
sesco lighting

SESCO'S GUARANTEE TAKES THE **iii** OUT OF **iiiii**UMINATION®

211 OCEAN BOYNTON

PROJECT # 16-2949A



SUBMITTED BY:

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SESCO Lighting

WE TAKE THE *///* OUT OF *///*UMINATION

Project: 211 OCEAN BOYNTON # 16-2949A

Contents - December 1, 2016

Type	Factory	Description
C	Tokistar	EX-BK-6-UB-S14-F / T12-150
D	Gardco	BRM830-42-CWL-NW-360-UNV-*** ADVISE FINISH
E1	Luminaire Lighting	SR135-L1W18r0-R2-120V-***-APC / PSB8'
E1A	Luminaire Lighting	SR135-L1W18r0-R2-120V-***-T ADVISE FINISH
E3	Luminaire Lighting	SR135-L2W30r1-R1-120V-***-APC / PSB8'
F	BK Lighting	DS-LED-e**-***-A9-***-12-A-360SL / TR SERIES ADVISE CONFIGURATION
G	Hadco	B8608-***-K-D / SEES#AL9.9-40-A19-D ADVISE FINISH
H	Hadco	B8608-XXX-K-D-SEES#AL9.9-40-A19-D ADVISE FINISH
J	TBD	EXISTING TO REMAIN
K	H. E. Williams	RNDP-3-L67/830-FXA-S-**-38-*-ACF3P-**- DIM-120V
L	H. E. Williams	RNDP-2-L25/830-FXA-S-**-38-*-ACF3P-**- DIM-120V
M	H. E. Williams	L60-L11C/830-CS-M-DIM-120V
N	H. E. Williams	96-4-L40-830-DFR-DIM-120V
P	Liton Lighting	LP-**-* / LTD7410-*-B25-DLV-T30 / LP941 / LP900-* SEE NOTES
Q	Better Designed Lighting (BDL)	45457OZ / SEES#AL9.930-A19-D
R	Luminis	SR135-L1W18r0-R2-120V-XXX-T ADVISE FINISH
S	TBD	SELECTED BY OWNER
EM	Beghelli	XMR-S1
EX	Beghelli	VA5-R-SA-AT-IRT



Design Guidelines

Socket Spacing

Consider line of sight and viewing perspective when deciding on socket spacing. More distant spacings (18"-24") are the best choice for most festoon applications. Closer spacings (6"-12") are appropriate for applications at closer viewing range. Any custom spacing is available on request.

Light Sources

0.48 Watt LEDs

With incredible life ratings, all Tokistar LEDs are ideally suited for continuous operation in commercial applications. LEDs rated at 0.48 watts provide a softer lighting effect and are the most energy-efficient choice. These LEDs consume so little energy they can span much greater distances from a single feed point.



0.48 Watt LEDs

Part#	Watts/Volts	Hours	Lumens	Color
EX-WW	0.48 Watts / 24VAC	40K - 50K	12.5	2500K
EX-WH	0.48 Watts / 24VAC	40K - 50K	18.0	5500K
EX-BL	0.48 Watts / 24VAC	40K - 50K	1.4	Blue
EX-GR	0.48 Watts / 24VAC	40K - 50K	4.6	Green
EX-OR	0.48 Watts / 24VAC	40K - 50K	2.5	Orange
EX-PL	0.48 Watts / 24VAC	40K - 50K	3.8	Purple
EX-RD	0.48 Watts / 24VAC	40K - 50K	2.6	Red
EX-YG	0.48 Watts / 24VAC	40K - 50K	8.0	Yellow-Green

LEDs Shown with Frosted Globes



Virtual Incandescent and Ultra Bright LEDs

Virtual Incandescent™ LEDs do a remarkable job of emulating traditional incandescent filaments. Ultra Bright LEDs do the same, while providing a brighter light source. Both LEDs are rated at 1.8 watts.



Ultra-Bright LED



Virtual Incandescent™ LED

Ultra Bright and Virtual Incandescent LEDs

Part#	Watts/Volts	Hours	Lumens	Color
EX-UB	1.8 Watts / 24VAC	40K - 50K	45	2400K
EX-VI	1.8 Watts / 24VAC	40K - 50K	40	2400K

Xenon Lamp

Tokistar's Exhibitor Series was originally introduced with incandescent xenon lamps, and we still offer them as an option. Due to the efficiency and exceptional life of LED sources, xenon lamps are no longer the most popular choice.

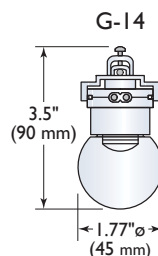
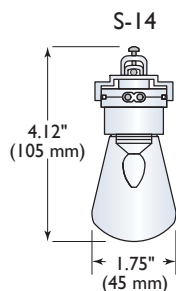
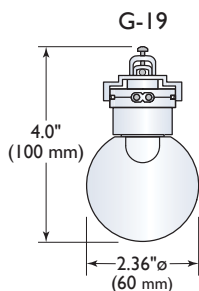


Xenon Lamp

Part#	Watts/Volts	Hours	Lumens	Color
EX-124	7.5 Watts / 24VAC	10K	65	2500K

Globe Selection

Three different shapes are available: G-19, G-14 and S-14. Clear globes have excellent clarity and will emphasize distinct points of light. Frosted globes diffuse light and have a softer appearance. Each globe includes two O-rings for a secure and weatherproof seal to the socket. G-19 transparent colored globes create vibrant color. Virtual Incandescent LEDs are not recommended for use with frosted globes, and our xenon lamp is not for use with G-14 globes.



G-19 globes are also available in transparent Green, Amber, Blue, Red and Violet.



How to Specify

When specifying an Exhibitor Lighting System, take into consideration:
Socket Spacing, LED Style and Globe Selection.

The Basic System

The Exhibitor Series consists of sockets permanently sealed to flexible cable.
All components are rated for wet-location use.

