
Landscape Lighting

Type:

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: BK : Delta Star**Description:** Spotlight with medium flood optic (23deg)**Fixture Wattage:** 7 W**Lumen Output:** 406 lumen**Lamp CRI:** 80+**Lighting Controls:** 0-10V Dimming**Voltage:** 12 V**Fixture Finish:** Standard finish to be specified by architect**Lamp CCT:** 3000K**Assembly Code:** DS-LED-e65-MFL-A9-XXX-12-C

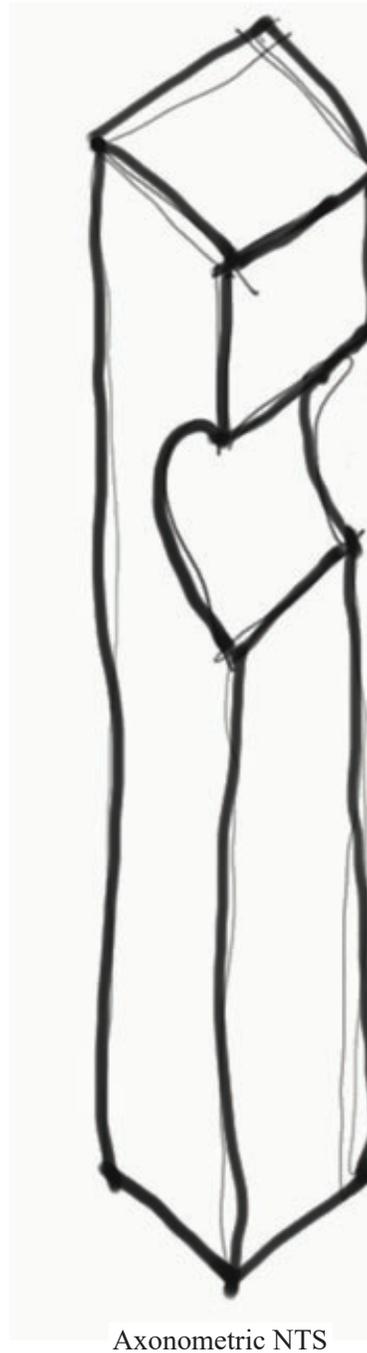
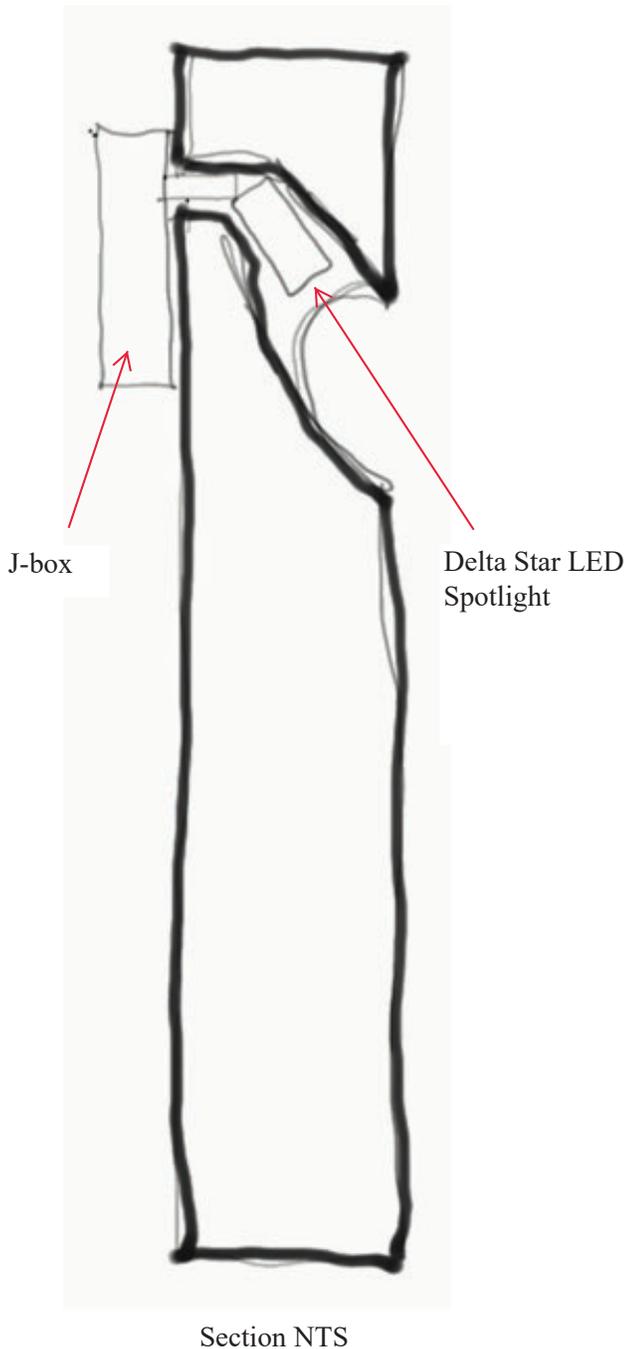
Fixture recessed into wooden bollard
Refer to following pages for fixture and J-box specification

Type:**AB01**

Page 1 of 8

Lighting Notes:

1. Fixture incorporated into timber bollard.
2. Refer to Landscape Architect for timber bollard specification.
3. Contractor to coordinate conduit routing to driver with electrical and civil scope.
4. Add Alternate - remote driver hidden in bollard.

**ARUP**Project Number: 271565
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DELTA STAR LED

IP66 RATED

DATE: PROJECT: TYPE:

CATALOG NUMBER LOGIC:



**Designed for use with LED transformer. Requires magnetic low voltage dimmer.*

***Please see Adjust-e-Lume photometry to determine desired intensity.*

****The 360SL cost is already included in the price of UPM, UPM dual, and Power Canopy.*

CATALOG NUMBER LOGIC

Example: B - DS - LED - e64 - SP - A7 - BZP - 12 - 11 - A - 360SL

MATERIAL

(Blank) - Aluminum B - Brass S - Stainless Steel

SERIES

DS - Delta Star

SOURCE

LED - with Integral Dimming Driver (25W min. load when dimmed)*

LED TYPE

e64 - 7W LED/2700K e66 - 7W LED/4000K
e65 - 7W LED/3000K e74 - 7W LED/Amber

OPTICS

NSP - Narrow Spot (13°) MFL - Medium Flood (23°)
SP - Spot (16°) WFL - Wide Flood (31°)

ADJUST-E-LUME® OUTPUT INTENSITY**

A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1

FINISH (See page 2 for full-color swatches)

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)

Also available in RAL Finishes

Brass Finishes (MAC, POL, MIT)

Stainless Steel Finishes (MAC, POL)

LENS TYPE

12 - Soft Focus 13 - Rectilinear

SHIELDING

11 - Honeycomb Baffle

CAP STYLE

A - 45°
B - 90°
C - Flush Lens
D - 45° Less Weephole (Interior use only)
E - 90° Less Weephole (Interior use only)
F - 90° with Flush Lens

OPTIONS

360SL - Knuckle Mounting System***

Type:

AB01

Page 2 of 8

B-K LIGHTING

MADE IN THE USA

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01/15/2020 SKU-739
SUB000930

ARUP

Project Number: 271565
Phone: 1 212 896 3000

DELTA STAR LED

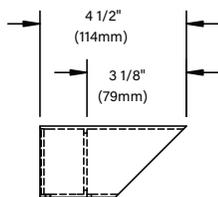
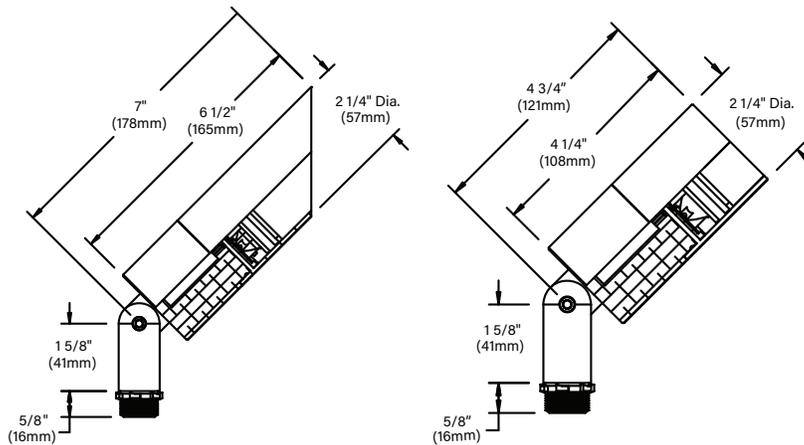
IP66 RATED

DATE: PROJECT: TYPE:

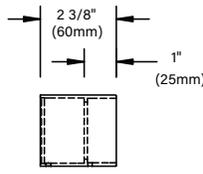
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AB01

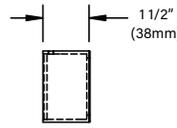
Page 3 of 8



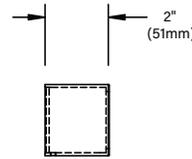
A/D CAP



B/E CAP



C CAP



F CAP

STANDARD FINISHES



Click Here to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES



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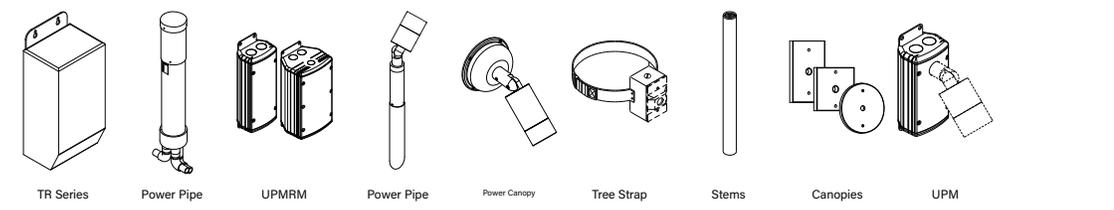
Project Number: 271565
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DELTA STAR LED IP66 RATED

DATE: _____ PROJECT: _____ TYPE: _____

Type: **AB01**
Page 4 of 8

Accessories (Configure separately)



SPECIFICATIONS

ELECTRICAL	WATTAGE	7W LED
	WIRING	XLPE, 18GA,150C, 600V, rated and certified to UL3321.
	REMOTE TRANSFORMER	For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.
PHYSICAL	MATERIALS	Furnished in copper-free aluminum (6061-T6), brass (360) or stainless steel (304).
	BODY	Unibody design with enclosed, water-proof wireway and integral heat sink is fully machined from solid billet.
	KNUCKLE	LOCK Knuckle is integral to the body and features an interior taper machined from solid billet and a second, reverse angle taper allowing full 180° vertical adjustment without the use of aim-limiting serrated teeth. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lbs. static load prior to movement for optical alignment with a 1/2" pipe thread for mounting. Optional 360SL provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.
	CAP	Fully machined and accommodates two (2) lens or louver media.
	LENS	Shock-resistant, tempered glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.
	LED	Integrated solid state system and modular design with electrical disconnects allow for easy field upgrade and maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements and exceeds ENERGY STAR* lumen maintenance requirements. LM-80 certified components. Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current (limited to <250mA non-dimming). Output, overvoltage, open-circuit, and short circuit protected. Conforms to Safety Std. C22.2 No. 250.13-12.
	DIMMING	Line voltage dimmable via magnetic low voltage dimmer with dedicated neutral conductor. Remote magnetic transformer with LED loads should be loaded to 25% of the transformer VA (watts) rated value.
	ADJUST-E-LUME	Integral electronics allow for dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed. Specify factory preset output intensity.
	OPTICS	Interchangeable OPTIKIT modules permit optical field changes. Color-code: Narrow Spot (NSP) = red; Spot (SP) = green; Medium Flood (MFL) = yellow; Wide Flood (WFL) = blue.
	HARDWARE	Tamper-resistant, stainless steel hardware. LOCK aiming screw is black oxide treated for additional corrosion resistance.
FINISH	StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Powder coat or metal finish options available for brass material and metal finish option only for stainless steel material.	
WARRANTY	5-year limited warranty.	
CERTIFICATION & LISTING	ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP66 Rated. Made in the USA with sustainable processes.	



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LAMP & DRIVER DATA (e64, e65, e66, e74)

DATE: PROJECT: TYPE:

Type:

AB01

Page 5 of 8

DRIVER DATA	Input Volts	InRush Current	Operating	Dimmable	Operation Ambient Temperature
	12VAC/DC 50/60Hz	<250mA (non-dimmed)	700mA	Magnetic Low Voltage Dimmer	-22°F-194°F (-30°C - 90°C)

BK No.	LM79 DATA			L70 DATA	OPTICAL DATA		
	CCT (Typ.)	CRI (Typ.)	Input Watts (Typ.)	Minimum Rated Life (hrs.) 70% of initial lumens (L ₇₀)	Angle	CBCP	Delivered Lumens
e64	2700K	80	7	50,000	13°	5993	456
	2700K	80	7	50,000	16°	4546	445
	2700K	80	7	50,000	23°	1726	397
	2700K	80	7	50,000	31°	1131	399
e65	3000K	80	7	50,000	13°	6131	466
	3000K	80	7	50,000	16°	4650	455
	3000K	80	7	50,000	23	1766	406
	3000K	80	7	50,000	31°	1157	409
e66	4000K	80	7	50,000	13°	6889	524
	4000K	80	7	50,000	16°	5225	511
	4000K	80	7	50,000	23°	1984	456
	4000K	80	7	50,000	31°	1300	459
e74	Amber (590nm)	~	7	50,000	~	~	~

OPTICS

Optic	Angle
NSP - Narrow Spot	13°
SP - Spot	16°
MFL - Medium Flood	23°
WFL - Wide Flood	31°

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ARUP

Project Number: 271565
Phone: 1 212 896 3000

PM1J JUNCTION BOX (SURFACE MOUNT)

ORDER FIXTURE SEPARATELY.

DATE:	PROJECT:	TYPE:
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CATALOG NUMBER LOGIC:



CATALOG NUMBER LOGIC

Example: PM1J - SM - 1 - BLW

MATERIAL

Aluminum

SERIES

PM1J - Universal Power Module 1 Junction Box

MOUNTING

SM - Surface Mount

FIXTURE MOUNTING

0 - Blank Cover (Not available with Monument Mount)

1 - Offset

2 - Center

FINISH

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)

(Also available in RAL Finishes. See submittal SUB-1439-00)

Type:

AB01

Page 6 of 8

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ARUP

Project Number: 271565

Phone: 1 212 896 3000

PM1J JUNCTION BOX (SURFACE MOUNT)

ORDER FIXTURE SEPARATELY.

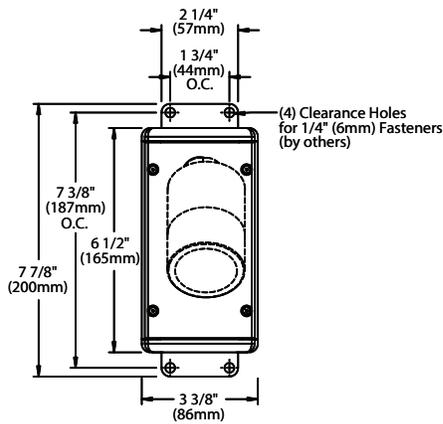
DATE:	PROJECT:	TYPE:
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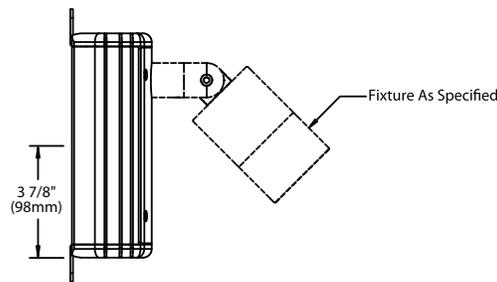
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Page 7 of 8

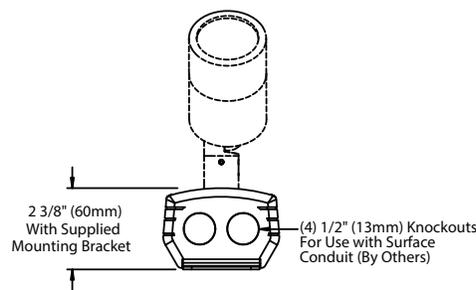
FRONT VIEW



SIDEVIEW



END VIEW



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ARUP

Project Number: 271565
Phone: 1 212 896 3000

PM1J JUNCTION BOX (SURFACE MOUNT) ORDER FIXTURE SEPARATELY.

DATE:	PROJECT:	TYPE:
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Accessories (Configure separately)

Type:

AB01

Page 8 of 8

SPECIFICATIONS

PHYSICAL	SURFACE MOUNT	For use with side entry, surface conduits. Stainless steel mounting brackets provide for direct anchor to architectural surfaces in any orientation.
	HOUSING	Copper free, aluminum extrusion with die cast end caps. Surface mounted with flow through back channel to prevent water and debris collection. Machined aluminum cover with countersunk holes for flush hardware installation. Tamper-resistant, captive, black oxide stainless steel mounting screws. Front access for ease of installation and inspection. Two (2) 1/2" NPT female conduit entries per end cap for through wiring.
	INSTALLATION TETHER	Stainless steel cable with integral loop allows cover to temporarily suspend from housing during installation to simplify wire connection and component attachment.
	PATENTED KNOCKOUTS	Four (4) 1/2" NPT, machined aluminum knockouts. High temperature, silicone 'O' Ring for water-tight seal. Patented design allows knockout to be reinserted without compromising seal integrity.
	FINISH	StarGuard, our 15-stage, chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Finish to match fixture. (specified separately).
	WARRANTY	5-year limited warranty.
	CERTIFICATION & LISTING	Certified to CAN/CSA/ANSI Standards. UL Listed. NEMA 4X / IP66 Rated Enclosure. RoHS compliant. Made in USA with sustainable processes.



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ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: Selux : Lenova LED Catenary Light
Description: Pole Light R5R Type Distribution

Fixture Wattage: 15 W
Lumen Output: 1316 lumen
Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: LALC-R5R-CL-5G150-XX-30-SP-120-DM

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

selux

Type:
AC01
Page 1 of 6

Lanova LED Catenary



Order Code:

LALC	Series	LALC Lanova LED catenary									
	Optics	R1 Type I	R2 Type II	R3 Type III	R3W Type III Wide	R4 Type IV	R5S Type V Square	R5R Type V Round	R5Q Type V Rectangular	DB Diffuse Bowl	
	Cylinder	CL Clear long	FL¹ 1/2 Frosted Long	CT Clear Tapered Cylinder						¹ DB optics only	
	Light Engine	5G150² 1316lm, 15W	5G250² 2193lm, 24W	5G350 3070lm, 33W	5G450 3948lm, 42W						² Not Available with DM, HL30, or HL50 [*] Based on R2 distribution and 3000K CCT
	Power Cord Length	XX³									
	CCT	30 3000K	40 4000K	for other CCT please consult factory							
	Finish	WH White	BK Black	BL Semi-Matte Black	BZ Bronze	SV Silver	SP Specify Premium Color				
	Voltage	120	208	240	277	347^{4,5}	480^{4,5}		⁴ Not available with HL30 or HL50 ⁵ Requires stepdown transformer, 60 Hz only		
	Options	DM Dimming (0-10V)	HL30^{6,7} Hi-Lo Switching 30-100%	HL50^{6,7} Hi-Lo Switching 50-100%	HS⁸ House Side Shield						
									⁶ 120, 240, and 277V Only ⁷ Not available with DM option ⁸ Type I, II, III, and IV only		

Lighting Notes:

1. Finish to be specified by architect.
2. Cable size and spans for structural and electrical requirements to be in accordance with manufacturer recommendations.
3. Cables to span between poles (ALP05).
4. Add alternate: Standard Finish

Product Modifications

Please list modification requirements for review by factory:

Approvals

Date: _____



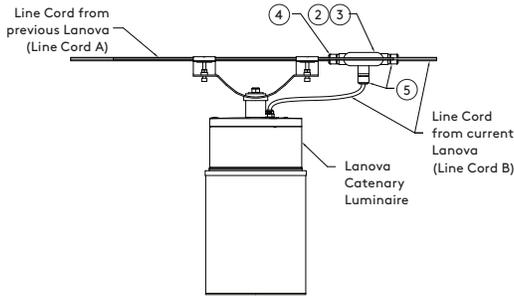
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Page 1 of 6
(Rev. 09/2020)
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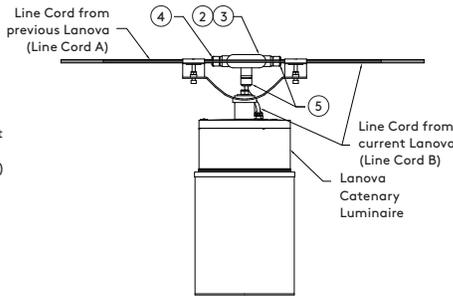
ARUP
Project Number: 271565
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Lanova LED Catenary

selux



Example A



Example B

Net Weight (19.5 lbs)
EPA = 0.68 ft²

Mid-run connector provided standard one (1) per fixture. For layouts refer to the Catenary Design Guide at selux.com

Specifications

Luminaire Housing/Hanger

Die cast aluminum housing made from low copper marine grade aluminum. Hanger bracket made from stainless steel with stainless steel hardware. Hanger Bracket provides 360° rotation and 15° tilt in either direction.

Gasketing

Continuous UV resistant silicone gasket provides weatherproofing, dust and insect control at all fixture connections.

LED Array

High Flux LEDs mounted to metal core PCB and attached to aluminum heat sink for maximum LED performance and life. CCT tolerance within a 3 step bin and provided with a minimum CRI of 80. LED light engine has a reported lumen maintenance of 93% at 50,000 hours. L70 calculated greater than 100,000 hours.

LED Optics

Clear or half frosted UV stabilized acrylic outer cylinder creates the optical chamber. Technical Optics (R1, R2, R3, R3W, R4, R5S, R5R and R5Q) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Diffuser Bowl (DB) option made of highly diffuse UV stabilized acrylic hides LED source and provides a pleasant/soft light quality.

LED Driver

LEDs are driven by RoHS compliant constant current programmable LED driver. Driver includes 0-10V dimming to 10%, meets the requirements of IP65 and includes a 5 Year warranty.

Surge Protector

Independent surge protector device designed to protect luminaire from electrical surge up to 20kA.

Power Cord

UV resistant black SJ power cord pre-installed at factory. Please specify power cord length available in 1' increments from 5' - 30'.

Finish

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

5 Year Limited LED Luminaire Warranty -

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

Listings and Ratings: Luminaire tested to IP65 and LM-79 standards. LEDs tested to LM-80 standards.

Luminaire suitable for ambient temperatures from 40°C (104°F) maximum to -40°C (-40°F) minimum.

NRTL Listed (i.e. UL, CSA)

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

Lanova LED Catenary

selux

Type:

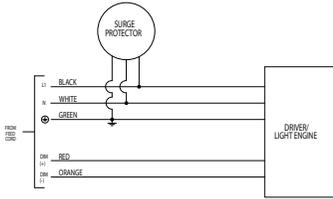
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Page 3 of 6

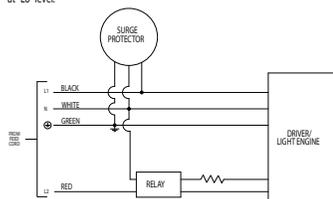
ELECTRICAL SPECIFICATIONS									
CCT	3000K								
CYLINDER	Clear Cylinder						Frosted Cylinder		
OPTICS	Asymmetric			Symmetric			Diffuse Symmetric		
Light Engine/ Electrical Specs	Delivered Lumens (lm)	Wattage (W) 120-277 / 347-480	Efficacy (lm/W)	Delivered Lumens (lm)	Wattage (W) 120-277 / 347-480	Efficacy (lm/W)	Delivered Lumens (lm)	Wattage (W) 120-277 / 347-480	Efficacy (lm/W)
5G150	1316	14.2 / 18	92.9	1488	14.2 / 18	105.0	1327	14.2 / 18	93.5
5G250	2193	23.6 / 27	92.9	2480	23.6 / 27	105.0	2211	23.6 / 27	93.5
5G350	3070	33.1 / 35	92.9	3471	33.1 / 35	105.0	3096	33.1 / 35	93.5
5G450	3948	42.5 / 44	92.9	4463	42.5 / 44	105.0	3981	42.5 / 44	93.5

Wiring

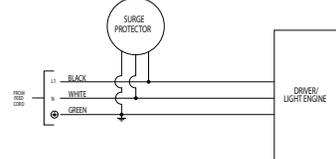
0-10V Dimming Option (DW) Wiring for 120-277V
100% light output at 10V, down to 1% light output at 0V.



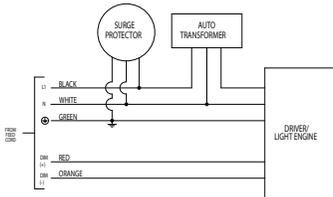
Hi-Lo Switching Option (HL30/HL50) Wiring
120/240/277V. When red is energized, light output will be at 'Lo' level.



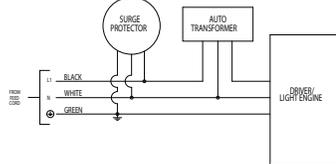
Standard Wiring for 120-277V
Standard wiring for 120-277V with no additional options.



0-10V Dimming Option (DM) Wiring for 347/480V
100% light output at 10V, down to 1% light output at 0V.



Standard Wiring for 347/480V
Standard wiring for 347/480V with no additional options.



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Page 3 of 6
(Rev. 09/2020)
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Lanova LED Catenary

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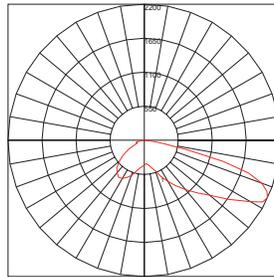
Type:

AC01

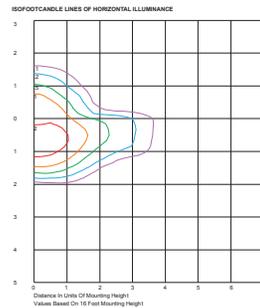
Page 4 of 6

Photometry

R1 / 42.5W LED / 3000K CCT
 Catalog #: LALC-R1-CL-X-5G450-30-XX-120
 Maximum candela of 2200 at 65° from vertical.
 Mounting Height = 16' (4.87m)
 3948 Delivered Lumens
 93 Lumens per Watt
 BI-U1-G1

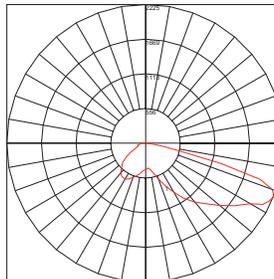


Maximum Candela = 2200 Located At Horizontal Angle = 75, Vertical Angle = 65
 # 1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)

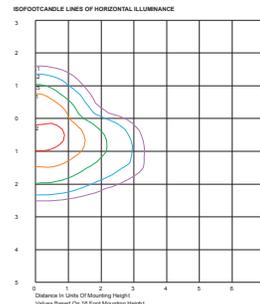


Distance in Units Of Mounting Height
 Values Based On 16 Foot Mounting Height

R2 / 42.5W LED / 3000K CCT
 Catalog #: LALC-R2-CL-X-5G450-30-XX-120
 Maximum candela of 2225 at 67.5° from vertical.
 Mounting Height = 16' (4.87m)
 3948 Delivered Lumens
 93 Lumens per Watt
 BI-U1-G1

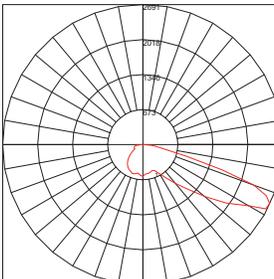


Maximum Candela = 2225.177 Located At Horizontal Angle = 65, Vertical Angle = 67.5
 # 1 - Vertical Plane Through Horizontal Angles (65 - 245) (Through Max. Cd.)

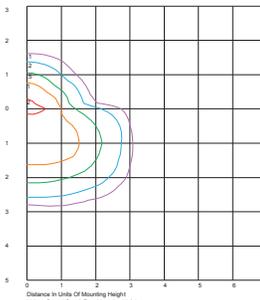


Distance in Units Of Mounting Height
 Values Based On 16 Foot Mounting Height

R3 / 42.5W LED / 3000K CCT
 Catalog #: LALC-R3-CL-X-5G450-30-XX-120
 Maximum candela of 2691 at 65° from vertical.
 Mounting Height = 16' (4.87m)
 3948 Delivered Lumens
 93 Lumens per Watt
 BI-U1-G1



Maximum Candela = 2691.332 Located At Horizontal Angle = 45, Vertical Angle = 65
 # 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)



Distance in Units Of Mounting Height
 Values Based On 16 Foot Mounting Height

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Page 4 of 6
 (Rev. 09/2020)
 LALC_ss_v4.4

ARUP
 Project Number: 271565
 Phone: 1 212 896 3000

Lanova LED Catenary

selux

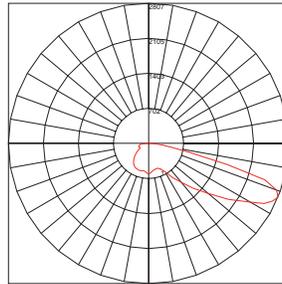
Type:

AC01

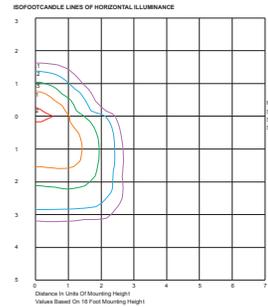
Page 5 of 6

Photometry

R4 / 42.5W LED / 3000K CCT
 Catalog #: LALC-R4-CL-X-5G450-30-XX-120
 Maximum candela of 2807 at 67.5° from vertical.
 Mounting Height = 16' (4.87m)
 3948 Delivered Lumens
 93 Lumens per Watt
 B1-U1-G1

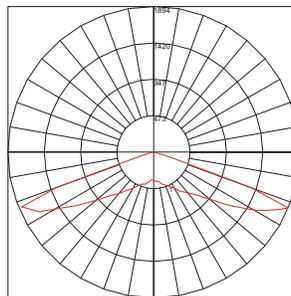


Maximum Candela = 2806.707 Located At Horizontal Angle = 35, Vertical Angle = 67.5
 # 1 - Vertical Plane Through Horizontal Angles (35 - 215) (Through Max. Cd.)

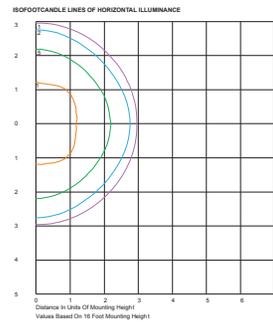


Distance in Units Of Mounting Height
 Values Based On 16 Foot Mounting Height

R5R / 42.5W LED / 3000K CCT
 Catalog #: LALC-R4R-CL-X-5G450-30-XX-120
 Maximum candela of 1894 at 67.5° from vertical.
 Mounting Height = 16' (4.87m)
 4463 Delivered Lumens
 105 Lumens per Watt
 B2-U1-G1

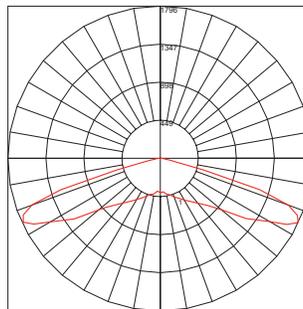


Maximum Candela = 1893.897 Located At Horizontal Angle = 0, Vertical Angle = 67.5
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

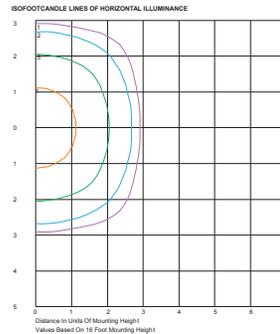


Distance in Units Of Mounting Height
 Values Based On 16 Foot Mounting Height

R5S / 42.5W LED / 3000K CCT
 Catalog #: LALC-R4S-CL-X-5G450-30-XX-120
 Maximum candela of 1796 at 65° from vertical.
 Mounting Height = 16' (4.87m)
 4463 Delivered Lumens
 105 Lumens per Watt
 B2-U1-G1



Maximum Candela = 1795.989 Located At Horizontal Angle = 45, Vertical Angle = 65
 # 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)



Distance in Units Of Mounting Height
 Values Based On 16 Foot Mounting Height

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Page 5 of 6
 (Rev. 09/2020)
 LALC_ss_v4.4

ARUP
 Project Number: 271565
 Phone: 1 212 896 3000

Lanova LED Catenary

Photometry

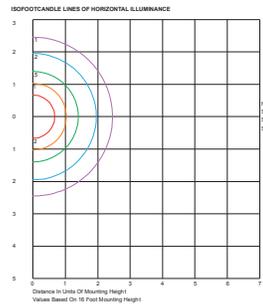
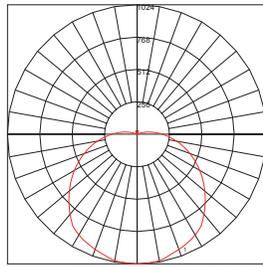
DB / 42.5W LED / 3000K CCT
 Catalog #: LALC-DB-FL-X-5G450-30-XX-120
 Maximum candela of 1024 at 2.5° from vertical.
 Mounting Height = 16' (4.87m)
 3981 Delivered Lumens
 94 Lumens per Watt
 BI-U3-G2

selux

Type:

AC01

Page 6 of 6



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Page 6 of 6
 (Rev. 09/2020)
 LALC_ss_v4.4

ARUP
 Project Number: 271565
 Phone: 1 212 896 3000

Manufacturer: BK : Delta Star
Description: Spotlight with spot optic (16deg)

Fixture Wattage: 7 W
Lumen Output: 406 lumen
Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 12 V
Fixture Finish: Standard finish to be specified by architect
Lamp CCT: 3000K
Assembly Code: DS-LED-e65-SP-A9-XXX-12-C

DELTA STAR LED

IP66 RATED

DATE: PROJECT: TYPE:

CATALOG NUMBER LOGIC:



**Designed for use with LED transformer. Requires magnetic low voltage dimmer.*

***Please see Adjust-e-Lume photometry to determine desired intensity.*

****The 360SL cost is already included in the price of UPM, UPM dual, and Power Canopy.*

CATALOG NUMBER LOGIC

Example: B - DS - LED - e64 - SP - A7 - BZP - 12 - 11 - A - 360SL

MATERIAL

(Blank) - Aluminum B - Brass S - Stainless Steel

SERIES

DS - Delta Star

SOURCE

LED - with Integral Dimming Driver (25W min. load when dimmed)*

LED TYPE

e64 - 7W LED/2700K e66 - 7W LED/4000K
e65 - 7W LED/3000K e74 - 7W LED/Amber

OPTICS

NSP - Narrow Spot (13°) MFL - Medium Flood (23°)
SP - Spot (16°) WFL - Wide Flood (31°)

ADJUST-E-LUME® OUTPUT INTENSITY**

A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1

FINISH (See page 2 for full-color swatches)

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)

Also available in RAL Finishes

Brass Finishes (MAC, POL, MIT)

Stainless Steel Finishes (MAC, POL)

LENS TYPE

12 - Soft Focus 13 - Rectilinear

SHIELDING

11 - Honeycomb Baffle

CAP STYLE

A - 45°
B - 90°
C - Flush Lens
D - 45° Less Weephole (Interior use only)
E - 90° Less Weephole (Interior use only)
F - 90° with Flush Lens

OPTIONS

360SL - Knuckle Mounting System***

Type:

ADS01

Page 1 of 7

Lighting Notes:

1. Coordinate remote driver location in nearest possible location with Landscape Architect.
2. Contractor to coordinate conduit routing to driver with electrical and civil scope.

B-K LIGHTING

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01/15/2020 SKU-739 SUB000930

ARUP

Project Number: 271565
Phone: 1 212 896 3000

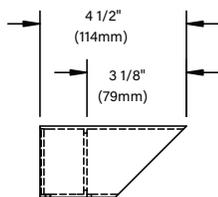
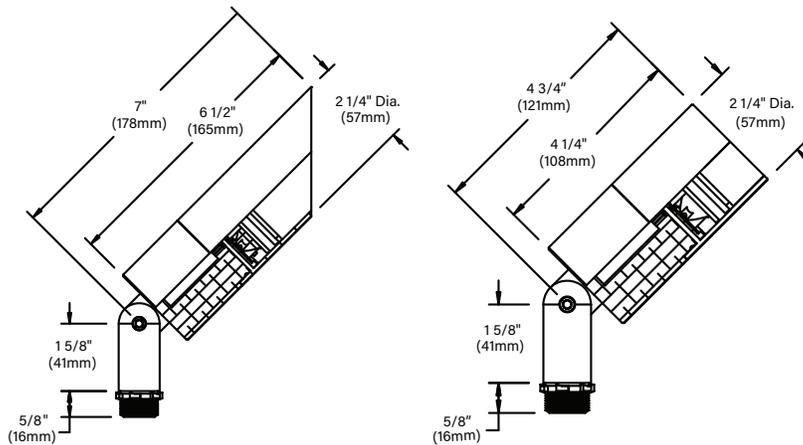
DELTA STAR LED

IP66 RATED

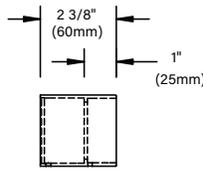
DATE: PROJECT: TYPE:

Type:
ADS01

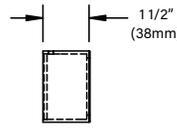
Page 2 of 7



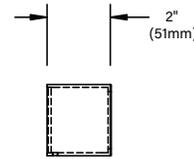
A/D CAP



B/E CAP



C CAP



F CAP

STANDARD FINISHES



Click Here to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES



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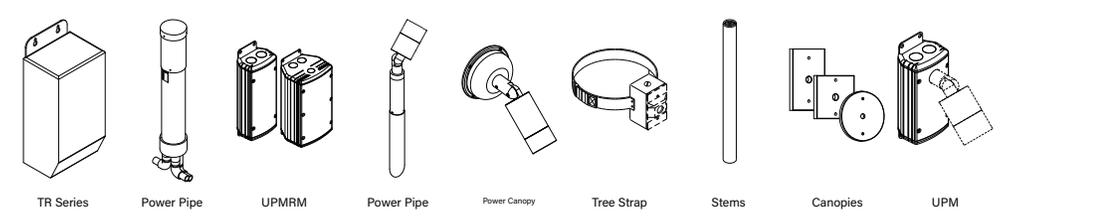
ARUP
Project Number: 271565
Phone: 1 212 896 3000

DELTA STAR LED IP66 RATED

DATE: _____ PROJECT: _____ TYPE: _____

Type:
ADS01
Page 3 of 7

Accessories (Configure separately)



SPECIFICATIONS

ELECTRICAL	WATTAGE	7W LED
	WIRING	XLPE, 18GA,150C, 600V, rated and certified to UL3321.
	REMOTE TRANSFORMER	For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.
PHYSICAL	MATERIALS	Furnished in copper-free aluminum (6061-T6), brass (360) or stainless steel (304).
	BODY	Unibody design with enclosed, water-proof wireway and integral heat sink is fully machined from solid billet.
	KNUCKLE	LOCK Knuckle is integral to the body and features an interior taper machined from solid billet and a second, reverse angle taper allowing full 180° vertical adjustment without the use of aim-limiting serrated teeth. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lbs. static load prior to movement for optical alignment with a 1/2" pipe thread for mounting. Optional 360SL provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.
	CAP	Fully machined and accommodates two (2) lens or louver media.
	LENS	Shock-resistant, tempered glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.
	LED	Integrated solid state system and modular design with electrical disconnects allow for easy field upgrade and maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements and exceeds ENERGY STAR* lumen maintenance requirements. LM-80 certified components. Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current (limited to <250mA non-dimming). Output, overvoltage, open-circuit, and short circuit protected. Conforms to Safety Std. C22.2 No. 250.13-12.
	DIMMING	Line voltage dimmable via magnetic low voltage dimmer with dedicated neutral conductor. Remote magnetic transformer with LED loads should be loaded to 25% of the transformer VA (watts) rated value.
	ADJUST-E-LUME	Integral electronics allow for dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed. Specify factory preset output intensity.
	OPTICS	Interchangeable OPTIKIT modules permit optical field changes. Color-code: Narrow Spot (NSP) = red; Spot (SP) = green; Medium Flood (MFL) = yellow; Wide Flood (WFL) = blue.
	HARDWARE	Tamper-resistant, stainless steel hardware. LOCK aiming screw is black oxide treated for additional corrosion resistance.
FINISH	StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Powder coat or metal finish options available for brass material and metal finish option only for stainless steel material.	
WARRANTY	5-year limited warranty.	
CERTIFICATION & LISTING	ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP66 Rated. Made in the USA with sustainable processes.	



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ARUP
Project Number: 271565
Phone: 1 212 896 3000

LAMP & DRIVER DATA (e64, e65, e66, e74)

DATE: PROJECT: TYPE:

Type:
ADS01
Page 4 of 7

DRIVER DATA	Input Volts	InRush Current	Operating	Dimmable	Operation Ambient Temperature
	12VAC/DC 50/60Hz	<250mA (non-dimmed)	700mA	Magnetic Low Voltage Dimmer	-22°F-194°F (-30°C - 90°C)

BK No.	LM79 DATA			L70 DATA	OPTICAL DATA		
	CCT (Typ.)	CRI (Typ.)	Input Watts (Typ.)	Minimum Rated Life (hrs.) 70% of initial lumens (L ₇₀)	Angle	CBCP	Delivered Lumens
e64	2700K	80	7	50,000	13°	5993	456
	2700K	80	7	50,000	16°	4546	445
	2700K	80	7	50,000	23°	1726	397
	2700K	80	7	50,000	31°	1131	399
e65	3000K	80	7	50,000	13°	6131	466
	3000K	80	7	50,000	16°	4650	455
	3000K	80	7	50,000	23	1766	406
	3000K	80	7	50,000	31°	1157	409
e66	4000K	80	7	50,000	13°	6889	524
	4000K	80	7	50,000	16°	5225	511
	4000K	80	7	50,000	23°	1984	456
	4000K	80	7	50,000	31°	1300	459
e74	Amber (590nm)	~	7	50,000	~	~	~

OPTICS	
Optic	Angle
NSP - Narrow Spot	13°
SP - Spot	16°
MFL - Medium Flood	23°
WFL - Wide Flood	31°

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ARUP
Project Number: 271565
Phone: 1 212 896 3000

PM1RM REMOTE LOW VOLTAGE (TRANSFORMER - SURFACE MOUNT) ORDER FIXTURE SEPARATELY.

DATE: PROJECT: TYPE:

CATALOG NUMBER LOGIC:

Type:
ADS01
Page 5 of 7



**75W max. electronic transformer allows up to 10' spacing between fixtures. For use with LED fixtures. For use with MR16 LED Lamp fixtures*

***105-300 VAC, 50/60 Hz, non-dimming. For use with LED fixtures.*

****Non-dimming.*

CATALOG NUMBER LOGIC
Example: PM1RM - SM - TRSS75 - BLP - 120
MATERIAL
Aluminum
SERIES
PM1RM - Universal Power Module 1 Remote
MOUNTING
SM - Surface Mount
TRANSFORMER TYPE
TRSS75 - 75VA Electronic Transformer*
TRe20 - TRe20 Electronic Transformer**
FINISH
Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)
Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)
(Also available in RAL Finishes. See submittal SUB-1439-00)
INPUT VOLTAGE
(Blank) - For use with TRe20 Electronic Transformer**
120 - 120 VAC (For use with TRSS75)
230 - 230 VAC*** (Electronic only, for use with TRSS75)
277 - 277 VAC*** (For use with TRSS75)

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ARUP
Project Number: 271565
Phone: 1 212 896 3000

PM1RM REMOTE LOW VOLTAGE (TRANSFORMER - SURFACE MOUNT) ORDER FIXTURE SEPARATELY.

DATE:	PROJECT:	TYPE:
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Type:
ADS01
Page 6 of 7

⚠ REMOTEWIRING

ElectronicTransformer

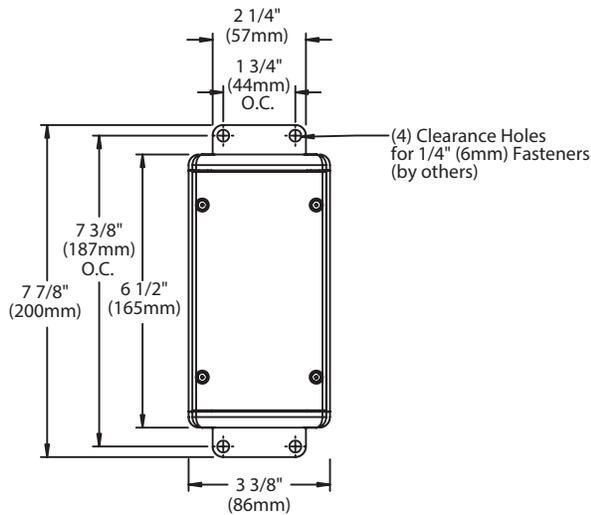
Remote transformer installations require interconnected wiring between the lamp and transformer (by others). Electronic transformers have specific wiring requirements between these components. Transformer manufacturers regularly recommend the following wiring details for such installations:

- Do not exceed 8 foot overall wiring distance using 12 gauge copper wire.

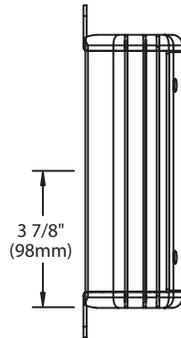
Please consult the factory through your local B-K Lighting Sales Representative prior to finalizing any installation detail utilizing remote transformer wiring.

Failure to comply with specific wiring requirements will void product warranty

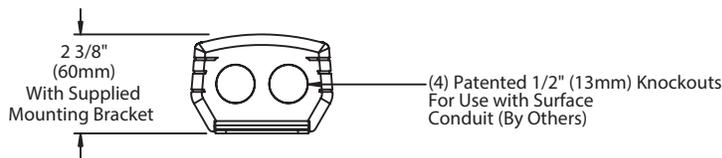
FRONT VIEW



SIDEVIEW



END VIEW



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ARUP
Project Number: 271565
Phone: 1 212 896 3000

PM1RM REMOTE LOW VOLTAGE (TRANSFORMER - SURFACE MOUNT) ORDER FIXTURE SEPARATELY.

DATE:	PROJECT:	TYPE:
-------	----------	-------

Accessories (Configure separately)

Type:
ADS01
Page 7 of 7

SPECIFICATIONS

Electrical	TRSS-75 TRANSFORMER	For use with halogen lamps. One (1) 75VA electronic low voltage transformer. 120, 230, or 277VAC primary voltage. 120V is dimmable (40W minimum load) using electronic low voltage dimmer. 10 watt minimum load (non-dimmed). 50/60Hz. 11.6VAC secondary voltage. >.93 Power Factor. <20% THD. Operating frequency >10kHz. Primary overload protection and RFI filtration. Soft start circuitry extends lamp life.
	TRe20 ELECTRONIC TRANSFORMER	One (1) 20VA electronic low voltage transformer 105-330VAC primary voltage. 1W minimum load. 20W maximum load. 50/60Hz. Non-dimming. 12VDC secondary voltage. >90% Power Factor. >80% efficiency (under full load). Inrush current limited to <5A max. Thermal shutdown with autorestart. Overload, short circuit, and open circuit protection.
PHYSICAL	SURFACE MOUNT	For use with side entry, surface conduits. Stainless steel mounting brackets provide for direct anchor to architectural surfaces in any orientation.
	HOUSING	Copper free, aluminum extrusion with die cast end caps. Surface mounted with flow through back channel to prevent water and debris collection. Machined aluminum cover with countersunk holes for flush hardware installation. Tamper-resistant, captive, black oxide stainless steel mounting screws. Front access for ease of installation and inspection. Two (2) 1/2" NPT female conduit entries per end cap for through wiring.
	INSTALLATION TETHER	Stainless steel cable with integral loop allows cover to temporarily suspend from housing during installation to simplify wire connection and component attachment.
	PATENTED KNOCKOUTS	Four (4) 1/2" NPT, machined aluminum knockouts. High temperature, silicone 'O' Ring for water-tight seal. Patented design allows knockout to be reinserted without compromising seal integrity.
	FINISH	StarGuard, our 15-stage, chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Finish to match fixture. (specified separately).
	WARRANTY CERTIFICATION & LISTING	5-year limited warranty. Certified to CAN/CSA/ANSI Standards. UL Listed. NEMA 4X / IP66 Rated Enclosure. RoHs compliant. Made in USA with sustainable processes.



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ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: Selux : Lenova LED Pole Mount
Description: 14ft Pole Light R3 Type Distribution

Fixture Wattage: 24 W
Lumen Output: 2477 lumen
Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: LAL-R3-X-CL-5G250-XX-30-SP-120-DM

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

selux

Type:
ALP01
Page 1 of 6

Lanova LED Pole Mount



Order Code: LAL - - - - -

		Pole Order Code:						
LAL	Series	LAL	Series	Height	Finish	Options		
	Lanova LED							
	Optics	R1 Type I Distribution	R2 Type II Distribution	R3 Type III Distribution	R4 Type IV Distribution	R5S Type V Square	R5R Type V Round	DB Diffuse Bowl
	Mounting	1 Single	2 Double	W Wall				
	Cylinder	CL Clear long	FL ¹ 1/2 Frosted Long	CT Clear Tapered				¹ DB optics only
	Light Engine	5G150 ² 1556lm, 15W	5G250 ² 2477lm, 24W	5G350 3468lm, 33W	5G450 4459lm, 42W			² Not Available with DM, HL30, or HL50 [*] Based on R2 distribution and 3000K CCT
	Power Cord Length	8 8'	10 10'	12 12'	14 14'	16 16'	18 18'	XX ³ XX'
	CCT	30 3000K	40 4000K					³ Add length of arm + height of pole to determine power cord length for other CCT please consult factory
	Finish	WH White	BK Black	BL Semi-Matte Black	BZ Bronze	SV Silver	SP Specify Premium Color	
	Voltage	120	208	240	277	347 ^{4,5}	480 ^{4,5}	⁴ Not available with HL30 or HL50 ⁵ Requires stepdown transformer, 60 Hz only
	Options	DM Dimming (0-10V)	HL30 ^{6,7} Hi-Lo Switching 30-100%	HL50 ^{6,7} Hi-Lo Switching 50-100%	HS* House Side Shield			⁶ 120, 240, and 277V Only ⁷ Not available with DM option [*] Not available with R5S, R5R, or DB optics

Lighting Notes:

1. Finish to be specified by architect.
2. Contractor to coordinate pole mounting with civil scope and other services according to manufacturer recommendations.
3. Modifications include (a) Straight Arms (b) power receptacles hidden in base (c) one circuit per pole.
4. Landscape Architect to Specify Base Cover.
5. Height of pole to be 14'.
6. Refer to Landscape Architect's drawing to determine single or double mount.

Product Modifications

Please list modification requirements for review by factory:

Straight arm, power receptacle hidden in base - one circuit per pole

Approvals

Date: _____



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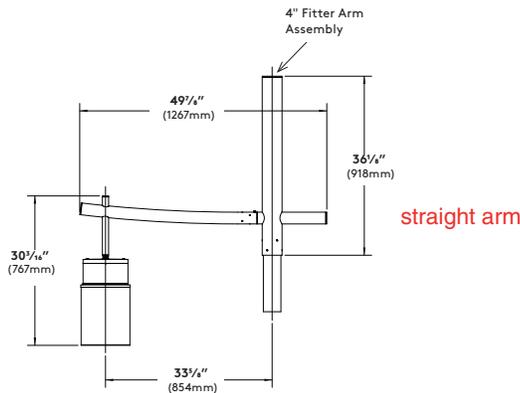
Page 1 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

selux

Type:
ALP01
Page 2 of 6



Net Weight (19.5 lbs)
EPA = 0.68 ft²

Specifications

Luminaire Housing

Die cast aluminum housing made from low copper marine grade aluminum.

Gasketing

(not shown) Continuous UV resistant silicone gasket provides weatherproofing, dust and insect control at all fixture connections.

LED Array

(not shown) High Flux LEDs mounted to metal core PCB and attached to aluminum heat sink for maximum LED performance and life. CCT tolerance within a 3 step bin and provided with a minimum CRI of 80. LED light engine has a reported lumen maintenance of 93% at 50,000 hours. L70 calculated greater than 100,000 hours.

LED Optics

Clear half frosted, or tapered UV stabilized acrylic outer cylinder creates the optical chamber. Technical Optics (R1, R2, R3, R4, R5S and R5R) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Diffuser Bowl (DB) option made of highly diffuse UV stabilized acrylic hides LED source and provides a pleasant/soft light quality.

LED Driver

LEDs are driven by RoHS compliant constant current programmable LED driver. Driver includes 0-10V dimming to 10%, meets the requirements of IP65 and includes a 5 Year warranty.

Surge Protector

(not shown) Independent surge protector device designed to protect luminaire from electrical surge up to 20kA.

Power Cord

(not shown) UV resistant black SJ power cord pre-installed at factory. Please specify power cord length available in 1' increments from 5' - 30'.

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

5 Year Limited LED Luminaire Warranty -

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

Listings and Ratings: Luminaire tested to IP65 and LM-79 standards. LEDs tested to LM-80 standards.

Luminaire suitable for ambient temperatures from 40°C (104°F) maximum to -40°C (-40°F) minimum.

NRTL Listed (i.e. UL, CSA)

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

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Page 2 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

Mounting

selux

Type:
ALP01
Page 3 of 6

1 - Single Arm

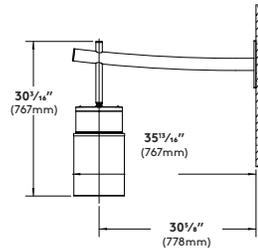
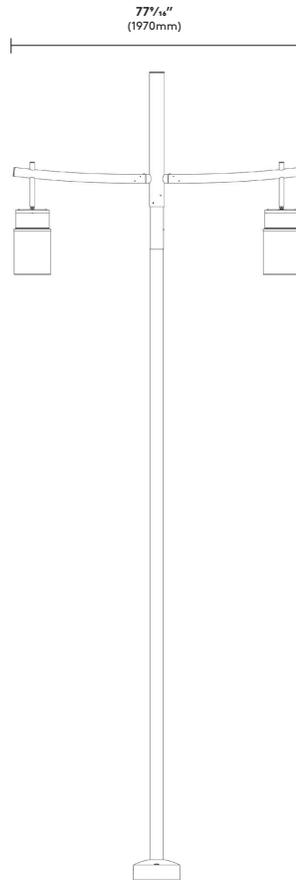
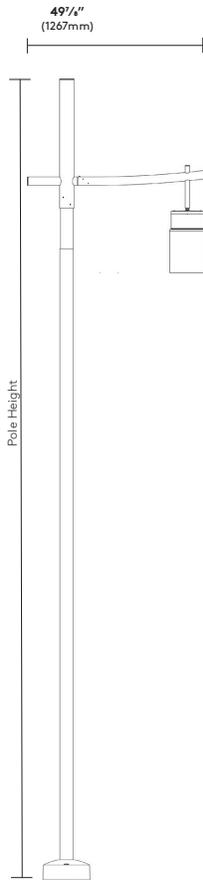
EPA = 1.57ft²
Weight = 32lbs. (15kg)

2 - Double Arm

EPA = 1.3ft²
Weight = 55lbs. (25kg)

W - Wall Mount Arm

EPA = N/A
Weight = 24lbs. (11kg)



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Page 3 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

selux

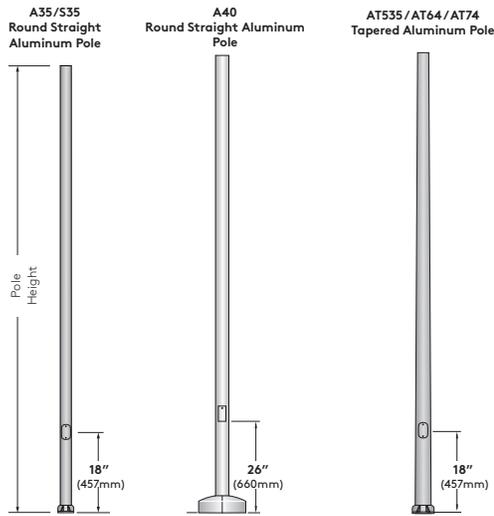
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Page 4 of 6

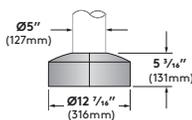
Pole Information

Refer to pole specification sheets for construction details, anchorage information and additional options.

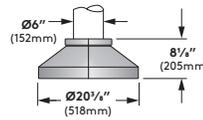
Optional Base Covers for Poles
Die cast aluminum.



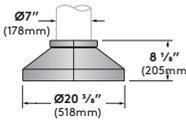
BC3 Optional Base Cover (AT535)
Die cast aluminum, two-piece field installable base cover.



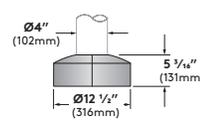
BC9 Optional Base Cover (AT64)
Die cast aluminum, two-piece field installable base cover.



BC10 Optional Base Cover (AT74)
Die cast aluminum, two-piece field installable base cover.



BC13 Optional Base Cover (A40)
Die cast aluminum, two-piece field installable base cover.



Pole Data Chart Pole Series	Bolt Circle	Wind Speed (mph)										Height	Finish	Options			
		90	100	110	120	130	140	150	160	170	180						
A35 3 1/2" Round Straight Aluminum Pole	7 1/2"	4.8	3.5	2.6	1.8	1.3	0.9	0.7	0.6	-	-	12 1/2ft	WH White	BC3 Decorative Cast Aluminium Base Cover (AT535)			
A40 4" Round Straight Aluminum Pole	7 1/2"	9.3	7.2	5.6	4.5	3.7	3.1	2.7	2.3	2.0	1.7				14 1/2ft	BK Black	BC9 Decorative Cast Aluminium Base Cover (AT64)
AT535 5" to 3 1/2" Round Tapered Aluminum Pole	8 1/2"	13.4	10.5	8.4	6.9	5.8	4.9	4.2	3.6	3.2	2.8						
AT64 6" to 4" Round Tapered Aluminum Pole	9 1/2"	20.3	16.1	13.1	10.9	9.2	7.9	6.8	5.9	5.2	4.5	18 1/2ft	BZ Bronze	BC13 Decorative Cast Aluminium Base Cover (A40)			
A35 3 1/2" Round Straight Aluminum Pole	7 1/2"	3.5	2.4	1.6	1.0	0.5	-	-	-	-	-				16 1/2ft	SV Silver	T35 Supplied with 3/4" diameter tenon, 4/8" high (use for A40, AT64, AT74 only)
A40 4" Round straight Aluminum Pole	7 1/2"	10.3	7.9	6.1	4.9	4.0	3.4	2.9	2.5	2.1	1.8						
AT535 5" to 3 1/2" Round Tapered Aluminum Pole	8 1/2"	11.2	8.7	6.9	5.5	4.6	3.8	3.3	2.8	2.4	2.1	18 1/2ft	REC2 GFCI Receptacle with weather-proof padlockable in-use cover				
AT64 6" to 4" Round tapered Aluminum Pole	9 1/2"	17.2	13.6	11.0	9.1	7.6	6.5	5.6	4.8	4.2	3.7			18 1/2ft	REC3 USB and Duplex Receptacle with weather-proof cover		
A35 3 1/2" Round Straight Aluminum Pole	7 1/2"	2.1	1.2	0.6	-	-	-	-	-	-	-					18 1/2ft	REC4 USB and Duplex Receptacle with weather-proof padlockable in-use cover
A40 4" Round straight Aluminum Pole	7 1/2"	8.3	6.2	4.7	3.6	3.0	2.5	2.1	1.7	1.5	1.2	18 1/2ft	Motion Sensor w/ Optional Photocell				
AT535 5" to 3 1/2" Round tapered Aluminum Pole	8 1/2"	9.1	6.9	5.4	4.3	3.4	2.9	2.4	2.0	1.7	1.5			18 1/2ft	Motion Sensor w/ Optional Photocell		
AT64 6" to 4" Round tapered Aluminum Pole	9 1/2"	14.3	11.2	9.0	7.4	6.2	5.2	4.4	3.8	3.3	2.9					18 1/2ft	Motion Sensor w/ Optional Photocell
A40 4" Round straight Aluminum Pole	7 1/2"	6.6	4.8	3.5	2.6	2.1	1.7	1.4	1.1	0.9	0.7	18 1/2ft	Motion Sensor w/ Optional Photocell				
AT535 5" to 3 1/2" Round tapered Aluminum Pole	8 1/2"	9.2	7.0	5.4	4.2	3.4	2.8	2.5	2.0	1.7	1.4			18 1/2ft	Motion Sensor w/ Optional Photocell		
AT64 6" to 4" Round tapered Aluminum Pole	9 1/2"	11.9	9.2	7.3	6.0	4.9	4.2	3.5	3.0	2.6	2.2					18 1/2ft	Motion Sensor w/ Optional Photocell
AT74 7" to 4" Round tapered Aluminum Pole	10 1/2"	17.5	13.8	11.2	9.2	7.7	6.5	5.6	4.8	4.1	3.5	18 1/2ft	Motion Sensor w/ Optional Photocell				

Allowable EPA calculated according to AASHTO 1994 and include allowance for 1/3 gust factor. See Mounting Configuration pages for fixture arm weight and EPA values.

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ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

selux

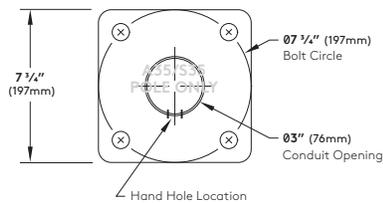
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ALP01
Page 5 of 6

Pole Information

Refer to pole specification sheets for construction details, anchorage information and additional options.

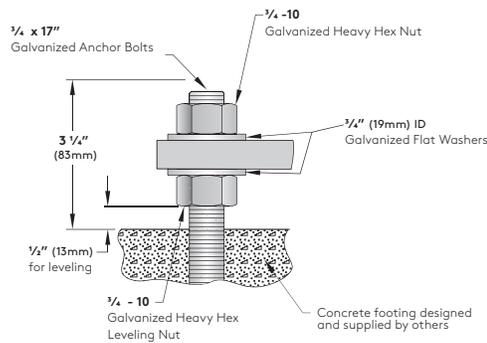
Bolt Circle for A35 & S35

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



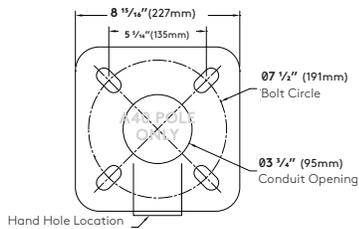
Note: Adequate drainage must be provided in concrete foundation.

