
25	1199	1156	1008	845	715
35	1089	1083	1039	811	627
45	902	895	873	735	510
55	627	636	637	576	371
65	322	341	375	355	225
75	132	140	161	159	103
85	28	28	32	33	20
90	0	0	0	0	0

ZONAL LUMENS


Zone	Lumens
0	
0-10	76
10-20	215
20-30	335
30-40	404
40-50	406
50-60	341
60-70	225
70-80	109
80-90	25
90	

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
0			
45	24088	23307	13628
55	20622	20980	12208
65	14405	16756	10038
75	9628	11760	7495
85	5972	6876	4343

i All IES files for other lamping are available for download at: www.axislighting.com

FILE NAME: BMR.ASY LED-B3.SPEC March 8, 2016

Product design and development is an ongoing process at Axis Lighting. We reserve the right to change specifications. Contact Axis for the latest product information.  © 2012 Axis Lighting Inc. Page: 7 / 8

STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



RECESSED LINEAR LED WALL GRAZER

FX-15

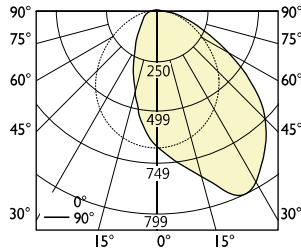
270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192

● **PHOTOMETRIC DATA**

500 lm/ft
With SO lens



PHOTOMETRIC CURVE



Luminaire Lumens: 500 lm/ft
Input Watts: 5.5 W/ft
Efficacy: 90 lm/W
IES FILE: BMRLED-B3-500-80-35-ASO.IES
TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	672	672	672	672	672
5	729	723	711	691	669
15	845	821	771	712	646
25	999	963	840	704	596
35	908	902	866	676	522
45	752	746	727	613	425
55	522	530	531	480	309
65	269	284	313	296	187
75	110	117	134	132	86
85	23	24	26	28	17
90	0	0	0	0	0

ZONAL LUMENS

Zone	Lumens
0	63
0-10	180
10-20	279
20-30	337
30-40	338
40-50	284
50-60	188
60-70	91
70-80	21
80-90	0
90	0

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
45	20073	19423	11356
55	17185	17483	10174
65	12004	13963	8365
75	8023	9800	6246
85	4976	5730	3619

i All IES files for other lamping are available for download at: www.axislighting.com

FILE NAME: BMR.ASY LED-B3.SPEC March 8, 2016

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RECESSED LINEAR LED WALL GRAZER

FX-15

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Sketch

ÉCLAIRAGE
axis
LIGHTING

1.800.263.AXIS
[T] 514.948.6272
[F] 514.948.6271
www.axislighting.com

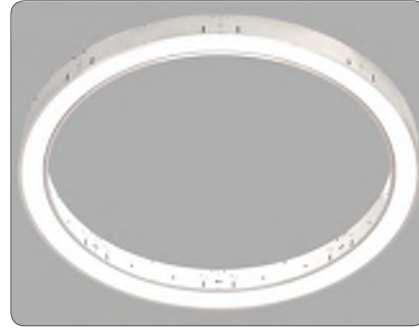


PROJECT INFORMATION

Project:

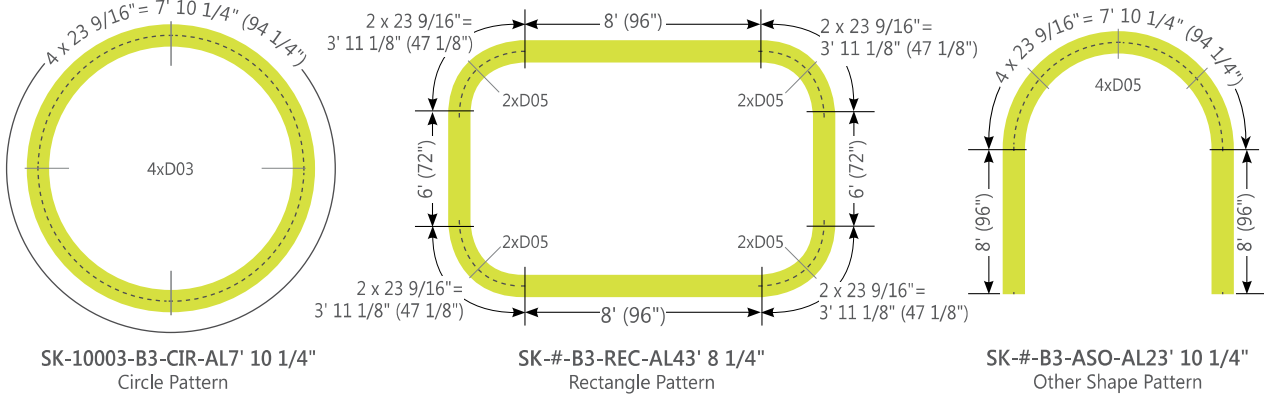
Type:

Notes:



SAMPLE ORDERING DETAIL

i Drawings are not to scale



ALL ORDERS MUST BE SUBMITTED WITH DRAWINGS INDICATING DIMENSIONS, ANGLES AND DIAMETER

ORDERING CODE

SK		B3								SO						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

PRODUCT SPECIFICATIONS

1	2	3	4	5	6	7
PRODUCT ID	PROJECT REFERENCE #	VERSION	LIGHT ENGINE	PATTERNS	LENGTH	NOM. LUMENS/FT
SK sketch recessed	10003 D03-30" diameter circle 10005 D05-60" diameter circle 10008 D08-90" diameter circle 10013 D13-150" diameter circle 10018 D18-210" diameter circle 10023 D23-270" diameter circle # for all other shapes ⁽¹⁾	B3 version 3	MF mid flex LED	REC rectangle CIR circle ARC arc section ASO other shape LIN linear run	AL# pattern length ⁽²⁾	400 400 lm/ft 700 700 lm/ft
(1) to be assigned by the factory					(2) nominal length	

8	9	10	11	12	13	14
CRI	COLOR TEMP.	SHIELDING	FINISH	VOLTAGE	DRIVER	CIRCUITS
80 80 CRI 90 90 CRI ⁽³⁾	30 3000 K 35 3500 K 40 4000 K	SO spotless lens	W white C custom	120 120 V 277 277 V 347 347 V UNV universal	D dimming (0-10V) DP dimming (0-10V) 1% LT lutron ⁽⁴⁾ BI bi-level dimming O other ⁽⁵⁾	1 1 circuit 2 2 circuits +E(##) emergency circuit ⁽⁶⁾ +NL(##) night light circuit ⁽⁶⁾ +GTD(##) generator transfer device ⁽⁶⁾
(3) Please consult factory					(4) Specify system (5) Please consult factory	
(6) Specify system						

15	16	17
MOUNTING/SUSPENSION	OTHER (OPTIONAL)	CUSTOM (OPTIONAL)
DF drywall flange DS drywall spackle flange	CP chicago plenum	C custom
Please specify		



FILE NAME:SK-B3.SPEC

March 15, 2016

i Patent pending

Product design and development is an ongoing process at Axis Lighting. We reserve the right to change specifications. Contact Axis for the latest product information. © 2013 Axis Lighting Inc. Page: 1 / 5

STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



RECESSED LED RINGS

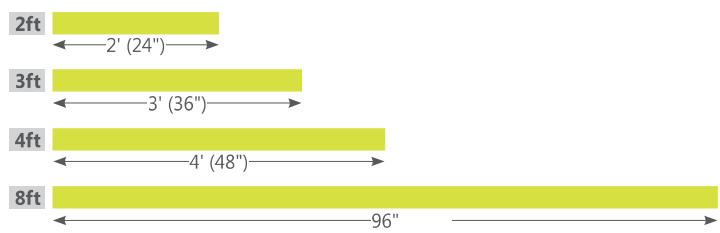
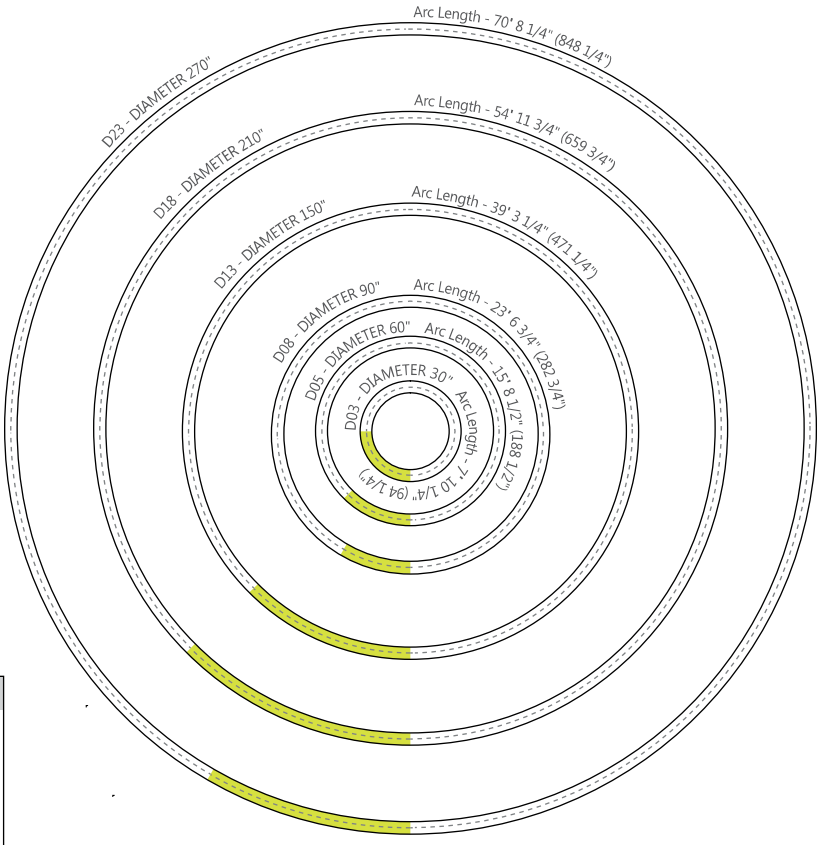
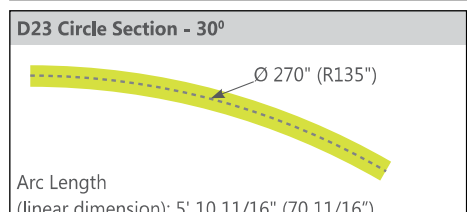
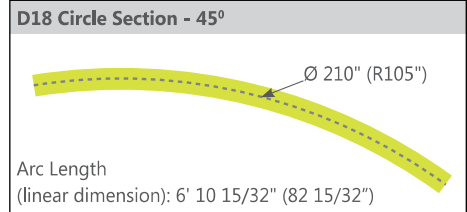
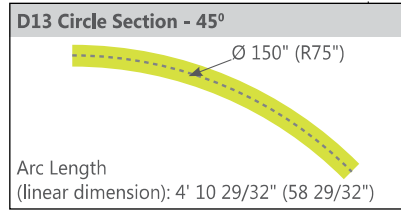
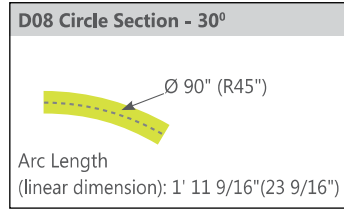
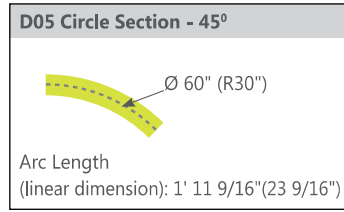
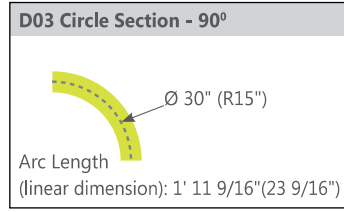
FX-16(A-C)

270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL:310.552.2191 | FAX:310.552.2192

ALL ORDERS MUST BE SUBMITTED WITH DRAWINGS INDICATING DIMENSIONS, ANGLES AND DIAMETER

● **LUMINAIRE SECTIONS**

The center line indicates the diameter at the center of the curve. Regardless to the mounting style, the centre line remains the same. This is the dimension that should be used when planning a layout.



FILE NAME:SK-B3.SPEC

March 15, 2016

Patent pending

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STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



RECESSED LED RINGS

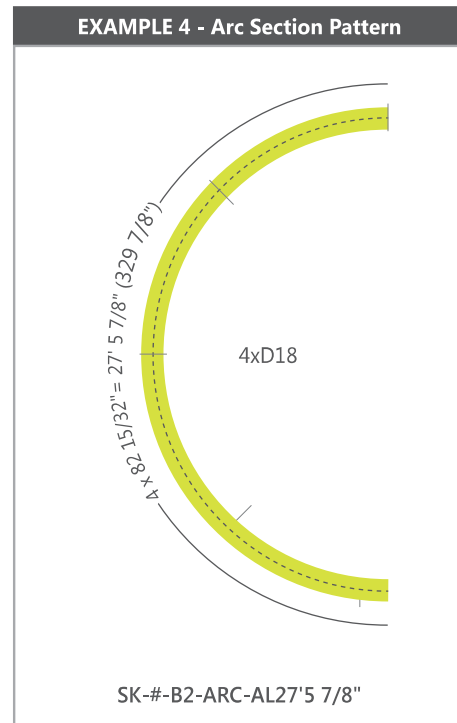
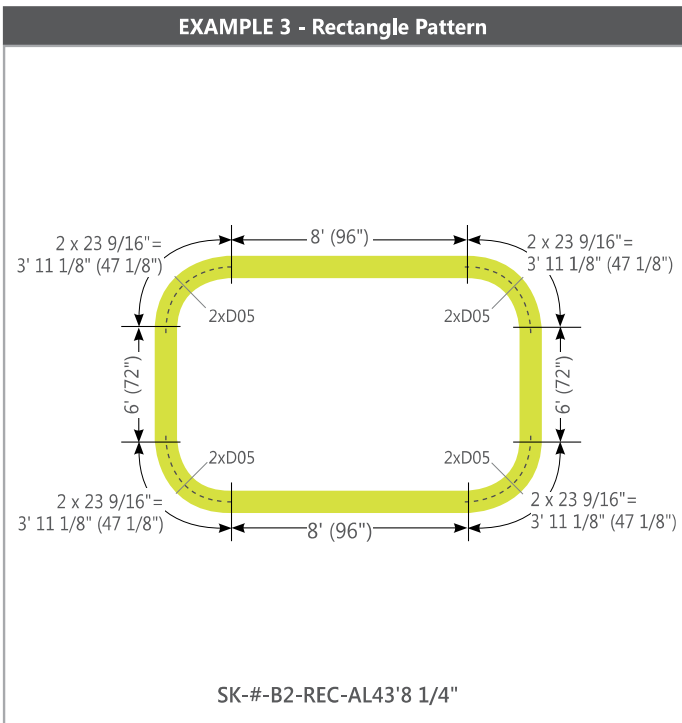
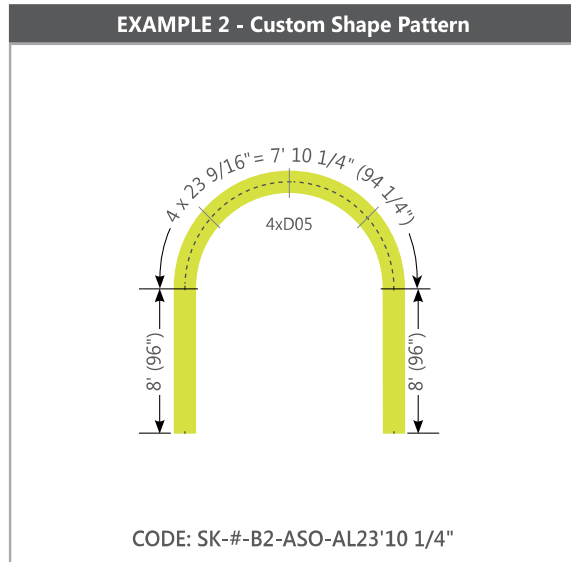
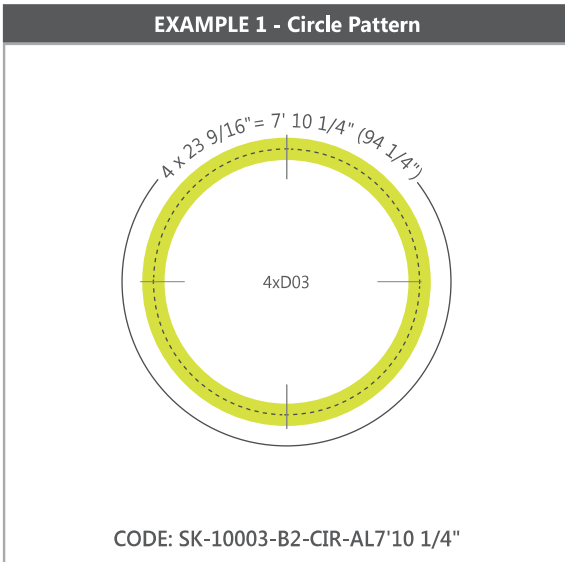
FX-16(A-C)

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ALL ORDERS MUST BE SUBMITTED WITH DRAWINGS INDICATING DIMENSIONS, ANGLES AND DIAMETER

● **HOW TO ORDER?**

i Drawings are not to scale



FILE NAME:SK-B3.SPEC

March 15, 2016

i Patent pending

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STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



RECESSED LED RINGS

FX-16(A-C)

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Sketch

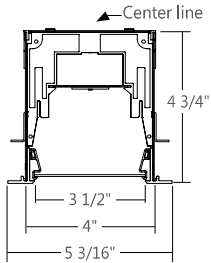
● PRODUCT DESCRIPTION

Sketch allows freedom to create shapes of continuous light. Its modules offer a wide range of options making possible to build partial and complete circles with 3', 5', 8', 13', 8', and 23' nominal diameters. These can be combined with straight sections.