➔ **EX**BK - **6** - **VI** - **S14** - **C**

Cable / Socket Color		Socket Spacing		LED			Globe Style		Globe Color	
Code	Color	Code	Inches (mm)	Code	Color	Watts/Volts	Code	Style	Code	Color
➔ BK	Black	➔ 6	6" (150 mm)	➔ UB	2400K White	1.8 W / 24 VAC	G19	G-19	C	Clear
WH	White	12	12" (300 mm)	VI	2400K White	1.8 W / 24 VAC	G14	G-14	F	Frosted
		18	18" (450 mm)	Virtual Incandescent (VI) not for use with Frosted Globes			S14	S-14	G	Green
		24	24" (600 mm)	WW	2500K White	0.48 W / 24 VAC	G-14 & S-14 in clear and frosted only		A	Amber
		Custom spacing is available.		WH	5500K White	0.48 W / 24 VAC			B	Blue
				BL	Blue	0.48 W / 24 VAC			R	Red
				GR	Green	0.48 W / 24 VAC			V	Violet
				OR	Orange	0.48 W / 24 VAC			M	Multi-Color
				PL	Purple	0.48 W / 24 VAC				
				RD	Red	0.48 W / 24 VAC				
				YG	Yellow-Green	0.48 W / 24 VAC				
(Any Combination of 0.48 Watt Colors is Possible)										
Xenon Lamp										
				124	2500K	7.5 W / 24 VAC				
Xenon lamp not for use with G-14 globes										

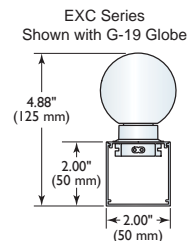
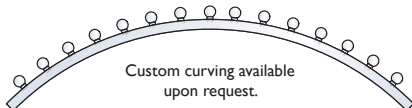
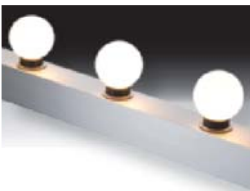


EXC Series

EXC Series incorporates Exhibitor Series into a 2" x 2" satin aluminum profile for use in all environments.
Custom finishes are available upon request. Fixtures can be wired for single circuit or chasing effects.

EXC - 6 - UB - G19 - F

Extrusion Finish		Socket Spacing		LED			Globe Style		Globe Color	
Code	Color	Code	Inches (mm)	Code	Color	Watts/Volts	Code	Style	Code	Color
EXC	Satin Aluminum	6	6" (150 mm)	UB	2400K White	1.8 W / 24 VAC	G19	G-19	C	Clear
		12	12" (300 mm)	VI	2400K White	1.8 W / 24 VAC	G14	G-14	F	Frosted
		18	18" (450 mm)	Virtual Incandescent (VI) not for use with Frosted Globes			S14	S-14	G	Green
		6C	6" Chase (150 mm)	WW	2500K White	0.48 W / 24 VAC	G-14 & S-14 in clear and frosted only		A	Amber
		12C	12" Chase (300 mm)	WH	5500K White	0.48 W / 24 VAC			B	Blue
		Custom spacing is available.		BL	Blue	0.48 W / 24 VAC			R	Red
				GR	Green	0.48 W / 24 VAC			V	Violet
				OR	Orange	0.48 W / 24 VAC			M	Multi-Color
				PL	Purple	0.48 W / 24 VAC				
				RD	Red	0.48 W / 24 VAC				
				YG	Yellow-Green	0.48 W / 24 VAC				
(Any Combination of 0.48 Watt Colors is Possible)										
Xenon Lamp										
				124	2500K	7.5 W / 24 VAC				
Xenon lamp not for use with G-14 globes										





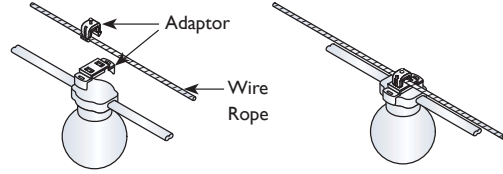
Mounting Options

Festoon Mounting

Part# EX-MDA-WH (White)

Part# EX-MDA-BK (Black)

For festoon applications to a catenary cable, our wire-rope adaptors securely hold each socket in place to a 1/16" or 1/8" diameter wire rope. Wire rope and all of its associated mounting hardware is not provided with the system.

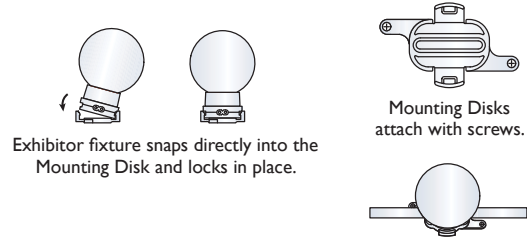


Surface Mounting with Disks

Part# EX-MD-WH (White)

Part# EX-MD-BK (Black)

Exhibitor Series can be surface mounted to structures using mounting disks. One disk is required for mounting each socket. The socket can be snapped into the disk first, and the entire assembly screwed in place to the structure.

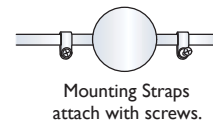


Surface Mounting with Straps

Part# EX-MS-WH (White)

Part# EX-MS-BK (Black)

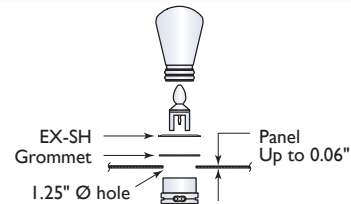
Exhibitor Series may be surface mounted to structures using our mounting straps. Two straps are required for mounting each socket. Straps are positioned on either side of the socket, and then screwed securely to the structure.



Panel-Extrusion Mounting

Part# EX-SH

For installations to flat panels or extrusions up to 0.06", we offer stainless-steel panel fasteners. The socket assembly is inserted from below, then the panel fastener and grommet are pressed in place from above.