Anchor Bolt Detail for A35 & S35



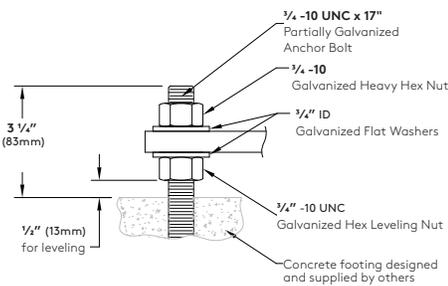
Bolt Circle for A40

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



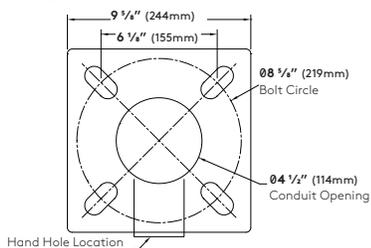
Note: Adequate drainage must be provided in concrete foundation.

Anchor Bolt Detail for A40

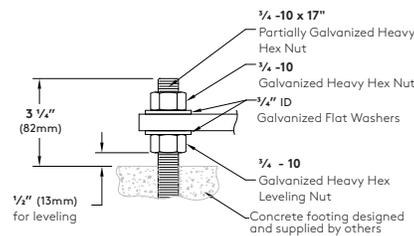


Bolt Circle for AT535

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



Anchor Bolt Detail for AT535



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Page 5 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

selux

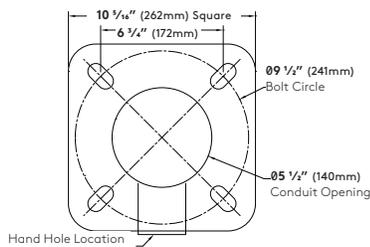
Type:
ALP01
Page 6 of 6

Pole Information

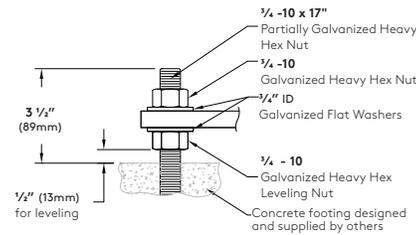
Refer to pole specification sheets for construction details, anchorage information and additional options.

Bolt Circle for AT64

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

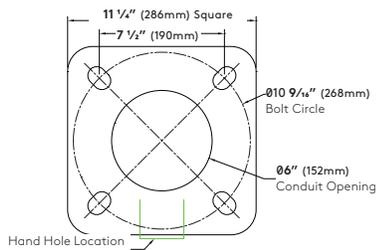


Anchor Bolt Detail for AT64

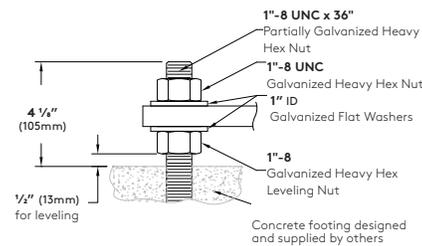


Bolt Circle for AT74

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



Anchor Bolt Detail for AT74



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Page 6 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: Selux : Lenova LED Pole Mount
Description: 14ft Pole Light R1 Type Distribution

Fixture Wattage: 24 W
Lumen Output: 2477 lumen
Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: LAL-R1-X-CL-5G250-XX-30-SP-120-DM

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

selux

Type:
ALP02
Page 1 of 8

Lanova LED Pole Mount



straight arm

Order Code: LAL - - - - -

LAL	Pole Order Code:							
	Series	Height	Finish	Options				
Series	LAL Lanova LED							
Optics	R1 Type I Distribution	R2 Type II Distribution	R3 Type III Distribution	R4 Type IV Distribution	R5S Type V Square	R5R Type V Round	DB Diffuse Bowl	
Mounting	1 Single	2 Double	W Wall					
Cylinder	CL Clear long	FL ¹ 1/2 Frosted Long	CT Clear Tapered				¹ DB optics only	
Light Engine	5G150 ² 1556lm, 15W	5G250 ² 2477lm, 24W	5G350 3468lm, 33W	5G450 4459lm, 42W			² Not Available with DM, HL30, or HL50 [*] Based on R2 distribution and 3000K CCT	
Power Cord Length	8 8'	10 10'	12 12'	14 14'	16 16'	18 18'	XX ³ XX'	³ Add length of arm + height of pole to determine power cord length
CCT	30 3000K	40 4000K						for other CCT please consult factory
Finish	WH White	BK Black	BL Semi-Matte Black	BZ Bronze	SV Silver	SP Specify Premium Color		
Voltage	120	208	240	277	347 ^{4,5}	480 ^{4,5}		⁴ Not available with HL30 or HL50 ⁵ Requires stepdown transformer, 60 Hz only
Options	DM Dimming (0-10V)	HL30 ^{6,7} Hi-Lo Switching 30-100%	HL50 ^{6,7} Hi-Lo Switching 50-100%	HS* House Side Shield				⁶ 120, 240, and 277V Only ⁷ Not available with DM option [*] Not available with R5S, R5R, or DB optics

Lighting Notes:

1. Finish to be specified by architect.
2. Contractor to coordinate pole mounting with civil scope and other services according to manufacturer recommendations.
3. Modifications include (a) Straight Arms (b) power receptacles hidden in base (c) one circuit per pole.
4. Landscape Architect to Specify Base Cover.
5. Height of pole to be 14'.
6. Refer to drawing to determine single or double mount.
7. Add alternate: Standard Finish

Product Modifications

Please list modification requirements for review by factory:

Straight arm, power receptacle hidden in base - one circuit per pole

Approvals

Date: _____



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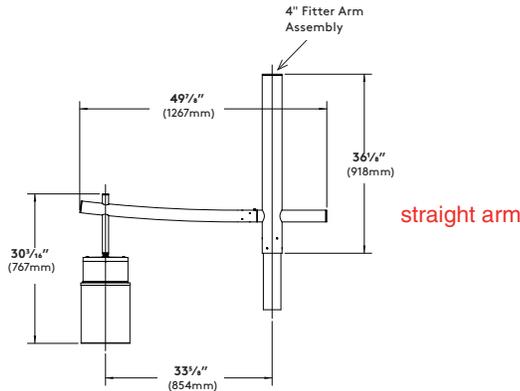
Page 1 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

selux

Type:
ALP02
Page 2 of 8



Net Weight (19.5 lbs)
EPA = 0.68 ft²

Specifications

Luminaire Housing

Die cast aluminum housing made from low copper marine grade aluminum.

Gasketing

(not shown) Continuous UV resistant silicone gasket provides weatherproofing, dust and insect control at all fixture connections.

LED Array

(not shown) High Flux LEDs mounted to metal core PCB and attached to aluminum heat sink for maximum LED performance and life. CCT tolerance within a 3 step bin and provided with a minimum CRI of 80. LED light engine has a reported lumen maintenance of 93% at 50,000 hours. L70 calculated greater than 100,000 hours.

LED Optics

Clear half frosted, or tapered UV stabilized acrylic outer cylinder creates the optical chamber. Technical Optics (R1, R2, R3, R4, R5S and R5R) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Diffuser Bowl (DB) option made of highly diffuse UV stabilized acrylic hides LED source and provides a pleasant/soft light quality.

LED Driver

LEDs are driven by RoHS compliant constant current programmable LED driver. Driver includes 0-10V dimming to 10%, meets the requirements of IP65 and includes a 5 Year warranty.

Surge Protector

(not shown) Independent surge protector device designed to protect luminaire from electrical surge up to 20kA.

Power Cord

(not shown) UV resistant black SJ power cord pre-installed at factory. Please specify power cord length available in 1' increments from 5' - 30'.

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

5 Year Limited LED Luminaire Warranty -

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

Listings and Ratings: Luminaire tested to IP65 and LM-79 standards. LEDs tested to LM-80 standards.

Luminaire suitable for ambient temperatures from 40°C (104°F) maximum to -40°C (-40°F) minimum.

NRTL Listed (i.e. UL, CSA)

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

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Page 2 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

Mounting

selux

Type:
ALP02

Page 3 of 8

1 - Single Arm

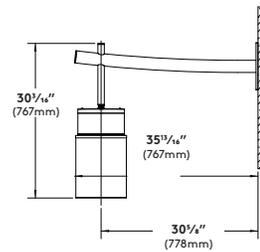
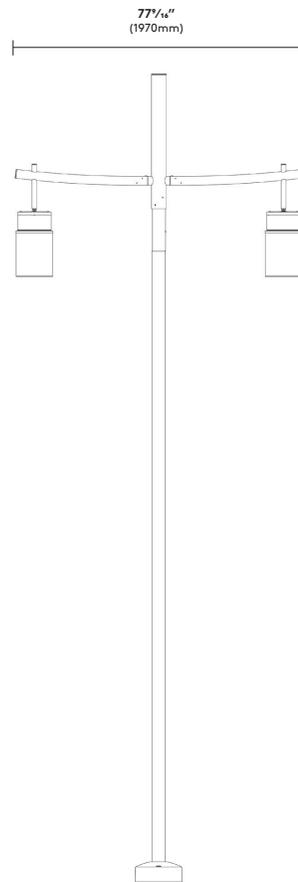
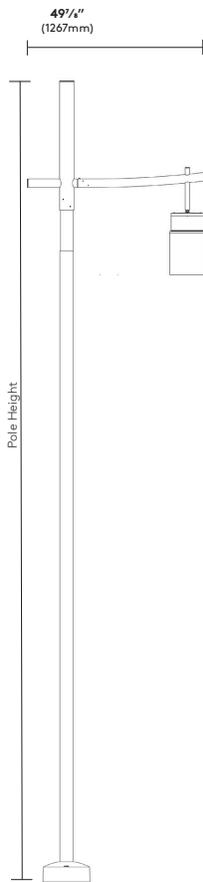
EPA = 1.57ft²
Weight = 32lbs. (15kg)

2 - Double Arm

EPA = 1.3ft²
Weight = 55lbs. (25kg)

W - Wall Mount Arm

EPA = N/A
Weight = 24lbs. (11kg)



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Page 3 of 12
(Rev. 02/2020)
LAL_ss_v1.2

Lanova LED

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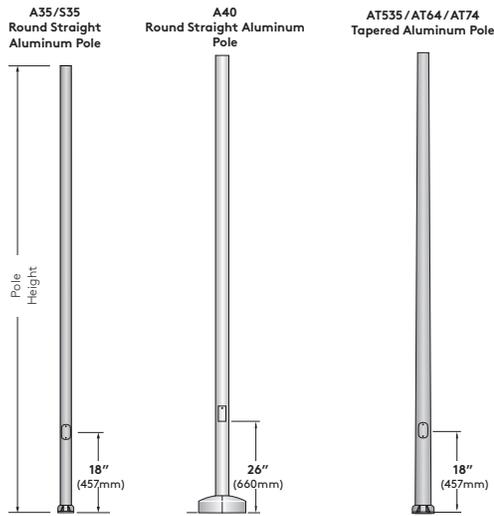
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ALP02

Page 4 of 8

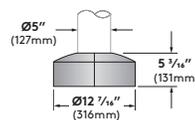
Pole Information

Refer to pole specification sheets for construction details, anchorage information and additional options.

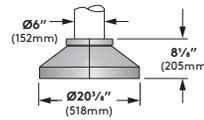
Optional Base Covers for Poles
Die cast aluminum.



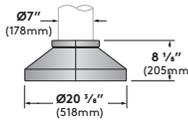
BC3 Optional Base Cover (AT535)
Die cast aluminum, two-piece field installable base cover.



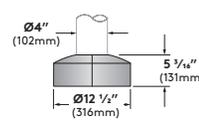
BC9 Optional Base Cover (AT64)
Die cast aluminum, two-piece field installable base cover.



BC10 Optional Base Cover (AT74)
Die cast aluminum, two-piece field installable base cover.



BC13 Optional Base Cover (A40)
Die cast aluminum, two-piece field installable base cover.



Pole Data Chart Pole Series	Bolt Circle	Wind Speed (mph)										Height	Finish	Options			
		90	100	110	120	130	140	150	160	170	180						
A35 3 1/2" Round Straight Aluminum Pole	7 1/2"	4.8	3.5	2.6	1.8	1.3	0.9	0.7	0.6	-	-	12 1/2ft	WH White	BC3 Decorative Cast Aluminium Base Cover (AT535)			
A40 4" Round Straight Aluminum Pole	7 1/2"	9.3	7.2	5.6	4.5	3.7	3.1	2.7	2.3	2.0	1.7				14 1/2ft	BK Black	BC9 Decorative Cast Aluminium Base Cover (AT64)
AT535 5" to 3 1/2" Round Tapered Aluminum Pole	8 1/2"	13.4	10.5	8.4	6.9	5.8	4.9	4.2	3.6	3.2	2.8						
AT64 6" to 4" Round Tapered Aluminum Pole	9 1/2"	20.3	16.1	13.1	10.9	9.2	7.9	6.8	5.9	5.2	4.5	18 1/2ft	BZ Bronze	BC13 Decorative Cast Aluminium Base Cover (A40)			
A35 3 1/2" Round Straight Aluminum Pole	7 1/2"	3.5	2.4	1.6	1.0	0.5	-	-	-	-	-				16 1/2ft	SV Silver	T35 Supplied with 3/4" diameter tenon, 4/8" high (use for A40, AT64, AT74 only)
A40 4" Round straight Aluminum Pole	7 1/2"	10.3	7.9	6.1	4.9	4.0	3.4	2.9	2.5	2.1	1.8						
AT535 5" to 3 1/2" Round Tapered Aluminum Pole	8 1/2"	11.2	8.7	6.9	5.5	4.6	3.8	3.3	2.8	2.4	2.1	18 1/2ft		REC2 GFCI Receptacle with weather-proof padlockable in-use cover			
AT64 6" to 4" Round tapered Aluminum Pole	9 1/2"	17.2	13.6	11.0	9.1	7.6	6.5	5.6	4.8	4.2	3.7				18 1/2ft		REC3 USB and Duplex Receptacle with weather-proof cover
A35 3 1/2" Round Straight Aluminum Pole	7 1/2"	2.1	1.2	0.6	-	-	-	-	-	-	-						
A40 4" Round straight Aluminum Pole	7 1/2"	8.3	6.2	4.7	3.6	3.0	2.5	2.1	1.7	1.5	1.2	18 1/2ft		Motion Sensor w/ Optional Photocell			
AT535 5" to 3 1/2" Round tapered Aluminum Pole	8 1/2"	9.1	6.9	5.4	4.3	3.4	2.9	2.4	2.0	1.7	1.5				18 1/2ft		
AT64 6" to 4" Round tapered Aluminum Pole	9 1/2"	14.3	11.2	9.0	7.4	6.2	5.2	4.4	3.8	3.3	2.9						
A40 4" Round straight Aluminum Pole	7 1/2"	6.6	4.8	3.5	2.6	2.1	1.7	1.4	1.1	0.9	0.7	18 1/2ft					
AT535 5" to 3 1/2" Round tapered Aluminum Pole	8 1/2"	9.2	7.0	5.4	4.2	3.4	2.8	2.5	2.0	1.7	1.4				18 1/2ft		
AT64 6" to 4" Round tapered Aluminum Pole	9 1/2"	11.9	9.2	7.3	6.0	4.9	4.2	3.5	3.0	2.6	2.2						
AT74 7" to 4" Round tapered Aluminum Pole	10 1/2"	17.5	13.8	11.2	9.2	7.7	6.5	5.6	4.8	4.1	3.5	18 1/2ft					

Allowable EPA calculated according to AASHTO 1994 and include allowance for 1/3 gust factor. See Mounting Configuration pages for fixture arm weight and EPA values.

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Lanova LED

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Type:
ALP02

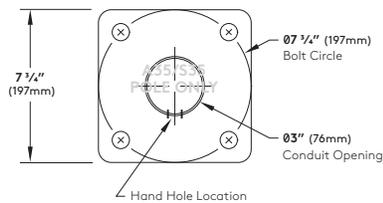
Page 5 of 8

Pole Information

Refer to pole specification sheets for construction details, anchorage information and additional options.

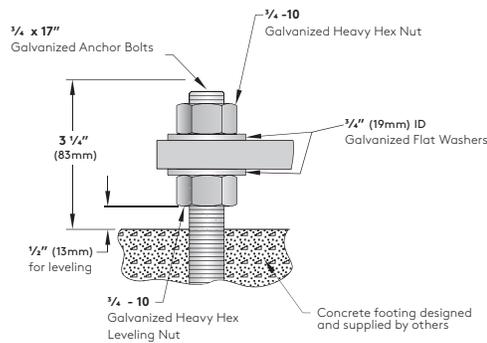
Bolt Circle for A35 & S35

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



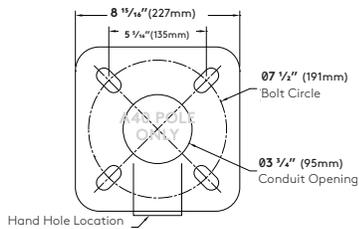
Note: Adequate drainage must be provided in concrete foundation.

Anchor Bolt Detail for A35 & S35



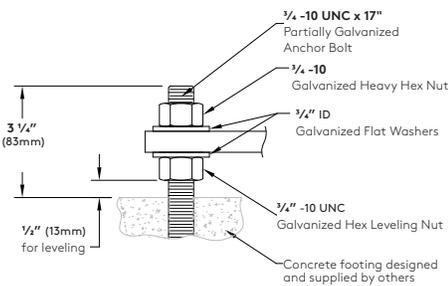
Bolt Circle for A40

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



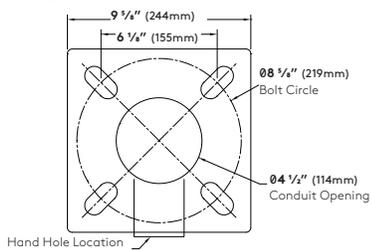
Note: Adequate drainage must be provided in concrete foundation.

Anchor Bolt Detail for A40

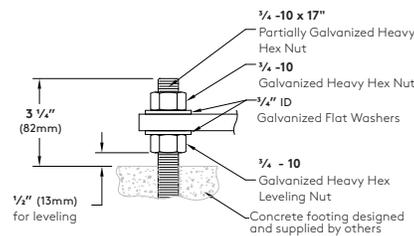


Bolt Circle for AT535

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



Anchor Bolt Detail for AT535



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Page 5 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

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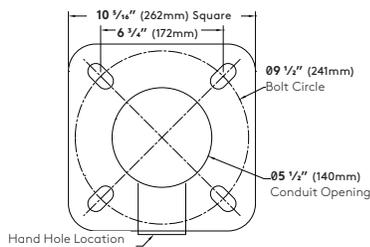
Type:
ALP02
Page 6 of 8

Pole Information

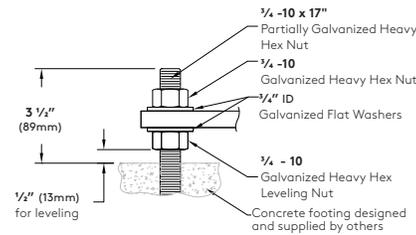
Refer to pole specification sheets for construction details, anchorage information and additional options.

Bolt Circle for AT64

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

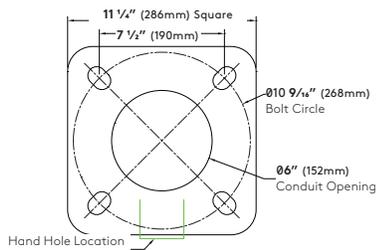


Anchor Bolt Detail for AT64

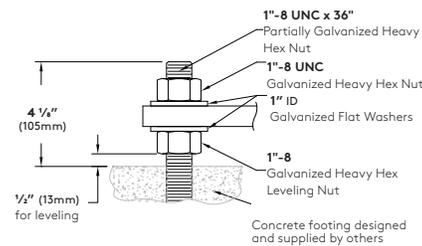


Bolt Circle for AT74

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



Anchor Bolt Detail for AT74



Lanova LED

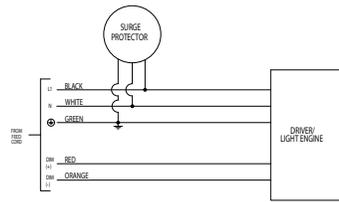
selux

Type:
ALP02
Page 7 of 8

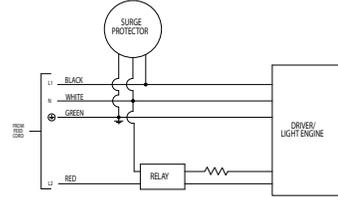
ELECTRICAL SPECIFICATIONS									
CCT	3000K/4000K								
CYLINDER	CL Cylinder Standard						FL Cylinder Standard		
OPTICS	R1, R2, R3, and R4			RSR and R5S			DB		
Light Engine/ Electrical Specs	Delivered Lumens (lm)	Wattage (W) 120-277 / 347-480	Efficacy (lm/W)	Delivered Lumens (lm)	Wattage (W) 120-277 / 347-480	Efficacy (lm/W)	Delivered Lumens (lm)	Wattage (W) 120-277 / 347-480	Efficacy (lm/W)
5G150	1316	14.2 / 18	92.9	1488	14.2 / 18	105.0	1327	14.2 / 18	93.5
5G250	2193	23.6 / 27	92.9	2480	23.6 / 27	105.0	2211	23.6 / 27	93.5
5G350	3070	33.1 / 35	92.9	3471	33.1 / 35	105.0	3096	33.1 / 35	93.5
5G450	3948	42.5 / 44	92.9	4463	42.5 / 44	105.0	3981	42.5 / 44	93.5

Wiring

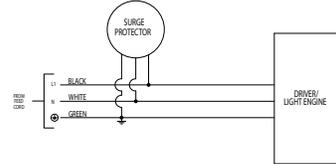
0-10V Dimming Option (DM) Wiring for 120-277V
100% light output at 10V, down to 1% light output at 0V.



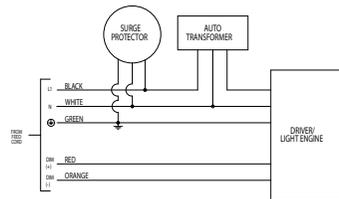
Hi-Lo Switching Option (HL30/HL50) Wiring
120/240/277V. When red is energized, light output will be
at 'Lo' level.



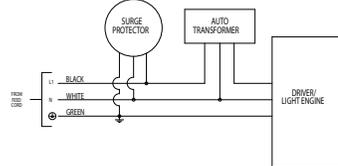
Standard Wiring for 120-277V
Standard wiring for 120-277V with no additional options.



0-10V Dimming Option (DM) Wiring for 347/480V
100% light output at 10V, down to 1% light output at 0V.



Standard Wiring for 347/480V
Standard wiring for 347/480V with no additional options.



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Page 7 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

selux

Type:
ALP02

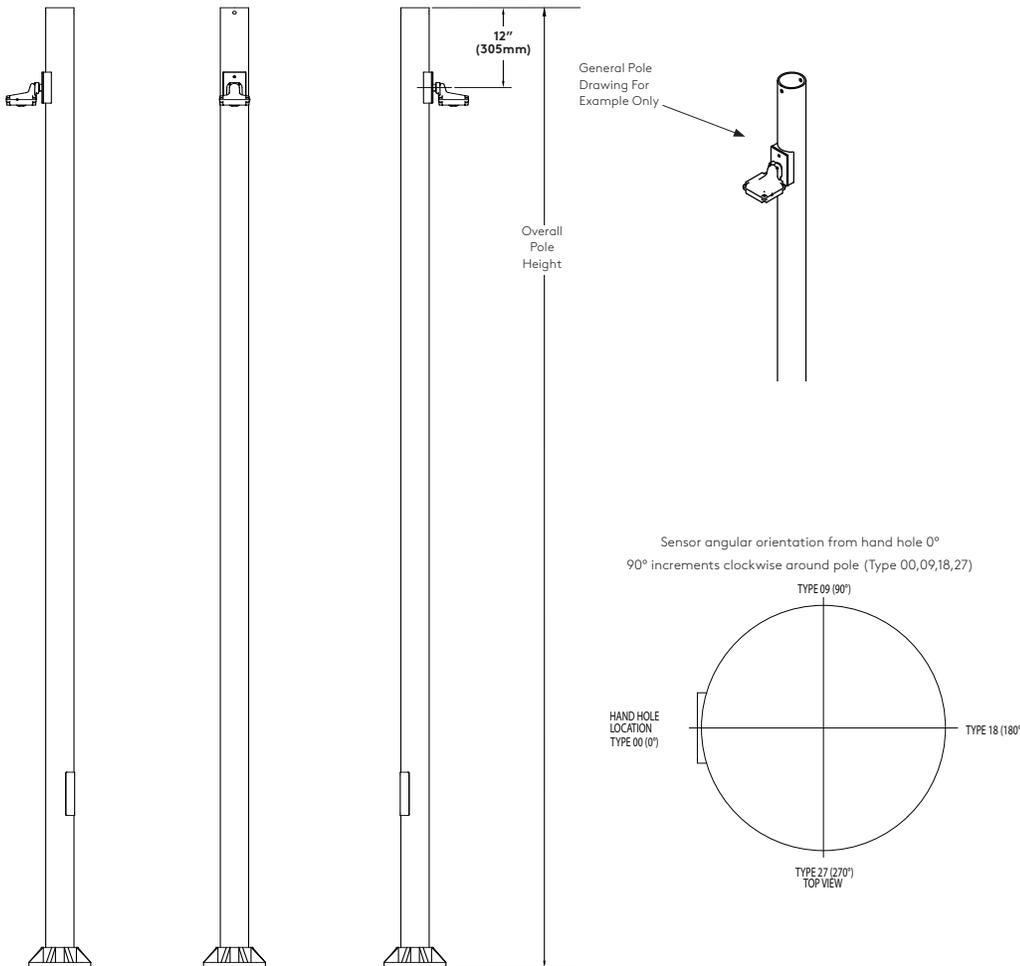
Pole Motion Sensor

Page 8 of 8

The Selux outdoor rated sensor incorporates Passive Infrared (PIR) technology for motion sensing and also includes a built in photocell. Designed to mount directly through a 1/2" KO in a single gang faceplate on pole/column, the SBO utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size while preventing false tripping from the environment.

Series	Optics	Hand Hole Orientation	Program	Color	Photocell Feature	Voltage
MS Motion Sensor	1 270° coverage - Single Sensor	00	D0 (0V=0%)	WH White	Y Yes	UNV
		09	D1 (1V=10%)	BK Black	N No	347
		18	D3 (3V=30%)	BZ Bronze		480
		27	D5 (5V=50%)			

NOTE: Motion sensor comes programmed at 30% dimmed level with a 5 min. delay as default. All programming required after shipping by others.



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ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: Selux : Lenova LED Pole Mount
Description: 14ft Pole Light R5R Type Distribution

Fixture Wattage: 24 W
Lumen Output: 2477 lumen
Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: LAL-R5R-X-CL-5G250-XX-30-SP-120-DM

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

selux

Type: **ALP03**
Page 1 of 6

Lanova LED Pole Mount



Order Code: LAL - - - - -

LAL	Pole Order Code:							
	Series	Height	Finish	Options				
Series	LAL Lanova LED							
Optics	R1 Type I Distribution	R2 Type II Distribution	R3 Type III Distribution	R4 Type IV Distribution	R5S Type V Square	R5R Type V Round	DB Diffuse Bowl	
Mounting	1 Single	2 Double	W Wall					
Cylinder	CL Clear long	FL ¹ 1/2 Frosted Long	CT Clear Tapered				¹ DB optics only	
Light Engine	5G150 ² 1556lm, 15W	5G250 ² 2477lm, 24W	5G350 3468lm, 33W	5G450 4459lm, 42W			² Not Available with DM, HL30, or HL50 [*] Based on R2 distribution and 3000K CCT	
Power Cord Length	8 8'	10 10'	12 12'	14 14'	16 16'	18 18'	XX ³ XX'	³ Add length of arm + height of pole to determine power cord length
CCT	30 3000K	40 4000K						for other CCT please consult factory
Finish	WH White	BK Black	BL Semi-Matte Black	BZ Bronze	SV Silver	SP Specify Premium Color		
Voltage	120	208	240	277	347 ^{4,5}	480 ^{4,5}		⁴ Not available with HL30 or HL50 ⁵ Requires stepdown transformer, 60 Hz only
Options	DM Dimming (0-10V)	HL30 ^{6,7} Hi-Lo Switching 30-100%	HL50 ^{6,7} Hi-Lo Switching 50-100%	HS* House Side Shield				⁶ 120, 240, and 277V Only ⁷ Not available with DM option [*] Not available with R5S, R5R, or DB optics

Lighting Notes:

1. Finish to be specified by architect.
2. Contractor to coordinate pole mounting with civil scope and other services according to manufacturer recommendations.
3. Modifications include (a) Straight Arms (b) power receptacles hidden in base (c) one circuit per pole.
4. Landscape Architect to Specify Base Cover.
5. Height of pole to be 14'.
6. Refer to drawing to determine single or double mount.
7. Add alternate: Standard Finish

Product Modifications

Please list modification requirements for review by factory:

Straight arm, power receptacle hidden in base - one circuit per pole

Approvals

Date: _____



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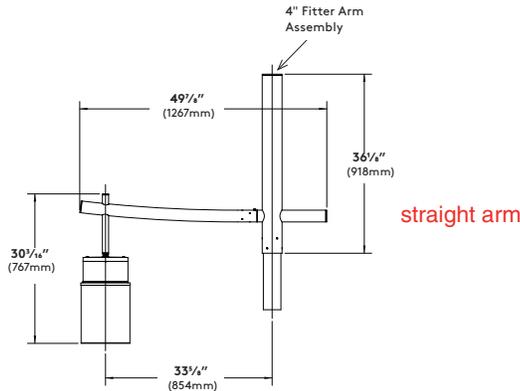
Page 1 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

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Type:
ALP03
Page 2 of 6



Net Weight (19.5 lbs)
EPA = 0.68 ft²

Specifications

Luminaire Housing

Die cast aluminum housing made from low copper marine grade aluminum.

Gasketing

(not shown) Continuous UV resistant silicone gasket provides weatherproofing, dust and insect control at all fixture connections.

LED Array

(not shown) High Flux LEDs mounted to metal core PCB and attached to aluminum heat sink for maximum LED performance and life. CCT tolerance within a 3 step bin and provided with a minimum CRI of 80. LED light engine has a reported lumen maintenance of 93% at 50,000 hours. L70 calculated greater than 100,000 hours.

LED Optics

Clear half frosted, or tapered UV stabilized acrylic outer cylinder creates the optical chamber. Technical Optics (R1, R2, R3, R4, R5S and R5R) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Diffuser Bowl (DB) option made of highly diffuse UV stabilized acrylic hides LED source and provides a pleasant/soft light quality.

LED Driver

LEDs are driven by RoHS compliant constant current programmable LED driver. Driver includes 0-10V dimming to 10%, meets the requirements of IP65 and includes a 5 Year warranty.

Surge Protector

(not shown) Independent surge protector device designed to protect luminaire from electrical surge up to 20kA.

Power Cord

(not shown) UV resistant black SJ power cord pre-installed at factory. Please specify power cord length available in 1' increments from 5' - 30'.

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

5 Year Limited LED Luminaire Warranty -

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

Listings and Ratings: Luminaire tested to IP65 and LM-79 standards. LEDs tested to LM-80 standards.

Luminaire suitable for ambient temperatures from 40°C (104°F) maximum to -40°C (-40°F) minimum.

NRTL Listed (i.e. UL, CSA)

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

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Page 2 of 12
(Rev. 02/2020)
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ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

Mounting

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Type:
ALP03

Page 3 of 6

1 - Single Arm

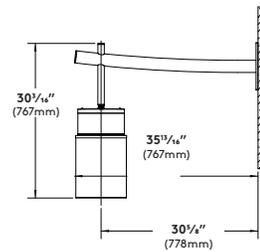
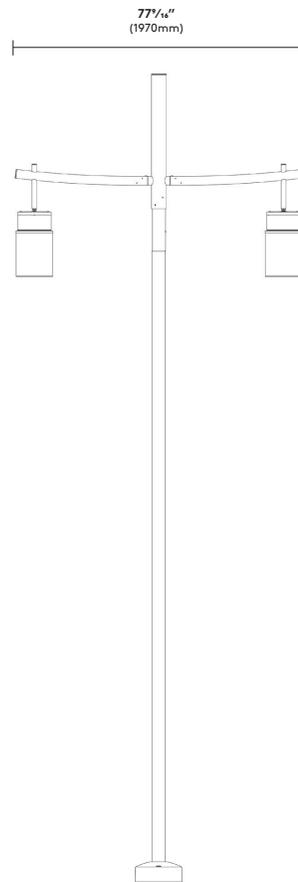
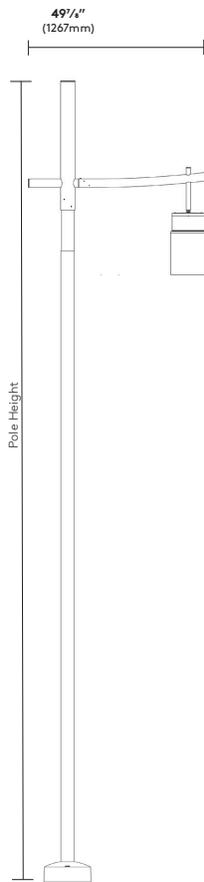
EPA = 1.57ft²
Weight = 32lbs. (15kg)

2 - Double Arm

EPA = 1.3ft²
Weight = 55lbs. (25kg)

W - Wall Mount Arm

EPA = N/A
Weight = 24lbs. (11kg)



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Page 3 of 12
(Rev. 02/2020)
LAL_ss_v1.2

Lanova LED

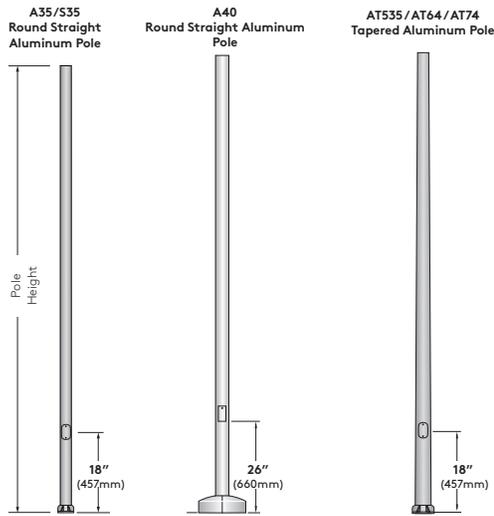
selux

Type:
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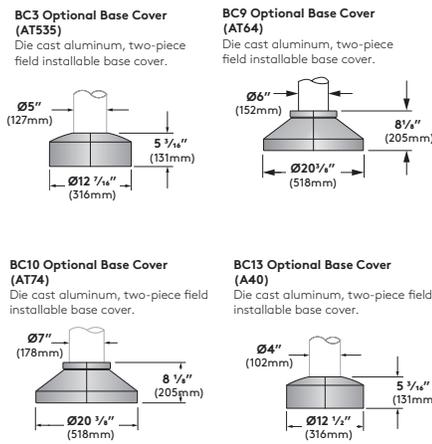
Page 4 of 6

Pole Information

Refer to pole specification sheets for construction details, anchorage information and additional options.



Optional Base Covers for Poles
Die cast aluminum.



Pole Data Chart Pole Series	Bolt Circle	Wind Speed (mph)										Height	Finish	Options			
		90	100	110	120	130	140	150	160	170	180						
A35 3/2" Round Straight Aluminum Pole	7 1/2"	4.8	3.5	2.6	1.8	1.3	0.9	0.7	0.6	-	-	12 1/2ft	WH White	BC3 Decorative Cast Aluminium Base Cover (AT535)			
A40 4" Round Straight Aluminum Pole	7 1/2"	9.3	7.2	5.6	4.5	3.7	3.1	2.7	2.3	2.0	1.7				14 1/2ft	BK Black	BC9 Decorative Cast Aluminium Base Cover (AT64)
AT535 5" to 3 1/2" Round Tapered Aluminum Pole	8 1/2"	13.4	10.5	8.4	6.9	5.8	4.9	4.2	3.6	3.2	2.8						
AT64 6" to 4" Round Tapered Aluminum Pole	9 1/2"	20.3	16.1	13.1	10.9	9.2	7.9	6.8	5.9	5.2	4.5	18 1/2ft	BZ Bronze	BC13 Decorative Cast Aluminium Base Cover (A40)			
A35 3/2" Round Straight Aluminum Pole	7 1/2"	3.5	2.4	1.6	1.0	0.5	-	-	-	-	-				16 1/2ft	SV Silver	T35 Supplied with 3/4" diameter tenon, 4/4" high (use for A40, AT64, AT74 only)
A40 4" Round straight Aluminum Pole	7 1/2"	10.3	7.9	6.1	4.9	4.0	3.4	2.9	2.5	2.1	1.8						
AT535 5" to 3 1/2" Round Tapered Aluminum Pole	8 1/2"	11.2	8.7	6.9	5.5	4.6	3.8	3.3	2.8	2.4	2.1	18 1/2ft	REC2 GFCI Receptacle with weather-proof padlockable in-use cover				
AT64 6" to 4" Round tapered Aluminum Pole	9 1/2"	17.2	13.6	11.0	9.1	7.6	6.5	5.6	4.8	4.2	3.7			18 1/2ft	REC3 USB and Duplex Receptacle with weather-proof cover		
A35 3/2" Round Straight Aluminum Pole	7 1/2"	2.1	1.2	0.6	-	-	-	-	-	-	-					18 1/2ft	REC4 USB and Duplex Receptacle with weather-proof padlockable in-use cover
A40 4" Round straight Aluminum Pole	7 1/2"	8.3	6.2	4.7	3.6	3.0	2.5	2.1	1.7	1.5	1.2	18 1/2ft	Motion Sensor w/ Optional Photocell				
AT535 5" to 3 1/2" Round tapered Aluminum Pole	8 1/2"	9.1	6.9	5.4	4.3	3.4	2.9	2.4	2.0	1.7	1.5			18 1/2ft	Motion Sensor w/ Optional Photocell		
AT64 6" to 4" Round tapered Aluminum Pole	9 1/2"	14.3	11.2	9.0	7.4	6.2	5.2	4.4	3.8	3.3	2.9					18 1/2ft	Motion Sensor w/ Optional Photocell
A40 4" Round straight Aluminum Pole	7 1/2"	6.6	4.8	3.5	2.6	2.1	1.7	1.4	1.1	0.9	0.7	18 1/2ft	Motion Sensor w/ Optional Photocell				
AT535 5" to 3 1/2" Round tapered Aluminum Pole	8 1/2"	9.2	7.0	5.4	4.2	3.4	2.8	2.5	2.0	1.7	1.4			18 1/2ft	Motion Sensor w/ Optional Photocell		
AT64 6" to 4" Round tapered Aluminum Pole	9 1/2"	11.9	9.2	7.3	6.0	4.9	4.2	3.5	3.0	2.6	2.2					18 1/2ft	Motion Sensor w/ Optional Photocell
AT74 7" to 4" Round tapered Aluminum Pole	10 1/2"	17.5	13.8	11.2	9.2	7.7	6.5	5.6	4.8	4.1	3.5	18 1/2ft	Motion Sensor w/ Optional Photocell				

Allowable EPA calculated according to AASHTO 1994 and include allowance for 1/3 gust factor. See Mounting Configuration pages for fixture arm weight and EPA values.

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Page 4 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

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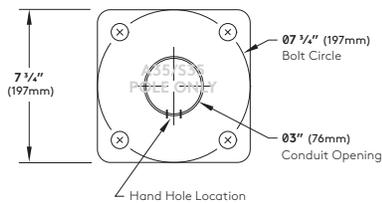
Type:
ALP03
Page 5 of 6

Pole Information

Refer to pole specification sheets for construction details, anchorage information and additional options.

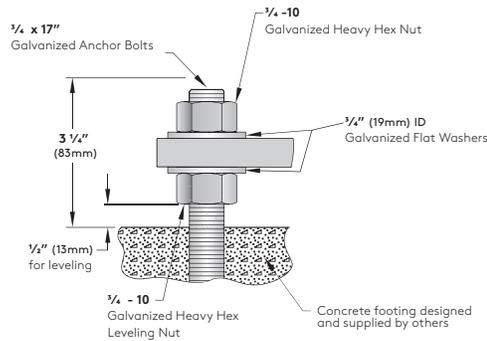
Bolt Circle for A35 & S35

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



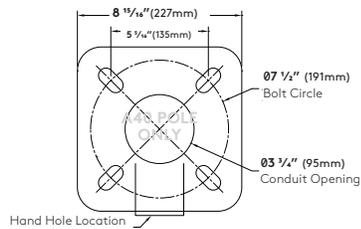
Note: Adequate drainage must be provided in concrete foundation.

Anchor Bolt Detail for A35 & S35



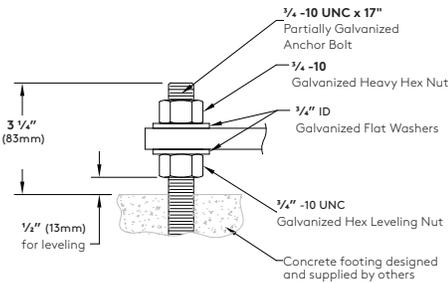
Bolt Circle for A40

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



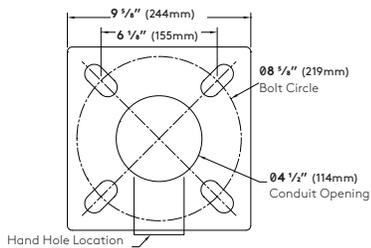
Note: Adequate drainage must be provided in concrete foundation.

Anchor Bolt Detail for A40

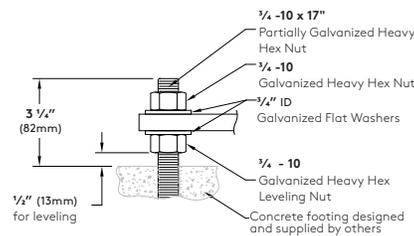


Bolt Circle for AT535

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



Anchor Bolt Detail for AT535



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Page 5 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
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Phone: 1 212 896 3000

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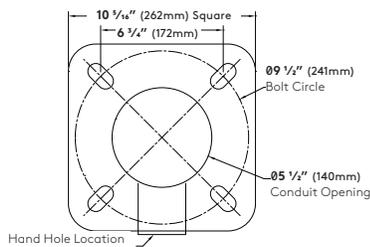
Type:
ALP03
Page 6 of 6

Pole Information

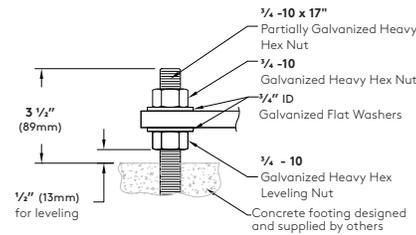
Refer to pole specification sheets for construction details, anchorage information and additional options.

Bolt Circle for AT64

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

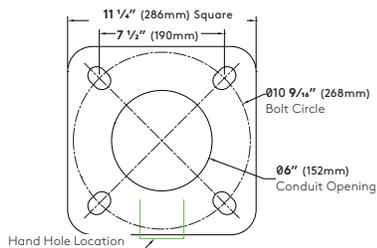


Anchor Bolt Detail for AT64

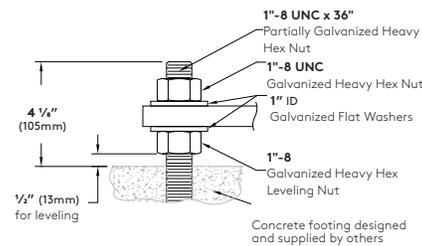


Bolt Circle for AT74

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



Anchor Bolt Detail for AT74



Manufacturer: Selux : Lenova LED Pole Mount
Description: 12ft Pole Light R1 Type Distribution

Fixture Wattage: 24 W
Lumen Output: 2477 lumen
Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: LAL-R1-X-CL-5G250-XX-30-SP-120-DM

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

selux

Type: **ALP04**
Page 1 of 8

Lanova LED Pole Mount



Order Code: LAL - - - - -

		Pole Order Code: _____						
<u>LAL</u>	Series	LAL	Series	Height	Finish	Options		
	Optics	R1 Type I Distribution	R2 Type II Distribution	R3 Type III Distribution	R4 Type IV Distribution	R5S Type V Square	R5R Type V Round	DB Diffuse Bowl
	Mounting	1 Single	2 Double	W Wall				
	Cylinder	CL Clear long	FL ¹ 1/2 Frosted Long	CT Clear Tapered				¹ DB optics only
	Light Engine	5G150 ² 1556lm, 15W	5G250 ² 2477lm, 24W	5G350 3468lm, 33W	5G450 4459lm, 42W			² Not Available with DM, HL30, or HL50 [*] Based on R2 distribution and 3000K CCT
	Power Cord Length	8 8'	10 10'	12 12'	14 14'	16 16'	18 18'	XX ³ XX'
	CCT	30 3000K	40 4000K					³ Add length of arm + height of pole to determine power cord length for other CCT please consult factory
	Finish	WH White	BK Black	BL Semi-Matte Black	BZ Bronze	SV Silver	SP Specify Premium Color	
	Voltage	120	208	240	277	347 ^{4,5}	480 ^{4,5}	⁴ Not available with HL30 or HL50 ⁵ Requires stepdown transformer, 60 Hz only
	Options	DM Dimming (0-10V)	HL30 ^{6,7} Hi-Lo Switching 30-100%	HL50 ^{6,7} Hi-Lo Switching 50-100%	HS* House Side Shield			⁶ 120, 240, and 277V Only ⁷ Not available with DM option [*] Not available with R5S, R5R, or DB optics

Lighting Notes:

1. Finish to be specified by architect.
2. Contractor to coordinate pole mounting with civil scope and other services according to manufacturer recommendations.
3. Modifications include (a) Straight Arms (b) power receptacles hidden in base (c) one circuit per pole.
4. Landscape Architect to Specify Base Cover.
5. Height of pole to be 12'.
6. Refer to drawing to determine single or double mount.
7. Add alternate: Standard Finish

Product Modifications

Please list modification requirements for review by factory:

Straight arm, power receptacle hidden in base - one circuit per pole

Approvals

Date: _____



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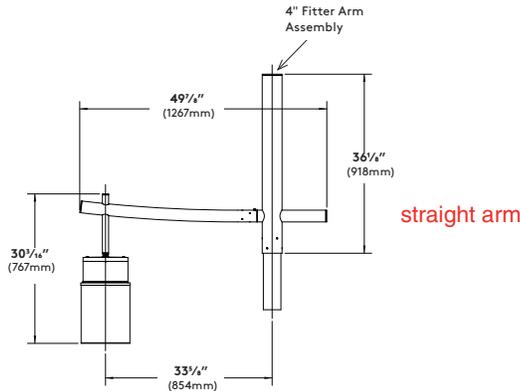
Page 1 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

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Type:
ALP04
Page 2 of 8



Net Weight (19.5 lbs)
EPA = 0.68 ft²

Specifications

Luminaire Housing

Die cast aluminum housing made from low copper marine grade aluminum.

Gasketing

(not shown) Continuous UV resistant silicone gasket provides weatherproofing, dust and insect control at all fixture connections.

LED Array

(not shown) High Flux LEDs mounted to metal core PCB and attached to aluminum heat sink for maximum LED performance and life. CCT tolerance within a 3 step bin and provided with a minimum CRI of 80. LED light engine has a reported lumen maintenance of 93% at 50,000 hours. L70 calculated greater than 100,000 hours.

LED Optics

Clear half frosted, or tapered UV stabilized acrylic outer cylinder creates the optical chamber. Technical Optics (R1, R2, R3, R4, R5S and R5R) use Selux signature light pattern acrylic lens holder to secure proprietary silicone optics. Diffuser Bowl (DB) option made of highly diffuse UV stabilized acrylic hides LED source and provides a pleasant/soft light quality.

LED Driver

LEDs are driven by RoHS compliant constant current programmable LED driver. Driver includes 0-10V dimming to 10%, meets the requirements of IP65 and includes a 5 Year warranty.

Surge Protector

(not shown) Independent surge protector device designed to protect luminaire from electrical surge up to 20kA.

Power Cord

(not shown) UV resistant black SJ power cord pre-installed at factory. Please specify power cord length available in 1' increments from 5' - 30'.

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

5 Year Limited LED Luminaire Warranty -

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

Listings and Ratings: Luminaire tested to IP65 and LM-79 standards. LEDs tested to LM-80 standards.

Luminaire suitable for ambient temperatures from 40°C (104°F) maximum to -40°C (-40°F) minimum.

NRTL Listed (i.e. UL, CSA)

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

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Page 2 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

Mounting

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Type:
ALP04

Page 3 of 8

1 - Single Arm

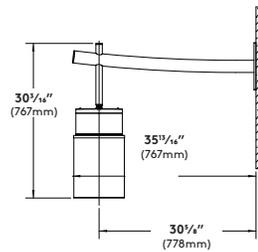
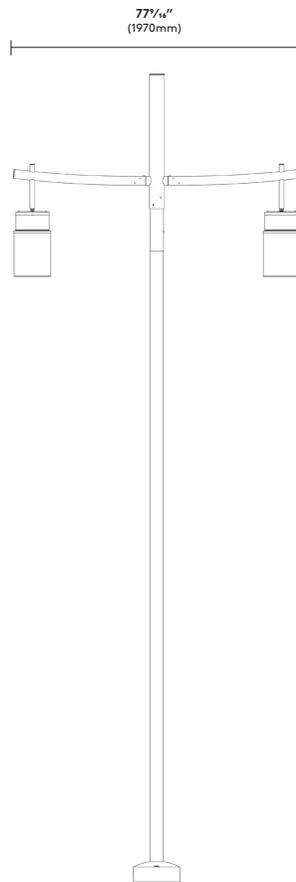
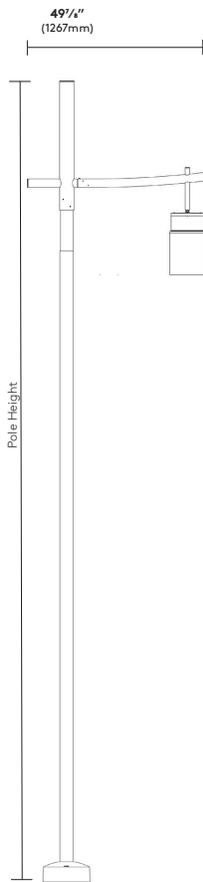
EPA = 1.57ft²
Weight = 32lbs. (15kg)

2 - Double Arm

EPA = 1.3ft²
Weight = 55lbs. (25kg)

W - Wall Mount Arm

EPA = N/A
Weight = 24lbs. (11kg)



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Page 3 of 12
(Rev. 02/2020)
LAL_ss_v1.2

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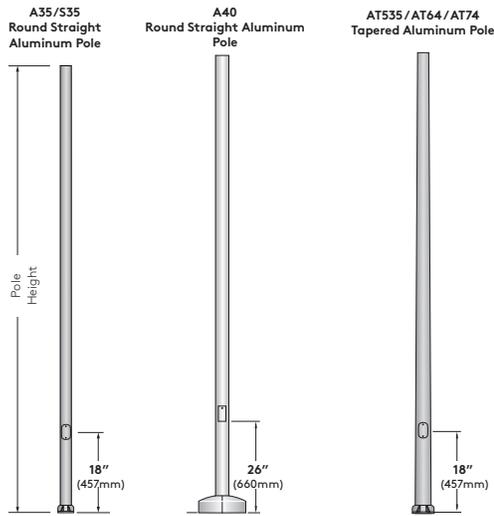
Type:
ALP04

Page 4 of 8

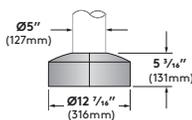
Pole Information

Refer to pole specification sheets for construction details, anchorage information and additional options.

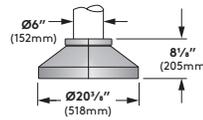
Optional Base Covers for Poles
Die cast aluminum.



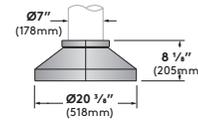
BC3 Optional Base Cover (AT535)
Die cast aluminum, two-piece field installable base cover.



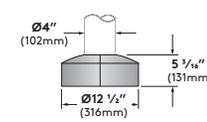
BC9 Optional Base Cover (AT64)
Die cast aluminum, two-piece field installable base cover.



BC10 Optional Base Cover (AT74)
Die cast aluminum, two-piece field installable base cover.



BC13 Optional Base Cover (A40)
Die cast aluminum, two-piece field installable base cover.



Pole Data Chart Pole Series	Bolt Circle	Wind Speed (mph)										Height	Finish	Options			
		90	100	110	120	130	140	150	160	170	180						
A35 3 1/2" Round Straight Aluminum Pole	7 1/2"	4.8	3.5	2.6	1.8	1.3	0.9	0.7	0.6	-	-	12 1/2ft	WH White	BC3 Decorative Cast Aluminium Base Cover (AT535)			
A40 4" Round Straight Aluminum Pole	7 1/2"	9.3	7.2	5.6	4.5	3.7	3.1	2.7	2.3	2.0	1.7				14 1/2ft	BK Black	BC9 Decorative Cast Aluminium Base Cover (AT64)
AT535 5" to 3 1/2" Round Tapered Aluminum Pole	8 1/2"	13.4	10.5	8.4	6.9	5.8	4.9	4.2	3.6	3.2	2.8						
AT64 6" to 4" Round Tapered Aluminum Pole	9 1/2"	20.3	16.1	13.1	10.9	9.2	7.9	6.8	5.9	5.2	4.5	18 1/2ft	BZ Bronze	BC13 Decorative Cast Aluminium Base Cover (A40)			
A35 3 1/2" Round Straight Aluminum Pole	7 1/2"	3.5	2.4	1.6	1.0	0.5	-	-	-	-	-				16 1/2ft	SV Silver	T35 Supplied with 3/4" diameter tenon, 4/8" high (use for A40, AT64, AT74 only)
A40 4" Round straight Aluminum Pole	7 1/2"	10.3	7.9	6.1	4.9	4.0	3.4	2.9	2.5	2.1	1.8						
AT535 5" to 3 1/2" Round Tapered Aluminum Pole	8 1/2"	11.2	8.7	6.9	5.5	4.6	3.8	3.3	2.8	2.4	2.1	18 1/2ft		REC2 GFCI Receptacle with weather-proof padlockable in-use cover			
AT64 6" to 4" Round tapered Aluminum Pole	9 1/2"	17.2	13.6	11.0	9.1	7.6	6.5	5.6	4.8	4.2	3.7				18 1/2ft		REC3 USB and Duplex Receptacle with weather-proof cover
A35 3 1/2" Round Straight Aluminum Pole	7 1/2"	2.1	1.2	0.6	-	-	-	-	-	-	-						
A40 4" Round straight Aluminum Pole	7 1/2"	8.3	6.2	4.7	3.6	3.0	2.5	2.1	1.7	1.5	1.2	18 1/2ft		Motion Sensor w/ Optional Photocell			
AT535 5" to 3 1/2" Round tapered Aluminum Pole	8 1/2"	9.1	6.9	5.4	4.3	3.4	2.9	2.4	2.0	1.7	1.5				18 1/2ft		
AT64 6" to 4" Round tapered Aluminum Pole	9 1/2"	14.3	11.2	9.0	7.4	6.2	5.2	4.4	3.8	3.3	2.9						
A40 4" Round straight Aluminum Pole	7 1/2"	6.6	4.8	3.5	2.6	2.1	1.7	1.4	1.1	0.9	0.7	18 1/2ft					
AT535 5" to 3 1/2" Round tapered Aluminum Pole	8 1/2"	9.2	7.0	5.4	4.2	3.4	2.8	2.5	2.0	1.7	1.4				18 1/2ft		
AT64 6" to 4" Round tapered Aluminum Pole	9 1/2"	11.9	9.2	7.3	6.0	4.9	4.2	3.5	3.0	2.6	2.2						
AT74 7" to 4" Round tapered Aluminum Pole	10 1/2"	17.5	13.8	11.2	9.2	7.7	6.5	5.6	4.8	4.1	3.5	18 1/2ft					

Allowable EPA calculated according to AASHTO 1994 and include allowance for 1/3 gust factor. See Mounting Configuration pages for fixture arm weight and EPA values.

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Project Number: 271565
Phone: 1 212 896 3000

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Type:
ALP04

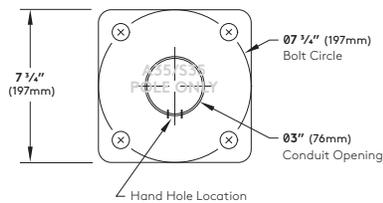
Page 5 of 8

Pole Information

Refer to pole specification sheets for construction details, anchorage information and additional options.

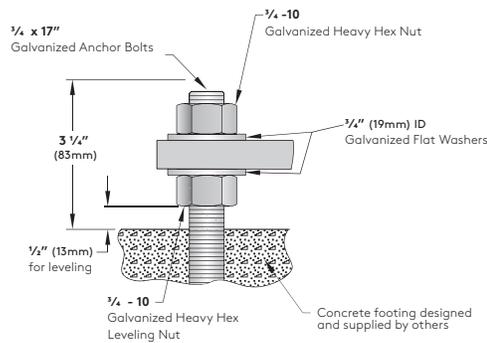
Bolt Circle for A35 & S35

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



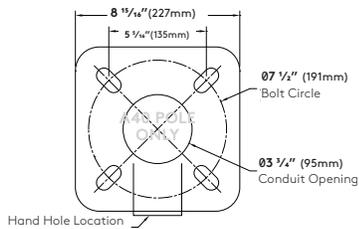
Note: Adequate drainage must be provided in concrete foundation.

Anchor Bolt Detail for A35 & S35



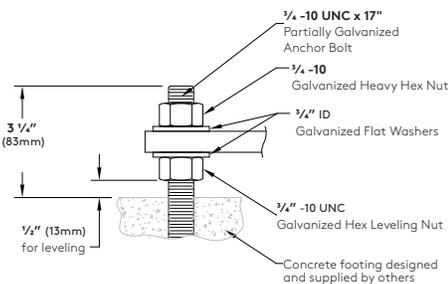
Bolt Circle for A40

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



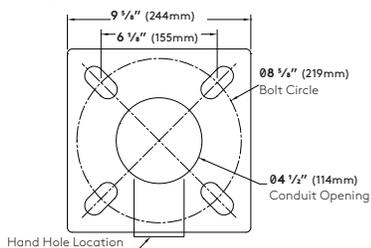
Note: Adequate drainage must be provided in concrete foundation.

Anchor Bolt Detail for A40

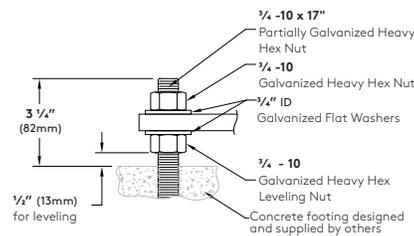


Bolt Circle for AT535

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



Anchor Bolt Detail for AT535



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Page 5 of 12
(Rev. 02/2020)
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Phone: 1 212 896 3000

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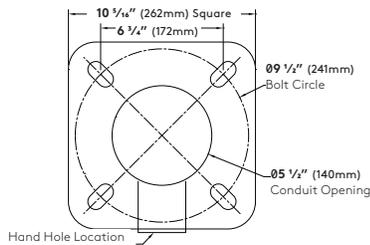
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ALP04
Page 6 of 8

Pole Information

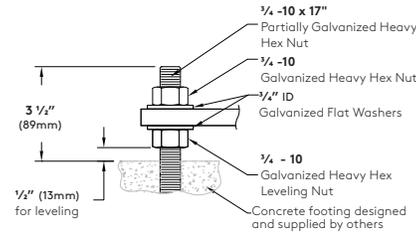
Refer to pole specification sheets for construction details, anchorage information and additional options.

Bolt Circle for AT64

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown

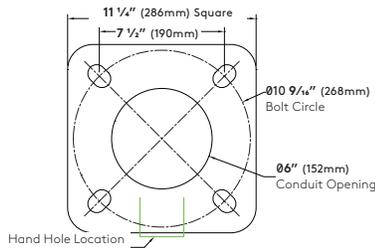


Anchor Bolt Detail for AT64

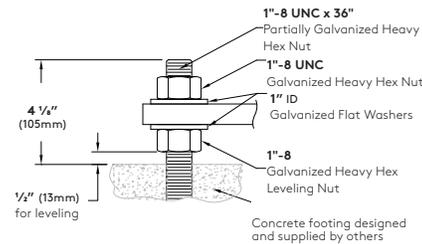


Bolt Circle for AT74

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown



Anchor Bolt Detail for AT74



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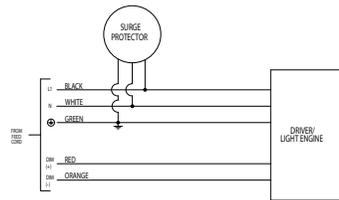
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Page 7 of 8

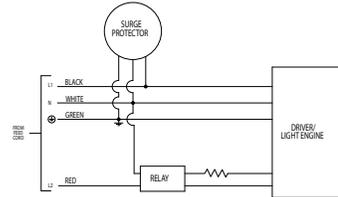
ELECTRICAL SPECIFICATIONS									
CCT	3000K/4000K								
CYLINDER	CL Cylinder Standard						FL Cylinder Standard		
OPTICS	R1, R2, R3, and R4			RSR and R5S			DB		
Light Engine/ Electrical Specs	Delivered Lumens (lm)	Wattage (W) 120-277 / 347-480	Efficacy (lm/W)	Delivered Lumens (lm)	Wattage (W) 120-277 / 347-480	Efficacy (lm/W)	Delivered Lumens (lm)	Wattage (W) 120-277 / 347-480	Efficacy (lm/W)
5G150	1316	14.2 / 18	92.9	1488	14.2 / 18	105.0	1327	14.2 / 18	93.5
5G250	2193	23.6 / 27	92.9	2480	23.6 / 27	105.0	2211	23.6 / 27	93.5
5G350	3070	33.1 / 35	92.9	3471	33.1 / 35	105.0	3096	33.1 / 35	93.5
5G450	3948	42.5 / 44	92.9	4463	42.5 / 44	105.0	3981	42.5 / 44	93.5

Wiring

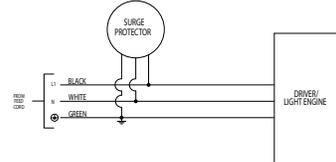
0-10V Dimming Option (DM) Wiring for 120-277V
100% light output at 10V, down to 1% light output at 0V.