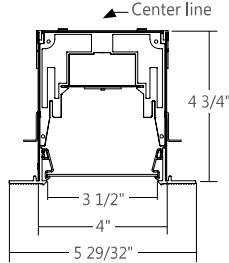
- ❶ Consult your Axis Representative to coordinate specification. A detailed drawing of the intended installation must be provided with each order.

● CEILING SYSTEM

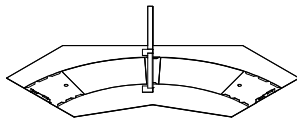
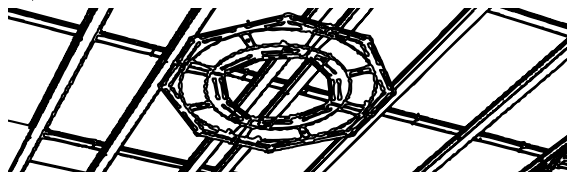
DRYWALL WITH FLANGE



DRYWALL SPACKLE FLANGE



EASY INSTALLATION WITH MOUNTING PLATES



❶ Patent pending

Mounting plates are installed behind the sheetrock to guide the cutting for installation of the luminaire housing using a rotary saw. The plates also allow for the layout of the luminaires to be confirmed before the final cuts are made.

- ❶ Installation sheets for all mounting options will be available shortly at: www.axislighting.com

● CONSTRUCTION

Housing Walls	Die formed cold rolled sheet steel (20 gauge)
Housing Top	Die formed cold rolled sheet steel (18 gauge)
Interior Brackets	Die formed cold rolled sheet steel (16 gauge)
Mounting Plates	Die formed cold rolled sheet steel (22 gauge)
Mounting brkts.	Die formed cold rolled sheet steel (16 gauge)
Joining brackets.	Die formed cold rolled sheet steel (16 gauge)
Incap & Cross Brkt.	Die cast aluminum
Flanges	Extruded aluminum

● WEIGHT

Approximately 5.4lbs/ft = 2.4kg/ft (linear)

● PERFORMANCE PER LINEAR FOOT

NOMINAL LUMEN OUTPUT	INPUT WATTS*	EFFICACY
400 lm/ft	4.9 W/ft	81 lm/W
700 lm/ft	9 W/ft	77 lm/W

* Based on a 2 foot luminaire using one driver
 Please consult factory for customized lumen output and wattage.

● LENS

Spotless Lens Highly transmissive laser cut polycarbonate 0.060" thick with easy snap installation.



❶ Patent pending

● ELECTRICAL

Lutron driver L3D - Hi-Lume A-Series EcoSystem 3-Wire Control (1%)
 LDE1 - EcoSystem H-Series (1%)
 LDE5 - EcoSystem 5-Series (5%)
 LTE - Hi-Lume® A-series 2Wires Forward Phase (1%)

Other drivers DALI - Digital Addressable Lighting Interface
 DMX - Digital Multiplex
 ELV - Electronic Low Voltage dimming
 LV - line voltage - Advance Mark 10
 redwood - Building Intelligence Platform
 Xitanium SR - For wireless sensor

Emergency Integral emergency battery pack or emergency circuit optional.

Input Voltage 120V, 277V, 347V, UNV.

- ❶ Incorporating these components may have limitations or effect the length of the luminaire, please contact factory for more details.

● FINISH

Highly reflective, white powder coat finish paint for high efficiency. Matte texture to diffuse glare and lamp image on the surface within the optical chamber exterior. Custom finishes are also available.

● APPROVALS

Certified to cULus standards (UL)
 Chicago Plenum Certified (CCEA) on request
 Meets NYC requirements
 Suitable for damp locations.
 IC Rated (Insulated ceiling)

● RECOGNITIONS

IES 2013- Recognized as a unique and significant advancement to the art and science of Lighting.
NGL 2013- Winner in the "Recognized" category.

● WARRANTY

Axis lighting will warrant defective LEDs, boards, and drivers for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specifications. If defective, Axis will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Axis.

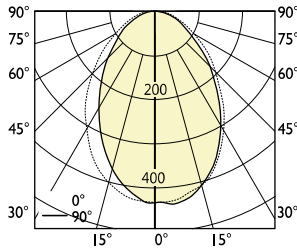
❶ Patent pending



Sketch

● **PHOTOMETRIC DATA**

PHOTOMETRIC CURVE



Luminaire Lumens: 2483 lm
Input Watts: 30.24 W
Efficacy: 71.1 lm/W

IES FILE:
 (D08 ARC Section)
 SK-B3-MF-ARC-ALL-11 9/16"-400-80-40-SO-AL-UNV.ies

TESTED ACCORDING TO IES LM-79-2008

CANDELA DISTRIBUTION

Vertical Angle	Horizontal Angles				
	0	22.5	45	67.5	90
0	432	432	432	432	432
5	437	436	434	432	430
15	407	408	409	408	401
25	341	344	350	353	345
35	256	261	271	279	272
45	178	181	192	202	197
55	115	118	125	134	131
65	70	71	76	81	80
75	34	35	38	42	41
85	5	5	7	9	10
90	0	0	0	0	0

ZONAL LUMENS

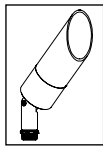
Zone	Lumens
0	
0-10	40
10-20	110
20-30	151
30-40	158
40-50	138
50-60	106
60-70	71
70-80	37
80-90	8
90	

LUMINANCE DATA (CD/M²)

Vertical Angle	Horizontal Angles		
	0	45	90
0	4933	5321	5459
55	3929	4270	4475
65	3246	3524	3709
75	2574	2877	3104
85	1124	1574	2248

i All IES files are available for download at: www.axislighting.com



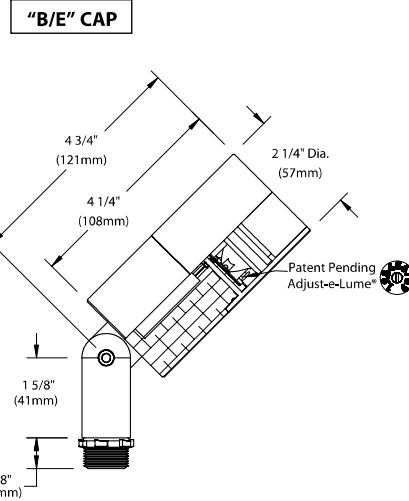
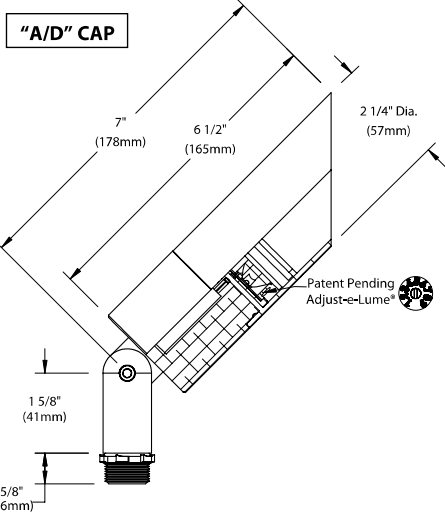


BKSSL
SOLID STATE LIGHTING

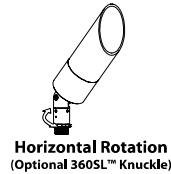
the power of dimming
with **adjust-e-Lume** TECHNOLOGY

DELTA STAR™

PROJECT:	
TYPE:	



360 SL™

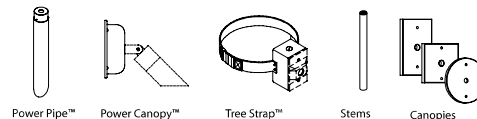


Horizontal Rotation
(Optional 360SL™ Knuckle)

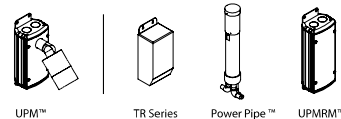
Accessories (Configure separately)

All dimensions indicated on this submittal are nominal. Contact Technical Sales if you require more stringent specifications.