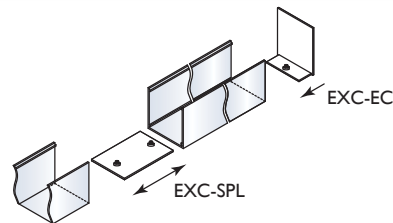


EXC Series

Part# EXC-SPL (Exhibitor Splice)

Part# EXC-EC (Exhibitor End Caps)

End Caps are required at the end and beginning of each run of fixture. When EXC fixtures are positioned end-to-end, a splice is needed to seam them together.



Sizes and Lengths

To minimize voltage drop and keep conductors safely within their ratings, do not exceed the maximum lengths shown for each independent fixture.

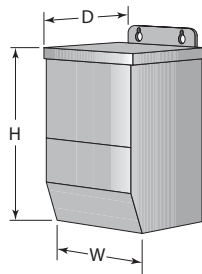
Socket Spacing	Maximum Run Lengths		
	LEDs	UB & VI LEDs	Xenon Lamp
6" (150 mm)	0.48 Watt / 24VAC	1.8 Watt / 24VAC	7.5 Watt / 24VAC
12" (300 mm)	250' (76 M)	125' (38 M)	32' (10 M)
18" (450 mm)	350' (106 M)	200' (60 M)	56' (17 M)
24" (600 mm)	420' (128 M)	225' (68 M)	72' (22 M)
	500' (152 M)	250' (76 M)	80' (24 M)



Transformers

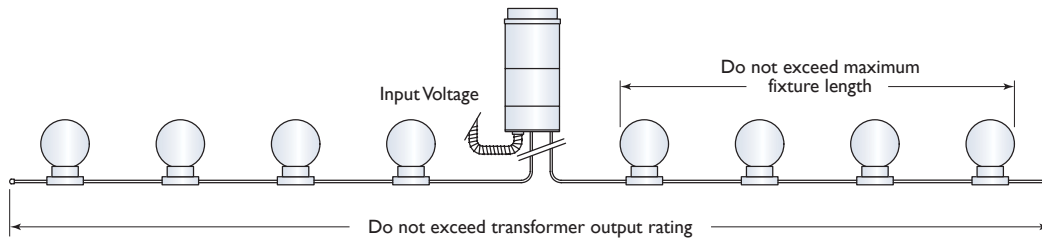
Tokistar transformers operate from a 120 VAC/60 Hz input and are fully dimmable. They are provided in a Nema 3R enclosure suitable for wet locations. The secondary outputs are protected by circuit breakers. Transformers should be installed in an accessible location where there is free air circulation.

24 VAC Transformers					
Number	Outputs	D	H	W	Weight
C2-40-24V	1 @ 40 Watt / 24 VAC	2.25"	5.75"	2.25"	2 lbs
C2-96-24V	1 @ 96 Watt / 24 VAC	2.5"	6.5"	3.0"	3 lbs
T24-150	1 @ 150 Watt / 24 VAC	3.0"	9.0"	3.0"	5 lbs
T24-300	1 @ 300 Watt / 24 VAC	3.5"	9.5"	4.5"	8 lbs
T24-600	1 @ 600 Watt / 24 VAC	4.5"	10.5"	4.5"	15 lbs
T24-1200	2 @ 600 Watt / 24 VAC	5.0"	11.5"	7.0"	28 lbs



Consult factory for transformers with input voltages of 230 or 277VAC. Sizes and weights shown are approximate and subject to change without notice.

Transformers can be centrally located and feed fixtures in either direction.



Specifications



All plastic components comply with UL746C in respect to Ultraviolet Light and Water Absorption testing.

Light Sources include LED and Xenon lamps

Polycarbonate Globe with flammability rating UL 94V-2

Flexible Conductors #12 AWG stranded and plated wire

Two O-Rings on each globe for weatherproof seal

Sockets permanently fastened to cable with sealant

Insulation is flexible PVC with flammability rating UL 94 HB





TOKISTAR LIGHTING INSTRUCTION MANUAL

T12-150

12 VOLT/150 WATT TRANSFORMER

General

This transformer is to be installed in accordance with Article 450 of the National Electrical Code. The transformer must be installed in a well ventilated area free from explosive gases and vapors. Proper operation requires the free flow of air. Only a qualified electrician should install this hardwired transformer.

Precautions Before Installing

Check the label and ensure the transformer has the proper input voltage, output voltage and wattage for the job. Check the wire markings to ensure they match the wiring diagram on this instruction sheet.

Mounting

Select a suitable location capable of supporting the weight of the transformer. Use the two keyholes provided on the mounting flange. The transformer must be mounted vertically with the wiring compartment pointing down.

Input Connections/Grounding

Remove the wiring compartment knockouts and install strain reliefs. With power turned off, route the input wires through a strain relief and connect one wire to black and one wire to white. For all wire connections use only UL Listed wire nuts and connectors of suitable size and type.

The transformer case **MUST** be grounded in accordance with the N.E.C. Connect the transformer green wire to ground.

Output Connections

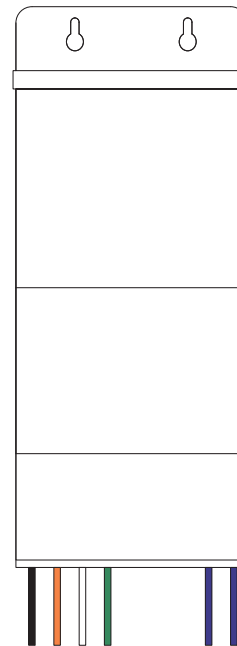
With all unused leads insulated, turn power to the unit on. Check the secondary voltage to be sure it is right for the load. Turn power to the transformer off. Remove the wiring compartment knockouts and install strain reliefs for the lead wires from the lighting fixtures. Each set of lighting fixture leads should be routed through the strain relief and connected to the set of blue wires.

Boost Tap

This transformer is equipped with an optional 10% boost tap which can compensate for voltage drop between the transformer and the lighting fixture. If the fixtures are receiving 10.5 Volts or less, we recommend you connect the boost tap. To use the boost tap, the input wires are connected to the orange and white wire instead of the black and white wire. Make certain the black wire is capped with a wire nut if you use the boost tap. Make certain the orange wire is capped with a wire nut if you do not use the boost tap.

