

General Illumination Round Downlight

4"

OVERVIEW Feature Set

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 MacAdam Ellipse; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- ENERGY STAR® certified product
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. [UGR FAQ](#)

Distribution



Superior Performance*

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500
Delivered Lumens	271	573	808	1001	1527	1994	2580	3110	3612	4120	4584
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7	31.2	38.4	35.4	40.1
Lumens per Watt	87.4	79.6	102.3	113.8	111.5	102.3	100.4	99.7	94.1	116	114

*Based on 3500K AR LSS MWD 80CRI

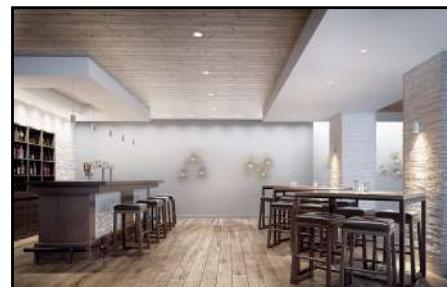
Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light



Items marked by a **shaded background** qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.

*See ordering tree for details

Core								
Healthcare								
Special Applications								



Design Select options indicated by this color background.

Luminaire Type:

Catalog Number:

EXAMPLE: EVO4 35/25 AR MWD LSS 120 EZ1

Series	Color Temperature	Nominal Lumen Values	Reflector & Flange Color	Trim Style	Finish	Distribution	Voltage
EVO4	27/ 2700 K	02 250 lumens	AR Clear	(blank) Self-flanged	LSS Semi-specular	MD Medium (0.9 s/mh)	MVOLT 120
	30/ 3000 K	05 500 lumens	PR Pewter	FL Flangeless	LD Matte-diffuse	MWD Medium wide (1.0 s/mh)	277
	35/ 3500 K	07 750 lumens	WTR Wheat		LS Specular	WD Wide (1.2 s/mh)	347 ^{3,4}
	40/ 4000 K	10 1000 lumens	GR Gold				
	50/ 5000 K	15 1500 lumens	WR ¹ White				
		20 2000 lumens	BR ¹ Black				
		25 2500 lumens	WRAMF ¹ White				
		30 3000 lumens	Anti-microbial				
		35 3500 lumens	TRALTBD ^{1,2} RAL paint for pricing only				
		40 4000 lumens	TCPC ¹ Custom paint color				
		45 4500 lumens					

Driver ⁵	Control Interface	Emergency Options	Options
GZ10 0-10V driver dims to 10%	NLT ⁷ nLight® dimming pack controls	EL ¹¹ Emergency battery pack, 10W, with integral test switch	SF Single Fuse. Specify 120V or 277V
GZ1 0-10V driver dims to 1%	NLTER ^{3,7,8} nLight® dimming pack controls emergency circuit	ELR ¹¹ Emergency battery pack, 10W, with remote test switch	TRWI ¹² White painted flange
EZ1 eldoLED 0-10V ECODrive. Linear dimming to 1% min.	NLTAIR2 ^{9,10} nLight® Air enabled	ELSD ¹¹ Emergency battery pack, 10W, with self-diagnostics, integral test switch	TRBL ¹³ Black painted flange
EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	NLTAIRER2 ^{3,8,9} nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit	ELRSD ¹¹ Emergency battery pack, 10W, with self-diagnostics, remote test switch	FRLTBD ² Flange ring only RAL color for pricing only
EDAB eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	NLTairem2 ^{3,9} nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit with battery pack options.	E10WCP ¹¹ Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch	FCPC Flange custom paint color
EDXB eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Minimum 1000 lumens. Includes termination resistor. Refer to DMXR Manual .		E10WCPR ¹¹ Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch	N80 ¹⁴ nLight® Lumen Compensation
ECOD ⁶ Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Min: 250LLM; Max: 4000LLM.		BGTD Bodine generator transfer device. Specify 120V or 277V.	GTD generator transfer device. Specify 120V or 277V
			90CRI High CRI (90+)
			CP ¹⁵ Chicago Plenum. Specify 120V or 277V for 5000lm and above.
			RRL RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on www.acuitybrands.com for RELOC® product specifications. Above ceiling access required.

ACCESSORIES — order as separate catalog numbers (shipped separately)

SCA4	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to TECH-190 .
CTAEVO4	4" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5").
CTA4-8 YK	4"-8" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). For use with CWW/DWW trims, EDXB, CP or nTune options.
ISD BC	0-10V wallbox dimmer. Refer to ISD-BC .

ORDERING NOTES

1. Not available with finishes.
2. Replace with applicable RAL number and finish when ready to order. See [RAL BROCHURE](#) for available color options. Not available with emergency battery pack options.
3. Not available with emergency battery pack options.
4. Supplied with factory installed step down transformer.
5. Refer to [TECH-240](#) for compatible dimmers.
6. Not available with nLight®.
7. Must specify voltage.
8. ER for use as UL924 Emergency Operation via power sense lead. Will require an emergency hot feed and normal hot feed. EM for use as UL924 Emergency Operation via power interrupt detection.
9. Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.
10. When combined with the EZ1, EZ10, or EZB option, normal luminaires (non-emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.
11. 11" of plenum depth or top access required for battery pack maintenance.
12. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with WR (white reflector) or FL (flangeless) option.
13. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with BR (black reflector) or FL (flangeless) option.
14. Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
15. Not available with ELR, HAO, or EXAB, or any nLight® AIR dimming options.

Optical Assembly

Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top-down flash characteristic for superior glare control. Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

Electrical

The luminaire shall operate from a 50 or 60 Hz ± 3 Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output.

The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.

Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.

Input wires shall be 18AWG, 300V minimum, solid copper.

Controls

Luminaire shall be equipped with interface for nLight wired or wireless network with integral power supply as per specification.

Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.

Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

Construction

Fully serviceable and upgradeable lensed LED light engine, both the driver and light engine are suitable for field maintenance and are serviceable from above or below the ceiling.

Luminaire housing shall be constructed of 20-gauge galvanized steel and have telescopic mounting bars with maximum 26" and minimum 15" extension and 4" vertical adjustment.

Luminaires shall be suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 2").

Tool-less adjustments shall be possible after installation.

The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration.

25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise).

Listings

Fixtures are CSA certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling. Luminaire configurations are Energy Star certified through testing in EPA-recognized laboratories, with the results reviewed by an independent, accredited certification organization. Visit www.energystar.gov for specific configurations listed.

BUY AMERICAN ACT

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

Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 60,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

Warranty

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

Note:

Actual performance may differ as a result of end user environment and application.

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

 **A+ Capable Luminaire**

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control capability with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

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

EVO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EXA1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic	Linear
EDXB	<1%	Logarithmic	Linear

Nomenclature	Description	Control Provided (note: 347V/UVOLT versions provided with 347 option selected)				
		NLT	NLTER	NLTAIR2	NLTAIR2ER	NLTairem2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V EC0drive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V EC0drive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2

How to Estimate Delivered Lumens in Emergency Mode**Delivered Lumens = 1.25 x P x LPW**

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

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

Flangeless Installation

Gotham's flangeless option utilizes a micro-thin polymer mud ring that minimizes the amount of drywall compound required to finish the ceiling. The end result is a virtually undetectable flangeless downlight installation.

The polymer mud ring is installed independent of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.



Partially finished mud ring, showing cross-section detail.



An EVO downlight requires only approximately 3" of plaster to finish.



EVO with flangeless trim

4"

General Illumination Round Downlight

DIMENSIONAL DATA

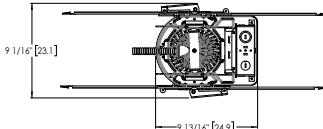
Aperture: 4-5/16" (11)

Ceiling Opening: 5-1/8" (13) self-flanged

Overlap trim: 5-7/16" (13.8)

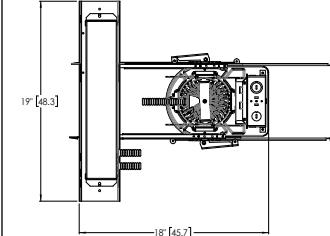
5-1/4" (13.3) flangeless

Standard



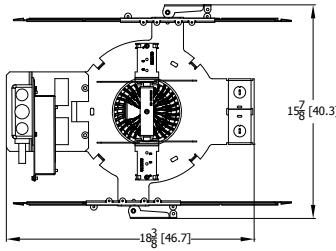
Aperture: Ø 4-5/16" [11]
Ceiling Cutout: Ø 5-1/8" [13] Self-flanged
Overlap Trim: Ø 5-7/16" [13.8]
Ceiling Cutout: Ø 5-1/4" [13.3] Flangeless

Battery Pack

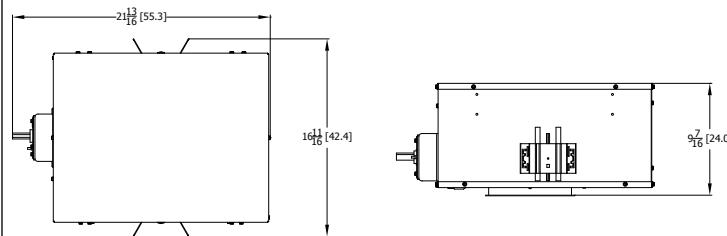


Aperture: Ø 4-5/16" [11]
Ceiling Cutout: Ø 5-1/8" [13] Self-flanged
Overlap Trim: Ø 5-7/16" [13.8]
Ceiling Cutout: Ø 5-1/4" [13.3] Flangeless

CP Standard



CP Enclosed For Use With Battery Pack & nLight

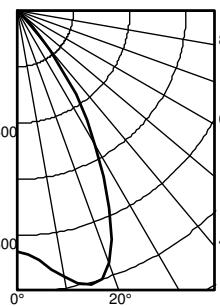


4"

General Illumination Round Downlight

Photometry

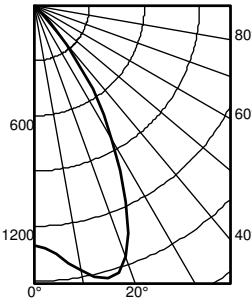
EV04 35/10 MWD LS INPUT WATTS: 8.8W, DELIVERED LUMENS: 1001.7LM, LPW = 113.8, 1.08 S/MH, TEST NO. LTL27786P131



Ave	Lumens	Zone	Lumens	% Lamp	pf		20%		50%		Initial FC	Mounting	Center	Height	Beam	Diameter	FC	Diameter	FC	
					pc	pw	80%	50%	30%	10%										
0	856	0° - 30°	717.4	71.6	0	119	119	119	116	116	116	111	111	111	111	111	111	111	111	
5	888	0° - 40°	942.0	94.0	1	111	108	106	109	106	104	105	103	101	105	103	101	105	103	101
15	1010	0° - 60°	1000.8	99.9	2	103	99	96	101	98	95	98	95	93	98	95	93	98	95	93
25	775	0° - 90°	1001.7	100.0	3	96	91	87	95	90	87	92	88	85	95	90	87	92	88	85
35	363	90° - 180°	0.0	0.0	4	90	84	80	89	84	80	87	82	79	89	84	80	87	82	79
45	61	0° - 180°	1001.7	*100.0	5	84	78	74	83	78	74	81	77	73	84	78	74	81	77	73
55	2	2			6	79	73	69	78	72	68	76	72	68	79	73	69	78	72	68
65	1	1			7	74	68	64	73	68	64	72	67	63	74	68	64	73	68	64
75	0	0			8	70	64	59	69	63	59	68	63	59	70	64	59	69	63	59
85	0	0			9	66	60	56	65	59	56	64	59	55	66	60	56	65	59	55
90	0				10	62	56	52	61	56	52	61	56	52	62	56	52	61	56	52

50% beam - 56.7° 10% beam - 79.7°

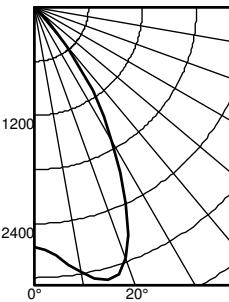
EV04 35/15 MWD LSS INPUT WATTS: 13.7W, DELIVERED LUMENS: 1527.3LM, LPW = 111.4, 1.08 S/MH, TEST NO. LTL27786P137



Ave	Lumens	Zone	Lumens	% Lamp	pf		20%		50%		Initial FC	Mounting	Center	Height	Beam	Diameter	FC	Diameter	FC	
					pc	pw	80%	50%	30%	10%										
0	1305	0° - 30°	1093.9	71.6	0	119	119	119	116	116	116	111	111	111	111	111	111	111	111	
5	1354	0° - 40°	1436.2	94.0	1	111	108	106	109	106	104	105	103	101	105	103	101	105	103	101
15	1539	0° - 60°	1525.8	99.9	2	103	99	96	101	98	95	98	95	93	98	95	93	98	95	93
25	1181	0° - 90°	1527.3	100.0	3	96	91	87	95	90	87	92	88	85	96	91	87	92	88	85
35	553	90° - 180°	0.0	0.0	4	90	84	80	89	84	80	87	82	79	90	84	80	87	82	79
45	93	0° - 180°	1527.3	*100.0	5	84	78	74	83	78	74	81	77	73	84	78	74	81	77	73
55	2	2			6	79	73	69	78	72	68	76	72	68	79	73	69	78	72	68
65	1	1			7	74	68	64	73	68	64	72	67	63	74	68	64	73	68	64
75	0	0			8	70	64	59	69	63	59	68	63	59	70	64	59	69	63	59
85	0	0			9	66	60	56	65	59	56	64	59	55	66	60	56	65	59	55
90	0				10	62	56	52	61	56	52	61	56	52	62	56	52	61	56	52

50% beam - 56.7° 10% beam - 79.7°

EV04 35/30 MWD LSS INPUT WATTS: 31.2W, DELIVERED LUMENS: 3110.6LM, LPW = 99.6, 1.08 S/MH, TEST NO. LTL27786P155



Ave	Lumens	Zone	Lumens	% Lamp	pf		20%		50%		Initial FC	Mounting	Center	Height	Beam	Diameter	FC	Diameter	FC	
					pc	pw	80%	50%	30%	10%										
0	2659	0° - 30°	2227.9	71.6	0	119	119	119	116	116	116	111	111	111	111	111	111	111	111	
5	2758	0° - 40°	2925.0	94.0	1	111	108	106	109	106	104	105	103	101	105	103	101	105	103	101
15	3135	0° - 60°	3107.6	99.9	2	103	99	96	101	98	95	98	95	93	98	95	93	98	95	93
25	2406	0° - 90°	3110.6	100.0	3	96	91	87	95	90	87	92	88	85	96	91	87	92	88	85
35	1126	90° - 180°	0.0	0.0	4	90	84	80	89	84	80	87	82	79	90	84	80	87	82	79
45	189	0° - 180°	3110.6	*100.0	5	84	78	74	83	78	74	81	77	73	84	78	74	81	77	73
55	5	7			6	79	73	69	78	72	68	76	72	68	79	73	69	78	72	68
65	2	2			7	74	68	64	73	68	64	72	67	63	74	68	64	73	68	64
75	0	1			8	70	64	59	69	63	59	68	63	59	70	64	59	69	63	59
85	0	0			9	66	60	56	65	59	56	64	59	55	66	60	56	65	59	55
90	0				10	62	56	52	61	56	52	61	56	52	62	56	52	61	56	52

50% beam - 56.7° 10% beam - 79.7°

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

nLight® AIR Control AccessoriesOrder as separate catalog number. Visit [nLight AIR](#).

Wall Switches	Model Number
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

nLight® AIR Control Accessories (cont.)

Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

UL924 Sequence of Operation

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

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

nLight® The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

nLight® Wired Control AccessoriesOrder as separate catalog number. Visit [nLight](#).

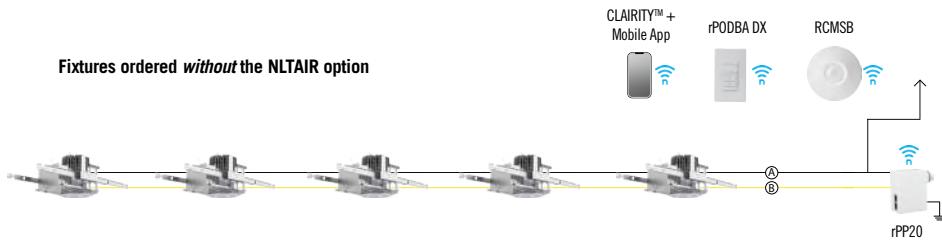
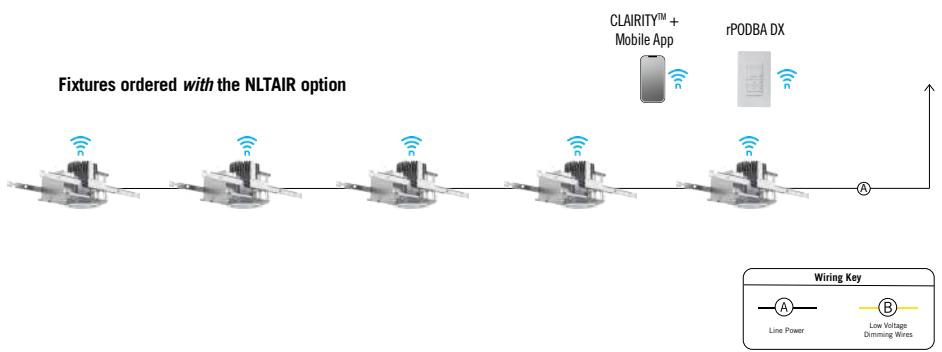
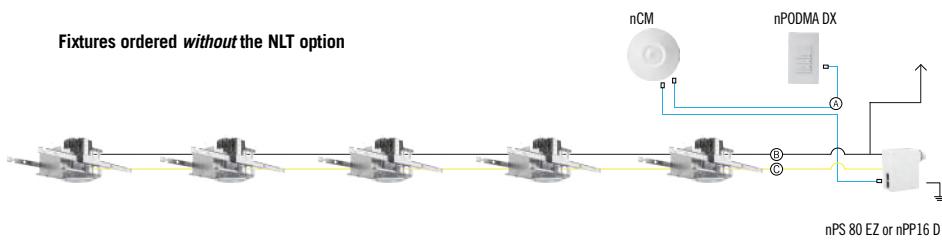
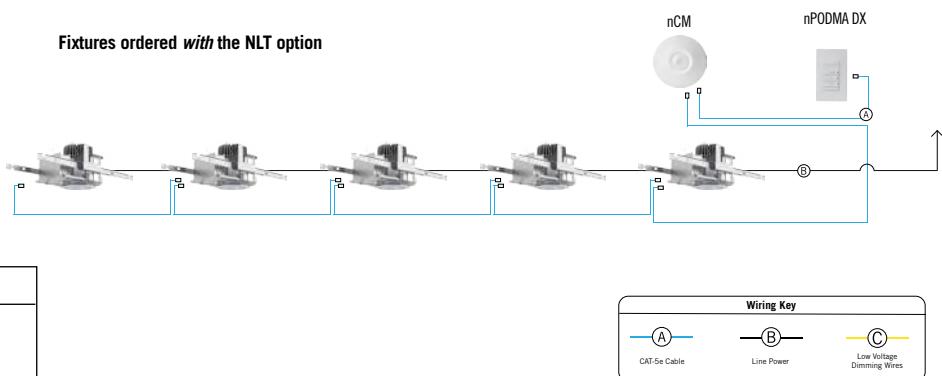
Wall Switches	Model Number
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)

Photocell Controls

Dimming	nCM ADCX
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nLight® Wired Control Accessories (cont.)

Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX
Cat-5 Cables (plenum rated)	
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

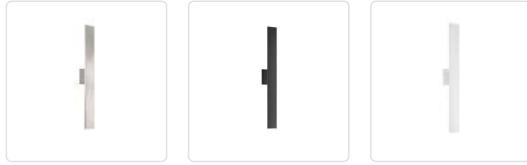
Possibilities for nLight® AIR**Fixtures ordered without the NLTAIR option****Fixtures ordered with the NLTAIR option****Possibilities for nLight® wired****Fixtures ordered without the NLT option****Fixtures ordered with the NLT option**

VESTA

AT7928

WALL

PROJECT

AT7928-BN
Brushed NickelAT7928-BK
BlackAT7928-WH
White

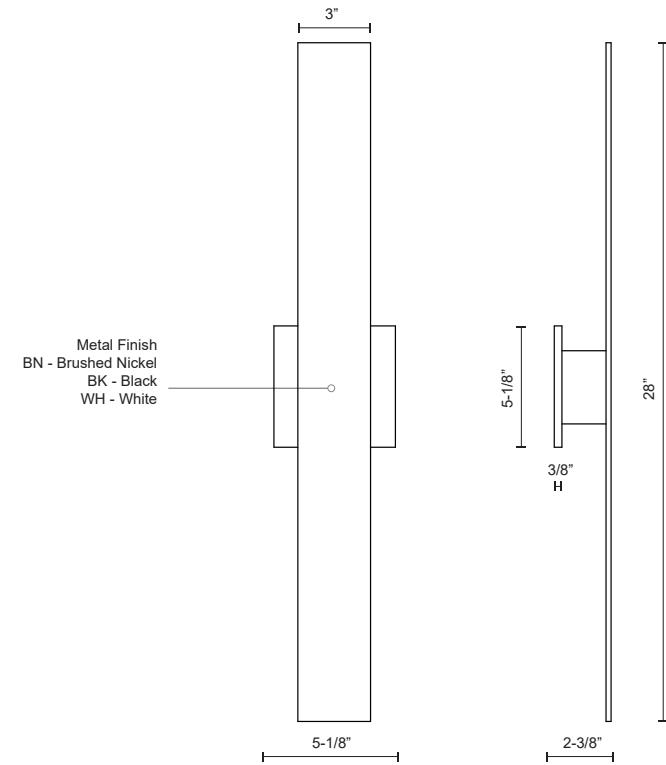
SPECIFICATION DETAILS

* For custom options, consult factory for details.

Fixture Dimensions	W3" x H28" x E2-3/8"
Light Source	AC LED Module
Wattage	31W
Total Lumens	2400lm
Delivered Lumens	BK-1566lm; BN-1575lm; WH-1725lm;
Voltage	120V
Color Temperature	3000K
CRI (Ra)	90CRI
Optional Color Temps	2700K - 5000K Available, Minimum Order Quantities Apply
LED Rated Life	50,000 hours
Dimming	100% - 10%, ELV Dimmer (Not Included)
Glass Details	Frosted Glass
ADA Compliant	Yes
Location	Wet
Compliance	ADA
Warranty	5 Years
Illumination Direction	Backlit
Mounting Style	All Orientation; Wall;
Canopy Dimensions	W5-1/8" x H5-1/8" x E3/8"

DESCRIPTION

Timeless simplicity with versatile purpose is offered with this wall sconce that measures 28 inches in length. Vesta mounts horizontally or vertically from a matching aluminum square affixed in the middle of the rectangular beam of formed aluminum. The concealed LEDs illuminate the mounting plane creating pool of light on the wall. Vesta is available in three different finishes: black or white powder coating and brushed nickel.



KUZCO

19054 28TH AVENUE
SURREY - BC V3Z 6M3
CANADA

WWW.KUZCOLIGHTING.COM

COMMENT



Features

Kurba Large Horizontal with Black Lens is a sleek, direct view, all black profile and lens that keeps the strip concealed in the off-state. Suitable for wet locations and capable of horizontal/side bends up to 2.5" radius. Built with robust factory made power feeds or joiners, Kurba Large Horizontal with Black Lens mounts to a specifically designed aluminum extruded channel.

Applications

Outdoor wet location

Operating Voltage

24VDC

Operating Temperature

-4°F to 113°F (-20°C to 45°C)

Average Life

50,000 hours

Dimming

Low voltage dimmer and class 2 dimming power supply required



RoHS



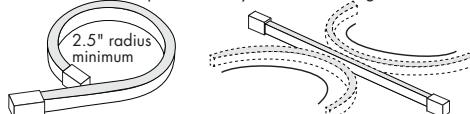
Technical Information

Model	KBL-F-H-BL	CCT INFO / LUMEN MULTIPLIER	
LEDs/ft	38	Color Temperature	Multiplier (ref. -3000K)
Light Output at 3000K	21 lm/ft	2200K	0.98
Average Power Consumption at 4'	3.7 W/ft	2400K	1.00
Ordering Increment	2.19"	2700K	1.03
Maximum Run Length (In Series)	25 ft	3000K	1.00
		3500K	1.08
		4000K	1.10

Constraints

Bend Direction

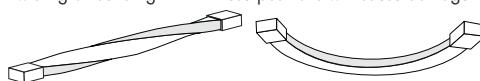
Bend LED in these positions only to avoid damage



Illuminated surface shown in gray

Prohibited Bends

Twisting or bending LED in these positions will cause damage

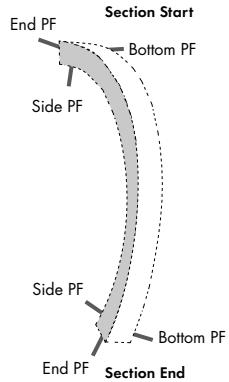


Illuminated surface shown in gray

Note: for horizontal bends refer to Luminii KBM series

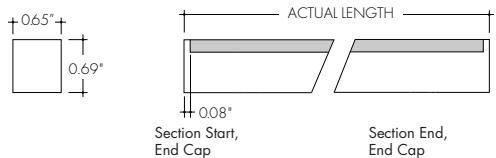
Do not make sharp bends near the endcap

Power Feed Locations

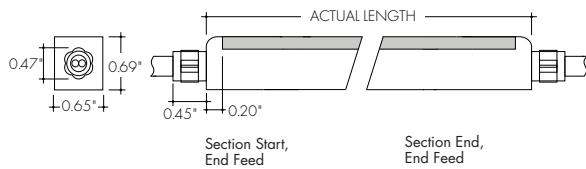


Section Start/End Power Feed Options

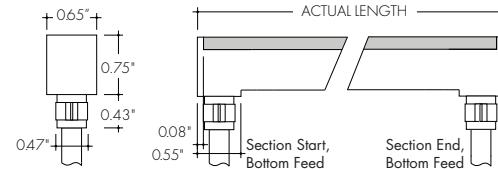
Injection Molded End Cap (IEC)



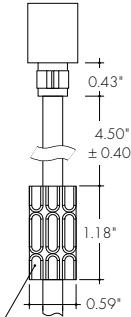
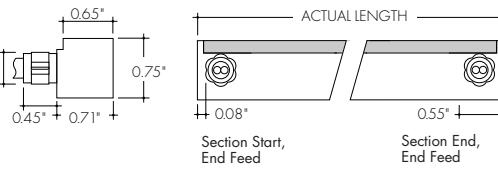
Injection Molded End Power Feed (IEPF)



Injection Molded Bottom Power Feed (IBPF)



Injection Molded Side Power Feed (ISPF)



Ordering Code

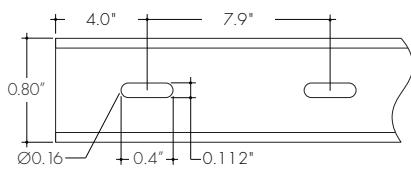
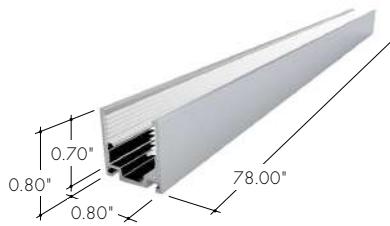
MODEL	CCT	SECTION START	SECTION END	ACTUAL LENGTH
KBL-F-H-BL-Kurba Large, Flat, Horizontal/Side Bend, Black Lens	22K-2200K 24K-2400K 27K-2700K 30K-3000K 35K-3500K 40K-4000K	IEPF-Injection Molded End power feed (9' wire lead) IBPF-Injection Molded Bottom power feed (9' wire lead) ISPF-Injection Molded Side power feed (9' wire lead) IEC-Injection Molded End cap ¹	IEPF-Injection Molded End power feed (9' wire lead) IBPF-Injection Molded Bottom power feed (9' wire lead) ISPF-Injection Molded Side power feed (9' wire lead) IEC-Injection Molded End cap ¹	See Power Consumption table on page 3 for available lengths

1 - 6-8 weeks lead time. Kurba injected-molded orders are non-cancellable. IEFP, IBPF, ISPF cannot be mixed and matched from Start to End except with IEC.
2 - ISPF Side power feeds selected for both Section Start and End will be located on the same side of the strip.

Mounting Accessories & Optional Connectors

MC-NFS-KBL-F-V-78

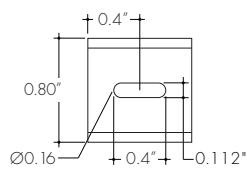
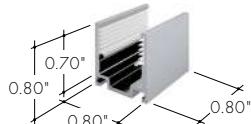
Mounting Channel with Grip, 78"



Aluminum mounting channel providing grip. For use with light strip mounted to the ceiling.

MB-KBL-F-V-ST

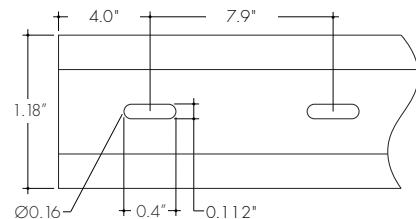
Mounting Bracket with Grip



Aluminum mounting bracket providing grip. For use with light strip mounted to the ceiling. 1 recommended every 8 in.

MC-FS-KBL-F-V-78

Flanged Mounting Channel with grip, 78"



Flanged aluminum mounting channel providing grip. For use with light strip mounted to the ceiling.

MC-BNS-KBL-F-V-34

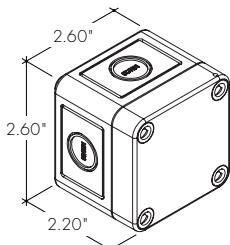
Bendable Mounting Channel with grip, 34"



Bendable stainless steel mounting channel providing grip. For use with light strip mounted to the ceiling.

LVSP-WET

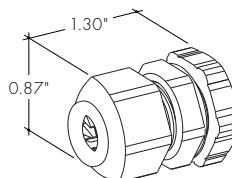
Splice Box



Wet rated, low voltage splice box, gray.

LVSP-WET-CM

Connector



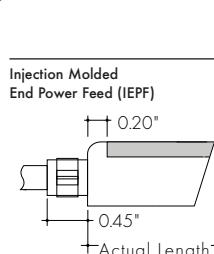
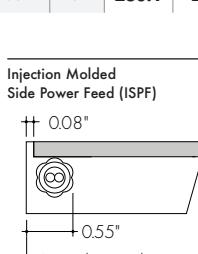
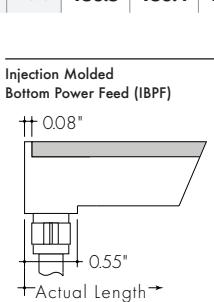
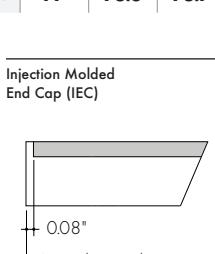
Low voltage splice box wet cable management, gray.