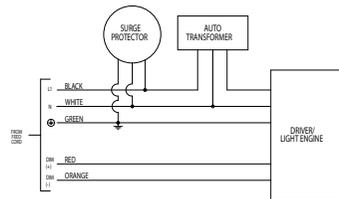
Hi-Lo Switching Option (HL30/HL50) Wiring
120/240/277V. When red is energized, light output will be at 'Lo' level.



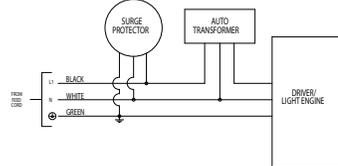
Standard Wiring for 120-277V
Standard wiring for 120-277V with no additional options.



0-10V Dimming Option (DM) Wiring for 347/480V
100% light output at 10V, down to 1% light output at 0V.



Standard Wiring for 347/480V
Standard wiring for 347/480V with no additional options.



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Page 7 of 12
(Rev. 02/2020)
LAL_ss_v1.2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Lanova LED

selux

Type:
ALP04

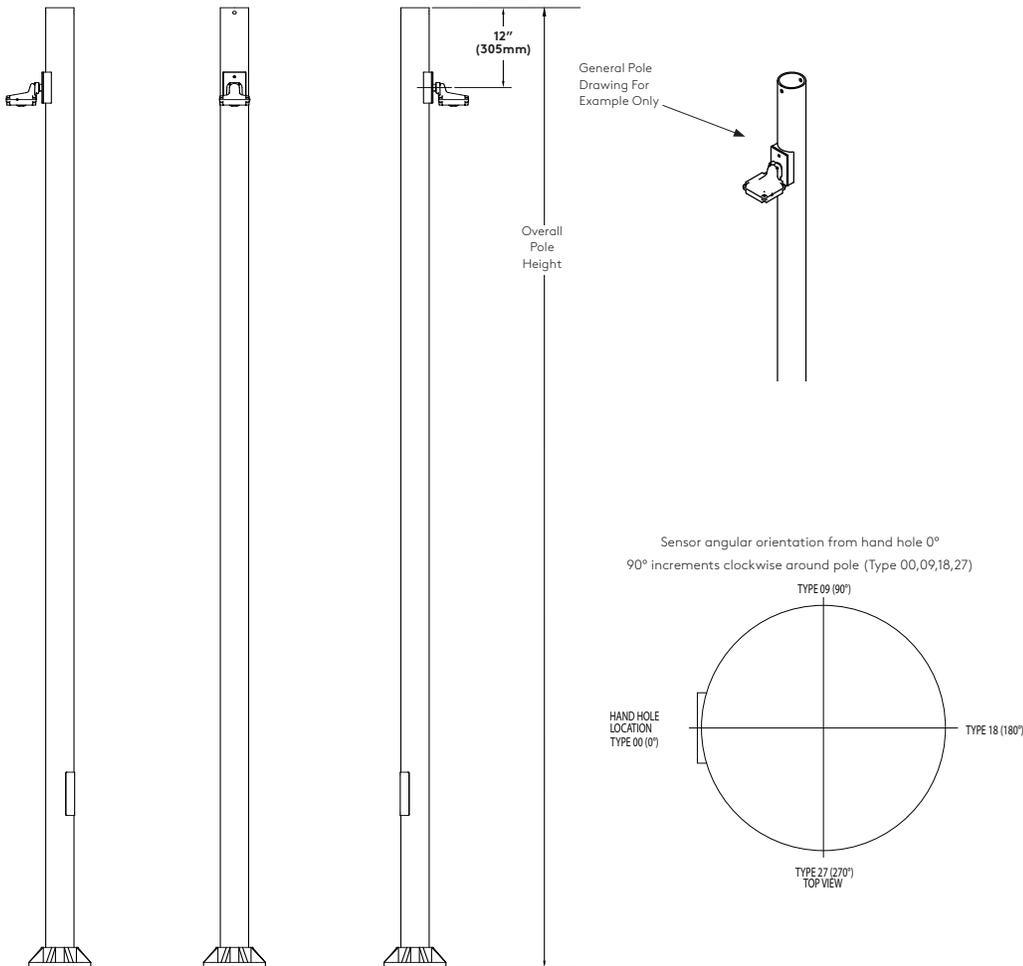
Page 8 of 8

Pole Motion Sensor

The Selux outdoor rated sensor incorporates Passive Infrared (PIR) technology for motion sensing and also includes a built in photocell. Designed to mount directly through a 1/2" KO in a single gang faceplate on pole/column, the SBO utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size while preventing false tripping from the environment.

Series	Optics	Hand Hole Orientation	Program	Color	Photocell Feature	Voltage
MS Motion Sensor	1 270° coverage - Single Sensor	00	D0 (0V=0%)	WH White	Y Yes	UNV
		09	D1 (1V=10%)	BK Black	N No	347
		18	D3 (3V=30%)	BZ Bronze		480
		27	D5 (5V=50%)			

NOTE: Motion sensor comes programmed at 30% dimmed level with a 5 min. delay as default. All programming required after shipping by others.



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ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: Selux : Lenova LED Catenary Pole

Description: 14ft Catenary Light Pole

Fixture Wattage: NA W

Lumen Output: NA lumen

Lamp CRI: NA

Lighting Controls: NA

Voltage: NA

Fixture Finish: Galvanized, Clear anodized or custom RAL

Lamp CCT: NA

Assembly Code: AT64-14-SP-XX

AT64/AT74 6" - 4"/7" - 4" Round Tapered Aluminum Poles



Type:
ALP05
Page 1 of 5

Lighting Notes:

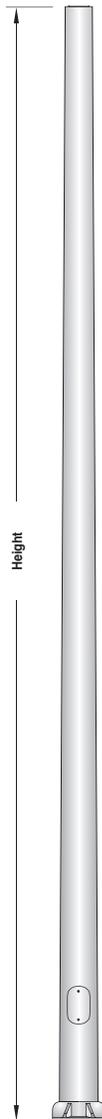
1. Finish to be specified by architect.
2. Contractor to coordinate pole mounting with civil scope and other services according to manufacturer recommendations.
3. Height of pole to be 14'.
4. Power receptacles hidden in base.
5. Manufacturer to confirm pole size to support AC01 Catenary System.
6. Landscape Architect to Specify Base Cover.
7. Add alternate: Standard Finish

Project: _____

Type: _____ **Qty:** _____

Ordering Format: _____ - _____ - _____ - _____

Series Height Finish Option



Pole Series	Height	Wall Thickness	EPA Information (ft ²)					Finish	Options
			70 mph	80 mph	90 mph	100 mph	110 mph		
AT64	12 12 ft.	0.156	20.0	20.0	16.3	13.1	10.7	WH White	BC9 Optional base cover for AT64 poles only
AT64	14 14 ft.	0.156	20.0	17.7	13.7	10.9	8.9	BK Black	BC10 Optional base cover for AT74 poles only
AT64	16 16 ft.	0.156	19.0	14.1	10.8	8.6	7.0	BZ Bronze	REC GFCI Receptacle w/ weather-proof cover
AT64	18 18 ft.	0.156	15.7	11.5	8.7	6.9	5.5	SV Silver	REC2 GFCI Receptacle with weather-proof padlockable in-use cover
AT64	20 20 ft.	0.156	13.5	9.6	7.1	5.6	4.4	SP Specify Premium Color	T30 Supplied with Ø3" Tenon, 4" high
AT64	23 23 ft.	0.156	10.0	6.8	4.8	3.7	2.8		T35 Supplied with Ø3 1/2" Tenon, 4 1/2" high
AT74	18 18 ft.	0.156	20.0	17.7	13.7	10.9	8.8		Motion Sensor w/ Optional Photocell (Meets Title 24 Requirements) See Pole Spec Sheet for Order Code.
AT74	20 20 ft.	0.156	20.0	14.9	11.4	9.0	7.3		
AT74	23 23 ft.	0.156	15.8	11.4	8.5	6.6	5.3		
AT74	24 24 ft.	0.156	14.8	10.5	7.8	6.0	4.7		
AT74	25 25 ft.	0.156	13.4	9.5	7.0	5.4	4.2		

Other heights available, consult factory. EPA Calculations allow for 1.3 Gust Factor

For PC or PCT refer to fixture spec sheets (where applicable). For other options please consult factory.

Standard Specifications

Pole Shaft - Pole shaft is spun from seamless 6063 alloy aluminum which is heat treated to a T6 temper.

Anchor Base - Anchor base is cast from 356 alloy aluminum which is heat treated to a T6 temper. The anchor base casting and shaft are joined by a continuous circumferential weld at the outside top and inside bottom of the anchor base.

Access Hole - The opening measures 3" x 5" (76 x 127mm) for 6" Dia. poles 4" x 6" (102 x 152mm) for 7" Dia. poles, with a cast 356 aluminum tempered to a T6 condition reinforced frame. Frame is supplied with integral ground lug connection located inside pole. Flush fitting cover is supplied with tamper resistant fasteners.

Anchor Bolts - Pole is supplied with four steel hot dip galvanized anchor

bolts, 3/4" x 17" for 6" poles and 1" x 36" for 7" poles, each with two nuts, two flat washers and one lock washer.

Nut Cover - Poles come standard with cast aluminum nut covers.

Exterior Luminaire Finish - Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultra violet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI.

Standard exterior colors are White (WH), Black (BK), Bronze (BZ), and Silver (SV). Selux premium colors

(SP) are available, please specify from your Selux color selection guide. Hot Dip Galvanized finish (GV) on all steel parts also available.

All Poles are constructed per AASHTO standards for structural supports for highway signs, luminaires and traffic signals as published in 1994.

A consideration of field conditions such as (but not limited to) wind zone, height, vibration must be given by the designer/specifier for the appropriate application.

Performance of poles is dependent upon proper support/attachment of pole to adequate foundation design. Selux does not design or offer recommendations for foundations. EPA values assume that the bottom of the pole is at grade level.

Call Selux (1-800-SELUXCS) if there are any questions, or for any assistance in determining suitability with appropriate fixtures.

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FAX (845) 834-1401
www.selux.us
A64-74-0118-01 (ss+v3.38)

Union Made Affiliated
with IBEW Local 363

Made in the USA

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ARUP
Project Number: 271565
Phone: 1 212 896 3000

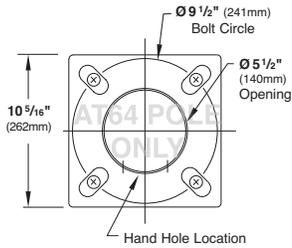
AT64/AT74 6" - 4" / 7" - 4" Round Tapered Aluminum Poles



Type:
ALP05
Page 2 of 5

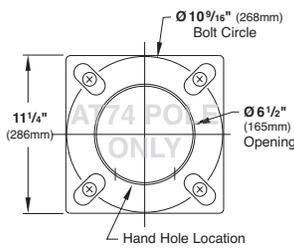
Bolt Circle (AT64)

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown.

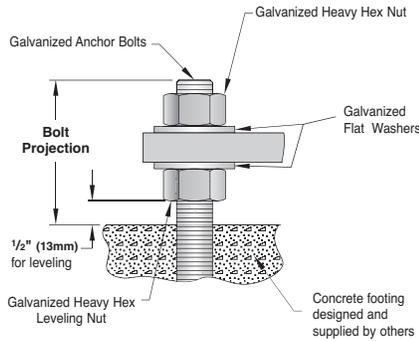


Bolt Circle (AT74)

Use caution when setting anchor bolts. Bolts must be vertically straight and centered on dimensions shown.



Anchor Bolt Detail



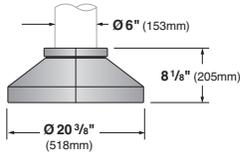
Note: Adequate drainage must be provided in concrete foundation.

Additional Spec Information

Pole Series	Top Diameter	Bottom Diameter	Handhole Size	Base Size	Conduit Opening	Bolt Size	Bolt Circle	Bolt Projection
AT64	4"	6"	3" x 5"	10 ⁵ / ₁₆ " x 10 ⁵ / ₁₆ "	5 ¹ / ₂ "	3/4" x 17"	9 ¹ / ₂ "	3 ¹ / ₂ "
AT74	4"	7"	4" x 6"	11 ¹ / ₄ " x 11 ¹ / ₄ "	6 ¹ / ₂ "	1" x 36"	10 ⁹ / ₁₆ "	4 ¹ / ₈ "

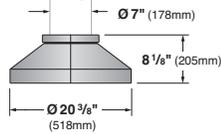
BC9 Optional Base Cover (AT64)

Die cast aluminum, two-piece field installable base cover.



BC10 Optional Base Cover (AT74)

Die cast aluminum, two-piece field installable base cover.



AT64/AT74 6" - 4" / 7" - 4" Round Tapered Aluminum Poles

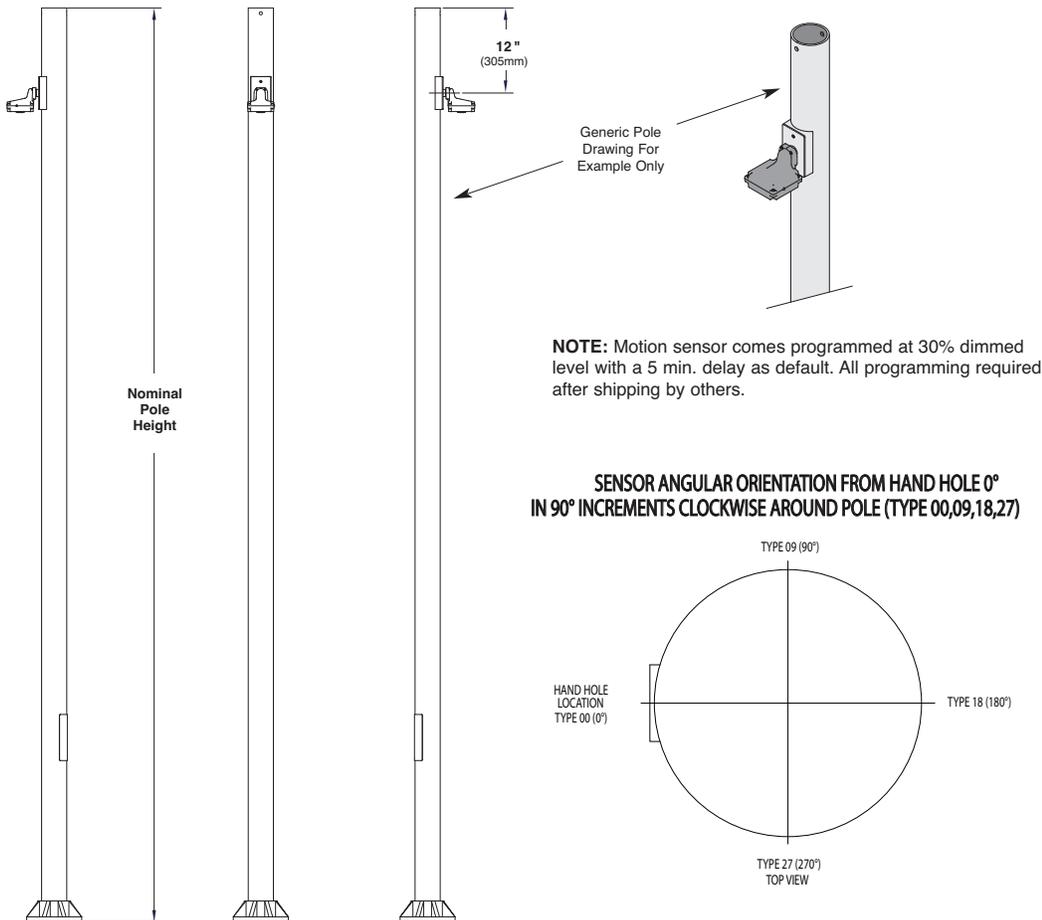


Type: **ALP05**
Page 3 of 5

Motion Sensor

The Selux outdoor rated sensor incorporates Passive Infrared (PIR) technology for motion sensing and also includes a built in photocell. Designed to mount directly through a 1/2" KO in a single gang faceplate on pole/column, the SBO utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size while preventing false tripping from the environment.

Series	Optics	Hand Hole Orientation	Program	Color	Photocell Feature	Voltage
MS Motion Sensor	1 270° coverage - Single Sensor	00	D0 0V=0%	WH White	Y Yes	UNV 347 480
		09	D1 1V=10%	BK Black	N No	
		18	D3 3V=30%	BZ Bronze		
		27	D5 5V=50%			
		Goes from dim level to full bright upon motion				



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A64-74-0118-03 (ss-v3.38)

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ARUP
Project Number: 271565
Phone: 1 212 896 3000

AT64/AT74 6" - 4" / 7" - 4" Round Tapered Aluminum Poles

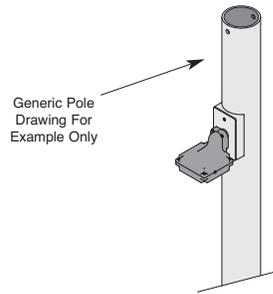


Type:
ALP05
Page 4 of 5

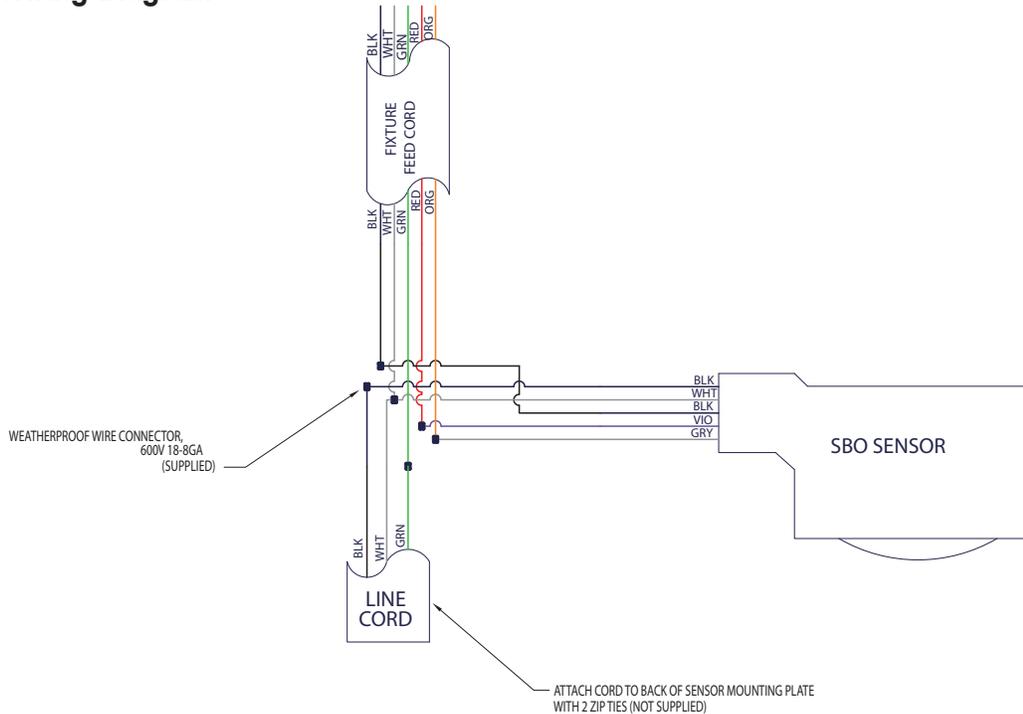
Motion Sensor Features

Features

- 100% Digital PIR Detection, excellent RF Immunity
- 270° coverage pattern
- Up to 30ft mounting
- IP66 Rated for outdoor applications
- Built-in 1kV surge protection
- No minimum load requirements
- Made for LED light source
- Interchangeable hot and load wires - impossible to wire backwards
- Adjustable time delays, max/min dim levels and ramp rates
- Programming button accessible without opening sensor or removing gaskets
- No field calibration or sensitivity adjustments required
- Non-volatile setting memory
- Convenient test mode
- Suitable for Title 24 applications



Wiring Diagram



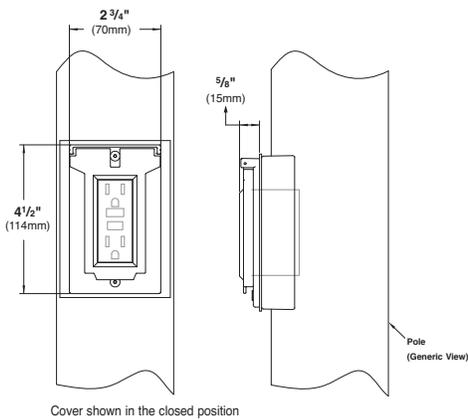
AT64/AT74 6" - 4"/7" - 4" Round Tapered Aluminum Poles

selux

Type:
ALP05
Page 5 of 5

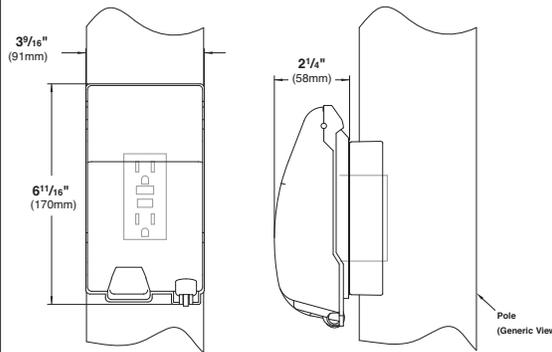
Optional Accessories

GFCI Receptacle with flat cover (REC) - 120V 15A GFCI duplex receptacle with weather-proof, self-closing non-lockable cover; located 36" (915mm) from base of pole, inline with handhole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel. For use with 120v applications only, for other fixture voltages, please consult factory for wire segregation requirements.



Cover shown in the closed position

GFCI Receptacle with in-use cover (REC2) - 120V 15A GFCI duplex receptacle with weather-proof, self-closing padlockable in-use cover; located 36" (915mm) from base of pole, inline with handhole. Receptacle is intended only for portable tools or other portable equipment to be connected to outlet only when attended by operating personnel. For use with 120v applications only, for other fixture voltages, please consult factory for wire segregation requirements.



*Physical size subject to change pending availability

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

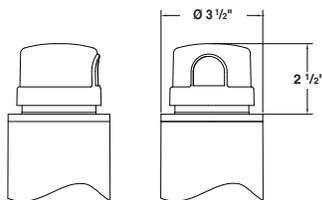
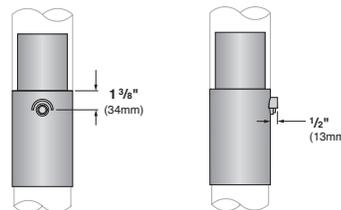


Photo Cell Tenon (PCT) - Button type photocell mounted in cast aluminum pole top tenon. Tenon has integral cast visor to prevent false start/stop cycle and can be oriented for optimum performance. Refer to fixture spec sheet to determine if this option is applicable.



Manufacturer: BK : Delta Star
Description: Spotlight with wide flood optic (31deg)

Fixture Wattage: 7 W
Lumen Output: 406 lumen
Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 12 V
Fixture Finish: Standard finish to be specified by architect
Lamp CCT: 3000K
Assembly Code: DS-LED-e65-WFL-A9-XXX-12-C

DELTA STAR LED

IP66 RATED

DATE: PROJECT: TYPE:

CATALOG NUMBER LOGIC:



*Designed for use with LED transformer. Requires magnetic low voltage dimmer.

**Please see Adjust-e-Lume photometry to determine desired intensity.

***The 360SL cost is already included in the price of UPM, UPM dual, and Power Canopy.

CATALOG NUMBER LOGIC

Example: B - DS - LED - e64 - SP - A7 - BZP - 12 - 11 - A - 360SL

MATERIAL

(Blank) - Aluminum B - Brass S - Stainless Steel

SERIES

DS - Delta Star

SOURCE

LED - with Integral Dimming Driver (25W min. load when dimmed)*

LED TYPE

e64 - 7W LED/2700K e66 - 7W LED/4000K
e65 - 7W LED/3000K e74 - 7W LED/Amber

OPTICS

NSP - Narrow Spot (13°) MFL - Medium Flood (23°)
SP - Spot (16°) WFL - Wide Flood (31°)

ADJUST-E-LUME® OUTPUT INTENSITY**

A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1

FINISH (See page 2 for full-color swatches)

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)

Also available in RAL Finishes

Brass Finishes (MAC, POL, MIT)

Stainless Steel Finishes (MAC, POL)

LENS TYPE

12 - Soft Focus 13 - Rectilinear

SHIELDING

11 - Honeycomb Baffle

CAP STYLE

A - 45°
B - 90°
C - Flush Lens
D - 45° Less Weephole (Interior use only)
E - 90° Less Weephole (Interior use only)
F - 90° with Flush Lens

OPTIONS

360SL - Knuckle Mounting System***

Type:

AS01

Page 1 of 9

Lighting Notes:

1. Fixture mounted to tree by means of a tree strap.
2. Coordinate remote driver locations in nearest possible location with Landscape Architect.
3. Contractor to coordinate conduit routing to driver with electrical and civil scope.

B-K LIGHTING

MADE IN THE USA

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01/15/2020 SKU-739 SUB000930

ARUP

Project Number: 271565
Phone: 1 212 896 3000

DELTA STAR LED

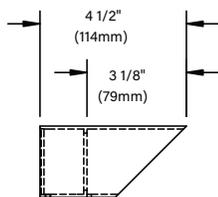
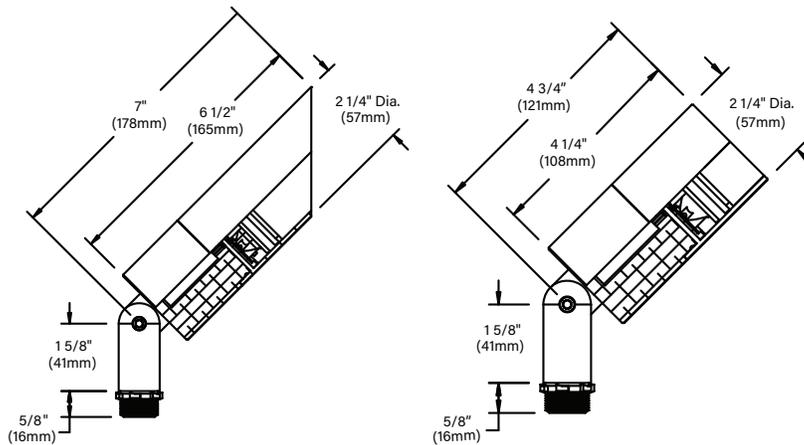
IP66 RATED

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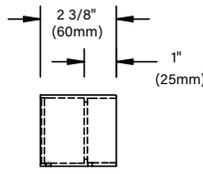
Type:

AS01

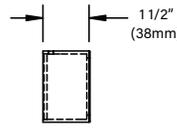
Page 2 of 9



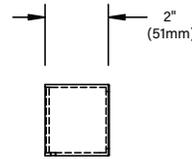
A/D CAP



B/E CAP



C CAP



F CAP

STANDARD FINISHES



Click Here to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES



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01/15/2020 SKU-739 SUB000930

ARUP

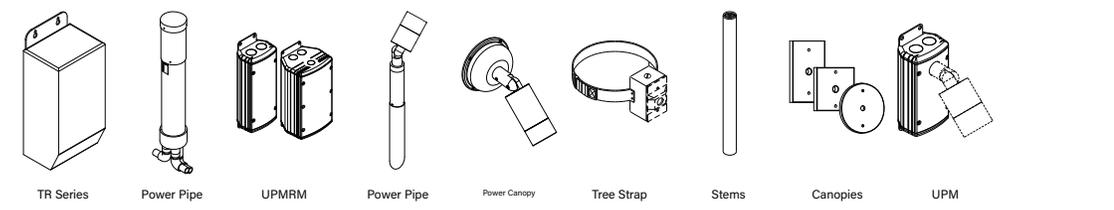
Project Number: 271565
Phone: 1 212 896 3000

DELTA STAR LED IP66 RATED

DATE: _____ PROJECT: _____ TYPE: _____

Type: **AS01**
Page 3 of 9

Accessories (Configure separately)



SPECIFICATIONS

ELECTRICAL	WATTAGE	7W LED
	WIRING	XLPE, 18GA,150C, 600V, rated and certified to UL3321.
	REMOTE TRANSFORMER	For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.
PHYSICAL	MATERIALS	Furnished in copper-free aluminum (6061-T6), brass (360) or stainless steel (304).
	BODY	Unibody design with enclosed, water-proof wireway and integral heat sink is fully machined from solid billet.
	KNUCKLE	LOCK Knuckle is integral to the body and features an interior taper machined from solid billet and a second, reverse angle taper allowing full 180° vertical adjustment without the use of aim-limiting serrated teeth. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lbs. static load prior to movement for optical alignment with a 1/2" pipe thread for mounting. Optional 360SL provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.
	CAP	Fully machined and accommodates two (2) lens or louver media.
	LENS	Shock-resistant, tempered glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.
	LED	Integrated solid state system and modular design with electrical disconnects allow for easy field upgrade and maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements and exceeds ENERGY STAR* lumen maintenance requirements. LM-80 certified components. Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current (limited to <250mA non-dimming). Output, overvoltage, open-circuit, and short circuit protected. Conforms to Safety Std. C22.2 No. 250.13-12.
	DIMMING	Line voltage dimmable via magnetic low voltage dimmer with dedicated neutral conductor. Remote magnetic transformer with LED loads should be loaded to 25% of the transformer VA (watts) rated value.
	ADJUST-E-LUME	Integral electronics allow for dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed. Specify factory preset output intensity.
	OPTICS	Interchangeable OPTIKIT modules permit optical field changes. Color-code: Narrow Spot (NSP) = red; Spot (SP) = green; Medium Flood (MFL) = yellow; Wide Flood (WFL) = blue.
	HARDWARE	Tamper-resistant, stainless steel hardware. LOCK aiming screw is black oxide treated for additional corrosion resistance.
FINISH	StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Powder coat or metal finish options available for brass material and metal finish option only for stainless steel material.	
WARRANTY	5-year limited warranty.	
CERTIFICATION & LISTING	ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP66 Rated. Made in the USA with sustainable processes.	



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ARUP
Project Number: 271565
Phone: 1 212 896 3000

LAMP & DRIVER DATA (e64, e65, e66, e74)

DATE: PROJECT: TYPE:

Type:

AS01

Page 4 of 9

DRIVER DATA	Input Volts	InRush Current	Operating	Dimmable	Operation Ambient Temperature
	12VAC/DC 50/60Hz	<250mA (non-dimmed)	700mA	Magnetic Low Voltage Dimmer	-22°F-194°F (-30°C - 90°C)

BK No.	LM79 DATA			L70 DATA	OPTICAL DATA		
	CCT (Typ.)	CRI (Typ.)	Input Watts (Typ.)	Minimum Rated Life (hrs.) 70% of initial lumens (L ₇₀)	Angle	CBCP	Delivered Lumens
e64	2700K	80	7	50,000	13°	5993	456
	2700K	80	7	50,000	16°	4546	445
	2700K	80	7	50,000	23°	1726	397
	2700K	80	7	50,000	31°	1131	399
e65	3000K	80	7	50,000	13°	6131	466
	3000K	80	7	50,000	16°	4650	455
	3000K	80	7	50,000	23	1766	406
	3000K	80	7	50,000	31°	1157	409
e66	4000K	80	7	50,000	13°	6889	524
	4000K	80	7	50,000	16°	5225	511
	4000K	80	7	50,000	23°	1984	456
	4000K	80	7	50,000	31°	1300	459
e74	Amber (590nm)	~	7	50,000	~	~	~

OPTICS

Optic	Angle
NSP - Narrow Spot	13°
SP - Spot	16°
MFL - Medium Flood	23°
WFL - Wide Flood	31°

B-K LIGHTING

MADE IN THE USA

559.438.5800 | INFO@BKLIGHTING.COM | BKLIGHTING.COM

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ARUP

Project Number: 271565
Phone: 1 212 896 3000

TREE STRAP JUNCTION BOX (LOW VOLTAGE / LED)

ORDER FIXTURE SEPARATELY

DATE: PROJECT: TYPE:

CATALOG NUMBER LOGIC:



CATALOG NUMBER LOGIC

Example: B - TS - TMC - BLP - 18

MATERIAL

(Blank) - Aluminum B - Brass S - Stainless Steel

SERIES

TS - Tree Strap

MOUNTING ACCESSORY

TMC - Tree Mount Canopy Junction Box

FINISH (See below for full-color swatches)

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TFX, WCP, WIR)

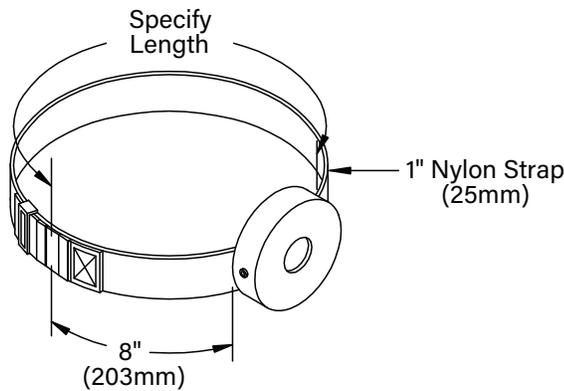
Also available in RAL Finishes.

Brass Finishes (MAC, POL, MIT)

Stainless Steel Finishes (MAC, POL)

ADJUSTABLE STRAP LENGTH

Minimum 3"adjustable strap (standard)



STANDARD FINISHES



[Click Here](#) to view larger, full-color swatches of all available finishes on our website.

PREMIUM FINISHES



Type:

AS01

Page 5 of 9

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04/24/2020 SKU-841 SUB-2136-00

ARUP

Project Number: 271565
Phone: 1 212 896 3000

TREE STRAP JUNCTION BOX (LOW VOLTAGE / LED)

ORDER FIXTURE SEPARATELY

DATE:	PROJECT:	TYPE:
-------	----------	-------

Type:

AS01

Page 6 of 9

Accessories (Configure separately)

SPECIFICATIONS

<p>PHYSICAL</p>	<p>MATERIALS</p> <p>CANOPY</p> <p>INSTALLATION</p> <p>FINISH</p> <p>WARRANTY</p> <p>CERTIFICATION & LISTING</p>	<p>Furnished in copper-free aluminum (6061-T6), brass (360) or stainless steel (304).</p> <p>2 9/16" diameter canopy. Machined from solid billet with chamfered edge. 7/8" dia. slip hole for use with 1/2" I.P. threaded nipple.</p> <p>Tree Strap mounting system facilitates non-invasive installation. Adjustable nylon strap is mold and mildew resistant and will not hinder tree growth.</p> <p>StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Powder coat or metal finish options available for brass material and metal finish option only for stainless steel material.</p> <p>5-year limited warranty.</p> <p>Suitable for indoor or outdoor use. RoHS Compliant. Made in USA with sustainable processes.</p>
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04/24/2020 SKU-841
SUB-2136-00

ARUP

Project Number: 271565
Phone: 1 212 896 3000

PM1RM REMOTE LOW VOLTAGE (TRANSFORMER - TREE STRAP) ORDER FIXTURE SEPARATELY.

DATE: PROJECT: TYPE:

CATALOG NUMBER LOGIC:

Type:

AS01

Page 7 of 9



**75W max. electronic transformer allows up to 10' spacing between fixtures. For use with LED fixtures. For use with MR16 LED Lamp fixtures*

***105-300 VAC, 50/60 Hz, non-dimming. For use with LED fixtures.*

****Non-dimming.*

CATALOG NUMBER LOGIC
Example: PM1RM - TS-18 - TRSS75 - BLP - 120 - SC
MATERIAL
Aluminum
SERIES
PM1RM - Universal Power Module 1 Remote
MOUNTING
TS-Length - Tree Strap (Specify adjustable strap length) 18" Standard Min.
TRANSFORMER TYPE
TRSS75 - 75VA Electronic Transformer*
TRe20 - TRe20 Electronic Transformer**
FINISH
Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)
Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)
(Also available in RAL Finishes. See submittal SUB-1439-00)
INPUT VOLTAGE
(Blank) - For use with TRe20 Electronic Transformer**
120 - 120 VAC (For use with TRSS75)
230 - 230 VAC*** (Electronic only, for use with TRSS75)
277 - 277 VAC*** (For use with TRSS75)
OPTIONS
SC - Safety Cable for use with Tree Strap Mount. Cable length to match strap length. 18" Standard Min.
MB - Mounting Brackets

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ARUP

Project Number: 271565
Phone: 1 212 896 3000

PM1RM REMOTE LOW VOLTAGE (TRANSFORMER - TREE STRAP) ORDER FIXTURE SEPARATELY.

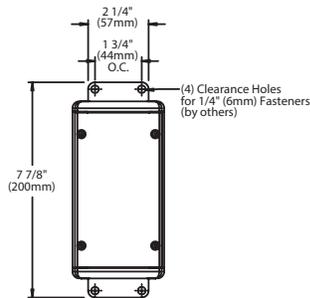
DATE: PROJECT: TYPE:

Type:

AS01

Page 8 of 9

OPTIONAL MOUNTING BRACKET



⚠ REMOTE WIRING

Electronic Transformer

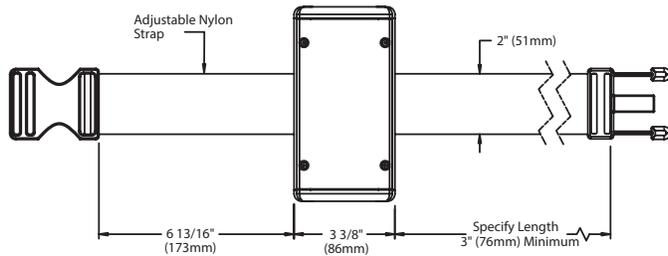
Remote transformer installations require interconnected wiring between the lamp and transformer (by others). Electronic transformers have specific wiring requirements between these components. Transformer manufacturers regularly recommend the following wiring details for such installations:

- Do not exceed 8 foot overall wiring distance using 12 gauge copper wire.

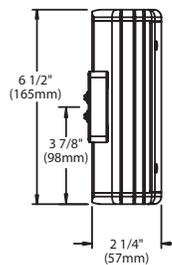
Please consult the factory through your local B-K Lighting Sales Representative prior to finalizing any installation detail utilizing remote transformer wiring.

Failure to comply with specific wiring requirements will void product warranty

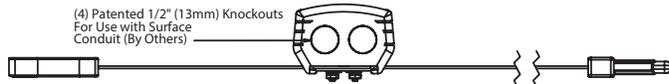
FRONT VIEW



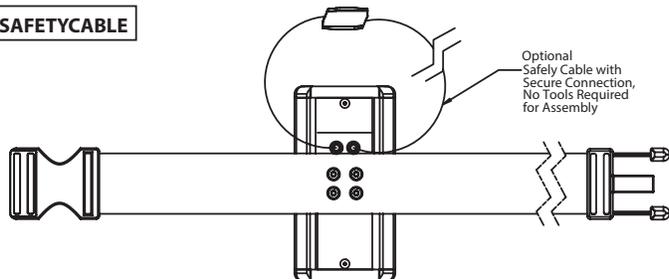
SIDE VIEW



END VIEW



SAFETY CABLE



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ARUP

Project Number: 271565
Phone: 1 212 896 3000

PM1RM REMOTE LOW VOLTAGE (TRANSFORMER - TREE STRAP) ORDER FIXTURE SEPARATELY.

DATE:	PROJECT:	TYPE:
-------	----------	-------

Type:

AS01

Page 9 of 9

Accessories (Configure separately)

SPECIFICATIONS

Electrical	TRSS-75 TRANSFORMER	For use with halogen lamps. One (1) 75VA electronic low voltage transformer. 120, 230, or 277VAC primary voltage. 120V is dimmable (40W minimum load) using electronic low voltage dimmer. 10 watt minimum load (non-dimmed). 50/60Hz. 11.6VAC secondary voltage. >.93 Power Factor. <20% THD. Operating frequency >10kHz. Primary overload protection and RFI filtration. Soft start circuitry extends lamp life.
	TRe20 ELECTRONIC TRANSFORMER	One (1) 20VA electronic low voltage transformer 105-330VAC primary voltage. 1W minimum load. 20W maximum load. 50/60Hz. Non-dimming. 12VDC secondary voltage. >90% Power Factor. >80% efficiency (under full load). Inrush current limited to <5A max. Thermal shutdown with autorestart. Overload, short circuit, and open circuit protection.
PHYSICAL	TREE INSTALLATION	Tree Strap mounting system facilitates non-invasive installation. Adjustable nylon strap is mold and mildew resistant and will not hinder tree growth. Stainless steel safety cable maintains UPM mounting when nylon strap is disengaged.
	HOUSING	Copper free, aluminum extrusion with die cast end caps. Surface mounted with flow through back channel to prevent water and debris collection. Machined aluminum cover with countersunk holes for flush hardware installation. Tamper-resistant, captive, black oxide stainless steel mounting screws. Front access for ease of installation and inspection. Two (2) 1/2" NPT female conduit entries per end cap for through wiring.
	INSTALLATION TETHER	Stainless steel cable with integral loop allows cover to temporarily suspend from housing during installation to simplify wire connection and component attachment.
	PATENTED KNOCKOUTS	Four (4) 1/2" NPT, machined aluminum knockouts. High temperature, silicone 'O' Ring for water-tight seal. Patented design allows knockout to be reinserted without compromising seal integrity.
	FINISH	StarGuard, our 15-stage, chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Finish to match fixture. (specified separately).
	WARRANTY CERTIFICATION & LISTING	5-year limited warranty. Certified to CAN/CSA/ANSI Standards. UL Listed. NEMA 4X / IP66 Rated Enclosure. RoHs compliant. Made in USA with sustainable processes.



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ARUP
Project Number: 271565
Phone: 1 212 896 3000

Pond Pavilion

Type:

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: LED LINEAR : HYDRA HD IP67
Description: Under bench linear LED wet rated

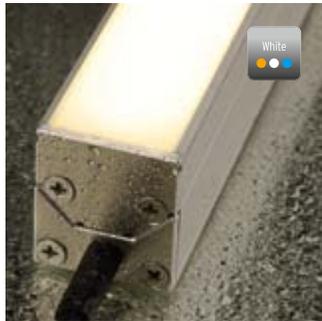
Fixture Wattage: 80 W/ft
Lumen Output: 151 lumen/ft
Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Standard
Lamp CCT: 3000K
Assembly Code: HD6



XOOLUM IP67 Static White



24 V, modular, light intensive linear LED luminaire in IP67 with adjustable luminaire head (45°) and 3 clear encapsulated reflector optics. Available in silver or black profile color as surface-mounted version. 2.56' black cable with open end on one side. High quality and homogeneous illumination. Japanese LED. CRI up to 95. Binning 3 Mac-Adam. Lifetime of > 60,000 hrs (L80/B10). Installation friendly, attachable and durable luminaire housing with a small cross section made from extruded and anodized aluminum with screwed Al-end caps. Engineered in Germany.

Project name _____
Fixture type _____ Phase _____
Specifier _____ Date _____

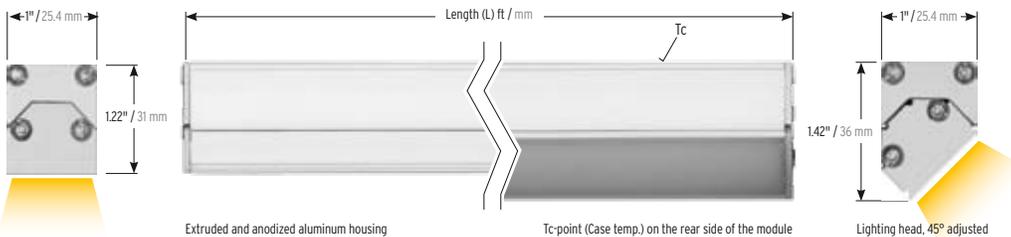
Type:
AL02(POND)

Page 1 of 5

Lighting Notes:

1. Refer to Architects Drawings for Length

Dimensions & available lengths



Fixture build to length (not field cuttable):
L_{min}: 7.8'; L_{max}: 13.16' (HD25: 9.88'); in 2.46" increments
L_{min}: 198 mm; L_{max}: 4,010 mm (HD25: 3,010 mm); in 62.5 mm increments

Electrical & output data

Voltage	24 Volt (23 V _{min} , 25 V _{max})			
Temperature ²	T _{Cmin} = -13°F / -25°C, T _{Cmax} (Table below)			
Storage temperature	T _{Smin} = -22°F / -30°C, T _{Smax} = 185°F / 85°C			
Ambient temperature	T _{Amin} = -13°F / -25°C, T _{Amax} (Table below)			
CRI	up to 95			
R9	up to 65			
XOOLUM™ HYDRA	HD6	HD10	HD15	HD25
Power (W/ft / W/m) ¹	1.8 / 6	3.1 / 10	4.6 / 15	7.6 / 25
Efficacy (lm / W) @ W850	52	51	55	53
max. length (ft / m)	13.1 / 4	13.1 / 4	13.1 / 4	9.8 / 3
Temperature Tc-point (T _{Cmax}) ²	140°F / 60°C	140°F / 60°C	140°F / 60°C	149°F / 65°C
Ambient temperature (T _{Cmax})	104°F / 40°C	104°F / 40°C	104°F / 40°C	95°F / 35°C



Lifetime
L80/B10
> 60,000 h



LM 79 compliant



LM 80 compliant



UV protected



Resistant to solvents



Saltwater resistant



Temporary immersion protection



Impact resistant

Color temperature LED tape used ²	Color temperature delivered finished fixture	HD6 HD10 HD15 HD25			
		low output	lumen/feet (lm/ft) lumen/meter (lm/m) ¹		high output
● W820 2000 K	2400 K	54 / 180	90 / 300	145 / 480	234 / 770
● W822 2200 K	2700 K	60 / 200	103 / 340	164 / 540	267 / 880
● W825 2500 K	3000 K	69 / 230	118 / 390	188 / 620	307 / 1010
● W827 W927 2700 K	3500 K 3400 K	63 / 210	106 / 350	200 / 660	325 / 1070
● W830 W930 3000 K	3900 K 3800 K	63 / 210	106 / 350	212 / 700	346 / 1140
● W835 W935 3500 K	4600 K 4400 K	66 / 220	109 / 360	222 / 730	362 / 1190
● W840 W940 4000 K	5500 K 5600 K	66 / 220	112 / 370	228 / 750	371 / 1220
● W850 5000 K	7200 K	93 / 310	154 / 510	249 / 820	404 / 1330

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

³ In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see specification catalogue 2016/2017.



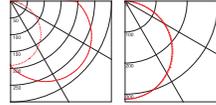
Type:
AL02(POND)
Page 2 of 5

Order code

Your order code	XOOLUM HYD	HD__	W_	_____	_____	_____	_____	_____	_____	IP67
Order code example	XOOLUM HYD	HD25	W8	27	2010	5	A	BS		IP67



- LED tape**
- HYDRA HD6 HD6
- HYDRA HD10 HD10
- HYDRA HD15 HD15
- HYDRA HD25 HD25
- Color rendering**
- > 80 8
- > 90 (only HD6, HD10) 9
- Color temperature delivered finished fixture** **Color temperature LED tape used**
- 2400 K 2000 K 20
- 2700 K 2200 K 22
- 3000 K 2500 K 25
- 3500 K **3400 K** 2700 K 27
- 3900 K **3800 K** 3000 K 30
- 4600 K **4400 K** 3500 K 35
- 5500 K **5600 K** 4000 K 40
- 7200 K 5000 K 50
- Length**
- L_{min}: 7.8" (198 mm);
- L_{max}: 13.16' (4,010 mm); HD25: 9.88' (3,010 mm);
- in 2.46" (62.5 mm) increments
- Profile color**
- Silver S
- Black B
- Options**
- Non adjustable NA
- Adjustable A
- Cable feed⁴**
- Back side, 6.56' / 2 m (through mounting channel) BS
- Front side, 6.56' / 2 m (through end caps) FS
- Ingress protection**
- IP67 IP67



opal encapsulation
DIN 5040:A50

⁴Cable feed



Please choose your accessories

Fixture comes with 6.56' / 2 m open end cable.

Mounting
<input checked="" type="checkbox"/> no further accessories required, fixture base profile = mounting channel

! Note: Number of mounting accessories depending on the profile length.

Mounting (optional)	Art.-#
<input type="checkbox"/> XOOLUM™ 007 Swivel-Angle Set +/- 45°	13000081
<input type="checkbox"/> VarioPendant 007 Slide Silver	13000157
<input type="checkbox"/> VarioPendant 007 Slide black	13000158

Length of profiles (ft / mm)	Number of mounting accessories
0.25 - 4 / 0 - 1,000	2
4 - 7 / 1,001 - 2,000	3
7 - 10 / 2,001 - 3,000	4
10 - 13 / 3,001 - 4,000	5

Recommended driver
<input type="checkbox"/> MEAN WELL HLG-100H-24A

Recommended control
<input type="checkbox"/> EldoLED LINEARdrive DC 180D

For max. cable length between driver and fixture please visit www.led-linear.com/cable-length

Safety and assembly information please see specification catalogue 2018/2019.

LED Linear™ GmbH

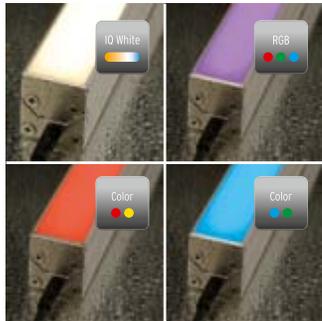
ARUP
Project Number: 271565
Phone: 1 212 896 3000



Type:
AL02(POND)

Page 3 of 5

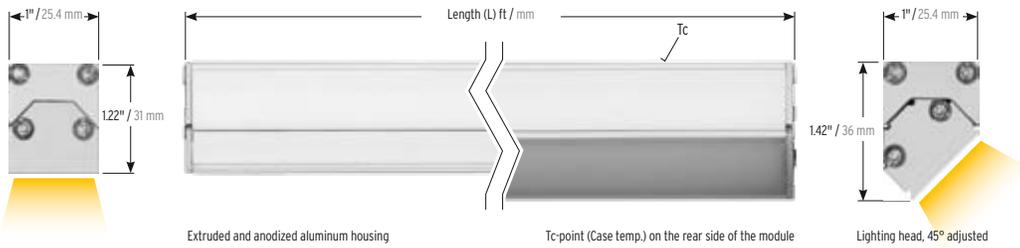
XOOLUM IP67 Tunable White/Color/RGB



24 V, modular, light intensive linear LED luminaire in IP67 with adjustable luminaire head (45°) and a homogeneous light emission surface due to an opal encapsulation. Available in silver or black profile color as surface-mounted version. 2.56' black cable with open end on one side. High quality and homogeneous illumination. Japanese LED. CRI up to 85. Lifetime of > 60,000 hrs (L80/B10 at Tunable White) resp. 30,000 hrs (L80 at RGB and Color). Installation friendly, attachable and durable luminaire housing with a small cross section made from extruded and anodized aluminum with screwed Al-end caps. Engineered in Germany.

Project name _____
 Fixture type _____ Phase _____
 Specifier _____ Date _____

Dimensions & available lengths



Fixture build to length (not field cuttable):

L_{min}: 7.8" (ATON Color: 5.31")
 L_{min}: 198 mm (ATON Color: 135 mm); L_{max}: 13.16'
 L_{max}: 4,010 mm; in 2.46" increments (ATON Color: 4.92")
 in 62.5 mm increments (ATON Color: 125 mm)

Electrical & output data

Voltage	24 Volt (23 V _{min} , 25 V _{max})
Temperature ²	T _{Cmin} = -13°F / -25°C, T _{Cmax} = 158°F / 70°C
Storage temperature	T _{Smin} = -22°F / -30°C, T _{Smax} = 185°F / 85°C
Ambient temperature	T _{Amin} = -13°F / -25°C, T _{Amax} = 104°F / 40°C

XOOLUM™	IQ White ATON		RGB	ATON Color		ECO HD8	
	HD12	HD24	HD20	Red	Yellow	Blue	Green
Power (W/ft / W/m) ¹	3.7 / 12	7.3 / 24	6.7 / 22	2.4 / 8	2.4 / 8	2.4 / 8	2.4 / 8
Efficacy (lm / W) ¹	86	89	19	8	15	10	39
max. length (ft / m)	13.1 / 4	13.1 / 4	13.1 / 4	13.1 / 4	13.1 / 4	13.1 / 4	13.1 / 4
CRI	85	85	-	-	-	-	-
R9	20	20	-	-	-	-	-

LED tape	Color temperature ³	Color (λ _d)	lumen/feet (lm/ft) ²	
			lumen/meter (lm/m) ²	@ clear cover ¹
IQ White ATON HD12	W822 (2600 K) -	-	116 ⁴ / 380 ⁴	
IQ White ATON HD24	W840 (4900 K)	-	24 ⁴ / 790 ⁴	
RGB HD20	-	622 (R)/532 (G)/466 (B)	115 ⁴ / 376 ⁴	
ATON Color Red	-	625 nm	20 / 64	
ATON Color Yellow	-	595 nm	12 / 39	
ECO HD8 Blue	-	468 nm	24 / 78	
ECO HD8 Green	-	526 nm	94 / 309	



¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² The T_C-point should be measured in thermal equilibrium according to IEC EN 60598-1.

³ In case of IP67 products, tolerances in the color temperature can occur. For further explanation, please see specification catalogue 2016/2017.

⁴ When all single colors are at full power.

Safety and assembly information please see specification catalogue 2018/2019.

ARUP
 Project Number: 271565
 Phone: 1 212 896 3000

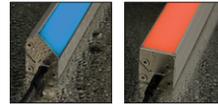


Type:
AL02(POND)

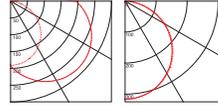
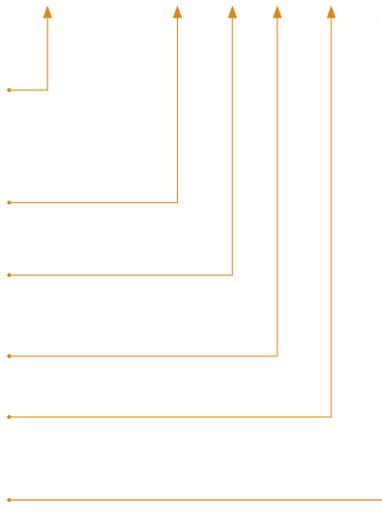
Page 4 of 5

Order code

Your order code	XOOLUM	_____	_____	_____	_____	_____	_____	IP67
Order code example	XOOLUM	ATON Color R	1010	S	A	BS	_____	IP67



- LED tape**
 IQ White ATON HD12 IQ W ATON HD12
 IQ White ATON HD24 IQ W ATON HD24
 RGB HD20 RGB HD20
 ATON Color Red ATON Color R
 ATON Color Yellow ATON Color Y
 ECO HD8 Blue ECO HD8 B
 ECO HD8 Green ECO HD8 G
- Length**
 L_{min}: 7.8" (198 mm); ATON Color: 5.31" (135 mm);
 L_{max}: 13.16' (4,010 mm);
 in 2.46" (62.5 mm) increments; ATON Color: 4.92" (125 mm)
- Profile color**
 Silver S
 Black B
- Options**
 Non adjustable NA
 Adjustable A
- Cable feed⁵**
 Back side, 6.56' / 2 m
 (through mounting channel) BS
 Front side, 6.56' / 2 m
 (through end caps) FS
- Ingress protection**
 IP67



opal encapsulation
DIN 5040:A50



⁵ Cable feed

Please choose your accessories

Fixture comes with 6.56' / 2 m open end cable.

Mounting
<input checked="" type="checkbox"/> no further accessories required, fixture base profile = mounting channel

Length of profiles (ft / mm)	Number of mounting accessories
0.25 - 4 / 0 - 1,000	2
4 - 7 / 1,001 - 2,000	3
7 - 10 / 2,001 - 3,000	4
10 - 13 / 3,001 - 4,000	5

! Note: Number of mounting accessories depending on the profile length.

Mounting (optional)	Art. - #
<input type="checkbox"/> XOOLUM™ 007 Swivel-Angle Set +/- 45°	13000081
<input type="checkbox"/> VarioPendant 007 Slide Silver	13000157
<input type="checkbox"/> VarioPendant 007 Slide black	13000158

Recommended driver
<input type="checkbox"/> MEAN WELL HLG-100H-24A

Recommended control
<input type="checkbox"/> EldoLED LINEARdrive DC 180D

For max. cable length between driver and fixture please visit www.led-linear.com/cable-length

Safety and assembly information please see specification catalogue 2018/2019.

LED Linear™ GmbH

ARUP
 Project Number: 271565
 Phone: 1 212 896 3000

XOOLUM IP67



Member of the
Fagerhult Group

Type: AL02(POND)

Page 5 of 5

Drivers

Item	Specifications	Downloads
LED LINEAR™ Non-Dimmable Drivers 	<ul style="list-style-type: none"> • UL 8750 Listed Enclosure - With Built-In Junction Boxes • Universal Input Voltage 120V - 277V • IP65 - For Both Indoor and Outdoor Use • No Minimum Load Requirement • 24V Constant Voltage Output, Class 2 • Available in three wattages 30W, 60W and 96W • Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8" 	30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
LED LINEAR™ 0-10V Dimmable Drivers 	<ul style="list-style-type: none"> • UL 8750 Listed Enclosure - With Built-In Junction Boxes • 0-10V Dimmable - Flicker Free Down to 1% • Universal Input Voltage 120V - 277V • IP65 - For Both Indoor and Outdoor Use • 24V Constant Voltage Output, Class 2, Class P • Available in three wattages 30W, 60W and 96W • Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8" 	30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
LED LINEAR™ ELV/Triac Dimmable Drivers 	<ul style="list-style-type: none"> • UL 8750 Listed Class 2 Enclosure • 24V constant voltage output • Compact size yet high efficiency and performance in dry and damp environments (IP67) • Multiple Inputs: 120V or 277V • Fully dimmable: ELV Dimmers - Reverse or Adaptive Phase Control, Trailing Edge • Available in two wattages 48W and 96W • Multiple Circuits are available up to 4 units (up to 384W) 	48 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
 PWM Dimmable Drivers 	<ul style="list-style-type: none"> • Universal AC input / Full range (up to 305VAC) • Constant voltage PWM style output • Built-in 3 in 1 dimming function (0-10Vdc or PWM signal or resistance) • Dimming range : 0-100% • Class 2 power unit • Suitable for dry / damp / wet locations • UL Recognized component, 5 years warranty 	40 W SPEC SHEET 60 W SPEC SHEET 90 W SPEC SHEET INSTALLATION INSTRUCTIONS
 Dimmable Drivers 	<ul style="list-style-type: none"> • UL Listed Enclosure • Dimming Range: 100% to 1% and 0.1% (Premiere) • LED lighting turns on to any dimmed level without flashing to full brightness • Operating Voltage: 120V~ to 277V~ at 50/60 Hz • Rated lifetime of 50,000 hours at 40°C (104°F) ambient temperature and maximum loading • For rated warranty, ambient temperature not to exceed 40°C (104°F) • Open-circuit protected output 	HI-LUME SPEC SHEET HI-LUME PREMIERE SPEC SHEET INSTALLATION INSTRUCTIONS
eldoLED DALI/DMX Dimmable Drivers 	<ul style="list-style-type: none"> • Available in linear or rectangular format • 100W, DMX/DALI interface • 4 control channels • 24V constant voltage, 4 x 24V outputs • Metal or plastic case options 	100 W SPEC SHEET INSTALLATION INSTRUCTIONS

Controllers

Item	Specifications	Downloads
eldoLED Controllers 	180/D DMX Controller for RGB and Tunable White Applications	180/D SPEC SHEET
	210/D Dali Controller for Static White, RGB and Tunable White Applications	210/D SPEC SHEET
	211/D-LG 0-10V Logarithmic Dimming Controller	211/D-LG SPEC SHEET
	211/D-LN 0-10V Linear Dimming Controller	211/D-LN SPEC SHEET
	212/D DMX Controller for Static White and Static Color Applications	212/D SPEC SHEET
DimWheel DMX Wall Controller for RGB and Tunable White Applications	DIM WHEEL SPEC SHEET	

Click for more information

PRODUCT BROCHURE

INSTALLATION

IES FILES

DRIVERS & CONTROLS

Manufacturer: BASELIGHT + SORAA + Color Cord

Description: Lampshade + Lamp

Fixture Wattage: 11 W

Lumen Output: 725 lumen

Lamp CRI: 90+

Lighting Controls: 0-10V Dimming

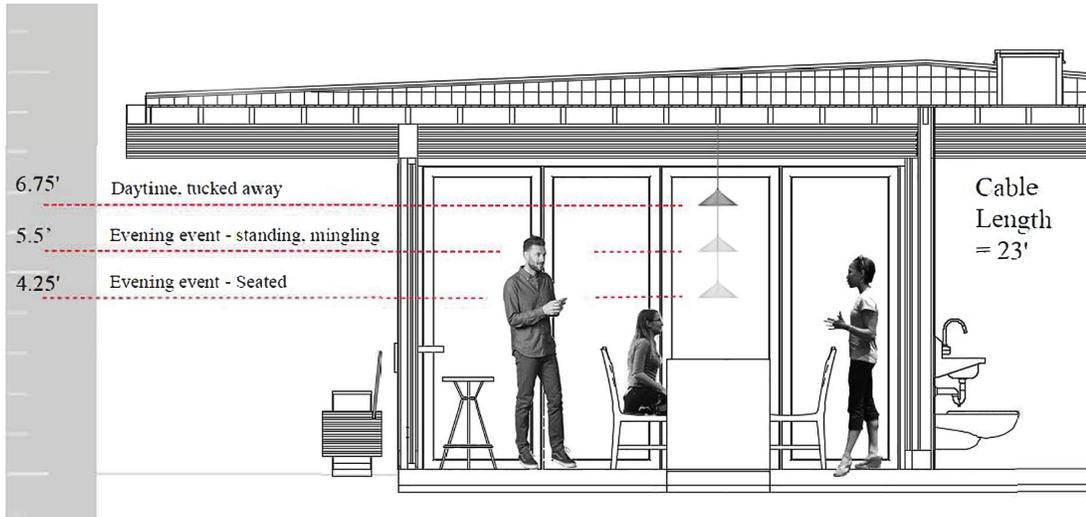
Voltage: 120 V

Fixture Finish: To be specified by architects

Lamp CCT: 3000K

Assembly Code: See Lighting Notes

Section through Pond Pavilion showing various height settings of pendants



Type:

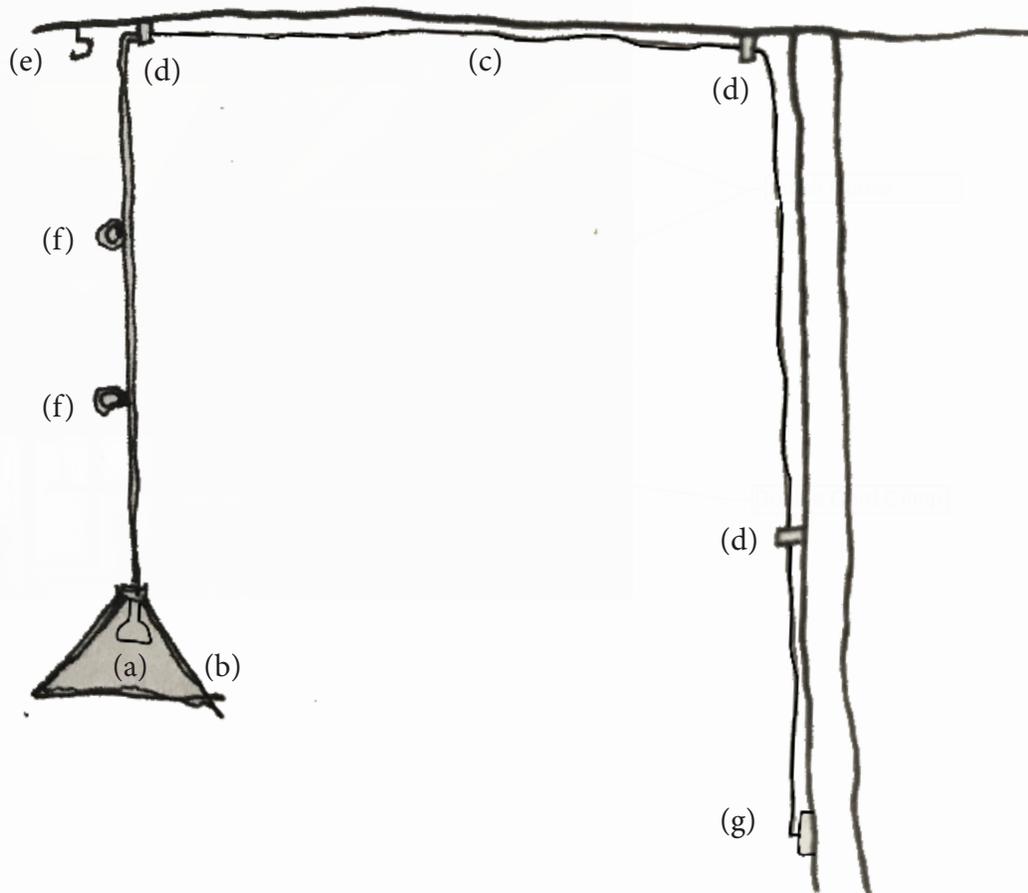
AP01

Page 1 of 19

Lighting Notes:

1. All finishes to be specified by architect.
2. This product consists of: (a) 1x Lamp (b) 1x Lamp Shade (c) 1x 23' Cord (d) 3x Pinch Hooks (e) 1x Round Hooks (f) 2x Double Cord Crimps (g) Mounting
3. Lamp to be SORAA Vivid BR30 SB30-11-120D-930-01-04218
4. Pinch Hook to be Color Cord PHK-100-998.
5. Round Hook to be Color Cord PHK-110-998.
6. Double Cord Crimp to be ElecDirect.com Copper Alloy Split Bolt Connector S/2/0
7. Lamps shade to be BASELIGHT CS12. Add Alternate COS12. Add Alternate WE14.
8. Mounting to be Damp Rated BASELIGHT LWTM.
9. 23' Cord by BASELIGHT, architect to specify finish.