Transformer Data

INPUT VOLTAGE	120VAC / 60 Hz
OUTPUT VOLTAGE	12 VAC
CAPACITY (WATTS)	150 VA
INSTALLED BREAKER (s)	1 @ 20 Amps
WEIGHT	5 Pounds



INPUT WIRES WITHOUT BOOST TAP:
Black & White

INPUT WIRES WITH BOOST TAP:
Orange & White

GROUND WIRE: Green

OUTPUT WIRES: Blue & Blue

TOKISTAR LIGHTING

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TEL: 714 772 7005 FAX: 714 772 7014
E-mail: info@tokistar.com Web site: www.tokistar.com



PHILIPS
GARDCO

Bollards

Dome/bevel top louver

BRM830/831/833
BRM834/835/837



Project: _____
Location: _____
Cat.No: _____
Type: _____
Quantity: _____
Notes: _____

Philips Gardco dome and bevel top louver LED bollards provide uniform illumination, superior spacing and solid vandal resistance. Rugged extruded and cast construction with silicone seals and gasketing assure years of durability. Our advanced stack-louver LED technology and motion response provide maximized light output energy savings.

Ordering guide

Example: BRM830-42-CWL-NW-360-UNIV-BRP-SPR

Prefix	Height	LED Control ⁴	LED Selection	Lighted Coverage	Voltage	Finish	Options
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
BRM830 Dome top with cast aluminum base	42 42" 36" ²	MR Motion Response - LEDs stay on low level (8W) when no motion is present and increase to full light output (41W) when motion detected.	CW 6500K, 75 CRI NW 4500K, 75 CRI WW 3000K, 75 CRI	360 360° lighted louvers 180 180° lighted louvers (provides reduced backside light)	347⁵ UNIV (120-277V)	BLP Black Paint WP White Paint BRP Bronze Paint NP Natural Aluminum Paint OC Optional Color Specify optional color or RAL. ex: OC-LGP or OC-RAL7024. SC Special Color Specify. Must supply color chip. Requires factory quote.	SPR Surge Protection for 120-277V input meeting ANSI C62.41.2 SPRH Surge Protection for 347V input meeting ANSI C62.41.2
BRM833 Dome top with natural concrete base	11" ³ 11"	CWL Constant Wattage Full Light Output - full light output only (41W). No motion sensor included.	Solid Colors LA⁵ Amber LR⁵ Red LG⁵ Green LB⁵ Blue				
BRM833B Dome top with beige concrete base							
BRM33G Dome top with grey concrete base							
BRM834 Bevel top with cast aluminum base							
BRM835¹ Bevel top head only							
BRM837 Bevel top with natural concrete base							
BRM837B Bevel top with beige concrete base							
BRM837G Bevel top with grey concrete base							

- Not available in 347V.
- BRM830 and BRM834 only.
- 11" height option to be selected only for "head only" units - BRM831 and BRM835.
- A variation of LED wattage (+/- 8%) may occur due to LED manufacturer's forward volt specification and ambient temperature.)
- Consult factory for lead times.
- 347V bollards require and include a step-down transformer in bollard. Not available in BRM831 or BRM835.

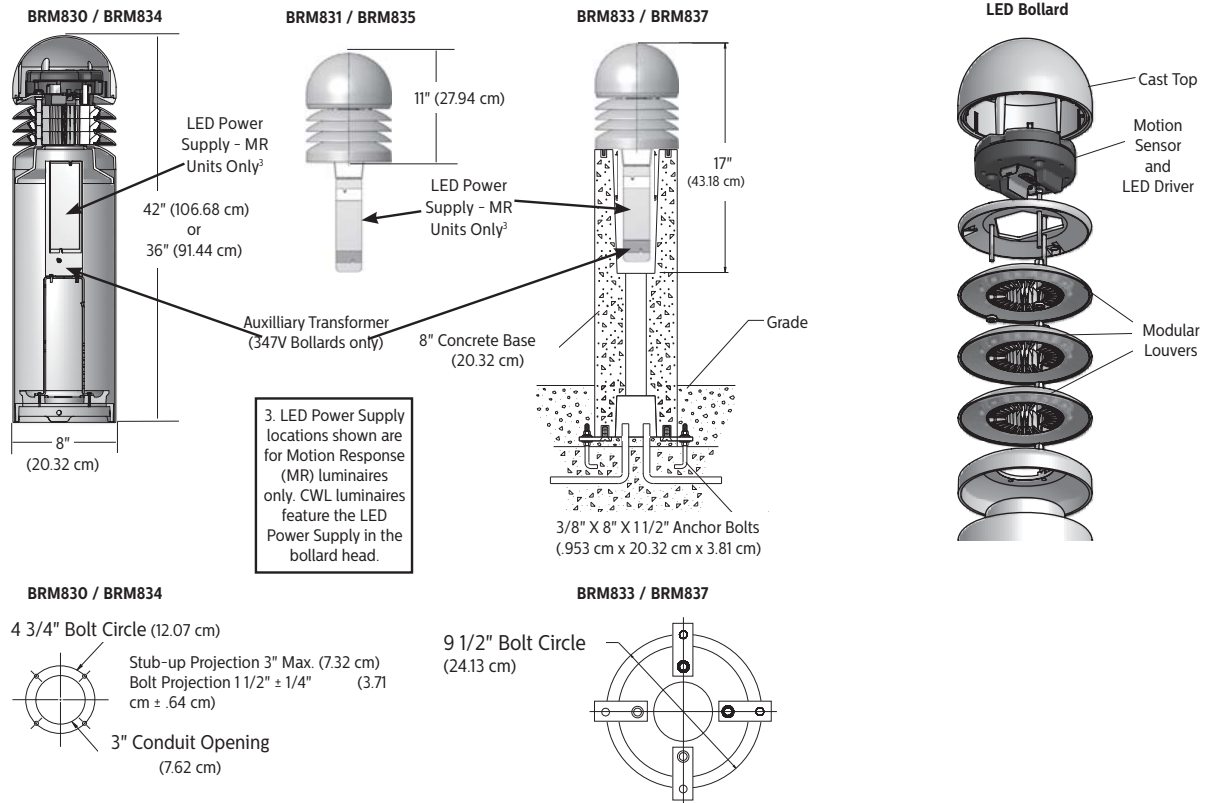




BRM830/831/833/834/835/837 LED bollard

Dome or bevel top louver

Dimensions



NOTE: Factory supplied template must be used when setting anchor bolts. Philips Gardco will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.