Power Consumption Per Fixture Length

Based on operation with PDCU series of power supplies. Use Actual Length for Order Code Entry
 Tolerance for Actual Lengths less than 6 ft is +/- 0.2", Actual Lengths between 6 ft and 16 ft is +/- 0.3", and Actual Lengths greater than 16 ft is +/- 0.6"

Nominal Length (in)	W	Actual Length (in)			Nominal Length (in)	W	Actual Length (in)			Nominal Length (in)	W	Actual Length (in)			Nominal Length (in)	W	Actual Length (in)		
		IEPF	IEPF	IEC IBPF ISPF			IEPF	IEPF	IEC IBPF ISPF			IEPF	IEPF	IEC IBPF ISPF			IEPF	IEPF	IEC IBPF ISPF
3	—	—	—	—	80	24.1	79.1	79	78.9	(13 ft) 156	47.5	155.7	155.6	155.5	233	70.8	232.3	232.1	232
5	—	—	—	—	81	24.8	81.3	81.2	81.1	158	48.1	157.9	157.8	157.7	235	71.5	234.5	234.3	234.2
7	2.1	7	6.8	6.7	(7 ft) 84	25.5	83.5	83.4	83.3	160	48.8	160.1	160	159.8	237	72.1	236.6	236.5	236.4
9	2.8	9.1	9	8.9	86	26.1	85.7	85.6	85.5	162	49.5	162.3	162.1	162	(20 ft) 239	72.8	238.8	238.7	238.6
(1 ft) 11	3.5	11.3	11.2	11.1	88	26.8	87.9	87.8	87.7	165	50.1	164.5	164.3	164.2	241	73.5	241	240.9	240.8
14	4.1	13.5	13.4	13.3	90	27.5	90.1	90	89.8	167	50.8	166.6	166.5	166.4	243	74.1	243.2	243.1	243
16	4.8	15.7	15.6	15.5	92	28.1	92.3	92.2	92	(14 ft) 169	51.5	168.8	168.7	168.6	246	74.8	245.4	245.3	245.1
18	5.5	17.9	17.8	17.7	95	28.8	94.5	94.3	94.2	171	52.1	171	170.9	170.8	248	75.5	247.6	247.5	247.3
20	6.1	20.1	20	19.8	(8 ft) 97	29.5	96.6	96.5	96.4	173	52.8	173.2	173.1	173	250	76.1	249.8	249.6	249.5
22	6.8	22.3	22.2	22	99	30.1	98.8	98.7	98.6	176	53.5	175.4	175.3	175.2	(21 ft) 252	76.8	252	251.8	251.7
(2 ft) 24	7.5	24.5	24.3	24.2	101	30.8	101	100.9	100.8	178	54.1	177.6	177.5	177.3	254	77.5	254.1	254	253.9
27	8.1	26.6	26.5	26.4	103	31.5	103.2	103.1	103	(15 ft) 180	54.8	179.8	179.6	179.5	257	78.1	256.3	256.2	256.1
29	8.8	28.8	28.7	28.6	106	32.1	105.4	105.3	105.2	182	55.5	182	181.8	181.7	259	78.8	258.5	258.4	258.3
31	9.5	31	30.9	30.8	(9 ft) 108	32.8	107.6	107.5	107.3	184	56.1	184.1	184	183.9	261	79.5	260.7	260.6	260.5
33	10.1	33.2	33.1	33	110	33.5	109.8	109.7	109.5	187	56.8	186.3	186.2	186.1	(22 ft) 263	80.1	262.9	262.8	262.6
(3 ft) 35	10.8	35.4	35.3	35.2	112	34.1	112	111.8	111.7	189	57.5	188.5	188.4	188.3	265	80.8	265.1	265	264.8
38	11.5	37.6	37.5	37.3	114	34.8	114.1	114	113.9	(16 ft) 191	58.1	190.7	190.6	190.5	268	81.5	267.3	267.1	267
40	12.1	39.8	39.7	39.5	116	35.5	116.3	116.2	116.1	193	58.8	192.9	192.8	192.7	270	82.1	269.5	269.3	269.2
42	12.8	42	41.8	41.7	119	36.1	118.5	118.4	118.3	195	59.5	195.1	195	194.8	272	82.8	271.6	271.5	271.4
44	13.5	44.1	44	43.9	(10 ft) 121	36.8	120.7	120.6	120.5	198	60.1	197.3	197.1	197	274	83.5	273.8	273.7	273.6
46	14.1	46.3	46.2	46.1	123	37.5	122.9	122.8	122.7	200	60.8	199.5	199.3	199.2	(23 ft) 276	84.2	276	275.9	275.8
(4 ft) 49	14.8	48.5	48.4	48.3	125	38.1	125.1	125	124.8	202	61.5	201.6	201.5	201.4	279	84.8	278.2	278.1	278
51	15.5	50.7	50.6	50.5	127	38.8	127.3	127.1	127	(17 ft) 204	62.1	203.8	203.7	203.6	281	85.5	280.4	280.3	280.1
53	16.1	52.9	52.8	52.7	130	39.5	129.5	129.3	129.2	206	62.8	206	205.9	205.8	283	86.2	282.6	282.5	282.3
55	16.8	55.1	55	54.8	(11 ft) 132	40.1	131.6	131.5	131.4	208	63.5	208.2	208.1	208	285	86.8	284.8	284.6	284.5
57	17.5	57.3	57.2	57	134	40.8	133.8	133.7	133.6	211	64.1	210.4	210.3	210.2	(24 ft) 287	87.5	286.9	286.8	286.7
(5 ft) 60	18.1	59.5	59.3	59.2	136	41.5	136	135.9	135.8	213	64.8	212.6	212.5	212.3	289	88.2	289.1	289	288.9
62	18.8	61.6	61.5	61.4	138	42.1	138.2	138.1	138	(18 ft) 215	65.5	214.8	214.6	214.5	292	88.8	291.3	291.2	291.1
64	19.5	63.8	63.7	63.6	141	42.8	140.4	140.3	140.2	217	66.1	217	216.8	216.7	294	89.5	293.5	293.4	293.3
66	20.1	66	65.9	65.8	143	43.5	142.6	142.5	142.3	219	66.8	219.1	219	218.9	296	90.2	295.7	295.6	295.5
68	20.8	68.2	68.1	68	(12 ft) 145	44.1	144.8	144.6	144.5	222	67.5	221.3	221.2	221.1	298	90.8	297.9	297.8	297.6
70	21.5	70.4	70.3	70.2	147	44.8	147	146.8	146.7	224	68.1	223.5	223.4	223.3	(25 ft) 300	91.5	300.1	300	299.8
(6 ft) 73	22.1	72.6	72.5	72.3	149	45.5	149.1	149	148.9	226	68.8	225.7	225.6	225.5					
75	22.8	74.8	74.7	74.5	152	46.1	151.3	151.2	151.1	(19 ft) 228	69.5	227.9	227.8	227.6					
77	23.5	77	76.8	76.7	154	46.8	153.5	153.4	153.3	230	70.1	230.1	230	229.8					

Note: all values are rounded to the nearest 0.1 inch



Power Supplies

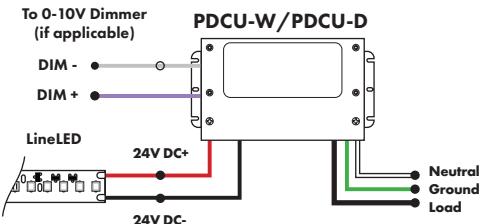
See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Universal Power Supply 1% 120VAC - 277VAC

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

0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%.

For a complete list of compatible dimmers, see [Compatible Dimming Chart](#) on the Resources page.

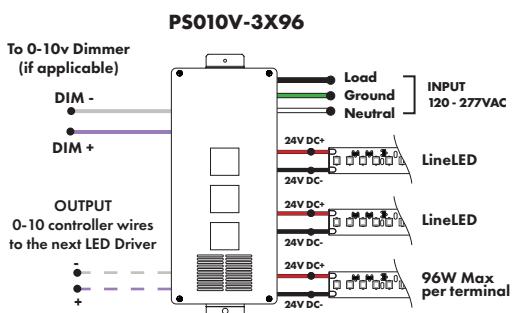
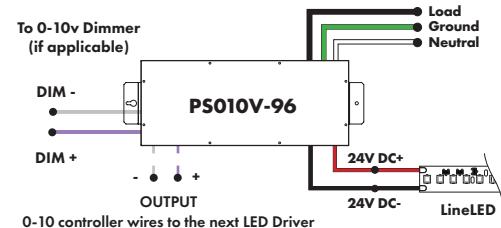


MODELS	PDCU-W 96W	PDCU-W 3X96W	PDCU-D 30W	PDCU-D 60W	PDCU-D 96W	PDCU-D 3X96W
Length	8.66"	11.85"	6.10"	7.93"	8.25"	9.57"
Width	3.73"	4.32"	3.35"	3.35"	4.10"	5.94"
Depth	1.61"	1.81"	1.33	1.32"	1.56"	1.13"

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

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

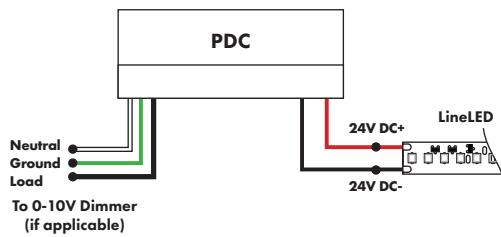
MODELS	96W	3X96
Length	14.40"	15.75"
Width	5.20"	6.62"
Depth	2.60"	4.95"



Triac, MLV, ELV, & PWM Compatible Dimmers

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

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



Power Supplies

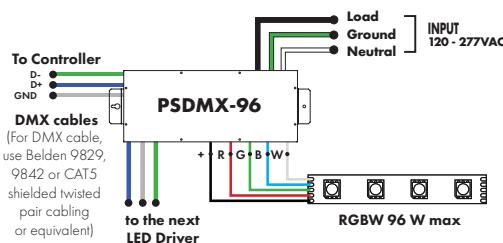
See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

DMX Dimming Power Supplies 120VAC - 277VAC

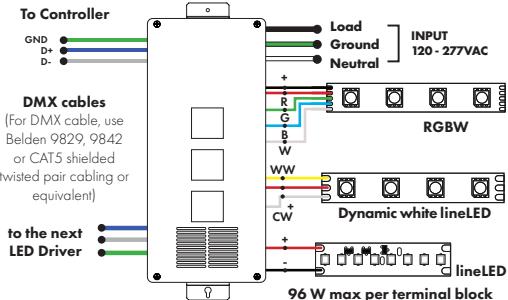
MODEL	POWER	OUTPUT
PSDMX -	DMX Power Supply dims down to 0%	96 - 96 Watt 3X96 - 3 X 96 Watt
		24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers

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



PSDMX-3X96

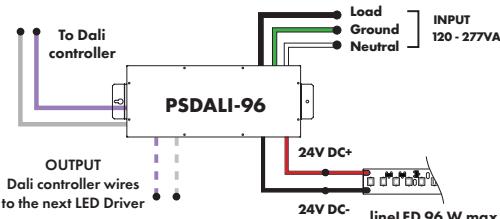


DALI 0% Dimming Power Supplies 120VAC - 277VAC

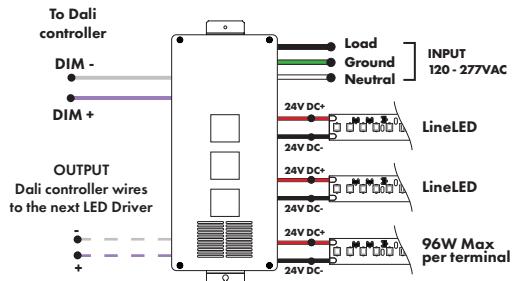
MODEL	POWER	OUTPUT
PSDALI -	DALI Power Supply dims down to 0%	96 - 96 Watt
		3X96 - 3 X 96 Watt

Features eldoLED's LINEARdrive configurable dimmable drivers

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



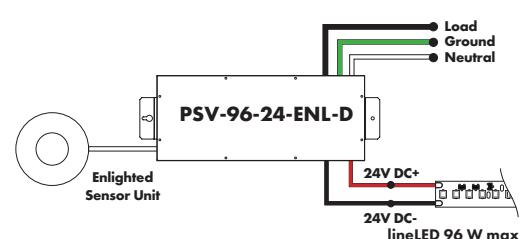
PSDALI-3X96



Enlighted Enabled Dimming Power Supplies 120VAC - 277VAC

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

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



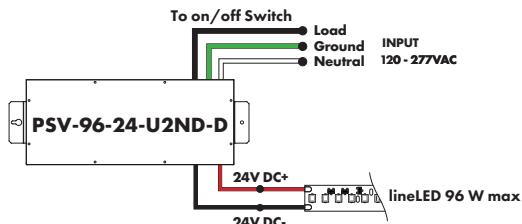
Power Supplies

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

Non-Dimming Power Supply 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	U2ND - Non Dimming	D - Damp

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



Luminii is a Lutron OEM Advantage Partner

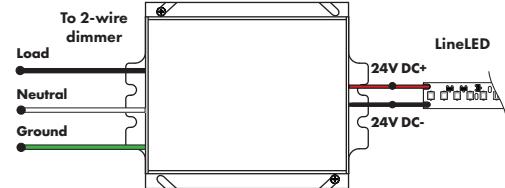
Lutron Power Supplies 1%

MODEL	MODEL
LTEA4U1UKL-CV240	L3DA4U1UKL-CV240

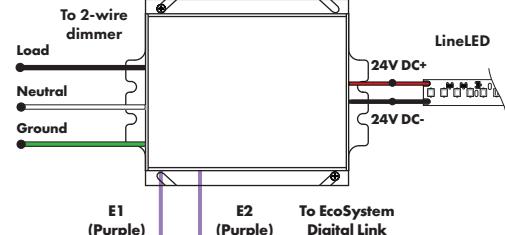
Lutron - HiLume™ 1% 2-wire LED Driver 40W max
(120V forward phase only)

MODELS	LTEA4U1UKL-CV240	L3DA4U1UKL-CV240
Length	4.89"	4.98"
Width	4.00"	4.00"
Depth	2.62"	2.62"

LTEA4U1UKL-CV240



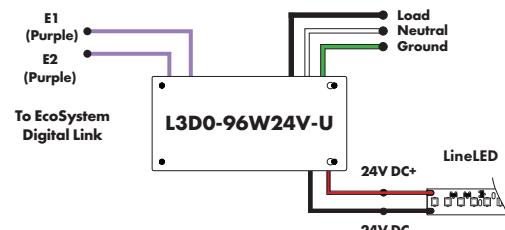
L3DA4U1UKL-CV240



Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 0.1%

MODEL	MODELS	L3D0
L3D0-96W24V-U	Length	10.50"
HiLume™ 0.1% EcoSystem Voltage LED Driver with Soft-On, Fade-to-Black™ 96W max	Width	5.50"
	Depth	2.00"

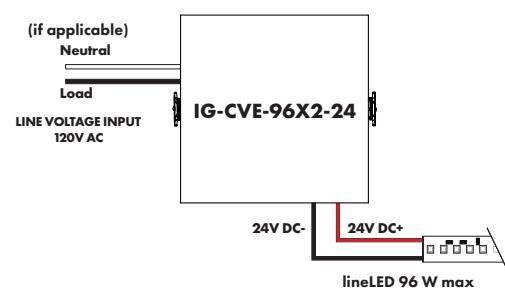


In-Ground Power Supplies

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

Blank - 120 V 277 - 240/277 V

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



SKILL

SURFACE MOUNTED - FLUSH MOUNTED

Type:

SPECIFICATION SHEET

Project :

Page: 1 of 8

Skill is a unique LED luminaire, assuring high lighting performance and total absence of glare. The most modern electronic technology is contained in the thickness of only 3 cm and provides an excellent quality of light while saving energy.



Luminaire characteristics:	Power input: 4.7W to 23.8W (system wattage) Lumens: 157lm to 785lm (for 3000K, 90CRI) Luminaire efficacy: Up to 35lm/W
Source:	LED Module (LM-80 tested) 2700K: 90CRI, 3000K: 90CRI, 4000K: 90CRI.
Lumen maintenance:	80% of initial lumens at 70 000 hours(L80)(LM-79)
Optics:	Accent light.
Material:	Body: Die-cast aluminum Diffuser: Toughened glass.
Mounting:	See mounting options on page 4.
Electrical:	High efficiency electronic power supply, rated at 50 000 hours, 120-277V. See remote LED Driver options on page 3.
Dimming	0-10V down to 15% (120-277V), see page 3 for available remote options.
Finish:	White or aluminum gray painted finish, following a double powder paint in 3 step process: surface treatment containing ceramic nano particles (Bonderite). Epoxy primer paint. Polyester powder paint with high resistance against UV rays and harsh weather conditions.
Weight:	Miniskill vertical: 1.16lb (0.53kg) Miniskill square: 1.34lb (0.61kg) Miniskill round: 1.23lb (0.56kg) Skill square: 3.26lb (1.48kg) Skill square large: 6.55lb (2.97kg) Skill round: 3.06lb (1.39kg) Skill rectangular: 3.15lb (1.43kg)
Warranty:	5 year limited warranty.
Ratings:	IP65, IK08
Certification:	cULus listed for wet location

SKILL

SURFACE MOUNTED - FLUSH MOUNTED

Type:

Project :

SPECIFICATION SHEET

Page: 2 of 8

ORDERING INFO- - - - -
FIXTURE- - - - -
BACK BOX**MODEL**

<input type="checkbox"/> S6230 - Miniskill vertical	<input type="checkbox"/> S6260 - Skill square	<input type="checkbox"/> S6240 - Skill rectangular
<input type="checkbox"/> S6250 - Miniskill square	<input type="checkbox"/> S6255 - Skill square large ⁽¹⁾	
<input type="checkbox"/> S6270 - Miniskill round	<input type="checkbox"/> S6280 - Skill round	

LED

<input type="checkbox"/> H - 2700K, 90CRI	<input type="checkbox"/> W - 3000K, 90CRI	<input type="checkbox"/> N - 4000K, 90CRI
--	--	--

MOUNTING ⁽²⁾

<input type="checkbox"/> DF - Surface mounted with direct feed	<input type="checkbox"/> JB - Surface mounted junction box	<input type="checkbox"/> FM - Recessed mounted flush with surface	<input type="checkbox"/> J2 - Surface mounted single gang box
<input type="checkbox"/> FW - Surface mounted with fixture whip			

VOLTAGE

<input type="checkbox"/> UNV - 120-277V	<input type="checkbox"/> REM - Remote
--	--

FINISH

<input type="checkbox"/> 01 - White	<input type="checkbox"/> 14 - Aluminum
--	---

DIMMING

<input type="checkbox"/> D10 - 0-10V ⁽³⁾⁽⁴⁾

⁽¹⁾ Available with surface mounted junction box (JB) mounting and 120-277V (UNV) voltage.⁽²⁾ See previous page 4-5 for model availability.⁽³⁾ Available with **6250, 6260, 6270, 6280, 6255** models.⁽⁴⁾ Available with 120-277V (UNV) voltage.

SKILL

SURFACE MOUNTED - FLUSH MOUNTED

Type:

Project :

SPECIFICATION SHEET

Page: 3 of 8

REMOTE POWER SUPPLY OPTIONS

(TO BE ORDERED SEPARATELY)

							Miniskill S6230 / 50 / 70	Skill S6260 / 80	Skill Rectangular S6240
							5.2W*	11W*	12W*
Watts	Voltage	Rated	Dimming protocol	Dimming range	Dimension	Max distance**	Min-Max Units		
<input type="checkbox"/>	4444-0024-020-120-ND							1-3	1
20	120V	Indoor	None	None	6" x 4" x 3" (152 x 102 x 76mm)	30ft(9m)			
<input type="checkbox"/>	4448-0024-060-UNV-ND							1-11	1-5
60	120-277V	Indoor	None	None	10" x 8" x 4" (254 x 203 x 102mm)	30ft(9m)			
<input type="checkbox"/>	4549-0024-075-UNV-D10							1-14	1-6
75	120-277V	Outdoor	0-10V	Down to ±10%	8" x 1" x 2" (203 x 25 x 51mm)	30ft(9m)			
<input type="checkbox"/>	4545-0024-075-UNV-ND							1-14	1-6
75	120-277V	Outdoor	None	None	11" x 3" x 2" (279 x 76 x 51mm)	30ft(9m)			
<input type="checkbox"/>	4551-0024-080-120-LTE							1-15 Dim 6-15	1-6 Dim 3-6
80	120V	Outdoor	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	14" X 5" X 2" (356 X 127 X 51mm)	30ft(9m)			
<input type="checkbox"/>	4448-0024-150-UNV-D10							1-28	1-13
150	120-277V	Indoor	0-10V	Down to ±10%	10" x 8" x 4" (254 x 203 x 102mm)	25ft (7.5m)			
<input type="checkbox"/>	4546-0024-200-2C-UNV-ND							1-38	1-18
200	120-277V	Outdoor	None	None	12" X 5" X 2" (305 X 127 X 51mm)	30ft (9m) Per channel			

* Wattage requirement for one (1) fixture (Remote fixture only).

** Contact factory for longer remote distance.

SKILL

SURFACE MOUNTED - FLUSH MOUNTED

Type:

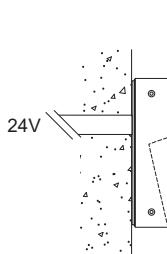
Project :

SPECIFICATION SHEET

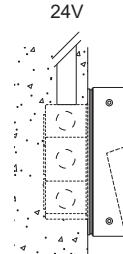
Page: 4 of 8

MOUNTING OPTIONS**Miniskill**

(S6250 - S6270)



DF-REM - Direct feed with remote power supply.
Connections made inside fixture
Max 2x18AWG
Installed directly to surface.



JB-REM - 4" junction box with remote power supply.
Mounting adapter plate for junction box installation.
Min 1 1/2" (38mm) deep



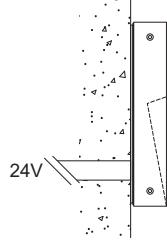
FM-REM - Recessed mounted flush with surface. Remote power supply.
Cast in concrete application, supplied with back box **S6256 - S6278**
Min 2 1/8" (73mm) deep



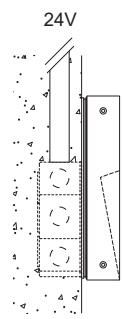
JB-UNV - 4" junction box with integral power supply.
Mounting adapter plate for junction box installation.
Min 1 1/2" (38mm) deep

Skill

(S6240 - S6260 - S6280)



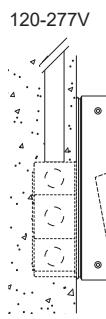
DF-REM - Direct feed with remote power supply.
Connections made inside fixture
(14-18AWG only).Max Ø3/8" power cable.
Installed directly to surface.



JB-REM - 4" junction box with remote power supply.
Mounting adapter plate for junction box installation.
Min 1 1/2" (38mm) deep



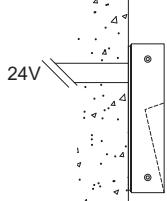
FM-REM - Recessed mounted flush with surface. Remote power supply.
Cast in concrete application, supplied with back box **S6247 - S6268 - S6288**
Min 2 1/8" (73mm) deep



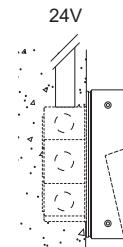
JB-UNV - 4" junction box with integral power supply.
Mounting adapter plate for junction box installation.
Min 1 1/2" (38mm) deep

Miniskill Vertical

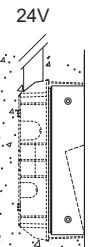
(S6230)



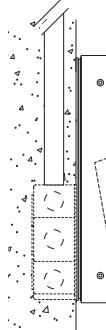
FW-REM - Fixture whip to remote power supply.
Installed directly to surface with recessed pipe, exposed cable or electrical conduit.



JB-REM - 2" junction box with remote power supply.
Mounting adapter plate for junction box installation.
Min 1 1/8" (48mm) deep



FM-REM - Recessed mounted flush with surface. Remote power supply.
Cast in concrete application, supplied with back box **S6239**
Min 2 1/8" (73mm) deep



JB-UNV - 4" junction box with integral power supply.
Mounting adapter plate for junction box installation.
Min 1 1/2" (38mm) deep

SKILL

SURFACE MOUNTED - FLUSH MOUNTED

Type:

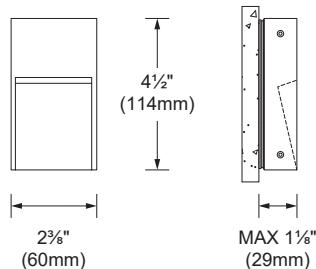
Project :

SPECIFICATION SHEET

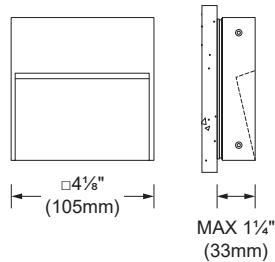
Page: 5 of 8

DIMENSIONS**Miniskill vertical**

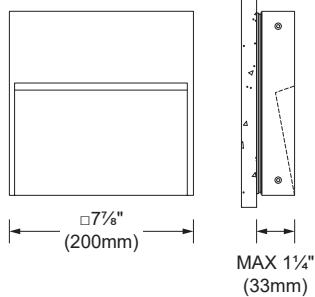
S6230

**Miniskill Square**

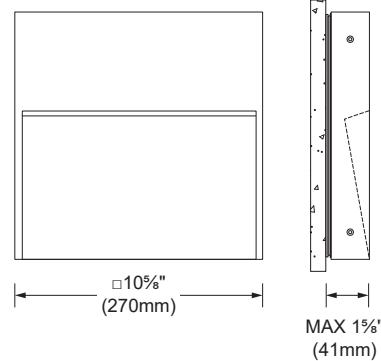
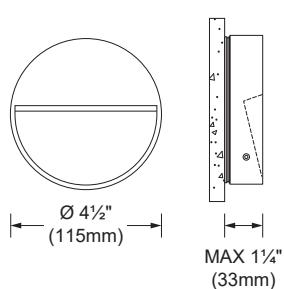
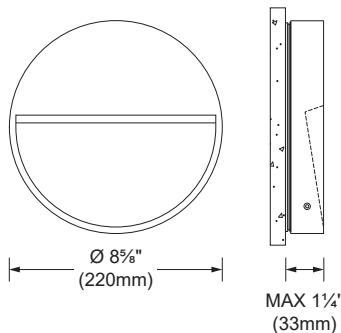
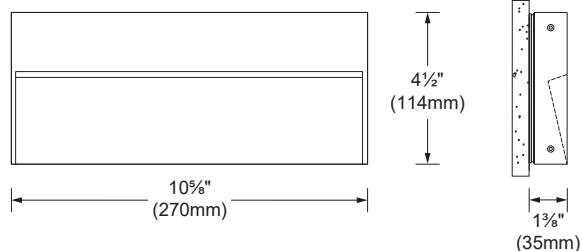
S6250

**Skill Square**

S6260

**Skill Square Large**

S6255

**Miniskill Round**
S6270**Skill Round**
S6280**Skill Rectangular**
S6240

SKILL

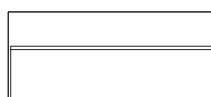
SURFACE MOUNTED - FLUSH MOUNTED

Type:

Project :

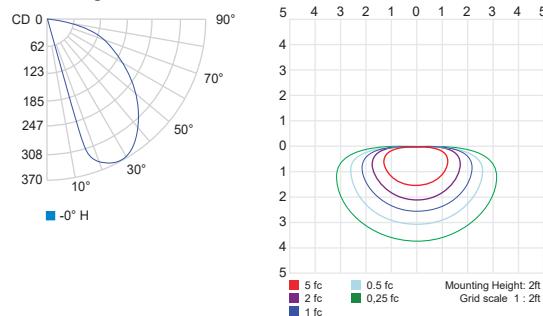
SPECIFICATION SHEET

Page: 8 of 8

PHOTOMETRIC DATAVisit sistemalux.com for complete photometric data.**Skill Rectangular**

CCT (K)	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODEL
3000K	90	13.5W	Accent light	420	31	363	S6240W

Accent light (3000K, 90CRI)



CCT options	2700K	3000K	4000K
CRI options	90CRI	90CRI	90CRI
Multiplier	0.94	1	1.02

LED Wall mount

The key design element of our LED wall mount is the removable lens. This feature allows for three distinctive styles during installation.



ADA
COMPLIANT



JA8
CERTIFIED



Model	Watts	Delivered lumens	LED lumens	CRI	Color °T	Voltage
LEDWALL-B	29 W	2100 lm	2260 lm	90	3000 K	120 V - 277 V

Specifications

Square housing made of extruded aluminum

Fixture canopy made of die-cast aluminum

LED module is mounted on an aluminum heat sink to maximize heat dissipation and extend product life

The square wall mount comes with 3 optical options:

- Bright aluminum reflector that provides a 45° beam spread
- Frosted glass lens to allow a wider beam spread
- Die-caster aluminum cap to allow a down only version

Compatible with TRIAC, ELV and 0-10 V dimmers

The LED board is sealed with a clear tempered glass lens to assure weatherproof operation

Baked powder paint coat for a highly durable finish

Integrated dimmable driver

JA8 certified

ENERGY STAR certified

ADA compliant

Suitable for wet locations

Refer to website for dimmer compatibility

Ideal operating temperature:
-20° to 40° C

5-year warranty

Finish

BK Black

SG Silver grey

WH White

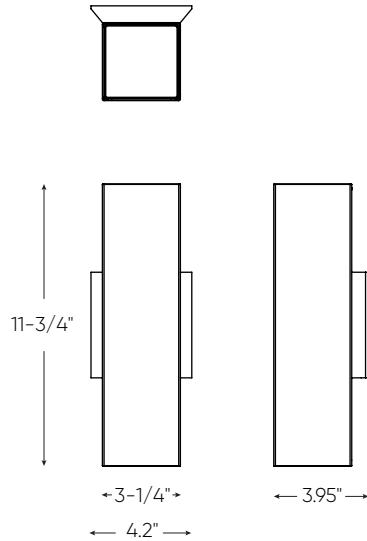
Order example

LEDWALL-B-SG

LEDWALL-B square LED wall mount in a silver grey finish

Note

Other Color °T and Finishes available, but may require MOQ's and longer lead times. Please contact your DALS representative for more information.

LEDWALL-B

ZXL11

LED Area Accent . ZX11 Series



Product Features

- Area accent lighting for architectural and landscape application.
- ETL outdoor wet location listed. IP67 standard.
- Machined from solid billet 6061-T6 corrosion resistant aluminum.
- 240° vertical and 360° horizontal adjustment via unique swivel stem design.
- Modular components - field changeable LED module & beam spread reflectors.



Specification

Materials: Machined from billet 6061-T6 corrosion resistant aluminum with 304 stainless steel hardware. Available in 304/316 stainless steel or 360 brass upon request.

Hood and Glare Shield: 3 available hood options to suit any application. 3 optional glare shields (short, long, angled) to complement each hood choice. See page 3 for details.

Voltage: 12V AC/DC. Requires remote step down transformer.

Wattage: 5 or 7W HK LED.

Light Source: CRI 83. Available in CRI95 upon request. The chromaticity range is within a 3-step McAdam Ellipse. Standard CCT options are 2700K, 3000K, 4000K.

Lamp Base/Socket: Innovative cone-shaped lamp base and receptacle socket maximize the surface contact area to dissipate heat more effectively. See "Resources" for details.