Mounting:



Remote Transformers:



SPECIFICATIONS

GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials

Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 304).

Body

Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle

The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. 1/2" pipe thread for mounting.

Optional 360SL™ additionally provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

Cap

Fully machined. Accommodates [1] lens or louver media. Choose from 45° cutoff ('A' or 'D'), or 1" deep bezel with 90° cutoff ('B' or 'E') cap styles. 'A' and 'B' caps include weep-hole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

Lens

Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

BKSSL®

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <250mA (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

Line voltage dimmable via magnetic low voltage dimmer. For use with low voltage dimmer with dedicated neutral conductor. For purposes of dimming: Remote magnetic transformer with BKSSL® Power of 'e' technology loads should be loaded to 25% of the transformer VA (watts) rated value.

Remote Transformer

For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

Adjust-e-Lume® (Pat. Pending)

Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset output intensity.

Optics

Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Narrow Spot (NSP) = Red. Spot (SP) = Green. Medium Flood (MFL) = Yellow. Wide Flood (WFL) = Blue.

Wiring

Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware

Tamper-resistant, stainless steel hardware. LOCK™ aiming screw is additionally black oxide treated for additional corrosion resistance.

Finish

StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

Warranty

5 year limited warranty.

Certification and Listing

ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP66 Rated. Made in USA.



*Teflon is a registered trademark of DuPont Corporation.
*Energy Star is a registered trademark of the United States Environmental Protection Agency.

B-K LIGHTING	40429 Brickyard Drive • Madera, CA 93636 • USA 559.438.5800 • FAX 559.438.5900 www.bklighting.com • info@bklighting.com	RELEASED 03-01-16	DRAWING NUMBER SUB000930
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STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA







TREE MOUNTED MOONLIGHTING AIMED DOWN

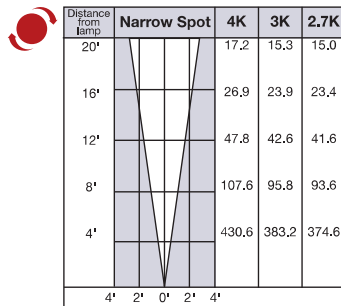
FX-17

270 CORAL CIRCLE | EL SEGUNDO, CALIFORNIA 90245 | TEL: 310.552.2191 | FAX: 310.552.2192

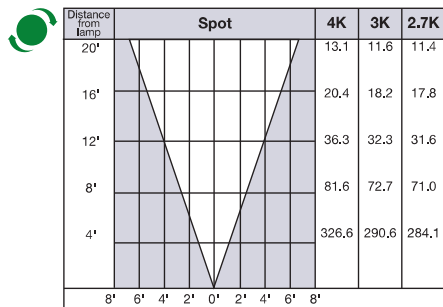
Select OptiKit™ for desired distribution

- RED**  **Narrow Spot (NSP)**
- GREEN**  **Spot (SP)**
- YELLOW**  **Medium Flood (MFL)**
- BLUE**  **Wide Flood (WFL)**

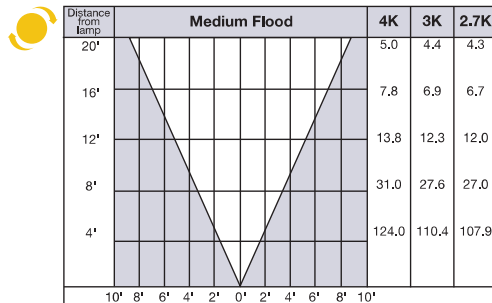
Set adjust-e-lume® Dial to desired output



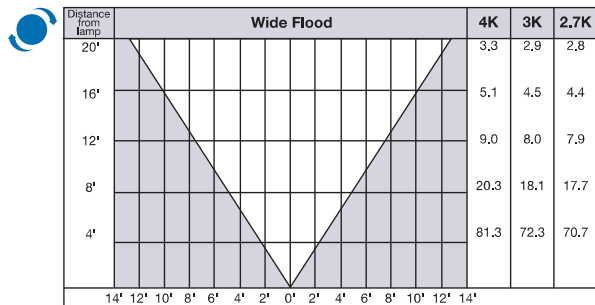
Note: If using No. 11 honeycomb baffle multiply footcandle values by .80



Note: If using No. 11 honeycomb baffle multiply footcandle values by .80



Note: If using No. 11 honeycomb baffle multiply footcandle values by .80



Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

B-K LIGHTING

40429 Brickyard Drive • Madera, California 93636 • 559.438.5800
www.bklighting.com

STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



TREE MOUNTED MOONLIGHTING AIMED DOWN

FX-17

RESET

Date: _____ Customer: _____
Project: _____
Type: _____ Qty: _____



Olivio Medio LED Sistema 2 Arm Mount



Order Code:	#1	OLML	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	#2	OLML	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	#3	OLML	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	#4	OLML	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fixture #	Series	Optics	Mounting	Light Engine	CCT	Finish	Voltage	Options										

Pole Order Code:	Series	Height	Finish	RN Rivnut Pairs	Options	*Rivnut Locations	*Refer to chart on page 5 for Rivnut locations
					Fixture #		

OLML	Series	OLML Olivio Medio LED																	
	Optics	S09 Spot, 9°	F40 Flood medium, 41°	F80 Flood wide, 78°	ASM Asymmetric (no SLH or SLV option)														
	Mounting	SBx Specify Arm Locations (x = number of arms)																	
	Light Engine	L46 46W nominal	L23 23W nominal																
	CCT	30 3000K	40 4000K																
	Finish	WH White	BK Black	BZ Bronze	SV Silver	SP Specify Premium Color													
	Voltage	120	208	240	277														
	Options	DS ¹ Dark Sky 0° Tilt Option	DM ² Dimming, 0-10V	SLH Spread Lens Horizontal (fixed)	SLV Spread Lens Vertical (fixed)	20kA 20kA Surge Suppression	PC Photocell (consult factory)	¹ IDA certified "Dark Sky Friendly" ² Only available with L46											

Product Modifications

Please list modification requirements for review by factory:

Approvals

Date: _____



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In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.us are the most recent versions and supercede all other printed or electronic versions.

Page 1 of 12
(Rev. 09/2015)
OLML-SB_ss_v1.5

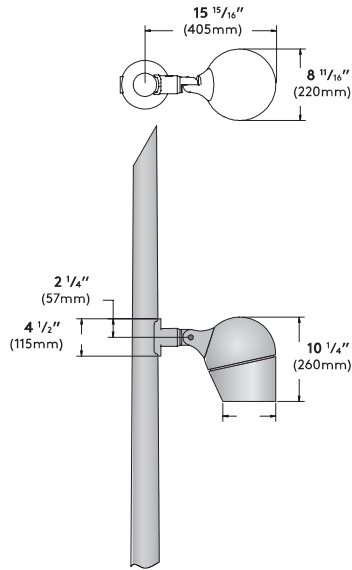
STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



SECURITY FLOODLIGHTS ON 12' POLE

FX-18

OLML-SB1



Specifications

1. Luminaire Housing - Two piece high pressure die cast housing, made of low copper aluminum alloy. Single recessed captive screw allows easy access to light engine & gear tray components.

2. Gasketing - (not shown) UV and ozone-resistant, silicone gasket between fixture housing and lens base provide IP67 level ingress protection. IP rated micro-membrane ensures pressure compensation.

3. Lens - (not shown) Tempered clear glass lens.

4. LED Light Engine - (not shown) made from high flux COB and vacuum metalized aluminum reflectors. Selux is using brand name LED manufacturers. Available in 3000K and 4000K, CRI minimum 80. Reflectors made from high purity aluminum to ensure high efficiencies throughout lifetime. Complete light engine can be removed easily for future upgrade. LED light engine provides a reported lumen maintenance of 84.3% at 60,000 hours. L70 calculated greater than 60,000 hours.