Diagram indicating pendant kit of parts



ARUP

Project Number: 271565
Phone: 1 212 896 3000

COLOR CORD COMPANY

Contact: 1-800-409-1070 or info@colorcord.com

Round Swag Hook / Raw Metal

Price: \$12.00 - Item Number:
PHK-110-998

Overview

The Round Swag Hook from Color Cord Company offers you a tried and true method for altering the shape of your hanging light fixtures and plug-in pendants with a little extra sass and swag. This round hook is an exclusive design created by the Color Cord team that isn't available anywhere else. Since most of our fixtures don't come with a hook for hanging the light included, make sure you add a few to your cart in the perfect color for your space. How to Use Our round hooks are easy to use and install as long as you follow all of our recommendations and directions. If your support structure is mounted directly on a ceiling-joint or other wood piece, the hooks can be screwed directly into the material. For drywall mounting, please use the anchor included in the hook set. All other materials, including plaster, concrete, or brick, need to be installed with the help of a professional. Reach out to your local hardware store for advice on finding the right screw and anchor that your project would require. Selection & Customization Color Cord Company is all about providing you with the tools to customize everything about your lighting fixtures. Our hooks are no different and are available in a variety of finishes including: Polished Copper Solid Raw Brass Brushed Nickel Raw Metal Matte White Matte Black. If you're looking at one of our raw metal finishes, please note that these styles will oxidize and rust. The intention is to allow them to blend seamlessly with any upcycled, industrial-style enhancements to your space. Our raw finishes are also the ideal choice for anyone who wants to paint these round hooks in a specific color. Simply sand the hook and apply the paint of your choice. Shop all our lighting supplies today to mix and match our accessories and design the perfect creation!

Technical Specs

- Exclusive Color Cord Company design
- Overall Height: 2 3/8"
- Overall Width: 1 1/2"
- Internal Width at Widest Point: 1"
- Max Weight Load: 10 Lbs. with Included Anchor
- Mini Set Screw to Secure Hook to Backplate
- Comes with hook, backplate, #6 wood screw & Anchor, Allen Key

Type:

AP01

Page 2 of 19

ARUP

Project Number: 271565
Phone: 1 212 896 3000

COLOR CORD COMPANY

Contact: 1-800-409-1070 or info@colorcord.com

Type:

AP01

Page 3 of 19

Pinch Swag Hook / Raw Metal

Price: \$15.00 - Item Number:
PHK-100-998

Overview

Modern Design Hooks for Hanging Lights One of our most popular products, the Pinch Swag Hook is custom-designed to take your lighting fixture to new heights with a sleek finish that will complement your modern fixture design. The hook is specifically designed for our color cords with a quarter-inch opening and a set screw to secure the cord placement and provide some strain relief. Elevate your swag fixture with this modern take on a classic hook for hanging your new lights.

Ease of Use for Walls & Ceilings The ceiling hooks can be mounted directly on wood or ceiling-joint. For mounting on drywall, please be sure to use the included anchor. If the ceiling is made of plaster, brick, or concrete then we recommend that you consult with your local hardware store for assistance. If you are interested in the raw metal finish, please be aware that this style is intended to oxidize and rust to match industrial and upcycled applications. However, this is also the best finish to paint after sanding.

Hooks for Hanging Lights That Match Your Style Whether you want your hook to act as an accent piece with a pop of color or you want it to blend in with your pendant cord, you can choose an option that suits your design tastes. With bold colors and a variety of metal finishes, you can choose the perfect one for your decor. We have colors that look great with all our cord color options. It's easy to find pendant light accessories that match all your design tastes and work perfectly with your cord color choices. If you're looking for classic hooks for hanging lights, be sure to explore all our swag hooks to get the perfect designs for your lamps.

Technical Specs

- Exclusive Color Cord Company design
- 6 different finishes
- Overall Height: 1-27/32in
- Overall Width: 5/8in
- 17/64in opening
- Max weight load: 10 pounds with included anchor
- Features mini set screw to secure hook to backplate
- Additional mini set screw to lock in pendant cord swag position
- Comes with hook, backplate, #6 wood screw and anchor, allen key

ARUP

Project Number: 271565
Phone: 1 212 896 3000



MECHANICAL CONNECTORS

Copper Alloy Split Bolt Connectors

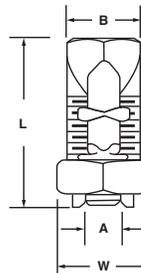
Types S and SEL

- Manufactured from high strength copper alloy - highly resistant to corrosion and season cracking
- For use with a wide range of copper solid, compact, compressed, concentric, copperweld conductors, and rebar
- Approved for electrical power, grounding/bonding, and direct burial applications



Application/Use:

- **Type S** is for use with two conductors in electrical power applications; 2 conductors or conductor to rebar in grounding/bonding and direct burial applications in earth and concrete
- **Type SEL** is for use with two or three conductors in electrical power, grounding/bonding, and direct burial applications in earth and concrete
- DB permanently marked on head for conductor sizes up to 500 kcmil



High Quality Design:

- True hex design allows easy installation with standard tooling
- Under torque, this design provides high contact pressure between conductors or conductor to rebar
- Pressure bar design features give assurance of high "pull-out" and secure connection on all combinations of conductors
- Wide wire range
- Rated for copper conductors, 600 V, 90°C

Installation:

- Use with torque wrench, standard socket, box or open-end wrenches
- Reusable with proper installation practice

Test conductor size installed in connector	Tightening torque, N·m (lb·in)								
	Slotted head No. 10 and larger*				Hexagonal head – external drive socket wrench				
	Slot width – 1.2 mm (0.047 in) or less and slot length – 6.4 mm (1/4 in) or less		Slot width – over 1.2 mm (0.047 in) or slot length – over 6.4 mm (1/4 in)		Split-bolt connectors		Other connectors		
AWG or kcmil	(mm ²)	A	B	A	B	A	B	A	B
30 – 10	(0.05 – 5.3)	1.7 (15)	2.3 (20)	2.8 (25)	4.0 (35)	7.3 (65)	9.0 (80)	6.8 (60)	8.5 (75)
8	(8.4)	2.3 (20)	2.8 (25)	3.4 (30)	4.5 (40)	7.3 (65)	9.0 (80)	6.8 (60)	8.5 (75)
6 – 4	(13.2 – 21.2)	2.8 (25)	4.0 (35)	4.0 (35)	5.1 (45)	15.3 (135)	18.6 (165)	10.2 (90)	12.4 (110)
3	(26.7)	2.8 (25)	4.0 (35)	4.5 (40)	5.6 (50)	25.4 (225)	31.1 (275)	14.1 (125)	16.9 (150)
2	(33.6)	3.4 (30)	4.5 (40)	4.5 (40)	5.6 (50)	25.4 (225)	31.1 (275)	14.1 (125)	16.9 (150)
1	(42.4)	–	–	4.5 (40)	5.6 (50)	25.4 (225)	31.1 (275)	14.1 (125)	16.9 (150)
1/0 – 2/0	(53.5 – 67.4)	–	–	4.5 (40)	5.6 (50)	35.6 (315)	43.5 (385)	16.9 (150)	20.3 (180)
3/0 – 4/0	(85.0 – 107.2)	–	–	4.5 (40)	5.6 (50)	45.2 (400)	56.5 (500)	22.6 (200)	28.2 (250)
250 – 350	(127 – 177)	–	–	4.5 (40)	5.6 (50)	62.1 (550)	73.4 (650)	28.2 (250)	36.7 (325)
400	(203)	–	–	4.5 (40)	5.6 (50)	76.3 (675)	93.2 (825)	28.2 (250)	36.7 (325)

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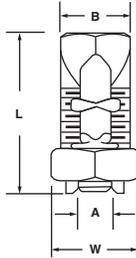
Page 4 of 19



Type:

AP01

Page 5 of 19



Type S - Two Conductors

CATALOG NUMBER	RANGE OF EQUAL RUN & TAP	MIN. TAP W/ ONE MAX. MAIN	MAX. CONDUCTOR COPPERWELD		UL ONLY REBAR W/ 6 OR 8 AWG	APPROXIMATE DIMENSIONS (IN.)				TORQUE (IN-LBS)
			STR.	TYPE A		L	W	B	A	
S-10*	16 Str. - 10 Str.	16 Str.	-	-	-	.72	.50	.34	.13	80
S-8*	16 Str. - 8 Str.	16 Str.	-	-	-	.84	.50	.38	.15	80
S-6*	10 Sol. - 6 Sol.	16 Sol.	-	-	-	1.05	.63	.50	.17	165
S-4*	8 Sol. - 4 Sol.	16 Sol.	3 No. 12	8A	-	1.05	.69	.56	.22	165
S-3*	6 Sol. - 2 Sol.	12 Sol.	3 No. 9	5A	-	1.32	.81	.69	.33	275
S-2*	6 Sol. - 2 Str.	14 Str.	3 No. 7	3A	-	1.32	.81	.69	.33	275
S-1/0*	4 Sol. - 1/0 Str.	14 Sol.	3 No. 6	2A	-	1.64	.88	.75	.38	385
S-2/0	2 Sol. - 2/0 Str.	14 Str.	3 No. 5	-	#3 (3/8)	1.82	1.00	.81	.42	385
S-3/0	2 Sol. - 3/0 Str.	12 Sol.	7 No. 7	-	-	2.00	1.13	.88	.47	500
S-4/0-250	1/0 Sol. - 250 kcmil	10 Sol.	7 No. 5	-	#4 (1/2)	2.08	1.31	1.00	.58	650
S-350+	4/0 Str. - 350 kcmil	8 Sol.	19 No. 7	-	#5 (5/8)	2.63	1.63	1.50	.75	650
S-500+	250 - 500 kcmil	8 Sol.	19 No. 6	-	#6 (3/4)	3.00	1.81	1.63	.83	825
S-750++	350 - 750 kcmil	8 Sol.	19 No. 5	-	-	3.75	2.13	1.94	1.03	1000
S-1000++	500 - 1000 kcmil	8 Sol.	-	-	-	4.00	2.50	2.25	1.22	1100

+UL Only Grounding, Bonding, Direct Burial (350 & 500)
 ++Not Approved Grounding, Bonding, Direct Burial
 * RUS REA Accepted

Type SEL - Two or Three Conductors



CATALOG NUMBER	RANGE OF EQUAL RUN & TAP	MIN. TAP W/ ONE MAX. MAIN	MAX. CONDUCTOR COPPERWELD		APPROXIMATE DIMENSIONS (IN.)				TORQUE (IN-LBS)
			STR.	TYPE A	L	W	B	A	
SEL-8*	16 Str. - 8 Str.	16 Str.	-	-	.84	.50	.38	.14	80
SEL-6*	10 Sol. - 6 Sol.	16 Sol.	-	-	1.09	.63	.50	.17	165
SEL-4*	8 Sol. - 4 Sol.	16 Sol.	3 No. 12	8A	1.27	.69	.56	.22	165
SEL-2*	6 Sol. - 2 Str.	14 Str.	3 No. 7	3A	1.55	.81	.69	.33	275

CONNECTOR TYPE	POWER	UL-467 GROUNDING			CSA C22.2 NO. 41 GROUNDING		
	UL 486A-B CSA 22.2 NO. 65 WIRE RANGE	UL GROUNDING MAX. WIRE	GROUNDING & BONDING	DIRECT BURIAL REBAR	CSA GROUNDING MAX. WIRE	GROUNDING & BONDING	DIRECT BURIAL
S SEL	16 Str. - 1000 kcmil	500 kcmil	Yes	Yes	250 kcmil	Yes	Yes

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ARUP

Project Number: 271565
Phone: 1 212 896 3000

SORAA vivid™



OUR LIGHT IS PERFECT BECAUSE WE INVENTED IT TO BE
We design the smallest sources and pair them with our unique full spectrum technology, for perfect color and light distribution in a range of lamp form factors.

SORAA VIVID COLOR™

Soraa lamps provide beautiful and accurate color rendering across the entire visible spectrum, with CRI/95, R9/95, Rf/90, Rg/100

SORAA NATURAL WHITE™

Soraa lamps clearly differentiate infinite shades of white; whiteness rendering matches or exceeds halogen and incandescent sources at 2700K and 3000K.

FLICKER

Soraa lamps demonstrate low levels of flicker, achieving <30% flicker in both dimmed and undimmed states.

THERMALLY COMPATIBLE

Suitable for use in fully enclosed fixtures, subject to the maximum heatsink temperature limits stated in this data sheet. A list of qualified enclosed fixtures can be found at www.soraa.com/resources. Soraa lamps are designed to safely turn down in any thermal environment not conducive to minimum airflow or proper ventilation.

ELECTRICALLY COMPATIBLE

Works with trailing edge and leading edge phase cut dimmers. A list of compatible dimmers and transformers can be found at www.soraa.com/resources/compatibility.

LOCATION RATING

Suitable for damp locations
Not rated for use in wet locations, should not be exposed to liquid water (including condensation).

BR30 11.5W

HIGH COLOR QUALITY, ENCLOSED FIXTURE COMPATIBLE LED LAMP FOR USE IN BR30 COMPATIBLE DOWNLIGHTS AND OTHER INDOOR AND OUTDOOR APPLICATIONS

OUTPUT RANGE 725 – 750 lumen

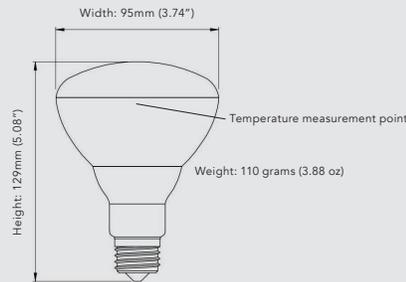
BEAM ANGLE 120°

COLOR METRICS CCTs: 2700K, 3000K
Color Rendering
CIE Metrics: CRI 95, R9 95
TM30 Metrics: Rf 90, Rfh1 90
Whiteness Index: Rw 100

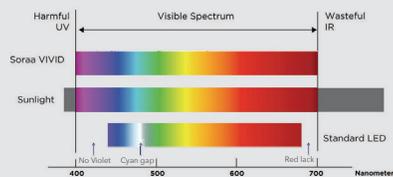
APPLICATION Halogen replacement for indoor and outdoor applications



FORM FACTOR



COLOR RENDERING



LIFETIME AND WARRANTY

Rated lifetime to L70: 25,000 hours
Warranty: 3 years or 25,000 hours whichever comes first
Detailed warranty information available at: soraa.com/resources/legal

SORAA
SIMPLY PERFECT LIGHT

Type:

AP01

Page 6 of 19

ARUP

Project Number: 271565
Phone: 1 212 896 3000

SORAA vivid™

BR30 11.5W

Type:

AP01

Page 7 of 19

OPERATING TEMPERATURE

Minimum: -40° C (ambient)
Typical: 65° C - 80° C (lamp base)
Maximum: 90° C (lamp base)

ELECTRICAL SPECIFICATIONS

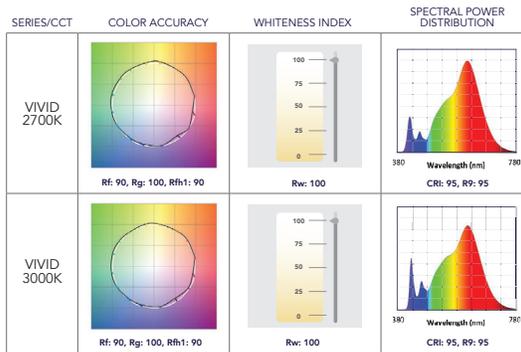
Wattage: 11.5W
Voltage: 120V +/- 12V
Frequency: 50/60 Hz
Power Factor: 0.95

DIMMING AND FLICKER

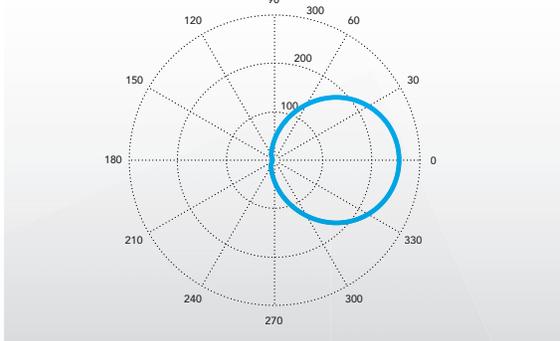
T24/JA8 compliant.
Please reference our compatibility chart for dimmer and transformer information.

CERTIFICATIONS

UL/CUL
FCC Title 47 Part 15B
RoHS



POLAR DIAGRAM



Model Number	Product Code	CCT (K)	Total Flux (Lm)	Beam Angle (°)	Halogen Equiv (W)**	Efficacy (Lm/W)	CRI/R9	Rf	White Point (McA)
VIVID SERIES									
SB30-11-120D-927-01	04216	2700	725	120	65	62	95 / 95	90	3
SB30-11-120D-930-01	04218	3000	750	120	65	65	95 / 95	90	3

*Specifications are at stable warm operating conditions (25°C ambient) **Energy Star Minimum
CCT = Correlated Color Temperature CRI = Color Rendering Index (Ra-8) White Point = White Point Accuracy in McA step



Information and specifications subject to change. BR30 11.5W Rev 2 4.2.19
Soraa Inc. 6500 Kaiser Drive, Suite 110, Fremont, CA 94555 www.soraa.com

SORAA
SIMPLY PERFECT LIGHT

ARUP

Project Number: 271565
Phone: 1 212 896 3000



BASELITE RLM CATALOG

PROJECT NAME: _____
PROJECT TYPE: _____

Type:

AP01

Page 8 of 19

NOTES:

*SKIP SECTION IF OPTION DOES NOT APPLY

MODEL #	A	B	C	D	E	F	G	H	I	J	K
EXAMPLE:	W512	41	E16	SQ ½"	43	45W	3K	PR3	GR16	44	LDM120

A - SHADES

SATURN
FL3
FL4

ATOMIC
AT16 J14
AT18 J14
AT20

ORBITOR
ORB14 ORF19
ORB19 ORW12
ORF14

HAVEN
HVF18 HV20
HV15 HV108
HV16 3HV108

URBAN
UR10 URW16
UR14 URW18
UR16 URW20

MONTEREY
PH16
PHC16
SH16

SUNDANCE
SP402 WE18
SP403 BH16
WE14

SEDONA
CS12 CSP14
CS14 CS16
CSP12

COSMO
CO6 COS12
CO7 CO15
CO8 COS16
CO10

CRAFTSMAN
CR13
CR20

ASTRO
AS116
AS120
AS24
AST24

B - FINISH OPTIONS

16-DISTRESSED TURQUOISE
17-DISTRESSED CHALK
18-MINT GREEN
19-ANTIQUE ALUMINUM*
19P-ANTIQUE ALUMINUM
20-RAW BRASS
20P-BRASS
20PB-POLISHED BRASS
20SB-SATIN BRASS
21-OIL RUBBED BRONZE*
21P-OIL RUBBED BRONZE
22-OLD PEWTER*
22P-OLD PEWTER PC
23-OLD COPPER PATINA*
23P-OLD COPPER PATINA
38-COPPER TINT
39-RAW COPPER
40-COPPER CLEAR COAT
41-GLOSS BLACK
41.5-MATTE BLACK
42-DARK GREEN
43-RED
44-WHITE
45-MEDIUM BLUE
46-YELLOW
48-POLISHED ALUMINUM
49-GALVANIZED
50-NAVY BLUE
51-ARCHITECTURAL BRONZE
52-PATINA
53-RUST
54-STUCCO
55-SAGE
57-POLISHED ALUMINUM CC
58-SATIN ALUMINUM
59-COPPER TONE
60-CANAL GREEN
61-ANODIZED CHARCOAL
62-ANODIZED BRONZE
63-IRON RUST
64-WROUGHT IRON
65-TERRACOTTA
66-BARK
70-TRANSPARENT RED
71-TRANSPARENT GREEN
72-TRANSPARENT WINE
73-TRANSPARENT NAVY
74-GUN METAL
75-DISTRESSED RED
76-DISTRESSED BLUE

B - FINISH OPTIONS (CONT.)

77-DISTRESSED GREEN
78-CHALKBOARD BLACK
79-GHOST ORANGE
80-PALE GOLD
81-METALLIC BRONZE
82-BLACK GOLD
83-SHOCKER GREEN
84-FADDED BLUE
85-COBBLESTONE
86-BRONZE COPPER
87-CHAMPAGNE
88-FLAMED STEEL
89-TAUPE
90-LIME GREEN
91-PACIFIC PINE
92-ANTIQUE GALVANIZED
93-FADDED COPPER
94-ANODIZED ALUMINUM
95-TURQUOISE
96-PURPLE
97-BATTLESHIP GREY
98-BLACKENED PIPE
99-STEEL
100-OLD STEEL
PN-POLISHED NICKEL
-(MG) MARINE GRADE FINISH-
AVAILABLE UPON REQUEST.

C - MOUNTING

½" ARM EXTENSIONS
E1 E4
E2 B1
E3

¾" ARM EXTENSIONS
E3A E10 E17
E4A E11 E17S
E5 E12 E18
E6 E13 E19
E7 E15 E20
E8 E15S E22
E9 E16

E14 - CREATE YOUR OWN
(BASELITE WILL TAKE YOUR SKETCH AND FABRICATE A CUSTOM ARM EXTENSION TO MEET YOUR NEEDS).

*ALL ARMS SOLD WITH CAST BACKPLATE (CB)

C - MOUNTING (CONT.)

WALL MOUNT
B10 WM13X WM31
B11 WM14 WM35
B12 WM14X WM35X
B13 WM15 WM55
B101 WM18 WM55X
WM10 WM25 WM60
WM11 WM26 WM61
WM12 WM27 WM70
WM13 WM28 WM71
WM13R WM30

POST MOUNT
PM10 PM55
PM15 PM56
PM18 PM60
PM20 PM61
PM21 PM62
PM25 PM63
PM30 PM70
PM35 PM71
PM40 PM72
PM45 PM73
PM50

CORD MOUNT
BLC TLB RCHB
WHC TLW RCHW
TCB TLB FHB
TCW TLW HBLC
TCHB RCB HWHC
TCHW RCW CBLC
CWHC

STEM MOUNT
ST6 ST48
ST12 DP24
ST18 SC24
ST24 STXX
ST36

D - MOUNTING ADD-ONS

TRB ½" SLC ½" LGSWL
TRB ¾" SLC ¾"
SQ ½" STC
SW ¾" FH ½"
CB ½" FH ¾"
CB ¾" SWL

E - MOUNTING COLOR

SEE SECTION "B" FOR COLOR OPTIONS.



BASELITE RLM CATALOG

PROJECT NAME: _____
PROJECT TYPE: _____

Type:

AP01

Page 9 of 19

F – LIGHT SOURCE

- INCANDESCENT (INC)
- 100W
- 150W
- 200W
- 300W
- COMPACT FLOURESCENT (CF)
- 26W
- 32W
- 42W
- 57W
- HIGH INTENSITY DISCHARGE (HID)
- 35W 100W
- 50W 150W
- 70W 175W
- LIGHT EMITTED DIODE (LED)
- 12W 45W
- 25W 75W
- 35W 100W

G – LED COLOR TEMP

(ONLY APPLICABLE FOR LED LIGHT SOURCE. SKIP THIS SECTION IF OPTION DOES NOT APPLY.)
27K – 2700 K*
3K – 3000 K
35K – 3500 K
4K – 4000 K
5K – 5000 K*

H – GLASS OPTION

CL3	GR3*	PR3
CL4	GR4*	PR4
CLT3	AH3*	BA
CLT4	AH4*	BAX
BL3*	FR3	BAF
BL4*	FR4	PR8
RE3*	FRT3	PR8F
RE4*	FRT4	FN

I - ACCESSORIES

GR7	CGR	FGR7
GR8	LGR10	FGR8
GR10	LGR12	FGR10
GR12	LGR14	FGR12
GR14	CRL12	FGR14
GR16	CRL14	FGR16
GR18	CRL16	FGR18
GR20	CRL18	FGR20
GR24	FLE12	FGR24
GR27	FLE14	FGR27
REF	FLE16	GU-1
UGR	FLE18	GU-2

J – ACCESSORY COLOR

SEE SECTION "B" FOR COLOR OPTIONS.

K – ELECTRICAL

- CDM7-120/277
- CDM10-120
- CDM10-277
- LDM120
- LDM277
- LDM0-10
- PHCL120
- PHCL277
- FS – FUSING
- EM – EMERGENCY BALLAST
- BRC – BALLAST RETAINER CHAIN

NOTES

- *ALL ARMS COME WITH A CAST BACKPLATE (CB1/2", CB3/4", LWTM, CFWTM, ECT.)
- *ACCORDING TO THE LIGHT SOURCE THE BACKPLATE MAY VARY IN SIZE. (EXAMPLE: LED LIGHT SOURCE WILL HAVE A DEEPER BACKPLATE TO HOUSE THE DRIVER.)
- *FINISH OPTIONS 20, 21, 22, 23 ARE FOR SOLID BRASS FIXTURES ONLY
- *FINISH OPTIONS 19, 21, 22, 23 ARE AN ACID FINISH AND IS APPLIED BY HAND. THESE FINISHES WILL VARY IN CONSISTENCY.
- *FINISH OPTIONS 61, 62, 70, 71, 72, 73 ARE FINISHED WITH A SUPERCHROME ON THE INSIDE FOR ALL LED LIGHTSOURCE OPTIONS.
- *GLASS OPTIONS BL3, BL4, RE3, RE4, GR3, GR4, AH3, AH4 ARE NOT AVAILABLE FOR H.I.D. LIGHT SOURCE.
- *27K AND 5K ARE NOT COMPATIBLE WITH 75W & 100W LED OPTION.
- *COLOR CORDS ARE NOT APPLICABLE FOR LED OPTIONS.
- *FIXTURE DIMENSIONS MAY VARY ± 0.25

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Phone: 1 212 896 3000



BASELITE RLM CATALOG

PROJECT NAME: _____
PROJECT TYPE: _____

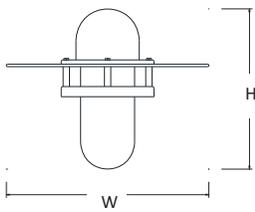
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AP01

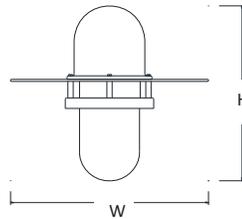
Page 10 of 19

BASELITE'S SHADES ARE CONSTRUCTED FROM A HEAVY GAUGE 1100-0 ALUMINUM AND ARE HAND SPUN IN OUR OWN FACILITY HERE IN THE U.S.A. EACH SHADE IS SPUN ONE AT A TIME TO ENSURE A QUALITY PRODUCT. THE ALUMINUM USED RANGES FROM .050" TO .125" IN THICKNESS DEPENDING ON THE SHADE.

SATURN SHADE SERIES

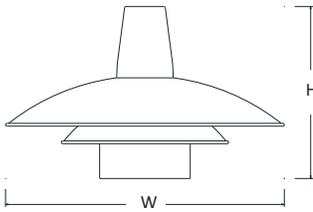


	HEIGHT	WIDTH
FL3	9.5"	12"

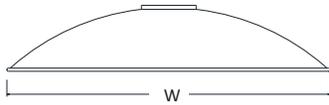


	HEIGHT	WIDTH
FL4	12.5"	14"

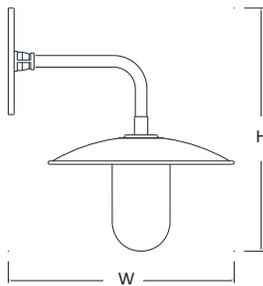
ATOMIC SHADE SERIES



	HEIGHT	WIDTH
AT16	13"	16"
AT18	13"	18"
AT20	13"	20"

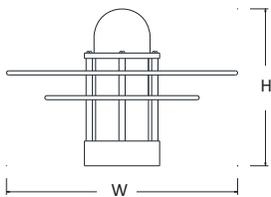


	HEIGHT	WIDTH
JI24	5"	24"

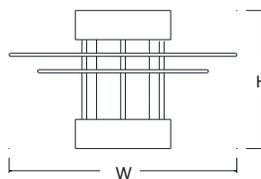


	HEIGHT	WIDTH
JI14	18.25"	17"

ORBITOR SHADE SERIES



	HEIGHT	WIDTH
ORB14	9.5"	14"
ORB19	12"	19"



	HEIGHT	WIDTH
ORF14	9"	14"
ORF19	11.25"	19"

P.3

ARUP

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BASELITE RLM CATALOG

PROJECT NAME: _____
PROJECT TYPE: _____

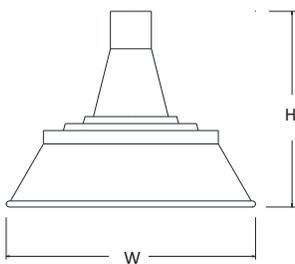
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AP01

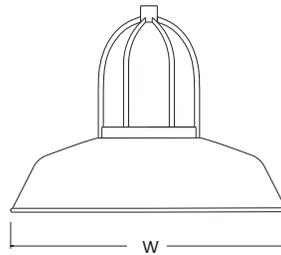
Page 12 of 19

A – SHADES (CONTINUED)

URBAN SHADE SERIES

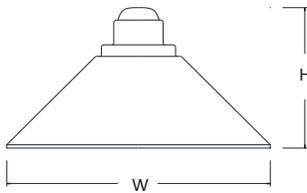


	HEIGHT	WIDTH
UR10	10.75"	10"
UR14	11"	14"
UR16	11"	16"

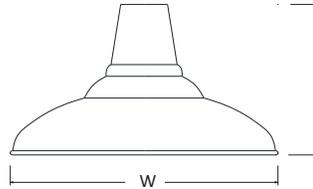


	HEIGHT	WIDTH
URW16	12"	16"
URW18	12"	18"
URW20	15.5"	20"

MONTEREY SHADE SERIES

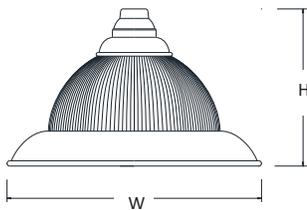


	HEIGHT	WIDTH
PH16	9"	16"
PHC16	9"	16"

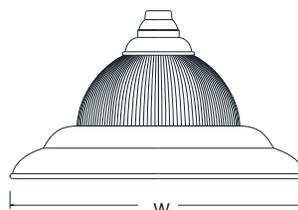


	HEIGHT	WIDTH
SH16	9"	16"

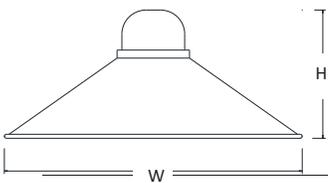
SUNDANCE SHADE SERIES



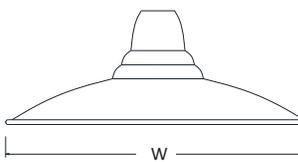
	HEIGHT	WIDTH
SP402	7.5"	12"



	HEIGHT	WIDTH
SP403	8.5"	15"



	HEIGHT	WIDTH
WE14	6"	14"
WE18	8"	18.5"



	HEIGHT	WIDTH
BH16	6"	16"

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Project Number: 271565
Phone: 1 212 896 3000



BASELITE RLM CATALOG

PROJECT NAME: _____
PROJECT TYPE: _____

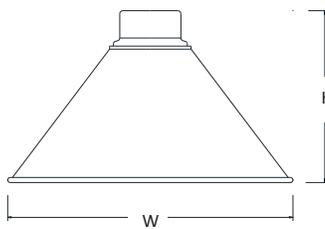
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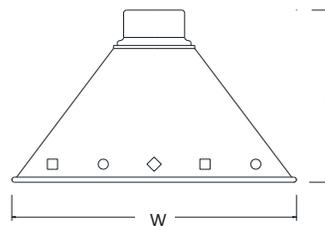
Page 13 of 19

A – SHADES (CONTINUED)

SEDONA SHADE SERIES

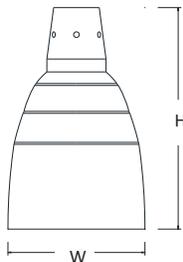


	HEIGHT	WIDTH
CS12	7"	12"
CS14	8.5"	14"
CS16	8.5"	16"

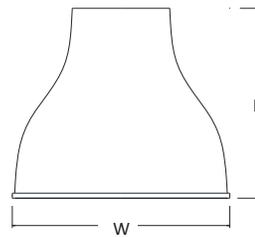


	HEIGHT	WIDTH
CSP12	7"	12"
CSP14	8.5"	14"

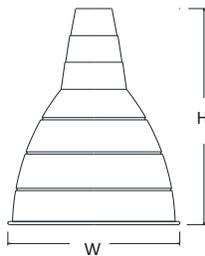
COSMO SHADE SERIES



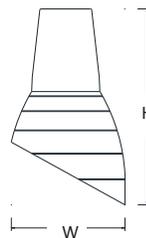
	HEIGHT	WIDTH
C07	10"	7"
C08	13"	8"



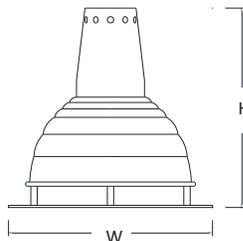
	HEIGHT	WIDTH
COS12	11"	12"
COS16	14"	16"



	HEIGHT	WIDTH
C015	19"	15"



	HEIGHT	WIDTH
C06	11.5"	7"



	HEIGHT	WIDTH
C010	11.75"	12"



BASELITE RLM CATALOG

PROJECT NAME: _____
PROJECT TYPE: _____

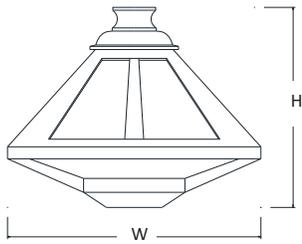
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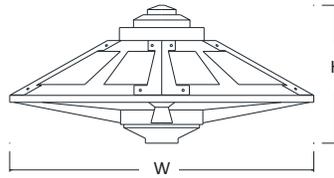
Page 14 of 19

A – SHADES (CONTINUED)

CRAFTSMAN SHADE SERIES

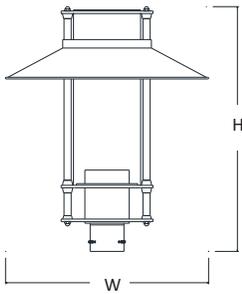


CR13 HEIGHT 12" WIDTH 13"

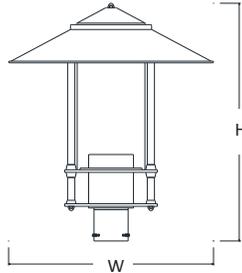


CR20 HEIGHT 12.5" WIDTH 28"

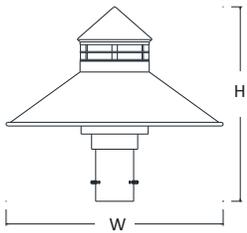
ASTRO SHADE SERIES



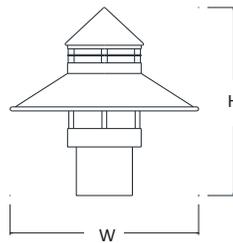
AST24 HEIGHT 29" WIDTH 24"



AS24 HEIGHT 29" WIDTH 24"



AS120 HEIGHT 18" WIDTH 20"



AS116 HEIGHT 16" WIDTH 16"



Project Number: 271565
Phone: 1 212 896 3000



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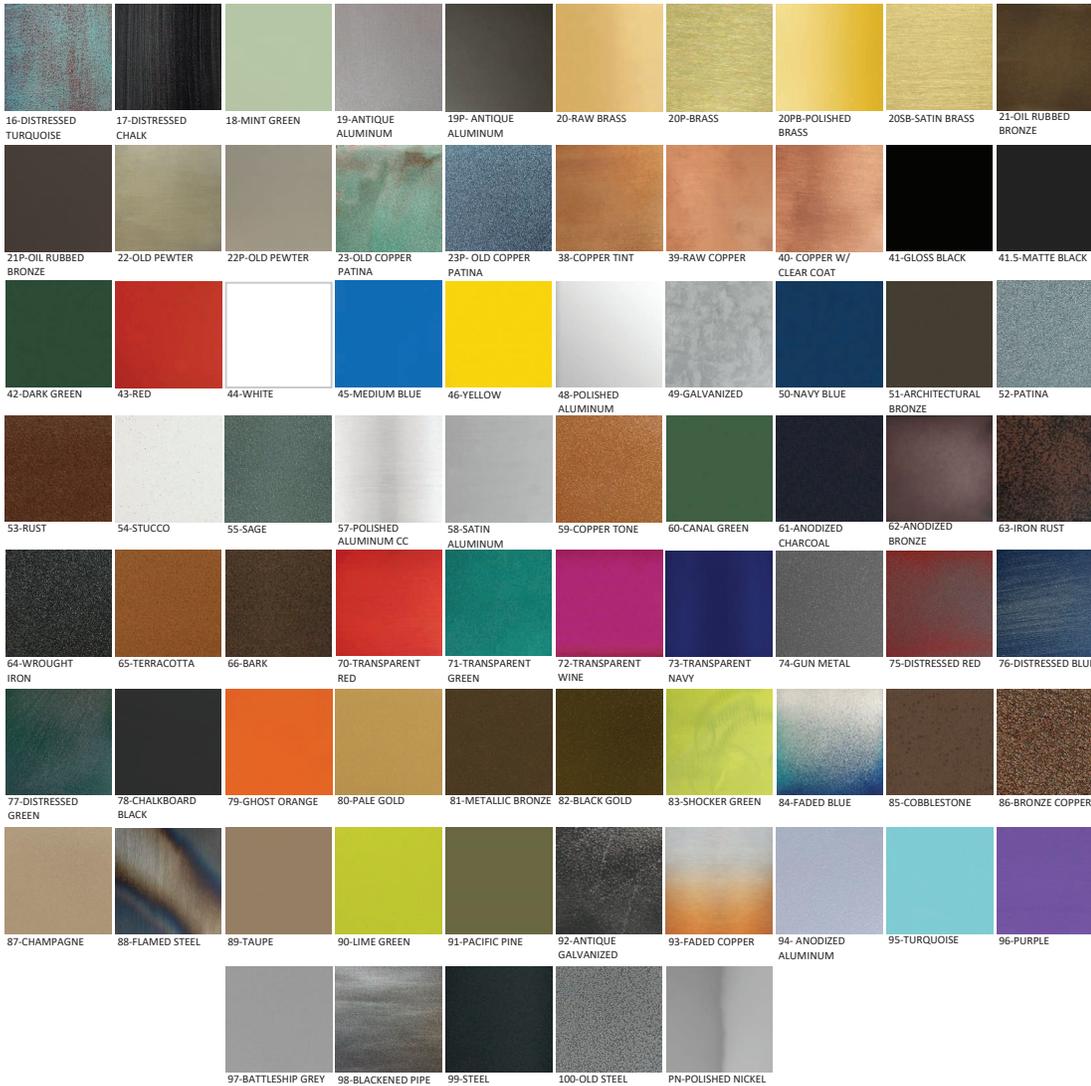
PROJECT NAME: _____
PROJECT TYPE: _____

Type:

AP01

Page 15 of 19

B – FINISH OPTIONS



B – FINISH OPTIONS NOTES

- *FINISH OPTIONS # 19,20, 20P, 20PB, 20SB, 21, 22, 23, 38, 39, 40, 48, 49, 54, 57, 58, 61, 62, 63, 70, 71, 72, 73, 78, 83, 84, 88, 92, 93, 98 ARE THE SAME COLOR INSIDE AND OUT OF THE FIXTURE.
- *ALL OTHER FINISH OPTIONS COME STANDARD WITH WHITE ON THE INSIDE UNLESS SPECIAL REQUEST IS SPECIFIED.
- *FINISH OPTION # 88 ONLY APPLIES TO SPECIFIC FIXTURES, CALL FOR MORE DETAILS.
- *FINISH OPTIONS ON THIS SPEC SHEET ARE REPRESENTATIVE ONLY AND MAY VARY SLIGHTLY FROM THE ACTUAL COLOR.

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Project Number: 271565
Phone: 1 212 896 3000



BASELITE RLM CATALOG

PROJECT NAME: _____
PROJECT TYPE: _____

Type:

AP01

Page 16 of 19

C - MOUNTING OPTIONS (CONTINUED)

COMPACT FLUORECENT/LED

COMPACT FLUORECENT

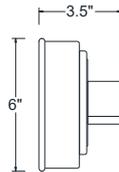
*LIGHT SOURCE 26, 32 or 42W PL-T 4-PIN
*DISTANCE TO LAMP 10'

LED

*LIGHT SOURCE 10W -100W
*DISTANCE TO LAMP 10'

CFWTMPL-T Weathertight CF Wall Mount Ballast

*DESIGNED FOR OUTDOOR USE OR WET LOCATIONS
*ALLOWS STARTING OPERATION DOWN TO 20 C

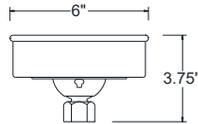


LWTM Weathertight LED Wall Mount

*DESIGNED FOR OUTDOOR USE OR WET LOCATIONS

CFSLCPL-T CF Slope Ceiling Mount Canopy

*DESIGNED FOR OUTDOOR USE OR INDOOR USE IN DAMP LOCATIONS
*FOR USE WITH 1/2" OR 3/4" NPT STEMS

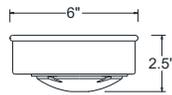


LSLC LED Slope Ceiling Mount Canopy

*DESIGNED FOR INDOOR USE OR DAMP LOCATIONS
*FOR USE WITH 1/2" OR 3/4" NPT STEMS

CFSTCPL-T CF Stem Ceiling Mount Canopy

*DESIGNED FOR OUTDOOR USE OR INDOOR USE IN DAMP LOCATIONS
*FOR USE WITH 1/2" NPT STEMS

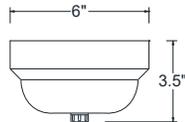


LSTC LED Stem Ceiling Mount Canopy

*DESIGNED FOR INDOOR USE OR DAMP LOCATIONS
*FOR USE WITH 1/2" NPT STEMS

CFBLCPL-T CF Black Cord Ceiling Mount Canopy
CFWHCPL-T CF White Cord Ceiling Mount Canopy

*DESIGNED FOR INDOOR USE
*AVAILABLE IN WHITE OR BLACK CORD
*MAXIMUM DISTANCE FROM MOUNT TO BALLAST IS 10'



LBLC LED Black Cord Ceiling Mount Canopy
LWHC LED White Cord Ceiling Mount Canopy

*DESIGNED FOR INDOOR USE OR DRY LOCATIONS
*AVAILABLE IN WHITE OR BLACK CORD

NOTES

* All compact fluorescent housings are made of aluminum and powdered coated. * Ballasts are made in the U.S.A. and of the highest quality
* Available in 26,32,42 Watt 4-pin PL-T with dual voltage, 120 or 277v
* High Power Factor
* Mounts to recessed 4" octagonal boxes
* PL7 and PL13 ballasts are mounted in shade housing
* 32°F starting temperature for 7W, 13W
* 0°F starting temperature for 26W, 32W, and 42W

NOTES

* All LED housings are made of aluminum and powdered coated
* LED's are made in the U.S.A. and of the highest quality
* Available in 27, 3, 35, 4, 5
* Constant current or constant voltage available
* Mounts to recessed 4" octagonal boxes
* Thermal Adjust
* Size of canopy / backplate will vary due to wattage size of L.E.D.

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Project Number: 271565
Phone: 1 212 896 3000



BASELITE RLM CATALOG

PROJECT NAME: _____
PROJECT TYPE: _____

Type:

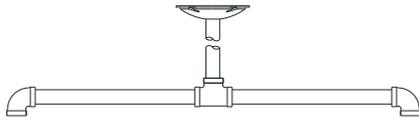
AP01

Page 17 of 19

C - MOUNTING OPTIONS (CONTINUED)

STEM MOUNTS

*DP24 COMES STANDARD WITH STC AND ST18



DP24 DOUBLE PENDANT

* 1/4" NPT AND 3/4" NPT AVAILABLE UPON REQUEST



ST(XX) STEM- 1/2" NPT
XX = LENGTH OF STEM
(EXAMPLE - "ST18" = STEM MOUNT 18" LENGTH)
*CANOPY NOT INCLUDED, ADD IN SECTION D

*SC24 COMES STANDARD WITH STC



SC24 SCROLL STEM

COLOR CORD CODES

*COLOR CORDS NOT APPLICABLE FOR LED.



BKCC BLACK CLOTH CORD



MCC MINT CLOTH CORD



BHCC BLACK WHITE HOUNDSTOOTH CLOTH CORD



WCC WHITE CLOTH CORD



NCC NATURAL CLOTH CORD



YHCC YELLOW BLACK HOUNDSTOOTH CLOTH CORD



RCC RED CLOTH CORD



SCC SILVER CLOTH CORD



BLCC BLACK LINEN CLOTH CORD



BCC BLUE CLOTH CORD



TCC TURQUOISE CLOTH CORD



PCCC PINK CRISS CROSS CLOTH CORD



OCC ORANGE CLOTH CORD



NYCC NEON YELLOW CLOTH CORD



TSCC TURQUOISE BROWN STRIPE CLOTH CORD



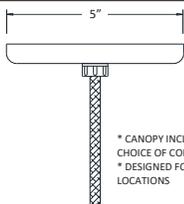
PCC PURPLE CLOTH CORD



BZCC BLACK WHITE ZIG ZAG CLOTH CORD



NTCC NATURAL TWEED CLOTH CORD



* CANOPY INCLUDED WITH ANY CHOICE OF COLOR CORD.
* DESIGNED FOR INDOOR USE OR DRY LOCATIONS





BASELITE RLM CATALOG

PROJECT NAME: _____
PROJECT TYPE: _____

Type:

AP01

Page 18 of 19

C - MOUNTING OPTIONS (CONTINUED)

CORD MOUNTS

*INCANDESCENT MAX WATTAGE 150 WATT. CALL FACTORY FOR HIGHER WATTAGES. LOOPS, CABLES, AND CHAINS AVAILABLE ONLY FOR INCANDESCENT AND COMPACT FLUORESCENT. FOR LED & COMPACT FLUORESCENT OPTIONS, CANOPIES WILL VARY IN SIZE DUE TO SIZE OF THE DRIVER/BALLAST THAT WILL BE LOCATED INSIDE OF THE CANOPY.

	<p>BLC 8' BLACK CORD (INCLUDES CANOPY) INC</p> <p>WHC 8' WHITE CORD (INCLUDES CANOPY) INC</p>		<p>RCB 8' BLACK CORD, CABLE, and LOOP</p> <p>RCW 8' WHITE CORD, CABLE, and LOOP</p>
	<p>TCB 8' BLACK CORD, CABLE, and LOOP</p> <p>TCW 8' WHITE CORD, CABLE, and LOOP</p>		<p>RCHB 8' BLACK CORD, CHAIN, and LOOP</p> <p>RCHW 8' WHITE CORD, CHAIN, and LOOP</p>
	<p>TCHB 8' BLACK CORD, CHAIN, and LOOP</p> <p>TCHW 8' WHITE CORD, CHAIN, and LOOP</p>		<p>FHB 8' BLACK CORD WITH FLAT HUB</p> <p>FHW 8' WHITE CORD WITH FLAT HUB</p>
	<p>TLB 8' BLACK TELEPHONE CORD AND CABLE</p> <p>TLW 8' WHITE TELEPHONE CORD AND CABLE</p> <p><small>* Not available with compact fluorescent or H.I.D.</small></p>		<p>HBLC 8' BLACK CORD (H.I.D.)</p> <p>HWHC 8' WHITE CORD (H.I.D.)</p> <p><small>*(Remote ballast shades only)</small></p>

D - MOUNTING ADD-ONS

* FOR LED & COMPACT FLUORESCENT OPTIONS, CANOPIES WILL VARY IN SIZE DUE TO SIZE OF THE DRIVER/BALLAST THAT WILL BE LOCATED INSIDE OF THE CANOPY.

 <p>CB 1/2" Cast aluminum backplate 1/2 NPT</p>	 <p>SWL 1/2" NPT swivel</p> <p><small>For all arms 7" wide in diameter or smaller</small></p>	 <p>LGSWL 1/2" NPT swivel</p> <p><small>For all arms greater than 7" wide in diameter</small></p>	 <p>STC 1/2" 1/2" Stem mount canopy</p>
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BASELITE RLM CATALOG

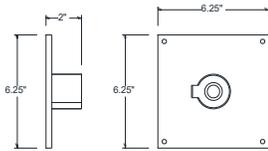
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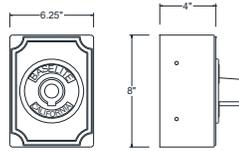
AP01

Page 19 of 19

D - MOUNTING ADD-ONS (CONTINUED)



SQ 1/2" Square backplate
SQ 3/4" Square backplate



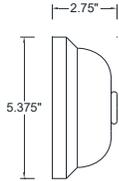
INB Integral Ballast



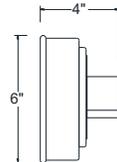
TRB 1/2"-4' Cable Support
TRB 3/4"-4' Cable Support



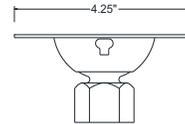
FH 1/2" Flat hub 1/2"
FH 3/4" Flat hub 3/4"



CBC 1/2" 1/2" Backplate cover
CBC 3/4" 3/4" Backplate cover



RINB Round Integral Ballast



SLC 1/2" Slope ceiling canopy 1/2"
SLC 3/4" Slope ceiling canopy 3/4"
(SLOPES TO 20 DEGREES)

* Includes slip ring to hold 1/2" or 3/4" arm extension in place

Manufacturer: BEGA : 22248
Description: Recessed Wall Light

Fixture Wattage: 2 W or W/ft
Lumen Output: 159 lumen/ft
Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: 22248-K3

LED recessed wall - shielded

BEGA

Type:
AW02

Page 1 of 1

Lighting Notes:

1. Finish to be specified by architect.
2. Add alternate: Standard Finish

Application

Designed for low mounting heights for interior and exterior locations, the shielded light distribution is ideal for the glare-free illumination of ground surfaces, building entrances, stairs, and footpaths.

Materials

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

NRTL listed to North American Standards, suitable for wet locations
Protection class IP65
Weight: 2.2 lbs

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-30° C
LED module wattage	3.9 W
System wattage	6.0 W
Controllability	0-10V dimmable
Color rendering index	Ra > 90
Luminaire lumens	159 lumens (3000K)
Lifetime at Ta = 15° C	>500,000 h (L70)
Lifetime at Ta = 45° C	172,000 h (L70)

LED color temperature

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

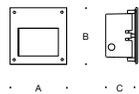
BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

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

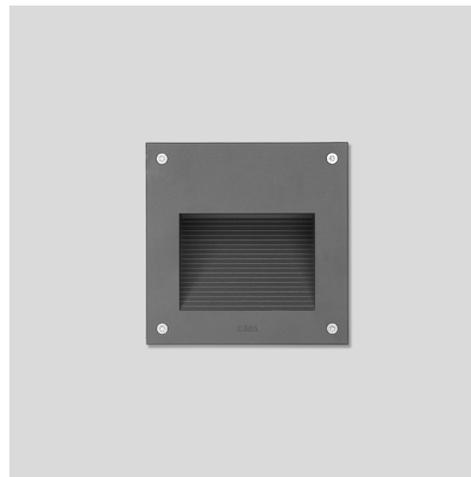
Available colors Black (BLK) White (WHT) RAL:
 Bronze (BRZ) Silver (SLV) CUS:

Type:
BEGA Product:
Project:
Modified:



LED recessed wall · shielded

	LED	A	B	C
22272	ADA 3.9W	5 7/8	5 7/8	4 1/8



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

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com © copyright BEGA 2018 Updated 12/13/19

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: iGuzzini : Palco In Out
Description: Surface Mounted Spotlight (Low Voltage)

Fixture Wattage: 9 W
Lumen Output: 653 lumen
Lamp CRI: 90+

Lighting Controls: 0-10V Dimming

Voltage: 24 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: EH97

Palco InOut

Design Artec3 Studio

iGuzzini

Last information update: October 2020

Product configuration: EH97

EH97: Spotlight with base - Warm White Led - integrated electronic control gear - Very Wide Flood optic

Product code

EH97: Spotlight with base - Warm White Led - integrated electronic control gear - Very Wide Flood optic

Technical description

Spotlight designed to use LED lamps and a Very Wide Flood optic. The optical assembly and base is made of EN1706AC 46100LF aluminium alloy and subjected to a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The following painting stage consists of a primer and a liquid acrylic paint, cured at 150°C, with a high level of weather and UV ray resistance. 5 mm thick tempered sodium-calcium closing glass. Double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Mechanical aiming locks for rotation on both the vertical axis and horizontal plane. Complete with a monochrome LED circuit and an Opti Beam Reflector optic system. The product includes a PG13.5 cable gland. Electronic On/Off ballast integrated in product. Option of using optic accessories assembled via an accessory holder frame. All external screws used are made of A2 stainless steel.

Installation

Floor, wall, ceiling or ground-installed via pole or stake.

Colour

White (01) | Grey (15)

Weight (Kg)

1.9

Mounting

wall surface|ground spike

Wiring

Double PG.

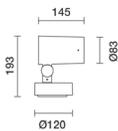
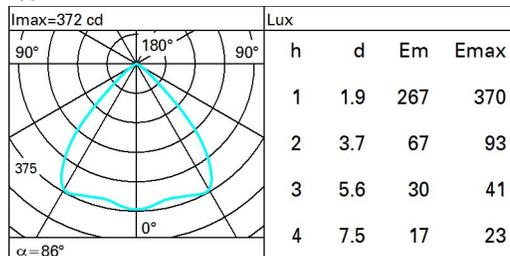
Complies with EN60598-1 and pertinent regulations



Technical data

lm system:	653	Life Time LED 1:	65,000h - L80 - B10 (Ta 25°C)
W system:	10.9	Life Time LED 2:	65,000h - L80 - B10 (Ta 40°C)
lm source:	920	Ballast losses [W]:	1.8
W source:	9.1	Lamp code:	LED
Luminous efficiency (lm/W, 59.9 real value):		Number of lamps for optical 1 assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	71	Ambient operating temperature range:	from -20°C to 50°C.
Beam angle [°]:	86°	Lifetime of product at ambient operating temperature:	≥ 50.000h Ta=40°C
CRI:	80	Power factor:	See installation instructions
Colour temperature [K]:	3000	Overvoltage protection:	2kV Common mode & 1kV Differential mode
MacAdam Step:	2	Control:	On/off

Polar



Type:

AWS02

Page 1 of 2

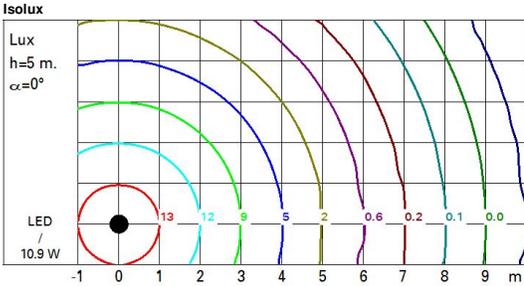
Lighting Notes:

1. Finish to be specified by architect.
2. Add alternate: Standard Finish

ARUP

Project Number: 271565
Phone: 1 212 896 3000

EH97_EN 1 / 2

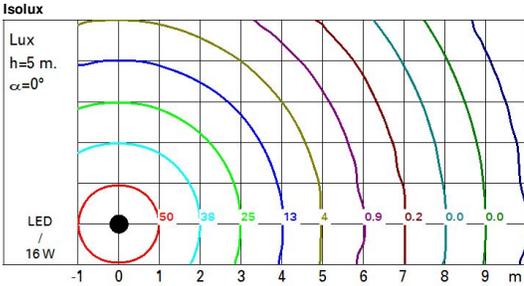


Type:
AWS02
Page 2 of 2

UGR diagram

Corrected UGR values (at 920 lm bare lamp luminous flux)												
Reflect.:		viewed crosswise					viewed endwise					
cell/cav	walls	work pl.	Room dim x	Room dim y								
0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.50	0.30	0.30
0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.30
0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2H	2H	23.9	24.7	24.2	24.9	25.1	23.9	24.7	24.2	24.9	25.1	
	3H	23.8	24.5	24.1	24.7	25.0	23.8	24.5	24.1	24.7	25.0	
	4H	23.7	24.3	24.1	24.6	24.9	23.7	24.4	24.1	24.6	25.0	
	6H	23.6	24.2	24.0	24.5	24.9	23.7	24.2	24.0	24.5	24.9	
	8H	23.6	24.1	24.0	24.5	24.8	23.6	24.2	24.0	24.5	24.8	
	12H	23.6	24.1	23.9	24.4	24.8	23.6	24.1	24.0	24.4	24.8	
4H	2H	23.7	24.4	24.1	24.6	25.0	23.7	24.3	24.1	24.6	24.9	
	3H	23.6	24.1	24.0	24.5	24.8	23.6	24.1	24.0	24.5	24.8	
	4H	23.5	24.0	23.9	24.3	24.7	23.5	24.0	23.9	24.3	24.7	
	6H	23.4	23.8	23.9	24.2	24.7	23.4	23.8	23.9	24.2	24.7	
	8H	23.4	23.8	23.8	24.2	24.6	23.4	23.8	23.8	24.2	24.6	
	12H	23.3	23.7	23.8	24.1	24.6	23.3	23.7	23.8	24.1	24.6	
8H	4H	23.4	23.8	23.8	24.2	24.6	23.4	23.8	23.8	24.2	24.6	
	6H	23.3	23.6	23.8	24.0	24.5	23.3	23.6	23.8	24.0	24.5	
	8H	23.3	23.5	23.7	24.0	24.5	23.3	23.5	23.7	24.0	24.5	
	12H	23.2	23.4	23.7	23.9	24.4	23.2	23.4	23.7	23.9	24.4	
12H	4H	23.3	23.7	23.8	24.1	24.6	23.3	23.7	23.8	24.1	24.6	
	6H	23.3	23.5	23.7	24.0	24.5	23.3	23.5	23.7	24.0	24.5	
	8H	23.2	23.4	23.7	23.9	24.4	23.2	23.4	23.7	23.9	24.4	
Variations with the observer position at spacing:												
S =	1.0H	2.7 / -7.1					2.7 / -7.1					
	1.5H	4.8 / -11.5					4.8 / -11.5					
	2.0H	6.8 / -13.9					6.8 / -13.9					

ARUP
Project Number: 271565
Phone: 1 212 896 3000



Type:
AWS03
Page 2 of 2

UGR diagram

Corrected UGR values (at 2150 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
cell/cav	walls	work pl.	Room dim x	Room dim y							
0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.50	0.30
0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.50	0.30
0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2H	2H	20.1	20.9	20.4	27.1	27.3	20.1	20.9	20.4	27.1	27.3
	3H	20.0	20.0	20.3	20.9	27.2	20.0	20.0	20.3	20.9	27.2
	4H	25.9	20.5	20.2	20.8	27.1	25.9	20.5	20.2	20.8	27.1
	0H	25.8	20.4	20.2	20.7	27.0	25.8	20.4	20.2	20.7	27.0
	0H	25.8	20.3	20.2	20.7	27.0	25.8	20.3	20.2	20.7	27.0
	12H	25.8	20.3	20.1	20.6	27.0	25.8	20.3	20.1	20.6	27.0
4H	2H	25.9	20.5	20.2	20.8	27.1	25.9	20.5	20.2	20.8	27.1
	3H	25.8	20.3	20.1	20.6	27.0	25.8	20.3	20.1	20.6	27.0
	4H	25.7	20.1	20.1	20.5	20.9	25.7	20.1	20.1	20.5	20.9
	0H	25.0	20.0	20.0	20.4	20.8	25.0	20.0	20.0	20.4	20.8
	0H	25.5	25.9	20.0	20.3	20.7	25.5	25.9	20.0	20.3	20.7
	12H	25.5	25.8	25.9	20.2	20.7	25.5	25.8	25.9	20.2	20.7
8H	4H	25.5	25.9	20.0	20.3	20.7	25.5	25.9	20.0	20.3	20.7
	0H	25.4	25.7	25.9	20.2	20.7	25.4	25.7	25.9	20.2	20.7
	0H	25.4	25.0	25.9	20.1	20.6	25.4	25.0	25.9	20.1	20.6
	12H	25.3	25.0	25.8	20.0	20.6	25.3	25.0	25.8	20.0	20.6
12H	4H	25.5	25.8	25.9	20.2	20.7	25.5	25.8	25.9	20.2	20.7
	0H	25.4	25.0	25.9	20.1	20.6	25.4	25.0	25.9	20.1	20.6
	0H	25.3	25.0	25.8	20.0	20.6	25.3	25.0	25.8	20.0	20.6
Variations with the observer position at spacing:											
S =	1.0H	3.2 / -10.0					3.2 / -10.0				
	1.5H	5.5 / -23.3					5.5 / -23.3				
	2.0H	7.5 / -25.3					7.5 / -25.3				

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Type:

Conservation Building

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: LITHONIA LIGHTING : ZL1N

Description: Surface Mounted Linear

Fixture Wattage: 68 W

Lumen Output: 7470 lumen

Lamp CRI: 90+

Lighting Controls: 0-10V Dimming

Voltage: 120 V

Fixture Finish: Anodized Aluminum

Lamp CCT: 4000K

Assembly Code: ZL1N-L96-SMR-10000LM-SBL FST-120-40K-90CRI



FEATURES & SPECIFICATIONS

INTENDED USE — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T5 and T8 lengths. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, cove and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)**

CONSTRUCTION — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install row aligner included for continuous row mounting.