Dimmability: MLV or ELV.

Finish: Polyester powder coat on all aluminum materials with RoHS compliant procedures. Anodized finish is available. Stainless steel and brass models are provided with brushed surface.

Optical Accessories: Accepts up to 3 accessories (hexcel louver, optical lenses, dichroic color filters, etc.). Secured in place with metal snap ring.

Mounting Method: Mounts using 1/2"-14 NPS male fitting compatible with all HK Lighting Group mounting devices.

Ordering Guide

EXAMPLE: ZXL11 - A - GSL - 12V - 7 - 27 - 40 - BK - LVR - MH02

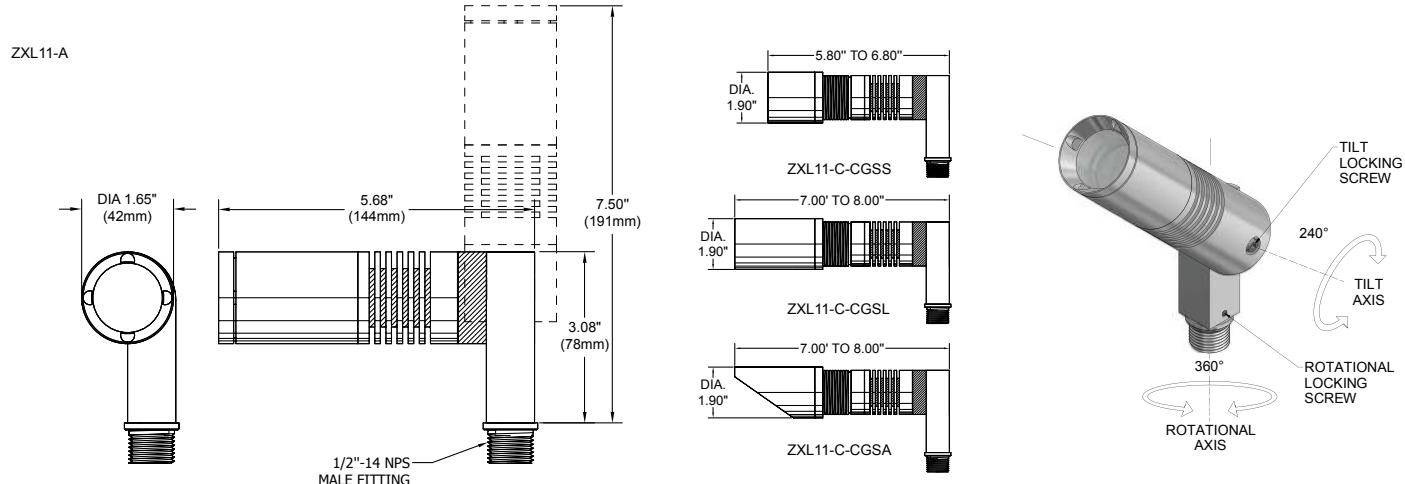
SERIES	MATERIAL	HOOD	OPTIONAL GLARE SHIELD	VOLTAGE	WATTAGE	CCT	OPTICS	FINISH	OPTIONAL SELECT UP TO 3 OPTIC ACCESSORIES	OPTIONAL MOUNTING ACCESSORIES
ZXL11	-	-	-	12V	-	-	-	-	-	-
	BLANK Aluminum(Standard)	A A-HOOD	GSL	5 5W	27 2700K	29 29°	Standard	LVR Hexcel Louver	See page 3 for quick reference, or "Accessories" link for detailed specification.	
	NBR Natural Brass	B B-HOOD	GSA	7 7W	30 3000K	40 40°	BK Black Powder Coat	OSL Overall Spread Lens		
	NSS Natural Stainless Steel	C GSS			40 4000K	57 57°	BZ Bronze Powder Coat	LSL Linear Spread Lens		
	CU Natural Copper	C C-HOOD	CGSL CGSA CGSS				WT White Powder Coat	SOL Solite Soft Focus		
							Premium	DF Dichroic Filter		
							ABK Anodized Black			
							ACL Anodized Clear			
							CC Custom Powder Coat			

Remote Step Down Transformer (Optional).
See ["Accessories"](#) link for detailed specification.

Model	Wattage(VA)	Primary Voltage(VAC)	Secondary Volt(VAC)	Dimming Method	Characters
TXM	20 40 60 100 150 300	120 or 277	12	MLV	Outdoor, Wall Mount, Compact
TXS	150 300 600	120	Multi-tap of 12, 13, 14, 15 VAC	MLV	Outdoor, Wall mount, Stainless Steel Case
IGT	50(120V only) 100 300 600	120 or 277	12	MLV	in grade
TXE	60	120, 230, or 277	12	ELV	Needs Enclosure, 6ft working distance

NOTE: Specification and dimensions subject to change without notice.

Product Drawings



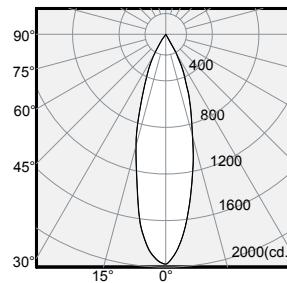
Photometry & Energy Data

MODEL

ZXL11-7W-N

Input Power	8.1W
Color Temperature (CCT)	3000K
Color Rendering Index (Ra)	80
Beam Angle	28.7°
Max. Candlepower	1964cd
Delivered Lumens	636lm
Efficacy	78lm/W

Polar Graph - Intensity



Cone of Light - Illuminance

Center Beam (fc)	Beam Diameter	Distance
491		1.0'
123		2.0'
55		3.0'
31		4.0'
20		5.0'

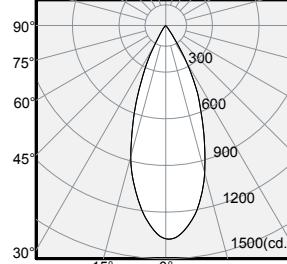
1/2 Beam Angle: 28.7°

MODEL

ZXL11-7W-M

Input Power	8.1W
Color Temperature (CCT)	3000K
Color Rendering Index (Ra)	80
Beam Angle	39.2°
Max. Candlepower	1383cd
Delivered Lumen	632lm
Efficacy	78lm/W

Polar Graph - Intensity



Cone of Light - Illuminance

Center Beam (fc)	Beam Diameter	Distance
346		1.4'
86		2.9'
38		4.3'
22		5.7'
14		7.1'

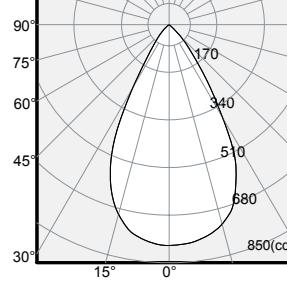
1/2 Beam Angle: 39.2°

MODEL

ZXL11-7W-W

Input Power	8.1W
Color Temperature (CCT)	3000K
Color Rendering Index (Ra)	80
Beam Angle	56.9°
Max. Candlepower	811cd
Delivered Lumen	675lm
Efficacy	83lm/W

Polar Graph - Intensity



Cone of Light - Illuminance

Center Beam (fc)	Beam Diameter	Distance
203		2.2'
135		4.3'
23		6.5'
13		8.7'
8		10.8'

1/2 Beam Angle: 56.9°

Wattage Multiplier Table

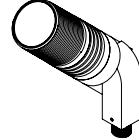
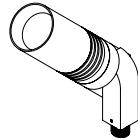
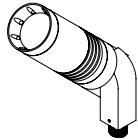
Wattage	Multiplier
5Watt	0.67
8Watt	1.00

CCT Multiplier Table

Color Temp.	Multiplier
2700K	0.96
3000K	1.00
4000K	1.03

Product Options & Accessories

Hood Options



A-HOOD

Versatile hood with 8 weep holes for water drainage. Regressed lens for glare control. Suggested for general use or when fixture is aimed in an up position.

B-HOOD

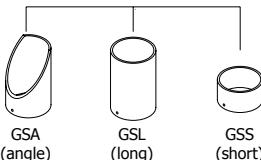
Similar to A hood but without weep holes. Regressed lens for glare control. Used in an interior or down light application.

C-HOOD

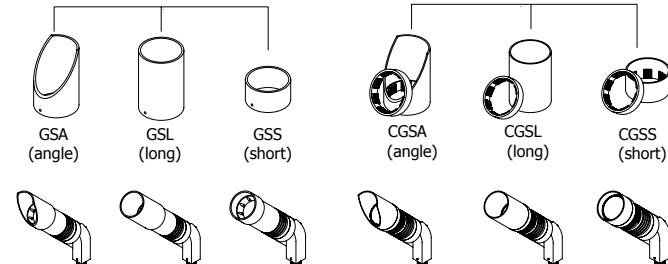
Flush hood with machined threading on the outside for attachment of C-style glare shield, cleverly designed with hidden drainage channels.

Optional Glare Shield

For Use With A & B Hood
Fastened With Set Screw

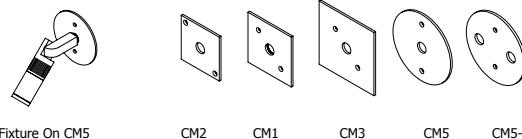


For Use With C Hood
Fastened With Locking Ring



Mounting Accessories

Canopy Plate:



Fixture On CMS

CM2

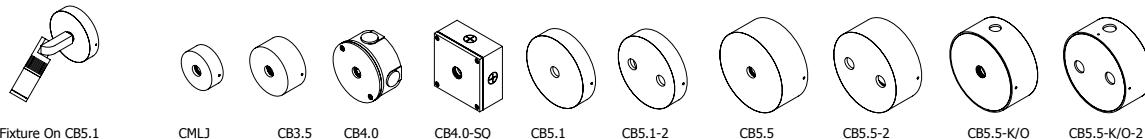
CM1

CM3

CM5

CM5-2

Surface Mount Box:



Fixture On CB5.1

CMLJ

CB3.5

CB4.0

CB4.0-SQ

CB5.1

CB5.1-2

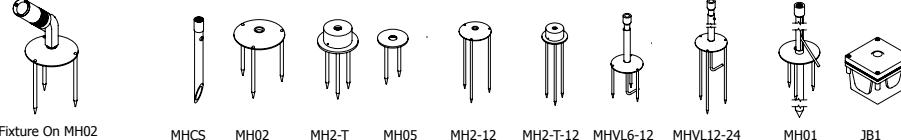
CB5.5

CB5.5-2

CB5.5-K/O

CB5.5-K/O-2

Ground Mount:



Fixture On MH02

MHCS

MH02

MH2-T

MH05

MH2-12

MH2-T-12

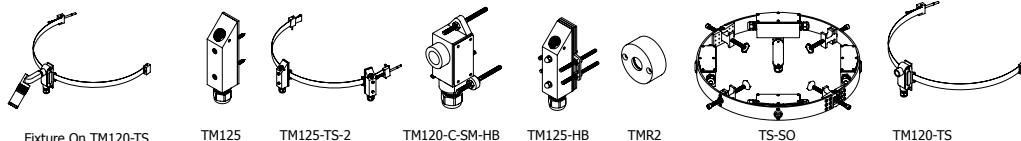
MHVL6-12

MHVL12-24

MH01

JB1

Tree Mount:



Fixture On TM120-TS

TM125

TM125-TS-2

TM120-C-SM-HB

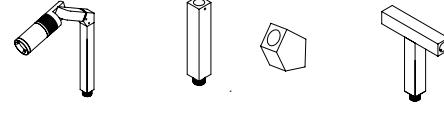
TM125-HB

TMR2

TS-SO

TM120-TS

Extension:



Fixture With EX,EL

EX

EL

T-BAR

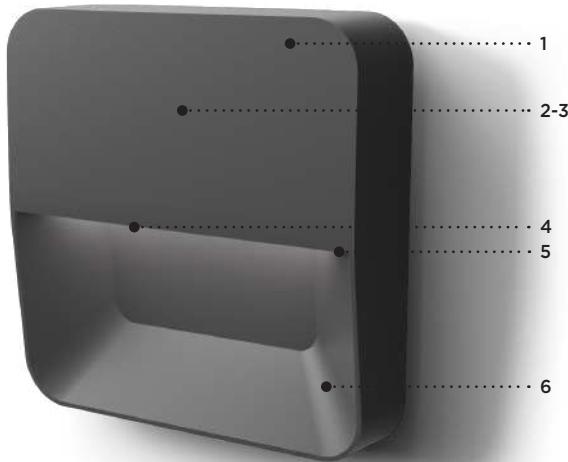
Sign Light Arm: Please See The Sign Light Section

Notes



SN825 SERIES
SCENA
SURFACE MOUNT

TYPE: _____	QUANTITY: _____	PROJECT: _____					
CATALOG NUMBER: _____							
MODEL	LED LIGHT SELECTION	CCT	VOLTAGE	FINISH	OPTION	OPTION	OPTION



ADA Compliant

1- Corrosion resistant diecast aluminum housing.
 2- Integrated standard 0-10V driver (dim to <10%).
 3- Precision LEDs with individual lenses for downlight asymmetric light.
 4- Clear tampered glass.
 5- Sealed enclosure with durable gaskets.
 6- All hardware in stainless steel.

SN825



MATERIALS

Scena is made of aluminum diecast offering exceptional precision and durability. The main housing is perfectly sealed with durable gaskets. The integrated LED light module and 0-10V driver are protected by a clear tempered glass. With a distinctive look and perceptible quality, Scena is designed for uniform lighting performance.

ELECTRICAL

DRIVER Standard driver is 0-10V dimming-ready (dims to <10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -30°C/-22°F to 60°C/140°F, over current and output short circuit protection.
LED Offered in 2700K, 3000K, 3500K & 4000K / 80CRI. Optional true amber LED for turtle sensitive areas. Wavelengths: 609nm to 620nm.

LIFETIME

60,000hrs $L_{70}B_{50}$ (based on LM-80 report for lumen maintenance).

FINISH

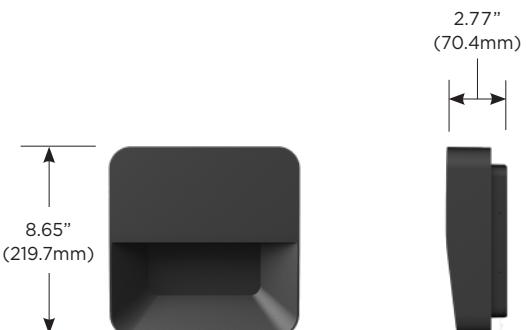
Five-stage preparation process includes preheating of cast aluminum parts for air extraction. Polyester powder coating is applied through an electrostatic process, and oven cured for long term finish.

CERTIFICATION

Certified and Approved as per CSA C22.2 No.: 250.0 standard and ANSI/UL 1598 standard, for wet location. Rated IP65/IK10. Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C. Lumen depreciation in accordance with IESNA LM80 standards.

MOUNTING

Maximum weight: 4.6 lbs (2.1 kg)
 Scena is designed for ease of access and installation. The mounting plate is designed to fit on a 4" (102mm) octagonal electrical box using 3.5" (89mm) C/C mounting holes.



SN825 SERIES

SCENA

LUMINAIRE SELECTION

1 MODEL	2 LED LIGHT SELECTION	3 CCT °K LED	4 VOLTAGE	5 FINISH																																					
 <input type="checkbox"/> SN825	WHITE LED SELECTION <table border="1"> <thead> <tr> <th>SUFFIX</th><th>DELIVERED LUMENS*</th><th>INPUT WATTS</th></tr> </thead> <tbody> <tr> <td><input type="checkbox"/> L1L5</td><td>553</td><td>12W</td></tr> <tr> <td><input type="checkbox"/> L1L8</td><td>817</td><td>19W</td></tr> </tbody> </table> <p>*4000K / 80CRI</p> AMBER LED LIGHT SELECTION - TURTLE FRIENDLY <table border="1"> <thead> <tr> <th>SUFFIX</th><th>DELIVERED LUMENS*</th><th>INPUT WATTS</th></tr> </thead> <tbody> <tr> <td><input type="checkbox"/> L1LK2A</td><td>221</td><td>7W</td></tr> </tbody> </table>	SUFFIX	DELIVERED LUMENS*	INPUT WATTS	<input type="checkbox"/> L1L5	553	12W	<input type="checkbox"/> L1L8	817	19W	SUFFIX	DELIVERED LUMENS*	INPUT WATTS	<input type="checkbox"/> L1LK2A	221	7W	<input type="checkbox"/> K27 2700K* <input type="checkbox"/> K30 3000K* <input type="checkbox"/> K35 3500K* <input type="checkbox"/> K40 4000K*	<input type="checkbox"/> 120V <input type="checkbox"/> 208V <input type="checkbox"/> 240V <input type="checkbox"/> 277V	STANDARD COLORS* <table border="1"> <tbody> <tr> <td><input type="checkbox"/> WHT</td><td>Snow white</td></tr> <tr> <td><input type="checkbox"/> BKT</td><td>Jet black</td></tr> <tr> <td><input type="checkbox"/> BZT</td><td>Bronze</td></tr> <tr> <td><input type="checkbox"/> MST</td><td>Matte silver</td></tr> <tr> <td><input type="checkbox"/> GRT</td><td>Titanium gray</td></tr> <tr> <td><input type="checkbox"/> DGT</td><td>Gun metal</td></tr> <tr> <td><input type="checkbox"/> CHT</td><td>Champagne</td></tr> <tr> <td><input type="checkbox"/> SGT</td><td>Steel gray</td></tr> <tr> <td><input type="checkbox"/> BGT</td><td>English cream</td></tr> </tbody> </table> OPTIONAL COLORS <table border="1"> <tbody> <tr> <td><input type="checkbox"/> CS</td><td>Custom color</td></tr> <tr> <td><input type="checkbox"/> RAL</td><td>RAL# color</td></tr> </tbody> </table>	<input type="checkbox"/> WHT	Snow white	<input type="checkbox"/> BKT	Jet black	<input type="checkbox"/> BZT	Bronze	<input type="checkbox"/> MST	Matte silver	<input type="checkbox"/> GRT	Titanium gray	<input type="checkbox"/> DGT	Gun metal	<input type="checkbox"/> CHT	Champagne	<input type="checkbox"/> SGT	Steel gray	<input type="checkbox"/> BGT	English cream	<input type="checkbox"/> CS	Custom color	<input type="checkbox"/> RAL	RAL# color
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<input type="checkbox"/> RAL	RAL# color																																								



For IDA certification compliance, luminaire must be ordered with 3000K or warmer.

OPTIONS

PHOTOCELL

PH Thermal button photocell mounted on top casted housing (as shown on image). Instant turn-on, standard 5-10 second turn-off time delay.

ENVIRONMENT

MG Marine grade paint¹
 NT Natatorium (only available in WHT and BKT)

MOUNTING BOX

SWK Surface wall or ceiling mounting option with 3/4" NPT conduit adaptor. (Conduit and adaptor by others)
 Supplied with 5x18AWG/36" lg. wiring (longer wires to be specified).

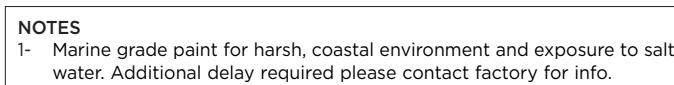
OPTION DETAILS



TRUE AMBER LED
 Optional amber LED for turtle sensitive areas.
 It protects local habitat and promotes sustainability.

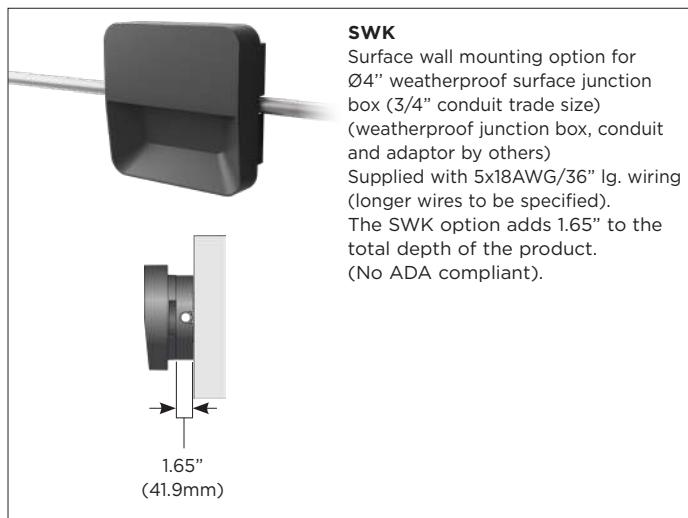


PH
 Thermal button photocell mounted on top casted housing. Instant turn-on, standard 5-10 second turn-off time delay.



NOTES

1- Marine grade paint for harsh, coastal environment and exposure to salt water. Additional delay required please contact factory for info.



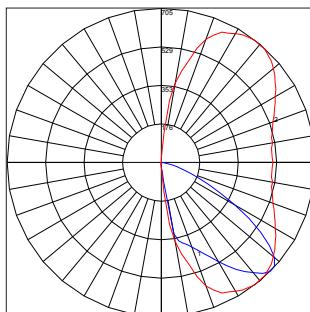
SWK
 Surface wall mounting option for Ø4" weatherproof surface junction box (3/4" conduit trade size) (weatherproof junction box, conduit and adaptor by others)
 Supplied with 5x18AWG/36" lg. wiring (longer wires to be specified).
 The SWK option adds 1.65" to the total depth of the product.
 (No ADA compliant).



SN825 SERIES

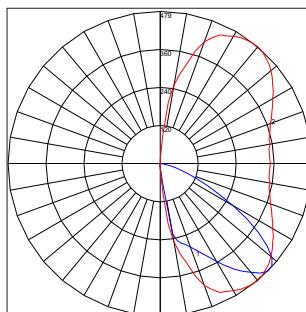
SCENA

TYPICAL PHOTOMETRY SUMMARY



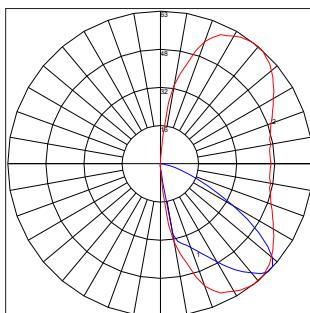
SN825-L1L8

Total Lms: 817 Lumens
 Total Input Watts: 18 W
 Efficacy: 44.2 Lumens/Watt
 CCT/CRI: 4000K/80
 Max. Candela: 705 @ 52.5°H/45°V
 BUG: BO-U0-G0¹



SN825-L1L5

Total Lms: 553 Lumens
 Total Input Watts: 12.2 W
 Efficacy: 45.5 Lumens/Watt
 CCT/CRI: 4000K/80
 Max. Candela: 479.4 @ 52.5°H/45°V
 BUG: BO-U0-G0¹



SN825-L1LK2A

Total Lms: 221 Lumens
 Total Input Watts: 6.8 W
 Efficacy: 32.5 Lumens/Watt
 CCT/CRI: Not applicable
 Max. Candela: 190.35 @ 52.5°H/45°V
 BUG: BO-U0-G0¹

LUMEN CONVERSION FACTOR (LCF)

CCT	LCF	CRI
2700K	0.91	80
3000K	0.92	80
3500K	0.96	80
4000K	1.00	80

All Photometry shown use the Standard 80CRI 4000K LEDs.
 Please visit our web site www.luminis.com for complete I.E.S. formatted download data

NOTES

1- Tested with Jet Black paint (BKT)



Image Spot®



Brilliant Imaging.

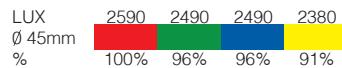
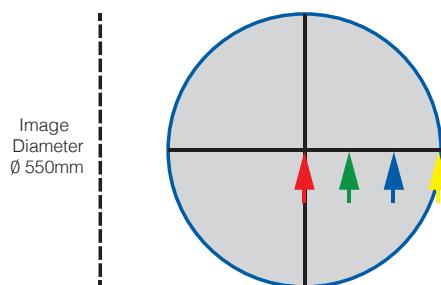
Crystal clear optics allow you to project vivid images and messaging up to 40 ft. (12m) away! Using a mere 45W of power, the Image Spot LED projector packs an amazing amount of light output from a versatile and compact design.

The cool white or warm white LEDs ensure bright imaging in virtually any environment. An available filter kit allows the Image Spot to be used to illuminate subjects in museums, themed entertainment and hospitality venues.

Project:	Type:
Quantity:	Location:



Superior Uniformity Across Entire Field



KEY FEATURES

- 40W LED array with 10°, 19°, 25° or 30° beam optics provide superb image uniformity and fringe-free shadows
- IP40 rating for indoor use or IP65 rating for outdoor use HT variant for high ambient temperature environments
- Accepts Rosco Image Spot Gobos and Permacolor Dichroic Glass Color Filters
- Available OPTI-FLECS filter packs for beam diffusion
- Accepts universal line voltage input allowing operation anywhere around the globe
- DMX512 compatibility provides flicker-free dimming throughout the range: 100% ~ 0%
- 0-10V, DMX, DALI & Push to DIM dimming options
- Passive cooling means operation is completely silent
- Standard Color Options: Black, White and Silver

Image Spot®



SPECIFICATIONS

Input Voltage:	100-277VAC (V1:100-240VAC)
Power Consumption:	45 Watts at maximum output
Color Temp. Options:	5500K or 3000K or UV
CRI:	5500K Model: 80 3000K Model: 95
Output:	5500K Model: 1300 lumens 3000K Model: 750 lumens
Lumen Maintenance:	50,000 hours at 45°C (LM-79-08)
Power Connection:	6.5 ft (2m) insulated standard (IP40) or hybrid data/mains cable (IP65) (Connectors not included.)
Data:	DMX512, 0-10V, DALI, Push DIM Options RJ45 Connector (IP40) In and thru, hybrid power & data cable (IP65)
DMX Addressing:	RDM functionality available for addressing
Dimensions:	Image Spot (including yoke): 7.8 in x 4.8 in x 6.8 in (198mm x 123mm x 172mm) Image Spot HT (including yoke): 9.3 in x 4.8 in x 6.8 in (236mm x 123mm x 172mm)
Weight:	Image Spot: 5.5 lbs (2.5 kg) Image Spot HT: 5.9 lbs (2.7 kg)
Operating Temp.:	Image Spot: -13° to 104° F (-25° to 40° C) Image Spot HT: -13° to 122° F (-25° to 50° C)
Humidity:	0 - 95% non-condensing
Housing:	Anodized Aluminum Extrusion
Approvals:	ETL / UL Standards #62368-1 and #60950-22 cETL / CSA C22.2 #62368-1 and #6095-22 CE IP40 Rated (indoor use) or IP65 Rated (outdoor use)

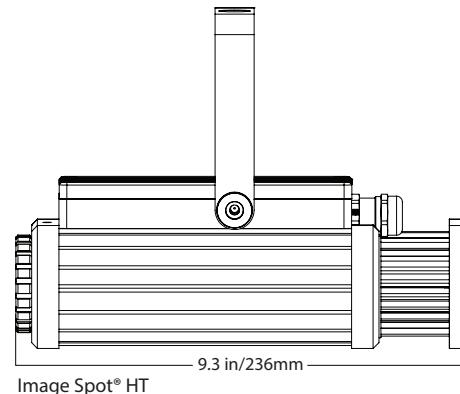
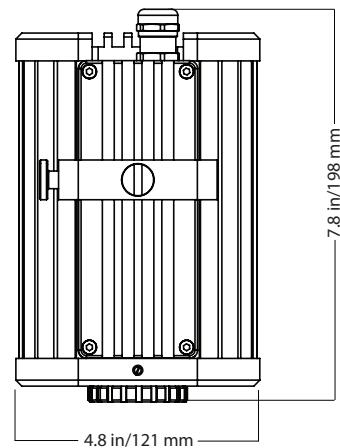
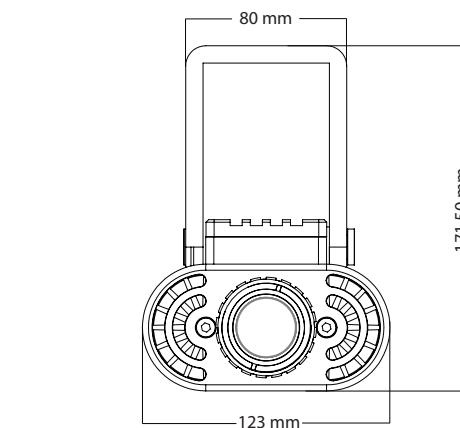
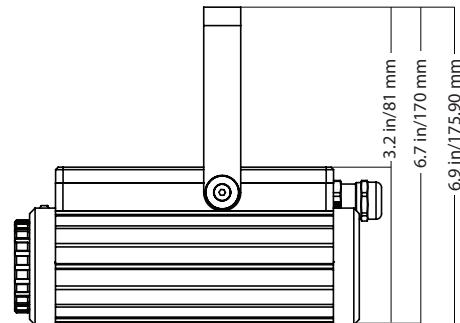


Image Spot®



SPECIFICATION ORDER CODES

UNIT	CCT	Finish	Data Transfer	Mounting	Lens	Optional Accessory
Image Spot ST	3 - 3000K	B - Black	A - DMX/RDM, RJ45 (IP40 Only)	F - Full Yoke	T - 10 degree	S - Snoot
Image Spot IP	5 - 5500K	W - White	B - DALI, RJ45 (IP40 Only)	Y - Track Mount	1 - 19 degree	N - N/A
Image Spot HT	U - UV	S - Silver	C - Push DIM, RJ45 (IP40 Only)	L - Floor Mount	2 - 25 degree	
	O - Custom*	C - Custom RAL	0 - 0/10V, No Connector	W - Wall Mount	3 - 30 degree	
			1 - DMX/RDM, No Connector	C - Ceiling Mount	N - No Lens	
			2 - DALI, No Connector	P - Pole Mount		
			3 - Push to DIM, No Connector	N - N/A		

Example:

ImageSpot ST — 3 — B — 1 — F — T — N

Ie. ImageSpot ST-3B1FTN =

Image Spot Standard, 3000K CCT, Black, DMX/RDM, No Connector, Full Yoke, 10 degree Lens, with no additional accessories.

*Custom color temperature available with minimum order quantity, price difference and longer lead time. For more information please contact Project.Management@Rosco.com

Name: _____

Date: _____

Company Name: _____

Project: _____

Image Spot®



Image Spot® Accessories

Item Code	Description
296 00001 0013	Image Spot OPTI-FLECS Filter Pack
296 00001 0052	Image Spot Lens Cover Kit
296 00001 0017	Image Spot USB to RJ45 Programming Cable
296 00001 0011	Image Spot USB to RS485 Programming Cable
296 00001 0012	Image Spot Safety Cable, 3ft (1m)
296 00000 5001	Rosco Pole Mount Accessory - Black
296 00000 5002	Rosco Pole Mount Accessory - White
296 00000 5003	24" Stainless Steel Strap Rosco Pole Mount Kit - 3-Pack
296 00000 5004	Rosco Wall Mount Accessory - Black
296 00000 5005	Rosco Wall Mount Accessory - White

Image Spot Gobos & Permacolor Filters

For optimum image quality and performance, use Rosco Image Spot Gobos and Permacolor Filters, which feature custom bezels that enable a secure fit inside the Image Spot gobo cassette.