5. LED Driver - Selux uses brand name high efficiency LED drivers. LEDs are driven by RoHS compliant high-efficiency driver. Excellent for cold temperature starting and instant on. Min. operating temperature -40°C/ -40°F.

6. Surge Protector - (not shown) Designed to protect luminaire from electrical surge up to 10kA. Surge protection up to 20kA optional.

7. Arm - Cast aluminum mounting arms for flexible pole mounting. Fixture head joint provides tilt-swivel range from 0° to 175°, and 360° rotation. Locks down with set screws.

8. Rivnuts - (not shown) (2) Two rivnuts required per Fixture Arm and installed by manufacturer.

8. Power Cord - (not shown) Pre-installed at factory and fed hidden through the luminaire hinge and hinge arm. Power cords are specified to fit the length of the pole specified with the luminaire.

Exterior Luminaire Finish -

Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultraviolet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI. Standard exterior colors are White (WH), Black (BK), Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

ASTM and PCI. Standard exterior colors are White (WH), Black (BK), Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

5 Year Limited LED Luminaire Warranty -

Selux offers a 5 Year Limited Warranty to the original purchaser that the OLIVIO LED luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the LED driver and LED Light engine when installed and operated according to Selux instructions. For details, see "Selux Terms and Condition of Sale."

Listings and Ratings: Luminaire and LED tested to IP67 and IESNA LM-79-08 standards. LED tested to LM-80 standards. Luminaire and LED tested at 25°C ambient temperature.

OLIVIO LED suitable for ambient temperatures of 40°C (104°F). Minimum operating temperature of luminaire at -40°C (-40°F).

NRTL Listed for wet location (i.e. UL, CSA)

Visit selux.us for our LED End of Life recycling policy.

Lumen Output for OLML

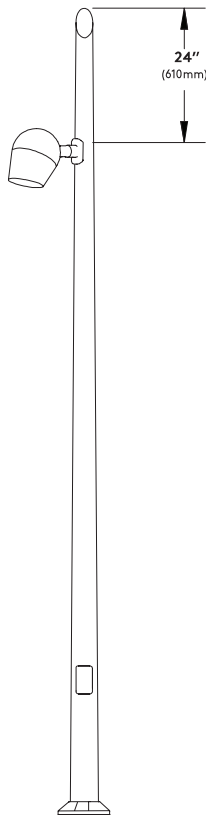
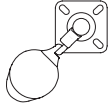
Olivio Medio LED	S09	F40	F80	ASM
3000K CRI>80	3208 lm CBCP 46602.8 cd	3263 lm CBCP 5273.9 cd	3010 lm CBCP 2052 cd	2068 lm CBCP 1678 cd
4000K CRI>80	3252 lm CBCP 47253cd	3308 lm CBCP 5347.6cd	3052 lm CBCP 2080.7cd	2820 lm CBCP 1970cd



Mounting

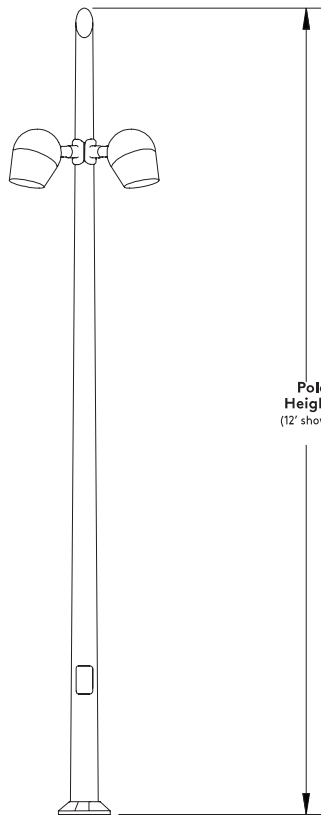
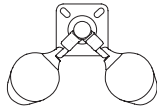
Mounting Details

Single
(Arm Location: 0D)



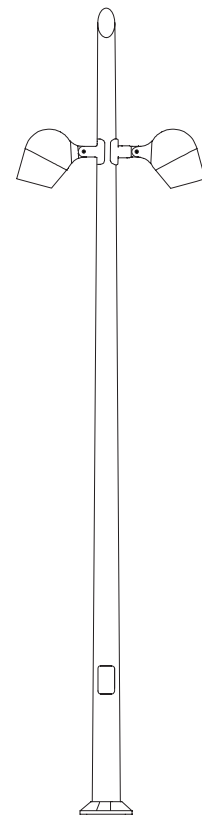
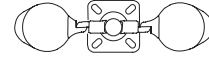
EPA = 0.5 ft² (0.046 m²)
Weight = 15 lbs. (7 kg)
Rivnuts = 1 pair (RN1)

Double at 90°
(Arm Locations: 0D-0V)



EPA = 0.9 ft² (0.083 m²)
Weight = 31 lbs. (14 kg)
Rivnuts = 2 pair (RN2)

Double at 180°
(Arm Locations: 0G-0S)

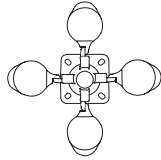


EPA = 0.9 ft² (0.083 m²)
Weight = 31 lbs. (14 kg)
Rivnuts = 2 pair (RN2)

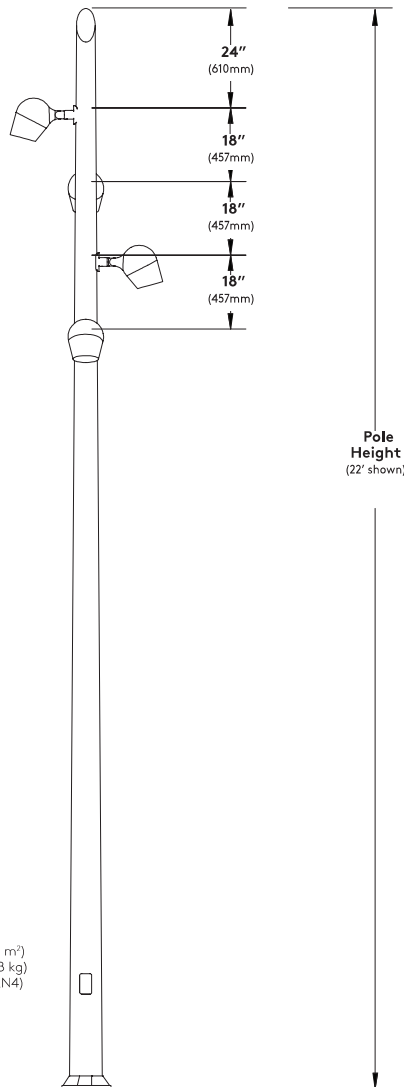
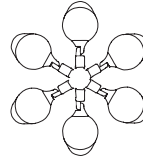
Mounting

Mounting Details

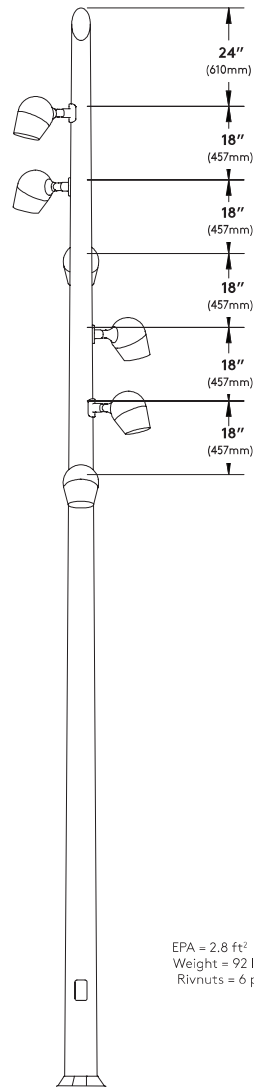
Quadruple Pole Arms stepped at 90°
(Arm Location: 0G-1M-2S-3A)



Sextuple Pole Arms stepped at 60°
(Arm Locations: 0E-1I-2M-3Q-4U-5A)



EPA = 1.9 ft² (0.177 m²)
Weight = 62 lbs. (28 kg)
Rivnuts = 4 pair (RN4)