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

OPTICS — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare. L/LENS option available.

ELECTRICAL — L70>60,000hours. Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR... ordering information on page 3.) Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), **multi-volt input and 0-10V dimming standard.** This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

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

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

INSTALLATION — Tool-less channel cover for easy installation.

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

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -40°F (-40°C) and 86°F (30°C).

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

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

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

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

Specifications subject to change without notice.

Catalog Number
Notes
Type



LED Striplight

ZL1N

24", 48" and 96" Lengths



Type:

AL01

Page 1 of 6

Lighting Notes:

1. Mounting to be coordinated with architect

A+ Capable Luminaire

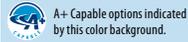
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

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

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

*See ordering tree for details

ZL1N LED Striplight



ORDERING INFORMATION

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

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

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

Color temperature	Color rendering index	Options	Paint finish
30K 3000 K	80CRI 80 CRI	PLR___ Plug-in wiring ^{5,6}	WH White
35K 3500 K	90CRI 90 CRI	PLR1LVG Plug-in wiring-low voltage ^{5,6}	GALV Galvanized
40K 4000 K		E7W Emergency battery pack, 7W CA Title 20 Noncompliant ⁷	MB Matte black
50K 5000 K		2E7W Two Emergency battery packs, 7W CA Title 20 Noncompliant ^{7,8}	SKGY Smoke gray
		E10WLCP Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		2E10WLCP Two Emergency battery packs, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		E15WLCP Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		OUTEND Cord set to exit endplate of fixture	
		Wireless Controls⁵	
		NLTAIR2 RLSXR10 nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°	
		NLTAIR2 RLSXR10EM nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°, UL924 Emergency operation ⁹	
		Individual Controls⁵	
		LBOZU 360° low mount motion sensor, pre-wired ¹⁰	
		LBHOSZU 360° low mount motion sensor with dimming, pre-wired ¹⁰	
		LBPZU 360° low mount motion sensor with photocell, pre-wired ¹⁰	
		LBMOSZU 360° low mount motion sensor, dimming & switching photocell, pre-wired ¹⁰	
		Cord sets:¹¹	
		CS1W Straight plug, 120V	
		CS3W Twist-lock, 120V	
		CS7W Straight plug, 277V	
		CS11W Twist-lock, 277V	
		CS25W Twist-lock, 347V	
		CS97W Twist-lock, 480V	
		CS93W 600V SEOOOW white cord, no plug (no voltage required)	

Accessories: Order as separate catalog number.			
HC36	Hanger chain, 36"	ZLR L24 SYM WH	24" symmetric reflector, white finish
ZACVH	Aircraft cable 10' (one pair)	ZLR L46 SYM UPL WH	46" symmetric reflector with uplight, white finish
ZLANGBKT	Luma-tilt™ angle bracket for shelf or ledge mounting only	ZLR L46 SYM WH	46" symmetric reflector, white finish
SQ_	Stem kit, 2" increments up to 48"	ZLR L48 ASY WH	48" asymmetric reflector, white finish
NPP16D	nLight® switching/dimming module	ZLR L48 SYM UPL WH	48" symmetric reflector with uplight, white finish
rPP20D	nLight® Air switching/dimming module	ZLR L48 SYM WH	48" symmetric reflector, white finish
LSXR	Sensor Switch™ LSXR occupancy sensor ⁴	ZLR L92 SYM UPL WH	92" symmetric reflector with uplight, white finish
ZSPRG	For 15/16" T-grid only	ZLR L92 SYM WH	92" symmetric reflector, white finish
WG224	24" wireguard, white ¹²	ZLR L96 SYM UPL WH	96" symmetric reflector with uplight, white finish
WG248	48" wireguard, white ^{12,13}	ZLR L96 SYM WH	96" symmetric reflector, white finish
ZLR L24 SYM UPL WH	24" symmetric reflector with uplight, white finish	UNIVERSAL REFL ALIGNER	Universal reflector aligners, quantity 1

Notes

- Not available with 347V, 480V or Batteries
- Optional. Reflectors ship separately.
- See Operational Data on page 2 for actual lumens.
- Utilizes step down transformer.
- See ordering information on pages 4 and 5 and [LSXR specification sheet](#) for more configurations. When choosing Sensor and PLR for same fixture, consult the factory.
- Not available with cord sets.
- MVOLT only. Not available with cord sets with plugs. Battery Spec sheet linked for more information.
- Only available with 10,000LM and 14,000LM packages.
- MVOLT only.
- Available with MVOLT, 347V and 480V only. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). See page 6 for low temperature option providing -4°F (-20°C) minimum ambient. Sensors come prewired, they must be snapped into place at time of installation.
- Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W).
- Not compatible with reflector
- Order 2 for tandem double length fixtures (TZL1N).

Type:

AL01

Page 2 of 6

ZL1N LED Striplight

Type:

AL01

Page 3 of 6

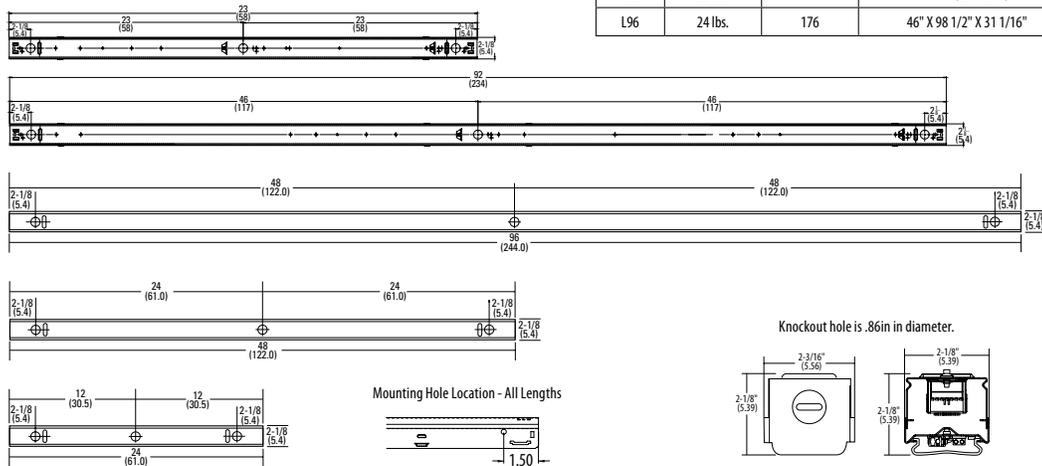
OPERATIONAL DATA												
	Nominal lumen package	Length (inches)	Delivered Lumens 3000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 3500 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 4000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 5000 K CCT @ 77°F (25°C) ambient temperature		Wattage @ 120V/277V	Comparable Light Source
			80 CRI	90 CRI								
Lensed	1500LM	24	1738	1409	1777	1467	1804	1494	1871	1528	15	1-lamp 17W T8
	2500LM	24	2265	1846	2315	1900	2351	1947	2438	1991	19	1-lamp 17W T8
	3500LM	24	3586	2924	3666	3026	3723	3084	3860	3152	31	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	3000LM	46 or 48	3172	2586	3243	2677	3293	2728	3415	2788	25	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	5000LM	46 or 48	4417	3601	4515	3727	4585	3798	4754	3882	34	2-lamp 32W T8, 1-lamp 54W TSHO, 70W HID
	7000LM	46 or 48	6535	5328	6681	5515	6785	5619	7035	5744	52	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	6000LM	92 or 96	6561	5349	6708	5537	6812	5642	7063	5767	48	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	10000LM	92 or 96	8687	7082	8881	7331	9019	7470	9351	7636	68	4-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
Unlensed	14000LM	92 or 96	12457	10513	12735	10665	12933	10711	13409	10949	104	4-lamp 32W T8, 3-lamp 54W TSHO, 150W HID
	1500LM	24	1881	1534	1923	1588	1953	1618	2025	1654	15	1-lamp 17W T8
	2500LM	24	2452	1999	2506	2069	2545	2108	2639	2155	19	1-lamp 17W T8
	3500LM	24	3882	3165	3969	3276	4031	3338	4179	3412	31	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	3000LM	46 or 48	3434	2800	3511	2898	3565	2953	3697	3019	25	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	5000LM	46 or 48	4781	3898	4888	4035	4964	4111	5147	4203	34	2-lamp 32W T8, 1-lamp 54W TSHO, 70W HID
	7000LM	46 or 48	7075	5768	7233	5971	7345	6083	7616	6219	52	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	6000LM	92 or 96	7103	5791	7261	5995	7374	6108	7646	6243	48	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID

DIMENSIONS

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

PALLET DIMENSIONS

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



PHOTOMETRICS

Please see www.lithonia.com

INDUSTRIAL

ZL1N
Page 3 of 6

ARUP

Project Number: 271565
Phone: 1 212 896 3000

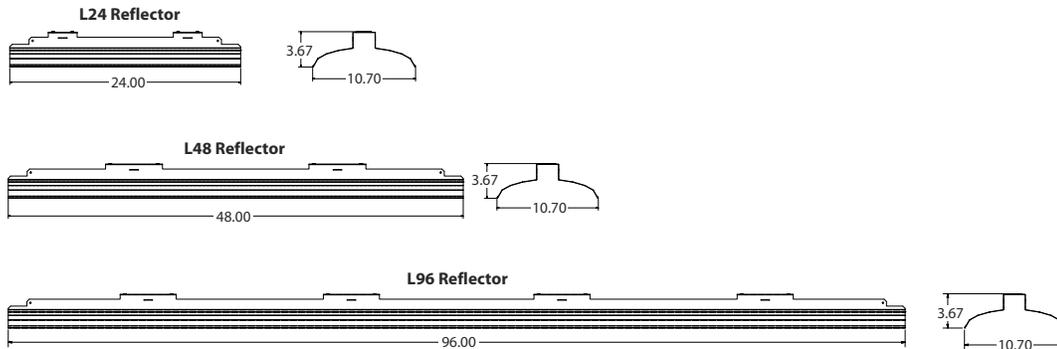
ZL1N LED Striplight

Type:

AL01

Page 4 of 6

REFLECTORS (Optional)



PHOTOMETRICS

Please see www.lithonia.com

PRODUCT INFORMATION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLR22 (2-circuit) and crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Note: Specifications subject to change without notice.

Wiring



PLR

Advanced 1 or 2-Circuit Plug-In

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

Series	Number of hot wires	Branch circuits	Dimming	Ground	
PLR	(blank) Not required for 22	Circuits to which ballast is connected	LV Low-voltage dimming	G Ground, required	
PLR22	1 Black	(blank) Not required for 22 or PLR1			(blank) No emergency circuit
	2 Black and red	A Black wire			ELA Emergency circuit wired to black wire
		B Red wire	ELB Emergency circuit wired to red wire		

Typical Applications

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

ZL1N LED Striplight

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

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

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature
For shortest lead times use one of the following LSXR configurations		
LCOZU	CMRB 50	MSI
LCHOSZU	CMRB 50 D	MSID
LCPZU	CMRB 50 P	MSIPED
LAOZU	CMRB 6	MSI360
LAHOSZU	CMRB 6 D	MSI360D
LAPZU	CMRB 6 P	MSI360PED

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

SINGLE RELAY

Example: LAHOSZU

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

Notes

- 1 Max and min dim levels not applicable with this option.
- 2 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

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

Example: LA2KZU

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

Notes

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

Example: LENS 50 J100

Replacement lenses: Order as separate catalog number.		
Series	Lens type	Package quantity
LENS	6 High mount 360°	(blank) Single Lens
	10 Low mount 360°	J10 10-pack
	50 High mount aisleway	J100 100-pack

Type:

AL01

Page 5 of 6

ZL1N LED Striplight

OPTIONS AND ACCESSORIES

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



HANGER CHAIN
36" chain with Y hanger.

Order as:
HC36



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

Order as:
ZSPRG



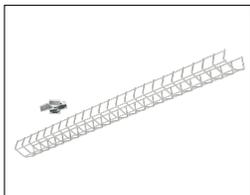
ZACVH HANGER
10' Aircraft cable with Y hanger.

Order as:
ZACVH



ANGLE MOUNTING BRACKET
Luma-tilt™ angle bracket ships as a pair

Order as:
ZLANGBKT



WIRE GUARD

Order as:
WG24
WG48

Type:

AL01

Page 6 of 6

Manufacturer: LITHONIA LIGHTING : ZL1N

Description: Surface Mounted Linear

Fixture Wattage: 34 W

Lumen Output: 3798 lumen

Lamp CRI: 90+

Lighting Controls: 0-10V Dimming

Voltage: 120 V

Fixture Finish: Anodized Aluminum

Lamp CCT: 4000K

Assembly Code: ZL1N-L48-SMR-5000LM-SBL FST-120-40K-90CRI



FEATURES & SPECIFICATIONS

INTENDED USE — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T5 and T8 lengths. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, cove and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)**

CONSTRUCTION — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install row aligner included for continuous row mounting.

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

OPTICS — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare. L/LENS option available.

ELECTRICAL — L70>60,000hours. Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR... ordering information on page 3.) Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), **multi-volt input and 0-10V dimming standard.** This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

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

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

INSTALLATION — Tool-less channel cover for easy installation.

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

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -40°F (-40°C) and 86°F (30°C).

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

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

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

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

Specifications subject to change without notice.

Catalog Number
Notes
Type



LED Striplight

ZL1N

24", 48" and 96" Lengths



Type:

AL01a

Page 1 of 6

Lighting Notes:

1. Mounting to be coordinated with architect

A+ Capable Luminaire

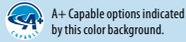
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

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

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

*See ordering tree for details

ZL1N LED Striplight



ORDERING INFORMATION

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

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

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

Color temperature	Color rendering index	Options	Paint finish
30K 3000 K	80CRI 80 CRI	PLR___ Plug-in wiring ^{5,6}	WH White
35K 3500 K	90CRI 90 CRI	PLR1LVG Plug-in wiring-low voltage ^{5,6}	GALV Galvanized
40K 4000 K		E7W Emergency battery pack, 7W CA Title 20 Noncompliant ⁷	MB Matte black
50K 5000 K		2E7W Two Emergency battery packs, 7W CA Title 20 Noncompliant ^{7,8}	SKGY Smoke gray
		E10WLCP Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		2E10WLCP Two Emergency battery packs, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		E15WLCP Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		OUTEND Cord set to exit endplate of fixture	
		Wireless Controls⁵	
		NLTAIR2 RLSXR10 nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°	
		NLTAIR2 RLSXR10EM nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°, UL924 Emergency operation ⁹	
		Individual Controls⁵	
		LBOZU 360° low mount motion sensor, pre-wired ¹⁰	
		LBHOSZU 360° low mount motion sensor with dimming, pre-wired ¹⁰	
		LBPUZU 360° low mount motion sensor with photocell, pre-wired ¹⁰	
		LBMOSZU 360° low mount motion sensor, dimming & switching photocell, pre-wired ¹⁰	
		Cord sets:¹¹	
		CS1W Straight plug, 120V	
		CS3W Twist-lock, 120V	
		CS7W Straight plug, 277V	
		CS11W Twist-lock, 277V	
		CS25W Twist-lock, 347V	
		CS97W Twist-lock, 480V	
		CS93W 600V SEOOOW white cord, no plug (no voltage required)	

Accessories: Order as separate catalog number.			
HC36	Hanger chain, 36"	ZLR L24 SYM WH	24" symmetric reflector, white finish
ZACVH	Aircraft cable 10' (one pair)	ZLR L46 SYM UPL WH	46" symmetric reflector with uplight, white finish
ZLANGBKT	Luma-tilt™ angle bracket for shelf or ledge mounting only	ZLR L46 SYM WH	46" symmetric reflector, white finish
SQ_	Stem kit, 2" increments up to 48"	ZLR L48 ASY WH	48" asymmetric reflector, white finish
NPP16D	nLight® switching/dimming module	ZLR L48 SYM UPL WH	48" symmetric reflector with uplight, white finish
rPP20D	nLight® Air switching/dimming module	ZLR L48 SYM WH	48" symmetric reflector, white finish
LSXR	Sensor Switch™ LSXR occupancy sensor ⁴	ZLR L92 SYM UPL WH	92" symmetric reflector with uplight, white finish
ZSPRG	For 15/16" T-grid only	ZLR L92 SYM WH	92" symmetric reflector, white finish
WG224	24" wireguard, white ¹²	ZLR L96 SYM UPL WH	96" symmetric reflector with uplight, white finish
WG248	48" wireguard, white ^{12,13}	ZLR L96 SYM WH	96" symmetric reflector, white finish
ZLR L24 SYM UPL WH	24" symmetric reflector with uplight, white finish	UNIVERSAL REFL ALIGNER	Universal reflector aligners, quantity 1

Notes

- Not available with 347V, 480V or Batteries
- Optional. Reflectors ship separately.
- See Operational Data on page 2 for actual lumens.
- Utilizes step down transformer.
- See ordering information on pages 4 and 5 and [LSXR specification sheet](#) for more configurations. When choosing Sensor and PLR for same fixture, consult the factory.
- Not available with cord sets.
- MVOLT only. Not available with cord sets with plugs. Battery Spec sheet linked for more information.
- Only available with 10,000LM and 14,000LM packages.
- MVOLT only.
- Available with MVOLT, 347V and 480V only. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). See page 6 for low temperature option providing -4°F (-20°C) minimum ambient. Sensors come prewired, they must be snapped into place at time of installation.
- Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W).
- Not compatible with reflector
- Order 2 for tandem double length fixtures (TZL1N).

Type:

AL01a

Page 2 of 6

ZL1N LED Striplight

Type:

AL01a

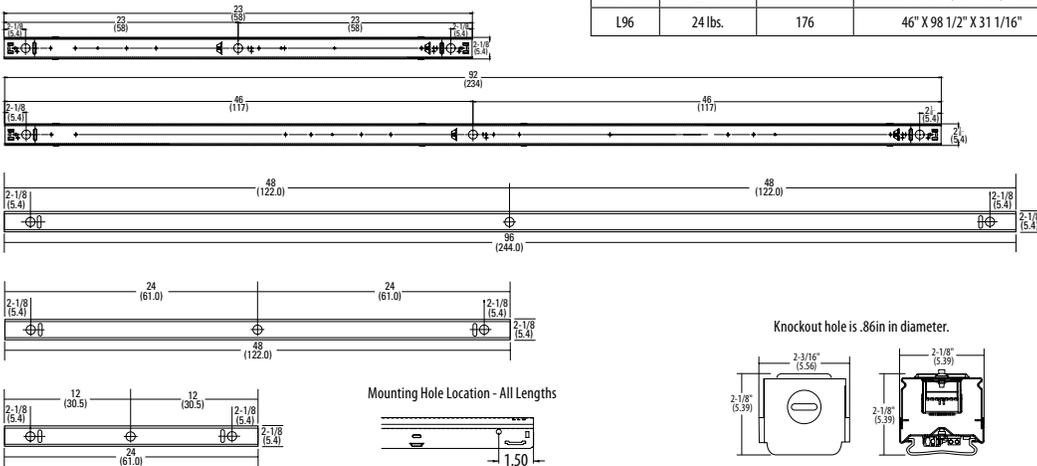
Page 3 of 6

OPERATIONAL DATA												
	Nominal lumen package	Length (inches)	Delivered Lumens 3000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 3500 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 4000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 5000 K CCT @ 77°F (25°C) ambient temperature		Wattage @ 120V/277V	Comparable Light Source
			80 CRI	90 CRI								
Lensed	1500LM	24	1738	1409	1777	1467	1804	1494	1871	1528	15	1-lamp 17W T8
	2500LM	24	2265	1846	2315	1900	2351	1947	2438	1991	19	1-lamp 17W T8
	3500LM	24	3586	2924	3666	3026	3723	3084	3860	3152	31	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	3000LM	46 or 48	3172	2586	3243	2677	3293	2728	3415	2788	25	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	5000LM	46 or 48	4417	3601	4515	3727	4585	3798	4754	3882	34	2-lamp 32W T8, 1-lamp 54W TSHO, 70W HID
	7000LM	46 or 48	6535	5328	6681	5515	6785	5619	7035	5744	52	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	6000LM	92 or 96	6561	5349	6708	5537	6812	5642	7063	5767	48	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	10000LM	92 or 96	8687	7082	8881	7331	9019	7470	9351	7636	68	4-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
Unlensed	14000LM	92 or 96	12457	10513	12735	10665	12933	10711	13409	10949	104	4-lamp 32W T8, 3-lamp 54W TSHO, 150W HID
	1500LM	24	1881	1534	1923	1588	1953	1618	2025	1654	15	1-lamp 17W T8
	2500LM	24	2452	1999	2506	2069	2545	2108	2639	2155	19	1-lamp 17W T8
	3500LM	24	3882	3165	3969	3276	4031	3338	4179	3412	31	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	3000LM	46 or 48	3434	2800	3511	2898	3565	2953	3697	3019	25	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	5000LM	46 or 48	4781	3898	4888	4035	4964	4111	5147	4203	34	2-lamp 32W T8, 1-lamp 54W TSHO, 70W HID
	7000LM	46 or 48	7075	5768	7233	5971	7345	6083	7616	6219	52	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	6000LM	92 or 96	7103	5791	7261	5995	7374	6108	7646	6243	48	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID

DIMENSIONS

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L96	24 lbs.	176	46" X 98 1/2" X 31 1/16"



PHOTOMETRICS

Please see www.lithonia.com

INDUSTRIAL

ZL1N
Page 3 of 6

ARUP

Project Number: 271565
Phone: 1 212 896 3000

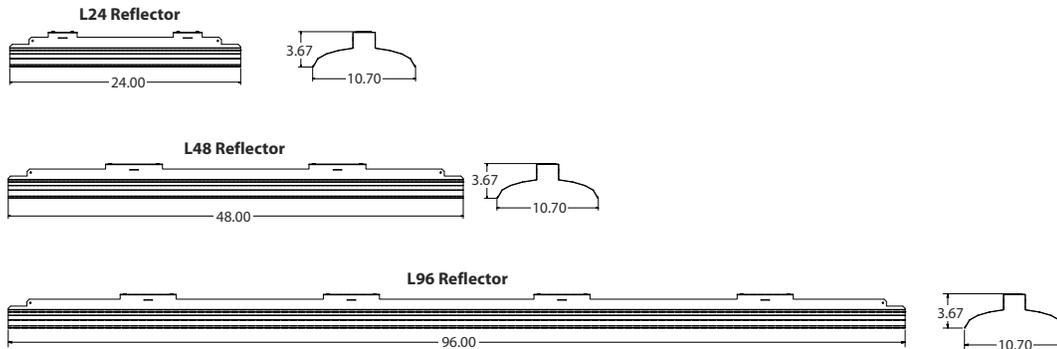
ZL1N LED Striplight

Type:

AL01a

Page 4 of 6

REFLECTORS (Optional)



PHOTOMETRICS

Please see www.lithonia.com

PRODUCT INFORMATION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLR22 (2-circuit) and crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Note: Specifications subject to change without notice.



Wiring

PLR

Advanced 1 or 2-Circuit Plug-In

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

Series	Number of hot wires	Branch circuits	Dimming	Ground	
PLR	(blank) Not required for 22	Circuits to which ballast is connected	LV Low-voltage dimming	G Ground, required	
PLR22	1 Black	(blank) Not required for 22 or PLR1			(blank) No emergency circuit
	2 Black and red	A Black wire			ELA Emergency circuit wired to black wire
		B Red wire	ELB Emergency circuit wired to red wire		

Typical Applications

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

ZL1N LED Striplight

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

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

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature
For shortest lead times use one of the following LSXR configurations		
LCOZU	CMRB 50	MSI
LCHOSZU	CMRB 50 D	MSID
LCPZU	CMRB 50 P	MSIPED
LAOZU	CMRB 6	MSI360
LAHOSZU	CMRB 6 D	MSI360D
LAPZU	CMRB 6 P	MSI360PED

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

SINGLE RELAY

Example: LAHOSZU

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

Notes

- 1 Max and min dim levels not applicable with this option.
- 2 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

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

Example: LA2KZU

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

Notes

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

Example: LENS 50 J100

Replacement lenses: Order as separate catalog number.		
Series	Lens type	Package quantity
LENS	6 High mount 360°	(blank) Single Lens
	10 Low mount 360°	J10 10-pack
	50 High mount aisleway	J100 100-pack

Type:

AL01a

Page 5 of 6

ZL1N LED Striplight**OPTIONS AND ACCESSORIES**

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



HANGER CHAIN
36" chain with Y hanger.

Order as:
HC36



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

Order as:
ZSPRG



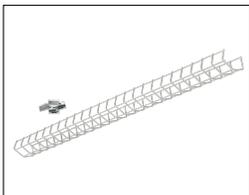
ZACVH HANGER
10' Aircraft cable with Y hanger.

Order as:
ZACVH



ANGLE MOUNTING BRACKET
Luma-tilt™ angle bracket ships as a pair

Order as:
ZLANGBKT



WIRE GUARD

Order as:
WG24
WG48

Type:

AL01a

Page 6 of 6

Manufacturer: LITHONIA LIGHTING : ZL1N
Description: Surface Mounted Linear

Fixture Wattage: 104 W
Lumen Output: 10711 lumen
Lamp CRI: 90+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Anodized Aluminum
Lamp CCT: 4000K
Assembly Code: ZL1N-L96-SMR-14000LM-SBL FST-120-40K-90CRI



FEATURES & SPECIFICATIONS

INTENDED USE — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T5 and T8 lengths. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, cove and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)**

CONSTRUCTION — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install row aligner included for continuous row mounting.

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

OPTICS — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare. L/LENS option available.

ELECTRICAL — L70>60,000hours. Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR... ordering information on page 3.) Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), **multi-volt input and 0-10V dimming standard.** This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

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

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

INSTALLATION — Tool-less channel cover for easy installation.

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

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -40°F (-40°C) and 86°F (30°C).

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

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

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

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

Specifications subject to change without notice.

Catalog Number
Notes
Type



LED Striplight

ZL1N

24", 48" and 96" Lengths



L/Lens

Lensed

A+ Capable Luminaire

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

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

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

*See ordering tree for details

Type:

AL01b

Page 1 of 6

Lighting Notes:

1. Mounting to be coordinated with architect

ZL1N LED Striplight



ORDERING INFORMATION

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

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

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

Color temperature	Color rendering index	Options	Paint finish
30K 3000 K	80CRI 80 CRI	PLR___ Plug-in wiring ^{5,6}	WH White
35K 3500 K	90CRI 90 CRI	PLR1LVG Plug-in wiring-low voltage ^{5,6}	GALV Galvanized
40K 4000 K		E7W Emergency battery pack, 7W CA Title 20 Noncompliant ⁷	MB Matte black
50K 5000 K		2E7W Two Emergency battery packs, 7W CA Title 20 Noncompliant ^{7,8}	SKGY Smoke gray
		E10WLCP Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		2E10WLCP Two Emergency battery packs, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		E15WLCP Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		OUTEND Cord set to exit endplate of fixture	
		Wireless Controls⁵	
		NLTAIR2 RLSXR10 nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°	
		NLTAIR2 RLSXR10EM nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°, UL924 Emergency operation ⁹	
		Individual Controls⁵	
		LBOZU 360° low mount motion sensor, pre-wired ¹⁰	
		LBHOSZU 360° low mount motion sensor with dimming, pre-wired ¹⁰	
		LBPZU 360° low mount motion sensor with photocell, pre-wired ¹⁰	
		LBMOSZU 360° low mount motion sensor, dimming & switching photocell, pre-wired ¹⁰	
		Cord sets:¹¹	
		CS1W Straight plug, 120V	
		CS3W Twist-lock, 120V	
		CS7W Straight plug, 277V	
		CS11W Twist-lock, 277V	
		CS25W Twist-lock, 347V	
		CS97W Twist-lock, 480V	
		CS93W 600V SEOOOW white cord, no plug (no voltage required)	

Accessories: Order as separate catalog number.			
HC36	Hanger chain, 36"	ZLR L24 SYM WH	24" symmetric reflector, white finish
ZACVH	Aircraft cable 10' (one pair)	ZLR L46 SYM UPL WH	46" symmetric reflector with uplight, white finish
ZLANGBKT	Luma-tilt™ angle bracket for shelf or ledge mounting only	ZLR L46 SYM WH	46" symmetric reflector, white finish
SQ_	Stem kit, 2" increments up to 48"	ZLR L48 ASY WH	48" asymmetric reflector, white finish
NPP16D	nLight® switching/dimming module	ZLR L48 SYM UPL WH	48" symmetric reflector with uplight, white finish
rPP20D	nLight® Air switching/dimming module	ZLR L48 SYM WH	48" symmetric reflector, white finish
LSXR	Sensor Switch™ LSXR occupancy sensor ⁴	ZLR L92 SYM UPL WH	92" symmetric reflector with uplight, white finish
ZSPRG	For 15/16" T-grid only	ZLR L92 SYM WH	92" symmetric reflector, white finish
WGZ24	24" wireguard, white ¹²	ZLR L96 SYM UPL WH	96" symmetric reflector with uplight, white finish
WGZ48	48" wireguard, white ^{12,13}	ZLR L96 SYM WH	96" symmetric reflector, white finish
ZLR L24 SYM UPL WH	24" symmetric reflector with uplight, white finish	UNIVERSAL REFL ALIGNER	Universal reflector aligners, quantity 1

Notes

- Not available with 347V, 480V or Batteries
- Optional. Reflectors ship separately.
- See Operational Data on page 2 for actual lumens.
- Utilizes step down transformer.
- See ordering information on pages 4 and 5 and [LSXR specification sheet](#) for more configurations. When choosing Sensor and PLR for same fixture, consult the factory.
- Not available with cord sets.
- MVOLT only. Not available with cord sets with plugs. Battery Spec sheet linked for more information.
- Only available with 10,000LM and 14,000LM packages.
- MVOLT only.
- Available with MVOLT, 347V and 480V only. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). See page 6 for low temperature option providing -4°F (-20°C) minimum ambient. Sensors come prewired, they must be snapped into place at time of installation.
- Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W).
- Not compatible with reflector
- Order 2 for tandem double length fixtures (TZL1N).

Type:

AL01b

Page 2 of 6

ZL1N LED Striplight

Type:

AL01b

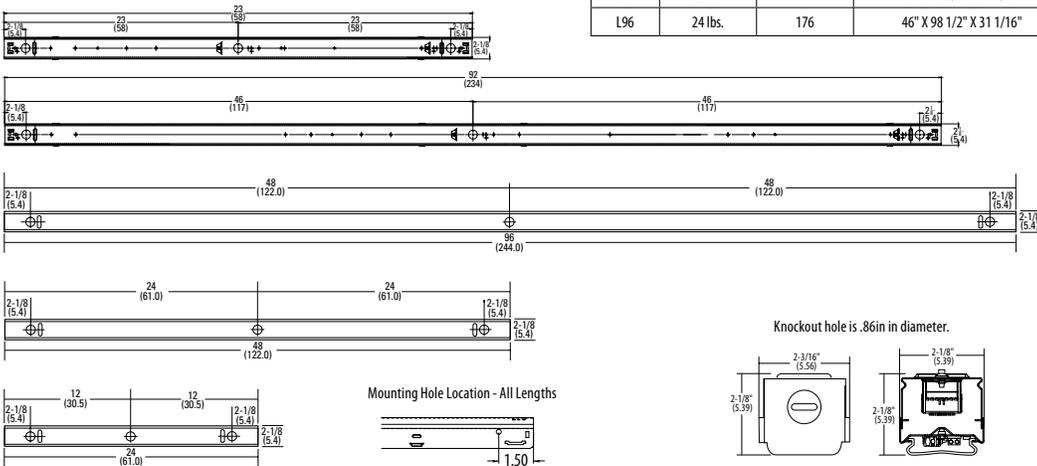
Page 3 of 6

OPERATIONAL DATA												
	Nominal lumen package	Length (inches)	Delivered Lumens 3000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 3500 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 4000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 5000 K CCT @ 77°F (25°C) ambient temperature		Wattage @ 120V/277V	Comparable Light Source
			80 CRI	90 CRI								
Lensed	1500LM	24	1738	1409	1777	1467	1804	1494	1871	1528	15	1-lamp 17W T8
	2500LM	24	2265	1846	2315	1900	2351	1947	2438	1991	19	1-lamp 17W T8
	3500LM	24	3586	2924	3666	3026	3723	3084	3860	3152	31	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	3000LM	46 or 48	3172	2586	3243	2677	3293	2728	3415	2788	25	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	5000LM	46 or 48	4417	3601	4515	3727	4585	3798	4754	3882	34	2-lamp 32W T8, 1-lamp 54W TSHO, 70W HID
	7000LM	46 or 48	6535	5328	6681	5515	6785	5619	7035	5744	52	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	6000LM	92 or 96	6561	5349	6708	5537	6812	5642	7063	5767	48	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	10000LM	92 or 96	8687	7082	8881	7331	9019	7470	9351	7636	68	4-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
Unlensed	14000LM	92 or 96	12457	10513	12735	10665	12933	10711	13409	10949	104	4-lamp 32W T8, 3-lamp 54W TSHO, 150W HID
	1500LM	24	1881	1534	1923	1588	1953	1618	2025	1654	15	1-lamp 17W T8
	2500LM	24	2452	1999	2506	2069	2545	2108	2639	2155	19	1-lamp 17W T8
	3500LM	24	3882	3165	3969	3276	4031	3338	4179	3412	31	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	3000LM	46 or 48	3434	2800	3511	2898	3565	2953	3697	3019	25	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	5000LM	46 or 48	4781	3898	4888	4035	4964	4111	5147	4203	34	2-lamp 32W T8, 1-lamp 54W TSHO, 70W HID
	7000LM	46 or 48	7075	5768	7233	5971	7345	6083	7616	6219	52	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	6000LM	92 or 96	7103	5791	7261	5995	7374	6108	7646	6243	48	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID

DIMENSIONS

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

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



PHOTOMETRICS

Please see www.lithonia.com

INDUSTRIAL

ZL1N
Page 3 of 6

ARUP

Project Number: 271565
Phone: 1 212 896 3000

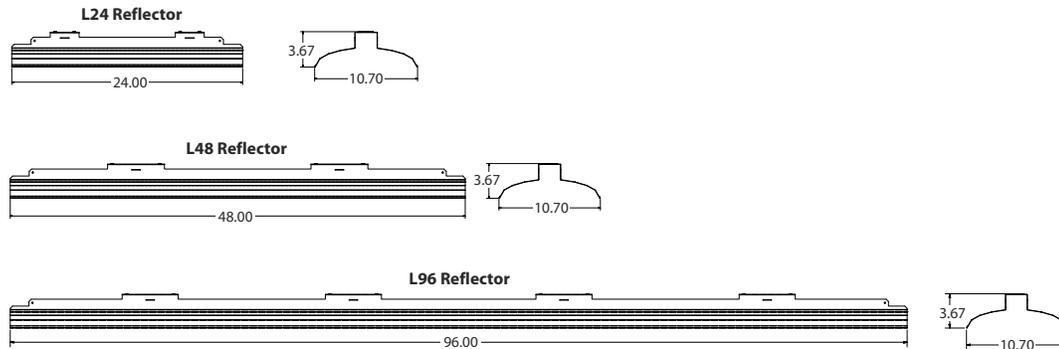
ZL1N LED Striplight

Type:

AL01b

Page 4 of 6

REFLECTORS (Optional)



PHOTOMETRICS

Please see www.lithonia.com

PRODUCT INFORMATION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLR22 (2-circuit) and crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Note: Specifications subject to change without notice.



Wiring

PLR

Advanced 1 or 2-Circuit Plug-In

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

Series	Number of hot wires	Branch circuits	Dimming	Ground	
PLR	(blank) Not required for 22	Circuits to which ballast is connected	LV Low-voltage dimming	G Ground, required	
PLR22	1 Black	(blank) Not required for 22 or PLR1			(blank) No emergency circuit
	2 Black and red	A Black wire			ELA Emergency circuit wired to black wire
		B Red wire	ELB Emergency circuit wired to red wire		

Typical Applications

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

ZL1N LED Striplight

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

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

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature
For shortest lead times use one of the following LSXR configurations		
LCOZU	CMRB 50	MSI
LCHOSZU	CMRB 50 D	MSID
LCPZU	CMRB 50 P	MSIPED
LAOZU	CMRB 6	MSI360
LAHOSZU	CMRB 6 D	MSI360D
LAPZU	CMRB 6 P	MSI360PED

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

SINGLE RELAY

Example: LAHOSZU

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

Notes

- 1 Max and min dim levels not applicable with this option.
- 2 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

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

Example: LA2KZU

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

Notes

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

Example: LENS 50 J100

Replacement lenses: Order as separate catalog number.		
Series	Lens type	Package quantity
LENS	6 High mount 360°	(blank) Single Lens
	10 Low mount 360°	J10 10-pack
	50 High mount aisleway	J100 100-pack

Type:

AL01b

Page 5 of 6

ZL1N LED Striplight**OPTIONS AND ACCESSORIES**

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

**HANGER CHAIN**

36" chain with Y hanger.

Order as:
HC36

**Z SPRING HANGER**

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

Order as:
ZSPRG

**ZACVH HANGER**

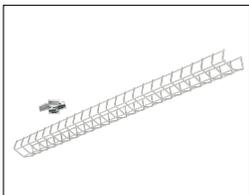
10' Aircraft cable with Y hanger.

Order as:
ZACVH

**ANGLE MOUNTING BRACKET**

Luma-tilt™ angle bracket ships as a pair

Order as:
ZLANGBKT

**WIRE GUARD**

Order as:
WG24
WG48

Type:

AL01b

Page 6 of 6

Manufacturer: LITHONIA LIGHTING : ZL1N
Description: Surface Mounted Linear

Fixture Wattage: 48 W
Lumen Output: 5642 lumen
Lamp CRI: 90+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Anodized Aluminum
Lamp CCT: 4000K
Assembly Code: ZL1N-L96-SMR-6000LM-SBL FST-120-40K-90CRI



FEATURES & SPECIFICATIONS

INTENDED USE — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T5 and T8 lengths. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, cove and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)**

CONSTRUCTION — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install row aligner included for continuous row mounting.

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

OPTICS — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare. L/LENS option available.

ELECTRICAL — L70>60,000hours. Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR... ordering information on page 3.) Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), **multi-volt input and 0-10V dimming standard.** This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

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

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

INSTALLATION — Tool-less channel cover for easy installation.

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

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -40°F (-40°C) and 86°F (30°C).

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

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

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

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

Specifications subject to change without notice.

Catalog Number
Notes
Type



LED Striplight

ZL1N

24", 48" and 96" Lengths



Type:

AL02

Page 1 of 6

Lighting Notes:

1. Mounting to be coordinated with architect

A+ Capable Luminaire

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

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

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

*See ordering tree for details

ZL1N LED Striplight



ORDERING INFORMATION

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

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

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

Color temperature	Color rendering index	Options	Paint finish
30K 3000 K	80CRI 80 CRI	PLR___ Plug-in wiring ^{5,6}	WH White
35K 3500 K	90CRI 90 CRI	PLR1LVG Plug-in wiring-low voltage ^{5,6}	GALV Galvanized
40K 4000 K		E7W Emergency battery pack, 7W CA Title 20 Noncompliant ⁷	MB Matte black
50K 5000 K		2E7W Two Emergency battery packs, 7W CA Title 20 Noncompliant ^{7,8}	SKGY Smoke gray
		E10WLCP Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		2E10WLCP Two Emergency battery packs, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		E15WLCP Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		OUTEND Cord set to exit endplate of fixture	
		Wireless Controls⁵	
		NLTAIR2 RLSXR10 nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°	
		NLTAIR2 RLSXR10EM nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°, UL924 Emergency operation ⁹	
		Individual Controls⁵	
		LBOZU 360° low mount motion sensor, pre-wired ¹⁰	
		LBHOSZU 360° low mount motion sensor with dimming, pre-wired ¹⁰	
		LBPUZU 360° low mount motion sensor with photocell, pre-wired ¹⁰	
		LBMOSZU 360° low mount motion sensor, dimming & switching photocell, pre-wired ¹⁰	
		Cord sets:¹¹	
		CS1W Straight plug, 120V	
		CS3W Twist-lock, 120V	
		CS7W Straight plug, 277V	
		CS11W Twist-lock, 277V	
		CS25W Twist-lock, 347V	
		CS97W Twist-lock, 480V	
		CS93W 600V SEOOOW white cord, no plug (no voltage required)	

Accessories: Order as separate catalog number.			
HC36	Hanger chain, 36"	ZLR L24 SYM WH	24" symmetric reflector, white finish
ZACVH	Aircraft cable 10' (one pair)	ZLR L46 SYM UPL WH	46" symmetric reflector with uplight, white finish
ZLANGBKT	Luma-tilt™ angle bracket for shelf or ledge mounting only	ZLR L46 SYM WH	46" symmetric reflector, white finish
SQ_	Stem kit, 2" increments up to 48"	ZLR L48 ASY WH	48" asymmetric reflector, white finish
NPP16D	nLight® switching/dimming module	ZLR L48 SYM UPL WH	48" symmetric reflector with uplight, white finish
rPP20D	nLight® Air switching/dimming module	ZLR L48 SYM WH	48" symmetric reflector, white finish
LSXR	Sensor Switch™ LSXR occupancy sensor ⁴	ZLR L92 SYM UPL WH	92" symmetric reflector with uplight, white finish
ZSPRG	For 15/16" T-grid only	ZLR L92 SYM WH	92" symmetric reflector, white finish
WG224	24" wireguard, white ¹²	ZLR L96 SYM UPL WH	96" symmetric reflector with uplight, white finish
WG248	48" wireguard, white ^{12,13}	ZLR L96 SYM WH	96" symmetric reflector, white finish
ZLR L24 SYM UPL WH	24" symmetric reflector with uplight, white finish	UNIVERSAL REFL ALIGNER	Universal reflector aligners, quantity 1

Notes

- Not available with 347V, 480V or Batteries
- Optional. Reflectors ship separately.
- See Operational Data on page 2 for actual lumens.
- Utilizes step down transformer.
- See ordering information on pages 4 and 5 and [LSXR specification sheet](#) for more configurations. When choosing Sensor and PLR for same fixture, consult the factory.
- Not available with cord sets.
- MVOLT only. Not available with cord sets with plugs. Battery Spec sheet linked for more information.
- Only available with 10,000LM and 14,000LM packages.
- MVOLT only.
- Available with MVOLT, 347V and 480V only. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). See page 6 for low temperature option providing -4°F (-20°C) minimum ambient. Sensors come prewired, they must be snapped into place at time of installation.
- Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W).
- Not compatible with reflector
- Order 2 for tandem double length fixtures (TZL1N).

Type:

AL02

Page 2 of 6

ZL1N LED Striplight

Type:

AL02

Page 3 of 6

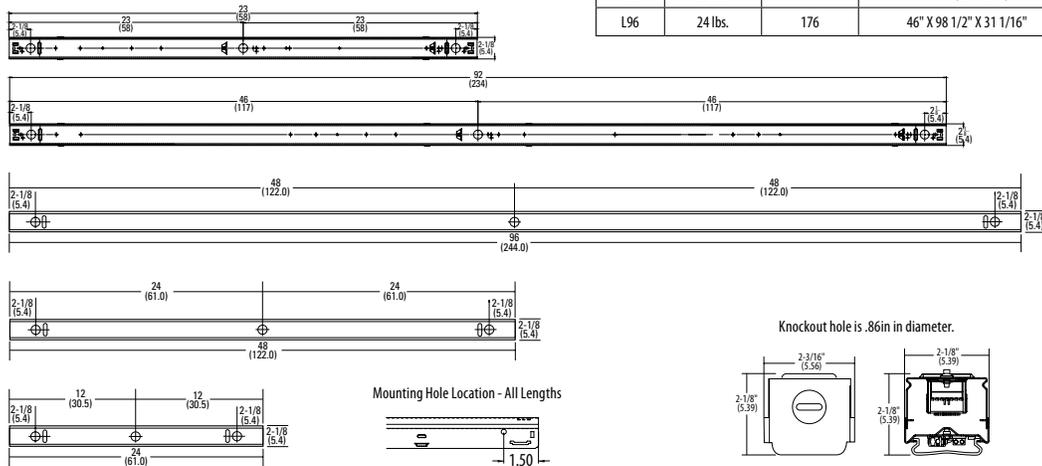
OPERATIONAL DATA												
	Nominal lumen package	Length (inches)	Delivered Lumens 3000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 3500 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 4000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 5000 K CCT @ 77°F (25°C) ambient temperature		Wattage @ 120V/277V	Comparable Light Source
			80 CRI	90 CRI								
Lensed	1500LM	24	1738	1409	1777	1467	1804	1494	1871	1528	15	1-lamp 17W T8
	2500LM	24	2265	1846	2315	1900	2351	1947	2438	1991	19	1-lamp 17W T8
	3500LM	24	3586	2924	3666	3026	3723	3084	3860	3152	31	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	3000LM	46 or 48	3172	2586	3243	2677	3293	2728	3415	2788	25	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	5000LM	46 or 48	4417	3601	4515	3727	4585	3798	4754	3882	34	2-lamp 32W T8, 1-lamp 54W TSHO, 70W HID
	7000LM	46 or 48	6535	5328	6681	5515	6785	5619	7035	5744	52	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	6000LM	92 or 96	6561	5349	6708	5537	6812	5642	7063	5767	48	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	10000LM	92 or 96	8687	7082	8881	7331	9019	7470	9351	7636	68	4-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
Unlensed	14000LM	92 or 96	12457	10513	12735	10665	12933	10711	13409	10949	104	4-lamp 32W T8, 3-lamp 54W TSHO, 150W HID
	1500LM	24	1881	1534	1923	1588	1953	1618	2025	1654	15	1-lamp 17W T8
	2500LM	24	2452	1999	2506	2069	2545	2108	2639	2155	19	1-lamp 17W T8
	3500LM	24	3882	3165	3969	3276	4031	3338	4179	3412	31	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	3000LM	46 or 48	3434	2800	3511	2898	3565	2953	3697	3019	25	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	5000LM	46 or 48	4781	3898	4888	4035	4964	4111	5147	4203	34	2-lamp 32W T8, 1-lamp 54W TSHO, 70W HID
	7000LM	46 or 48	7075	5768	7233	5971	7345	6083	7616	6219	52	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	6000LM	92 or 96	7103	5791	7261	5995	7374	6108	7646	6243	48	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID

DIMENSIONS

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

PALLET DIMENSIONS

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



PHOTOMETRICS

Please see www.lithonia.com

INDUSTRIAL

ZL1N
Page 3 of 6

ARUP

Project Number: 271565
Phone: 1 212 896 3000

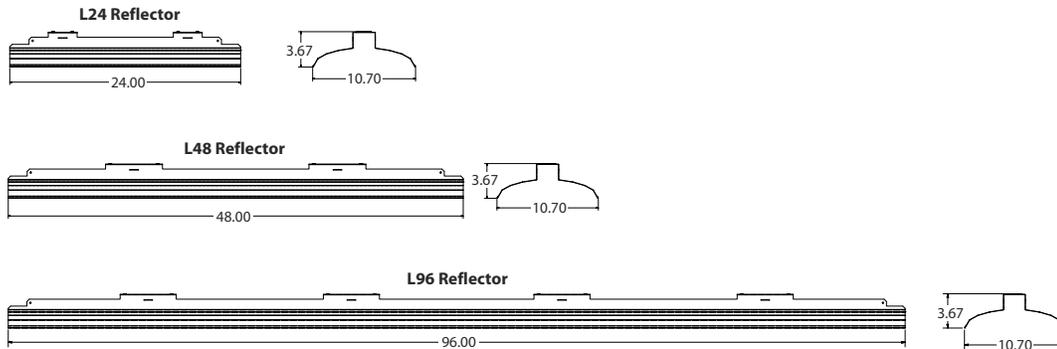
ZL1N LED Striplight

Type:

AL02

Page 4 of 6

REFLECTORS (Optional)



PHOTOMETRICS

Please see www.lithonia.com

PRODUCT INFORMATION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLR22 (2-circuit) and crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Note: Specifications subject to change without notice.



Wiring

PLR

Advanced 1 or 2-Circuit Plug-In

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

Series	Number of hot wires	Branch circuits	Dimming	Ground	
PLR	(blank) Not required for 22	Circuits to which ballast is connected	LV Low-voltage dimming	G Ground, required	
PLR22	1 Black	(blank) Not required for 22 or PLR1			(blank) No emergency circuit
	2 Black and red	A Black wire			ELA Emergency circuit wired to black wire
		B Red wire	ELB Emergency circuit wired to red wire		

Typical Applications

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

ZL1N LED Striplight

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

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

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature
For shortest lead times use one of the following LSXR configurations		
LCOZU	CMRB 50	MSI
LCHOSZU	CMRB 50 D	MSID
LCPZU	CMRB 50 P	MSIPED
LAOZU	CMRB 6	MSI360
LAHOSZU	CMRB 6 D	MSI360D
LAPZU	CMRB 6 P	MSI360PED

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

SINGLE RELAY

Example: LAHOSZU

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

Notes

- 1 Max and min dim levels not applicable with this option.
- 2 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

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

Example: LA2KZU

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

Notes

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

Example: LENS 50 J100

Replacement lenses: Order as separate catalog number.		
Series	Lens type	Package quantity
LENS	6 High mount 360°	(blank) Single Lens
	10 Low mount 360°	J10 10-pack
	50 High mount aisleway	J100 100-pack

Type:

AL02

Page 5 of 6

ZL1N LED Striplight

OPTIONS AND ACCESSORIES

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



HANGER CHAIN
36" chain with Y hanger.

Order as:
HC36



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

Order as:
ZSPRG



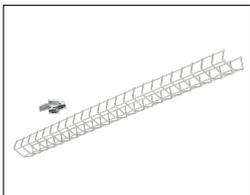
ZACVH HANGER
10' Aircraft cable with Y hanger.

Order as:
ZACVH



ANGLE MOUNTING BRACKET
Luma-tilt™ angle bracket ships as a pair

Order as:
ZLANGBKT



WIRE GUARD

Order as:
WG24
WG48

Type:

AL02

Page 6 of 6

Manufacturer: LITHONIA LIGHTING : ZL1N
Description: Surface Mounted Linear

Fixture Wattage: 25 W
Lumen Output: 2728 lumen
Lamp CRI: 90+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Anodized Aluminum
Lamp CCT: 4000K
Assembly Code: ZL1N-L48-SMR-10000LM-SBL FST-120-40K-90CRI



FEATURES & SPECIFICATIONS

INTENDED USE — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T5 and T8 lengths. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, cove and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)**

CONSTRUCTION — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install row aligner included for continuous row mounting.

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

OPTICS — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare. L/LENS option available.

ELECTRICAL — L70>60,000hours. Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR... ordering information on page 3.) Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), **multi-volt input and 0-10V dimming standard.** This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

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

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

INSTALLATION — Tool-less channel cover for easy installation.

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

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -40°F (-40°C) and 86°F (30°C).

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

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

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

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

Specifications subject to change without notice.

Catalog Number
Notes
Type



LED Striplight

ZL1N

24", 48" and 96" Lengths



Type:
AL02a

Page 1 of 6

Lighting Notes:

1. Mounting to be coordinated with architect

A+ Capable Luminaire

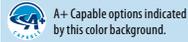
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

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

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

*See ordering tree for details

ZL1N LED Striplight



ORDERING INFORMATION

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

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

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

Color temperature	Color rendering index	Options	Paint finish
30K 3000 K	80CRI 80 CRI	PLR___ Plug-in wiring ^{5,6}	WH White
35K 3500 K	90CRI 90 CRI	PLR1LVG Plug-in wiring-low voltage ^{5,6}	GALV Galvanized
40K 4000 K		E7W Emergency battery pack, 7W CA Title 20 Noncompliant ⁷	MB Matte black
50K 5000 K		2E7W Two Emergency battery packs, 7W CA Title 20 Noncompliant ^{7,8}	SKGY Smoke gray
		E10WLCP Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		2E10WLCP Two Emergency battery packs, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		E15WLCP Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		OUTEND Cord set to exit endplate of fixture	
		Wireless Controls⁵	
		NLTAIR2 RLSXR10 nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°	
		NLTAIR2 RLSXR10EM nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°, UL924 Emergency operation ⁹	
		Individual Controls⁵	
		LBOZU 360° low mount motion sensor, pre-wired ¹⁰	
		LBHOSZU 360° low mount motion sensor with dimming, pre-wired ¹⁰	
		LBPUZU 360° low mount motion sensor with photocell, pre-wired ¹⁰	
		LBMOSZU 360° low mount motion sensor, dimming & switching photocell, pre-wired ¹⁰	
		Cord sets:¹¹	
		CS1W Straight plug, 120V	
		CS3W Twist-lock, 120V	
		CS7W Straight plug, 277V	
		CS11W Twist-lock, 277V	
		CS25W Twist-lock, 347V	
		CS97W Twist-lock, 480V	
		CS93W 600V SEOOOW white cord, no plug (no voltage required)	

Accessories: Order as separate catalog number.			
HC36	Hanger chain, 36"	ZLR L24 SYM WH	24" symmetric reflector, white finish
ZACVH	Aircraft cable 10' (one pair)	ZLR L46 SYM UPL WH	46" symmetric reflector with uplight, white finish
ZLANGBKT	Luma-tilt™ angle bracket for shelf or ledge mounting only	ZLR L46 SYM WH	46" symmetric reflector, white finish
SQ_	Stem kit, 2" increments up to 48"	ZLR L48 ASY WH	48" asymmetric reflector, white finish
NPP16D	nLight® switching/dimming module	ZLR L48 SYM UPL WH	48" symmetric reflector with uplight, white finish
rPP20D	nLight® Air switching/dimming module	ZLR L48 SYM WH	48" symmetric reflector, white finish
LSXR	Sensor Switch™ LSXR occupancy sensor ⁴	ZLR L92 SYM UPL WH	92" symmetric reflector with uplight, white finish
ZSPRG	For 15/16" T-grid only	ZLR L92 SYM WH	92" symmetric reflector, white finish
WG224	24" wireguard, white ¹²	ZLR L96 SYM UPL WH	96" symmetric reflector with uplight, white finish
WG248	48" wireguard, white ^{12,13}	ZLR L96 SYM WH	96" symmetric reflector, white finish
ZLR L24 SYM UPL WH	24" symmetric reflector with uplight, white finish	UNIVERSAL REFL ALIGNER	Universal reflector aligners, quantity 1

Notes

- Not available with 347V, 480V or Batteries
- Optional. Reflectors ship separately.
- See Operational Data on page 2 for actual lumens.
- Utilizes step down transformer.
- See ordering information on pages 4 and 5 and [LSXR specification sheet](#) for more configurations. When choosing Sensor and PLR for same fixture, consult the factory.
- Not available with cord sets.
- MVOLT only. Not available with cord sets with plugs. Battery Spec sheet linked for more information.
- Only available with 10,000LM and 14,000LM packages.
- MVOLT only.
- Available with MVOLT, 347V and 480V only. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). See page 6 for low temperature option providing -4°F (-20°C) minimum ambient. Sensors come prewired, they must be snapped into place at time of installation.
- Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W).
- Not compatible with reflector
- Order 2 for tandem double length fixtures (TZL1N).

Type:

AL02a

Page 2 of 6

ZL1N LED Striplight

Type:
AL02a

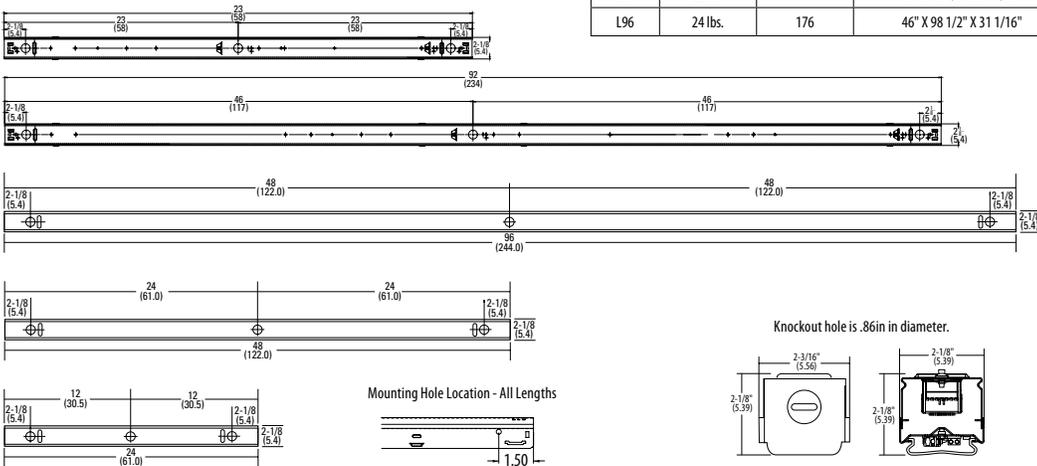
Page 3 of 6

OPERATIONAL DATA												
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			80 CRI	90 CRI								
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	2500LM	24	2265	1846	2315	1900	2351	1947	2438	1991	19	1-lamp 17W T8
	3500LM	24	3586	2924	3666	3026	3723	3084	3860	3152	31	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
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	5000LM	46 or 48	4781	3898	4888	4035	4964	4111	5147	4203	34	2-lamp 32W T8, 1-lamp 54W TSHO, 70W HID
	7000LM	46 or 48	7075	5768	7233	5971	7345	6083	7616	6219	52	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	6000LM	92 or 96	7103	5791	7261	5995	7374	6108	7646	6243	48	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID

DIMENSIONS

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PHOTOMETRICS

Please see www.lithonia.com

INDUSTRIAL

ZL1N
Page 3 of 6

ARUP
Project Number: 271565
Phone: 1 212 896 3000

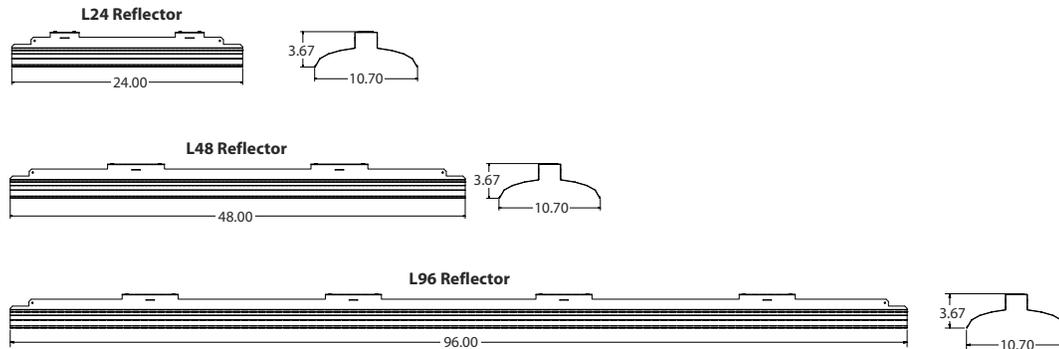
ZL1N LED Striplight

Type:

AL02a

Page 4 of 6

REFLECTORS (Optional)



PHOTOMETRICS

Please see www.lithonia.com

PRODUCT INFORMATION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLR22 (2-circuit) and crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Note: Specifications subject to change without notice.



Wiring

PLR

Advanced 1 or 2-Circuit Plug-In

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

Series	Number of hot wires	Branch circuits	Dimming	Ground	
PLR	(blank) Not required for 22	Circuits to which ballast is connected	LV Low-voltage dimming	G Ground, required	
PLR22	1 Black	(blank) Not required for 22 or PLR1			(blank) No emergency circuit
	2 Black and red	A Black wire			ELA Emergency circuit wired to black wire
		B Red wire	ELB Emergency circuit wired to red wire		

Typical Applications

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

ZL1N LED Striplight

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

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

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature
For shortest lead times use one of the following LSXR configurations		
LCOZU	CMRB 50	MSI
LCHOSZU	CMRB 50 D	MSID
LCPZU	CMRB 50 P	MSIPED
LAOZU	CMRB 6	MSI360
LAHOSZU	CMRB 6 D	MSI360D
LAPZU	CMRB 6 P	MSI360PED

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

SINGLE RELAY

Example: LAHOSZU

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

Notes

- 1 Max and min dim levels not applicable with this option.
- 2 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

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

Example: LA2KZU

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

Notes

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

Example: LENS 50 J100

Replacement lenses: Order as separate catalog number.		
Series	Lens type	Package quantity
LENS	6 High mount 360°	(blank) Single Lens
	10 Low mount 360°	J10 10-pack
	50 High mount aisleway	J100 100-pack

Type:

AL02a

Page 5 of 6

ZL1N LED Striplight**OPTIONS AND ACCESSORIES**

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



HANGER CHAIN
36" chain with Y hanger.