Image Spot® Gobos	
Item Code	Description
<i>Standard Gobos</i>	
XXXXX-SPOT	Image Spot Standard Gobo XXXXX = The five digit standard gobo number
<i>Custom Gobos</i>	
250 72101 SPOT	Image Spot Custom Steel Gobo
260 CUSBW OSPO	Image Spot Custom B&W Glass Gobo
260 CUS1C OSPO	Image Spot Custom One-Color Glass Gobo
260 CUS2C OSPO	Image Spot Custom Two-Color Glass Gobo
260 CUSMC OSPO	Image Spot Custom Multi-Color Glass Gobo

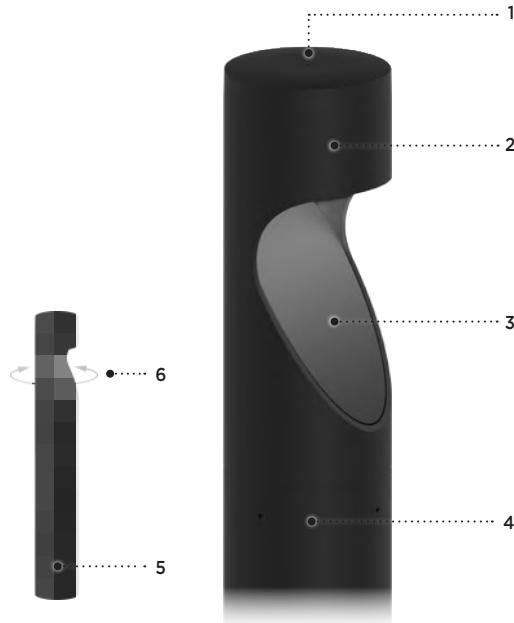
Permacolor™ Dichroic Filters	
Item Code	Description
1203 XXXX SPOT	Image Spot Permacolor Dichroic Glass Filter XXXX = the four digit color number (includes bezel to fit inside gobo cassette)



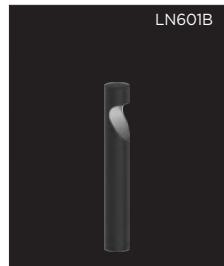
LN601B/LN602B SERIES

INLINE
BOLLARD

TYPE: _____	QUANTITY: _____	PROJECT: _____						
CATALOG NUMBER: _____	MODEL	LED SELECTION	CCT	DISTRIBUTION	BOLLARD HEIGHT	VOLTAGE	FINISH	OPTION



- 1- Heavy cast aluminum top cover.
- 2- Optical system assembly.
- 3- Access door to rotation mechanism.
- 4- Ø6" (152mm) extruded aluminum body.
- 5- Cast aluminum internal mounting base.
- 6- Modules rotate 355° and are field-adjustable (shipped facing same direction).

**MATERIALS**

Inline is made of corrosion resistant 356 heavy duty cast aluminum alloy with a copper (CU) content of less than 0.1% with stainless steel hardware.

ELECTRICAL**DRIVER**

Standard driver is 0-10V dimming-ready (dims to 10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperatures of -40°C/-40°F to 55°C/131°F, output over voltage protection, output over current protection, output short circuit protection with auto-recovery.

LED

2700K/3000K/3500K/4000K CCT with 80 CRI. Optional true amber LED for turtle sensitive areas. Wavelengths: 585nm to 597nm.

LIFE

60,000hrs L₇₀B₅₀ (based on IESNA TM-21 Test Method and LM-80 data). Up to 70,000hrs L₇₀B₅₀ (calculated projection from LM-80 data).

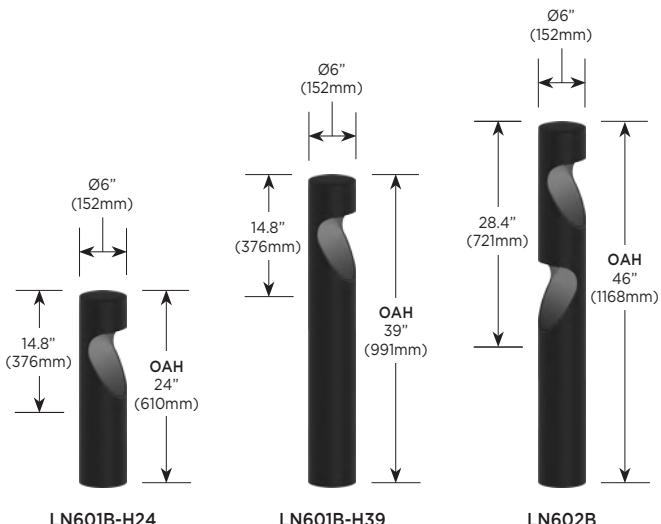
FINISH

Five-stage preparation process including preheating of cast aluminum parts for air extraction, and an environmentally friendly alloy sealant. Polyester powder coating is applied through an electrostatic process and oven cured for long term finish.

MOUNTING

Mounts with a set of 4 x 1/2"-13 x 18" lg. galvanized anchor bolts.

See page 3 for mounting details.



LN601B/LN602B SERIES

INLINE

LUMINAIRE SELECTION

MODEL ¹	LED LIGHT SELECTION			CCT/CRI	DISTRIBUTION	BOLLARD HEIGHT	VOLTAGE	FINISH ²	
	SUFFIX	DELIVERED LUMENS*	INPUT WATTS						
	<input type="checkbox"/> L1L10	1116	11	<input type="checkbox"/> K27 2700K CCT 80 CRI (LCF: 0.94)	<input type="checkbox"/> R15 Narrow optics 15° (LCF: 0.94)	<input type="checkbox"/> H24 24" OAH	<input type="checkbox"/> 120V	<input type="checkbox"/> WHT Snow white	
	<input type="checkbox"/> L1L20	2143	23	<input type="checkbox"/> K30 3000K CCT 80 CRI (LCF: 0.97)	<input type="checkbox"/> R30 Flood optics 30°	<input type="checkbox"/> H39 39" OAH	<input type="checkbox"/> 208V	<input type="checkbox"/> BKT Jet black	
	<input type="checkbox"/> L1L30	3156	36	<input type="checkbox"/> K35 3500K CCT 80 CRI (LCF: 0.99)	<input type="checkbox"/> R55 Wide flood optics 55° (LCF: 0.97)	For LN601B only	<input type="checkbox"/> 240V	<input type="checkbox"/> BZT Bronze	
	<input type="checkbox"/> L1L40	4191	53	<input type="checkbox"/> K40 4000K CCT 80 CRI	<input type="checkbox"/> TYP3 TYPE III, Short (LCF: 0.76)		<input type="checkbox"/> 277V	<input type="checkbox"/> MST Matte silver	
	LCF: Lumen conversion factor			LCF: Lumen conversion factor					
	Amber LED:								
	<input type="checkbox"/> L1LK2A	229	11						
<input type="checkbox"/> LN601B									
	<input type="checkbox"/> L2L10	2232	22						
	<input type="checkbox"/> L2L20	4286	46						
	<input type="checkbox"/> L2L30	6312	72						
	<input type="checkbox"/> L2L40	8382	106						
	Amber LED:								
	<input type="checkbox"/> L2LK2A	458	22						
<input type="checkbox"/> LN602B	*4000K / 80 CRI / R30								

OPTIONS

ELECTRICAL		FAUX WOOD COLORS ^{2,4}	
<input type="checkbox"/> FS	Fuse	<input type="checkbox"/> ADG	American douglas
<input type="checkbox"/> SP	10kV surge protector	<input type="checkbox"/> BRC	Birch
<input type="checkbox"/> REML	Remote emergency battery backup for LED (624 lm/90 min.) Remote mount 50ft - 12" (305mm) square enclosure with access cover 120/277V ⁶ California Title 20 Compliant	<input type="checkbox"/> CHN	Chestnut
		<input type="checkbox"/> CRY	Cherry
		<input type="checkbox"/> KNP	Knotty pine
		<input type="checkbox"/> MPL	Maple
		<input type="checkbox"/> OFL	Oak
		<input type="checkbox"/> RSW	Rosewood
		<input type="checkbox"/> TEK	Teak
		<input type="checkbox"/> WLN	Walnut

ENVIRONMENT		ACCESSORIES	
<input type="checkbox"/> MG	Marine grade paint ³	<input type="checkbox"/> GFI	Ground fault circuit interruption flush receptacle (LN601B-H39 only) ⁵
		<input type="checkbox"/> CGF	Ground fault circuit interruption with clear in-us cover (LN601B-H39 only) ⁵

NOTES

- 1- For LN602B, all light modules are factory-assembled in the same direction. They can be rotated in the field.
- 2- For any standard finish, access door will be black color to reduce glare and minimize uplight. Different access door color available on demand. For faux wood finish, access door will have same faux wood finish. (See page 3 for example.)
- 3- Marine grade paint for harsh, coastal environment and exposure to salt water. Additional delay required, please contact factory for info.
- 4- Faux wood finish not applied to fixture top cap, housing and accessories. Not compatible with marine grade finish.
- 5- GFI and CGF options are installed 15" above grade. GFI cover protrudes by 1.75" (45mm). CGF cover protrudes by 3.75" (95mm). LN601B-H39 only, 120V required for GFI or CGF.
- 6- For LN602B, only the bottom light module will light up during emergency mode.



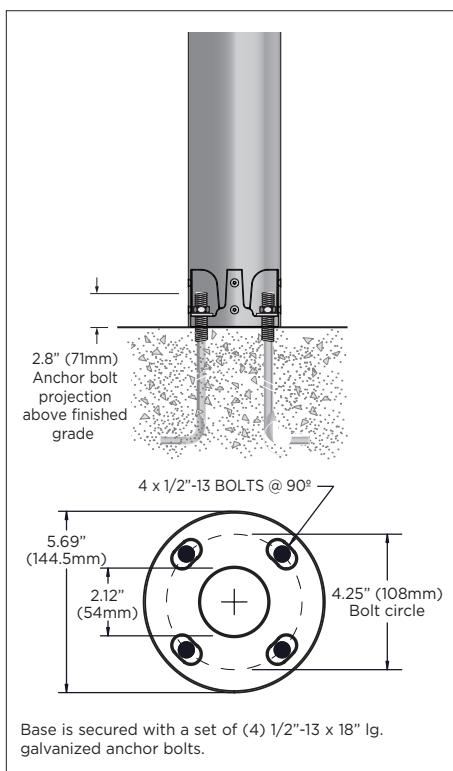
For IDA certification compliance, luminaire must be ordered with 3000K or warmer.

LUMINIS®

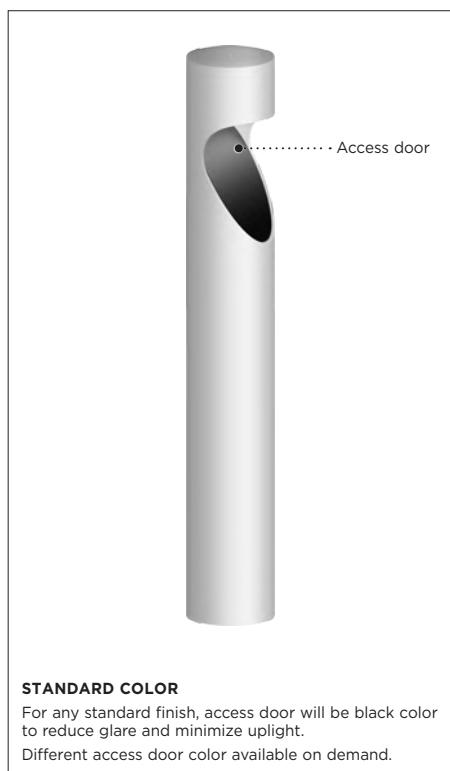
LN601B/LN602B SERIES

INLINE

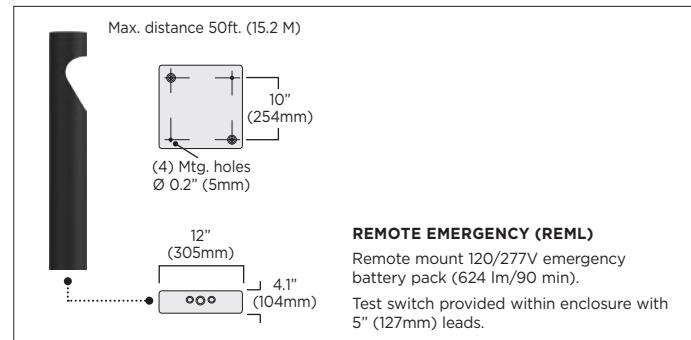
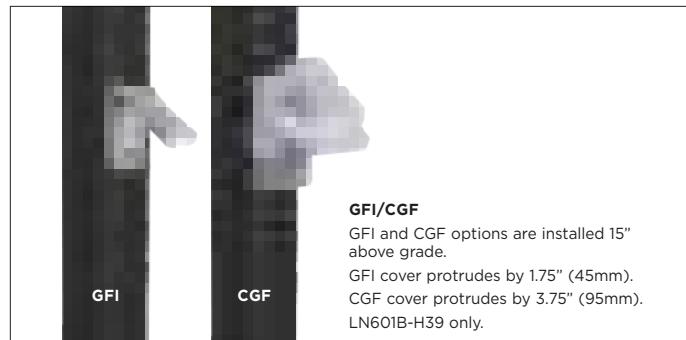
MOUNTING INFORMATION



FINISH DETAILS



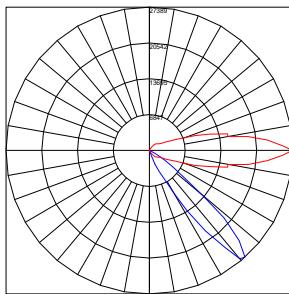
ELECTRICAL DETAILS



LN601B/LN602B SERIES

INLINE

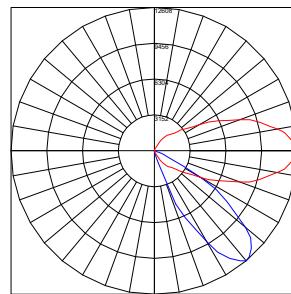
TYPICAL PHOTOMETRY SUMMARY



Descriptive information

LN601B-L1L40-R15

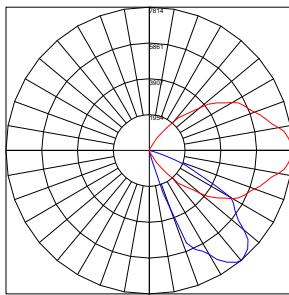
Total Lms: 3939 lumens
 Total input watts: 53 W
 Efficacy: 74 Lumens/Watt
 CCT/CRI: 4000K/80CRI
 Maximum candela: 27389 @ 0°H/42.5°V
 BUG: BO-U1-G0



Descriptive information

LN601B-L1L40-R30

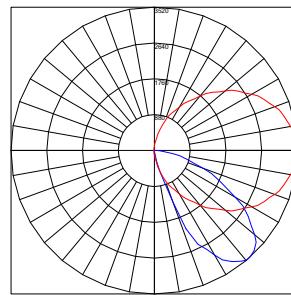
Total Lms: 4191 lumens
 Total input watts: 53 W
 Efficacy: 79 Lumens/Watt
 CCT/CRI: 4000K/80CRI
 Maximum candela: 12608 @ 0°H/40°V
 BUG: BO-U1-G0



Descriptive information

LN601B-L1L40-R55

Total Lms: 4065 lumens
 Total input watts: 53 W
 Efficacy: 77 Lumens/Watt
 CCT/CRI: 4000K/80CRI
 Maximum candela: 7814 @ 0°H/40°V
 BUG: BO-U1-G0



Descriptive information

LN601B-L1L40-TYP3

Total Lms: 3185 lumens
 Total input watts: 53 W
 Efficacy: 60 Lumens/Watt
 CCT/CRI: 4000K/80CRI
 Maximum candela: 3520 @ 0°H/42.5°V
 BUG: BO-U1-G1

Please visit our web site www.luminis.com for complete I.E.S. formatted download data.

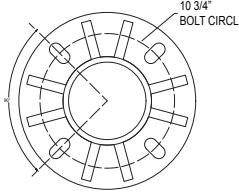
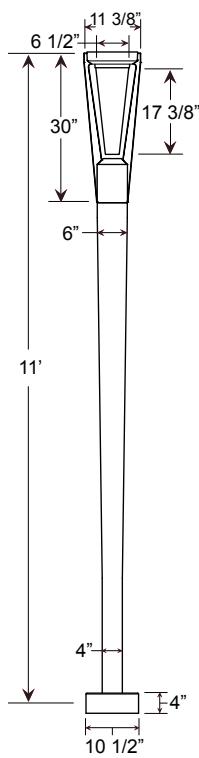


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 260 Labrosse, Pointe-Claire (QC) Canada H9R 5L5

LUMINIS.COM

Luminaires may be altered for design improvement without prior notice.

HARTRANFT LIGHTING DESIGN



EPA: 0.97 w/Flat Lens
1.50 w/Conical Drop Lens

LC0122 LED

Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

Specifications

IP65**Material:**

All parts are durable 356 cast aluminum and high strength aluminum extrusion and heavy duty spinnings. All mounting hardware shall be stainless steel or zinc plated steel.

Column:

6-inch diameter, aluminum, reverse tapered column.
Wall thickness is 0.187"

Lens:

Flat, opal white 0.125" thick,
polycarbonate lens or conical, opal
white, acrylic lens available.

Mounting:

Standard anchor bolts are 3/4"x18"x4".
Bolts, nuts and washers shall be hot
dipped galvanized steel.

Bolt pattern diameter is 10 3/4".

Drivers:

Universal voltage 120-277 is standard.
0-10V, TRIAC and ELV dimming to 1%
is standard for all LED array sources.
Dual channel, 0-10V dimming to 1% is
standard for dynamic white sources.

See page 2 table for more LED engine
and driver specifications.

Electrical:
20kA max/10kA nominal surge
protection device is standard.

Certifications:
UL Listed for outdoor, wet location.
IP65 rated; UL1598 Standard for
Safety for Lighting Luminaires.

Finish:
A polyester powder coat high quality
finish is electro-statically applied and
baked at 430° for exceptional durability
and color retention. Products undergo
an intensive five-step cleansing and
pretreatment process for maximum
paint adhesion.

Marine grade finish provides superior
salt, humidity and UV protection. This
coating withstands up to 3000 hours
of continuous salt spray, comes with
a 5-year warranty and is available in
either a textured or gloss surface.

Modifications:
Consult factory for custom or modified
designs.

Catalog Logic

LC0122 10 WF A028LD7 T5 40K - EMG-LED06 - 72

Light Column Series Height Lens Light Source & Wattage Optics CCT Accessories Finish

Catalog Number

1 2 3 4 5 6 7

LC0122

1	HEIGHT
08	(8 feet)
09	(9 feet)
10	(10 feet)
11	(11 feet)
12	(12 feet)
13	(13 feet)
14	(14 feet)

2	LENS
WF	(Flat, opal white polycarbonate) Only LED Array Light Source
WC	(Conical, opal white acrylic) Only LED COB Light Source

3	LIGHT SOURCE & WATTAGES
A010LD2	(10w LED Array)*
A018LD4	(18w LED Array)*
A028LD7	(28w LED Array)*
C010LD2	(10w LED COB)**
C018LD4	(18w LED COB)**
C028LD7	(28w LED COB)**
*LED ARRAY - FR Flat Lens Only	
**LED COB - WC Conical Lens Only	

4	OPTICS
T5	(Type V)

5	COLOR TEMPERATURE (CCT)
LED Array & COB	
27K	(2700K)
30K	(3000K)
35K	(3500K)
40K	(4000K)

6	ACCESSORIES*
*IBOLT	(Eye Bolt)
*GFI15	(15 amp GFCI receptacle outlet)
*GFI20	(20 amp GFCI receptacle outlet)
*GFI-WPU	(20 amp GFCI receptacle w/weather proof in-use cover)
HLMSPC-06	(High-Low Motion Sensor/Photocell)
HLMSPC-10	(High-Low Motion Sensor/Photocell)
PC	(Button Photo Cell)
TLPC	(Twist Lock photo cell & receptacle)
TL5	(5-pin Twist Lock receptacle only)
TL7	(7-pin Twist Lock receptacle only)
EMG-LED06	(6w, LED Emergency Driver)
EMG-LED10	(10w, LED Emergency Driver)
EMG-LED16	(16w, LED Emergency Driver)
EMG-LED20	(20w, LED Emergency Driver)

*Accessory finish will match fixture finish.

FINISHES					
Standard Colors	Standard Grade	Marine Grade*	Standard Colors	Standard Grade	Marine Grade*
Aspen Green	10	10M	Architectural Bronze	51	51M
Cantaloupe	11	11M	Patina Verde	52	52M
Lilac	12	12M	Copper Clay	53	53M
Putty	13	13M	Silver	56	56M
Raw Unfinished	40	NA	Black Verde	61	61M
Black	41	41M	Painted Chrome	70	70M
Forest Green	42	42M	Painted Copper	71	71M
Bright Red	43	43M	Textured Black	72	72M
White	44	44M	Matte Black	73	73M
Bright Blue	45	45M	Textured Architectural Bronze	76	76M
Sunny Yellow	46	46M	Textured White	77	77M
Aqua Green	47	47M	Textured Silver	78	78M
Galvanized	49	NA		Premium Grade*	Marine Grade*
Navy	50	50M	Carbon Graphite	96	96M

Consult Factory for additional paint charges and availability.

Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

LED ARRAY**PERFORMANCE WITH FLAT OPAL WHITE LENS**

LED System Wattage	CCT	Type V				Drive Current	
		Delivered Lumens	Lumens Per Watt	B	U		
10W	2700K	921	92	1	3	1	250mA
	3000K	907	91	1	3	1	250mA
	3500K	924	92	1	3	1	250mA
	4000K	1031	103	1	3	1	250mA
18W	2700K	1659	92	1	3	1	450mA
	3000K	1633	91	1	3	1	450mA
	3500K	1662	92	1	3	1	450mA
	4000K	1855	103	1	3	1	450mA
28W	2700K	2535	92	1	3	1	700mA
	3000K	2495	91	1	3	1	700mA
	3500K	2541	92	1	3	1	700mA
	4000K	2835	103	1	3	1	700mA

LED SPECIFICATION

- 12 High-Power LED's, CREE XP-G3
- Color temp: 2700K, 3000K, 3500K and 4000K
- CRI: 2700K, 3000K and 3500K are 80CRI and 4000K is 70CRI
- Distribution: Type V
- PMMA Optical Lens
- RoHS Compliant

DRIVER SPECIFICATION

- Input Voltage: 120-277 Universal Voltage; (50/60Hz)
- Dimmable down to 1%
- 0-10V, TRIAC and ELV dimming protocols are standard
- Drive Current: 250mA, 450mA and 700mA
- Driver Efficiency > 80%; Power Factor > 0.90
- Operating temperatures: -30°C to 70°C
- IP64
- LED driver integral surge protection, ANSI C62.41 Category A
- UL, cUL, CE
- Lifetime: 50,000 hours

LED COB**PERFORMANCE WITH CONICAL OPAL WHITE LENS**

LED System Wattage	CCT	Type V				Drive Current	
		Delivered Lumens	Lumens Per Watt	B	U		
10W	2700K	955	96	0	3	1	250mA
	3000K	955	96	0	3	1	250mA
	3500K	955	96	0	3	1	250mA
	4000K	955	96	0	3	1	250mA
18W	2700K	1720	96	1	4	1	450mA
	3000K	1720	96	1	4	1	450mA
	3500K	1720	96	1	4	1	450mA
	4000K	1720	96	1	4	1	450mA
28W	2700K	2717	96	1	4	2	700mA
	3000K	2717	96	1	4	2	700mA
	3500K	2717	96	1	4	2	700mA
	4000K	2717	96	1	4	2	700mA

LED SPECIFICATION

- High Power LED COB, Cree CXB1820
- Color temp: 2700K, 3000K, 3500K and 4000K
- CRI: 80
- Distribution: Type V

DRIVER SPECIFICATION

- Input Voltage: 120-277 Universal Voltage; (50/60Hz)
- Dimmable down to 1%
- 0-10V, TRIAC and ELV dimming protocols are standard
- Drive Current: 250mA, 450mA and 700mA
- Driver Efficiency > 80%; Power Factor > 0.90
- Operating temperatures: -30°C to 70°C
- IP64
- LED driver integral surge protection, ANSI C62.41 Category A
- UL, cUL, CE
- Lifetime: 50,000 hours

SURGE SUPPRESSION

- A Surge Protection Device (SPD) is standard featuring a 20kA maximum discharge current 8/20μs Waveform (Imax); 10kA nominal discharge current 8/20μs Waveform (In) and thermally protected varistor technology.
- Meets IEEE C62.41.2 Location Category C High and US Dept of Energy MSSLC Model Spec.
- SPD shall be wired in series and will result in an open circuit during a fault state, resulting in the luminaire to turn off to protect system components thereby indicating SPD module replacement.

WARRANTYSee www.ANPlighting.com for complete fixture warranty.

LED warranty information

- 5 year limited warranty*

*Limited Warranty: A typical year is defined as 4380 hours of operation

Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

ACCESSORIES



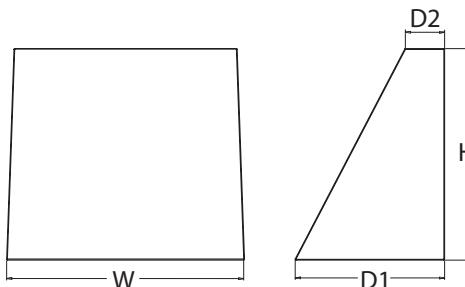
WDGE1 LED

Architectural Wall Sconce



Specifications

Depth (D1):	5.5"
Depth (D2):	1.5"
Height:	8"
Width:	9"
Weight: (without options)	9 lbs



Catalog Number

Notes

Type

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

Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

WDGE LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K)					
				P1	P2	P3	P4	P5	P6
WDGE1 LED	4W	--	--	1,200	2,000	--	--	--	--
WDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000	--
WDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	--	--	Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P1	27K 30K 35K 40K 50K ¹	80CRI 90CRI	VF VW Visual comfort forward throw Visual comfort wide	MVOLT 347 ²	Shipped included SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ⁵
	P2	27K 30K 35K 40K 50K ¹	80CRI 90CRI	VF VW Visual comfort forward throw Visual comfort wide	MVOLT 347 ²	Shipped separately AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry) Use when there is no junction box available.

Options	Finish
E4WH ³	DDBXD Dark bronze
PE ⁴	DBLXD Black
DS	DNAXD Natural aluminum
DMG	DWHXD White
BCE	DSSXD Sandstone
BAA	DDBTXD Textured dark bronze
	DBLBXD Textured black
	DNATXD Textured natural aluminum
	DWHGXD Textured white
	DSSTXD Textured sandstone

NOTES

1 50K not available in 90CRI.

2 347V not available with E4WH, DS or PE.

3 E4WH not available with PE or DS.

4 PE not available with DS.

5 Not qualified for DLC. Not available with E4WH.

Accessories

Ordered and shipped separately.

WDGEAWS DDBXD WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE1PBBW DDBXD U WDGE1 surface-mounted back box (specify finish)



COMMERCIAL OUTDOOR

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WDGE1 LED
Rev. 11/21/22

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1	10W	VF	1,120	112	0	0	0	1,161	116	0	0	0	1,194	119	0	0	0	1,227	123	0	0	0	1,235	123	0	0	0
		VW	1,122	112	0	0	0	1,163	116	0	0	0	1,196	120	0	0	0	1,229	123	0	0	0	1,237	124	0	0	0
P2	15W	VF	1,806	120	1	0	0	1,872	125	1	0	0	1,925	128	1	0	0	1,978	132	1	0	0	1,992	133	1	0	0
		VW	1,809	120	1	0	0	1,876	125	1	0	0	1,929	128	1	0	0	1,982	132	1	0	0	1,996	133	1	0	0

Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P1	10W	0.082	0.049	0.043	0.038	--
	13W	--	--	--	--	0.046
P2	15W	0.132	0.081	0.072	0.064	--
	18W	--	--	--	--	0.056

Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient	Lumen Multiplier	
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91

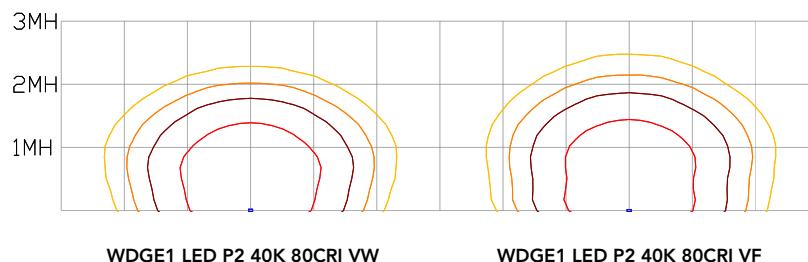
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage.
Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND

0.25 fc
0.5 fc
1.0 fc
3.0 fc

MH = 8ft
Grid = 8ft x 8ft



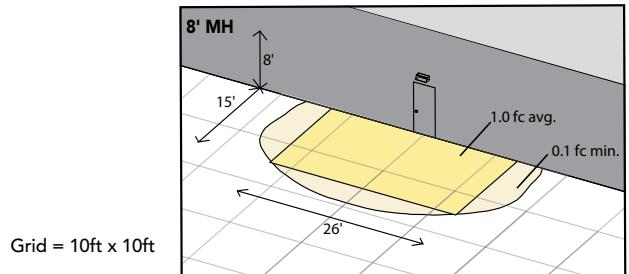
Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90 minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

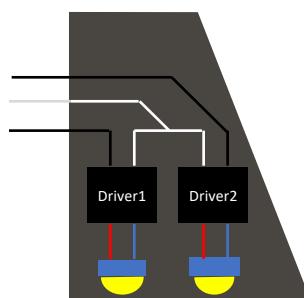
The example below shows illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E4WH and VF distribution.



Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark. This option is typically used with a back generator or inverter providing emergency power.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



Mounting, Options & Accessories

**E4WH – 4W Emergency Battery Backup**

D = 5.5"

H = 8"

W = 9"

**PBBW – Surface-Mounted Back Box****Use when there is no junction box available.**

D = 1.75"

H = 8"

W = 9"

**AWS – 3/8inch Architectural Wall Spacer**

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE

Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

BUY AMERICAN ACT

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

WARRANTY

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

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



EQ111 LED

Weight: 17.1 lbs
EPA: 0.53

Catalog Logic							
EQ111	1	E039LD	T5	40K	PC	WM1211	WM
Luminaire Series	Post Mount	Light Source & Wattage	Optics	CCT	Accessories	Optional Mounting Source	Fitter Mounting

Catalog Number	1	2	3	4	5	6	7	8
EQ111	1							

1	Fixture Orientation
1 Post	See page 3 for fixture to pole transition.

2	Light Source & Wattages
E030LD	(30w Light Guide LED)
E039LD	(39w Light Guide LED)
E046LD	(46w Light Guide LED)

3	OPTICS
T2	(Type II)
T3	(Type III)
T4	(Type IV)
T5	(Type V)

4	Color Temperature (CCT)
27K	(2700K)
30K	(3000K)
35K	(3500K)
40K	(4000K)

5	ACCESSORIES
HSS150-1	(150° House Side Shield)
HLMSPC-FM	(Integral high-low motion sensor plus photocell) See page 2 for specifications.
HLMSPC-06	(High-Low Motion Sensor/Photocell; 15° - 30° Sensor Mounting Height)
HLMSPC-10	(High-Low Motion Sensor/Photocell; 8° - 15° Sensor Mounting Height)
PC	(Button Photo Cell)
TLPC	(Twist Lock photo cell & receptacle)
TL5	(5-pin Twist Lock receptacle only)
TL7	(7-pin Twist Lock receptacle only)

6	OPTIONAL POST/WALL MOUNTS
PA1211	(Select TN3 in Box 7)
PA1221	(Select TN3 in Box 7)
WM1211	(Select WM in Box 7)
WM1221	(Select WM in Box 7)

Project: _____
Fixture Type: _____ Quantity: _____
Customer: _____



Specifications

Material:
All parts are durable 356 cast aluminum and heavy duty spun aluminum.
All hardware provided shall be stainless steel or zinc plated steel.