BRM830/831/833/834/835/837 LED bollard

Dome or bevel top louver

Specifications

Upper Housing

Diecast aluminum dome top secures to one-piece louvered casting with three (3) concealed tamper resistant screws.

Lower Housing

BRM830 / BRM834: Luminaire features a cylindrical .125" (.318 cm) wall 6063-T5 extruded aluminum base housing. Bottom section has a welded-in cast ring for attachment to base assembly with four (4) hex head set screws.

BRM831 / BRM835: Louver head assembly is affixed to ballast mounting bracket which is suitable for insertion into architectural elements (by others).

BRM 833 / BRM837: Luminaire includes a pre-cast concrete base constructed with steel molds and wire reinforcing. Base is acid-etched to provide a smooth textured aggregate finish.

LED Performance

PREDICTED LUMEN DEPRECIATION DATA ⁴		
Ambient Temperature °C	Driver mA	L ₇₀ Hours ⁵
15 °C	350	112,000
25 °C	350	90,000
40 °C	350	65,000

4. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
5. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output.

Optical System

Philips Gardco LED Bollards feature the advanced Gardco stacked louver LED technology, assuring maximized light output. Each individual louver is replaceable if needed or desired.

Anchorage

BRM830 / BRM834: Base assembly consists of a cast aluminum platform and ballast mounting bracket. Assembly is secured and leveled to the mounting foundation with four (4) 3/8" X 8" x 1 1/2" (.953 cm x 20.32 cm x 3.81 cm) anchor bolts on a 4 3/4" (12.07 cm) bolt circle.

BRM 831 / BRM835: Mounting plate is cast aluminum with slots to accept anchor bolts (by others) at 90° on a 6 1/4" (15.88 cm) diameter bolt circle. A 4 1/2" (11.43 cm) diameter opening is required to house LED Power Supply for Motion Response (MR) units.

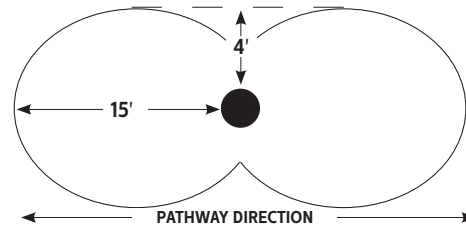
BRM833 / BRM837: Base assembly consists of four (4) galvanized steel base tabs fastened to pre-cast concrete base. Assembly is secured and leveled to the mounting foundation with four (4) 3/8" X 8" X 1 1/2" (.953 cm x 20.32 cm x 3.81 cm) anchor bolts on a 9 1/2" (24.13 cm) bolt circle. Base is designed for 5" (12.7 cm) direct burial.

Electrical

For CWL bollards, the LED power supply is located within the bollard head. For Motion Response (MR) bollards the LED power supply is located within the bollard shaft. Bollards accept from 120 Volts through 277 Volts, 50hz to 60 hz, input. Bollards with 347V input require and include a step-down transformer (placed within the bollard shaft) to provide proper input voltage to the LED power supply. The LED driver is located in the upper dome. LED power supplies and LED drivers are replaceable. LEDs provided as specified.

Luminaires ordered with Motion Response include a microwave motion sensor. The motion sensor is completely and safely concealed within the LED Bollard head to avoid potential vandalism to the sensor. LEDs operate on Low Level (8 watts) when no motion is present. LEDs increase to full light output (41 watts) when motion is detected. Motion Response system permits adjustments for time on high level and motion sensitivity.

Approximate Motion Sensor Detection Pattern:



Bollard orientation is adjustable in 120° increments. Consult LED Bollard Motion Response installation instruction sheets for more detailed information concerning bollard placement and sensor performance.

Luminaire Finish

Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured textured powdercoat finish

Labels

All luminaires bear UL or CUL (where applicable) Wet Location labels.

Warranty

5 year limited warranty. See philips.com/luminaires for complete details and exclusions.





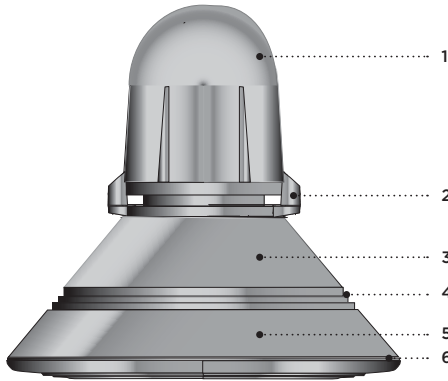
LUMINIS®

SR135 SERIES
SCIROCCO - LED

TYPE: _____ QUANTITY: _____ PROJECT: _____

CATALOG NUMBER:

FIXTURE WATTAGE VOLTAGE FINISH OPTION OPTION OPTION OPTION



Full cutoff luminaire

- 1- Cast aluminum driver housing.
- 2- Housing/shade assembly hinge mechanism.
- 3- Sealed and isolated LED compartment.
- 4- Cast aluminum shade.
- 5- LED optical control silicone lenses.
- 6- Hinged cast aluminum lens frame.

SR135-APC



MATERIALS

Scirocco is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%.
COB LED is assembled on a thick pad housing chamber designed with a heat sink pattern to optimize heat dissipation and luminaire efficacy. The power supply is enclosed in an isolated chamber allowing quick access for electrical maintenance without disturbing the optical chamber.
COB LED is removable and replaceable for ease of maintenance or lighting upgrade.