Order as:
HC36



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

Order as:
ZSPRG



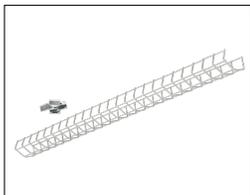
ZACVH HANGER
10' Aircraft cable with Y hanger.

Order as:
ZACVH



ANGLE MOUNTING BRACKET
Luma-tilt™ angle bracket ships as a pair

Order as:
ZLANGBKT



WIRE GUARD

Order as:
WG24
WG48

Type:

AL02a

Page 6 of 6

Manufacturer: CORONET : LSR2 LED LTG1

Description: Recessed Linear

Fixture Wattage: 29 W

Lumen Output: 2700 lumen

Lamp CRI: 90+

Lighting Controls: 0-10V Dimming

Voltage: 120 V

Fixture Finish: Galvanized, Clear anodized or custom RAL

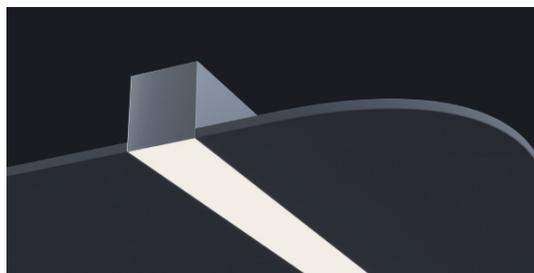
Lamp CCT: 4000K

Assembly Code: LSR2 LED 4 40 LTG1 UNV DB1% CC F SD



LSR2 LED

DATE	PROJECT	FIRM	TYPE
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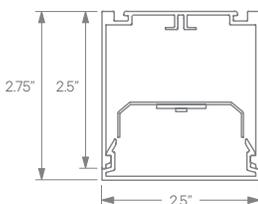
Narrow, recessed, architectural luminaire with semi-recessed lens (protrudes 3/8" from ceiling). For use in indoor applications where an LED luminaire with small profile providing continuous light is required. Suitable for grid systems or drywall installation as well as custom mounting requests.

FEATURES

- Available In Made To Measure Lengths Accurate Up To 1/16"
- Patterns Available (See Page 3)
- Damp Location Rated
- CRI 90+ Standard; R9>50
- 5 Year, 50,000 Hour Fixture Warranty
- 2700K, 3000K, 3500K, 4000K & 5000K Color Temperatures Available
- Available with PoE

APPLICATIONS	Offices, Lobbies, Retail Stores, Classrooms, Reception Areas & Corridors		
CONSTRUCTION	Extruded Aluminum Housing with Steel End Caps. Formed Steel Gear Tray	OPTICS	Extruded High Transmission Satin Acrylic Lens with No LED Imaging. Flat Lens Optional
WARRANTY	5 Year Limited Warranty (Covers Standard Components)		FINISH Standard Powder-Coated White. Custom RAL Colors Available
FIXTURE RATINGS & CERTIFICATIONS	Union Made ETL Listed	Made In The USA Damp Location Rated	DRIVERS & SENSORS For Wiring Diagrams and Sensor Information Click Here
ELECTRICAL	Integral Driver with 0-10V Dimming Standard. Several Driver Options Available		

EXTRUSION DIMENSIONS



NOTE: STANDARD LENS SITS 1/4" BELOW EXTRUDED HOUSING. FLUSH LENS OPTION AVAILABLE.

LED SYSTEM INFORMATION

	Nominal System Watts	Nominal Delivered Lumens	Nominal Efficacy
Standard (LTG1)	7.25 W/ft	675 lm/ft	94 LPW
Low (LTG2)	5 W/ft	508 lm/ft	95 LPW
High (LTG3)	10 W/ft	914 lm/ft	92 LPW

Based on a 3500K luminaire using one driver. Custom outputs available; specify below.

ORDERING

1 - FIXTURE ID LSR2 LED	2 - LENGTH 2 - 2 ft 4 - 4 ft 8 - 8 ft X'-X" - Specify Length PAT - Pattern (Consult Factory)	3 - COLOR TEMP 27 - 2700K/90 CRI 30 - 3000K/90 CRI 35 - 3500K/90 CRI 40 - 4000K/90 CRI 50 - 5000K/90 CRI TW* - Tunable White RGBW** - RGB+3000K *Must use DMX or TW10 Driver **Must use DMX Driver	4 - LED SYSTEM LTG1 - Standard LTG2 - Low LTG3 - High LTGC - Custom Output	5 - VOLTAGE UNV - Universal (120/277V)	6 - DRIVER DB - Standard Dimming (0-10V) DB1% - 1% Dimming (0-10V) DB1% - 0.1% Dimming (0-10V) LTEA - Lutron 2-wire 1% Dimming (120V only) LDE1 - Lutron Digital EcoSystem LDES - 5 Series EcoSystem; 5% Dimming JAB - JAB Compliant 1% Dimming (0-10V) PoE - Power over Ethernet. Consult Factory for Compatibility DMX - For Color Tuning and RGBW (Remote) TW10 - Dual Channel, 0-10V For Color Tuning (CCT and Intensity Control)
7 - FINISH W - White (Standard) CC - Custom Color (provide RAL#)	8 - MOUNTING T - 9/16" Tee Grid T15 - 15/16" Tee Grid SG - Slot Grid/Interlude F - Flange NT - No Trim/Spackle Flange PM-X* - Perimeter Mount *X denotes mounting type on opposite side of wall (ie-PM-NT). Consult Factory	9 - OPTICS SD - Standard Diffuser FL - Flat Lens	10 - CONTROL (Optional) EIS - Enlighted Sensor WISD - Wattstopper Daylight Sensor WISM - Wattstopper Occupancy Sensor SLS - SensiLUM Sensor ACS - Acuity Controls nLight System CCS - Casambi Compatible ECS - Eaton WaveLinx System *For other control systems not listed consult factory.	11 - CIRCUIT (Optional) EM 120V - Emergency Pack EM 277V - Emergency Pack	11 - OTHER OPTIONS WH6 - 6ft Whips Preinstalled CP - Chicago Plenum

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Totowa, NJ 07512

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1/3

Type:

AL12

Page 1 of 3

Lighting Notes:

1. Fixture finish to be specified by architect.
2. Add Alternate: Standard Finish



LSR2 LED

Type:

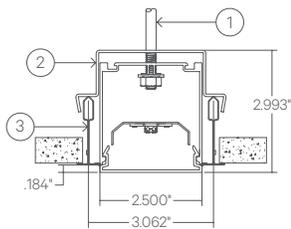
AL12

Page 2 of 3

DATE	PROJECT	FIRM	TYPE
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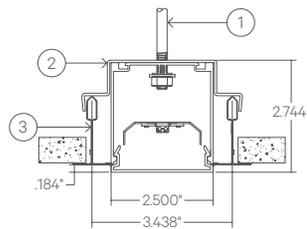
MOUNTING OPTIONS

T - 9/16" Tee Grid



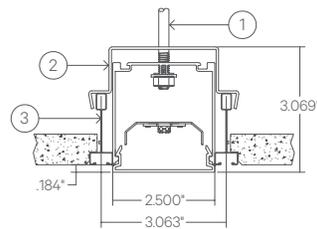
- 1 - Threaded Rod (not supplied)
- 2 - Tee Grid Bracket
- 3 - Tee Grid

T15 - 15/16" Tee Grid



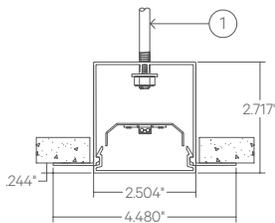
- 1 - Threaded Rod (not supplied)
- 2 - Tee Grid Bracket
- 3 - Tee Grid

SG - Slot Grid/Interlude



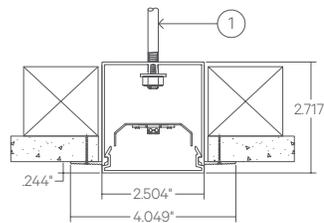
- 1 - Threaded Rod (not supplied)
- 2 - Slot Grid Bracket
- 3 - Slot Grid

F - Flange



- 1 - Threaded Rod (not supplied)

NT - No Trim/Spackle Flange



- 1 - Threaded Rod (not supplied)

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Project Number: 271565
Phone: 1 212 896 3000



LSR2 LED

Type:

AL12

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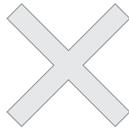
DATE	PROJECT	FIRM	TYPE
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PATTERNS

Patterns feature illuminated corners and angles. **Must consult factory for custom corners and patterns.**



Square Patterns



X Patterns



T Patterns

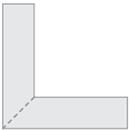


Custom Angles



Custom Patterns

LENS CUT



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ARUP

Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: CORONET : LSR2 LED LTG1

Description: Recessed Linear

Fixture Wattage: 60 W

Lumen Output: 5400 lumen

Lamp CRI: 90+

Lighting Controls: 0-10V Dimming

Voltage: 120 V

Fixture Finish: Anodized Aluminum

Lamp CCT: 4000K

Assembly Code: LSR2 LED 8 40 LTG1 UNV DB1% CC F SD



LSR2 LED

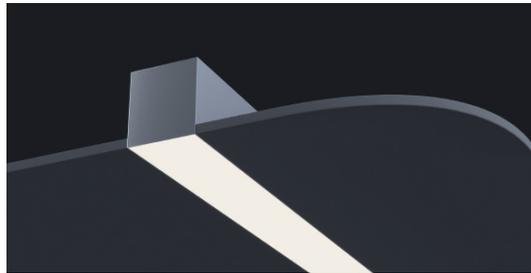
Type:

AL13

Page 1 of 3

Lighting Notes:

DATE	PROJECT	FIRM	TYPE
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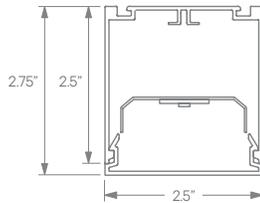
Narrow, recessed, architectural luminaire with semi-recessed lens (protrudes 3/8" from ceiling). For use in indoor applications where an LED luminaire with small profile providing continuous light is required. Suitable for grid systems or drywall installation as well as custom mounting requests.

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- CRI 90+ Standard; R9>50
- 5 Year, 50,000 Hour Fixture Warranty
- 2700K, 3000K, 3500K, 4000K & 5000K Color Temperatures Available
- Available with PoE

APPLICATIONS	Offices, Lobbies, Retail Stores, Classrooms, Reception Areas & Corridors		
CONSTRUCTION	Extruded Aluminum Housing with Steel End Caps. Formed Steel Gear Tray	OPTICS	Extruded High Transmission Satin Acrylic Lens with No LED Imaging. Flat Lens Optional
WARRANTY	5 Year Limited Warranty (Covers Standard Components)		FINISH Standard Powder-Coated White. Custom RAL Colors Available
FIXTURE RATINGS & CERTIFICATIONS	Union Made ETL Listed	Made In The USA Damp Location Rated	DRIVERS & SENSORS For Wiring Diagrams and Sensor Information Click Here
ELECTRICAL	Integral Driver with 0-10V Dimming Standard. Several Driver Options Available		

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Low (LTG2)	5 W/ft	508 lm/ft	95 LPW
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Based on a 3500K luminaire using one driver. Custom outputs available; specify below.

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ARUP

Project Number: 271565
Phone: 1 212 896 3000



LSR2 LED

Type:

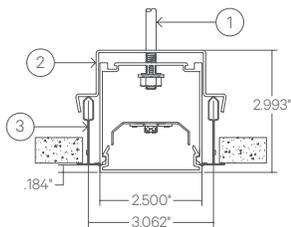
AL13

Page 2 of 3

DATE	PROJECT	FIRM	TYPE
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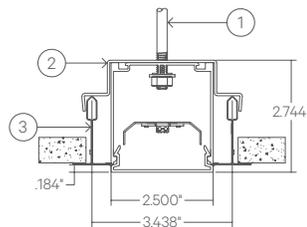
MOUNTING OPTIONS

T - 9/16" Tee Grid



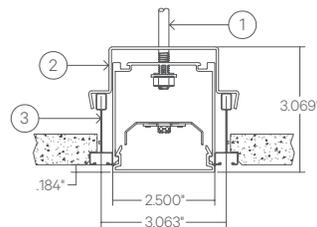
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- 3 - Tee Grid

T15 - 15/16" Tee Grid



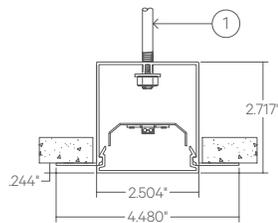
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SG - Slot Grid/Interlude



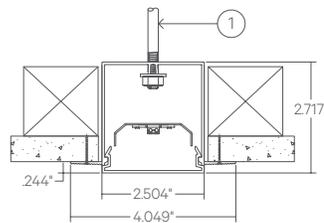
- 1 - Threaded Rod (not supplied)
- 2 - Slot Grid Bracket
- 3 - Slot Grid

F - Flange



- 1 - Threaded Rod (not supplied)

NT - No Trim/Spackle Flange



- 1 - Threaded Rod (not supplied)

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Phone: 1 212 896 3000



LSR2 LED

Type:

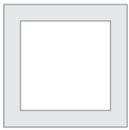
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Page 3 of 3

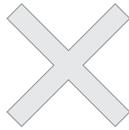
DATE	PROJECT	FIRM	TYPE
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PATTERNS

Patterns feature illuminated corners and angles. **Must consult factory for custom corners and patterns.**



Square Patterns



X Patterns



T Patterns

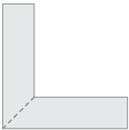


Custom Angles



Custom Patterns

LENS CUT



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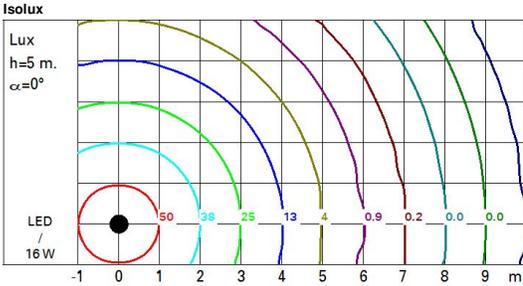
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ARUP

Project Number: 271565
Phone: 1 212 896 3000



UGR diagram

Corrected UGR values (at 2150 lm bare lamp luminous flux)											
Room dim		viewed crosswise					viewed endwise				
x	y										
Reflect.:		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
cell/cav		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
walls		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
work pl.											
2H	2H	20.1	20.9	20.4	27.1	27.3	20.1	20.9	20.4	27.1	27.3
	3H	20.0	20.0	20.3	20.9	27.2	20.0	20.0	20.3	20.9	27.2
	4H	25.9	20.5	20.2	20.8	27.1	25.9	20.5	20.2	20.8	27.1
	0H	25.8	20.4	20.2	20.7	27.0	25.8	20.4	20.2	20.7	27.0
	0H	25.8	20.3	20.2	20.7	27.0	25.8	20.3	20.2	20.7	27.0
	12H	25.8	20.3	20.1	20.6	27.0	25.8	20.3	20.1	20.6	27.0
4H	2H	25.9	20.5	20.2	20.8	27.1	25.9	20.5	20.2	20.8	27.1
	3H	25.8	20.3	20.1	20.6	27.0	25.8	20.3	20.1	20.6	27.0
	4H	25.7	20.1	20.1	20.5	20.9	25.7	20.1	20.1	20.5	20.9
	0H	25.0	20.0	20.0	20.4	20.8	25.0	20.0	20.0	20.4	20.8
	0H	25.5	25.9	20.0	20.3	20.7	25.5	25.9	20.0	20.3	20.7
	12H	25.5	25.8	25.9	20.2	20.7	25.5	25.8	25.9	20.2	20.7
8H	4H	25.5	25.9	20.0	20.3	20.7	25.5	25.9	20.0	20.3	20.7
	0H	25.4	25.7	25.9	20.2	20.7	25.4	25.7	25.9	20.2	20.7
	0H	25.4	25.0	25.9	20.1	20.6	25.4	25.0	25.9	20.1	20.6
	12H	25.3	25.0	25.8	20.0	20.6	25.3	25.0	25.8	20.0	20.6
12H	4H	25.5	25.8	25.9	20.2	20.7	25.5	25.8	25.9	20.2	20.7
	0H	25.4	25.0	25.9	20.1	20.6	25.4	25.0	25.9	20.1	20.6
	0H	25.3	25.0	25.8	20.0	20.6	25.3	25.0	25.8	20.0	20.6
Variations with the observer position at spacing:											
S =	1.0H		3.2 / -10.0				3.2 / -10.0				
	1.5H		5.5 / -23.3				5.5 / -23.3				
	2.0H		7.5 / -25.3				7.5 / -25.3				

Type:
AWS04
Page 2 of 2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: iGuzzini : Palco In Out

Description: Description

Fixture Wattage: 80 W

Lumen Output: 8585 lumen

Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 120 V

Fixture Finish: Galvanized, Clear anodized or custom RAL

Lamp CCT: 4000K

Assembly Code: ES89

Palco InOut

Design Artec3 Studio

iGuzzini

Last information update: October 2020

Product configuration: ES89

ES89: Spotlight with base - Neutral White Led - integrated electronic control gear - H.O. - Ta 25

Product code

ES89: Spotlight with base - Neutral White Led - integrated electronic control gear - H.O. - Ta 25

Technical description

Spotlight designed to use LED lamps and a Wide Flood optic. The optical assembly and base is made of EN1706AC 46100LF aluminium alloy and subjected to a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The following painting stage consists of a primer and a liquid acrylic paint, cured at 150°C, with a high level of weather and UV ray resistance. 5 mm thick tempered sodium-calcium closing glass. Double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Mechanical aiming locks for rotation on both the vertical axis and horizontal plane. Complete with a monochrome LED circuit and an Opti Beam Reflector optic system. The product includes a PG13.5 cable gland. Electronic DALI ballast integrated in product. Option of using optic accessories assembled via an accessory holder frame. All external screws used are made of A2 stainless steel.

Installation

Floor, wall, ceiling or ground-installed via a stake.

Colour	Weight (Kg)
White (01) Grey (15)	6.56

Mounting

wall arm|ground surface|wall surface|ceiling surface

Wiring

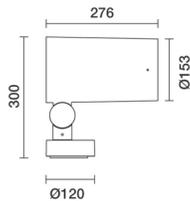
Double PG.

Complies with EN60598-1 and pertinent regulations



Technical data

lm system:	8585	Life Time LED 1:	48,000h - L80 - B10 (Ta 25°C)
W system:	80.6	Ballast losses [W]:	9.6
lm source:	10100	Voltage [Vin]:	230
W source:	71	Lamp code:	LED
Luminous efficiency (lm/W, 106.5 real value):		Number of lamps for optical 1 assembly:	
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	85	Ambient operating temperature range:	from -30°C to 35°C.
Beam angle [°]:	79°	Power factor:	See installation instructions
CRI:	80	Overvoltage protection:	10kV Common mode & 6kV Differential mode
Colour temperature [K]:	4000	Dimming mode:	CCR
MacAdam Step:	3	Control:	DALI



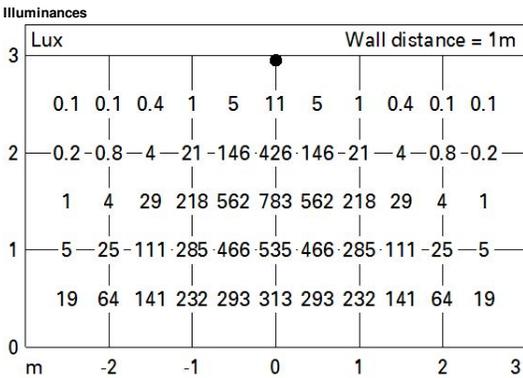
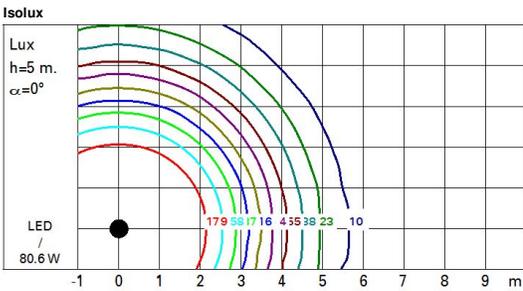
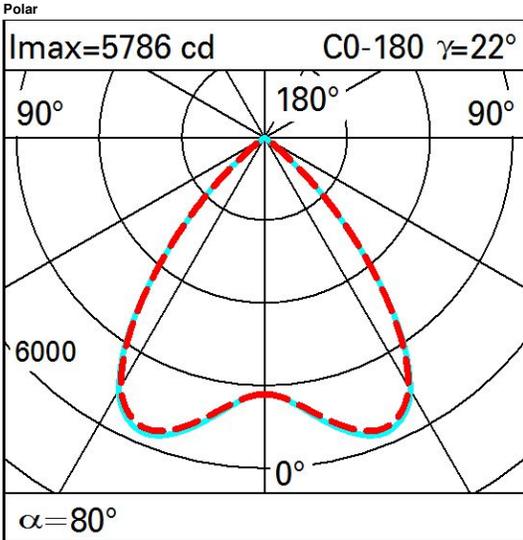
Type:

AWS05

Page 1 of 2

Lighting Notes:

1. Fixture finish to be specified by architect.



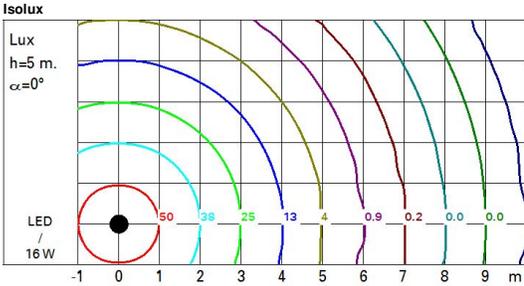
Type:
AWS05
Page 2 of 2

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Project Number: 271565
Phone: 1 212 896 3000

Type:

Welcome Pavilion

ARUP
Project Number: 271565
Phone: 1 212 896 3000



UGR diagram

Corrected UGR values (at 2150 lm bare lamp luminous flux)											
Room dim		viewed crosswise					viewed endwise				
x	y										
Reflect.:		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
cell/cav		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
walls		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
work pl.											
2H	2H	20.1	20.9	20.4	27.1	27.3	20.1	20.9	20.4	27.1	27.3
	3H	20.0	20.0	20.3	20.9	27.2	20.0	20.0	20.3	20.9	27.2
	4H	25.9	20.5	20.2	20.8	27.1	25.9	20.5	20.2	20.8	27.1
	0H	25.8	20.4	20.2	20.7	27.0	25.8	20.4	20.2	20.7	27.0
	0H	25.8	20.3	20.2	20.7	27.0	25.8	20.3	20.2	20.7	27.0
	12H	25.8	20.3	20.1	20.6	27.0	25.8	20.3	20.1	20.6	27.0
4H	2H	25.9	20.5	20.2	20.8	27.1	25.9	20.5	20.2	20.8	27.1
	3H	25.8	20.3	20.1	20.6	27.0	25.8	20.3	20.1	20.6	27.0
	4H	25.7	20.1	20.1	20.5	20.9	25.7	20.1	20.1	20.5	20.9
	0H	25.0	20.0	20.0	20.4	20.8	25.0	20.0	20.0	20.4	20.8
	0H	25.5	25.9	20.0	20.3	20.7	25.5	25.9	20.0	20.3	20.7
	12H	25.5	25.8	25.9	20.2	20.7	25.5	25.8	25.9	20.2	20.7
8H	4H	25.5	25.9	20.0	20.3	20.7	25.5	25.9	20.0	20.3	20.7
	0H	25.4	25.7	25.9	20.2	20.7	25.4	25.7	25.9	20.2	20.7
	0H	25.4	25.0	25.9	20.1	20.6	25.4	25.0	25.9	20.1	20.6
	12H	25.3	25.0	25.8	20.0	20.6	25.3	25.0	25.8	20.0	20.6
12H	4H	25.5	25.8	25.9	20.2	20.7	25.5	25.8	25.9	20.2	20.7
	0H	25.4	25.0	25.9	20.1	20.6	25.4	25.0	25.9	20.1	20.6
	0H	25.3	25.0	25.8	20.0	20.6	25.3	25.0	25.8	20.0	20.6
Variations with the observer position at spacing:											
S =	1.0H		3.2 / -10.0				3.2 / -10.0				
	1.5H		5.5 / -23.3				5.5 / -23.3				
	2.0H		7.5 / -25.3				7.5 / -25.3				

Type:
AWS03
Page 2 of 2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: iGuzzini : Laser Blade
Description: Recessed Linear Fixture

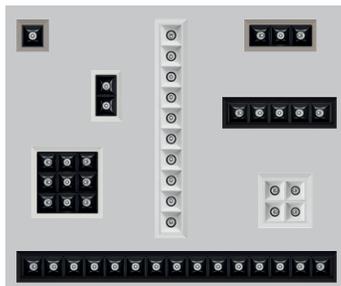
Fixture Wattage: 4 W
Lumen Output: 614 lumen
Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: I.LBXS 05 TR IC 930 WF

LASER BLADE XS
DOWNLIGHT

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 1 of 14



Only 28 mm wide, Laser blade XS is an ultracompact architectural downlight, perfect for retail and hospitality environments. The light is aimed and maximised by a micro optical assembly that uses our patented Opti Beam technology. The light source is also invisible, which guarantees excellent visual comfort.

Luminaire characteristic:	Power input: 2.5W to 34W (system wattage) Lumens: 100lm to 1800lm (for 3000K, 90CRI) Luminaire efficacy: Up to 55lm/W
Source:	White LED (LM-80 tested), 2700K : 90CRI, 3000K : 90CRI, 3500K : 90CRI, 4000K : 90CRI.
Lumen maintenance:	80% of initial lumens at 50 000 hours (L80) (LM79 tested).
Optic:	Low luminance Opti Beam technology with medium, flood and wide flood distribution. See page 4 to 7 for detailed offering.
Material:	Body: die-cast Zamak (zinc/aluminum alloy) Reflector: metalized thermoplastic Baffle: polycarbonate
Mounting:	Retrofit, New construction, New construction insulated ceiling and chicago plenum, See page 8 to 9 for details.
Electrical:	See remote power supply options on page 11 to 14.
Finish:	Black, white (RAL9010) and grey (RAL9006). See details on page 10.
Weight:	LBXS01: 0.15lbs (0.07kg) LBXS02: 0.24lbs (0.11kg) LBXS03: 0.33lbs (0.15kg) LBXS04: 0.24lbs (0.11kg) LBXS05: 1.06lbs (0.48kg) LBXS09: 0.66lbs (0.30kg) LBXS10: 1.21lbs (0.55kg) LBXS15: 1.94lbs (0.88kg)
Warranty:	5 year limited warranty.
Rating:	IP20
Certification:	cULus listed for damp location

Type:

AL08

Page 1 of 14

Lighting Notes:

1. Contractor to coordinate remote driver quantities in accordance with manufacturer recommendations.
2. Contractor to coordinate remote driver locations in nearest possible location with architect.
3. Fixture finish to be specified by architect.

LASER BLADE XS
DOWNLIGHT

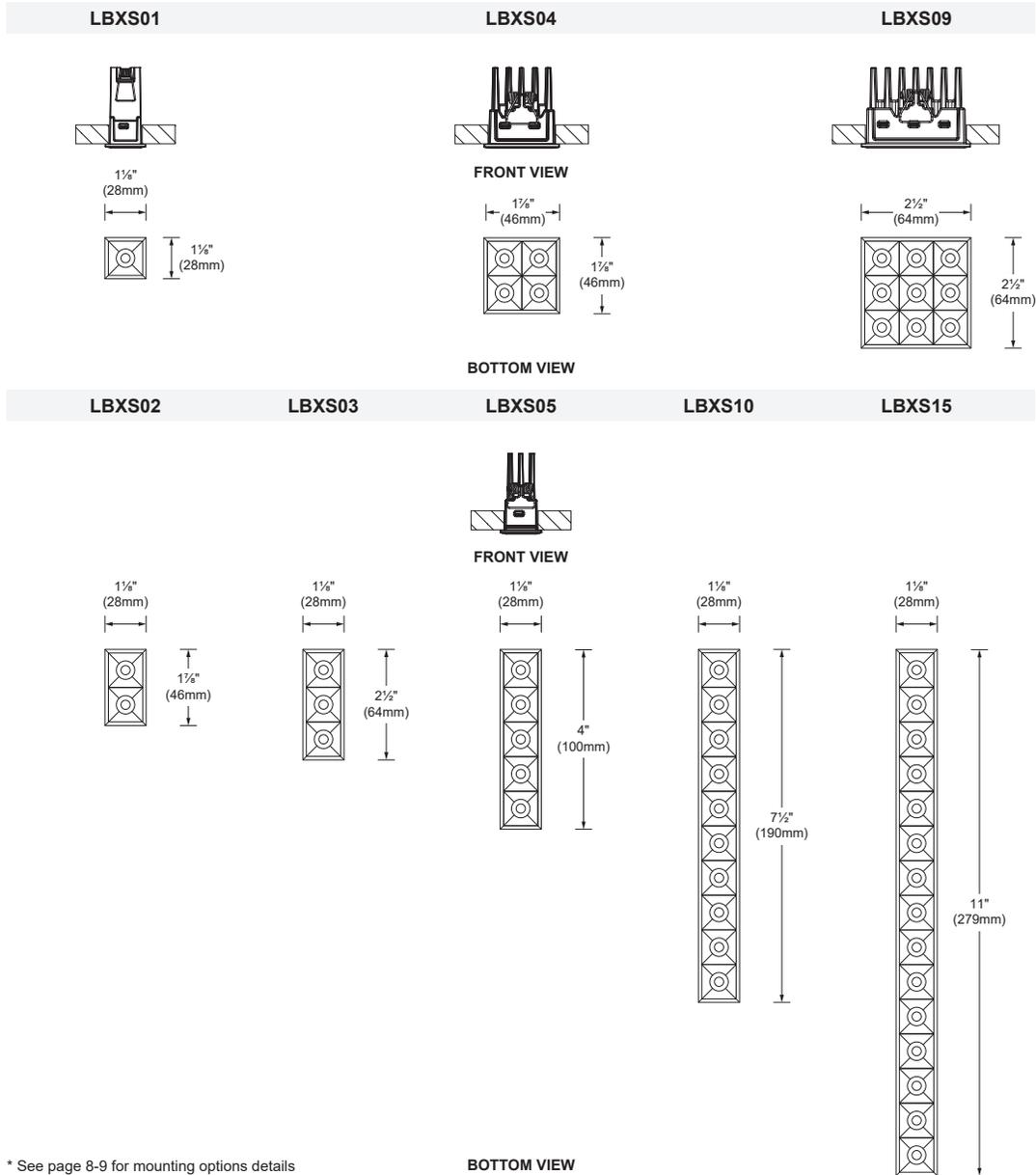
Type: _____ SPECIFICATION SHEET
Project: _____ Page: 2 of 14

Type:

AL08

Page 2 of 14

TRIM MODELS DIMENSIONS



* See page 8-9 for mounting options details

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LASER BLADE XS
DOWNLIGHT

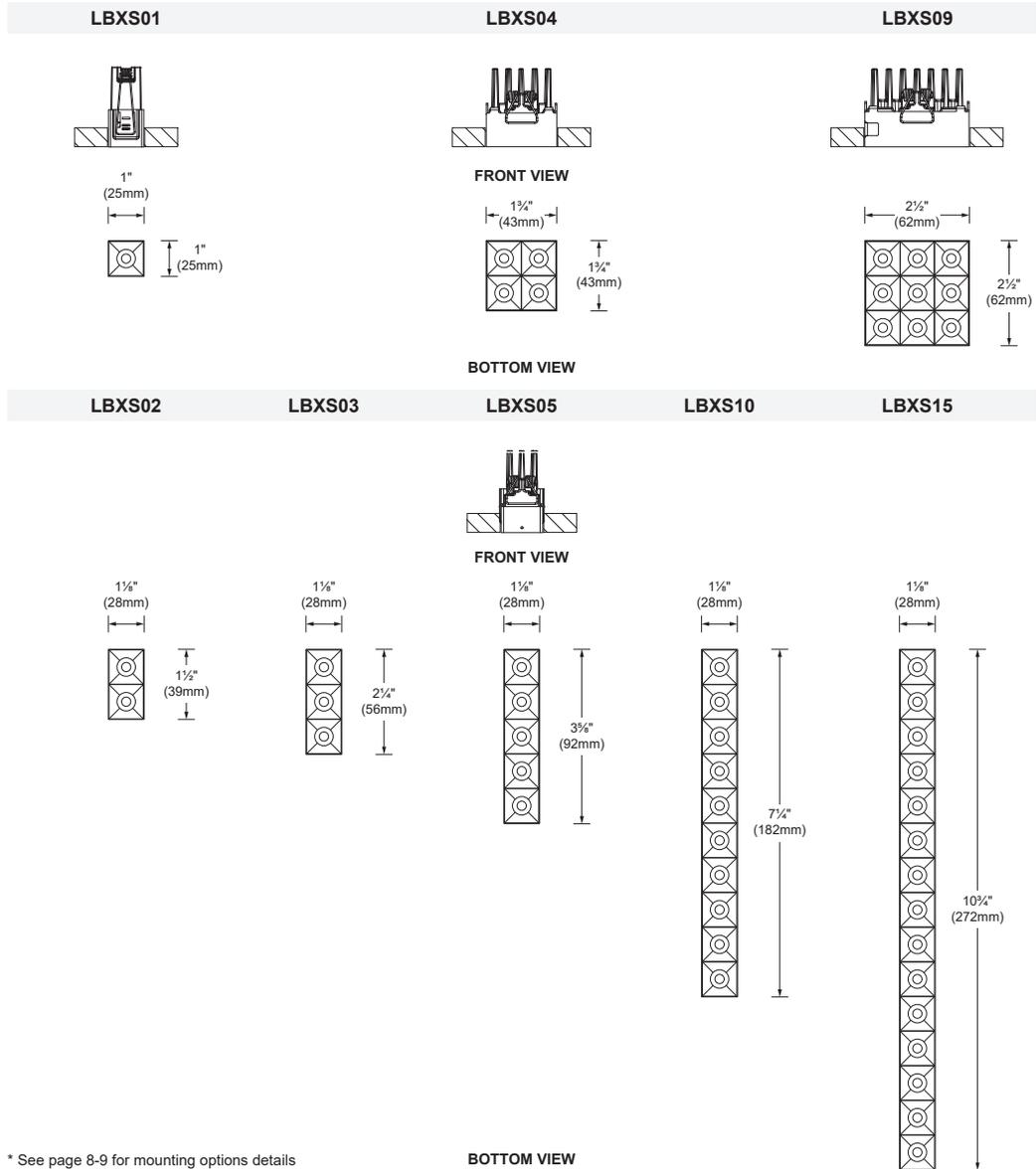
Type: _____ SPECIFICATION SHEET
Project: _____ Page: 3 of 14

Type:

AL08

Page 3 of 14

TRIMLESS MODELS DIMENSIONS



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LASER BLADE XS
DOWNLIGHT

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 4 of 14

Type:

AL08

Page 4 of 14

PHOTOMETRIC DATA

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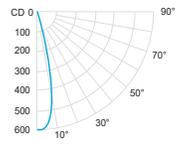
LBXS01



LOAD (W)	CCT (K)	CRI	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODEL
2.5W	3000K	90	Medium 24°	125	50	595	I.LBXS01-930-MD
			Flood 41°	135	54	285	I.LBXS01-930-FL

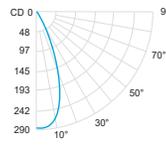
*USE MULTIPLIER TABLE BELOW FOR OTHER CCT AND CRI OUTPUT DATA

Medium 24° (3000K, 90 CRI)



Center Beam fc	Beam Width ft	
2ft	148	0.9
4ft	37.5	1.7
6ft	16.5	2.6
8ft	9.26	3.5
10ft	5.93	4.3
12ft	4.12	5.2

Flood 41° (3000K, 90 CRI)



Center Beam fc	Beam Width ft	
2ft	71.0	1.5
4ft	17.8	3.0
6ft	7.89	4.5
8ft	4.44	6.0
10ft	2.84	7.5
12ft	1.97	9.0

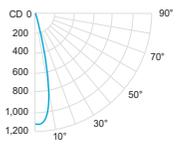
LBXS02



4.5W	3000K	90	Medium 24°	240	53	1 125	I.LBXS02-930-MD
			Flood 41°	255	56	535	I.LBXS02-930-FL
			Wide flood 58°	265	58	335	I.LBXS02-930-WF

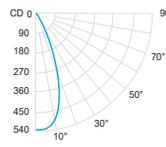
*USE MULTIPLIER TABLE BELOW FOR OTHER CCT AND CRI OUTPUT DATA

Medium 24° (3000K, 90 CRI)



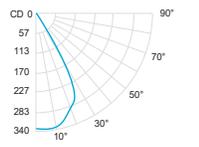
Center Beam fc	Beam Width ft	
2ft	279	0.9
4ft	69.8	1.8
6ft	31.0	2.7
8ft	17.4	3.5
10ft	11.2	4.4
12ft	7.75	5.3

Flood 41° (3000K, 90 CRI)



Center Beam fc	Beam Width ft	
2ft	71.0	1.5
4ft	17.8	3.0
6ft	7.89	4.5
8ft	4.44	6.0
10ft	2.84	7.5
12ft	1.97	9.0

Wide flood 58° (3000K, 90 CRI)



Center Beam fc	Beam Width ft	
2ft	83.7	2.2
4ft	20.9	4.4
6ft	9.30	6.6
8ft	5.23	8.8
10ft	3.35	11.0
12ft	2.32	13.2

CCT options	2700K	3000K	3500K	4000K
CRI options	90CRI	90CRI	90CRI	90CRI
Multiplier	0.94	1	1	1.13

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Project Number: 271565
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LASER BLADE XS
DOWNLIGHT

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 5 of 14

Type:

AL08

Page 5 of 14

PHOTOMETRIC DATA

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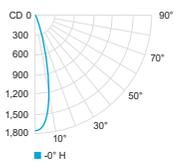
LBXS03



LOAD (W)	CCT (K)	CRI	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODEL
7.5W	3000K	90	Medium 24°	375	50	1 750	I.LBXS03-930-MD
			Flood 41°	395	52	815	I.LBXS03-930-FL
			Wide flood 58°	395	52	505	I.LBXS03-930-WF

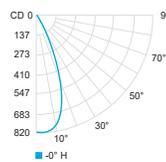
*USE MULTIPLIER TABLE BELOW FOR OTHER CCT AND CRI OUTPUT DATA

Medium 24° (3000K, 90 CRI)



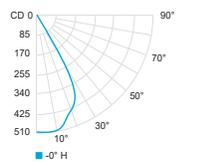
Center Beam fc	Beam Width ft
2ft	438 0.9
4ft	110 1.8
6ft	48.7 2.7
8ft	27.4 3.5
10ft	17.6 4.4
12ft	12.2 5.3

Flood 41° (3000K, 90 CRI)



Center Beam fc	Beam Width ft
2ft	202 1.5
4ft	50.6 3.0
6ft	22.5 4.6
8ft	12.6 6.1
10ft	8.1 7.6
12ft	5.62 9.1

Wide flood 58° (3000K, 90 CRI)



Center Beam fc	Beam Width ft
2ft	125 2.2
4ft	31.3 4.4
6ft	13.9 6.6
8ft	7.83 8.8
10ft	5.01 11.0
12ft	3.48 13.2

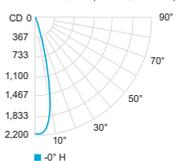
LBXS04



LOAD (W)	CCT (K)	CRI	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODEL
10W	3000K	90	Medium 24°	470	47	2 180	I.LBXS04-930-MD
			Flood 41°	495	49	1 040	I.LBXS04-930-FL
			Wide flood 58°	510	51	655	I.LBXS04-930-WF

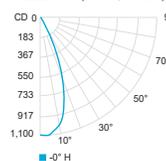
*USE MULTIPLIER TABLE BELOW FOR OTHER CCT AND CRI OUTPUT DATA

Medium 24° (3000K, 90 CRI)



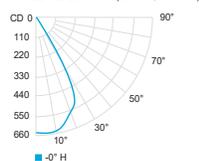
Center Beam fc	Beam Width ft
2ft	541 0.9
4ft	135 1.8
6ft	60.1 2.7
8ft	33.8 3.5
10ft	21.6 4.4
12ft	15.0 5.3

Flood 41° (3000K, 90 CRI)



Center Beam fc	Beam Width ft
2ft	259 1.5
4ft	64.8 3.0
6ft	28.8 4.6
8ft	16.2 6.1
10ft	10.4 7.6
12ft	7.19 9.1

Wide flood 58° (3000K, 90 CRI)



Center Beam fc	Beam Width ft
2ft	162 2.2
4ft	40.5 4.4
6ft	18.0 6.6
8ft	10.1 8.8
10ft	6.48 11.0
12ft	4.50 13.2

CCT options	2700K	3000K	3500K	4000K
CRI options	90CRI	90CRI	90CRI	90CRI
Multiplier	0.94	1	1	1.13

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Project: _____ Page: 6 of 14

Type:

AL08

Page 6 of 14

PHOTOMETRIC DATA

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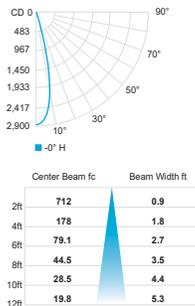
LBXS05



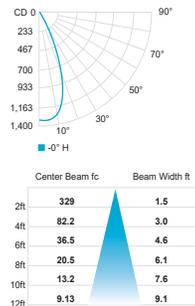
LOAD (W)	CCT (K)	CRI	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODEL
13W	3000K	90	Medium 24°	615	47	2 845	I.LBXS05-930-MD
			Flood 41°	645	49	1 330	I.LBXS05-930-FL
			Wide flood 58°	645	49	825	I.LBXS05-930-WF

*USE MULTIPLIER TABLE BELOW FOR OTHER CCT AND CRI OUTPUT DATA

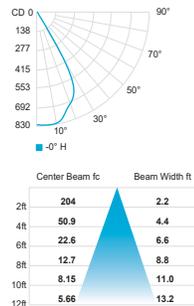
Medium 24° (3000K, 90 CRI)



Flood 41° (3000K, 90 CRI)



Wide flood 58° (3000K, 90 CRI)



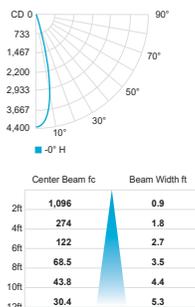
LBXS09



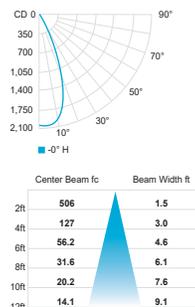
LOAD (W)	CCT (K)	CRI	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODEL
19W	3000K	90	Medium 24°	945	49	4 380	I.LBXS09-930-MD
			Flood 41°	995	52	2 045	I.LBXS09-930-FL
			Wide flood 58°	995	52	1 265	I.LBXS09-930-WF

*USE MULTIPLIER TABLE BELOW FOR OTHER CCT AND CRI OUTPUT DATA

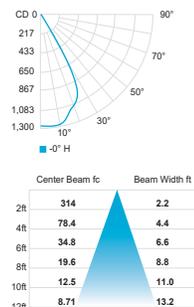
Medium 24° (3000K, 90 CRI)



Flood 41° (3000K, 90 CRI)



Wide flood 58° (3000K, 90 CRI)



CCT options	2700K	3000K	3500K	4000K
CRI options	90CRI	90CRI	90CRI	90CRI
Multiplier	0.94	1	1	1.13

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LASER BLADE XS
DOWNLIGHT

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 7 of 14

Type:

AL08

Page 7 of 14

PHOTOMETRIC DATA

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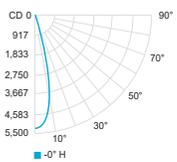
LBXS10



LOAD (W)	CCT (K)	CRI	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODEL
23W	3000K	90	Medium 24°	1 180	51	5 475	I.LBXS10-930-MD
			Flood 41°	1 240	53	2 555	I.LBXS10-930-FL
			Wide flood 58°	1 240	53	1 585	I.LBXS10-930-WF

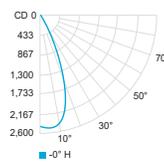
*USE MULTIPLIER TABLE BELOW FOR OTHER CCT AND CRI OUTPUT DATA

Medium 24° (3000K, 90 CRI)



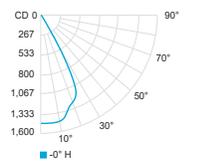
Center Beam fc	Beam Width ft
2ft	1369 0.9
4ft	342 1.8
6ft	152 2.7
8ft	85.5 3.5
10ft	54.8 4.4
12ft	38.0 5.3

Flood 41° (3000K, 90 CRI)



Center Beam fc	Beam Width ft
2ft	633 1.5
4ft	158 3.0
6ft	70.3 4.6
8ft	39.5 6.1
10ft	25.3 7.6
12ft	17.6 9.1

Wide flood 58° (3000K, 90 CRI)



Center Beam fc	Beam Width ft
2ft	392 2.2
4ft	97.9 4.4
6ft	43.5 6.6
8ft	24.5 8.8
10ft	15.7 11.0
12ft	10.9 13.2

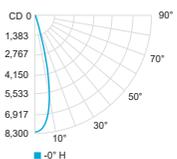
LBXS15



LOAD (W)	CCT (K)	CRI	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODEL
34W	3000K	90	Medium 24°	1 775	52	8 210	I.LBXS15-930-MD
			Flood 41°	1 865	55	3 835	I.LBXS15-930-FL
			Wide flood 58°	1 865	55	2 380	I.LBXS15-930-WF

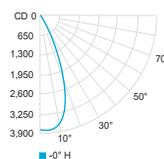
*USE MULTIPLIER TABLE BELOW FOR OTHER CCT AND CRI OUTPUT DATA

Medium 24° (3000K, 90 CRI)



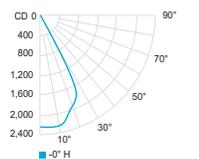
Center Beam fc	Beam Width ft
2ft	2053 0.9
4ft	513 1.8
6ft	228 2.7
8ft	128 3.5
10ft	82.1 4.4
12ft	57.0 5.3

Flood 41° (3000K, 90 CRI)



Center Beam fc	Beam Width ft
2ft	949 1.5
4ft	237 3.0
6ft	105 4.6
8ft	59.3 6.1
10ft	38.0 7.6
12ft	26.4 9.1

Wide flood 58° (3000K, 90 CRI)



Center Beam fc	Beam Width ft
2ft	588 2.2
4ft	147 4.4
6ft	65.3 6.6
8ft	36.8 8.8
10ft	23.5 11.0
12ft	16.3 13.2

CCT options	2700K	3000K	3500K	4000K
CRI options	90CRI	90CRI	90CRI	90CRI
Multiplier	0.94	1	1	1.13

JP - R8 Last update: November 05, 2019

Due to continuous improvements, the information herein may be changed without notice



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ARUP

Project Number: 271565
Phone: 1 212 896 3000

LASER BLADE XS
DOWNLIGHT

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 8 of 14

Type:

AL08

Page 8 of 14

INSTALLATION OPTION FOR 1 - 2 CELL

Remodel (RF)

Versatile fixture for new or existing ceiling structure. Suitable for insulated or non-insulated ceiling assemblies, like sheetrock, or paneling. Fixture is ready for remodeling installation. Trimless frame kit and fixture can be shipped separately. Installation from below.



Ceiling thickness:
Trim: 1/8" to 1/4" (3mm - 29mm)
Trimless: 3/8" (16mm)

*Power supply is not accessible from luminaire opening.

Model	Mounting	Trimless frame kit	Cut-out dimension*	Clearance
LBXS01	Trim		1" x 1" (24 x 24mm)	2" (50mm)
	Trimless	TK-LBXS01TL-RF	1 1/8" x 1 1/8" (29 x 29mm)	
LBXS02	Trim		1" x 1 1/8" (24 x 42mm)	
	Trimless	TK-LBXS02TL-RF	1 1/8" x 1 1/8" (29 x 41mm)	

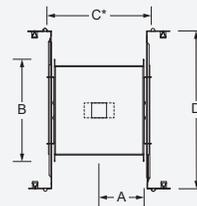
New construction with plaster frame (NC)

Plaster frame with hanger bars system to be installed during rough-in phase. Suitable for insulated or non-insulated new construction ceiling assemblies, like sheetrock, acoustic tiles, or paneling. Plaster frame and fixture can be shipped separately. **(Power supply is not accessible from luminaire opening)**



Ceiling thickness:
Trim: 1/8" to 1/4" (3mm - 29mm)
Trimless: 3/8" (16mm)

Total weight: TBC



*Provide a minimum of 1/8" (46mm) on each side for the hanger bar fixations

Model	Plaster Frame	Cut-out dimensions	Cut-out position (A)	Overall dimensions (BxC)	Hanger bars (D)	Clearance
LBXS01	BN-LBXS01TR-NC	1" x 1" (24 x 24mm)	3" (76mm)	6 1/4" x 6" (174mm x 152mm)	9" to 15 1/4" (229 to 387mm)	2" (50mm)
	BN-LBXS01TL-NC	1 1/8" x 1 1/8" (29 x 29mm)				
LBXS02	BN-LBXS02TR-NC	1" x 1 1/8" (24 x 42mm)	2 1/2" (64mm)	5 3/8" x 6" (149mm x 152mm)		
	BN-LBXS02TL-NC	1 1/8" x 1 1/8" (29 x 42mm)				

LASER BLADE XS
DOWNLIGHT

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 9 of 14

Type:

AL08

Page 9 of 14

INSTALLATION OPTION FOR 3 - 4 - 5 - 9 - 10 - 15 CELL

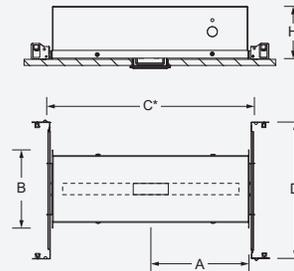
New construction with housing suitable for insulated ceiling (IC) or Chicago plenum (CP)

Housing with hanger bars system for new construction installations. Suitable for insulated ceiling or Chicago Plenum applications. Housing and fixture can be shipped separately.

Ceiling thickness:

Trim: 1/8" to 1 1/4" (3mm - 29mm)
Trimless: 3/4" (16mm)

*Power supply is not accessible from luminaire opening.



*Provide a minimum of 1/4" (46mm) on each side for the hanger bar fixations

Model	Housing	Cut-out dimensions	Cut-out position (A)	Overall dimensions (BxC)	Hanger bars (D)	Clearance (H)				
LBXS03	BI-LBXS03TR-IC/CP	1" x 2 3/8" (24 x 60mm)	2 1/2" (64mm)	5 1/4" x 6" (145mm x 152mm)	9" to 15 1/4" (229 to 387mm)	3/4" (80mm)				
	BI-LBXS03TL-IC/CP	1 1/8" x 2 3/8" (29 x 60mm)								
LBXS04	BI-LBXS04TR-IC/CP	1 3/8" x 1 3/8" (42 x 42mm)	5" (129mm)	5 3/4" x 10 1/4" (145mm x 257mm)		14 1/4" to 26" (362 to 660mm)	4 5/8" (116mm)			
	BI-LBXS04TL-IC/CP	1 3/8" x 1 7/8" (48 x 48mm)								
LBXS05	BI-LBXS05TR-IC/CP	1" x 3 3/4" (24 x 95mm)	5" (125mm)	9 3/4" x 9 3/4" (238mm x 253mm)				14 1/4" to 26" (362 to 660mm)	6" (150mm)	
	BI-LBXS05TL-IC/CP	1 1/8" x 3 3/4" (29 x 95mm)								
LBXS09	BI-LBXS09TR-IC/CP	2 3/8" x 2 3/8" (60 x 60mm)	8 3/8" (213mm)	6 3/4" x 17" (171mm x 434mm)	14 1/4" to 26" (362 to 660mm)					6" (150mm)
	BI-LBXS09TL-IC/CP	2 3/8" x 2 3/8" (67 x 67mm)								
LBXS10	BI-LBXS10TR-IC/CP	1" x 7 3/4" (24 x 186mm)	10" (250mm)	13 3/4" x 19 3/4" (353mm x 502mm)		14 1/4" to 26" (362 to 660mm)	6" (150mm)			
	BI-LBXS10TL-IC/CP	1 1/8" x 7 1/4" (29 x 184mm)								
LBXS15	BI-LBXS15TR-IC/CP	1" x 10 3/8" (24 x 276mm)	10" (250mm)	13 3/4" x 19 3/4" (353mm x 502mm)				14 1/4" to 26" (362 to 660mm)	6" (150mm)	
	BI-LBXS15TL-IC/CP	1 1/4" x 10 3/8" (29 x 274mm)								

LASER BLADE XS
DOWNLIGHT

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 10 of 14

Type:

AL08

Page 10 of 14

ORDERING INFO

FIXTURE	MOUNTING	RESET INFO
MODEL		
<input type="checkbox"/> 01 - Single ⁽¹⁾⁽²⁾	<input type="checkbox"/> 02 - Double ⁽²⁾	<input type="checkbox"/> 03 - Triple ⁽²⁾
<input checked="" type="checkbox"/> 05 - Five ⁽²⁾	<input type="checkbox"/> 09 - Nine, square ⁽²⁾	<input type="checkbox"/> 10 - Ten ⁽²⁾
<input type="checkbox"/> 04 - Four, square ⁽²⁾	<input type="checkbox"/> 15 - Fifteen ⁽²⁾	
MOUNTING		
<input type="checkbox"/> TR - Trim	<input type="checkbox"/> TL - Trimless	
INSTALLATION		
<input type="checkbox"/> RF - Remodeling (No housing)	<input type="checkbox"/> NC - New construction plaster frame	<input type="checkbox"/> IC - Insulated ceiling housing
		<input type="checkbox"/> CP - Chicago plenum housing
LED		
<input type="checkbox"/> 927 - 2700K, 90 CRI	<input checked="" type="checkbox"/> 930 - 3000K, 90 CRI	<input type="checkbox"/> 935 - 3500K, 90 CRI
		<input type="checkbox"/> 940 - 4000K, 90 CRI
OPTIC		
<input type="checkbox"/> MD - Medium 24°	<input type="checkbox"/> FL - Flood 41°	<input type="checkbox"/> WF - Wide flood 58°
VOLTAGE		
<input checked="" type="checkbox"/> REM - Remote		
FINISH (trim finish / baffle finish)		
<input checked="" type="checkbox"/> Black baffle	White trim	Gray trim
<input checked="" type="checkbox"/> White baffle	<input type="checkbox"/> 01 - White/Black	<input type="checkbox"/> 10 - Gray/Black
	<input type="checkbox"/> 31 - White/White	Black trim
		<input type="checkbox"/> 02 - Black/Black
		Trimless
		<input type="checkbox"/> 02 - Black
		<input type="checkbox"/> 31 - White

⁽¹⁾Only available with medium (MD) or flood (FL) optics (see page 4 for details).
⁽²⁾Only available with remodeling (RF) or new construction plaster frame (NC) installations (see page 8 for details).
⁽³⁾Only available with insulated ceiling housing (IC) or chicago plenum housing (CP) installations (see page 8 for details).

LASER BLADE XS
DOWNLIGHT

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 11 of 14

Type:

AL08

Page 11 of 14

REMOTE POWER SUPPLY OPTIONS
(TO BE ORDERED SEPARATELY)

For LBXS01 • 2W* • 700mA



Min-max units	Watts	Voltage	Dimming protocol	Dimming range	Connexion box dimensions	Max distance**	Connexion box
4	11	120-277V	None	None	6" x 4" x 3" (152 x 102 x 76mm)	30ft (9m)	4444-0700-011-UNV-ND <input type="checkbox"/>
8-14	32	120V	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 4" x 3" (152 x 102 x 76mm)	30ft (9m)	4444-0700-032-120-LTE <input type="checkbox"/>
14-16	40	120V	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 6" x 3" (152 x 152 x 76mm)	30ft (9m)	4445-0700-040-120-LTE <input type="checkbox"/>
12-16	37	120-277V	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to ±1%	5" x 4" x 3" (127 x 102 x 76mm)	30ft (9m)	4443-0700-037-UNV-D2 <input type="checkbox"/>
1-15	30	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-ED10 <input type="checkbox"/>
1-15	30	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-SD10 <input type="checkbox"/>
1-16	38	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-038-UNV-ED10 <input type="checkbox"/>
1-48 12 per channel	100	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	10" x 8" x 4" (254 x 203 x 101mm)	118ft (36m)	4448-0700-100-UNV-SD10 (4 channels) <input type="checkbox"/>

For LBXS02 • 4W* • 700mA



Min-max units	Watts	Voltage	Dimming protocol	Dimming range	Connexion box dimensions	Max distance**	Connexion box
2	11	120-277V	None	None	6" x 4" x 3" (152 x 102 x 76mm)	30ft (9m)	4444-0700-011-UNV-ND <input type="checkbox"/>
4-7	32	120V	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 4" x 3" (152 x 102 x 76mm)	30ft (9m)	4444-0700-032-120-LTE <input type="checkbox"/>
7-8	40	120V	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 6" x 3" (152 x 152 x 76mm)	30ft (9m)	4445-0700-040-120-LTE <input type="checkbox"/>
6-8	37	120-277V	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to ±1%	5" x 4" x 3" (127 x 102 x 76mm)	30ft (9m)	4443-0700-037-UNV-D2 <input type="checkbox"/>
1-7	30	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-ED10 <input type="checkbox"/>
1-7	30	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-SD10 <input type="checkbox"/>
1-8	38	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-038-UNV-ED10 <input type="checkbox"/>
1-24 6 per channel	100	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	10" x 8" x 4" (254 x 203 x 101mm)	118ft (36m)	4448-0700-100-UNV-SD10 (4 channels) <input type="checkbox"/>

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

** Calculated for 16AWG cable. Contact customer service for longer remote distance.

LASER BLADE XS
DOWNLIGHT

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 12 of 14

Type:

AL08

Page 12 of 14

REMOTE POWER SUPPLY OPTIONS
(TO BE ORDERED SEPARATELY)

For LBXS03 • 6W* • 700mA



Min-max units	Watts	Voltage	Dimming protocol	Dimming range	Connexion box dimensions	Max distance**	Connexion box
3-4	32	120V	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 4" x 3" (152 x 102 x 76mm)	30ft (9m)	4444-0700-032-120-LTE <input type="checkbox"/>
5	40	120V	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 6" x 3" (152 x 152 x 76mm)	30ft (9m)	4445-0700-040-120-LTE <input type="checkbox"/>
4-5	37	120-277V	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to ±1%	5" x 4" x 3" (127 x 102 x 76mm)	30ft (9m)	4443-0700-037-UNV-D2 <input type="checkbox"/>
1-5	30	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-ED10 <input type="checkbox"/>
1-5	30	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-SD10 <input type="checkbox"/>
1-5	38	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-038-UNV-ED10 <input type="checkbox"/>
1-16 4 per channel	100	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	10" x 8" x 4" (254 x 203 x 101mm)	118ft (36m)	4448-0700-100-UNV-SD10 (4 channels) <input type="checkbox"/>

For LBXS04 • 8W* • 700mA



Min-max units	Watts	Voltage	Dimming protocol	Dimming range	Connexion box dimensions	Max distance**	Connexion box
1	11	120-277V	None	None	6" x 4" x 3" (152 x 102 x 76mm)	30ft (9m)	4444-0700-011-UNV-ND <input type="checkbox"/>
2-3	32	120V	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 4" x 3" (152 x 102 x 76mm)	30ft (9m)	4444-0700-032-120-LTE <input type="checkbox"/>
4	40	120V	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 6" x 3" (152 x 152 x 76mm)	30ft (9m)	4445-0700-040-120-LTE <input type="checkbox"/>
3-4	37	120-277V	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to ±1%	5" x 4" x 3" (127 x 102 x 76mm)	30ft (9m)	4443-0700-037-UNV-D2 <input type="checkbox"/>
1-3	30	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-ED10 <input type="checkbox"/>
1-3	30	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-SD10 <input type="checkbox"/>
1-4	38	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-038-UNV-ED10 <input type="checkbox"/>
1-12 3 per channel	100	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	10" x 8" x 4" (254 x 203 x 101mm)	118ft (36m)	4448-0700-100-UNV-SD10 (4 channels) <input type="checkbox"/>

* Wattage requirement for one (1) fixture (Remote fixture only).
** Calculated for 16AWG cable. Contact customer service for longer remote distance.

LASER BLADE XS
DOWNLIGHT

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 13 of 14

Type:

AL08

Page 13 of 14

REMOTE POWER SUPPLY OPTIONS
(TO BE ORDERED SEPARATELY)

For **LBXS05** • 10W* • 700mA



Min-max units	Watts	Voltage	Dimming protocol	Dimming range	Connexion box dimensions	Max distance**	Connexion box
2	32	120V	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 4" x 3" (152 x 102 x 76mm)	30ft (9m)	4444-0700-032-120-LTE <input type="checkbox"/>
3	40	120V	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 6" x 3" (152 x 152 x 76mm)	30ft (9m)	4445-0700-040-120-LTE <input type="checkbox"/>
3	37	120-277V	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to ±1%	5" x 4" x 3" (127 x 102 x 76mm)	30ft (9m)	4443-0700-037-UNV-D2 <input type="checkbox"/>
1-3	30	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-ED10 <input type="checkbox"/>
1-3	30	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-SD10 <input type="checkbox"/>
1-3	38	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-038-UNV-ED10 <input type="checkbox"/>
1-8 2 per channel	100	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	10" x 8" x 4" (254 x 203 x 101mm)	118ft (36m)	4448-0700-100-UNV-SD10 (4 channels) <input type="checkbox"/>



For **LBXS09** • 16W* • 600mA

Min-max units	Watts	Voltage	Dimming protocol	Dimming range	Connexion box dimensions	Max distance**	Connexion box
1	32	120V	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 4" x 3" (152 x 102 x 76mm)	30ft (9m)	4444-0600-032-120-LTE <input type="checkbox"/>
1	30	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0600-030-UNV-ED10 <input type="checkbox"/>
1	30	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0600-030-UNV-SD10 <input type="checkbox"/>
1-4 1 per channel	100	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	10" x 8" x 4" (254 x 203 x 101mm)	118ft (36m)	4448-0600-100-UNV-SD10 (4 channels) <input type="checkbox"/>

* Wattage requirement for one (1) fixture (Remote fixture only).
** Calculated for 16AWG cable. Contact customer service for longer remote distance.