Lens:
Light Guide LED Panels feature a high transparency, dot matrix PMMA light guide with an optical efficiency up to 76%.

Fixture Mounting:
Post Top: Standard Flush Mount Adapter System mounts to pole (0.120" - 0.188" wall) with no visible hardware.
Tenon mount for 3" or 4" poles is optional. See page 3 for fixture to pole transition.

Wall Mount: Tenon mount attached with six (6) 5/16-18 set screws.

Drivers:
Universal voltage 120-277 is standard. 0-10V dimming to 10% is standard for Light Guide LED.

See page 2 table for more LED engine and driver specifications.

Electrical:
20kA max/10kA nominal surge protection device is standard.

Approximately 12" of pull wire extends from luminaire. Additional pull wire provided for post mount arms and wall mounts.

Finish:
A polyester powder coat high quality finish is electro-statically applied and baked at 430° for exceptional durability and color retention. Products undergo an intensive five-step cleansing and pretreatment process for maximum paint adhesion.

Marine grade finish provides superior salt, humidity and UV protection. This coating withstands up to 3000 hours of continuous salt spray, comes with a 5-year warranty and is available in either a textured or gloss surface.

Modifications:
Consult factory for custom or modified designs.

7 FITTER MOUNTING (Must Select One)

See page 4 for fixture to pole transition

FM3	(Flush mount adapter system for 3" OD Pole)
FM4	(Flush mount adapter system for 4" OD Pole)
TN3	(Tenon Mount for 3" OD Pole or Post Arms)
TN4	(Tenon Mount for 4" OD Pole or Post Arms)
WM	(Wall Mount Fitter)

8 FINISHES					
*Premium and Marine Grade Finish have additional charges		Standard Colors		Standard Colors	
		Standard Grade	Marine Grade*	Standard Grade	Marine Grade*
Aspen Green	10	10M	Architectural Bronze	51	51M
Cantaloupe	11	11M	Patina Verde	52	52M
Lilac	12	12M	Copper Clay	53	53M
Putty	13	13M	Silver	56	56M
Raw Unfinished	40	NA	Black Verde	61	61M
Black	41	41M	Painted Chrome	70	70M
Forest Green	42	42M	Painted Copper	71	71M
Bright Red	43	43M	Textured Black	72	72M
White	44	44M	Matte Black	73	73M
Bright Blue	45	45M	Textured Architectural Bronze	76	76M
Sunny Yellow	46	46M	Textured White	77	77M
Aqua Green	47	47M	Textured Silver	78	78M
Galvanized	49	NA	PREMIUM FINISH	Premium Grade*	Marine Grade*
Navy	50	50M	Carbon Graphite	96	96M

*Consult Factory for additional paint charges and availability.

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1-800-548-3227
ANPlighting.com

Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

LIGHT GUIDE

PERFORMANCE																				Drive Current				Nominal System			
LED Wattage	CCT	CRI	Type II					Type III					Type IV					Type V					Nominal System				
			Delivered Lumens	Lumens Per Watt	B	U	G	Delivered Lumens	Lumens Per Watt	B	U	G	Delivered Lumens	Lumens Per Watt	B	U	G	Delivered Lumens	Lumens Per Watt	B	U	G	Type II	Type III	Type IV	Type V	
30W	2700K	70	2966	99	1	0	1	3143	105	1	0	1	3346	112	1	0	1	3027	101	2	0	2	900mA	925mA	925mA	925mA	30w
	3000K	70	3064	102	1	0	1	3247	108	1	0	1	3457	115	1	0	1	3127	104	2	0	2	900mA	925mA	925mA	925mA	30w
	3500K	70	3113	104	1	0	1	3299	110	1	0	1	3512	117	1	0	1	3177	106	2	0	2	900mA	925mA	925mA	925mA	30w
	4000K	70	3211	107	1	0	1	3403	113	1	0	1	3623	121	1	0	1	3277	109	2	0	2	900mA	925mA	925mA	925mA	30w
39W	2700K	70	3855	99	2	0	2	4086	105	2	0	2	4350	112	2	0	2	3934	101	2	0	2	1150mA	1200mA	1200mA	1200mA	39w
	3000K	70	3983	102	2	0	2	4221	108	2	0	2	4494	115	2	0	2	4065	104	2	0	2	1150mA	1200mA	1200mA	1200mA	39w
	3500K	70	4047	104	2	0	2	4289	110	2	0	2	4566	117	2	0	2	4130	106	2	0	2	1150mA	1200mA	1200mA	1200mA	39w
	4000K	70	4174	107	2	0	2	4424	113	2	0	2	4710	121	2	0	2	4260	109	2	0	2	1150mA	1200mA	1200mA	1200mA	39w
46W	2700K	70	4513	98	2	0	2	4808	105	2	0	2	5177	113	2	0	2	4677	102	3	0	3	1360mA	1435mA	1435mA	1435mA	46w
	3000K	70	4662	101	2	0	2	4967	108	2	0	2	5348	115	2	0	2	4832	104	3	0	3	1360mA	1435mA	1435mA	1435mA	46w
	3500K	70	4737	103	2	0	2	5047	110	2	0	2	5433	118	2	0	2	4909	107	3	0	3	1360mA	1435mA	1435mA	1435mA	46w
	4000K	70	4886	107	2	0	2	5206	113	2	0	2	5604	122	2	0	2	5064	110	3	0	3	1360mA	1435mA	1435mA	1435mA	46w

LED SPECIFICATION

- Typical Efficacy is 98 - 122 lumens per watt
- Color temp: 2700K, 3000K, 3500K and 4000K
- CRI: 70
- Distribution: Type II, III, IV & V

SURGE SUPPRESSION

- A Surge Protection Device (SPD) is standard featuring a 20kA maximum discharge current 8/20μs Waveform (Imax); 10kA nominal discharge current 8/20μs Waveform (In) and thermally protected varistor technology.
- Meets IEEE C62.41.2 Location Category C High and US Dept of Energy MSSLC Model Spec.
- SPD shall be wired in series and will result in an open circuit during a fault state, resulting in the luminaire to turn off to protect system components thereby indicating SPD module replacement.

WARRANTY

See www.ANPlighting.com for complete fixture warranty.

LED warranty information

- 5 year limited warranty* on Light Guide engines
- 5 year limited warranty* on LED Drivers

*Limited Warranty: A typical year is defined as 4380 hours of operation. Failed defined as more than 10% of the total platform LED's not operating.

DRIVER SPECIFICATION

- 120 thru 277 Universal Voltage
- 50/60 Hz
- 0-10V dimming to 10%
- Minimum operating temperature: -30°C
- Drive Current: 900mA to 1435mA (model dependent)
- Driver Efficiency > 80%; Power Factor > 0.90
- Lifetime: 50,000 hours
- Integral Surge Protection in conformance to IP64
- UL, cUL, CE

HIGH-LOW MOTION SENSOR

- 0-10v configurable output set to 10%, 25% or 50% dimming
- Adjustable time delay
- 45° Detection
- Mounts Integral to fixture
- Lens available in white only
- Satisfies California Title 24

Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

POST MOUNTS - See Post Mount Section on Website for Specification Sheets and additional post mount arms.
Dimensions are Projection x Height.



PA1211 / 36" x 7"



PA1221 / 40" x 7"

WALL MOUNTS - See Wall Mount Section on Website for Specification Sheets and additional wall mount arms.
Dimensions are Projection x Height.



WM1211 / 10 3/8" x 8"



WM1221 / 10 3/8" x 9 1/4"

ACCESSORIES



HSS150-1

HSS150-FI1
(field installable)

HLMSPC-FM



HLMSPC-06 & HLMSPC-10



PC

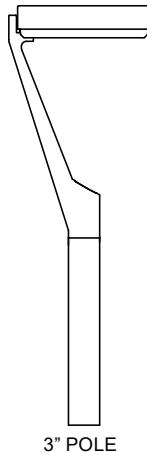


TLPC

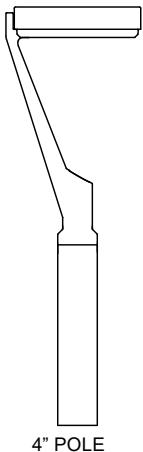


TL5 & TL7

Fixture to Pole Transition with Flush Mount Adapter

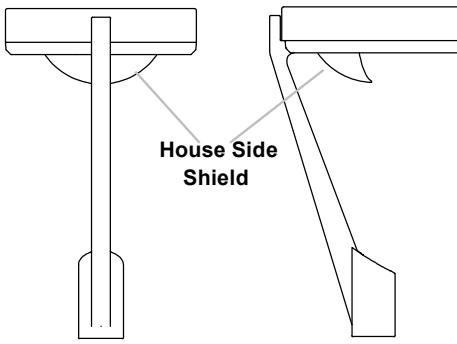


3" POLE



4" POLE

FIELD INSTALLABLE HOUSE SIDE SHIELD

House Side
Shield

09302021

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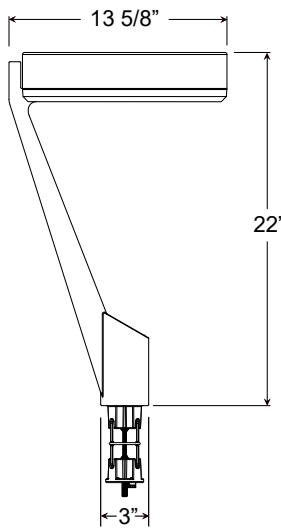
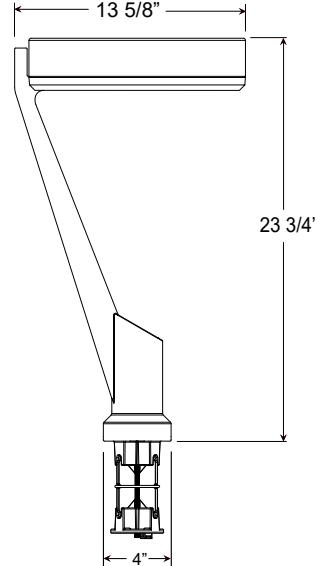
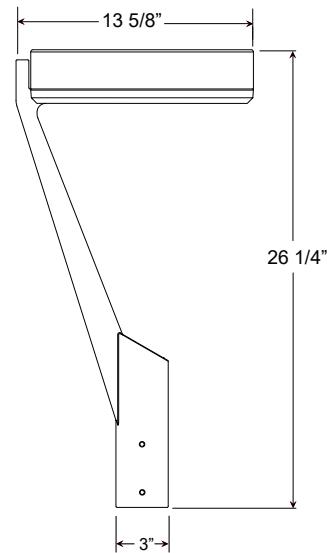
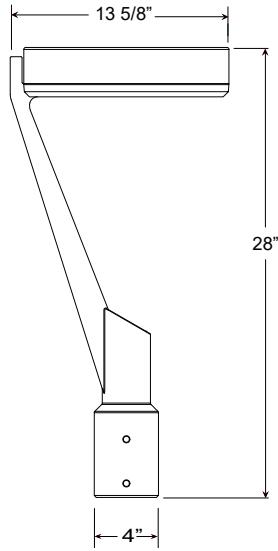
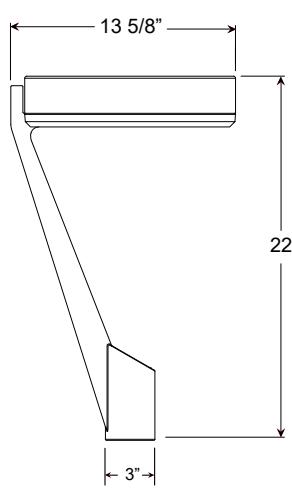
1-800-548-3227
ANPlighting.com

Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

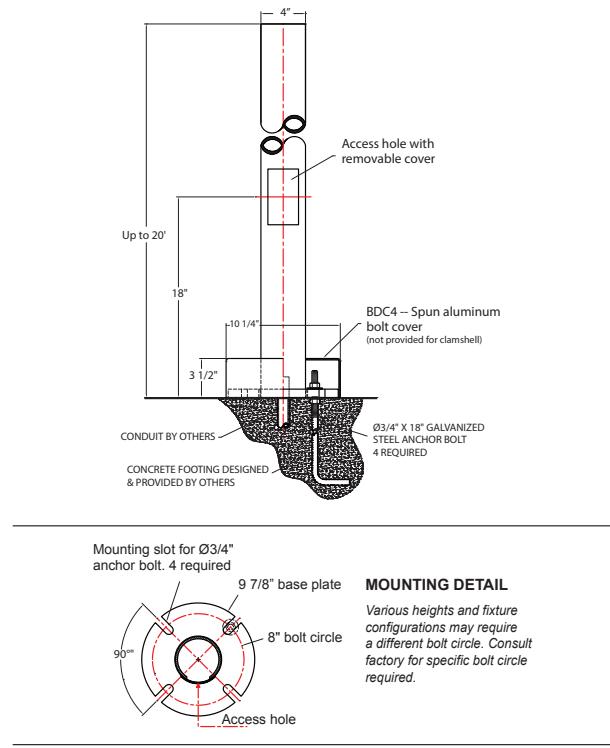
POST TOP CONFIGURATIONS

FM3FLUSH MOUNT ADAPTER
Mounts to 3" OD Pole**FM4**FLUSH MOUNT ADAPTER
Mounts to 4" OD Pole**TN3**TENON MOUNT
Mounts to 3" OD Pole Provided
With 2 3/8" x 4" H Tenon**TN4**TENON MOUNT
Mounts to 4" OD Pole Provided
With 2 3/8" x 4" H Tenon**WM**WALL MOUNT
Mounts to Wall Mount Arm Provided
With 2 3/8" x 3 1/4" H Tenon

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**MOUNTING DETAIL**

Various heights and fixture configurations may require a different bolt circle. Consult factory for specific bolt circle required.

Material

Aluminum pole bases and base plates shall be cast from 356 aluminum alloy. Shafts shall be extruded 6061-T6 aluminum. Available in 3", 4" or 5" diameter. Wall thickness 0.125" or 0.188" or 0.250.

Mounting

Four anchor bolts provided are $\frac{3}{4}$ "x18". Anchor bolts, nuts and washers are hot dipped galvanized steel. Spun aluminum bolt cover provided.

Access

All poles are provided with a hand access opening and cover. Hand hole cover is secured by two stainless steel machine screws. (Tamper-proof screws provided upon request).

Grounding

All poles are provided with an aluminum grounding lug integrated to inner wall of shaft, 180 degrees to hand hole. Grounding lug is drilled and tapped to accommodate $\frac{1}{4}$ -20 stainless steel machine screw.

Pole Height

Maximum pole height is 20-feet.

Accessories

Banner arms, ladder rests, signage, flag pole holder and GFI receptacles are optional.

Finish

A polyester powder coat high quality finish is electro-statically applied and baked at 430° for exceptional durability and color retention. Products undergo an intensive five-step cleansing and pretreatment process for maximum paint adhesion. Marine grade finish provides superior salt, humidity, and UV protection. This coating withstands up to 3000 hours of continuous salt spray, comes with a 5-year warranty and is available in either a textured or gloss surface.

Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____



IES
Illuminating
ENGINEERING SOCIETY

Catalog Logic

BD3S10.125 - BAA - CCS1902 - 41

Pole

Accessory

Clamshell

Finish

Catalog Number

1

2

3

4

See page 2 for more ordering info

1	Item Number	OD	Height	Wall	80 MPH	100 MPH
	BD3S3	3	3	0.125	10.10	6.20
	BD3S4	3	4	0.125	9.20	5.30
	BD3S5	3	5	0.125	8.00	4.70
	BD3S6	3	6	0.125	6.90	4.00
	BD3S7	3	7	0.125	6.00	3.60
	BD3S8	3	8	0.125	5.20	3.00
	BD3S9	3	9	0.125	4.50	2.60
	BD3S10	3	10	0.125	3.90	2.00
	BD3S11	3	11	0.125	3.40	1.70
	BD3S12	3	12	0.125	2.90	1.30
	BD4S3	4	3	0.125	27.60	17.50
	BD4S4	4	4	0.125	22.10	14.00
	BD4S5	4	5	0.125	19.90	12.60
	BD4S6	4	6	0.125	17.70	11.25
	BD4S7	4	7	0.125	16.00	10.10
	BD4S8	4	8	0.125	14.20	9.00
	BD4S9	4	9	0.125	12.00	7.60
	BD4S10	4	10	0.125	10.10	6.20
	BD4S11	4	11	0.125	8.80	5.30
	BD4S12	4	12	0.125	7.50	4.40
	BD4S13	4	13	0.125	6.00	3.50
	BD4S14	4	14	0.125	5.50	2.70
	BD4S5	4	5	0.188	33.10	21.00
	BD4S6	4	6	0.188	29.50	18.70
	BD4S7	4	7	0.188	27.60	16.80
	BD4S8	4	8	0.188	23.60	15.00
	BD4S9	4	9	0.188	20.00	12.60
	BD4S10	4	10	0.188	16.80	10.30
	BD4S11	4	11	0.188	14.60	8.80
	BD4S12	4	12	0.188	12.50	7.30
	BD4S13	4	13	0.188	10.00	5.80
	BD4S14	4	14	0.188	9.10	4.50
	BD4S15	4	15	0.188	8.10	3.60
	BD4S16	4	16	0.188	7.20	2.80
	BD5S6	5	6	0.125	30.00	19.30
	BD5S7	5	7	0.125	27.10	17.40
	BD5S8	5	8	0.125	24.00	15.50
	BD5S9	5	9	0.125	21.60	13.90
	BD5S10	5	10	0.125	19.20	12.40
	BD5S11	5	11	0.125	17.10	10.80
	BD5S12	5	12	0.125	15.00	9.30
	BD5S13	5	13	0.125	12.80	8.10
	BD5S14	5	14	0.125	11.50	7.00
	BD5S15	5	15	0.125	10.10	6.00
	BD5S16	5	16	0.125	8.80	5.10
	BD5S17	5	17	0.125	7.70	4.30
	BD5S18	5	18	0.125	6.60	3.60
	BD5S19	5	19	0.125	5.70	2.80
	BD5S20	5	20	0.125	4.70	2.20
	BD5S7	5	7	0.188	32.80	25.70
	BD5S8	5	8	0.188	29.30	22.80
	BD5S9	5	9	0.188	26.40	20.50
	BD5S10	5	10	0.188	23.50	18.20
	BD5S11	5	11	0.188	21.00	16.40
	BD5S12	5	12	0.188	18.60	14.60
	BD5S13	5	13	0.188	16.70	13.00
	BD5S14	5	14	0.188	14.80	11.40
	BD5S15	5	15	0.188	13.30	10.40
	BD5S16	5	16	0.188	11.80	9.00
	BD5S17	5	17	0.188	10.50	7.90
	BD5S18	5	18	0.188	9.20	6.80
	BD5S19	5	19	0.188	8.20	5.90
	BD5S20	5	20	0.188	7.20	5.00

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Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

Illuminating
ENGINEERING SOCIETY**2 ACCESSORIES**

GFI15	(15 amp GFCI receptacle outlet)	
GFI20	(20 amp GFCI receptacle outlet)	
GFI-WPU	(20 amp GFCI receptacle with weather proof in-use cover)	
BAA	(Cast Banner Arm A for 24" wide banner)	
BAB	(Cast Banner Arm B for 30" wide banner)	
BAC	(Cast Banner Arm C for 30" wide banner)	
LR1	(Cast Ladder Rest 1)	
LR3	(Cast Ladder Rest 3)	
LR4	(Cast Ladder Rest 4)	
LR5	(Cast Ladder Rest 5)	
SIGN A	(Cast Sign A: 30" x 9", 8 letters/numbers on one line; requires Banner Arm to hang)	
SIGN B	(Cast Sign B: 31" x 7", 12 letters/numbers on one line; requires Banner Arm to hang)	
SIGN C	(Cast Sign C: 27" x 11", two rows of 8 letters/numbers on each line, requires Banner Arm to hang)	
SIGN D	(Cast Sign D: 11" x 6 1/2", 4 letters/numbers on one line)	
SIGN E	(Cast Sign E: comes with pole clamp, 24 1/2" x 6", 9 letters/numbers on one line)	
FPH1	(Flag Pole Holder)	
TP	(Tamper Proof Screws)	
BDC	(Spun Aluminum Bolt cover)	
SBDC	(Split Bolt Cover)	

3 2-PIECE CLAMSHELLS

CCS0300	CCS1302	CCS2902
CCS0509	CCS1501	CCS2903
CCS0701	CCS1502	CCS5301
CCS0702	CCS1504	CCS5401
CCS0900	CCS1509	CCS5509
CCS1100	CCS1607	CCS6303
CCS1201	CCS1608	CCS6502
CCS1301	CCS1902	CCS9103

4 FINISHES

Standard Grade	Marine Grade	Standard Grade	Marine Grade		
40	NA	Raw Unfinished	53	100	Copper Clay
41	101	Black	56	109	Silver
42	102	Forest Green	61	106	Black Verde
43	114	Bright Red	70	118	Painted Chrome
44	107	White	71	105	Painted Copper
45	112	Bright Blue	72	108	Textured Black
46	123	Sunny Yellow	73	125	Matte Black
47	120	Aqua Green	76	121	Textured Architectural Bronze
49	NA	Galvanized	77	127	Textured White
50	111	Navy	78	124	Textured Silver
51	103	Architectural Bronze	10	130	Aspen Green
52	104	Patina Verde	11	131	Cantaloupe
12	133	Lilac	13	132	Putty

Consult factory for additional paint charges and availability

SABER MINI SUSPENSION 0.6" ROUND

24VDC 3W & 5W OUTDOOR/WET LOCATION, STATIC WHITE

ASSEMBLED IN AMERICA | US PATENT PENDING



DESCRIPTION

Visually stimulating and housed within our proprietary optical silicone lens, the Saber Mini Suspension is Tension hung offering flexible installation options, and conceptual yet functional design. The suspension bends Up and Down giving it the unique ability to traverse open spaces wall to wall, wall to ceiling, and floor to ceiling. The 0.6" wide round lens, offers superior color quality and performance while creating uniform illumination without pixelation, using cutting edge remote phosphor technology. Offered in multiple, dimmable Static White Color Temperatures. Saber Mini is an IP66 rated wet location system featuring watertight barrel connections. System includes a pair of turnbuckles and aircraft cable. Remote power Supplies and Canopies sold separately. Includes a 5-year pro-rated warranty. Patent Pending. For custom designs and quotes, email our design team: design@PureEdgeLighting.com.

LUMEN PERFORMANCE at 3000K 5W PER FOOT

(Refer to page 2 for full lumen data)

LUMEN OUTPUT	354 lm/ft
EFFICIENCY	80 lm/watt
CRI	95
R9	59
BEAM ANGLE	160°
CCT TOLERANCE	+/- 30CCT

SPECIFICATIONS

DIMENSIONS	Height: 0.49" Width 0.60"
INPUT	120/277V
POWER SUPPLIES	Remote 24VDC
POWER CONSUMPTION	3.3 or 4.4 watts per foot
INCREMENTS	1'
MAX LENGTH	3W-Up to 60' with power feeds at both ends, 30', with one feed 5W - Up to 40' with power feeds at both ends, 20' with one feed
REQUIRED COMPONENTS	Power Supplies & Power Cables
MATERIAL	Optical Silicone
OPERATING TEMPERATURE	-40° F (-40° C) to 122° F (+50° C)
AVERAGE LED LIFE	50,000 hrs
WARRANTY	5 Year pro-rated
COMPLIANCE	Class 2 Wiring, Outdoor Wet Location with Water Tight Barrel Connectors, IP66 Rated, ETL listed, RoHS

REMOTE POWER SUPPLIES* & CONTROLS (SOLD SEPARATELY)

24VDC, Class 2 wiring

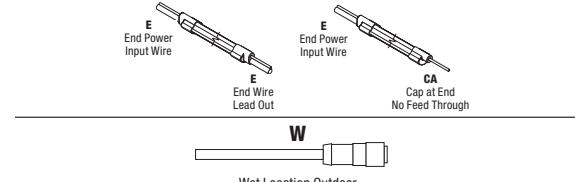
OUTDOOR

- [Pure Smart™ WiZ Pro Power Supplies & Controls](#)
- [UNI Driver: Universal Dimming \(TRIAC, ELV, 0-10V\)](#)

INDOOR

- [Pure Smart™ WIZ Pro Power Supplies & Controls](#)
- [UNI Driver: Universal Dimming \(TRIAC, ELV, 0-10V\)](#)

Wet Location End Cap with Aircraft Cable



POWER FEED ONE END ONLY

System	Model Shape	Wattage	Length in Feet	Color Temperature	5" Input Wire Feed	Output Wire	Environment
FN Flex Neon 24V	SMCS6 Saber Mini Suspension .6"	5W	20	27KZ	E	CA	W

FN Flex Neon 24V SMCS6 Saber Mini Suspension .6"
 3W 3.3 watts per foot
 5W 4.4 watts per foot
 3W - Up to 30' with power feed at one end
 5W - Up to 20' with power feed at one end
 24KZ 2400K Very Warm White
 27KZ 2700K Incandescent White
 30KZ 3000K Warm White
 35KZ 3500K Neutral White
 40KZ 4000K Cool White
 E End Power Input Wire
 CA Cap at end, no feed through
 W Outdoor wet location
 Barrel Connector cable leads

POWER FEED BOTH ENDS

System	Model Shape	Wattage	Length in Feet	Color Temperature	5" Input Wire Feed	Output Wire	Environment
FN Flex Neon 24V	SMCS6 Saber Mini Suspension .6"	5W	20	27KZ	E	E	W

FN Flex Neon 24V SMCS6 Saber Mini Suspension .6"
 3W 3.3 watts per foot
 5W 4.4 watts per foot
 3W - Up to 31-60' with power feed at both ends
 5W - Up to 21-40' with power feed at both ends
 24KZ 2400K Very Warm White
 27KZ 2700K Incandescent White
 30KZ 3000K Warm White
 35KZ 3500K Neutral White
 40KZ 4000K Cool White
 E End Power Input Wire
 E End Wire Lead Out
 W Outdoor wet location
 Barrel Connector cable leads

PROJECT	FIXTURE TYPE	DATE

SABER MINI SUSPENSION 0.6" ROUND

24VDC 3W & 5W OUTDOOR/WET LOCATION, STATIC WHITE

Lamp Data

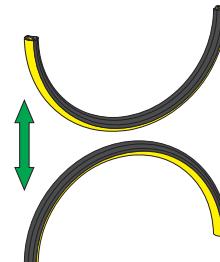
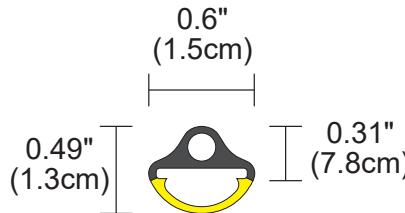
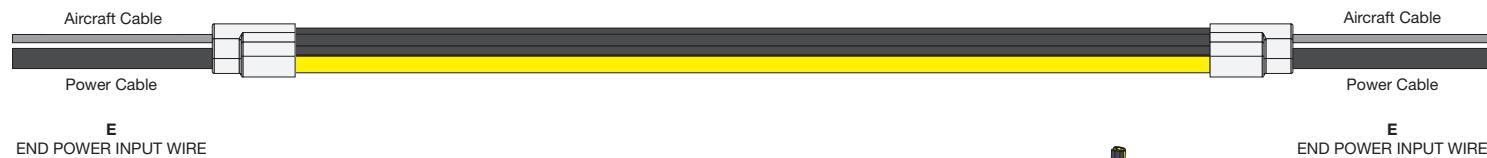
WATTS PER FOOT	3W (3.3 watts)					5W (4.4 watts)				
	24KZ	27KZ	30KZ	35KZ	40KZ	24KZ	27KZ	30KZ	35KZ	40KZ
LUMENS PER FOOT (lm/ft)	198	210	282	283	305	248	264	354	355	383
LUMENS PER WATT (lm/w)	60	64	85	86	92	56	60	80	81	87
CRI	90+	95+	95+	85+	85+	90+	95+	95+	85+	85+

Drawings

POWER FEED ONE END ONLY



POWER FEED BOTH ENDS



LENGTH CHART

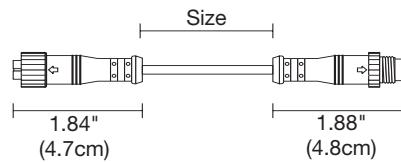
Actual lengths for Mini Saber Suspension SMCS6

LENGTH CHART									
Ordering Code (Nominal Size)	Actual Length (Inches)	Ordering Code (Nominal Size)	Actual Length (Inches)	Ordering Code (Nominal Size)	Actual Length (Inches)	Ordering Code (Nominal Size)	Actual Length (Inches)	Ordering Code (Nominal Size)	Actual Length (Inches)
1	12.75	11	132.75	21	252.75	31	372.75	32	384.75
2	24.75	12	144.75	22	264.75	33	396.75	34	408.75
3	36.75	13	156.75	23	276.75	35	420.75	36	432.75
4	48.75	14	168.75	24	288.75	37	444.75	38	456.75
5	60.75	15	180.75	25	300.75	39	468.75	40	480.75
6	72.75	16	192.75	26	312.75				
7	84.75	17	204.75	27	324.75				
8	96.75	18	216.75	28	336.75				
9	108.75	19	228.75	29	348.75				
10	120.75	20	240.75	30	360.75				

PROJECT	FIXTURE TYPE	DATE
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FLEX NEON OUTDOOR ACCESSORIES AND J-BOXES

24VDC 3W & 5W OUTDOOR/WET LOCATION, STATIC WHITE

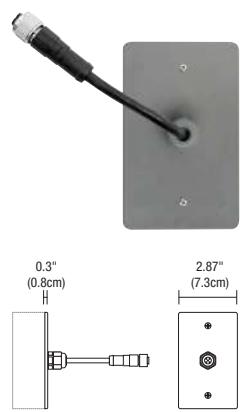
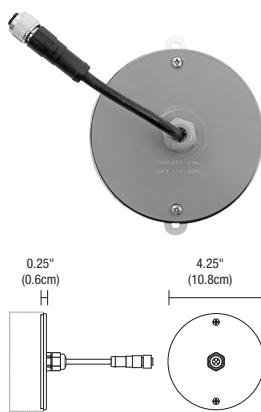


POWER CABLE CONNECTOR WET LOCATION (REQUIRED)

The flexible 4 conductor power cable connector is designed to work in outdoor environments for safe and reliable connections. This Flexible Connector is easy to install and configure, helping you create innovative lighting designs in an outdoor commercial or residential space.