ELECTRICAL

LED

POWER SUPPLY Standard driver is 0-10V dimming-ready (dims to 10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -30°C/-22°F to 60°C/140°F, output over voltage protection, output over current protection and output short circuit protection with auto-recovery.

LED

Type II, III, IV or V light distribution via high performance optical lenses. Standard 4000K/80CRI. Optional 3500K and 5000K.

LIFE

125,000hrs (L₇₀B₅₀) based on LM-80 report for lumen maintenance.

FINISH

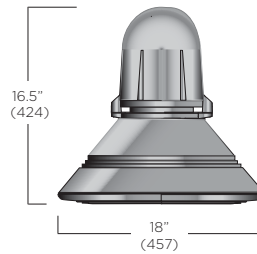
Five-stage preparation process including preheating of cast aluminum parts for air pocket extraction, and an environmentally friendly alloy sealant. Polyester powder coating is applied through an electrostatic process and oven cured for long term finish.

MOUNTING

Maximum weight: 31lbs (14.1kg)
Scirocco is a modular luminaire concept offering a selection of mounting arrangements for various architectural requirements.
Pole, wall or suspended attachments are offered with high quality components to meet multiple installation conditions.

CERTIFICATION

Tested to UL1598 and CSA22.2 #250. ETL listed for wet location.
Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C/77°F. Lumen depreciation in accordance with IESNA LM80 standards.
Rated IP65.




EPA: 0.68



Please visit our web site www.luminis.com for complete I.E.S. formatted download data.
Refer to page 5 for additional information.

SR135 SERIES
SCIROCCO - LED

LUMINAIRE SELECTION

MODEL#	LED LIGHT SELECTION (4000K/80CRI)			VOLTAGE ¹	FINISH	
 <input checked="" type="checkbox"/> SR135	Type II	INPUT WATTS	DELIVERED LUMENS	MODEL	<input checked="" type="checkbox"/> 120V <input type="checkbox"/> 277V Optional <input type="checkbox"/> 347V <input type="checkbox"/> 480V	STANDARD COLORS <input type="checkbox"/> WHT Snow white <input type="checkbox"/> BKT Jet black <input type="checkbox"/> BZT Bronze <input type="checkbox"/> MST Matte silver <input type="checkbox"/> GRT Titanium gray <input type="checkbox"/> DGT Gun metal <input type="checkbox"/> CHT Champagne <input type="checkbox"/> SGT Steel Gray OPTIONAL COLORS <input type="checkbox"/> CS Custom color <input type="checkbox"/> RAL RAL# color (Refer to color chart)
		18W	2619	<input checked="" type="checkbox"/> SR135-L1W18r0-R2		
		34W	4170	<input type="checkbox"/> SR135-L1W30r1-R2		
	69W	7994	<input type="checkbox"/> SR135-L2W30r1-R2			
	Type III	18W	2760	<input type="checkbox"/> SR135-L1W18r0-R3		
38W	4395	<input type="checkbox"/> SR135-L1W30r1-R3				
76W	8697	<input type="checkbox"/> SR135-L2W30r1-R3				
Type IV	18W	2822	<input type="checkbox"/> SR135-L1W18r0-R4			
38W	4493	<input type="checkbox"/> SR135-L1W30r1-R4				
75W	8482	<input type="checkbox"/> SR135-L2W30r1-R4				
Type V	18W	2665	<input type="checkbox"/> SR135-L1W18r0-R5			
36W	4243	<input type="checkbox"/> SR135-L1W30r1-R5				
69W	7937	<input type="checkbox"/> SR135-L2W30r1-R5				

NOTE: Above wattage values are based on 277V, tested at 25°C/77°F ambient temperature.
Wattage may vary by approx. +/- 10% for other voltages or changes in ambient temperature.
Lumens output will remain constant.

OPTIONS

ELECTRICAL	MOUNTING	ACCESSORIES
<input type="checkbox"/> FS Fuse ² <input type="checkbox"/> PH Photocell ² <input type="checkbox"/> SP Surge protector 10KV Alternate CCT °K LED <input type="checkbox"/> K2A Amber LED for turtle sensitive areas. Wavelengths: 584.5 nm to 597 nm <input type="checkbox"/> K35 3500K CCT 80 CRI (Multiplier 0.98) <input type="checkbox"/> K5 5000K CCT 80 CRI (Multiplier 1.01)	<input type="checkbox"/> ACA Pole mount attachment with 45° support <input type="checkbox"/> ACW Wall mount attachment with 45° support <input type="checkbox"/> APA Pole mount shepherd arm attachment <input checked="" type="checkbox"/> APC Pole mount straight arm attachment <input type="checkbox"/> APS Post top shepherd arm attachment <input type="checkbox"/> CAT2 Catenary suspension attachment <input type="checkbox"/> W Wall mount shepherd arm attachment <input type="checkbox"/> T Wall mount straight arm attachment <input type="checkbox"/> STM 36" Field-cutttable stem with 45° swivel (other lengths available, please specify)	<input type="checkbox"/> SPG Silver braided power cord with adjustable suspension cable, 36" in length (other lengths on request) <input type="checkbox"/> SC Safety cable extends 18" over mounting plate (with stem mounting only) <input type="checkbox"/> SSC Stabilizer cables