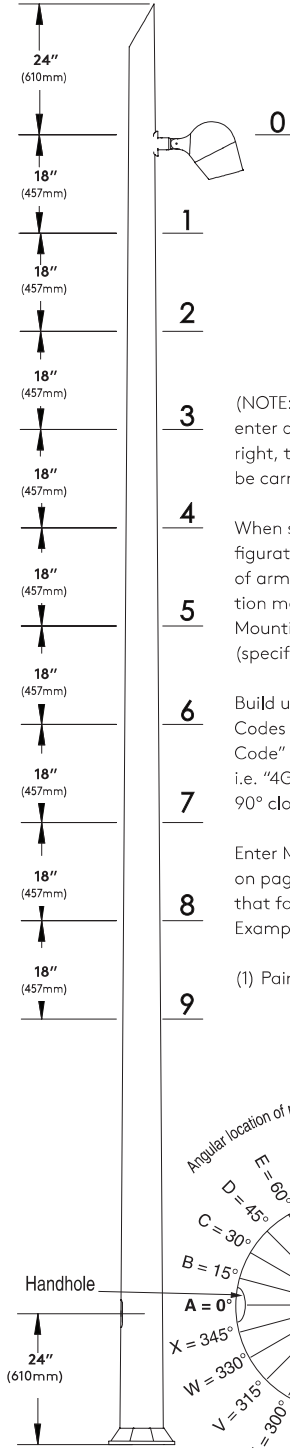


EPA = 2.8 ft² (0.260 m²)
Weight = 92 lbs. (42 kg)
Rivnuts = 6 pair (RN6)



Specify Mounting Configurations

(Luminaire shown for illustrative purposes only - not to scale)



HEIGHT CODE
DISTANCE FROM TOP OF POLE
CLOCKWISE FROM HANDHOLE
ANGULAR LOCATION CODE

Use checkboxes provided in chart below. Columns #0 through #9 indicate heights starting with 2 feet (610mm) below top of pole and proceeding downwards in increments of 18 inches (457mm). Rows A through X indicate angular placement around pole starting with 0° at handhole and proceeding clockwise.

NOTE: Arms mounted at same height level must be spaced apart at 90° minimum. Arms mounted at adjacent height levels (18° apart) must be spaced apart at 45° minimum.

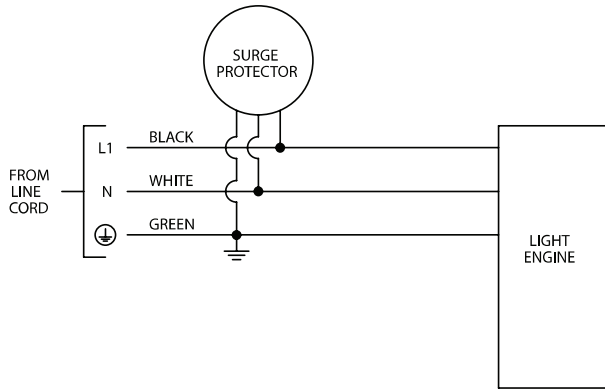
- 3 (NOTE: If using Adobe Acrobat to enter data (checks) in chart on right, the following instructions will be carried out automatically)
- 4 When specifying non-standard configurations, enter "SB+(total number of arms specified)" on configuration matrix on page 1 in the fixture Mounting field. Example: SB4 (specifying 4 mounting arms)
- 6 Build up the Mounting Arm Location Codes from chart on right ("Height Code" + "Angular Location Code") i.e. "4G" = 8 feet from top of pole, 90° clockwise from handhole.
- 8 Enter Mounting Arm Location Codes on page 1 in the blanks provided that follow the Pole Option blanks. Example: 3G-3P-4A-5S
- 9 (1) Pair of Rivnuts required per arm.

	0	1	2	3	4	5	6	7	8	9
0	2'	3.5'	5'	6.5'	8'	9.5'	11'	12.5'	14'	15.5'
A	0°									
B	15°									
C	30°									
D	45°									
E	60°									
F	75°									
G	90°									
H	105°									
I	120°									
J	135°									
K	150°									
L	165°									
M	180°									
N	195°									
O	210°									
P	225°									
Q	240°									
R	255°									
S	270°									
T	285°									
U	300°									
V	315°									
W	330°									
X	345°									

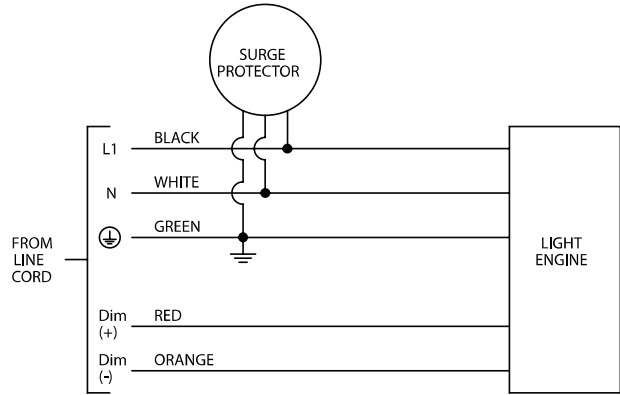


Wiring

Standard Single Wiring



0-10V Dimming Option (DM) Wiring
L46, 120-277V.

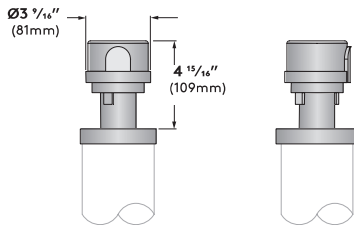


Options

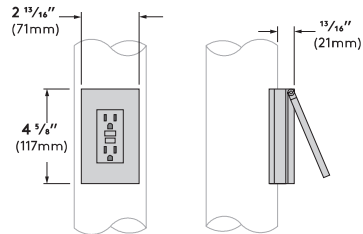
Dark Sky 0° Tilt Option (DS) - Luminaire head tilt angle preset and fixed at factory to comply with ICA Dark Sky and BUG U0 ratings.

20kA Surge Protection (20kA) - Designed to protect luminaire from electrical surge up to 20kA.

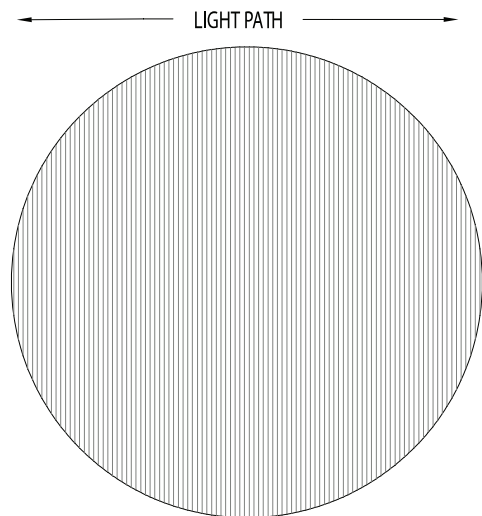
Photo Cell (PC) - Consult factory. Twist lock photocell mounted to aluminum cap which attaches to pole top or can be remotely located. Can be oriented for optimum performance. Only for flat top poles. Refer to fixture spec sheet to determine if this option is applicable.



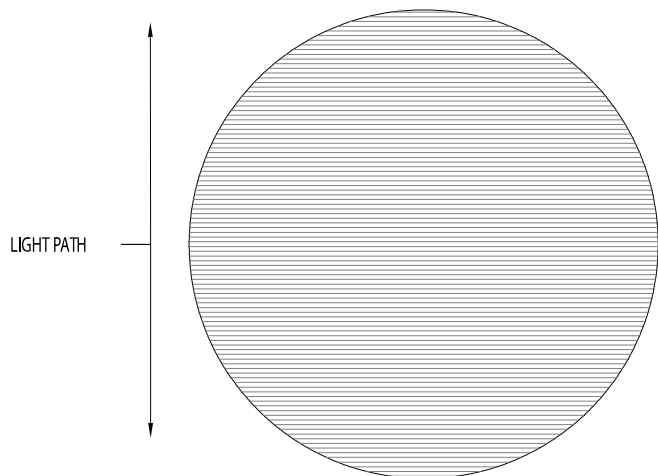
GFCI Receptacle (REC) - 120V GFCI duplex receptacle with cast base bolted to pole and gasketed, provided with weather-proof, self-closing cover; located 36" (915mm) from base of pole, inline with handhole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel. For in-use cover, please consult factory.



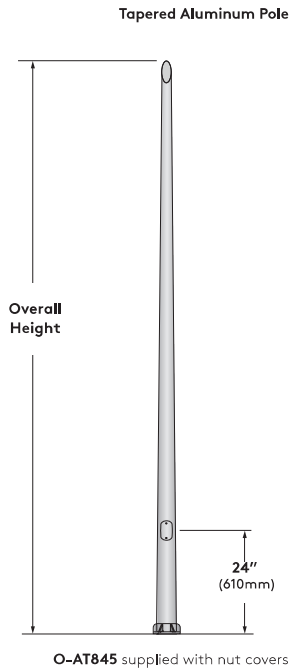
Horizontal spread lens (SLH) - Spread lens for horizontal light distribution. Replaces clear lens and intended to be used with reflectors for S09, F40 or F80 distribution. Preset and fixed at factory.