Product	Type	Size	Option
SS	CFX	12IN	W

SS Soft Strip and Flex Neon CFX Flexible 4 Wire Connector 12IN 12" 96IN 96" W Wet Location



CANOPY (ORDER SEPARATELY)

Outdoor canopy with 8ft outdoor barrel connector power feed, may be cut on job site.

System	Type	Canopy	Finish
OC8P	CFX	RD	ZN

OC8P Outdoor Canopy with 8' outdoor Power cable CFX Flexible 4 Wire Cable with Barrel Connector for Static White and Tunable LEDs RD Round Cover, 1 gauge 4.125" RE Rectangle Cover, 1 gauge 2.8" x 4.5" ZN Zinc

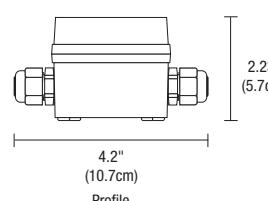
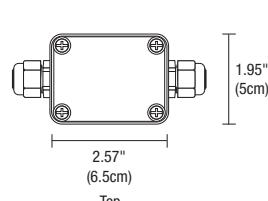


WET LOCATION JUNCTION BOX WITH 6" POWER CABLE

This watertight, multi-fixture Junction Box is especially designed for lighting in wet and damp locations. It is versatile, rugged and simple to install. The Junction Box comes standard with a 6" four wire flexible cable with both male and female barrel connectors providing easy, safe, and reliable connections for 24V low voltage luminaires. This box is approved for indoor and outdoor usage and complies with all the requirements of UL1241 and the National Electric Code.

Product	Canopy	Product	Size	Option
SS	2RE	JBOX	6IN	W

SS Soft Strip 2RE 2" Rectangle JBOX Junction Box 6IN 6" Four Wire Connection W Wet Location



WET LOCATION JUNCTION BOX

Wet-rated low voltage Splice Box with connectors.

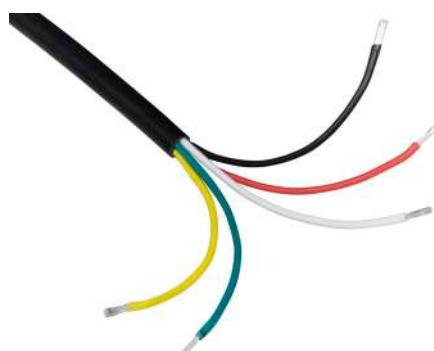
Product	Type	Option
2RE	JBOX	W

2RE 2" Rectangle JBOX Junction Box W Wet Location

PROJECT	FIXTURE TYPE	DATE

FLEX NEON OUTDOOR ACCESSORIES AND J-BOXES

24VDC 3W & 5W OUTDOOR/WET LOCATION, STATIC WHITE

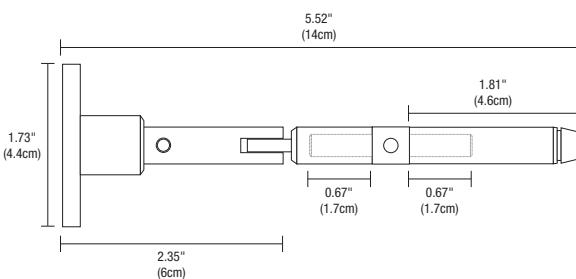


WET AND DAMP LOCATION CABLE ORDER PER FOOT

Our Wet Location, 5 Conductor, 14 Gauge Cable is a durable and adaptable cable suitable for transmitting power, control, and switching in indoor and outdoor wet and damp environments. Cable sold by the foot, simply specify the length needed by the foot. Keep within 50 ft between fixture and power supply. Cable sold by the foot, simply specify the length needed by the foot.

Product	Gauge	Cable
OC	14G	5C

OC Outdoor Cable **14G** 14 Gauge **5C** 5 Conductor



PAIR OF TURNBUCKLES AND AIRCRAFT CABLE (INCLUDED)

The Slim-Profile Turnbuckles hold the tension of the aircraft cable running through the silicone Saber Mini tube with LED strip. 6' stainless steel aircraft cable included.

Product	Finish
SABT	PN

SABT Saber Line Turnbuckle **PN** Polished Nickel



AIRCRAFT CABLE (INCLUDED WITH AN EXTRA 6')

Product	Type	Length
ACBL	SAB	50FT

ACBL Aircraft Cable for Saber **SAB** Saber 10ft to 50ft lengths

PROJECT		Fixture Type		DATE
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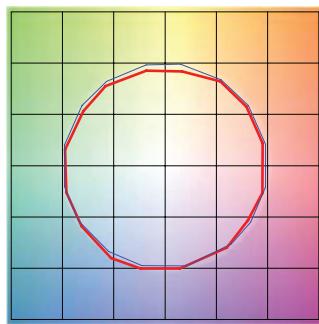
TM30 DATA

24VDC 3W & 5W OUTDOOR/WET LOCATION, STATIC WHITE

TM-30-15 DATA: The data below is for Lazer Strip bare LED Soft Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

2400K | Rf: 91.2 | Rg: 96.8

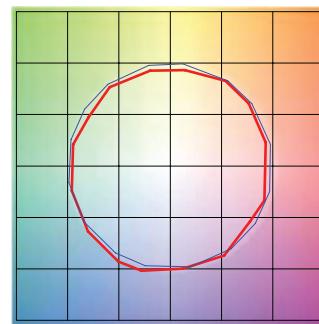
Color Vector Graphic


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	92.0	-2.4%	1.5%
2	94.7	-2.1%	0.0%
3	95.4	-1.9%	-0.1%
4	88.7	-6.7%	-3.1%
5	92.8	-5.6%	1.0%
6	92.7	-3.4%	3.4%
7	89.9	-4.3%	4.1%
8	92.4	-1.4%	4.4%
9	89.0	-0.6%	5.8%
10	88.9	0.4%	6.2%
11	89.7	4.0%	5.4%
12	92.6	3.0%	-0.7%
13	90.9	1.1%	-7.0%
14	89.9	0.5%	-5.8%
15	92.1	-3.2%	0.1%
16	88.9	-1.7%	-6.3%

2700K | Rf: 87.7 | Rg: 96.1

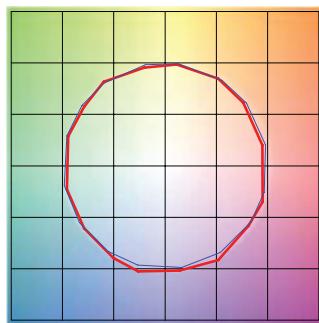
Color Vector Graphic


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	88.0	-4.3%	2.6%
2	91.6	-2.4%	2.0%
3	93.7	-1.4%	1.9%
4	88.9	-5.6%	-3.1%
5	92.3	-5.5%	-0.5%
6	92.9	-3.5%	0.1%
7	84.5	-7.5%	4.6%
8	90.8	-3.0%	4.4%
9	84.5	-1.3%	8.3%
10	83.9	2.0%	9.8%
11	87.2	5.3%	7.1%
12	89.2	5.4%	-2.6%
13	88.7	0.3%	-7.8%
14	86.8	1.7%	-9.3%
15	87.6	-5.4%	-1.3%
16	83.6	-3.3%	-9.5%

3000K | Rf: 88.1 | Rg: 99.7

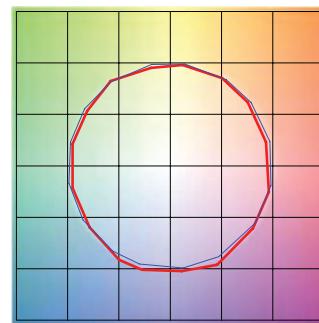
Color Vector Graphic


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	92.5	-3.1%	0.3%
2	93.3	-2.3%	1.9%
3	90.9	-0.8%	3.9%
4	94.3	-1.1%	1.4%
5	92.5	-2.6%	1.5%
6	96.4	1.2%	-0.3%
7	92.6	-2.5%	-0.0%
8	96.9	-1.4%	0.2%
9	92.3	-1.8%	4.3%
10	86.6	-0.7%	7.0%
11	86.5	2.4%	8.2%
12	89.8	5.9%	1.7%
13	93.9	2.6%	-2.7%
14	89.4	5.1%	-5.8%
15	90.1	-0.1%	-4.7%
16	86.5	0.3%	-9.7%

3500K | Rf: 86.1 | Rg: 95.5

Color Vector Graphic


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.8	-3.8%	0.3%
2	92.3	-2.8%	2.1%
3	89.7	-1.0%	4.3%
4	92.6	-1.4%	1.7%
5	91.8	-3.1%	1.3%
6	96.2	0.8%	-0.4%
7	92.9	-3.2%	0.2%
8	94.3	-2.5%	1.5%
9	90.4	-2.5%	5.2%
10	84.3	-1.4%	9.5%
11	83.1	3.5%	9.8%
12	88.2	4.8%	3.4%
13	94.0	2.7%	-2.0%
14	88.7	5.9%	-5.8%
15	88.7	0.7%	-5.9%
16	86.8	-0.7%	-6.7%

PROJECT

Fixture Type

DATE



PROFESSIONAL
OUTDOOR LIGHTING

SPECIFICATION SHEET

MODEL 4014 Landscape Series • Specialty Lights

Fixture Specifications:

HOUSING:

Heavy gauge extruded aluminum.

STEM:

Heavy gauge, adjustable, nickel plated stainless steel tubing.

FINISH:

Black polyester powder-coat finished housing & base with black UV resistant PVC incased stem.

SOCKET/LAMP HOLDER:

Top grade ceramic socket with nickel contacts, stainless steel springs, & Teflon-jacketed wire leads.

LENS:

Shock & heat resistant soda-lime glass lens.

LAMP TYPE:

- MR-16 Halogen – 20W maximum. LN-20 BAB (20W) Standard.
- MR-16 LED Lamp - 36° Flood, 4.5W is standard.

MOUNTING:

Bottom of stem threaded into CNC-machined solid aluminum mounting canopy.

Type:

Model:

Project:

FASTENERS:

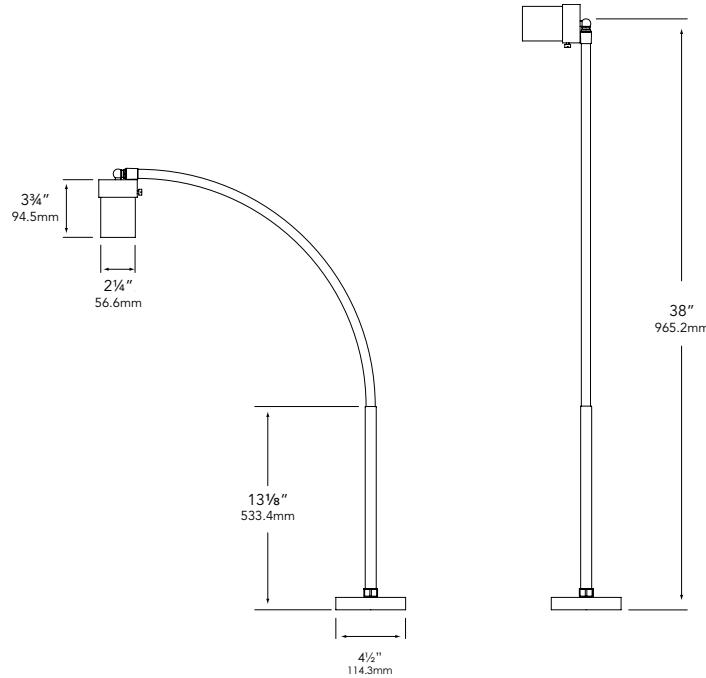
All fasteners are stainless steel.

WIRING:

Prewired with a 3' pigtail of 18-2 direct-burial cable & underground connectors for a secure connection to supply cable. Optional hardwired on/off switch available.

All Vista luminaires are **MADE IN U.S.A.**

DIMENSIONS:



Vista Professional Outdoor Lighting reserves the right to modify the design and/or construction of the fixture shown without further notification.

1625 Surveyor Avenue • Simi Valley, CA 93063 • (805) 527-0987 • (800) 766-VISTA (8478)
FAX: (888) 670-VISTA (8478) • email@vistapro.com • www.vistapro.com



PROFESSIONAL
OUTDOOR LIGHTING

SPECIFICATION SHEET

MODEL 4014 Landscape Series • Specialty Lights

Fixture Ordering Information

TO ORDER FIXTURE: Select appropriate choice from each column as in the following example.

EXAMPLE: FL-4014-B-BAB-SL

MOUNTING	MODEL	FINISH	LAMP	ACCESSORIES
FL - Flexible stem with solid CNC-machined aluminum mounting base	4014	B - Black	MR-16 Halogen 20W maximum LN-20 BAB (20W) Standard LED MR-16 4.5 W LN16-4.5-W-36-LED	BL - Flat Cool Blue lens SL - Flat Spread lens FR - Flat Frosted lens DBL - Flat Dark Blue lens GL - Flat Dark Green lens RL - Flat Red lens YL - Flat Amber lens

Fixtures shipped with standard lamp, unless otherwise specified.

Vista Professional Outdoor Lighting reserves the right to modify the design and/or construction of the fixture shown without further notification.

VISTA LANDSCAPE LIGHTING

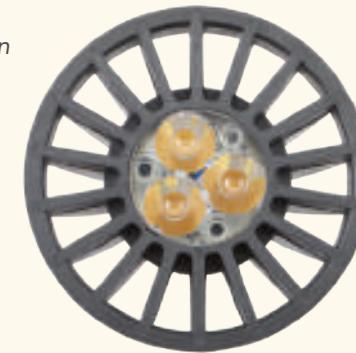
HIGH-PERFORMANCE LED LAMPS

MADE IN AMERICA SPECIFICALLY FOR LANDSCAPE LIGHTING APPLICATIONS

Vista has developed a new LED lamp concept "from the ground up" that incorporates revolutionary patent-pending features that provide innovative performance advantages in outdoor environments. Outdoor applications have temperature and humidity extremes rarely encountered in indoors.

Vista's engineers tested hundreds of "indoor" lamps being offered to the landscape market and concluded that very few would offer the lifespan and long-term performance demanded by professionals.

Vista's new LED lamps will enable you to upgrade any existing landscape lighting installation to the energy-saving benefits of LED without sacrificing performance, longevity or quality of light.



ORDER FACTORY-INSTALLED OR RETROFIT IN THE FIELD

AVAILABLE IN YOUR FAVORITE VISTA FIXTURES

Your favorite Vista up-and-accent, in-ground, path-and-spread, brick/step and specialty fixtures are available with Vista's new LED lamps as a factory-installed option.

Enjoy the industry's broadest selection of American-made fixture styles in energy-saving LED. Simply add the part number of the lamp to the fixture model number.



INDIVIDUAL RETROFIT LAMPS

Upgrade any existing landscape lighting installation to the energy-saving benefits of LED. Optics and light output meet or exceed halogen performance for customer-pleasing results. Huge opportunities to help thousands of existing installations "go green."



MR-16 LED



MR-11 LED



T3 LED



ENGINEERED FOR OUTDOOR LIGHTING SPECIFICALLY FOR USE IN EXTERIOR LIGHTING FIXTURES

DRAMATIC ENERGY SAVINGS

4.5W MR-16 lamp replaces 20W halogen, 5.5W MR-16 lamp replaces 35 watt halogen. 2.5W MR-11 and T3 lamps replace 20W halogen. Low wattage draw allows more lamps per cable and transformer. Easily add new fixtures to existing wiring when converting to LED.

EYE-APPEALING, PRECISE LIGHT

Warm white, rated at 2950K with consistent color from lamp to lamp, with high performance optics. Choice of 15, 25, 36, 50 and 60 degree beam spreads for MR-16 and MR-11 LEDs. LED T3 includes 360 degree side emitting optics.



INNOVATIVE UNITIZED CONSTRUCTION

This forward-thinking design seals the LED board and driver in the corrosion-resistant thermo-composite body during the molding process. This environmentally isolates the critical components and avoids the complex multiple part-on-part construction of common aluminum LED lamps; eliminating fasteners, screws, glues, thermo grease and hand assembly. Composite material also helps prevent potential electrolysis that could occur when an aluminum lamp is used in certain copper or brass fixtures.

ADVANCED THERMAL MANAGEMENT

Achieving long life requires the ability to dissipate heat effectively away from the LEDs and driver, even in a sealed fixture. Using a patent-pending thermal management that features a thermo-composite heat sink design, the Vista LED lamps can operate up to 25 degrees cooler than standard LED aluminum lamps.

VISTA HIGH-PERFORMANCE LED COMPARISON GUIDE

Model	Vista High-Performance LED Lamps						Halogen Equivalent			Savings	
	Wattage	Lumens	Beam Angle	CRI	Life (Hrs)	Annual Operating Cost	Wattage	Life (Hrs)	Annual Operating Cost	Annual Savings Per Lamp	Extended Lamp Life (Hours)
LN16-4.5-W-15°-LED	4.5	255	15°	82	35,000	\$1.97	20	5,000	\$8.76	\$6.79	30,000
LN16-4.5-W-25°-LED	4.5	255	25°	82	35,000	\$1.97	20	5,000	\$8.76	\$6.79	30,000
LN16-4.5-W-36°-LED	4.5	267	36°	82	35,000	\$1.97	20	5,000	\$8.76	\$6.79	30,000
LN16-4.5-W-60°-LED	4.5	255	60°	82	35,000	\$1.97	20	5,000	\$8.76	\$6.79	30,000
LN16-5.5-W-15°-LED	5.5	335	15°	82	35,000	\$2.41	35	5,000	\$15.33	\$12.92	30,000
LN16-5.5-W-25°-LED	5.5	355	25°	82	35,000	\$2.41	35	5,000	\$15.33	\$12.92	30,000
LN16-5.5-W-36°-LED	5.5	364	36°	82	35,000	\$2.41	35	5,000	\$15.33	\$12.92	30,000
LN16-5.5-W-60°-LED	5.5	352	60°	82	35,000	\$2.41	35	5,000	\$15.33	\$12.92	35,000
LN11-2.5-W-15°-LED	2.5	200	15°	82	30,000	\$1.10	20	2,000	\$8.76	\$7.67	28,000
LN11-2.5-W-25°-LED	2.5	200	25°	82	30,000	\$1.10	20	2,000	\$8.76	\$7.67	28,000
LN11-2.5-W-36°-LED	2.5	200	36°	82	30,000	\$1.10	20	2,000	\$8.76	\$7.67	28,000
LN11-2.5-W-60°-LED	2.5	200	60°	82	30,000	\$1.10	20	2,000	\$8.76	\$7.67	28,000
LNT3-2.5-W-S-LED	2.5	170	NA	80	30,000	\$1.10	20	2,000	\$8.76	\$7.67	28,000
LNT3-2.5-W-D-LED	2.5	170	NA	80	30,000	\$1.10	20	2,000	\$8.76	\$7.67	28,000

Note: Operating cost based on \$0.12/kwh and 3650 hours of operation.

FEATURES & SPECIFICATIONS

- **Designed & Manufactured in USA** – exclusively for Vista Professional Outdoor Lighting.
- **Up to 80% Energy Savings** over standard halogen lamps. Low wattage draw allows more lamps per cable and transformer. Add new fixtures to existing wiring when converting to LED.
- **35,000 hour lamp life** – reduces maintenance, annual re-lamping and lamp replacement costs. 5 year warranty.
- **Operating Voltage** – 9V to 15V (AC/DC), virtually eliminates voltage drop concerns.
- **Dimmable** – with most magnetic transformers.
- **Wattage**: 4.5W lamp replaces 20W halogen, 5.5W lamp replaces 35 watt halogen.
- **Precision optics** - choice of 25, 36 and 60 degree beam spreads.
- **Eye-appealing warm white light** – designed to closely match the performance of MR-16 halogen lamps, rated at 3000K, consistent color from lamp to lamp. Allows for mixing with other halogen fixtures on the same project.
- **Advanced Thermo Composite design** – Corrosion-resistant material reliably dissipates heat for long life. Effectively eliminates unsafe electrolysis when aluminum lamp comes in contact with certain copper or brass fixtures.
- **Green design** – RoHS Compliant, mercury free, fully recyclable.



LANDSCAPE
LIGHTING



AMERICAN MADE

Vista Professional Outdoor Lighting (805) 527-0987 www.VistaPro.com

LT1624 (5/16)

LineLED LL Series Wet Tube

IP65, IP67, & IP68 rated Linear LED strip - 24V



Features

LineLED Wet Tube is a small profile, energy efficient LED strip for IP65, IP67, and IP68 rated wet installations. LineLED Wet Tube offers excellent color quality with CRI and R9 values up to 97 as well as multiple output options and a wide angle 120° beam. With a durable but flexible circuit board, LineLED Wet Tube is also easy to install.

To maintain IP65, IP67, and IP68 rating, LineLED Wet Tube is factory sealed and bonded. Order in exact lengths required for install, LineLED Wet Tube is not field cuttable. IP rating of strip is equal to the lowest IP rating of section start and end options.

Mounting

LED strip is equipped with 3M™ adhesive transfer tape (9472LE).

Applications

Outdoor and wet locations - cove lighting, architectural accent, handrail, wet bars

Approvals

IP65, IP67, and IP68 rated

Operating voltage

24 VDC

Life (L70)

50,000 hours

Warranty

3 years



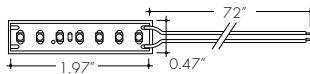
Technical information

TYPE	LL42-WET-T		
OUTPUT OPTIONS	SO	HO	VHO
Lumens Output (3000K)	119 lm/ft	200 lm/ft	290 lm/ft
Average Power Consumption (for a 4' section)	1.4 W/ft	2.4 W/ft	3.6 W/ft
Efficacy	85 lm/W	83 lm/W	81 lm/W
Cutting Increment (in)	1.97"		
Pitch Length	0.28"		
Max Run Length (in series)	55 ft	45 ft	35 ft
Dimensions	0.47"W x 0.24" H		

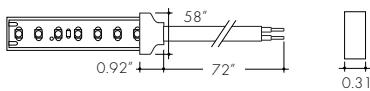
CCT	Multiplier (reference - 3000K)	TM-30			
		CRI	R _f	R _g	R ₉
2700K	0.76	97	96	101	91
3000K	1.00	97	95	104	97
3500K	1.02	97	94	105	97
4100K	1.12	97	90	99	97

Section Start/End Options

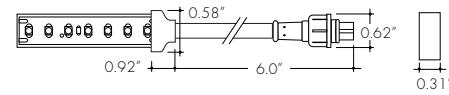
SL65
72" Soldered Leads, IP65 rated



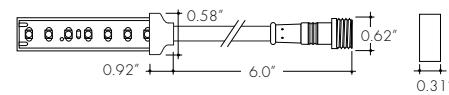
SL68
72" Soldered Leads, IP68 rated



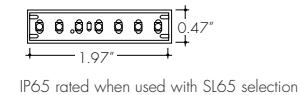
LF
Female Quick Connect End, IP67 rated



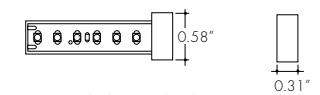
LM
Male Quick Connect End, IP67 rated



NC
No Connector



IP65 rated when used with SL65 selection



IP67 rated when used with LM or LF selection

IP68 rated when used with SL68 selection

Ordering code

MODEL	OUTPUT	CCT	SECTION START ¹	SECTION END ¹	LENGTH
LL42WET-T-LineLED LL Series Wet Tube	SO-Standard HO-High VHO-Very High	27K-2700K 30K-3000K 35K-3500K 41K-4100K	SL65-IP65 Soldered lead wires (72") SL68-IP68 Soldered lead wires (72") LF-IP67 Female Quick Connect LM-IP67 Male Quick Connect NC-No Connector	SL65-IP65 Soldered lead wires (72") SL68-IP68 Soldered lead wires (72") LF-IP67 Female Quick Connect LM-IP67 Male Quick Connect NC-No Connector	Ordered in one foot increments. See chart above for max run length.

¹- IP rating of strip is equal to the lowest IP rating of section start and end options.

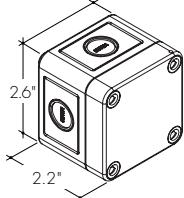
LineLED LL Series Wet Tube | IP65, IP67, & IP68 rated Linear LED strip - 24V



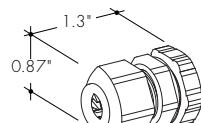
Accessories

LVSP-WET

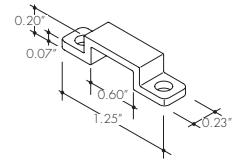
Splice box: wet rated, low voltage, gray

**LVSP-WET-CM**

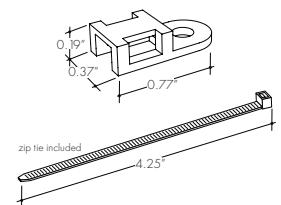
Splice box connector, low voltage, gray

**CL2**

Mounting clip

**LL.ZIP**

Cable/Wire Strain Relief Clip



Recommended every 12" when LineLED strip is facing down

LineLED LL Series Wet Tube | IP65, IP67, & IP68 rated Linear LED strip - 24V



Lens Options / Light Transmission



Clear

Half (50%)
Frosted

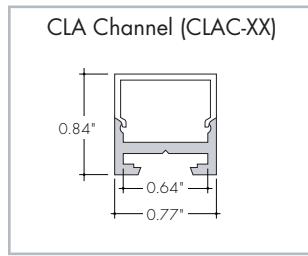
Graze



Frosted

Flat
Frosted

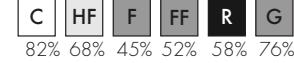
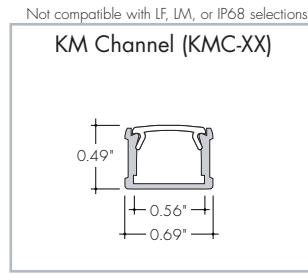
Raised

Square
FrostedRound Square
Frosted13°
Semi-Frosted

62%



65%



82%



68%



45%



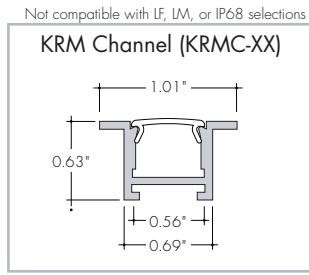
52%



58%



76%



82%



68%



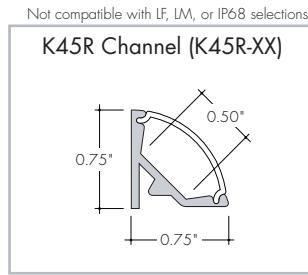
45%



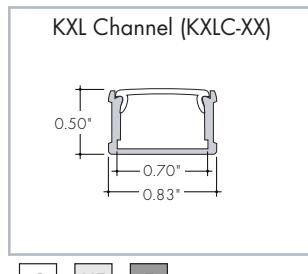
52%



76%



61%



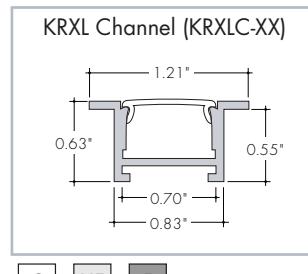
81%



67%



51%



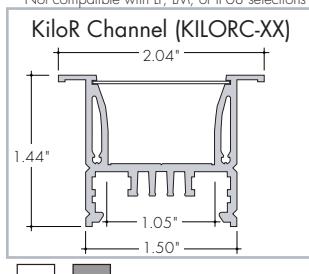
81%



67%



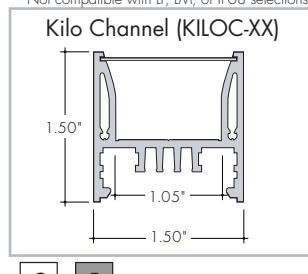
51%



85%



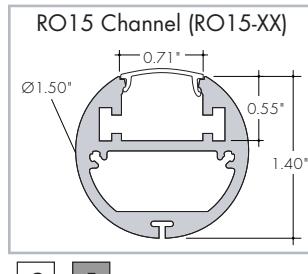
75%



85%



75%



65%



41%

Led Dotting per Extrusion

using the frosted lens option

Extrusion	LED Model LL42WET-T
KXL, KRXL	ND
KLC, KRLC	ND
KILOC, KILOC	ND
RO15	ND
KMC	ND
CLAC	ND
MCAL	ND



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

Installation

All mounting channels are field cuttable using miter saw with circular blade suitable for cutting aluminum.

Ordering

Extrusions are sold separately. View respective specsheets for details on ordering extrusions and their accessories (endcaps, mounting brackets, etc.).

LineLED LL Series Wet Tube

IP65, IP67, & IP68 rated Linear LED strip - 24V



Power Consumption

Tested at full power with PDC Series power supplies.