LASER BLADE XS
DOWNLIGHT

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 14 of 14

Type:

AL08

Page 14 of 14

REMOTE POWER SUPPLY OPTIONS
(TO BE ORDERED SEPARATELY)

For LBXS10 • 19W* • 700mA



Min-max units	Watts	Voltage	Dimming protocol	Dimming range	Connexion box dimensions	Max distance**	Connexion box
1	32	120V	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 4" x 3" (152 x 102 x 76mm)	30ft (9m)	4444-0700-032-120-LTE <input type="checkbox"/>
1	30	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-ED10 <input type="checkbox"/>
1	30	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-SD10 <input type="checkbox"/>
1	38	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-038-UNV-ED10 <input type="checkbox"/>
1-4 1 per channel	100	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	10" x 8" x 4" (254 x 203 x 101mm)	118ft (36m)	4448-0700-100-UNV-SD10 (4 channels) <input type="checkbox"/>

For LBXS15 • 29W* • 700mA

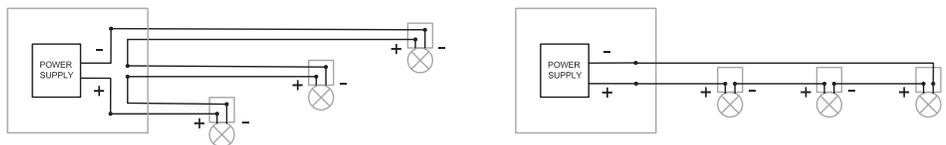


Min-max units	Watts	Voltage	Dimming protocol	Dimming range	Connexion box dimensions	Max distance**	Connexion box
1	40	120V	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	6" x 6" x 3" (152 x 152 x 76mm)	30ft (9m)	4445-0700-040-120-LTE <input type="checkbox"/>
1	37	120-277V	Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black)	Down to ±1%	5" x 4" x 3" (127 x 102 x 76mm)	30ft (9m)	4443-0700-037-UNV-D2 <input type="checkbox"/>
1	30	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-ED10 <input type="checkbox"/>
1	30	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-030-UNV-SD10 <input type="checkbox"/>
1	38	120-277V	0-10V ELDOLED ECOdrive	Down to ±1%	8" x 8" x 4" (203 x 203 x 101mm)	118ft (36m)	4450-0700-038-UNV-ED10 <input type="checkbox"/>
1-3 1 per channel	100	120-277V	0-10V ELDOLED SOLOdrive	Down to ±0.1%	10" x 8" x 4" (254 x 203 x 101mm)	118ft (36m)	4448-0700-100-UNV-SD10 (4 channels) <input type="checkbox"/>

* Wattage requirement for one (1) fixture (Remote fixture only).
** Calculated for 16AWG cable. Contact customer service for longer remote distance.

WIRING DIAGRAMS

*Multiple luminaires must be connected in series (home run or fixture chain)



Manufacturer: iGuzzini : Laser Blade
Description: Recessed Linear Fixture Outdoor Rated

Fixture Wattage: 4 W
Lumen Output: 614 lumen
Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: I.LBX60 REM XX

LASER BLADE 5 REMOTE
InOut

SPECIFICATION SHEET PAGE: 1 OF 6
Project name: _____
Type: _____



Low luminance architectural downlight for inside or outside application.

Luminaire characteristics:
Power input: 10W
Lumens: 580 to 695lm
Luminaire efficacy: 58 to 69 lm/W

Source: White LED, (LM-80 tested),
2700K : 95CRI,
3000K : 90CRI,
4000K : 95 CRI.

Lumen maintenance: 80% of initial lumens at 50 000 hours (L80) LM-79 tested.

Optic: Available with low luminance Wide flood or Spot optics, with Optibeam technology

Mounting: New construction plaster frame or insulated ceiling.

Material:
Body and heat-sink: Die-cast aluminum
Frame: Aluminum alloy
Reflector: Thermoplastic
Baffles: Thermoplastic
Hardware: Stainless steel

Electrical: See remote power supply options on page 5.

Finish: Gray (RAL9006) or White (RAL9010) painted finish.

Weight: 1.76lbs. (0.80kg).

Warranty: 5 year limited warranty.

Certification: cULus listed for wet location.

Ratings: IP65, IK06.

Type:

AL09

Page 1 of 5

Lighting Notes:

1. Contractor to coordinate remote driver quantities in accordance with manufacturer recommendations.
2. Contractor to coordinate remote driver locations in nearest possible location with architect.
3. Fixture finish to be specified by architect.

DUE TO CONTINUOUS IMPROVEMENTS, THE INFORMATION HEREIN MAY BE CHANGED WITHOUT NOTICE.

LAST UPDATE: JANUARY 25, 2018 LP - R2



PRELIMINARY DATA
JANUARY, 2018



9320 Boul. St-Laurent, suite 100, Montréal (Québec) Canada H2N 1N7
P.: 514.523.1339 F.: 514.525.6107 www.iguzzini-na.com

ARUP

Project Number: 271565
Phone: 1 212 896 3000

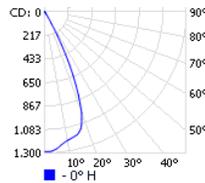
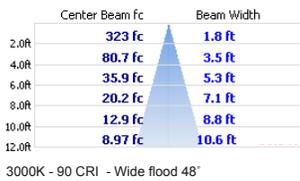
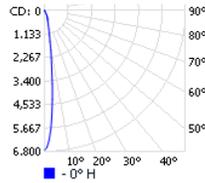
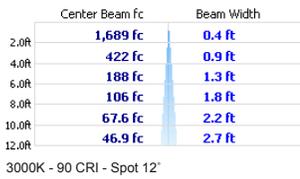
LASER BLADE 5 REMOTE
In/Out

SPECIFICATION SHEET PAGE: 2 OF 5
Project name: _____
Type: _____

Type: **AL09**
Page 2 of 5

TECHNICAL DATA

LOAD (W)	CCT (K)	CRI	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)	MODELS
10W	4000K	95	WIDE FLOOD	695	69	1290	I.BX58
	3000K	90	SPOT	630	63	6755	I.BX59
			WIDE FLOOD	695	69	1290	I.BX60
	2700K	95	SPOT	580	58	6240	I.BX61
			WIDE FLOOD	645	64	1190	I.BX62



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LAST UPDATE: JANUARY 25, 2018 LP - R2



PRELIMINARY DATA
JANUARY, 2018



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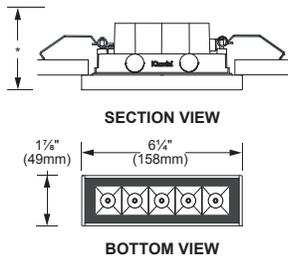
ARUP
Project Number: 271565
Phone: 1 212 896 3000

LASER BLADE 5 REMOTE
In/Out

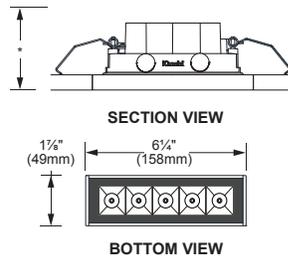
SPECIFICATION SHEET PAGE: 3 OF 5
Project name: _____
Type: _____

Type: **AL09**
Page 3 of 5

Trim



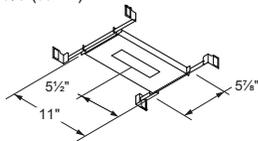
Flush Mount



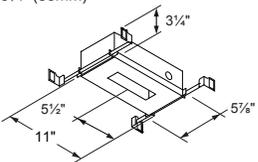
HOUSINGS

Trim version:
Hanger bars: 9" to 15 1/4" (229mm x 387mm)
with extensions: 15" to 24" (381mm x 610mm)

BN5103 - New construction plaster frame suitable for insulated ceilings.
Dimensions: 5 5/8" x 11" (149mm x 279mm)
Clearance: 3/4" (83mm)



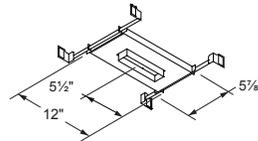
BI5113 - New construction housing suitable for insulated ceilings.
Dimensions: 5 5/8" x 11" x 3/4" (149mm x 279mm x 83mm)
Clearance: 3/4" (83mm)



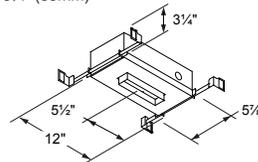
HOUSINGS

Trim version:
Hanger bars: 9" to 15 1/4" (229mm x 387mm)
with extensions: 15" to 24" (381mm x 610mm)

BN5145 - New construction plaster frame suitable for insulated ceilings.
Dimensions: 5 7/8" x 12" (149mm x 305mm)
Clearance: 3/4" (83mm)



BI5145 - New construction housing suitable for insulated ceilings.
Dimensions: 5 7/8" x 12" x 3/4" (149mm x 305mm x 83mm)
Clearance: 3/4" (83mm)



INSTALLATION INFO

Ceiling thickness:
Dimensions: Min: 1/8" (3mm), Max 1" (25mm)

Cut-out dimensions:
Dimensions: 1 1/2" x 5 1/2" (37mm x 141mm)

INSTALLATION INFO FLUSH MOUNT

Ceiling thickness:
Dimension: 5/8" (15mm)

Cut-out dimensions:
Dimensions: 2 1/4" x 6 1/2" (56mm x 164mm)

DUE TO CONTINUOUS IMPROVEMENTS, THE INFORMATION HEREIN MAY BE CHANGED WITHOUT NOTICE.

LAST UPDATE: JANUARY 25, 2018 LP - R2



9320 Boul. St-Laurent, suite 100, Montréal (Québec) Canada H2N 1N7
P.: 514.523.1339 F.: 514.525.6107 www.iguzzini-na.com

ARUP
Project Number: 271565
Phone: 1 212 896 3000

LASER BLADE 5 REMOTE
InOut

SPECIFICATION SHEET PAGE: 4 OF 5
Project name: _____
Type: _____

Type:

AL09

Page 4 of 5

ORDERING INFO RESET

<p>I.BX60 - REM</p> <p style="font-size: small; margin: 0;">MODEL VOLTAGE FINISH</p> <p>MODEL</p> <p><input type="radio"/> I.BX58 - 4000K, 95CRI</p> <p><input type="radio"/> I.BX59 - 3000K, 90CRI</p> <p><input checked="" type="radio"/> I.BX60 - 3000K, 90CRI</p> <p><input type="radio"/> I.BX61 - 2700K, 95CRI</p> <p><input type="radio"/> I.BX62 - 2700K, 95CRI</p>	<p>VOLTAGE</p> <p><input checked="" type="radio"/> REM - Remote</p>	<p>FINISH</p> <p><input type="radio"/> 01 - White/Black</p> <p><input type="radio"/> 10 - Gray/Black</p>	<p>MOUNTING</p> <p>Trim</p> <p><input type="radio"/> BN5103 - New construction plaster frame</p> <p><input type="radio"/> BI5113 - New construction housing</p> <p>Flush mount</p> <p><input type="radio"/> BN5145 - New construction plaster frame</p> <p><input type="radio"/> BI5145 - New construction housing</p>
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P.: 514.523.1339 F.: 514.525.6107 www.iguzzini-na.com

PRELIMINARY DATA
JANUARY, 2018

ARUP

Project Number: 271565
Phone: 1 212 896 3000

LASER BLADE 5 REMOTE
InOut

SPECIFICATION SHEET

PAGE: 5 OF 5

Project name: _____

Type: _____

Type:

AL09

Page 5 of 5

ORDERING INFO

RESET

REMOTE POWER SUPPLY OPTION

Requirement for one (1) fixture: 700mA, 15V

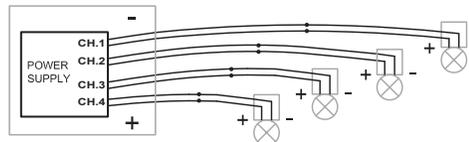
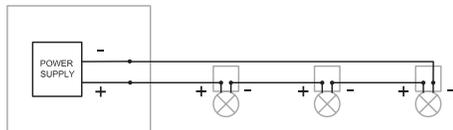
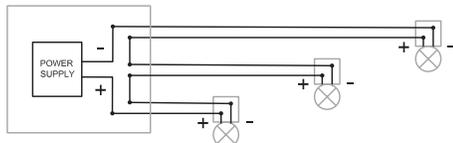
- | | | |
|---|--|--|
| <input type="radio"/> 4444-0700-011-UNV-ND | <input type="radio"/> 4450-0700-014-UNV-D2 | <input type="radio"/> 4450-0700-030-UNV-SD10 |
| <input type="radio"/> 4444-0700-025-UNV-D10 | <input type="radio"/> 4450-0700-030-UNV-ED10 | <input type="radio"/> 4450-0700-050-UNV-SD10 |
| <input type="radio"/> 4444-0700-012-120-LTE | <input type="radio"/> 4450-0700-050-UNV-ED10 | <input type="radio"/> 4448-0700-100-UNV-SD10 |

REMOTE POWER SUPPLY OPTION
(TO BE ORDERED SEPARATELY)

Watts	Min-Max	Voltage	Dimming Range	Dimming protocol	Box dimensions	Max distance at full load (16AWG)	Code
11	1	120-277V	—	None	6" X 4" X 3" (152 X 102 X 76mm)	30ft (9m)	4444-0700-011-UNV-ND
25	1-2	120-277V	Down to ±15%	0-10V	6" X 4" X 3" (152 X 102 X 76mm)	30ft (9m)	4444-0700-025-UNV-D10
12	1	120V	Down to ±15%	Leading and trailing edge (ELV and TRIAC)	6" X 4" X 3" (152 X 102 X 76mm)	30ft (9m)	4444-0700-012-120-LTE
14	1	120-277V	Down to ±5%	Lutron Hi Lume® A-Series (3 wires or EcoSystem®)	8" x 8" x 4" (203x 203 x 102mm)	35ft (10m)	4450-0700-014-UNV-D2
30	1-2	120-277V	Down to ±1%	0-10V ELDOLED ECOdrive	8" x 8" x 4" (203x 203 x 102mm)	118ft (36m)	4450-0700-030-UNV-ED10
50	1-3	120-277V	Down to ±1%	0-10V ELDOLED ECOdrive	8" x 8" x 4" (203x 203 x 102mm)	118ft (36m)	4450-0700-050-UNV-ED10
30	1-2	120-277V	Down to ±0.1%	0-10V ELDOLED SOLOdrive	8" x 8" x 4" (203x 203 x 102mm)	118ft (36m)	4450-0700-030-UNV-SD10
50	1-4 2 channels	120-277V	Down to ±0.1%	0-10V ELDOLED SOLOdrive	8" x 8" x 4" (203x 203 x 102mm)	118ft (36m)	4450-0700-050-UNV-SD10
100	1-8 4 channels	120-277V	Down to ±0.1%	0-10V ELDOLED SOLOdrive	10" x 8" x 4" (254x 203 x 102mm)	118ft (36m)	4448-0700-100-UNV-SD10

WIRING DIAGRAMS

*Multiple luminaires must be connected in series (home run or fixture chain)



DUE TO CONTINUOUS IMPROVEMENTS, THE INFORMATION HEREIN MAY BE CHANGED WITHOUT NOTICE.

LAST UPDATE: JANUARY 25, 2018

LP - R2



PRELIMINARY DATA
JANUARY, 2018



9320 Boul. St-Laurent, suite 100, Montréal (Québec) Canada H2N 1N7
P.: 514.523.1339 F.: 514.525.6107 www.iguzzini-na.com

ARUP

Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: BEGA : 22248
Description: Recessed Wall Light

Fixture Wattage: 2 W
Lumen Output: 159 lumen or lumen/ft
Lamp CRI: 80+
Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: 22248-K3

LED recessed wall - shielded

BEGA

Type:
AW02

Page 1 of 1

Lighting Notes:

1. Fixture finish to be specified by architect.

Application

Designed for low mounting heights for interior and exterior locations, the shielded light distribution is ideal for the glare-free illumination of ground surfaces, building entrances, stairs, and footpaths.

Materials

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

NRTL listed to North American Standards, suitable for wet locations
Protection class IP65
Weight: 2.2 lbs

Electrical

Operating voltage	120-277V AC
Minimum start temperature	-30° C
LED module wattage	3.9 W
System wattage	6.0 W
Controllability	0-10V dimmable
Color rendering index	Ra > 90
Luminaire lumens	159 lumens (3000K)
Lifetime at Ta = 15° C	>500,000 h (L70)
Lifetime at Ta = 45° C	172,000 h (L70)

LED color temperature

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

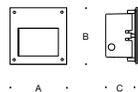
BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

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

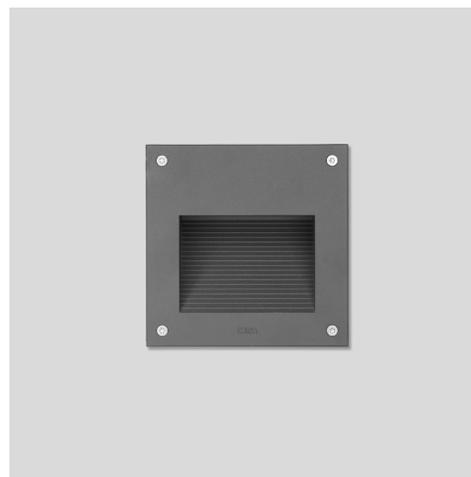
Available colors Black (BLK) White (WHT) RAL:
 Bronze (BRZ) Silver (SLV) CUS:

Type:
BEGA Product:
Project:
Modified:



LED recessed wall · shielded

	LED	A	B	C
22272	ADA 3.9W	5 7/8	5 7/8	4 1/8



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

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com © copyright BEGA 2018 Updated 12/13/19

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Type:

Admin Building

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: iGuzzini : Palco In Out
Description: Surface Mounted Spotlight (Low Voltage)

Fixture Wattage: 9 W
Lumen Output: 653 lumen
Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 24 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: EH97

Palco InOut

Design Artec3 Studio

iGuzzini

Last information update: October 2020

Product configuration: EH97

EH97: Spotlight with base - Warm White Led - integrated electronic control gear - Very Wide Flood optic

Product code

EH97: Spotlight with base - Warm White Led - integrated electronic control gear - Very Wide Flood optic

Technical description

Spotlight designed to use LED lamps and a Very Wide Flood optic. The optical assembly and base is made of EN1706AC 46100LF aluminium alloy and subjected to a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The following painting stage consists of a primer and a liquid acrylic paint, cured at 150°C, with a high level of weather and UV ray resistance. 5 mm thick tempered sodium-calcium closing glass. Double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Mechanical aiming locks for rotation on both the vertical axis and horizontal plane. Complete with a monochrome LED circuit and an Opti Beam Reflector optic system. The product includes a PG13.5 cable gland. Electronic On/Off ballast integrated in product. Option of using optic accessories assembled via an accessory holder frame. All external screws used are made of A2 stainless steel.

Installation

Floor, wall, ceiling or ground-installed via pole or stake.

Colour

White (01) | Grey (15)

Weight (Kg)

1.9

Mounting

wall surface|ground spike

Wiring

Double PG.

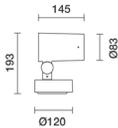
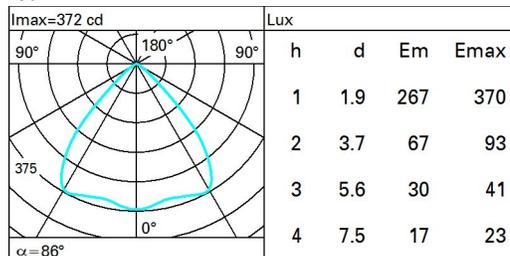
Complies with EN60598-1 and pertinent regulations



Technical data

Im system:	653	Life Time LED 1:	65,000h - L80 - B10 (Ta 25°C)
W system:	10.9	Life Time LED 2:	65,000h - L80 - B10 (Ta 40°C)
Im source:	920	Ballast losses [W]:	1.8
W source:	9.1	Lamp code:	LED
Luminous efficiency (lm/W, 59.9 real value):		Number of lamps for optical 1 assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	71	Ambient operating temperature range:	from -20°C to 50°C.
Beam angle [°]:	86°	Lifetime of product at ambient operating temperature:	≥ 50.000h Ta=40°C
CRI:	80	Power factor:	See installation instructions
Colour temperature [K]:	3000	Overvoltage protection:	2kV Common mode & 1kV Differential mode
MacAdam Step:	2	Control:	On/off

Polar



Type:

AWS02

Page 1 of 2

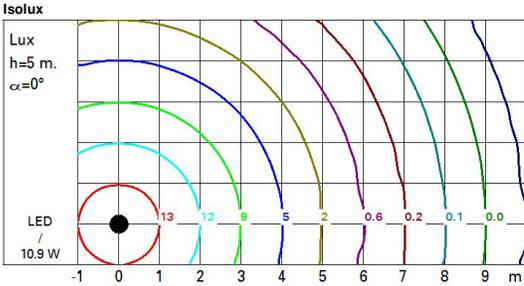
Lighting Notes:

1. Finish to be specified by architect
2. Add alternate: Standard Finish

ARUP

Project Number: 271565
Phone: 1 212 896 3000

EH97_EN 1 / 2



UGR diagram

Corrected UGR values (at 920 lm bare lamp luminous flux)												
Reflect.:		viewed crosswise					viewed endwise					
cell/cav	walls	work pl.	Room dim x	Room dim y								
0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.50	0.30	0.30
0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.30
0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2H	2H	23.9	24.7	24.2	24.9	25.1	23.9	24.7	24.2	24.9	25.1	
	3H	23.8	24.5	24.1	24.7	25.0	23.8	24.5	24.1	24.7	25.0	
	4H	23.7	24.3	24.1	24.6	24.9	23.7	24.4	24.1	24.6	25.0	
	6H	23.6	24.2	24.0	24.5	24.9	23.7	24.2	24.0	24.5	24.9	
	8H	23.6	24.1	24.0	24.5	24.8	23.6	24.2	24.0	24.5	24.8	
	12H	23.6	24.1	23.9	24.4	24.8	23.6	24.1	24.0	24.4	24.8	
4H	2H	23.7	24.4	24.1	24.6	25.0	23.7	24.3	24.1	24.6	24.9	
	3H	23.6	24.1	24.0	24.5	24.8	23.6	24.1	24.0	24.5	24.8	
	4H	23.5	24.0	23.9	24.3	24.7	23.5	24.0	23.9	24.3	24.7	
	6H	23.4	23.8	23.9	24.2	24.7	23.4	23.8	23.9	24.2	24.7	
	8H	23.4	23.8	23.8	24.2	24.6	23.4	23.8	23.8	24.2	24.6	
	12H	23.3	23.7	23.8	24.1	24.6	23.3	23.7	23.8	24.1	24.6	
8H	4H	23.4	23.8	23.8	24.2	24.6	23.4	23.8	23.8	24.2	24.6	
	6H	23.3	23.6	23.8	24.0	24.5	23.3	23.6	23.8	24.0	24.5	
	8H	23.3	23.5	23.7	24.0	24.5	23.3	23.5	23.7	24.0	24.5	
	12H	23.2	23.4	23.7	23.9	24.4	23.2	23.4	23.7	23.9	24.4	
12H	4H	23.3	23.7	23.8	24.1	24.6	23.3	23.7	23.8	24.1	24.6	
	6H	23.3	23.5	23.7	24.0	24.5	23.3	23.5	23.7	24.0	24.5	
	8H	23.2	23.4	23.7	23.9	24.4	23.2	23.4	23.7	23.9	24.4	
Variations with the observer position at spacing:												
S =	1.0H	2.7 / -7.1					2.7 / -7.1					
	1.5H	4.8 / -11.5					4.8 / -11.5					
	2.0H	6.8 / -13.9					6.8 / -13.9					

Type:
AWS02
Page 2 of 2

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: USAI Lighting : 4.5" Round Deep Regress Downlight

Description: Recessed Downlight

Fixture Wattage: 33 W

Lumen Output: 1925 lumen

Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 120 V

Fixture Finish: Galvanized, Clear anodized or custom RAL

Lamp CCT: 3000K

Assembly Code: B4RCF-33C3-30KH-70-S-WH-WH-NC-UNV-D6E



Type:

AD02

Page 1 of 7

BeveLED® 2.2 Complete
4.5" Round Deep Regress Downlight - B4RC

Universal and Field Convertible - Trim | Trimless | Millwork

Trimmed - B4RCF



usailighting.com/beveled

Trimless - B4RCL



Millwork - B4RCM



FEATURES

- Field Flexibility between trimmed, trimless and millwork
- Dry/damp/wet location rated for bathrooms and showers, including trimless and millwork
- 1% dimming standard + more dimming options
- Clear overspray protector for installation convenience
- Full family platform
- Iconic beveled look

COMPANION FAMILY PRODUCTS



Downlight - B4RD
usailighting.com/B4RD

Adjustable - B4RA
usailighting.com/B4RA

Wall Wash - B4RW
usailighting.com/B4RW

Lighting Notes:

1. Contractor to coordinate remote driver quantities in accordance with manufacturer recommendations.
2. Contractor to coordinate remote driver locations in nearest possible location with architect.
3. Fixture finish to be specified by architect.
4. Add alternate: Standard Finish

DEEP REGRESS DOWNLIGHT PERFORMANCE DATA

LED COLOR CHOICES

DELIVERED* PERFORMANCE:	Classic White						Warm Glow Dimming		Color Select	
	9W	12W	16W	24W	33W	36W	16W	32W	16W	32W
Source Lumens:	1150	1300	1725	2400	3025	4150	1275	2150	1250	2075
Lumens Per Watt:	70	69	68	64	58	85	56	47	54	52
Delivered Lumens:	625	825	1100	1550	1925	2950	900	1500	850	1525
EM Mode Output:	450 Delivered Lumens (nominal)						350 Delivered Lumens		375 Delivered Lumens	

*Based on 3000K, 80+ CRI. Performance varies for each specific beamspread and color temperature. See IES files for exact values at usailighting.com.

CORRELATED COLOR TEMPERATURE MULTIPLIER

	Classic White						Warm Glow Dimming			Color Select										
	2200K	2700K	3000K	3500K	4000K		2700K	3000K	3500K	2200K	2700K	3500K	4000K	5000K	6000K					
Color Rendering Index:	80+	80+	90+	80+	90+	80+	90+	80+	90+	80+	80+	80+	80+	80+	80+					
Multiplier for Lumen Output:	0.72	0.94	0.78	1.00	0.78	1.00	1.00	1.06	1.06	0.94	0.74	1.00	0.80	1.07	0.87	0.96	1.04	1.09	1.13	1.18

THE COMPLETE BEVELED FAMILY PLATFORM

More Ceiling Applications

More Sizes and Shapes

Armstrong® Ceiling Solutions Compatible



Page 1

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Revised 06/04/2019

ARUP

Project Number: 271565
Phone: 1 212 896 3000

HOW TO SPECIFY

BeveLED® 2.2 Complete
4.5" Round Deep Regress Downlight - B4RC



Type: **AD02**
Page 2 of 7

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

BeveLED Trim Style	Wattage Options	LED Color Options	Beam Options	Lens Options	Bevel Trim Finish Options	*Flange/Millwork Collar Finish	Housing Options	Voltage Options <i>Select one</i>	Dimming Driver Options	Accessories (Optional)*					
B4RC															
F Trimmed with Flange (use with all materials) L Trimless Spackle-in (use with sheetrock and plaster only) M Millwork Knife-Edge (use with wood and stone)	Classic White Light			S Solite (provided standard) SF Solite Frosted BF Borosilicate Frosted	WH White	WH White	NCSM New Construction Narrow Width NC New Construction NCCP Chicago Plenum NCIC Insulation Contact Rated / Airtight (1)	UNV 120V-277V	For use with Universal Voltage 120V - 277V <i>No Additional Charge</i> D6E EldoLED 0-10V, 1% (provided standard) D6F EldoLED 0-10V, 1% D4A Lutron Hilume Premier ECO, 0.1% (1, 2, 3, 5, 6) D4E Lutron 5 ECO, 5% (2, 3, 4) D4H Lutron H ECO, 1% Fade (2, 3, 4) D4P Lutron Hilume Premier ECO, 1% (1, 5, 6) D6A EldoLED 0-10V, 0.1% D6B EldoLED 0-10V, 0.1% D7 EldoLED DALI, 0.1% D18 Moons DMX, 0.1% (2, 3)	CB27 27" C-Channel Bars CB32 32" C-Channel Bars CB52 52" C-Channel Bars EM Emergency Battery (7) EMW Emergency Battery Wet Location (7) *Residential grade nailer bars provided standard					
	09C3 9W LED 12C3 12W LED 16C3 16W LED 24C3 24W LED 33C3 33W LED 36E1 36W LED	22KS (1) 2200K, 80+ CRI 27KS 2700K, 80+ CRI 27KH 2700K, 90+ CRI 30KS 3000K, 80+ CRI 30KH 3000K, 90+ CRI 35KS 3500K, 80+ CRI 35KH 3500K, 90+ CRI 40KS 4000K, 80+ CRI 40KH 4000K, 90+ CRI	25 25° beam 40 40° beam 70 70° beam												
	Warm Glow Dimming				AB Piano Gloss Black	AB Piano Gloss Black WH White GR Grey BL Black					*Leave blank for Trimless	120V	For use with 120V only <i>No Additional Charge</i> D19 Phase 2-wire, 1% (1, 2, 3, 4, 5) D3 Lutron 2-wire, 1%		
	16WG2 16W LED 32WG2 32W LED	2722KS 2700K-2200K, 80+ CRI 2722KH 2700K-2200K, 90+ CRI 3022KS 3000K-2200K, 80+ CRI 3022KH 3000K-2200K, 90+ CRI 3522KS 3500K-2200K, 80+ CRI	25 25° beam 40 40° beam 65 65° beam												
	Color Select Tunable White				RAL Custom Color Specify RAL #	RAL Custom Color Specify RAL #								347V	For use with 347V only D15 0-10V dim, 1% 347V only (2, 3)
	16CS1 16W LED 32CS1 32W LED	6022KS 6000K-2200K, Tunable White Light 80+ CRI	30 30° beam 40 40° beam 50 50° beam												

Notes: 1 Not available with 36E1LED
2 Not available for Warm Glow
3 Not available for Color Select
4 Not available with 9W
5 Not available with 33W
6 For use with 16W and lower only
7 Not available with 347V. For NC and NCSM housings only. NCSM housing requires above ceiling access.

TRIM FINISH OPTIONS



Custom colors and primer finish also available

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Revised 06/04/2019

ARUP
Project Number: 271565
Phone: 1 212 896 3000

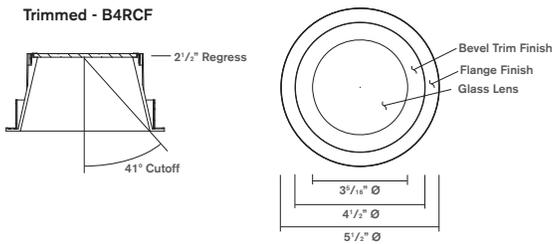
BeveLED® 2.2 Complete
4.5" Round Deep Regress Downlight - B4RC



Type: **AD02**
Page 3 of 7

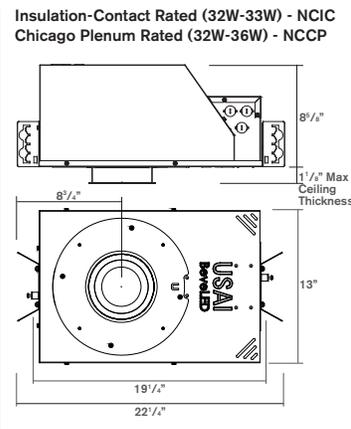
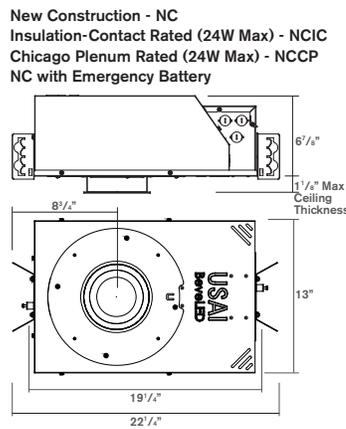
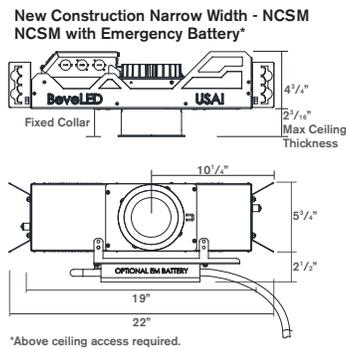
Trimmed - B4RCF

TRIM DETAILS



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

HOUSING OPTIONS



BeveLED® 2.2 Complete
4.5" Round Deep Regress Downlight - B4RC

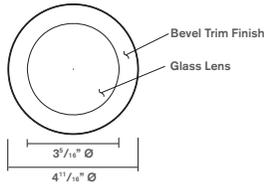
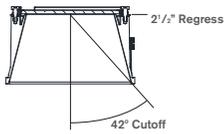


Type:
AD02
Page 4 of 7

Trimless - B4RCL

TRIM DETAILS

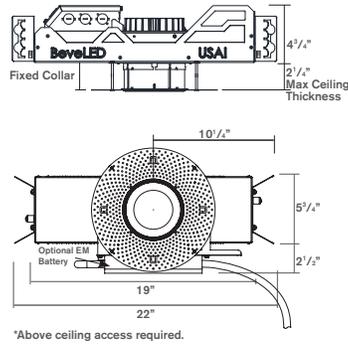
Trimless - B4RCL



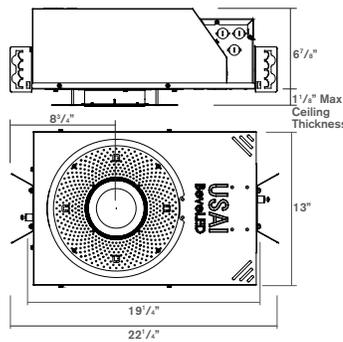
Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

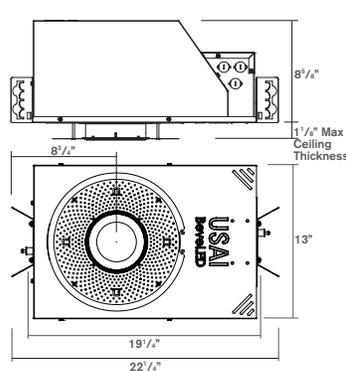
New Construction Narrow Width - NCSM
NCSM with Emergency Battery*



New Construction - NC
Insulation-Contact Rated (24W Max) - NCIC
Chicago Plenum Rated (24W Max) - NCCP
NC with Emergency Battery



Insulation-Contact Rated (32W-33W) - NCIC
Chicago Plenum Rated (32W-36W) - NCCP



BeveLED® 2.2 Complete
4.5" Round Deep Regress Downlight - B4RC

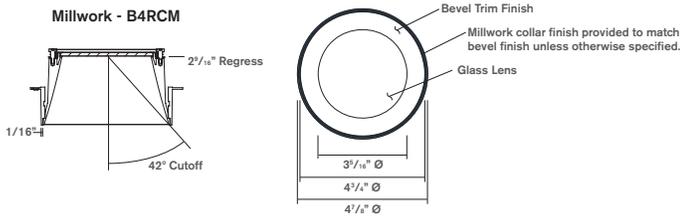


Type: **AD02**
Page 5 of 7

Millwork - B4RCM

TRIM DETAILS

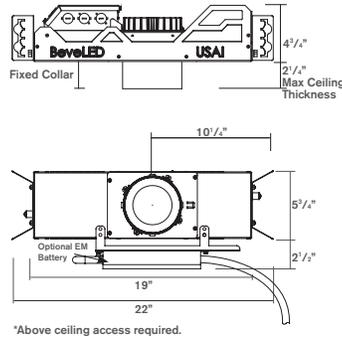
Millwork - B4RCM



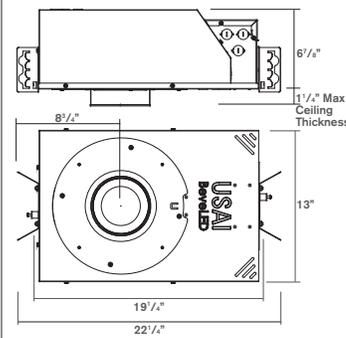
Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

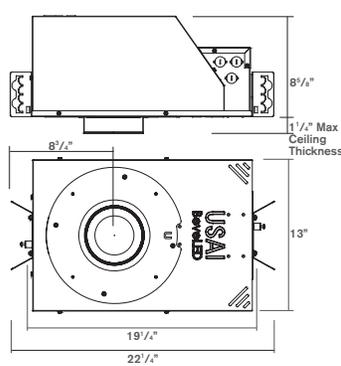
**New Construction Narrow Width - NCSM
NCSM with Emergency Battery***



**New Construction - NC
Insulation-Contact Rated (24W Max) - NCIC
Chicago Plenum Rated (24W Max) - NCCP
NC with Emergency Battery**



**Insulation-Contact Rated (32W-33W) - NCIC
Chicago Plenum Rated (32W-36W) - NCCP**



Page 5

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Revised 06/04/2019

ARUP
Project Number: 271565
Phone: 1 212 896 3000



Type:

AD02

Page 6 of 7

BeveLED® 2.2 Complete 4.5" Round Deep Regress Downlight - B4RC

BEVELED 2.2 SPECIFICATIONS

FIELD REPLACEABLE LED LIGHT ENGINE

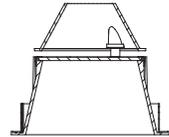
is serviceable through the aperture without tools or with a Philips screwdriver. All USAI Lighting light engines feature industry-leading color consistency.

FIELD REPLACEABLE DRIVER

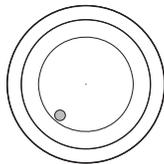
Unless otherwise specified, a 0-10V, 100%-1% solid state electronic constant current integral D6E dimming driver with a high power factor is provided standard and sources 2mA. All integral dimming drivers are located within the fixture housing and are serviceable from below the ceiling through the aperture.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

EMERGENCY BATTERY

IOTA emergency battery provides backup power for 90 minutes. NC EM fixtures are provided with an integral emergency battery with integral test switch and can be serviced through the aperture from below the ceiling plane. NCSM EM fixtures are provided with an integral emergency battery with a remote test switch, which comes with a 24" lead length for location of the test switch. Remote test switch is dry/damp only; select EMW emergency option for a wet location-rated EM test switch. NCSM EM fixtures require above ceiling access for service of the EM pack. Fixtures that have no USAI EM option may be connected to an inverter (by others) for emergency lighting. Battery is not available with 347V.



Integral Emergency Test Switch included with NC housing



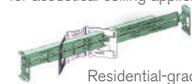
Remote Emergency Test Switch included with NCSM housing (above ceiling access required).

HOUSING

All BeveLED 2.2 fixtures are field-flexible which allows for field changes from trimless to trimmed or millwork with a simple components change with parts from USAI. Housings are fabricated of 20 ga. steel construction with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring, except for NCSM which is fabricated of 18 ga. steel. NCIC housing for use with 9W, 12W, and 16W light engines only are rated for direct contact with spray foam insulation of R-42 or less.

MOUNTING

B4RCF overlap flange fixtures are designed for use in sheetrock, acoustical ceiling tile, and many other ceiling materials. B4RCL trimless fixtures are provided with a spackle collar and are designed for use in sheetrock/mud-in ceiling applications. B4RCM millwork fixtures are provided with a millwork collar in finish to match trim finish specified and are designed for use in wood/millwork, stone and tile construction applications. Butterfly brackets and residential grade adjustable nailer bars extendible from 14" to 24" centers with integral nails are provided standard for attachment to building structure. C-channel bars are optionally available for acoustical ceiling applications.



Residential-grade nailer bars provided standard.

FIXTURE WEIGHT

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

WARRANTY

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

CEILING CUT OUT

B4RCF Trimmed Overlap Flange: 5-1/16" Ø

B4RCL Trimless Spackle-in: 5-1/2" Ø

B4RCM Millwork Knife-edge: 4-15 /16" Ø

LISTINGS

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



NOTES

- Use of pressure washer voids warranty

PHOTOMETRICS

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

Page 6

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Revised 06/04/2019

ARUP

Project Number: 271565
Phone: 1 212 896 3000



Type:

AD02

Page 7 of 7

BeveLED® 2.2 Complete 4.5" Round Deep Regress Downlight - B4RC

LED COLOR OPTIONS

Classic White Light

Our proprietary LED light engines achieve a 2-step MacAdam ellipse along the black body locus, resulting in reliable and uniform color from fixture to fixture. You'll see the results in consistently beautiful light throughout your space, whichever USAI LED product you specify.



Warm Glow® Dimming

Warm Glow Dimming provides warmth and glow once possible only in dimmed incandescent sources. Utilizing our patented proprietary algorithm and circuitry, Warm Glow Dimming technologies precisely mimic the black body curve of a standard 100W A19 lamp by gradually transitioning from 2700K, 3000K or 3500K down to 2200K. The result is virtually indistinguishable from an incandescent light source.



Color Select® Tunable White

Color Select represents the next innovation in color temperature control for advanced LED recessed downlighting. Color Select® products allow users to adjust color temperature from 6000K down to 2200K while independently adjusting intensity to achieve ultimate control over the quality of light in a space with a single fixture type. Color Select interfaces with standard dimming and control systems.



Page 7

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Revised 06/04/2019

ARUP
Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: iGuzzini : Adjustable Spot Light**Description:** Adjustable LED Spot Light**Fixture Wattage:** 28 W**Lumen Output:** 2060 lumen**Lamp CRI:** 90+**Lighting Controls:** 0-10V Dimming**Voltage:** 120 V**Fixture Finish:** Galvanized, Clear anodized or custom RAL**Lamp CCT:** 3000K**Assembly Code:** I.PLC S-930-WF-120-X-X**PALCO SMALL**
LEDType: _____ SPECIFICATION SHEET
Project: _____ Page: 1 of 4

Palco, a veritable family of projectors, considers the work exhibited not only as a physical element, but also its content, the feelings and the message that it is communicating, without forgetting about the space and its contribution to the work. Its shape is inspired by the brush, the main tool used by the artist in the creative process.

Luminaire characteristic:

Power input: 7.5 or 29W
Lumens: from 235 to 2010lm (for 3000K, 90CRI)
Luminaire efficacy: Up to 69lm/W

Source: White LED (LM-80 tested)
 3000K : 90CRI,
 4000K : 80CRI.

Lumen maintenance: 80% of initial lumens at 50 000 hours (L80).

Optic: Super Spot, Spot, Medium, Flood, Wide Flood or Wall Washer optics.

Material: Optical body and arm: Die-cast aluminum
 Accessory holder ring and driver housing: thermoplastic
 Reflector: formed aluminum (all optics except Super Spot)
 Lens: methacrylate (only for Super Spot optic)
 Protective screen: glass.

Mounting: Track adaptor with circuit selector for two circuit tracks. Also, compatible with TEK or HTEK from Nordic Aluminum.

Electrical: Integral high efficiency driver 120 / 277V

Dimming: Leading (Triac) and trailing edge (ELV) for 120V only.

Finish: White RAL9010, Black.

Weight: STANDARD: 2.8lbs (1.3kg)
 WALL WASHER: 3.2lbs (1.4kg)

Warranty: 5 year limited warranty.

Ratings: IP20

Certification:  cULus listed for dry location.

Type:**AH01**

Page 1 of 4

Lighting Notes:

1. Finish to be specified by architect
2. Add alternate: Standard Finish
3. Provide 10% of fixtures with a hex louver

ARUPProject Number: 271565
Phone: 1 212 896 3000

PALCO
SMALL LED

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 2 of 4

Type:

AH01

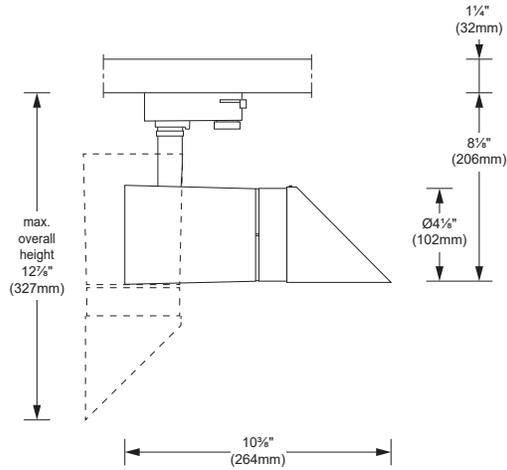
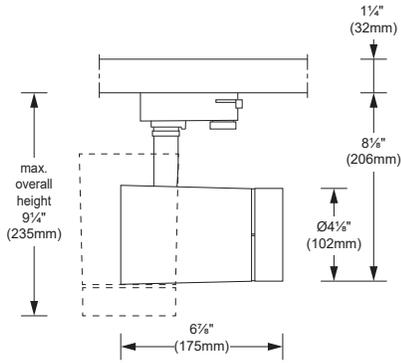
Page 2 of 4

DIMENSION

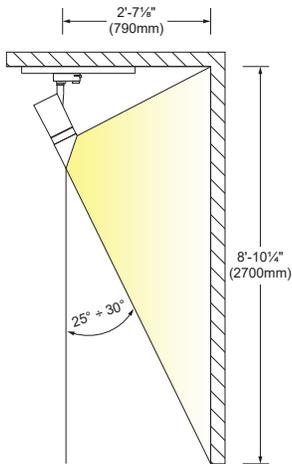
STANDARD

Super Spot, Spot, Medium, Flood and Wide Flood optics

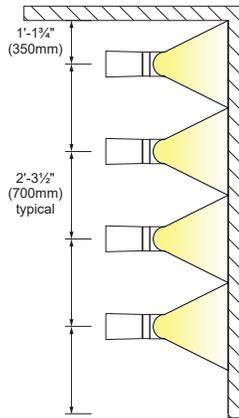
WALL WASHER



WALL WASHER SUGGESTED SPACING AND WALL DISTANCE



SIDE VIEW



TOP VIEW

JP - R7 Last update: February 28, 2020

Due to continuous improvements, the information herein may be changed without notice



9320 Boul. St-Laurent, suite 100, Montréal (Québec) Canada H2N 1N7, P.: 514.523.1339 F.: 514.525.6107 www.iguzzini-na.com

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Project Number: 271565
Phone: 1 212 896 3000

PALCO
SMALL LED

Type: _____ SPECIFICATION SHEET
Project : _____ Page: 3 of 4

Type:

AH01

Page 3 of 4

PHOTOMETRIC DATA

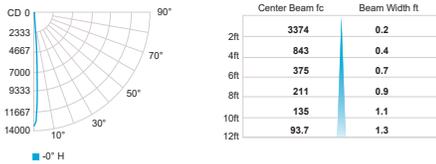
Visit iguzzini.com/us for complete photometric data.

CCT (K)	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)
3000K	90	7.5W	Super Spot ⁽¹⁾	235	31	13 495
		29W	Spot	1960	68	20 965
			Medium	1955	67	11 300
			Flood	1895	65	5 285
			Wide Flood	2010	69	3 830
			Wall Washer	1010	35	1 555

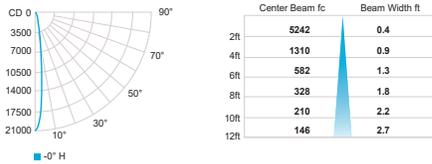
*Use multiplier table for other cct and cri output data
⁽¹⁾Not applicable for Super Spot model

CCT options	4000K
CRI options	80CRI
Multiplier	1.13

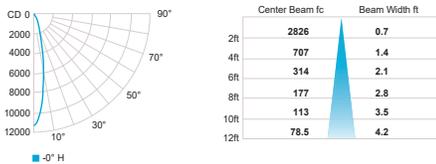
Super Spot 6° (7.5W - 3000K - 90 CRI)



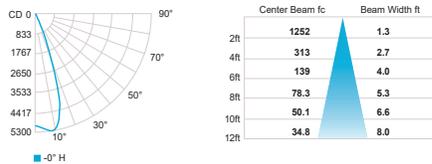
Spot 12° (29W - 3000K - 90 CRI)



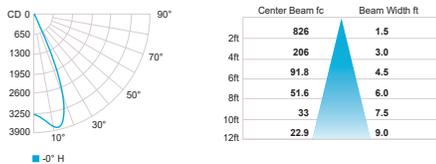
Medium 20° (29W - 3000K - 90 CRI)



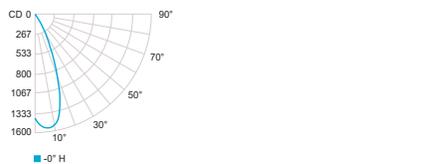
Flood 38° (29W - 3000K - 90 CRI)



Wide Flood 46° (29W - 3000K - 90 CRI)



Wall Washer (29W - 3000K - 90 CRI)



JP - R7 Last update: February 28, 2020

Due to continuous improvements, the information herein may be changed without notice



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Project Number: 271565
Phone: 1 212 896 3000

PALCO
SMALL LED

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 4 of 4

Type:

AH01

Page 4 of 4

ORDERING INFO

I.PLC S - - - - -
FIXTURE

RESET

MODEL

I.PLC S - Small

LED

840 - 4000K, 80 CRI **930** - 3000K, 90 CRI

OPTIC

SS - Super Spot⁽¹⁾ **SP** - Spot **MD** - Medium **FL** - Flood
 WF - Wide Flood **WW** - Wall Washer

VOLTAGE

120 - 120V **277** - 277V

FINISH

01 - White **02** - Black

DIMMING

LTE - Leading and Trailing edge dimming (120V only)

⁽¹⁾ Only available with 3000K, 90CRI LED (**930**)

ACCESSORIES (TO BE ORDERED SEPARATELY)
for installation consult the instruction sheet

INTERCHANGEABLE REFLECTORS

I.MXW5-12 - Spot **I.MXW6-12** - Medium **I.MXW7-12** - Flood **I.MXW8-12** - Wide Flood 

LENS (Maximum 1 per fixture)

I.MXD8-24 - Soft focus lens  **I.MXB7-24** - Medium elliptical lens 
 I.MXC0-24 - Large elliptical lens **I.MY34-24** - Opti beam elliptical lens⁽¹⁾

OPTICAL ACCESSORIES

I.MXF0-02 - Louvre (black)⁽²⁾  **I.MXF3-01** - Antiglare screen (white)⁽³⁾  **I.MXF6-02** - Directional flaps (black) 
 I.MY90-02 - Opti beam louvre (black) **I.MXF3-02** - Antiglare screen (black)⁽³⁾ 

⁽¹⁾ Only available for Super Spot (SS).

⁽²⁾ Must be used with I.MXD8 lens.

⁽³⁾ Only available for Super Spot (SS) and Spot (SP) optics and I.MXD8 must be used with Spot (SP) optic assembly.

Manufacturer: LITHONIA LIGHTING : ZL1N
Description: Suspended Striplight

Fixture Wattage: 48 W
Lumen Output: 5642 lumen
Lamp CRI: 90+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Galvanized
Lamp CCT: 3000K
Assembly Code: ZL1N-L96-SMR-6000LM-SBL FST-120-30K-90CRI



FEATURES & SPECIFICATIONS

INTENDED USE — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T5 and T8 lengths. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, cove and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)**

CONSTRUCTION — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install row aligner included for continuous row mounting.

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

OPTICS — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare. L/LENS option available.

ELECTRICAL — L70>60,000hours. Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR... ordering information on page 3.) Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), **multi-volt input and 0-10V dimming standard.** This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

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

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

INSTALLATION — Tool-less channel cover for easy installation.

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

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -40°F (-40°C) and 86°F (30°C).

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

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

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

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

Specifications subject to change without notice.

Catalog Number
Notes
Type



LED Striplight

ZL1N

24", 48" and 96" Lengths



Type:
AL02w

Page 1 of 6

Lighting Notes:

1. Mounting detail to be coordinated with Architect

A+ Capable Luminaire

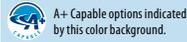
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

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

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

*See ordering tree for details

ZL1N LED Striplight



ORDERING INFORMATION

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

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

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

Color temperature	Color rendering index	Options	Paint finish
30K 3000 K	80CRI 80 CRI	PLR___ Plug-in wiring ^{5,6}	WH White
35K 3500 K	90CRI 90 CRI	PLR1LVG Plug-in wiring-low voltage ^{5,6}	GALV Galvanized
40K 4000 K		E7W Emergency battery pack, 7W CA Title 20 Noncompliant ⁷	MB Matte black
50K 5000 K		2E7W Two Emergency battery packs, 7W CA Title 20 Noncompliant ^{7,8}	SKGY Smoke gray
		E10WLCP Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		2E10WLCP Two Emergency battery packs, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		E15WLCP Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS ⁹	
		OUTEND Cord set to exit endplate of fixture	
		Wireless Controls⁵	
		NLTAIR2 RLSXR10 nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°	
		NLTAIR2 RLSXR10EM nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°, UL924 Emergency operation ⁹	
		Individual Controls⁵	
		LBOZU 360° low mount motion sensor, pre-wired ¹⁰	
		LBHOSZU 360° low mount motion sensor with dimming, pre-wired ¹⁰	
		LBPZU 360° low mount motion sensor with photocell, pre-wired ¹⁰	
		LBMOSZU 360° low mount motion sensor, dimming & switching photocell, pre-wired ¹⁰	
		Cord sets:¹¹	
		CS1W Straight plug, 120V	
		CS3W Twist-lock, 120V	
		CS7W Straight plug, 277V	
		CS11W Twist-lock, 277V	
		CS25W Twist-lock, 347V	
		CS97W Twist-lock, 480V	
		CS93W 600V SEOOOW white cord, no plug (no voltage required)	

Accessories: Order as separate catalog number.			
HC36	Hanger chain, 36"	ZLR L24 SYM WH	24" symmetric reflector, white finish
ZACVH	Aircraft cable 10' (one pair)	ZLR L46 SYM UPL WH	46" symmetric reflector with uplight, white finish
ZLANGBKT	Luma-tilt™ angle bracket for shelf or ledge mounting only	ZLR L46 SYM WH	46" symmetric reflector, white finish
SQ_	Stem kit, 2" increments up to 48"	ZLR L48 ASY WH	48" asymmetric reflector, white finish
NPP16D	nLight® switching/dimming module	ZLR L48 SYM UPL WH	48" symmetric reflector with uplight, white finish
rPP20D	nLight® Air switching/dimming module	ZLR L48 SYM WH	48" symmetric reflector, white finish
LSXR	Sensor Switch™ LSXR occupancy sensor ⁴	ZLR L92 SYM UPL WH	92" symmetric reflector with uplight, white finish
ZSPRG	For 15/16" T-grid only	ZLR L92 SYM WH	92" symmetric reflector, white finish
WGZ24	24" wireguard, white ¹²	ZLR L96 SYM UPL WH	96" symmetric reflector with uplight, white finish
WGZ48	48" wireguard, white ^{12,13}	ZLR L96 SYM WH	96" symmetric reflector, white finish
ZLR L24 SYM UPL WH	24" symmetric reflector with uplight, white finish	UNIVERSAL REFL ALIGNER	Universal reflector aligners, quantity 1

Notes

- Not available with 347V, 480V or Batteries
- Optional. Reflectors ship separately.
- See Operational Data on page 2 for actual lumens.
- Utilizes step down transformer.
- See ordering information on pages 4 and 5 and [LSXR specification sheet](#) for more configurations. When choosing Sensor and PLR for same fixture, consult the factory.
- Not available with cord sets.
- MVOLT only. Not available with cord sets with plugs. Battery Spec sheet linked for more information.
- Only available with 10,000LM and 14,000LM packages.
- MVOLT only.
- Available with MVOLT, 347V and 480V only. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). See page 6 for low temperature option providing -4°F (-20°C) minimum ambient. Sensors come prewired, they must be snapped into place at time of installation.
- Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W).
- Not compatible with reflector
- Order 2 for tandem double length fixtures (TZL1N).

Type:

AL02w

Page 2 of 6

ZL1N LED Striplight

Type:
AL02w

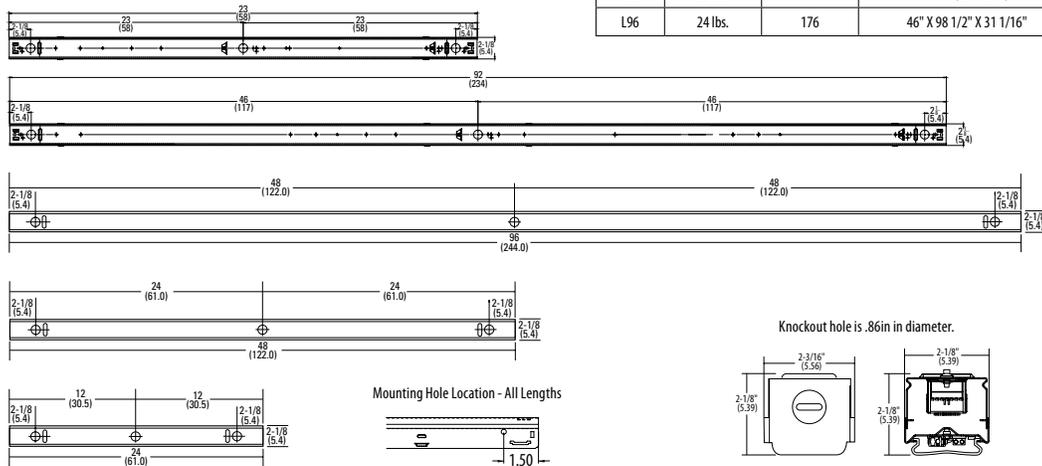
Page 3 of 6

OPERATIONAL DATA												
	Nominal lumen package	Length (inches)	Delivered Lumens 3000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 3500 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 4000 K CCT @ 77°F (25°C) ambient temperature		Delivered Lumens 5000 K CCT @ 77°F (25°C) ambient temperature		Wattage @ 120V/277V	Comparable Light Source
			80 CRI	90 CRI								
Lensed	1500LM	24	1738	1409	1777	1467	1804	1494	1871	1528	15	1-lamp 17W T8
	2500LM	24	2265	1846	2315	1900	2351	1947	2438	1991	19	1-lamp 17W T8
	3500LM	24	3586	2924	3666	3026	3723	3084	3860	3152	31	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	3000LM	46 or 48	3172	2586	3243	2677	3293	2728	3415	2788	25	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	5000LM	46 or 48	4417	3601	4515	3727	4585	3798	4754	3882	34	2-lamp 32W T8, 1-lamp 54W TSHO, 70W HID
	7000LM	46 or 48	6535	5328	6681	5515	6785	5619	7035	5744	52	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	6000LM	92 or 96	6561	5349	6708	5537	6812	5642	7063	5767	48	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	10000LM	92 or 96	8687	7082	8881	7331	9019	7470	9351	7636	68	4-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
Unlensed	14000LM	92 or 96	12457	10513	12735	10665	12933	10711	13409	10949	104	4-lamp 32W T8, 3-lamp 54W TSHO, 150W HID
	1500LM	24	1881	1534	1923	1588	1953	1618	2025	1654	15	1-lamp 17W T8
	2500LM	24	2452	1999	2506	2069	2545	2108	2639	2155	19	1-lamp 17W T8
	3500LM	24	3882	3165	3969	3276	4031	3338	4179	3412	31	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	3000LM	46 or 48	3434	2800	3511	2898	3565	2953	3697	3019	25	1-lamp 32W T8, 1-lamp 54W TSHO, 50W HID
	5000LM	46 or 48	4781	3898	4888	4035	4964	4111	5147	4203	34	2-lamp 32W T8, 1-lamp 54W TSHO, 70W HID
	7000LM	46 or 48	7075	5768	7233	5971	7345	6083	7616	6219	52	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID
	6000LM	92 or 96	7103	5791	7261	5995	7374	6108	7646	6243	48	3-lamp 32W T8, 2-lamp 54W TSHO, 100W HID

DIMENSIONS

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

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



PHOTOMETRICS

Please see www.lithonia.com

INDUSTRIAL

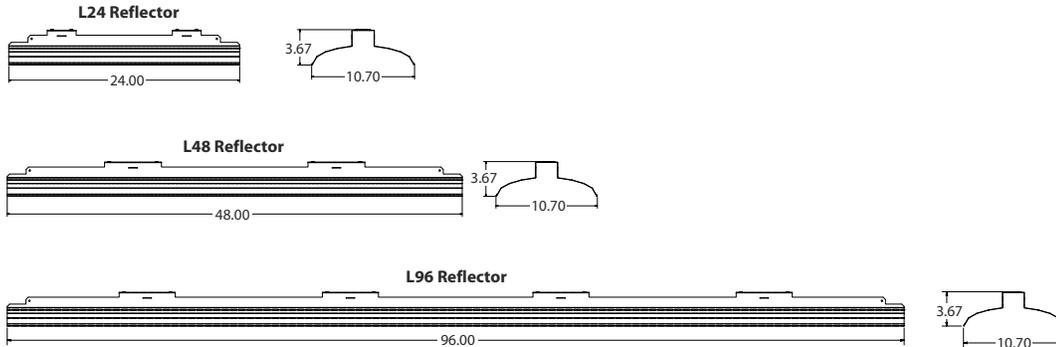
ZL1N
Page 3 of 6

ARUP
Project Number: 271565
Phone: 1 212 896 3000

ZL1N LED Striplight

Type:
AL02w
Page 4 of 6

REFLECTORS (Optional)



PHOTOMETRICS

Please see www.lithonia.com

PRODUCT INFORMATION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. 1, 2, 3 and 4-lamp fixtures. PLR22 (2-circuit) and crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Note: Specifications subject to change without notice.



Wiring

PLR

Advanced 1 or 2-Circuit Plug-In

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

Series	Number of hot wires	Branch circuits	Dimming	Ground	
PLR	(blank) Not required for 22	Circuits to which ballast is connected	LV Low-voltage dimming	G Ground, required	
PLR22	1 Black	(blank) Not required for 22 or PLR1			(blank) No emergency circuit
	2 Black and red	A Black wire			ELA Emergency circuit wired to black wire
		B Red wire	ELB Emergency circuit wired to red wire		

Typical Applications

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

ZL1N LED Striplight

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

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

LSXR configuration	Comparable CMRB sensor	Old style sensor nomenclature
For shortest lead times use one of the following LSXR configurations		
LCOZU	CMRB 50	MSI
LCHOSZU	CMRB 50 D	MSID
LCPZU	CMRB 50 P	MSIPED
LAOZU	CMRB 6	MSI360
LAHOSZU	CMRB 6 D	MSI360D
LAPZU	CMRB 6 P	MSI360PED

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

SINGLE RELAY

Example: LAHOSZU

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

Notes

- 1 Max and min dim levels not applicable with this option.
- 2 Ambient temperature rating of -4°F (-20°C) to 131°F (55°C).

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

Example: LA2KZU

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

Notes

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

Example: LENS 50 J100

Replacement lenses: Order as separate catalog number.		
Series	Lens type	Package quantity
LENS	6 High mount 360°	(blank) Single Lens
	10 Low mount 360°	J10 10-pack
	50 High mount aisleway	J100 100-pack

Type:
AL02w

Page 5 of 6

ZL1N LED Striplight

OPTIONS AND ACCESSORIES

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



HANGER CHAIN
36" chain with Y hanger.