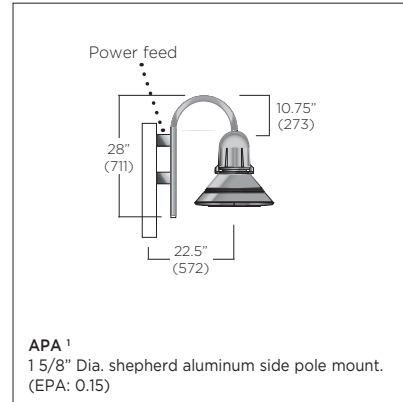
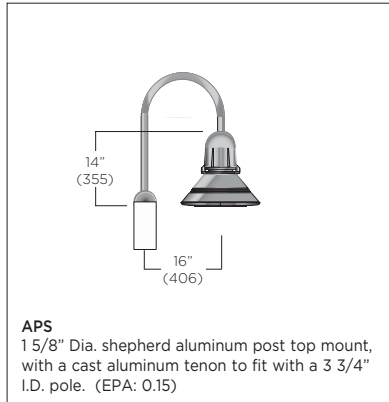
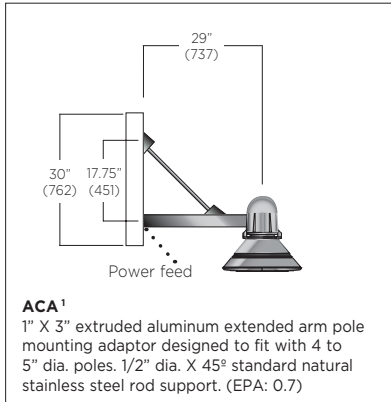
NOTES

- 1- If no voltage is specified, luminaires are factory prewired by default for 120V. For other voltages, please specify with catalog number, or consult factory.
- 2- Fuse and photocell options are normally installed with poles when specified with Luminis luminaires. (Except for other types of mounting.)

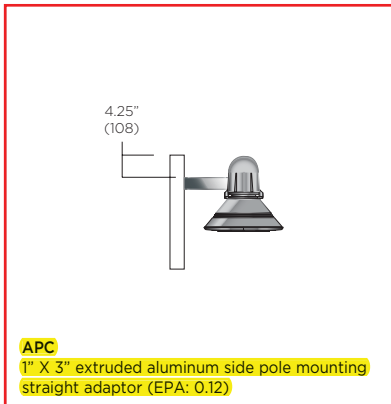


SR135 SERIES
SCIROCCO - LED

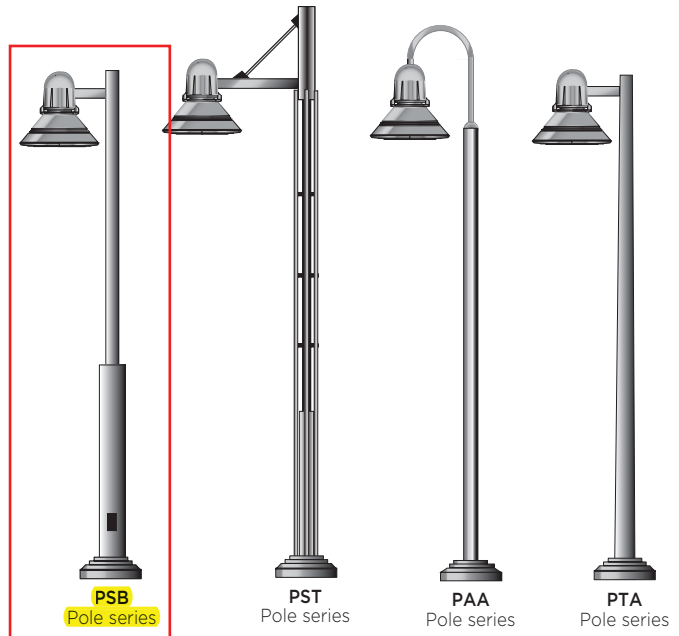
POLE MOUNT



NOTE 1: PST Pole with ACA and APA attachments require a 30" (762) tenon extension over pole nominal height. Factory installed.



POLES



MATCHING POLE SELECTION

Ø 4"	Ø 5"	Ø 4"	Tapered Pole	Ø 4"	Height
PAA410	PAA510	PST10	-----	PSB10	10 Ft. (3 M)
PAA412	PAA512	PST12	-----	PSB12	12 Ft. (3,6 M)
PAA414	PAA514	PST14	-----	PSB14	14 Ft. (4,2 M)
PAA416	PAA516	PST16	PTA16	PSB16	16 Ft. (4,8 M)
PAA418	PAA518	-----	PTA18	PSB18	18 Ft. (5,5 M)
PAA420	PAA520	-----	PTA20	PSB20	20 Ft. (6,0 M)
-----	-----	-----	PTA25	-----	25 Ft. (7,6 M)

For additional pole details, please refer to separate pole specification sheet.
Ø 4"= 100mm Ø5"= 127mm





SR135 SERIES
SCIROCCO - LED

WALL MOUNT

ACW
1" X 3" extruded aluminum extended arm wall mounting adaptor with cast aluminum covers and galvanized steel mounting plates. 1/2" dia. X 45° standard natural stainless steel rod support.

Power feed

27" (686)

Mounting

3" (76)

4.625" (118)

17.75" (451)

Power feed

W
1 5/8" Dia. shepherd aluminum arm wall mount, with a cast aluminum wall cover and galvanized steel mounting plate.

13.5" (343)

14" (356)

18.25" (463)

Mounting

3" (76)

4.625" (118)

Power feed

T
1" X 3" extruded aluminum wall mounting straight adaptor with cast aluminum cover and galvanized steel mounting plate.

14.5" (368)

Mounting

3" (76)

4.625" (118)

Power feed

CATENARY SUSPENSION

CAT2
Cast aluminum catenary junction box with (2) 1/2" sealed connectors for power cable. Ready to accept 1/4" stainless steel suspension cable. (Structural design, power cable, stainless steel catenary cable, cable fittings, and fittings for mounting to support structure provided by others.)

11.85" (301)

1/4" dia aircraft cable

Power cable in

Catenary junction box

19.84" (504)

CEILING PENDANT MOUNT

STM
36" lg. (914) stem with 45° swivel ceiling mount Ø 5/8" (16) aluminum suspension stem. Luminaire top swivel adaptor allows to cut stem to length on site. (Mounts over a standard 4" octagonal box with 3 1/2" C/C holes).

SPG
4/18 Silver braided power cable, with stainless steel adjustable cable. Standard 36" lg. (914). Other lengths available on request.