LL42

Nominal Length	SO		HO		VHO	
	W/ft	Total Wattage	W/ft	Total Wattage	W/ft	Total Wattage
1	1.2	1.2	2.2	2.2	3.2	3.2
2	1.2	2.4	2.5	4.9	3.2	6.4
3	1.4	4.1	2.4	7.0	3.4	10.1
4	1.4	5.3	2.4	9.2	3.6	14.1
5	1.4	7.1	2.3	11.3	3.6	17.8
6	1.4	8.7	2.3	13.8	3.6	21.6
7	1.4	10.0	2.3	16.1	3.6	25.6
8	1.4	11.1	2.3	18.1	3.6	28.9
9	1.4	12.4	2.3	20.3	3.5	31.6
10	1.4	13.9	2.3	23.0	3.5	34.7
11	1.4	15.4	2.3	25.0	3.4	37.3
12	1.4	16.4	2.3	27.2	3.3	40.0
13	1.4	17.9	2.2	29.1	3.3	42.7
14	1.4	19.0	2.2	31.0	3.3	45.4
15	1.4	20.2	2.2	32.5	3.2	48.0
16	1.3	21.7	2.2	35.1	3.2	51.3
17	1.3	22.7	2.1	36.6	3.1	53.7
18	1.3	23.9	2.1	38.1	3.1	55.8
19	1.3	25.0	2.1	39.8	3.1	58.1
20	1.3	26.5	2.2	43.4	3.0	60.1
21	1.3	27.5	2.1	45.0	3.0	62.3
22	1.3	28.8	2.1	46.6	2.9	64.6
23	1.3	30.0	2.1	48.2	2.9	67.0
24	1.3	31.1	2.1	49.7	2.9	69.1
25	1.3	32.4	2.1	51.3	2.9	71.4
26	1.3	33.4	2.0	52.6	2.8	73.1
27	1.3	34.6	2.0	54.2	2.8	75.0
28	1.3	35.6	2.0	55.5	2.7	76.6
29	1.3	36.6	2.0	56.8	2.7	78.1
30	1.3	37.6	1.9	58.1	2.7	79.7
31	1.2	38.5	1.9	59.3	2.6	81.1
32	1.2	39.4	1.9	60.6	2.6	82.5
33	1.2	40.4	1.9	61.8	2.5	83.8
34	1.2	41.2	1.9	63.0	2.5	85.1
35	1.2	42.1	1.8	64.2	2.5	86.5
36	1.2	43.0	1.8	65.2		
37	1.2	44.0	1.8	66.4		
38	1.2	44.9	1.8	67.4		
39	1.2	45.8	1.8	68.5		
40	1.2	46.6	1.7	69.4		
41	1.2	47.3	1.7	70.3		
42	1.1	48.0	1.7	71.3		
43	1.1	48.8	1.7	72.2		
44	1.1	49.5	1.7	73.2		
45	1.1	50.1	1.6	74.0		
46	1.1	50.9				
47	1.1	51.7				
48	1.1	52.4				
49	1.1	53.1				
50	1.1	53.8				
51	1.1	54.4				
52	1.1	55.0				
53	1.1	55.7				
54	1.0	56.3				
55	1.0	56.8				

LineLED LL Series Wet Tube

IP65, IP67, & IP68 rated Linear LED strip - 24V



Voltage Drop Calculator

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

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

LineLED LL Series Wet Tube | IP65, IP67, & IP68 rated Linear LED strip - 24V

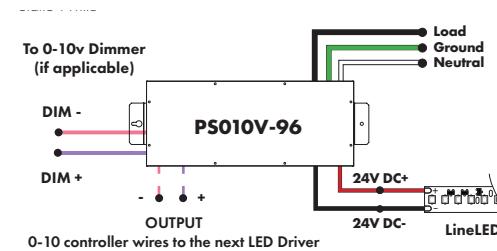


Power Supplies

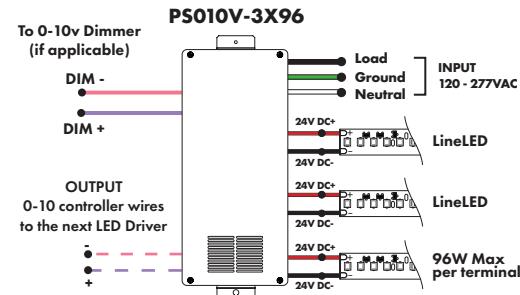
See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

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

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



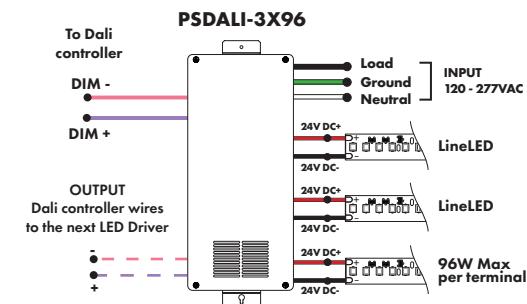
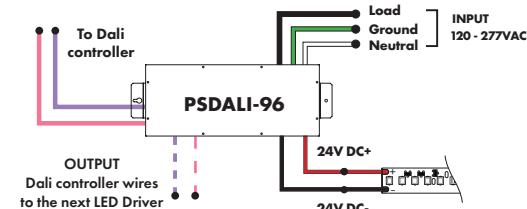
MODELS	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.62"
Depth	2.60"	4.20"



DALI 0% Dimming Power Supplies 120VAC - 277VAC

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

Features eldoLED's LINEARdrive configurable dimmable drivers

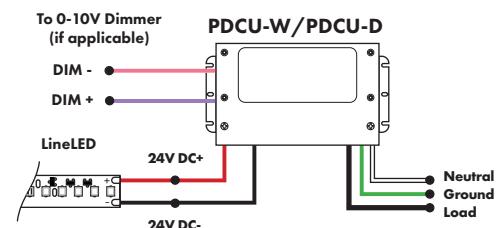


Universal Power Supply 1% 120VAC - 277VAC

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

0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%.

For a complete list of compatible dimmers, see [Compatible Dimming Chart](#) on the Resources page.



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

LineLED LL Series Wet Tube | IP65, IP67, & IP68 rated Linear LED strip - 24V



Power Supplies

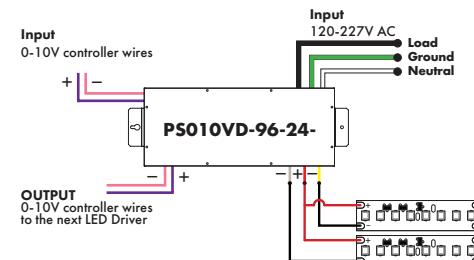
See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Customizable Dim to Warm or Variable White via 0 - 10V
(for tunable white or warm dimming control of Dynamic option)

MODEL	POWER	OUTPUT	CONTROL
PS010VD-0-10V Vintage Dim LED Driver	96-96 Watt	24-24 VDC	W2I-Standard dimming for both tapes

*Zonal control power supplies

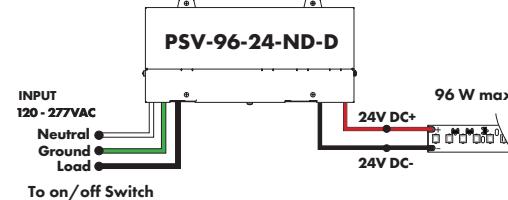
MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"



Non-Dimming Power Supply 120VAC - 277VAC

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

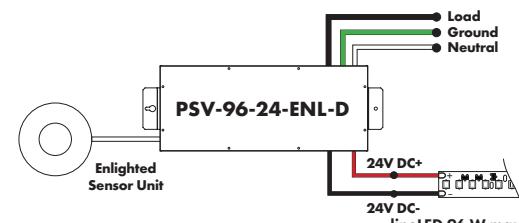
MODELS	96W
Length	8.25"
Width	3.75"
Depth	1.63"



Enlighted Enabled Dimming Power Supplies 120VAC - 277VAC

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

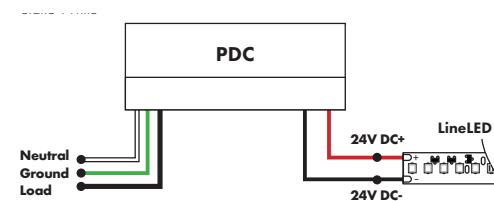
Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"



Triac, MLV, ELV Compatible Dimmers

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

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



LineLED LL Series Wet Tube | IP65, IP67, & IP68 rated Linear LED strip - 24V



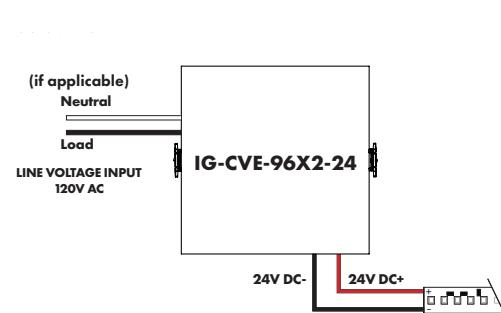
Power Supplies

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

In-Ground Power Supplies

MODEL	POWER	OUTPUT	INPUT
IG - In ground CVE Series	CVE - ELV Dimming	96X2 - 2 X 96 Watt	24 - 24 VDC
DAU - eldoLED Dali dimming			Blank - 120 V 277 - 240/277 V

Both dims down to 0%



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



Luminii is a Lutron OEM Advantage Partner

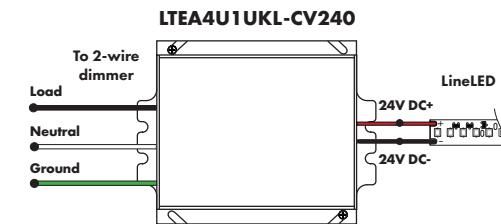
Lutron Power Supplies 1%

MODEL
LTEA4U1UKL-CV240

Lutron - Hi-lume™ 1% 2-wire LED Driver 40W max

(120V forward phase only)

MODEL	LTEA41UKL-CV240
Length	4.89"
Width	4.00"
Depth	2.62"



DMX Dimming Power Supplies 120VAC - 277VAC

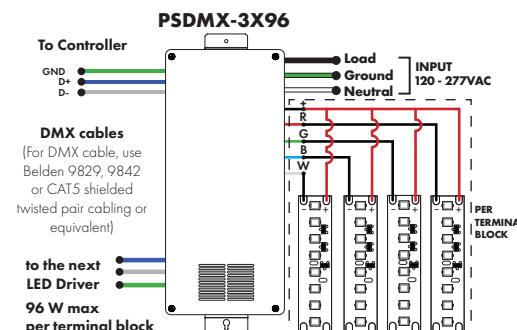
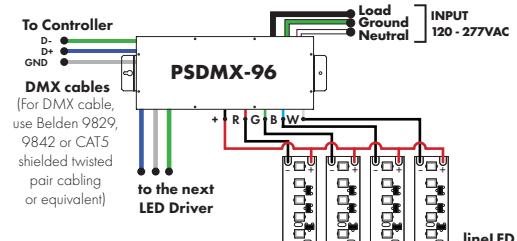
MODEL	POWER	OUTPUT
PSDMX - DMX Power Supply	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

DMX Power Supply dims down to 0%

Features eldoLED's LINEARdrive configurable dimmable drivers

*Zonal control power supplies. Control multiple tapes/zones using DMX channels.

MODEL	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.60"
Depth	2.60"	4.20"



LineLED LL Series Wet Tube | IP65, IP67, & IP68 rated Linear LED strip - 24V



Decoders



DMX512 decoder with RDM functionality features 5 PWM output channels with common anode. High PWM output frequency range allows the product to be used in HD video conferencing spaces. All DMX products to be installed per DMX512 Standard.

Power
96 Watt

PWM Output Resolution Ratio
8 or 16 bit

Inputs
RJ45, XLR-5Pin, Terminal Block

PWM Output Frequency
500Hz - 30KHz

DMX Channels
1 to 5 settable

Output Dimming Curve Gamma Value
0.1 ~ 9.9

MODEL

DDMX-5CH-RDM-PRO

DDMX-5CH-RDM-PRO - DMX512 Decoder



Translates controller DMX512 programs for RGB and white LED strips.

Unique DMX address for the decoder can be set easily and displayed by the numeric display on the case. Changing and resetting the DMX address requires manual input.

Use power repeater to expand output (Luminii part# RGBW-SR).

Operating Voltage
12-36 VDC

Operating Temperature Range
from -4°F to +122°F in case

Power Capacity
up to 96W at 24V

PWM Output Frequency
200Hz or 1500Hz

MODEL

DDMX-RGBW

DDMX-RGBW - DMX512 Decoder



The RGBW receiver is easily paired with controller by the click of a button. Receiver can be reset to factory settings at any time.

Each receiver can store one static RGB color, one color sequence, and one brightness setting for the white LED strip. Receivers assigned to the same scene within the same zone will have the same LED static color and color sequence.

Operating Voltage
12-36 VDC

Operating Temperature Range
from -4°F to +122°F in case

Power Capacity
up to 96W at 24V

MODEL

RGBW-RC-R

RGBW-RC-R - RGBW receiver

LineLED LL Series Wet Tube | IP65, IP67, & IP68 rated Linear LED strip - 24V



Decoders



MODEL

RGBW-SR

RGBW-SR - RGBW signal repeater

Extends identical signal when connected in series to an RGBW LED control system. The RGBW signal repeater works with Luminii RGB and RGBW controllers, receivers, and decoders.

RGBW signal can be extended indefinitely when adequate power supply (not included) is connected to the system.

Operating Voltage
12-36 VDC

Power Capacity
up to 96W at 24V

Operating Temperature Range
from -4°F to +122°F in case



MODEL

RGBW-WI-R

RGBW-WI-R - WiFi generator

RGBW-WI-R creates a local network that enables any electronic device (phone, tablet, etc.) to control the RGB/W strip connected to a RGBW-RC-R receiver.

The control functions are achieved through a free application download for Android and iOS devices called REALCOLOR.

Operating Voltage
12-36 VDC

Power Supply
PI-130-24 (included)

Operating Temperature Range
from -4°F to +122°F in case



MODEL

TSDMX-E

TSDMX-E - Touchscreen DMX controller

Programmable advanced DMX512 lighting controller featuring a touch-screen interface. Operates as stand alone controller or integrated with most architectural lighting control systems. Can control endless DMX512 enabled devices.

Mounts to standard single or dual gang wall box with the included power supply inside the junction box. Terminal block design for power and data connections.

Features

- Sleek glass design which sits 0.43" from the wall
- Graphical color display to show selected environment
- Color/dimmer/speed palette
- Color temperature mixing
- Touch sensitive buttons. No mechanical parts
- Touch sensitive wheel allows for accurate color selection
- Multi-zone microSD memory
- Multi-room control with 500 scenes, 10 zones
- 1024 DMX channels. Control 340 RGB fixtures
- USB & Ethernet connectivity for programming and control

Power Supply

7 VDC (included)

Programmability

PC, Mac, Tablet, Smartphone

Output Signal

DMX512 (1024 channels)

Color Parameters

- Brightness
- Saturation
- Speed of color changing sequence
- Fading / dimming / brightness

LineLED LL Series Wet Tube | IP65, IP67, & IP68 rated Linear LED strip - 24V

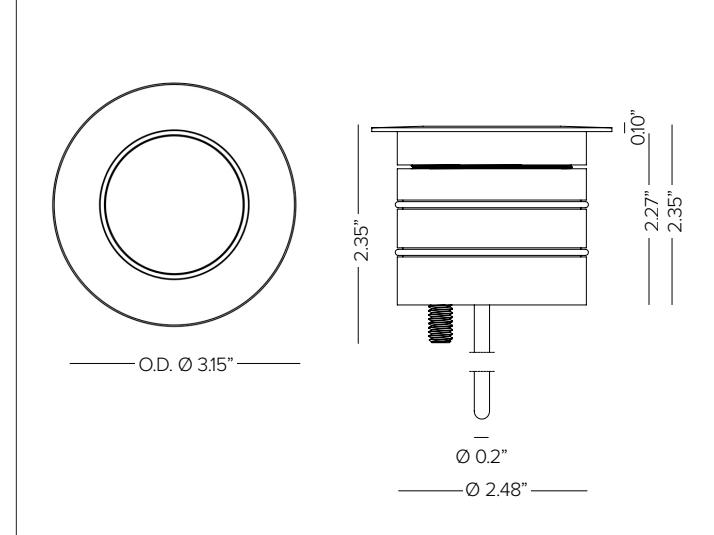


Legacy Conversion

Legacy LL Tapes			NEW LL Tapes		
	lm/ft	W/ft		lm/ft	W/ft
LL18WET-T	121	1.5	81	LL42WET-T-SO	130
LL30WET-T	190	2.5	76	LL42WET-T-HO	225
LL36WET-T	244	3.0	81	LL42WET-T-VHO	320
LL54WET-T	353	4.5	78		3.6
LLX18WET-T	371	4.9	80		88

JUPITER

Professional Compact Inground LED Fixture



JUPITER Shown in brushed natural finish.



CONCEPT

Small scale compact recessed ingrade LED fixture.

MECHANICAL CHARACTERISTICS

Housing	3.15"Dia. X 2.21"H
Materials	Milled anodized aluminum marine grade cataphoresis ^A body with Passive cooling system. AISI316L stainless steel trim ring with beveled edge and with extra clear glass lens.
Finish	Brushed Natural Bronze PVD* Black PVD*
	*Physical Vapor Deposition.
Power Connection	Pre-cabled with 2ft direct burial 18ga 2 conductor cable for connection to remote power supply.
Mounting	Semi-flush recessed ingrade / surface wall mounting installation sleeve required, see available options.
Weight	1.1lbs
Protection	IP68 ^B / IP69K
Impact	IK10
Load	Resistant to static loads up to 4,496lbs in flush mounted cement and pavement installations.

CERTIFICATIONS

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

WARRANTY

5 year limited warranty

^AFixture body complete with marine grade cataphoresis suitable for use in marine grade environments. Stainless steel trim will need to be maintained and cleaned regularly to avoid mineral deposits. Not to be in direct contact with salt or corrosive agents for extended periods of time.

^B Temporary immersion up to 24 hours at a max depth of 2 meters. Installation of fixture requires proper drainage to prevent any standing water. Should not be used for permanent submersion.

ELECTRICAL CHARACTERISTICS

Power Supply	Remote Class 2 120V-277V AC power supply required, see available options.
Wattage	7W
Voltage	24V DC

SOURCE

High efficiency LED Chip on Board.

TM30	CCT (Nominal)	CRI	R _f	R _g	SDCM
	2700K	90	92	99	2
	3000K	90	92	101	2
	3500K	90	90	98	2
	4000K	90	90	98	2

OPTIC

Precision optic system with PMMA lenses for the SP, FL and WFL versions with a light cut system integrated into the front glass.

Beam	SP 21°	FL 39°	WFL 53°
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Delivered Lumens	2700K	509Lm	526Lm	503Lm
	3000K	532Lm	550Lm	526Lm
	4000K	548Lm	567Lm	542Lm

For 3500K lumen values use multiplier of 1.02 from 3000K.

Efficacy	93Lm/W max. Refer to photometric graphs for specific values.
Lifetime	L80/B10 >100,000hrs at max T _q +25°C
Photobiological Classification	Low risk safety RG1

JUPITER

SPECIFICATION INFORMATION

JU	2	3	4	5	6	7	8	9	/	10	/	11
Ex: JURSPL12724SSLV / DMLE301242UD / 1US3175M												
									REQUIRED		OPTIONAL	
1 - PRODUCT CODE	2 - DRIVER	3 - OPTIC	4 - WATTAGE	5 - KELVIN	6 - VOLTAGE	7 - TRIM	8 - OPTICAL ACCESSORY					
JU — JUPITER	R — Remote Driver	SP — SP 21° FL — FL 39° WF — WFL 53° DV — Direct View	L1 — 7W	27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K	24 — 24V DC	SS — Natural BZ — Bronze BK — Black						
9 - POWER SUPPLY	10 - INSTALLATION	11 - INSTALLATION ACCESSORIES										
Power Supply See section for details	3" Installation Sleeve See section for details 6" Installation Sleeve See section for details 9" Installation Sleeve See section for details	Sleeve mounting HUB See section for details Installation J-box See section for details										

^c Not compatible with DV optic.^d Optical accessories are factory pre-installed integral to the fixture.

For applicable quick ship items, see model configurations listed below. Lead time for quick ship fixtures is 1-2 weeks from processed PO date. Consult factory for quantities of over 20pcs to confirm lead time.

 QS QSJURSPL13024SSLV + 1US3175M + 1US3175HB + 1US317BX + DMLE301242UD / DMLE601242UD / DMLE961242UD
QSJURFL13024SS + 1US3175M + 1US3175HB + 1US317BX + DMLE301242UD / DMLE601242UD / DMLE961242UD

FINISHES



OPTIC VERSIONS

NO OPTIC ACCESSORY



INTEGRAL HONEYCOMB LOUVER



INTEGRAL ASYMMETRIC LOUVER



DIRECT VIEW



JUPITER

8 - POWER SUPPLY (REQUIRED)

ENCLOSURE								
Part No.	Wattage	Control	Dim Range	Rating	In / Out Voltage	Certification	Dimensions (Enclosure)	Description
DMLE301242UD	30W	MLV / ELV / 0-10V / TRIAC	10%	NEMA3R	120-277V / 24V	UL Class 2	4.47" X 6.79" X 1.38"	EMCOD MLE-UD electronic driver with wiring compartment.
DELV30124DJBX	30W	0-10V	0.1%	IP65	120-277V / 24V	UL Class 2	12.1" X 2.4" X 1.4"	Magnitude SOLIDrive electronic driver with built in junction box.
DMLE601242UD	60W	MLV / ELV / 0-10V / TRIAC	10%	NEMA3R	120-277V / 24V	UL Class 2	4.47" X 6.79" X 1.38"	EMCOD MLE-UD electronic driver with wiring compartment.
DELV60124DJBX	60W	0-10V	0.1%	IP65	120-277V / 24V	UL Class 2	12.1" X 2.4" X 1.4"	Magnitude SOLIDrive electronic driver with built in junction box.
DMLE961242UD	96W	MLV / ELV / 0-10V / TRIAC	10%	NEMA3R	120-277V / 24V	UL Class 2	5.16" X 7.73" X 1.54"	EMCOD MLE-UD electronic driver with wiring compartment.
DELV96124DJBX	96W	0-10V	0.1%	IP65	120-277V / 24V	UL Class 2	12.1" X 2.4" X 1.4"	Magnitude SOLIDrive electronic driver with built in junction box.
DMLE1922242UD	2X96W	MLV / ELV / 0-10V / TRIAC	10%	NEMA3R	120-277V / 24V	UL Class 2	5.04" X 10.94" X 1.81"	EMCOD MLE-UD electronic driver with wiring compartment.
DMLE2882242UD	3X96W	MLV / ELV / 0-10V / TRIAC	10%	NEMA3R	120-277V / 24V	UL Class 2	5.04" X 10.94" X 1.81"	EMCOD MLE-UD electronic driver with wiring compartment.

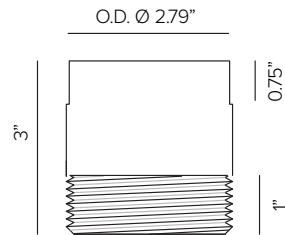
STANDALONE								
Part No.	Wattage	Control	Dim Range	Rating	In / Out Voltage	Certification	Dimensions (Standalone)	Description
DELV30124D	30W	0-10V	0.1%	IP65	120-277V / 24V	UR Class 2	7.5" X 2.4" X 1.4"	Magnitude SOLIDrive electronic standalone driver. UL listed enclosure provided by others.
DELV60124D	60W	0-10V	0.1%	IP65	120-277V / 24V	UR Class 2	7.5" X 2.4" X 1.4"	Magnitude SOLIDrive electronic standalone driver. UL listed enclosure provided by others.
DELV96124D	96W	0-10V	0.1%	IP65	120-277V / 24V	UR Class 2	7.5" X 2.4" X 1.4"	Magnitude SOLIDrive electronic standalone driver. UL listed enclosure provided by others.

MAX FIXTURES PER DRIVER					MAX CABLE DISTANCE							
Fixture Wattage	Driver Wattage				Fixture Wattage	No. Fixtures	Load	18 AWG	16 AWG	14 AWG	12 AWG	
	30W	60W	96W	2 x 96W	3 x 96W							
7W	3	6	10	10+10	10+10+10	3	≤21W	55ft	85ft	140ft	220ft	
						7W	6	≤42W	31ft	50ft	80ft	125ft
						10	≤70W	19ft	30ft	48ft	75ft	

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

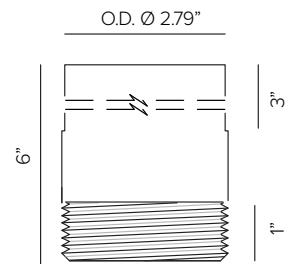
JUPITER

10 – INSTALLATION (REQUIRED)



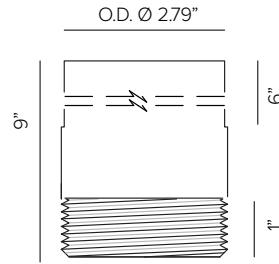
3" installation sleeve. Tube with threaded bottom end for height adjustment up to 3/4" for precision mounting.

Part No. **1US3175M**



6" installation sleeve. Tube with threaded bottom end for height adjustment up to 3/4" for precision mounting. Can be used with inground paver installation. 2" field cut allowance.

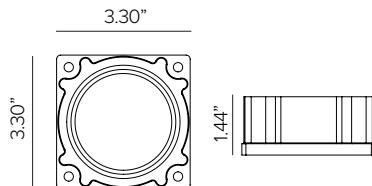
Part No. **1US3175L**



9" installation sleeve. Tube with threaded bottom end for height adjustment up to 3/4" for precision mounting. Can be used with inground paver installation. 2" field cut allowance.

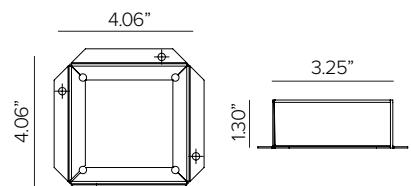
Part No. **1US3175X**

11 – INSTALLATION ACCESSORIES (OPTIONAL)



HUB with 3/4" height adjustability for field leveling mounted on 3-3/4" square j-box cover. Optional for use of sleeve only.

Part No. **1US3175HB**

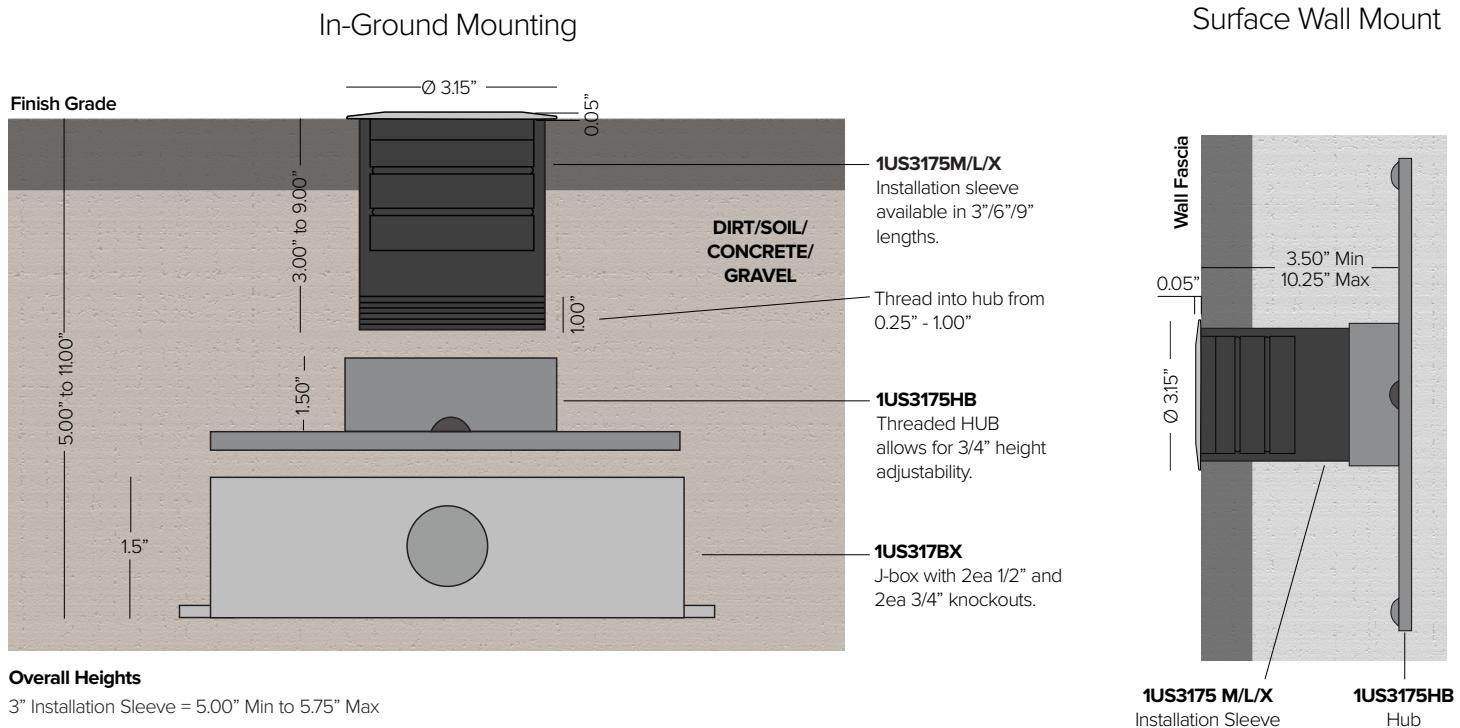


3-1/2" x 3-4/4" installation J-box. Aluminum with 2ea 1/2" and 2ea 3/4" knockouts. Optional for use with HUB only.

Part No. **1US317BX**

JUPITER

INSTALLATION DIAGRAMS

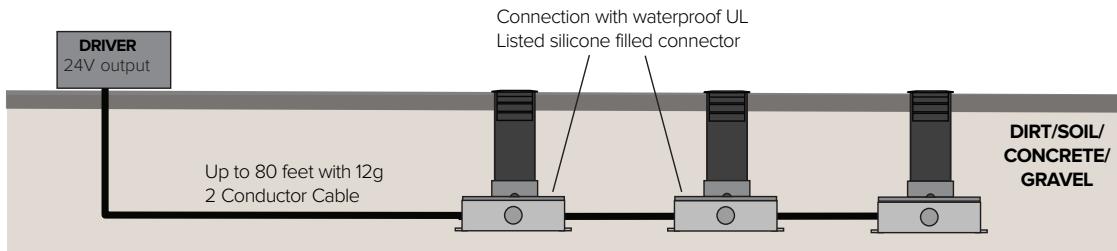
**Overall Heights**

3" Installation Sleeve = 5.00" Min to 5.75" Max

6" Installation Sleeve = 8.00" Min to 8.75" Max

9" Installation Sleeve = 11.00" Min to 11.75" Max

WIRING DIAGRAM



NOTE: Low voltage outdoor landscape wiring to be installed by a certified electrician per local building requirements, max 4A 96W circuit.