Order as:
HC36



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

Order as:
ZSPRG



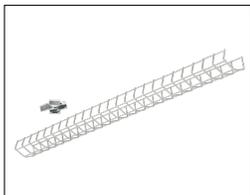
ZACVH HANGER
10' Aircraft cable with Y hanger.

Order as:
ZACVH



ANGLE MOUNTING BRACKET
Luma-tilt™ angle bracket ships as a pair

Order as:
ZLANGBKT



WIRE GUARD

Order as:
WG24
WG48

Type:
AL02w

Page 6 of 6

Manufacturer: LEDLinear : Xooline
Description: Linear Cove Light

Fixture Wattage: 7.6 W/ft
Lumen Output: 886 lumen/ft
Lamp CRI: 80+
Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Standard
Lamp CCT: 3000K
Assembly Code: HYD-HD25-W8-30-XX-300-AMC-IP40

XOOLINE Static White/Tunable White/RGB



24 V compact linear indoor LED luminaire offering modularity and ease of installation. Extruded and anodized aluminum housing profile with male/female connectors fed on the luminaire's sides and diffuse screwed end caps for a perfect fixture to fixture light overlap. Allows the use of 11 high quality optics. Clear, semi-opal or opal lenses for soft light settings and linear flat lenses from 10° for wall grazing or 30° and 60° for wide flood illumination with precise light control. Light source assembled using Reel to Reel (R2R) production process supporting LED Linear™ TJ Away® thin flexible circuit board technology. Outstanding lifetime of >60,000 hrs L80/B10 and >30,000 hrs for RGB. Embeds high quality Japanese LEDs with 3 step MacAdams (SDCM3) binning centered on target CCT (One Bin Only) with an extended photometric code of Wxxx/339 ensuring an exceptional color consistency over the rated lifetime. Premium color rendition with a CRI of 95 and TM-30-15 up to $R_a = 91 / R_g = 100$. Consistent light intensity all along the luminaire length. Fully dimmable. Engineered and produced in Germany.

Project name _____
Fixture type _____ Phase _____
Specifier _____ Date _____

- OS Quick Shipping Item** - Indicated 69h order codes
- Integrated Circuit Driver** - Up to 152 lm/ft, 140 lm/ft constant light output
- Reel-to-Reel R2R Production** - High Quality Solder Free Reels
- 24 hr** - Select Models Only
- Intertek ETL Listed**
- TJaway Thermal Management** - Exceptional Thermal Dissipation
- One Bin Only** - 3 MacAdams up to 180/B10/40,000 hrs / 96/8/30,000 hrs
- L/B Lifetime** - 6 Digit Photometric Code Wxxx/339
- IES LM79/LM80 Compliant**

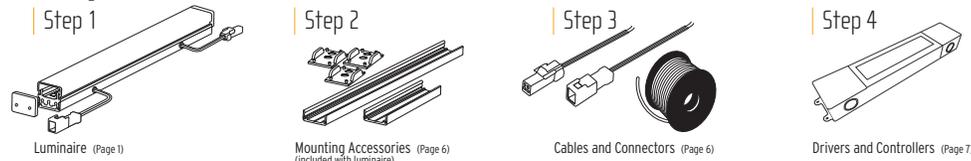
Type: **AL04**

Page 1 of 7

Lighting Notes:

1. Refer to architectural drawings for fixture length.

Ordering Process



Luminaire Order Code

Family	Model	Lumen package*	Color rendering	Color temperature	Custom length***	Optic/Diffusion	Mounting	Ingress
XOOLINE	HYD - Static White	LD05-136 lm/ft	W8-85CRI	20-2000K	L _{min} : 380 mm (1'3")	100 10° Linear Flat Lens	MP Mounting Profile 0°	IP00 Without Optic
		LD10-340 lm/ft CS	W9-95CRI**	22-2200K	L _{max} : 4005 mm (16'7")	300 30° Linear Flat Lens	CL0 Mounting Clip 0°	
		LD15-545 lm/ft CS		25-2500K	Increment LD:	600 60° Linear Flat Lens	CL15 Mounting Clip 15°	
		LD25-886 lm/ft		27-2700K	125 mm (4-15/16")	OR Round Opal Lens ¹	CL30 Mounting Clip 30°	
		LD40-1159 lm/ft		30-3000K	Increment HD:	DR Round Semi-Opal Lens	CL45 Mounting Clip 45°	
				35-3500K	62.5 mm (2-7/16")	CR Round Clear Lens	PCL Plastic Clip 0°	
			40-4000K		OL Low Square Opal Lens	AMC Adjustable Clip	IP40 With Optic	
			50-5000K		DL Low Square Semi-Opal Lens			
					CL Low Square Clear Lens			
					OH High Square Opal Lens ¹			
					DH High Square Semi-Opal Lens			
					NC Without Lens			
IQW ATON - Tunable White (2200K - 4000K)	HD12-299 lm/ft		-	-				
	HD24-616 lm/ft CS		-	-				
	HD42-1095 lm/ft		-	-				
RGB - 622nm (R) 532nm (G) 466nm (B)	LD15-195 lm/ft		-	-				
	HD20-250 lm/ft CS		-	-				

* Lumen Values represent 3000K (W930) and with clear lens. ** Only available for LD05, HD06 and HD10. *** Custom Length should be specified in millimeters (mm). See page 4 and 5 for all available lengths.
¹ Dot-free

Color temperature	CCT	Low LED Density - Visible Pixellation					High LED Density - Less or No Pixellation				
		LD5 (0.5 W/ft) ^a	LD10 (1.0 W/ft) ^a	LD15 (1.5 W/ft) ^a	LD25 (2.5 W/ft) ^a	LD40 (4.0 W/ft) ^a	HD6 (0.5 W/ft) ^a	HD10 (1.0 W/ft) ^a	HD15 (1.5 W/ft) ^a	HD25 (2.5 W/ft) ^a	HD36 (4.0 W/ft) ^a
● W820	2,000 K	115	231	371	603	-	139	231	371	603	883
● W822	2,200 K	133	264	423	691	-	157	264	423	691	1,008
● W825	2,500 K	151	304	484	788	1,026	182	304	484	788	1,151
● W827/W927	2,700 K	136	322	514	837	1,084	161	270	514	837	1,221
● W830/W930	3,000 K	136	340	545	886	1,151	164	276	545	886	1,297
● W835/W935	3,500 K	142	359	572	932	1,224	170	282	572	932	1,361
● W840/W940	4,000 K	145	365	584	953	1,255	173	292	584	953	1,392
● W850	5,000 K	200	398	639	1,041	1,258	240	398	639	1,041	1,523

^a The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.
^b Measured with clear lens. Light output is reduced by 40% with opal and 25% with semi-opal lens options. The IP protection level is reduced from IP40 to IP00 without lens option (NC).

ARUP
Project Number: 271565
Phone: 1 212 896 3000

XOOLINE Static White/Tunable White/RGB



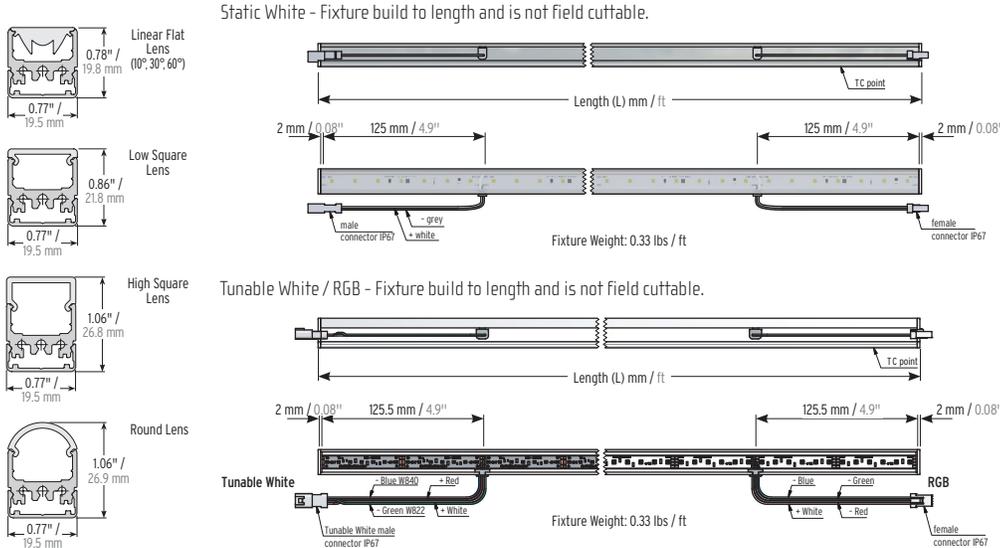
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Type:

AL04

Page 2 of 7

Mechanical Details



Technical Details

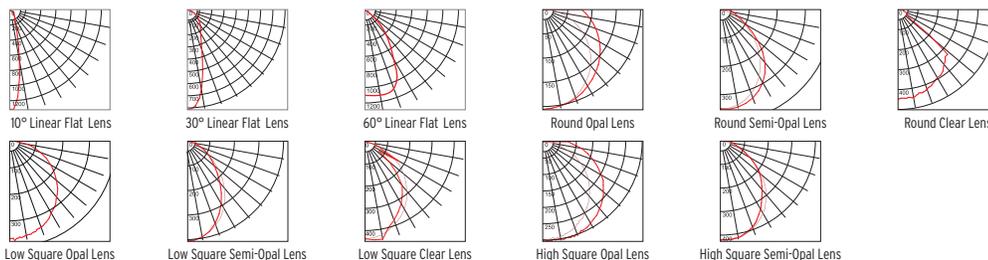
	Static White	Tunable White	RGB
Voltage	24 Volt (23 V _{min} , 25 V _{max})	24 Volt (23 V _{min} , 25 V _{max})	24 Volt (23 V _{min} , 25 V _{max})
Case temperature ⁴	T _{Cmin} = -13°F, T _{Cmax} = specific, see Table below	T _{Cmin} = -13°F, T _{Cmax} = specific, see Table below	T _{Cmin} = -13°F, T _{Cmax} = specific, see Table below
Storage temperature	T _{Smin} = -22°F, T _{Smax} = 185°F	T _{Smin} = -22°F, T _{Smax} = 185°F	T _{Smin} = -22°F, T _{Smax} = 185°F
Ambient temperature	T _{Amin} = -13°F, T _{Amax} = specific, see Table below	T _{Amin} = -13°F, T _{Amax} = specific, see Table below	T _{Amin} = -13°F, T _{Amax} = specific, see Table below

⁴ The position of the Tc-point is marked on each step of the LED strip. The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

	Static White						Tunable White						RGB			
	LD5	LD10	LD15	LD25	LD40	HD6	HD10	HD15	HD25	HD36	HD12	HD24	HD42	LD15	HD20	
Power (W/ft) ⁵	1.5	3.1	4.6	7.6	12.2	1.8	3.1	4.6	7.6	11	3.7	7.3	12.8	4.6	6.7	
Efficacy (lm / W) ⁵ @ W850	132	131	140	137	103	132	131	140	137	139	82	84	85	43	44	
Max serial run length (ft / m)	24.6 / 7.5	16.4 / 5	13.1 / 4	9.8 / 3	6.6 / 2	16.4 / 5	16.4 / 5	13.1 / 4	9.8 / 3	6.6 / 2	16.4 / 5	13.1 / 4	6.6 / 2	13.1 / 4	13.1 / 4	
CRI / R9 @ 3000 K	up to 95 / up to 65											85 / 20	85 / 20	85 / 20	-	-
Temperature Tc-point (T _{Cmax}) ⁵	158°F	158°F	158°F	167°F	185°F	158°F	158°F	158°F	167°F	185°F	158°F	158°F	176°F	158°F	158°F	
Max ambient temperature (T _{Amax})	122°F	122°F	104°F	104°F	95°F	122°F	122°F	122°F	113°F	95°F	122°F	104°F	95°F	113°F	113°F	

⁵ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

Light Distribution



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XOOLINE Static White/Tunable White/RGB



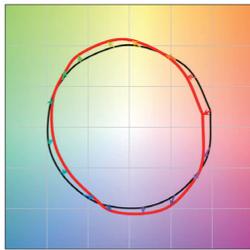
Type: **AL04**

Page 3 of 7

Colorimetric Details

Photometric Code	CCT	CRI	R9	R _f	R _g
W830/339	3000 K	85	23	82	99

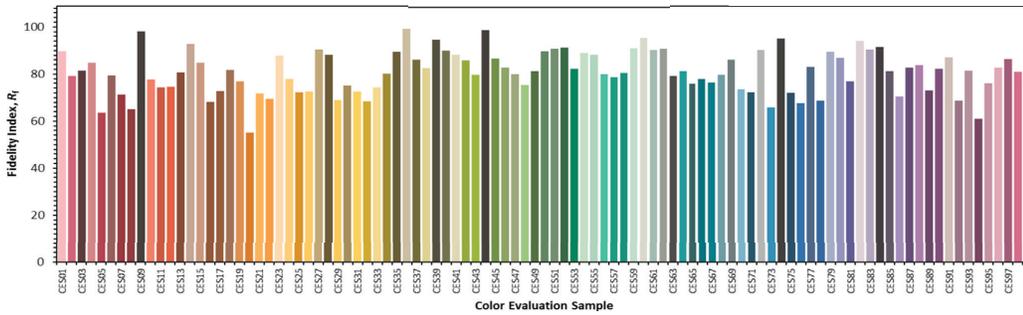
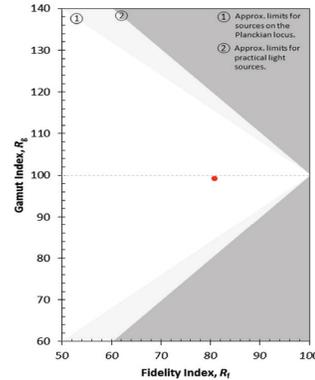
Color Vector Graphic



Color Distortion Graphic



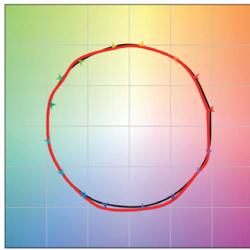
Reference Illuminant
Test Source



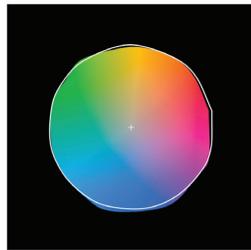
Colorimetric Details

Photometric Code	CCT	CRI	R9	R _f	R _g
W930/339	3000 K	96	70	91	101

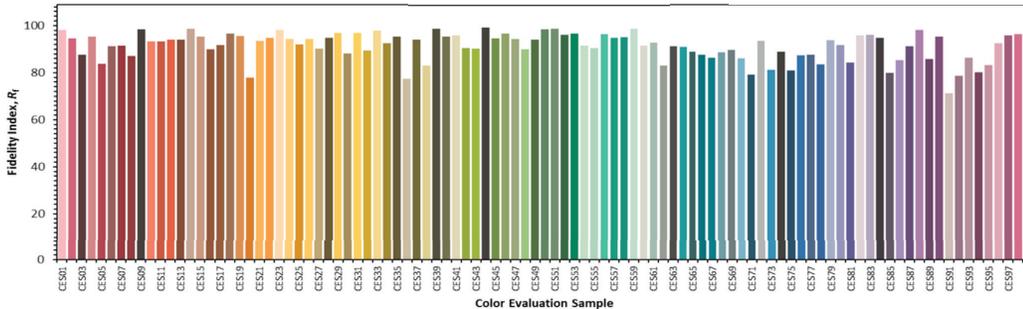
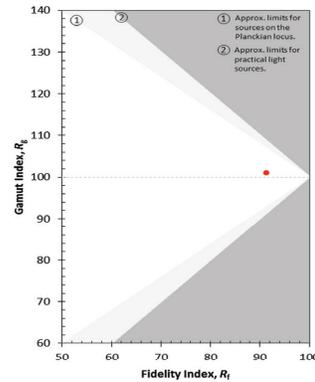
Color Vector Graphic



Color Distortion Graphic



Reference Illuminant
Test Source



XOOLINE Static White/Tunable White/RGB



Type:

AL04

Page 4 of 7

LENGTH CHART - Xooline LD

Standard Length		Static White										RGB	
		LD5 1.5 Watts/Ft		LD10 3.0 Watts/Ft		LD15 4.6 Watts/Ft		LD25 7.6 Watts/Ft		LD40 12.2 Watts/Ft		LD15 4.6 Watts/Ft	
inches	mm	Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture
15.0	380	2	170	4	424	6	679	9	1104	15	1435	6	243
19.9	505	2	225	5	563	8	903	13	1468	20	1907	8	323
24.8	630	3	281	6	703	10	1126	16	1831	25	2378	10	403
29.7	755	4	337	7	842	11	1350	19	2194	30	2850	11	483
34.7	880	4	393	9	981	13	1573	22	2557	35	3322	13	563
39.6	1005	5	448	10	1121	15	1797	25	2921	40	3794	15	643
44.5	1130	6	504	11	1260	17	2020	28	3284	45	4266	17	723
49.4	1255	6	560	12	1400	19	2243	31	3647	50	4738	19	803
54.3	1380	7	616	14	1539	21	2467	34	4010	55	5210	21	883
59.3	1505	7	671	15	1678	23	2690	38	4374	60	5682	23	963
64.2	1630	8	727	16	1818	25	2914	41	4737	65	6154	25	1043
69.1	1755	9	783	17	1957	26	3137	44	5100	70	6626	26	1122
74.0	1880	9	839	18	2097	28	3361	47	5463	75	7098	28	1202
78.9	2005	10	894	20	2236	30	3584	50	5827	80	7569	30	1282
83.9	2130	10	950	21	2375	32	3808	53	6190	-	-	32	1362
88.8	2255	11	1006	22	2515	34	4031	56	6553	-	-	34	1442
93.7	2380	12	1062	23	2654	36	4254	59	6916	-	-	36	1522

Oversize Length		Static White										RGB	
		LD5 1.5 Watts/Ft		LD10 3.0 Watts/Ft		LD15 4.6 Watts/Ft		LD25 7.6 Watts/Ft		LD40 12.2 Watts/Ft		LD15 4.6 Watts/Ft	
inches	mm	Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture
98.6	2505	12	1117	25	2794	38	4478	62	7280	-	-	38	1602
103.5	2630	13	1173	26	2933	40	4701	66	7643	-	-	40	1682
108.5	2755	14	1229	27	3072	42	4925	69	8006	-	-	42	1762
113.4	2880	14	1285	28	3212	43	5148	72	8370	-	-	43	1842
118.3	3005	15	1340	30	3351	45	5372	75	8733	-	-	45	1922
123.2	3130	15	1396	31	3491	47	5595	-	-	-	-	47	2002
128.2	3255	16	1452	32	3630	49	5819	-	-	-	-	49	2082
133.1	3380	17	1508	33	3769	51	6042	-	-	-	-	51	2162
138.0	3505	17	1564	34	3909	53	6266	-	-	-	-	53	2242
142.9	3630	18	1619	36	4048	55	6489	-	-	-	-	55	2322
147.8	3755	18	1675	37	4188	57	6712	-	-	-	-	57	2402
152.8	3880	19	1731	38	4327	59	6936	-	-	-	-	59	2482
157.7	4005	20	1787	39	4466	60	7159	-	-	-	-	60	2562

XOOLINE HD- Continued on next page

XOOLINE Static White/Tunable White/RGB



Type: **AL04**
Page 5 of 7

LENGTH CHART - Xooline HD

Standard Length		Static White										Tunable White				RGB			
		HD6		HD10		HD15		HD25		HD36		HD12		HD24		HD4		HD20	
inches	mm	Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture								
15.0	380	2	204	4	344	6	679	9	1104	14	1617	5	373	9	768	16	1365	7	312
17.4	443	3	238	4	401	7	791	11	1286	16	1882	5	434	11	894	19	1589	9	363
19.9	505	3	272	5	457	8	903	13	1468	18	2148	6	495	12	1020	21	1814	10	414
22.3	568	3	305	6	514	9	1014	14	1649	20	2414	7	557	14	1147	24	2038	11	465
24.8	630	4	339	6	570	10	1126	16	1831	23	2680	8	618	15	1273	26	2263	12	517
27.3	693	4	373	7	627	10	1238	17	2012	25	2946	8	679	17	1399	29	2487	14	568
29.7	755	4	406	7	683	11	1350	19	2194	27	3212	9	740	18	1525	32	2712	15	619
32.2	818	5	440	8	740	12	1461	20	2376	29	3478	10	802	20	1652	34	2936	16	670
34.7	880	5	473	9	797	13	1573	22	2557	32	3744	11	863	21	1778	37	3161	17	722
37.1	943	6	507	9	853	14	1685	23	2739	34	4010	11	924	23	1904	40	3385	19	773
39.6	1005	6	541	10	910	15	1797	25	2921	36	4275	12	986	24	2031	42	3610	20	824
42.0	1068	6	574	11	966	16	1908	27	3102	39	4541	13	1047	26	2157	45	3834	21	875
44.5	1130	7	608	11	1023	17	2020	28	3284	41	4807	14	1108	27	2283	47	4059	22	927
47.0	1193	7	641	12	1080	18	2132	30	3466	43	5073	14	1170	29	2409	50	4283	23	978
49.4	1255	7	675	12	1136	19	2243	31	3647	45	5339	15	1231	30	2536	53	4507	25	1029
51.9	1318	8	709	13	1193	20	2355	33	3829	48	5605	16	1292	32	2662	55	4732	26	1080
54.3	1380	8	742	14	1249	21	2467	34	4010	50	5871	17	1353	33	2788	58	4956	27	1132
56.8	1443	9	776	14	1306	22	2579	36	4192	52	6137	18	1415	35	2915	61	5181	28	1183
59.3	1505	9	810	15	1362	23	2690	38	4374	54	6403	18	1476	36	3041	63	5405	30	1234
61.7	1568	9	843	15	1419	24	2802	39	4555	57	6668	19	1537	38	3167	66	5630	31	1285
64.2	1630	10	877	16	1476	25	2914	41	4737	59	6934	20	1599	39	3293	68	5854	32	1337
66.6	1693	10	910	17	1532	26	3026	42	4919	61	7200	21	1660	41	3420	71	6079	33	1388
69.1	1755	10	944	17	1589	26	3137	44	5100	63	7466	21	1721	42	3546	74	6303	35	1439
71.6	1818	11	978	18	1645	27	3249	45	5282	66	7732	22	1782	44	3672	76	6528	36	1490
74.0	1880	11	1011	18	1702	28	3361	47	5463	68	7998	23	1844	45	3799	79	6752	37	1542
76.5	1943	11	1045	19	1759	29	3472	48	5645	70	8264	24	1905	47	3925	82	6977	38	1593
78.9	2005	12	1079	20	1815	30	3584	50	5827	72	8530	24	1966	48	4051	84	7201	39	1644
81.4	2068	12	1112	20	1872	31	3696	52	6008	-	-	25	2028	50	4177	-	-	41	1695
83.9	2130	13	1146	21	1928	32	3808	53	6190	-	-	26	2089	51	4304	-	-	42	1747
86.3	2193	13	1179	22	1985	33	3919	55	6372	-	-	27	2150	52	4430	-	-	43	1798
88.8	2255	13	1213	22	2041	34	4031	56	6553	-	-	27	2212	54	4556	-	-	44	1849
91.2	2318	14	1247	23	2098	35	4143	58	6735	-	-	28	2273	55	4682	-	-	46	1900
93.7	2380	14	1280	23	2155	36	4254	59	6916	-	-	29	2334	57	4809	-	-	47	1952

Oversize Length		HD6		HD10		HD15		HD25		HD36		HD12		HD24		HD4		HD20	
		Watts/fixture	Lumens/fixture @3000K	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture	Watts/fixture	Lumens/fixture								
96.2	2443	14	1314	24	2211	37	4366	61	7098	-	-	30	2395	58	4935	-	-	48	2003
98.6	2505	15	1347	25	2268	38	4478	62	7280	-	-	30	2457	60	5061	-	-	49	2054
101.1	2568	15	1381	25	2324	39	4590	64	7461	-	-	31	2518	61	5188	-	-	51	2105
103.5	2630	16	1415	26	2381	40	4701	66	7643	-	-	32	2579	63	5314	-	-	52	2157
106.0	2693	16	1448	26	2437	41	4813	67	7825	-	-	33	2641	64	5440	-	-	53	2208
108.5	2755	16	1482	27	2494	42	4925	69	8006	-	-	33	2702	66	5566	-	-	54	2259
110.9	2818	17	1516	28	2551	43	5037	70	8188	-	-	34	2763	67	5693	-	-	55	2310
113.4	2880	17	1549	28	2607	43	5148	72	8370	-	-	35	2824	69	5819	-	-	57	2362
115.9	2943	17	1583	29	2664	44	5260	73	8551	-	-	36	2886	70	5945	-	-	58	2413
118.3	3005	18	1616	30	2720	45	5372	75	8733	-	-	36	2947	72	6072	-	-	59	2464
120.8	3068	18	1650	30	2777	46	5483	-	-	-	-	37	3008	-	-	-	-	60	2515
123.2	3130	18	1684	31	2834	47	5595	-	-	-	-	38	3070	-	-	-	-	62	2567
125.7	3193	19	1717	31	2890	48	5707	-	-	-	-	39	3131	-	-	-	-	63	2618
128.2	3255	19	1751	32	2947	49	5819	-	-	-	-	40	3192	-	-	-	-	64	2669
130.6	3318	20	1785	33	3003	50	5930	-	-	-	-	40	3254	-	-	-	-	65	2720
133.1	3380	20	1818	33	3060	51	6042	-	-	-	-	41	3315	-	-	-	-	67	2772
135.5	3443	20	1852	34	3116	52	6154	-	-	-	-	42	3376	-	-	-	-	68	2823
138.0	3505	21	1885	34	3173	53	6266	-	-	-	-	43	3437	-	-	-	-	69	2874
140.5	3568	21	1919	35	3230	54	6377	-	-	-	-	43	3499	-	-	-	-	70	2925
142.9	3630	21	1953	36	3286	55	6489	-	-	-	-	44	3560	-	-	-	-	71	2977
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147.8	3755	22	2020	37	3399	57	6712	-	-	-	-	46	3683	-	-	-	-	74	3079
150.3	3818	23	2054	38	3456	58	6824	-	-	-	-	46	3744	-	-	-	-	75	3130
152.8	3880	23	2087	38	3512	59	6936	-	-	-	-	47	3805	-	-	-	-	76	3182
155.2	3943	23	2121	39	3569	59	7048	-	-	-	-	48	3866	-	-	-	-	78	3233
157.7	4005	24	2154	39	3626	60	7159	-	-	-	-	49	3928	-	-	-	-	79	3284

XOOLINE Static White/Tunable White/RGB



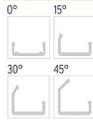
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Type:

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Page 6 of 7

Mounting Accessories - (Included in the luminaire order)

Item	Description	Dimensions (L x W x H)	Order Type
	Aluminum Mounting Profile Continuous aluminum surface mounting profile. 6.5 ft long.	6-1/2" x 3/4" x 1/4"	MP
	Aluminum Mounting Clip Aluminum surface mounting clip, recommended to use every 20 inches. Available in four different angles. 3.5 inches long.	3-1/2" x 3/4" x 1/4" 3-1/2" x 3/4" x 1/2" 3-1/2" x 3/4" x 3/4" 3-1/2" x 3/4" x 7/8"	CLO CL15 CL30 CL45
	Plastic Mounting Clip White plastic surface mounting clip. Required for vertical mounting of the fixture. Recommended to use every 20 inches. Cannot be used together with the aluminum mounting profile.	3/4" x 1-1/4" x 1/4"	PCL
	Adjustable Clip Use to adjust and fix the angle of fixture. 180° adjusting range. Delivered as a pair with screws included.	1/8" x 3/4"	AMC

Cables and Connectors

Item	Description	Model	Dimensions	Order Code
	Cable IP68 for Static White Outdoor rated UL approved cable. Use to extend installation distance with outdoor rated splicing box (by others).	Static White	2 x 22 AWG, 160 ft	14000030
	Mini Female Connector IP67 for Static White Use to run cable from the driver to the first fixture of the run or to the next fixture. Female mini connector on one side and open end cable on the other side.	Static White Static White	2 x 22 AWG, 8 in 2 x 22 AWG, 6.5 ft	15000141 15000142
	Mini Male Connector IP67 for Static White Use to run cable from the fixture to the driver or to the previous fixture. Male mini connector on one side and open end cable on the other side.	Static White	2 x 22 AWG, 8 in	15000140
	Mini Extension IP67 for Static White Use to extend the distance between connection points. Female connector on one side and male connector on the other side.	Static White Static White	2 x 22 AWG, 4 in 2 x 22 AWG, 6.5 ft	15000143 15000144
	Cable IP68 for RGB and Tunable White Outdoor rated UL approved cable. Use to extend installation distance with outdoor rated splicing box (by others).	RGB/Tunable White RGB/Tunable White	4 x 23 AWG, 160 ft 4 x 18 AWG, 160 ft	14000048 14000060
	Mini Female Connector IP67 for RGB and Tunable White Use to run cable from the driver to the first fixture of the run or to the next fixture. Female mini connector on one side and open end cable on the other side.	RGB Tunable White RGB/Tunable White	4 x 23 AWG, 8 in 4 x 23 AWG, 8 in 4 x 23 AWG, 6.5 ft	15000201 15000241 15000202
	Mini Male Connector IP67 for RGB and Tunable White Use to run cable from the fixture to the driver or to the previous fixture. Male mini connector on one side and open end cable on the other side.	RGB Tunable White	4 x 23 AWG, 8 in 4 x 23 AWG, 8 in	15000200 15000240
	Mini Extension IP67 for RGB and Tunable White Use to extend the distance between connection points. Female connector on one side and male connector on the other side.	Static White Static White	4 x 23 AWG, 4 in 4 x 23 AWG, 6.5 ft	15000203 15000204

ARUP

Project Number: 271565
Phone: 1 212 896 3000

XOOLINE Static White/Tunable White/RGB



Type:

AL04

Page 7 of 7

Drivers

Item	Specifications	Downloads
LED LINEAR™ Non-Dimmable Drivers 	<ul style="list-style-type: none"> UL 8750 Listed Enclosure - With Built-In Junction Boxes Universal Input Voltage 120V - 277V IP65 - For Both Indoor and Outdoor Use No Minimum Load Requirement 24V Constant Voltage Output, Class 2 Available in three wattages 30W, 60W and 96W Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8" 	30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
LED LINEAR™ 0-10V Dimmable Drivers 	<ul style="list-style-type: none"> UL 8750 Listed Enclosure - With Built-In Junction Boxes 0-10V Dimmable - Flicker Free Down to 1% Universal Input Voltage 120V - 277V IP65 - For Both Indoor and Outdoor Use 24V Constant Voltage Output, Class 2, Class P Available in three wattages 30W, 60W and 96W Max. Dimensions: 12-1/8" x 2-3/8" x 1-3/8" 	30 W SPEC SHEET 60 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
LED LINEAR™ ELV/Triac Dimmable Drivers 	<ul style="list-style-type: none"> UL 8750 Listed Class 2 Enclosure 24V constant voltage output Compact size yet high efficiency and performance in dry and damp environments (IP67) Multiple Inputs: 120V or 277V Fully dimmable: ELV Dimmers - Reverse or Adaptive Phase Control, Trailing Edge Available in two wattages 48W and 96W Multiple Circuits are available up to 4 units (up to 384W) 	48 W SPEC SHEET 96 W SPEC SHEET INSTALLATION INSTRUCTIONS
 MEAN WELL PWM Dimmable Drivers 	<ul style="list-style-type: none"> Universal AC input / Full range (up to 305VAC) Constant voltage PWM style output Built-in 3 in 1 dimming function (0-10Vdc or PWM signal or resistance) Dimming range : 0-100% Class 2 power unit Suitable for dry / damp / wet locations UL Recognized component, 5 years warranty 	48 W SPEC SHEET 60 W SPEC SHEET 90 W SPEC SHEET INSTALLATION INSTRUCTIONS
 LUTRON Dimmable Drivers 	<ul style="list-style-type: none"> UL Listed Enclosure Dimming Range: 100% to 1% and 0.1% (Premiere) LED lighting turns on to any dimmed level without flashing to full brightness Operating Voltage: 120V~ to 277V~ at 50/60 Hz Rated lifetime of 50,000 hours at 40°C (104°F) ambient temperature and maximum loading For rated warranty, ambient temperature not to exceed 40°C (104°F) Open-circuit protected output 	HI-LUME SPEC SHEET HI-LUME PREMIERE SPEC SHEET INSTALLATION INSTRUCTIONS
eldoLED DALI/DMX Dimmable Drivers 	<ul style="list-style-type: none"> Available in linear or rectangular format 100W, DMX/DALI interface for Static White, Tunable White and RGB/W Applications 4 control channels 24V constant voltage, 4 x 24V outputs Metal or plastic case options 	100 W SPEC SHEET INSTALLATION INSTRUCTIONS

Controllers

Item	Specifications	Downloads
eldoLED Controllers 	180/D DMX Controller for RGB/W and Tunable White Applications	180/D SPEC SHEET
	210/D Dali Controller for Static White Applications	210/D SPEC SHEET
	211/D-LG 0-10V Logarithmic Dimming Controller	211/D-LG SPEC SHEET
	211/D-LN 0-10V Linear Dimming Controller	211/D-LN SPEC SHEET
	212/D DMX Controller for Static White and Static Color Applications	212/D SPEC SHEET
	DimWheel DMX Wall Controller for RGB/W and Tunable White Applications	DIM WHEEL SPEC SHEET

Click for more information

[PRODUCT BROCHURE](#)

[INSTALLATION](#)

[IES FILES](#)

[DRIVERS & CONTROLS](#)

[LED LINEAR TECHNOLOGY](#)

[QUICK SHIPPING](#)

[VOLTAGE DROP CALCULATOR](#)

ARUP

Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: Coronet : LS3 LED
Description: Surface Mounted Linear

Fixture Wattage: 10 W/ft
Lumen Output: 770 lumen/ft
Lamp CRI: 80+

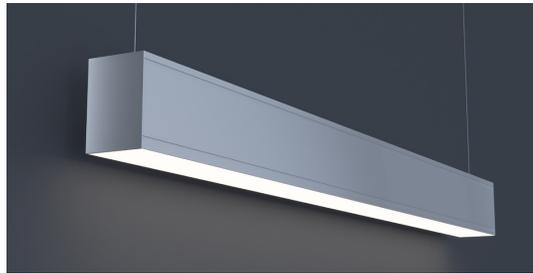
Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: LS3 LED X 3000/90 LTG3 UNV DB X AC SD X EM120V



LS3 LED

DATE	PROJECT	FIRM	TYPE
------	---------	------	------



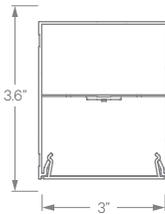
Linear, architectural luminaire. For use in indoor applications where an LED luminaire providing continuous light is required. Suspended, surface or wall mounted installation. For custom mounting consult factory.

FEATURES

- Available In Made To Measure Lengths Accurate Up To 1/16"
- Patterns Available (See Page 2)
- Damp Location Rated
- CRI 90+ Standard; R9>50
- 5 Year, 50,000 Hour Fixture Warranty
- 2700K, 3000K, 3500K, 4000K & 5000K Color Temperatures Available
- Available with PoE

APPLICATIONS	Offices, Lobbies, Retail Stores, Classrooms, Reception Areas & Corridors		
CONSTRUCTION	Extruded Aluminum Housing with Die Cast Ends. Formed Steel Gear Tray	OPTICS	Extruded High Transmission Satin Acrylic Lens with No LED Imaging. Additional Optics Available
WARRANTY	5 Year Limited Warranty (Covers Standard Components)	FINISH	Standard Powder-Coated White. Custom RAL Colors Available
FIXTURE RATINGS & CERTIFICATIONS	Union Made Made In The USA ETL Listed Damp Location	DLC Listed* <small>*Not all outputs listed, consult factory</small>	DRIVERS & SENSORS For Wiring Diagrams and Sensor Information Click Here
ELECTRICAL	Integral Driver with 0-10V Dimming Standard. Several Driver Options Available		

EXTRUSION DIMENSIONS



LED SYSTEM INFORMATION

	Nominal System Watts	Nominal Delivered Lumens	Nominal Efficacy
Standard (LTG1)	7.25 W/ft	560 lm/ft	80 LPW
Low (LTG2)	5 W/ft	405 lm/ft	80 LPW
High (LTG3)	10 W/ft	770 lm/ft	78 LPW

Based on a 3500K luminaire using one driver. Custom outputs available; specify below.

ORDERING



1 - FIXTURE ID LS3 LED	2 - LENGTH 2 - 2 ft 4 - 4 ft 8 - 8 ft X"-X" - Specify Length PAT - Pattern <small>(Consult Factory)</small>	3 - COLOR TEMP 27 - 2700K/90 CRI 30 - 3000K/90 CRI 35 - 3500K/90 CRI 40 - 4000K/90 CRI 50 - 5000K/90 CRI TW - Tunable White RGBW** - RGB + 3000K <small>*Must use DMX or TW10 Driver **Must use DMX Driver</small>	4 - LED SYSTEM LTG1 - Standard LTG2 - Low LTG3 - High LTGC - Custom Output	5 - VOLTAGE UNV - Universal <small>(120/277V)</small>	6 - DRIVER DB - Standard Dimming (0-10V) DB1% - 1% Dimming (0-10V) DB.1% - 0.1% Dimming (0-10V) LTEA - Lutron 2-wire 1% Dimming (120V only) LDE1 - Lutron Digital EcoSystem LDES - 5 Series EcoSystem; 5% Dimming JAB - JAB Compliant 1% Dimming (0-10V) PoE - Power over Ethernet. Consult Factory for Compatibility DMX - For Color Tuning and RGBW (Remote) TW10 - Dual Channel, 0-10V For Color Tuning (CCT and Intensity Control)
7 - FINISH W - White (Standard) BLK* - Black CC* - Custom Color <small>(provide RAL number**)</small> CWF* - Custom Wood Finish <small>(provide color**)</small> <small>*White cord and canopy provided. Must specify for other requests. **See here for finish options</small>	8 - MOUNTING AC - Air Craft Cable (50") SM - Surface Mount WM - Wall Mount <small>*For Perimeter Mount see LSR3 spec sheet.</small>	9 - OPTICS SD - Standard Diffuser POL - 1" Drop Below Pop Out Lens ASYM - Asymmetric Optic WW - Wall Wash Reflector	10 - CONTROL (Optional) EIS - Enlighted Sensor WISD - Wattstopper Daylight Sensor WISM - Wattstopper Occupancy Sensor SLS - SensiLUM Sensor ACS - Acuity Controls nLight System CCS - Casambi Compatible ECS - Eaton WaveLinX System <small>*For other control systems not listed consult factory.</small>	11 - CIRCUITS EM 120V - Emergency Pack EM 277V - Emergency Pack EMCKT - Emergency Circuit	

Type: **AL05**
Page 1 of 2

Lighting Notes:

1. Refer to architectural drawings for fixture length.
2. Finish to be specified by architect.
3. Add alternate: Standard Finish

Coronet

LS3 LED

Type:

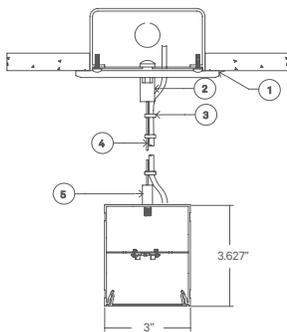
AL05

Page 2 of 2

DATE	PROJECT	FIRM	TYPE
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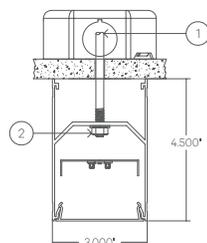
MOUNTING OPTIONS

AC - Air Craft Cable (50')



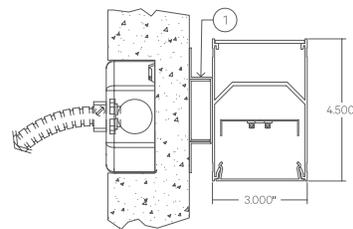
- 1 - 5" Round Canopy (Standard White Finish)
- 2 - Canopy Retainer
- 3 - SJT Cord (Standard White)
- 4 - Air Craft Cable
- 5 - Gripper

SM - Surface Mount



- 1 - Threaded Rod (not supplied)
- 2 - 1/4-20 Nut (not supplied)

WM - Wall Mount



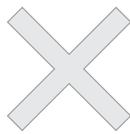
- 1 - 0.75" Wall Mount Bracket

PATTERNS

Patterns feature illuminated corners and angles. Must consult factory for custom corners, patterns and elevations.



Square Patterns



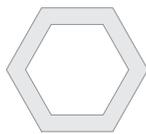
X Patterns



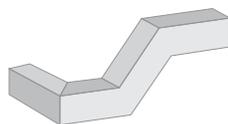
T Patterns



Custom Angles

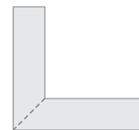


Custom Patterns



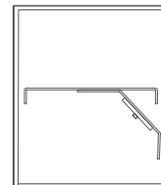
Custom Elevations

LENS CUT



Mitered

WALL WASH REFLECTOR



Cross Section

Updated: 12/13/2019

CORONET, Inc.
55 Shepherds Lane
Totowa, NJ 07512

T 973 345 7660
F 973 345 8705

CORONET, Inc. reserves the right to make any design changes for continuous improvement which will not affect the overall appearance or performance.

WWW.CORONETLED.COM

2/2

ARUP

Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: iGuzzini : Track
Description: 2 Circuit Surface Mounted Track

Fixture Wattage: NA
Lumen Output: NA
Lamp CRI: 80+

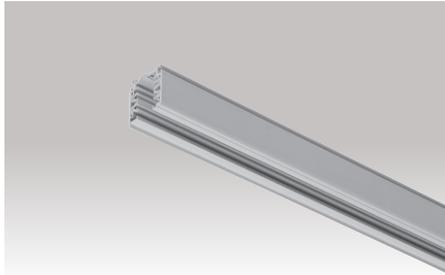
Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: I.016x

2 CIRCUIT TRACK

SPECIFICATION SHEET PAGE: 1 OF 3

Project name: _____
Type: _____



General information

Mounting: Surface mount or suspended.

Body: Extruded aluminum professional track.

Electrical: 120V or 277V with two circuits, 20A per circuit.
2 hot, 2 neutral. Line voltage dimming capability.

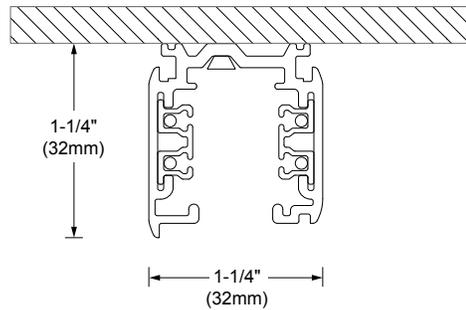
Finish:

Track: Anodized natural aluminum, white or black painted.

Accessories: White, black or gray painted.

Warranty: 1 year limited warranty.

Certification: cULus listed for dry location.



SECTION VIEW

Type:

AT01

Page 1 of 3

Lighting Notes:

1. Finish to be specified by architect
2. Add alternate: Standard Finish

DUE TO CONTINUOUS IMPROVEMENTS, THE INFORMATION HEREIN MAY BE CHANGED WITHOUT NOTICE.

LAST UPDATE: JULY 09, 2018

JP - R7



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ARUP

Project Number: 271565
Phone: 1 212 896 3000

2 CIRCUIT TRACK

SPECIFICATION SHEET

PAGE: 2 OF 3

Project name: _____

Type: _____

Type:

AT01

Page 2 of 3

ELECTRICAL COMPONENTS (TO BE ORDERED SEPARATELY)

Feedable connexions

- 120V 277V
 01 - White 02 - Black 10 - Gray

I.0175 - Live end feed



I.0176 - Live end feed mirror



I.0177 - Linear coupler



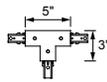
I.0178 - Direct coupler



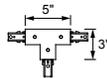
I.0179 - L-Connector adjustable polarity



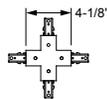
I.0180 - T-Connector right polarity



I.0181 - T-Connector left polarity



I.0182 - X-Connector



I.0183 - Adjustable connector



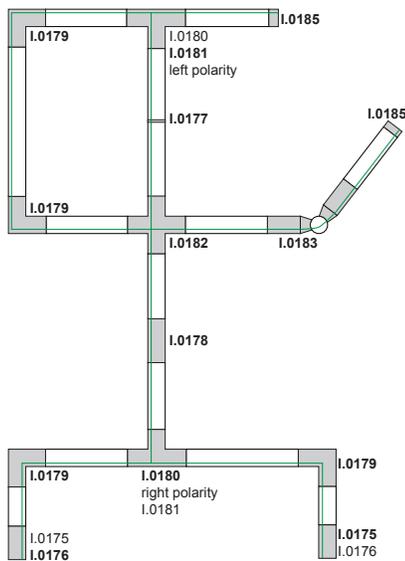
I.0184 - Outlet box cover



I.0185 - End cap



Example of configuration



Track is polarized and is manufactured with identifying ridge (green line on diagrams). Refer to these diagrams to ensure proper connector selection.

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ARUP

Project Number: 271565
Phone: 1 212 896 3000

2 CIRCUIT TRACK

SPECIFICATION SHEET

PAGE: 3 OF 3

Project name: _____

Type: _____

Type:

AT01

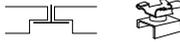
Page 3 of 3

SURFACE MOUNTING (TO BE ORDERED SEPARATELY)

Track mounting clip

01 - White 02 - Black

I.0201 - For T-BAR 15/16"
Recommended for Tegular edge tile



I.0202 - For T-BAR 15/16"
Recommended for Square edge tile



I.0205 - For dry wall or threaded rod 1/4"-20
(Rod supplied by others)



ACCESSORIES (TO BE ORDERED SEPARATELY)

I.0186 - Conductor bending tool
(required during field length cutting)



Cover

01 - White 02 - Black 10 - Gray

I.0191 - Plastic cover to hide track mounting clip
when using stem, cable or rod.



SUSPENSION MOUNTING (TO BE ORDERED SEPARATELY)

Painted finish

01 - White⁽¹⁾ 02 - Black⁽¹⁾ 10 - Gray⁽¹⁾
 21 - Black/White⁽²⁾ 20 - Gray/White⁽²⁾

Stem kit

I.0208-12 - 12" stem
 I.0208-18 - 18" stem
 I.0208-24 - 24" stem
 I.0208-48 - 48" stem
Includes canopy, stem, 5'5" power cable and track mounting clip



I.0204-12 - 12" stem
 I.0204-18 - 18" stem
 I.0204-24 - 24" stem
 I.0204-48 - 48" stem
Includes GWB anchor, stem and track mounting clip



Aircraft cable kit

I.0216 - Canopy kit
Includes canopy, 5'-5" aircraft cable, 5'-5" power cable
and 6" stem with track mounting clip



I.0212 - Anchor kit
Includes GWB anchor, 5'-5" aircraft cable and 6" stem
with track mounting clip



Canopy

I.0220 - Canopy with 5'-5" power cable



⁽¹⁾ Canopy or anchor will match the kit color

⁽²⁾ Kit includes a default white painted canopy or anchor

ORDERING INFO

RESET INFO

MODEL	VOLTAGE	FINISH
<input type="radio"/> I.0166 - 4'L	<input type="radio"/> 120 - 120V	<input type="radio"/> 01 - White
<input type="radio"/> I.0167 - 8'L	<input type="radio"/> 277 - 277V	<input type="radio"/> 02 - Black
<input type="radio"/> I.0168 - 12'L		<input type="radio"/> 12 - Aluminum

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LAST UPDATE: JULY 09, 2018

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iGuzzini
NORTH AMERICA



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P.: 514.523.1339 F.: 514.525.6107 www.iguzzini-na.com

ARUP

Project Number: 271565
Phone: 1 212 896 3000

Manufacturer: iGuzzini : Adjustable Track Light**Description:** Adjustable Track Light**Fixture Wattage:** 28 W**Lumen Output:** 2010 lumen**Lamp CRI:** 90+**Lighting Controls:** 0-10V Dimming**Voltage:** 120 V**Fixture Finish:** Galvanized, Clear anodized or custom RAL**Lamp CCT:** 3000K**Assembly Code:** I.PLC S-930-WF-120-X-X**PALCO SMALL**
LEDType: _____ SPECIFICATION SHEET
Project: _____ Page: 1 of 4

Palco, a veritable family of projectors, considers the work exhibited not only as a physical element, but also its content, the feelings and the message that it is communicating, without forgetting about the space and its contribution to the work. Its shape is inspired by the brush, the main tool used by the artist in the creative process.

Luminaire characteristic:

Power input: 7.5 or 29W
Lumens: from 235 to 2010lm (for 3000K, 90CRI)
Luminaire efficacy: Up to 69lm/W

Source: White LED (LM-80 tested)
 3000K : 90CRI,
 4000K : 80CRI.

Lumen maintenance: 80% of initial lumens at 50 000 hours (L80).

Optic: Super Spot, Spot, Medium, Flood, Wide Flood or Wall Washer optics.

Material: Optical body and arm: Die-cast aluminum
 Accessory holder ring and driver housing: thermoplastic
 Reflector: formed aluminum (all optics except Super Spot)
 Lens: methacrylate (only for Super Spot optic)
 Protective screen: glass.

Mounting: Track adaptor with circuit selector for two circuit tracks. Also, compatible with TEK or HTEK from Nordic Aluminum.

Electrical: Integral high efficiency driver 120 / 277V

Dimming: Leading (Triac) and trailing edge (ELV) for 120V only.

Finish: White RAL9010, Black.

Weight: STANDARD: 2.8lbs (1.3kg)
 WALL WASHER: 3.2lbs (1.4kg)

Warranty: 5 year limited warranty.

Ratings: IP20

Certification:  cULus listed for dry location.

Type:**ATH1**

Page 1 of 4

Lighting Notes:

1. Finish to be specified by architect
2. Provide hex louvers for 10% of fixtures
3. Add alternate: Standard Finish

ARUP

Project Number: 271565

Phone: 1 212 896 3000

PALCO
SMALL LED

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 2 of 4

Type:

ATH1

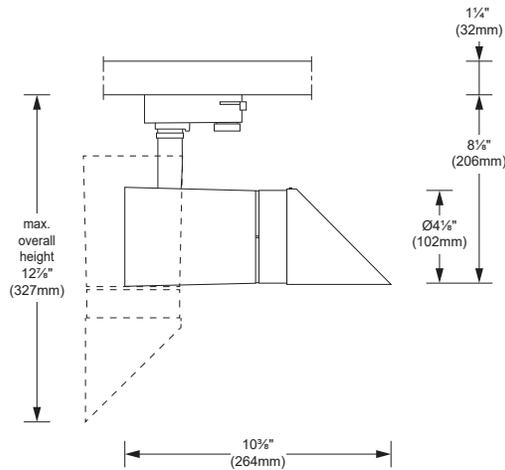
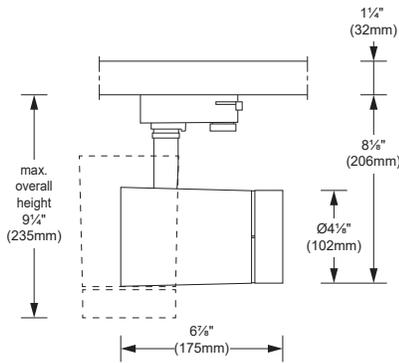
Page 2 of 4

DIMENSION

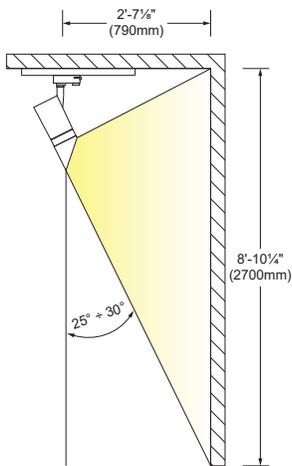
STANDARD

Super Spot, Spot, Medium, Flood and Wide Flood optics

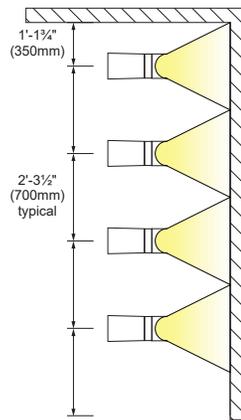
WALL WASHER



WALL WASHER SUGGESTED SPACING AND WALL DISTANCE



SIDE VIEW



TOP VIEW

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Due to continuous improvements, the information herein may be changed without notice



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ARUP

Project Number: 271565
Phone: 1 212 896 3000

PALCO
SMALL LED

Type: _____ SPECIFICATION SHEET
Project : _____ Page: 3 of 4

Type:

ATH1

Page 3 of 4

PHOTOMETRIC DATA

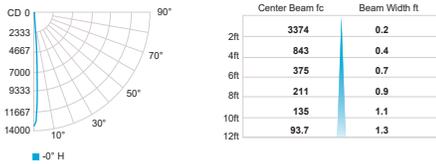
Visit iguzzini.com/us for complete photometric data.

CCT (K)	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / w)	MAX CANDELA (cd)
3000K	90	7.5W	Super Spot ⁽¹⁾	235	31	13 495
		29W	Spot	1960	68	20 965
			Medium	1955	67	11 300
			Flood	1895	65	5 285
			Wide Flood	2010	69	3 830
			Wall Washer	1010	35	1 555

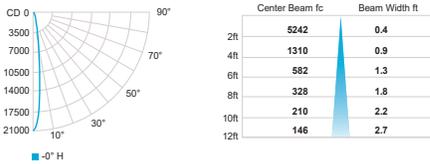
*Use multiplier table for other cct and cri output data
⁽¹⁾Not applicable for Super Spot model

CCT options	4000K
CRI options	80CRI
Multiplier	1.13

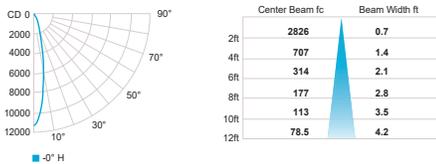
Super Spot 6° (7.5W - 3000K - 90 CRI)



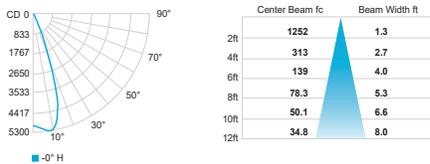
Spot 12° (29W - 3000K - 90 CRI)



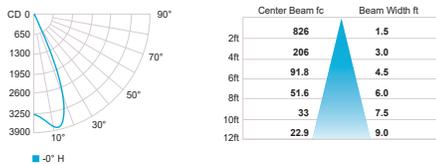
Medium 20° (29W - 3000K - 90 CRI)



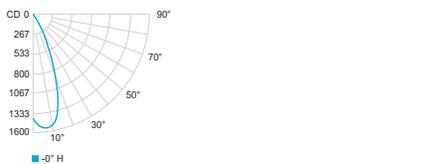
Flood 38° (29W - 3000K - 90 CRI)



Wide Flood 46° (29W - 3000K - 90 CRI)



Wall Washer (29W - 3000K - 90 CRI)



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ARUP

Project Number: 271565
Phone: 1 212 896 3000

PALCO
SMALL LED

Type: _____ SPECIFICATION SHEET
Project: _____ Page: 4 of 4

Type:

ATH1

Page 4 of 4

ORDERING INFO

I.PLC S - - - - -
FIXTURE

RESET

MODEL

I.PLC S - Small

LED

840 - 4000K, 80 CRI **930** - 3000K, 90 CRI

OPTIC

SS - Super Spot⁽¹⁾ **SP** - Spot **MD** - Medium **FL** - Flood
 WF - Wide Flood **WW** - Wall Washer

VOLTAGE

120 - 120V **277** - 277V

FINISH

01 - White **02** - Black

DIMMING

LTE - Leading and Trailing edge dimming (120V only)

⁽¹⁾ Only available with 3000K, 90CRI LED (**930**)

ACCESSORIES (TO BE ORDERED SEPARATELY)
for installation consult the instruction sheet

INTERCHANGEABLE REFLECTORS

I.MXW5-12 - Spot **I.MXW6-12** - Medium **I.MXW7-12** - Flood **I.MXW8-12** - Wide Flood 

LENS (Maximum 1 per fixture)

I.MXD8-24 - Soft focus lens  **I.MXB7-24** - Medium elliptical lens 
 I.MXC0-24 - Large elliptical lens 
 I.MY34-24 - Opti beam elliptical lens⁽¹⁾

OPTICAL ACCESSORIES

I.MXF0-02 - Louvre (black)⁽²⁾  **I.MXF3-01** - Antiglare screen (white)⁽³⁾  **I.MXF6-02** - Directional flaps (black) 
 I.MY90-02 - Opti beam louvre (black)  **I.MXF3-02** - Antiglare screen (black)⁽³⁾ 

⁽¹⁾ Only available for Super Spot (SS).

⁽²⁾ Must be used with I.MXD8 lens.

⁽³⁾ Only available for Super Spot (SS) and Spot (SP) optics and I.MXD8 must be used with Spot (SP) optic assembly.

Manufacturer: BEGA : 22248
Description: Recessed Wall Light

Fixture Wattage: 2 W
Lumen Output: 159 lumen
Lamp CRI: 80+

Lighting Controls: 0-10V Dimming

Voltage: 120 V
Fixture Finish: Galvanized, Clear anodized or custom RAL
Lamp CCT: 3000K
Assembly Code: 22248-K3

LED recessed wall - shielded

BEGA

Type:
AW02

Page 1 of 1

Lighting Notes:

1. Finish to be specified by architect
2. Add alternate: Standard Finish

Application

Designed for low mounting heights for interior and exterior locations, the shielded light distribution is ideal for the glare-free illumination of ground surfaces, building entrances, stairs, and footpaths.

Materials

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

NRTL listed to North American Standards, suitable for wet locations
Protection class IP65
Weight: 2.2 lbs

Electrical

Operating voltage 120-277V AC
Minimum start temperature -30° C
LED module wattage 3.9 W
System wattage 6.0 W
Controllability 0-10V dimmable
Color rendering index Ra > 90
Luminaire lumens 159 lumens (3000K)
Lifetime at Ta = 15° C >500,000 h (L70)
Lifetime at Ta = 45° C 172,000 h (L70)

LED color temperature

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

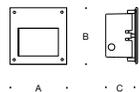
BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

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

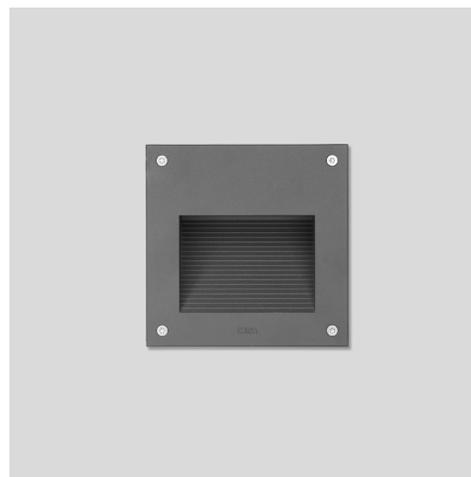
Available colors Black (BLK) White (WHT) RAL:
 Bronze (BRZ) Silver (SLV) CUS:

Type:
BEGA Product:
Project:
Modified:



LED recessed wall · shielded

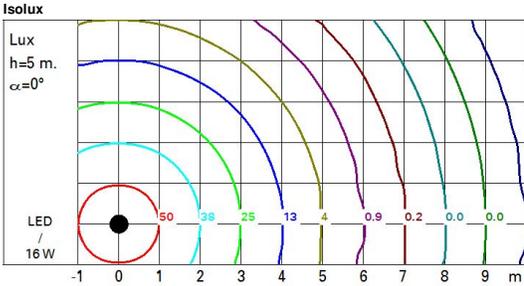
	LED	A	B	C
22272	ADA 3.9W	5 7/8	5 7/8	4 1/8



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

Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com © copyright BEGA 2018 Updated 12/13/19

ARUP
Project Number: 271565
Phone: 1 212 896 3000



Type:
AWS03
Page 2 of 2

UGR diagram

Corrected UGR values (at 2150 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
cell/cav	walls	work pl.	Room dim x	Room dim y							
0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.50	0.30
0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.50	0.30
0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2H	2H	20.1	20.9	20.4	27.1	27.3	20.1	20.9	20.4	27.1	27.3
	3H	20.0	20.0	20.3	20.9	27.2	20.0	20.0	20.3	20.9	27.2
	4H	25.9	20.5	20.2	20.8	27.1	25.9	20.5	20.2	20.8	27.1
	0H	25.8	20.4	20.2	20.7	27.0	25.8	20.4	20.2	20.7	27.0
	0H	25.8	20.3	20.2	20.7	27.0	25.8	20.3	20.2	20.7	27.0
	12H	25.8	20.3	20.1	20.6	27.0	25.8	20.3	20.1	20.6	27.0
4H	2H	25.9	20.5	20.2	20.8	27.1	25.9	20.5	20.2	20.8	27.1
	3H	25.8	20.3	20.1	20.6	27.0	25.8	20.3	20.1	20.6	27.0
	4H	25.7	20.1	20.1	20.5	20.9	25.7	20.1	20.1	20.5	20.9
	0H	25.0	20.0	20.0	20.4	20.8	25.0	20.0	20.0	20.4	20.8
	0H	25.5	25.9	20.0	20.3	20.7	25.5	25.9	20.0	20.3	20.7
	12H	25.5	25.8	25.9	20.2	20.7	25.5	25.8	25.9	20.2	20.7
8H	4H	25.5	25.9	20.0	20.3	20.7	25.5	25.9	20.0	20.3	20.7
	0H	25.4	25.7	25.9	20.2	20.7	25.4	25.7	25.9	20.2	20.7
	0H	25.4	25.0	25.9	20.1	20.6	25.4	25.0	25.9	20.1	20.6
	12H	25.3	25.0	25.8	20.0	20.6	25.3	25.0	25.8	20.0	20.6
12H	4H	25.5	25.8	25.9	20.2	20.7	25.5	25.8	25.9	20.2	20.7
	0H	25.4	25.0	25.9	20.1	20.6	25.4	25.0	25.9	20.1	20.6
	0H	25.3	25.0	25.8	20.0	20.6	25.3	25.0	25.8	20.0	20.6
Variations with the observer position at spacing:											
S =	1.0H	3.2 / -10.0					3.2 / -10.0				
	1.5H	5.5 / -23.3					5.5 / -23.3				
	2.0H	7.5 / -25.3					7.5 / -25.3				

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