Vertical spread lens (SLV) - Spread lens for vertical light distribution. Replaces clear lens and intended to be used with reflectors for S09, F40 or F80 distribution. Preset and fixed at factory.

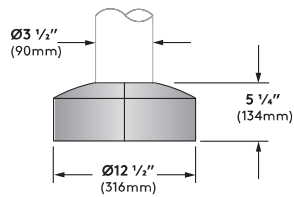


Pole Information

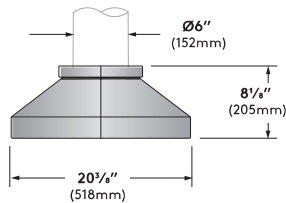


Base Cover Information

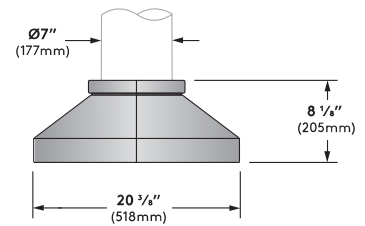
Standard Base Cover (BC5)
 Supplied with O-A35-197
 Two-piece cast aluminum



BC9 Available for:
 O-AT64-156
 O-ST5936-11



BC10 - Available for:
 O-AT74-156



Pole Data Chart

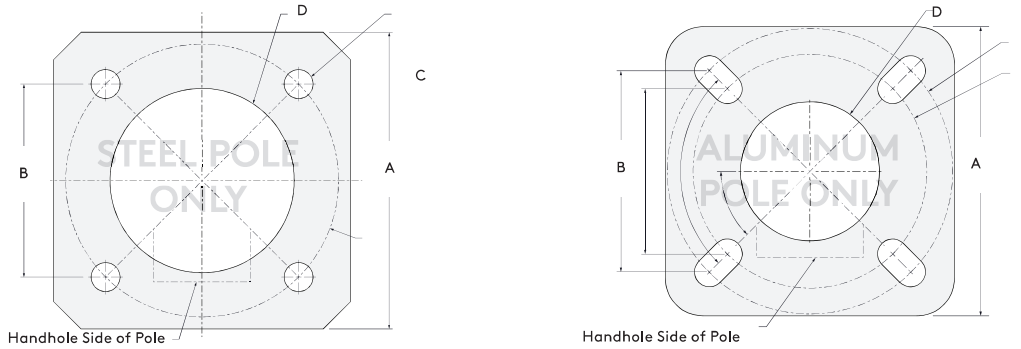
Pole Series	Wall	EPA Information				Height	Finish	Rivnut Pairs	Options
		80mph	90mph	100mph	110mph				
O-A35-197 3.5" Round Straight Alum Pole	0,197	7.3	5.4	4	3.1	12 12 ft.	WH White	RN1 1 Pair	BC1 Decorative Cast Aluminum Base Cover (see base cover details for pole compatibility)
O-AT535-156 5" to 3.5" Round Tapered Alum Pole	0,156	14.4	10.9	8.6	6.9		BK Black	RN2 2 Pair	
O-A35-197 3.5" Round Straight Alum Pole	0,197	5.8	4.2	3.0	2.2	14 14 ft.	BZ Bronze	RN3 3 Pair	BC3 Die-cast Two-piece Alum. Base cover (see base cover details for pole compatibility)
O-AT535-156 5" to 3.5" Round Tapered Alum Pole	0,156	9.4	7.1	5.5	4.4		SV Silver	RN4 4 Pair	
O-AT535-156 5" to 3.5" Round Tapered Alum Pole	0,156	7.7	5.6	4.2	3.3	16 16 ft.	SP Specify Premium Color	RN5 5 Pair	BC5 Two-piece Cast Alum. Base cover (see base cover details for pole compatibility)
O-AT64-156 6"-4" Round Tapered Alum Pole	0,156	14.1	10.8	8.6	7.0			RN6 6 Pair	
O-ST5936-11 5.9"-3,6" Tapered Steel Pole	11 ga	19.3	15.1	12.2	10.0	18 18 ft.		RN7 7 Pair	BC9 Die-cast Base cover (see base cover details for pole compatibility)
O-AT535-188 5" to 3.5" Round Tapered Alum Pole	0,188	7.8	5.6	4.2	3.2		RN8 8 Pair		
O-AT64-156 6"-4" Round Tapered Alum Pole	0,156	11.5	8.7	6.9	5.5	20 20 ft.			BC10 Die-cast Base cover (see base cover details for pole compatibility)
O-AT74-156 7"-4" Round Tapered Alum Pole	0,156	17.2	13.3	10.6	8.6				
O-AT535-188 5" to 3.5" Round Tapered Alum Pole	0,188	6.4	4.5	3.2	2.4				REC GFCI Receptacle (120V)
O-AT64-156 6"-4" Round Tapered Alum Pole	0,156	9.6	7.1	5.6	4.4				
O-AT74-156 7"-4" Round Tapered Alum Pole	0,156	15.0	11.4	9.0	7.3				PC Photocell (please consult factory; must be flat-top pole; also specify with luminaire)

EPA values are calculated according to AASHTO 1994 with a 1.3 gust factor. Poles are calculated for an even distributed weight load of 200 lbs weight maximum. If the majority of the load is unevenly distributed, please consult factory for project specific EPA calculations

(1) Pair of Rivnuts is required for every mounting arm in pole mount applications. Rivnut codes are denoted in pairs (1 pair Rivnuts = RN1, 2 pair Rivnuts = RN2, 3 pair Rivnuts = RN3, etc) and must be specified for all pole mount configurations.

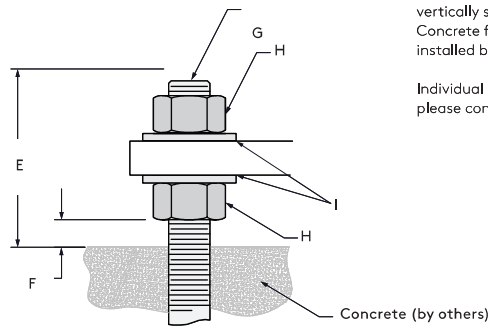


Mounting Plate Detail



Mounting Plate Details	A Base Plate SQ	B Base Plate SQ	C Base Circle Ø	D Conduit Opening Ø
O-A35-197 3.5" Round Straight Alum Pole	8" (203mm)	5 1/2" (139mm)	7 3/4" (197mm)	3" (76mm)
O-AT535-156 5" to 3.5" Round Tapered Alum Pole	9 5/8" (244mm)	6 1/8" (155mm)	8 5/8" (219mm)	4 5/8" (117mm)
O-AT535-188 5" to 3.5" Round Tapered Alum Pole	9 5/8" (244mm)	6 1/8" (155mm)	8 5/8" (219mm)	4 5/8" (117mm)
O-AT64-156 6"-4" Round Tapered Alum Pole	10 5/16" (262mm)	6 11/16" (171mm)	9 1/2" (241mm)	5 1/2" (140mm)
O-AT74-156 7"-4" Round Tapered Alum Pole	11 1/4" (286mm)	7 1/2" (190mm)	10 9/16" (268mm)	6" (152mm)
O-ST5936-11 5.9"-3.6" Tapered Steel Pole	10" (254mm)	6 3/8" (162mm)	9" (229mm)	5 5/8" (143mm)

Anchor Bolt Detail



Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimension shown. Concrete footing and feed conduit to be designed and installed by others.

Individual 1:1 scale drawings for installation available, please consult factory.