JUPITER

PHOTOMETRY

IES FILES WATTAGE AND EFFICIENCY CALCULATIONS BASED WITH SUPPLIED DRIVER

SPOT



FLOOD



WIDE FLOOD



JUPITER

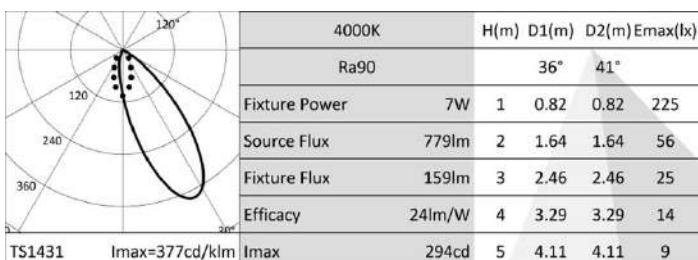
PHOTOMETRY

IES FILES WATTAGE AND EFFICIENCY CALCULATIONS BASED WITH SUPPLIED DRIVER

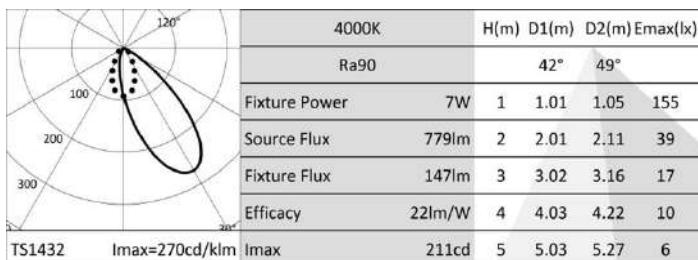
SPOT ASYMMETRIC LOUVER



FLOOD ASYMMETRIC LOUVER



WIDE FLOOD ASYMMETRIC LOUVER

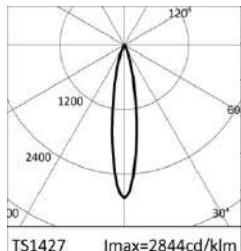


JUPITER

PHOTOMETRY

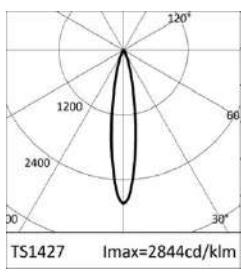
IES FILES WATTAGE AND EFFICIENCY CALCULATIONS BASED WITH SUPPLIED DRIVER

SPOT HONEYCOMB LOUVER



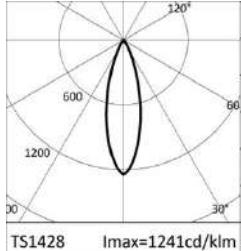
	2700K	H(m)	D(m)	Emax(lx)
Ra90			18°	
Fixture Power	7W	1	0.32	2056
Source Flux	723lm	2	0.63	514
Fixture Flux	319lm	3	0.95	228
Efficacy	48lm/W	4	1.27	129
TS1427 Imax	2844cd/klm	Imax	2056cd	5 1.59 82

	3000K	H(m)	D(m)	Emax(lx)
Ra90			18°	
Fixture Power	7W	1	0.32	2150
Source Flux	756lm	2	0.63	537
Fixture Flux	334lm	3	0.95	239
Efficacy	50lm/W	4	1.27	134
TS1427 Imax	2844cd/klm	Imax	2150cd	5 1.59 86



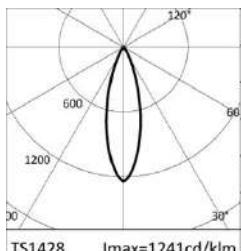
	4000K	H(m)	D(m)	Emax(lx)
Ra90			18°	
Fixture Power	7W	1	0.32	2215
Source Flux	779lm	2	0.63	554
Fixture Flux	344lm	3	0.95	246
Efficacy	51lm/W	4	1.27	138
TS1427 Imax	2844cd/klm	Imax	2215cd	5 1.59 89

FLOOD HONEYCOMB LOUVER



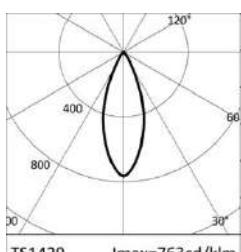
	2700K	H(m)	D(m)	Emax(lx)
Ra90			29°	
Fixture Power	7W	1	0.52	897
Source Flux	723lm	2	1.05	224
Fixture Flux	286lm	3	1.57	100
Efficacy	43lm/W	4	2.09	56
TS1428 Imax	1241cd/klm	Imax	897cd	5 2.61 36

	3000K	H(m)	D(m)	Emax(lx)
Ra90			29°	
Fixture Power	7W	1	0.52	938
Source Flux	756lm	2	1.05	235
Fixture Flux	299lm	3	1.57	104
Efficacy	45lm/W	4	2.09	59
TS1428 Imax	1241cd/klm	Imax	938cd	5 2.61 38



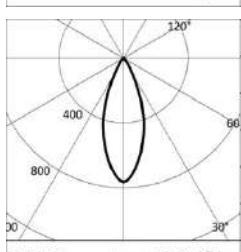
	4000K	H(m)	D(m)	Emax(lx)
Ra90			29°	
Fixture Power	7W	1	0.52	967
Source Flux	779lm	2	1.05	242
Fixture Flux	308lm	3	1.57	107
Efficacy	46lm/W	4	2.09	60
TS1428 Imax	1241cd/klm	Imax	967cd	5 2.61 39

WIDE FLOOD HONEYCOMB LOUVER



	2700K	H(m)	D(m)	Emax(lx)
Ra90			38°	
Fixture Power	7W	1	0.68	552
Source Flux	723lm	2	1.37	138
Fixture Flux	248lm	3	2.05	61
Efficacy	37lm/W	4	2.73	34
TS1429 Imax	763cd/klm	Imax	552cd	5 3.41 22

	3000K	H(m)	D(m)	Emax(lx)
Ra90			38°	
Fixture Power	7W	1	0.68	577
Source Flux	756lm	2	1.37	144
Fixture Flux	259lm	3	2.05	64
Efficacy	39lm/W	4	2.73	36
TS1429 Imax	763cd/klm	Imax	577cd	5 3.41 23



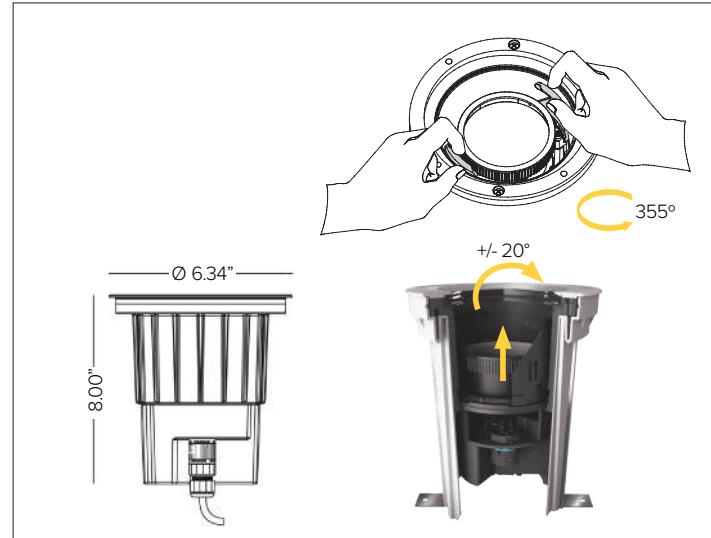
	4000K	H(m)	D(m)	Emax(lx)
Ra90			38°	
Fixture Power	7W	1	0.68	595
Source Flux	779lm	2	1.37	149
Fixture Flux	267lm	3	2.05	66
Efficacy	40lm/W	4	2.73	37
TS1429 Imax	763cd/klm	Imax	595cd	5 3.41 24

KEPLERO MINI ZOOM

Professional Inground LED Fixture



KEPLERO® MINI ZOOM with brushed natural trim and clear lens



CONCEPT

Professional fully adjustable landscape inground fixture. As landscaping matures and changes overtime the zoom optic can be manually adjusted to adapt with the ever changing landscape conditions.

MECHANICAL CHARACTERISTICS

Housing	8"H x 6.34"Dia. Housing.
Materials	Anodized marine grade cataphoresis ^A die-cast aluminum heat sink body with PVC installation sleeve. AISI316L stainless steel trim ring with beveled edge with extra clear glass lens.
Finish	Brushed Natural Bronze PVD* Black PVD*
	*Physical Vapor Deposition.
Power Connection	Provided with 4ft SJ00W 16-6 cable and DSMT anti-wicking quick disconnect to direct burial brass ingrade jbox (required, sold separately).
Functionality	Adjustable +/-20° on the vertical axis and rotated 355° on the horizontal axis with friction locking mechanism.
Mounting	Flush, semi-flush or raised tube mountings. Installation sleeve for flush or semi-flush mountings includes optional stainless steel 'L' brackets for additional mounting support. Fixture equipped with fastening holes and stainless steel screws for attachment into installation sleeve assembly.
Weight	2.43lbs
Protection	IP68 ^B / IP69K
Impact	IK10
Load	Resistant to static loads up to 4,496lbs in flush mounted cement and pavement installations.

CERTIFICATIONS

cULus Class2 Wet Location Listed.
Tested in accordance with LM-79-08.
Compliant for California installations.
IEC 62471
RoHS3 EU 215/863

SUSTAINABILITY

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

ELECTRICAL CHARACTERISTICS

Power Supply	Integral 4/1 smart driver (Non-Dimmable / 0-10V / Reverse Phase / Forward Phase).
Wattage	14W
Voltage	Universal Voltage 120-277V AC 50/60Hz

SOURCE

High efficiency LED Chip on Board.

TM30	CCT (Nominal)	CRI	Rf	Rg	SDCM
2700K	80	82	96	2	
3000K	80	83	96	2	
3500K	80	83	95	2	
4000K	80	82	95	2	

Ra90 available upon request

OPTIC

Zoom optical system that manually slides and locks on vertical axis according to four different fixed beam positions (SP / FL / MFL / WFL).

Beam	SP 15°	FL 32°	MFL 53°	WFL 61°
Delivered Lumens	3000K 610Lm	809Lm	1045Lm	1127Lm
	4000K 626Lm	830Lm	1072Lm	1156Lm
For 2700K lumen values use multiplier of 0.96 from 3000K. For 3500K lumen values use multiplier of 1.02 from 3000K.				
Efficacy	86Lm/W max. Refer to photometric graphs for specific values.			
Lifetime	L92/B10 30,000hrs at max TA +25°C	L90/B10 50,000hrs at max TA +25°C		
Photobiological Classification	Low risk safety RG1			

WARRANTY

5 year limited warranty.

^AFixture body complete with marine grade cataphoresis suitable for use in marine grade environments. Stainless steel trim will need to be maintained and cleaned regularly to avoid mineral deposits. Not to be in direct contact with salt or corrosive agents for extended periods of time.

^BTemporary immersion up to 24 hours at a max depth of 2 meters. Installation of fixture requires proper drainage to prevent any standing water. Should not be used for permanent submersion.

KEPLERO MINI ZOOM

SPECIFICATION INFORMATION

KPLM	1	2	3	4	5	/	6	7	8	/	9
Ex: KPLM41ZML227/1E2525/1DU2521/1DU2530											

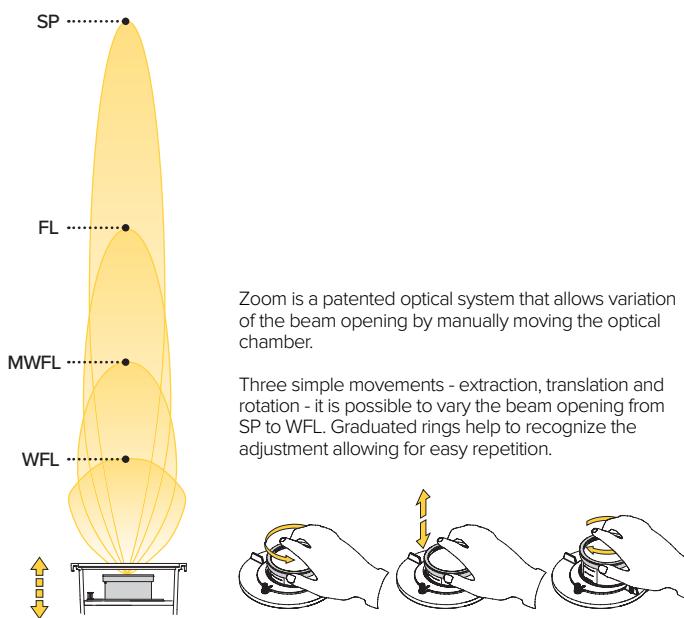
1 - PRODUCT CODE	2 - DRIVER	3 - TYPE	4 - WATTAGE	5 - KELVIN
KPLM — KEPLERO MINI	41 — 4/1 Smart Dimming (Non-Dimming / 0-10V / Reverse Phase / Forward Phase)	ZM — Zoom	L2 — 14W	27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K
6 - TRIM	7 - INSTALLATION	8 - INSTALLATION ACCESSORIES	9 - OPTICAL ACCESSORIES	
Round Trim Ring See section for details	Flush Mount Sleeve See section for details	Torx Key See section for details	Blade of Light Linear Spread Lens See section for details	
Square Trim Ring See section for details	Raised Tube See section for details	Fixture Removal Tool See section for details	Anti Glare Honeycomb Louver See section for details	
	Junction Box See section for details	Glass Removal Tool See section for details	Half Moon Anti Glare Shutter See section for details	
			Chromatic Filter See section for details	

For applicable quick ship items, see model configurations listed below. Lead time for quick ship fixtures is 1-2 weeks from processed PO date. Consult factory for quantities of over 20pcs to confirm lead time.



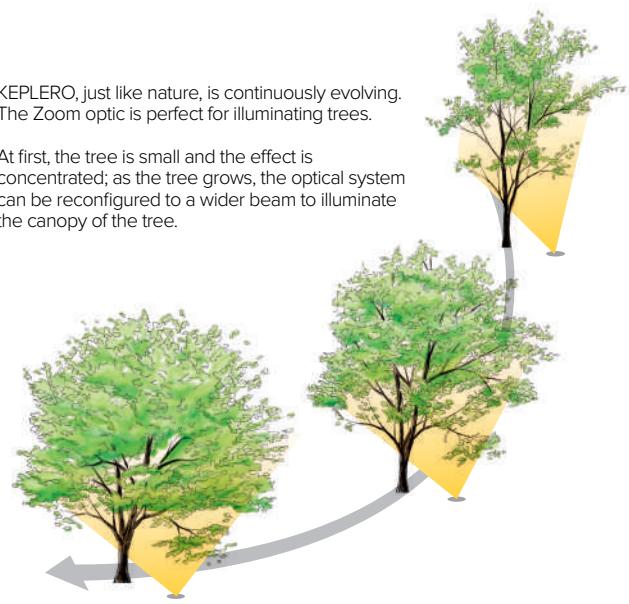
QS KSKPLM41ZML230 + 1E2525 + 1DU2521 + 1DU2530

OPTICAL SYSTEM



KEPLERO, just like nature, is continuously evolving. The Zoom optic is perfect for illuminating trees.

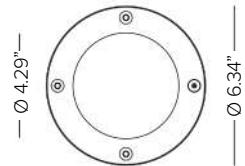
At first, the tree is small and the effect is concentrated; as the tree grows, the optical system can be reconfigured to a wider beam to illuminate the canopy of the tree.



KEPLERO MINI ZOOM

6 - TRIM (REQUIRED)

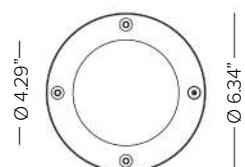
ROUND TRIM RING



Round stainless steel (AISI316L) decorative ring. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish Brushed Natural Bronze PVD Black PVD

Part No. **1E2525** **1DU2525B** **1DU2525K**

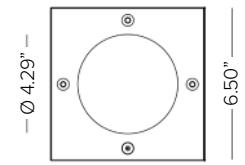


Round stainless steel (AISI316L) decorative ring with half frosted glass. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish Brushed Natural Bronze PVD Black PVD

Part No. **1DU2525E** **1DU2525BE** **1DU2525KE**

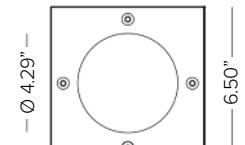
SQUARE TRIM RING



Square stainless steel (AISI316L) decorative ring. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish Brushed Natural

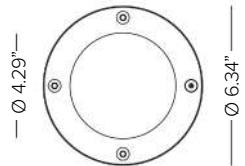
Part No. **1E2526**



Square stainless steel (AISI316L) decorative ring. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish Brushed Natural

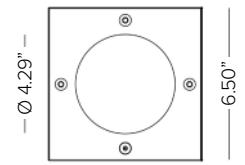
Part No. **1DU2526E**



Round stainless steel (AISI316L) decorative ring with anti-slip glass. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish Brushed Natural Bronze PVD Black PVD

Part No. **1DU2525A** **1DU2525BA** **1DU2525KA**



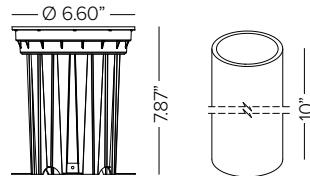
Square stainless steel (AISI316L) decorative ring. 10mm thick extra clear protective glass. Silicone gasket. Tamper proof (AISI316L) Torx screws.

Finish Brushed Natural

Part No. **1DU2526A**

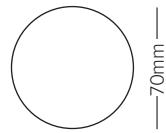
KEPLERO MINI ZOOM

7 - INSTALLATION (REQUIRED)

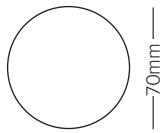


KEPLERO MINI ZOOM

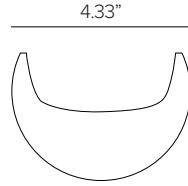
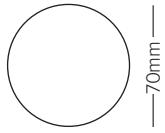
9 - OPTICAL ACCESSORIES (OPTIONAL)

MAXIMUM OF ONE OPTICAL FILTER OR LOUVER ACCESSORY PER FIXTURE

'Blade of Light' linear spread lens. Parallel ribbed glass.

Part No. **1T1708**

Anti-glare honeycomb louver with lacquered metal structure.

Finish Deep BlackPart No. **1T1711**Integral half moon anti glare shutter. **Can be used as one per fixture with a filter or louver, not considered as part of the maximum optical accessories.**Finish Deep BlackPart No. **1E2523**

Tone filter. Glass filter to vary the color temperature of light.

Finish Peach Tone Cold Tone Gold Tone

Part No. **1T1759** **1T1777** **1T1786**

KEPLERO MINI ZOOM

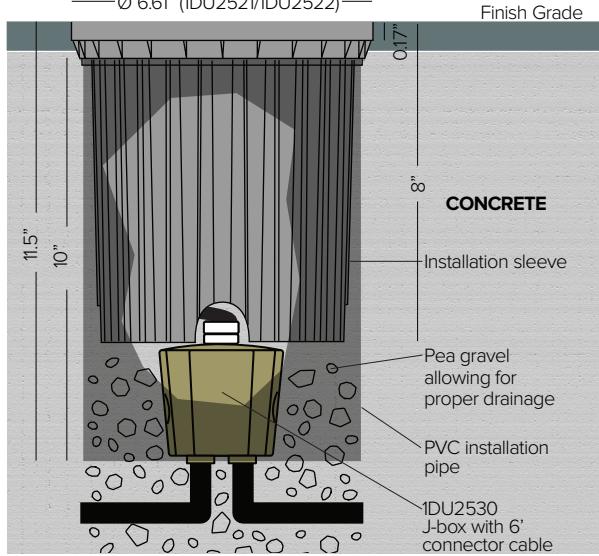
INSTALLATION DIAGRAM

CONCRETE POUR APPLICATION



Flush Mount Sleeve Assembly
1DU2521 and 1DU2522 Sleeves

— Ø 6.61" (1DU2521/1DU2522) —

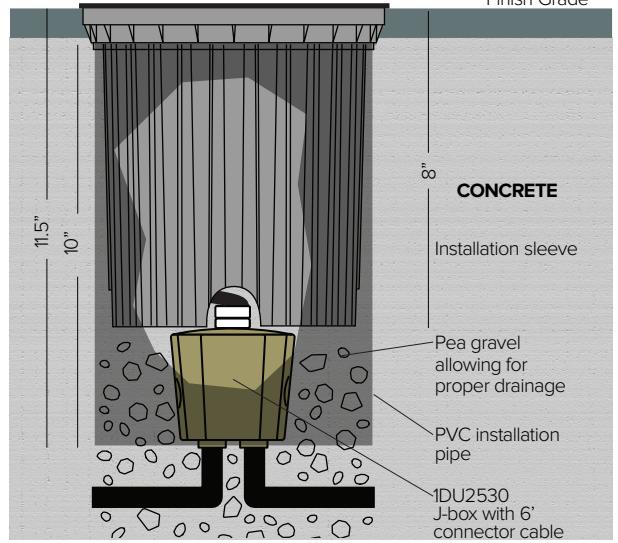


Semi-Flush Mount Sleeve Assembly
1DU2521 Sleeve Only

— Ø 6.34" (1DU2521) —

Beveled trim ring 0.08"H

Finish Grade

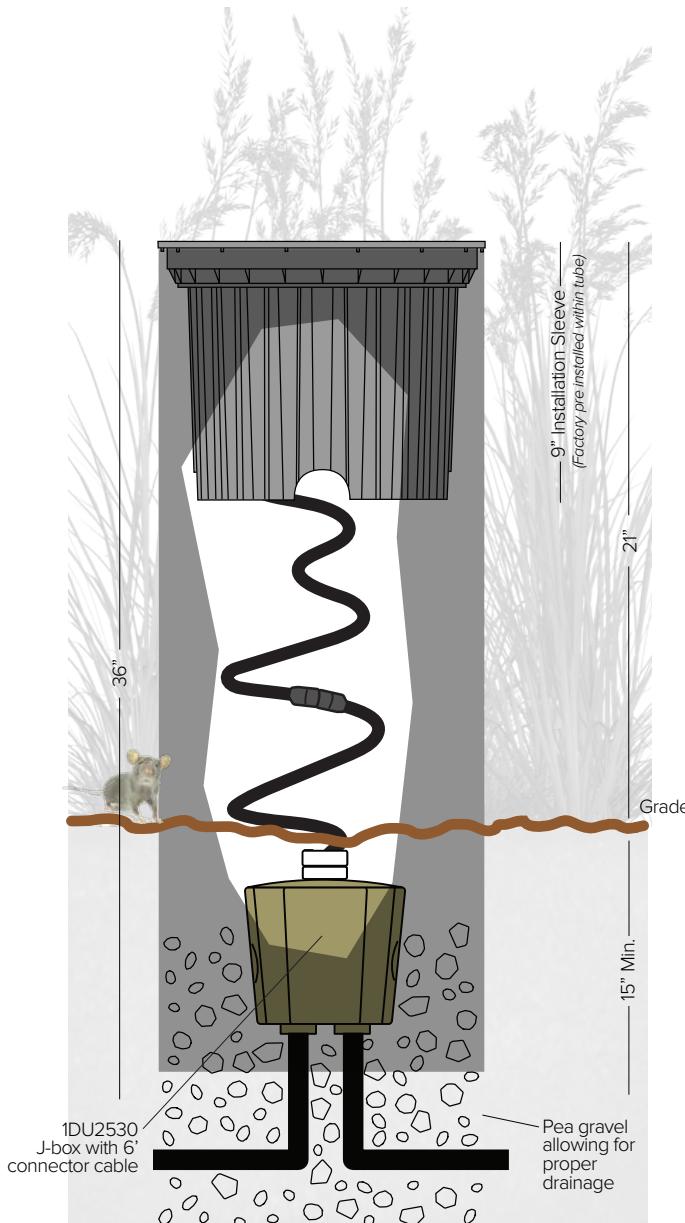


KEPLERO MINI ZOOM

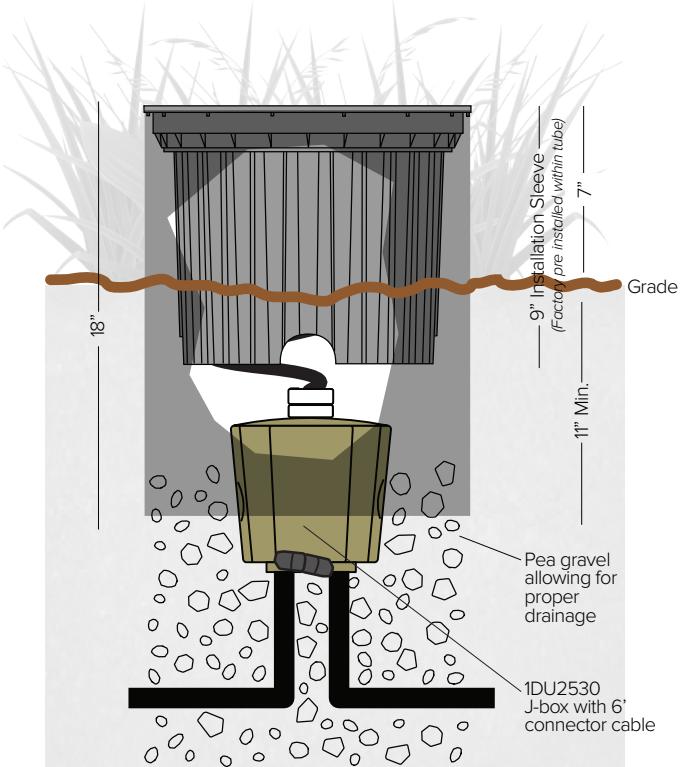
INSTALLATION DIAGRAM

LANDSCAPE APPLICATION

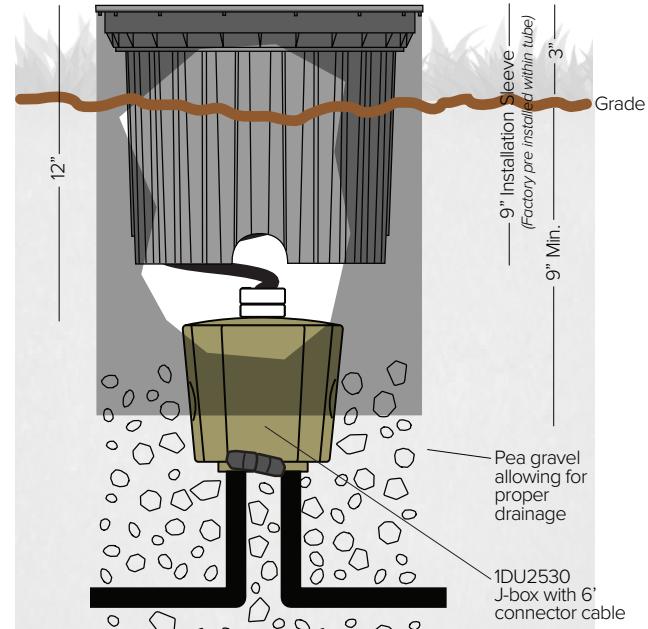
RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Landscape Installation
1DU4344 with Round Trim ONLY

RAISED TUBE INSTALLATION ASSEMBLY

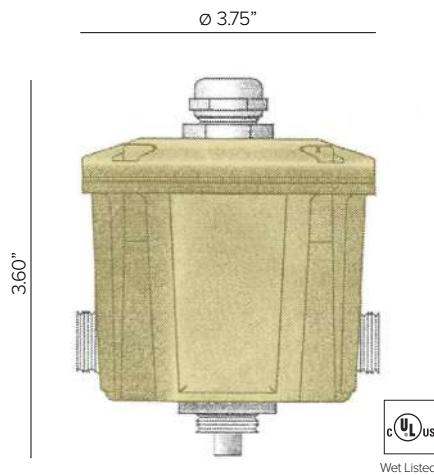
Recommended for Ground Level Installation
1DU434418 with Round Trim ONLY

RAISED TUBE INSTALLATION ASSEMBLY

Recommended for Turf Installation
1DU434412 with Round Trim ONLY

KEPLERO MINI ZOOM

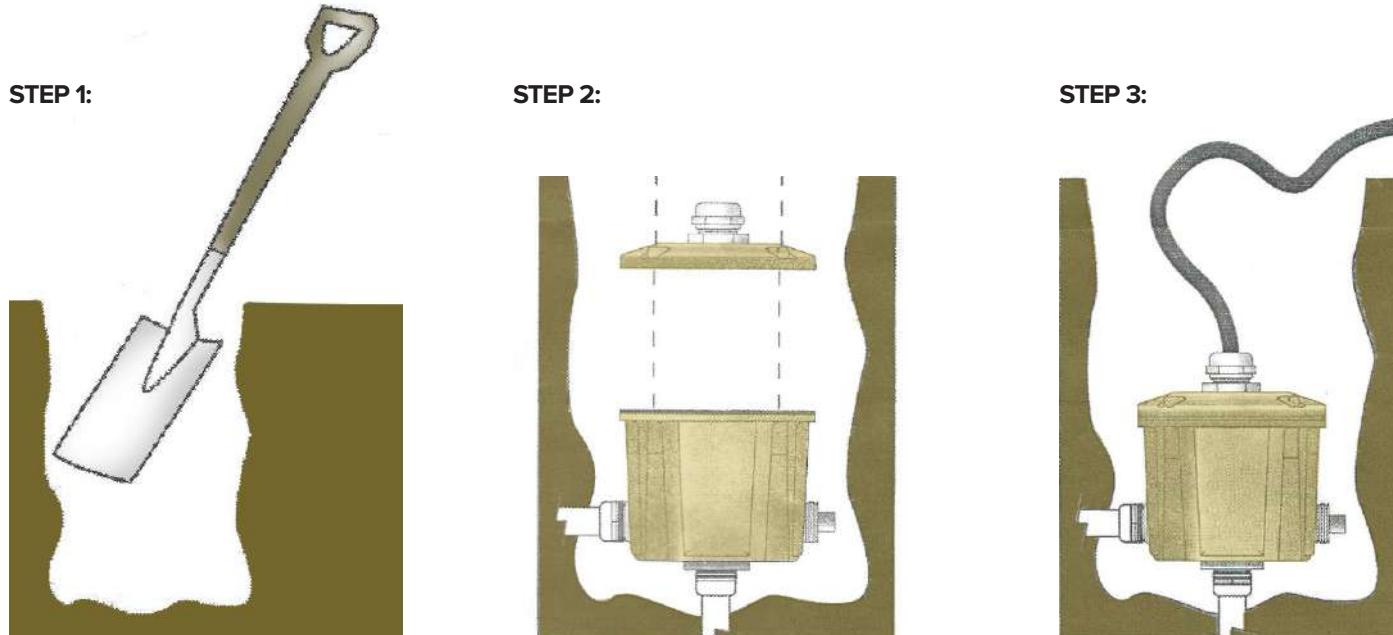
INSTALLATION DIAGRAM - 1DU2530 J-Box



Brass junction box is supplied with the following components:

- (4) $\frac{3}{4}$ " side/bottom NPT holes
- (4) $\frac{1}{2}$ " reduction NPT adapters
- (2) $\frac{1}{2}$ " cap plugs

NOTE: Box fill size = 15.94 IN³



Dig a hole large enough to accommodate the junction box.

Connect brass junction box to conduit system. Seal conduit entries inside junction box with a good grade RTV sealant per sealant manufacturer's instructions.

Note: Drainage must be in place below junction box.

Seal threads. Tighten locking screw on bottom of cover. Connect all wires observing polarity (i.e. green-to-ground, white-to-common, and black-to-voltage). Provided with $\frac{1}{2}$ " strain relief.

KEPLERO MINI ZOOM

PHOTOMETRY

SPOT



FLOOD

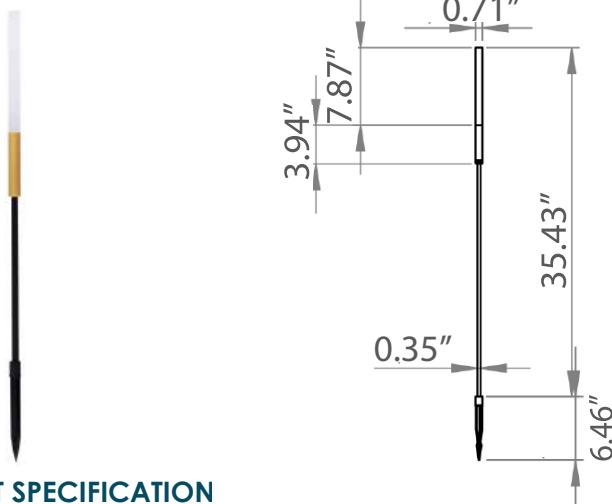


MEDIUM WIDE FLOOD



WIDE FLOOD



**SBBL36****36" BAMBOO LIGHT****PRODUCT SPECIFICATION**

Diffuser Base Material	Aluminium	LED Type	NICHIA
Diffuser Base Finish	Glossy Gold	Power Consumption	2W
Stem Material	Brass	Input Voltage	12VAC 50/60Hz or 12VDC
Stem Finish	Powder Coated Textured Black	Height	35.43 inches
Stake Material	Aluminium	Operating Temperature	from -4° to 149° F
Stake Finish	Powder Coated Textured Black	Color Rendering Index	>85
Diffuser	PMMA	Warranty	3 years against manufacturing defects
Binning	3 Step MacAdam	Agency Approval	CE, RoHS
Wiring	1 Meter of 2 core 0.5mm ² rubber cable		
Life Span	50,000 hours		



Standard offering of fixture is 2700K and 120° Beam Spread.

Power (W)	Available color Temperatures	Luminous Flux			IP Rating	Available Beam Angles
		3000K	4000K	6000K		
2W	2700K	110lm/W	120lm/W	130lm/W	65	120°