All Hardware is Galvanized

Anchor Bolt Details	E Bolt Projection	F For Leveling	G Anchor Bolt	H Heavy Hex Nut	J Flat Washer
O-A35-197 3.5" Round Straight Alum Pole	3 1/4" (82mm)	1/2" (13mm)	3/4"-10 UNC x 17"	3/4"-10 UNC	3/4" ID
O-AT535-156 5" to 3.5" Round Tapered Alum Pole	3 1/4" (82mm)	1/2" (13mm)	3/4"-10 UNC x 17"	3/4"-10 UNC	3/4" ID
O-AT535-188 5" to 3.5" Round Tapered Alum Pole	3 1/4" (82mm)	1/2" (13mm)	3/4"-10 UNC x 17"	3/4"-10 UNC	3/4" ID
O-ST5936-11 5.9"-3.6" Tapered Steel Pole	4 1/8" (105mm)	1/2" (13mm)	1"-8 UNC x 36"	1"-8 UNC	1" ID
O-AT64-156 6"-4" Round Tapered Alum Pole	3 1/2" (89mm)	1/2" (13mm)	3/4"-10 UNC x 17"	3/4"-10 UNC	3/4" ID
O-AT74-156 7"-4" Round Tapered Alum Pole	4 1/8" (105mm)	1/2" (13mm)	1"-8 UNC x 36"	1"-8 UNC	1" ID

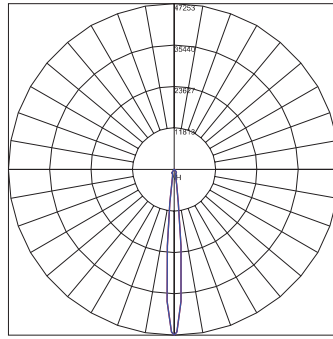


Photometry

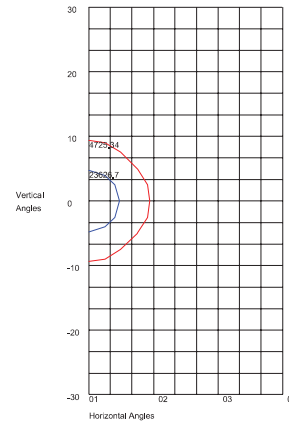
S09 /44W LED / 4000K CCT

Catalog #: OLM-L509-L46-40-120
 Delivered Lumens: 3252
 Input Watts: 44W
 CRI: >83.5
 Maximum candela of 47253.4
 Maximum candela Angle 0H x 0V
 NEMA Classification: 1H x 1V
 Power Factor: 0.989
 Total Harmonic Distortion: 9.23%

[Link to photometry \(PDF\)](#)
[Link to photometry \(IES\)](#)



Maximum Candela = 47253.4 Located At Horizontal Angle = 0, Vertical Angle = 0
 H - Horizontal Axial Candela
 V - Vertical Axial Candela

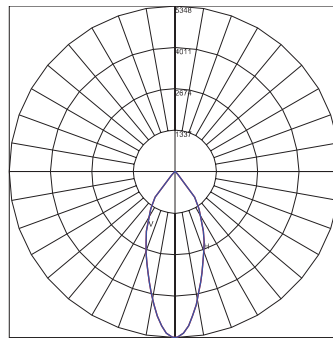


Maximum Candela = 47253.4 Located At Horizontal Angle = 0, Vertical Angle = 0
 50% Maximum Candela = 23626.7
 10% Maximum Candela = 4725.34

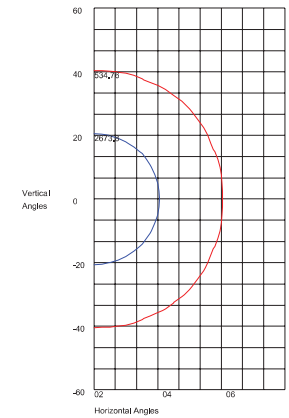
F40 / 44W LED / 4000K CCT

Catalog #: OLM-LF40-L46-40-120
 Delivered Lumens: 3308
 Input Watts: 44W
 CRI: >83.5
 Maximum candela of 5347.6
 Maximum candela Angle 0H x 0H
 NEMA Classification: 5H x 5V
 Power Factor: 0.989
 Total Harmonic Distortion: 9.23%

[Link to photometry \(PDF\)](#)
[Link to photometry \(IES\)](#)



Maximum Candela = 5347.6 Located At Horizontal Angle = 0, Vertical Angle = 0
 H - Horizontal Axial Candela
 V - Vertical Axial Candela

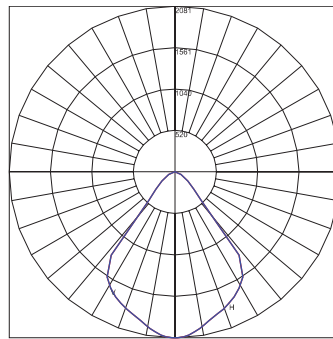


Maximum Candela = 5347.6 Located At Horizontal Angle = 0, Vertical Angle = 0
 50% Maximum Candela = 2673.8
 10% Maximum Candela = 534.76

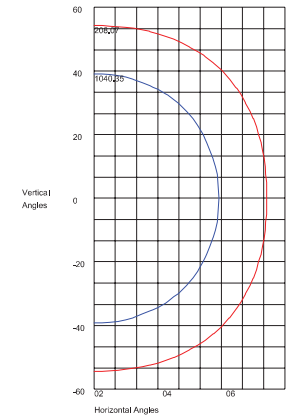
F80 / 44W LED / 4000K CCT

Catalog #: OLM-LF80-L46-40-120
 Delivered Lumens: 3052
 Input Watts: 44W
 CRI: >83.5
 Maximum candela of 2080.7
 Maximum candela Angle 0H x 0H
 NEMA Classification: 6H x 6V
 Power Factor: 0.989
 Total Harmonic Distortion: 9.23%

[Link to photometry \(PDF\)](#)
[Link to photometry \(IES\)](#)



Maximum Candela = 2080.7 Located At Horizontal Angle = 0, Vertical Angle = 0
 H - Horizontal Axial Candela
 V - Vertical Axial Candela



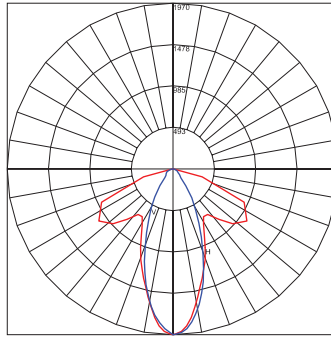
Maximum Candela = 2080.7 Located At Horizontal Angle = 0, Vertical Angle = 0
 50% Maximum Candela = 1040.35
 10% Maximum Candela = 208.07



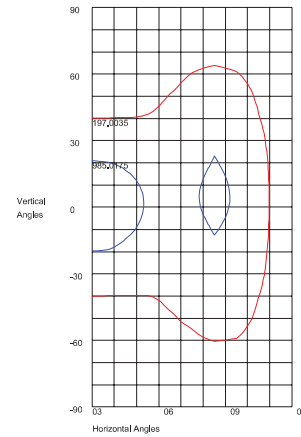
Photometry

ASM / 44W LED / 4000K CCT
 Catalog #: OLM-L46-40-120
 Delivered Lumens: 2428
 Input Watts: 44W
 CRI: >83.5
 Maximum candela of 1970.035
 Maximum candela Angle 0H x 0V
 NEMA Classification: 7H x 5V
 Power Factor: 0.989
 Total Harmonic Distortion: 9.23%

[Link to photometry \(PDF\)](#)
[Link to photometry \(IES\)](#)



Maximum Candela = 1970.035 Located At Horizontal Angle = 0, Vertical Angle = 0
 H = Horizontal Axial Candela
 V = Vertical Axial Candela



Maximum Candela = 1970.035 Located At Horizontal Angle = 0, Vertical Angle = 0
 50% Maximum Candela = 985.0175
 10% Maximum Candela = 197.0035

CCT Multiplier	
4000K	1.000
3000K	0.986

Conversion Chart	
Values based on 16' (4.9 m) mounting height	
Mounting Height	Multiply
10' (3.0 m)	1.27
12' (3.7 m)	1.16
14' (4.3 m)	1.07
16' (4.9 m)	1.00
18' (5.5 m)	0.84

CCT multipliers apply to the photometry, and IES files.

LED lighting facts
 A Program of the U.S. DOE

Light Output (Lumens) **3160**
 Watts **43.96**
 Lumens per Watt (Efficacy) **71.9**

Color Accuracy
 Color Rendering Index (CRI) **81**

Light Color
 Correlated Color Temperature (CCT) **3943 (Bright White)**

LED Lumen Maintenance Projection
 at 36,000 Hours at 40°C Ambient* **89.85%**

Warranty** **Yes**

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008. Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

* Based on TM-21 projections for the light source.
 ** See www.lightingfacts.com/products for details.

Registration Number: NVQ9-GJF84Y (5/26/2015)
 Model Number: OLM-L46-40-120
 Type: Luminaire - Directional

STRAND AND PIER HOTEL | HERMOSA BEACH, CALIFORNIA



SECURITY FLOODLIGHTS ON 12' POLE

FX-18