SSC
Set of three stabilizer cables

36" (915)

STEM

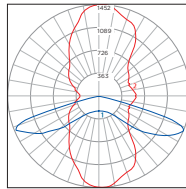




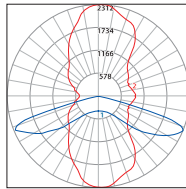
SR135 SERIES
SCIROCCO - LED

TYPICAL PHOTOMETRY SUMMARY

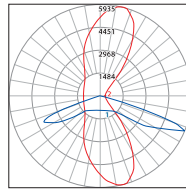
TYPE II



SR135-L1W18r0-R2
Total Lumens: 2619 Lms
Total Input Watts: 18.5W
Efficacy: 141.57 Lms/W
BUG Rating: B2-U0-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1452 @ 85°H/67.5°V

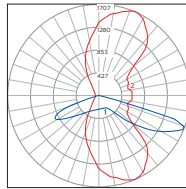


SR135-L1W30r1-R2
Total Lumens: 4170 Lms
Total Input Watts: 34.33W
Efficacy: 121.47 Lms/W
BUG Rating: B2-U0-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
2312 @ 85°H/67.5°V

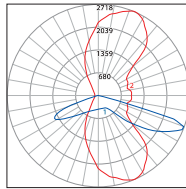


SR135-L2W30r1-R2
Total Lumens: 7994 Lms
Total Input Watts: 68.66W
Efficacy: 116.43 Lms/W
BUG Rating: B3-U0-G3
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
5935 @ 77.5°H/67.5°V

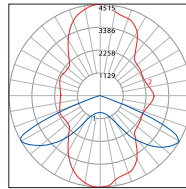
TYPE III



SR135-L1W18r0-R3
Total Lumens: 2760 Lms
Total Input Watts: 18.5W
Efficacy: 149.19 Lms/W
BUG Rating: B1-U0-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1707 @ 65°H/70°V

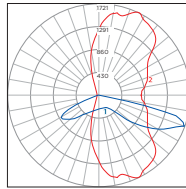


SR135-L1W30r1-R3
Total Lumens: 4395 Lms
Total Input Watts: 38.3W
Efficacy: 114.75 Lms/W
BUG Rating: B2-U0-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
2718 @ 65°H/70°V

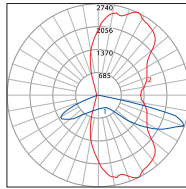


SR135-L2W30r1-R3
Total Lumens: 8697 Lms
Total Input Watts: 75.59W
Efficacy: 115.05 Lms/W
BUG Rating: B3-U0-G3
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
4515 @ 90°H/60°V

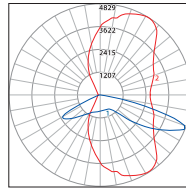
TYPE IV



SR135-L1W18r0-R4
Total Lumens: 2822 Lms
Total Input Watts: 18.5W
Efficacy: 152.54 Lms/W
BUG Rating: B1-U1-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1720 @ 65°H/70°V

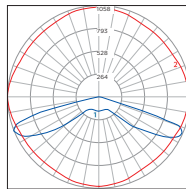


SR135-L1W30r1-R4
Total Lumens: 4493 Lms
Total Input Watts: 38.25W
Efficacy: 117.46 Lms/W
BUG Rating: B2-U1-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
2740 @ 65°H/70°V

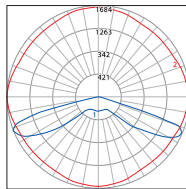


SR135-L2W30r1-R4
Total Lumens: 8482 Lms
Total Input Watts: 75.21W
Efficacy: 112.78 Lms/W
BUG Rating: B2-U1-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
4829 @ 57.5°H/67.5°V

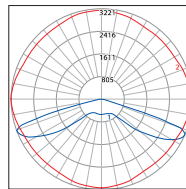
TYPE V



SR135-L1W18r0-R5
Total Lumens: 2665 Lms
Total Input Watts: 18.5W
Efficacy: 144.05 Lms/W
BUG Rating: B2-U0-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1057 @ 180°H/67.5°V



SR135-L1W30r1-R5
Total Lumens: 4243 Lms
Total Input Watts: 35.71W
Efficacy: 118.82 Lms/W
BUG Rating: B3-U0-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1684 @ 67.5°V



SR135-L2W30r1-R5
Total Lumens: 7937 Lms
Total Input Watts: 68.67W
Efficacy: 115.58 Lms/W
BUG Rating: B3-U0-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
3221 @ 65°V

Please visit our web site www.luminis.com for complete I.E.S formatted download data.
All published photometric data are executed and certified by an independent testing laboratory.





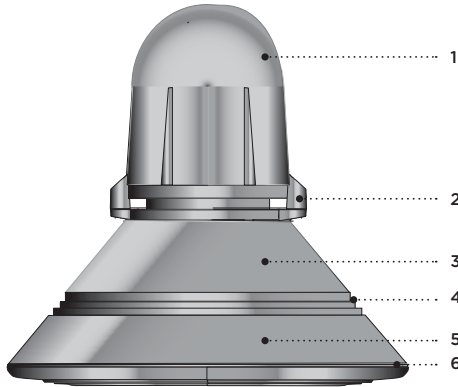
LUMINIS®

SR135 SERIES
SCIROCCO - LED

TYPE: _____ QUANTITY: _____ PROJECT: _____

CATALOG NUMBER:

FIXTURE WATTAGE VOLTAGE FINISH OPTION OPTION OPTION OPTION



Full cutoff luminaire

- 1- Cast aluminum driver housing.
- 2- Housing/shade assembly hinge mechanism.
- 3- Sealed and isolated LED compartment.
- 4- Cast aluminum shade.
- 5- LED optical control silicone lenses.
- 6- Hinged cast aluminum lens frame.

SR135-APC



MATERIALS

Scirocco is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%.
COB LED is assembled on a thick pad housing chamber designed with a heat sink pattern to optimize heat dissipation and luminaire efficacy. The power supply is enclosed in an isolated chamber allowing quick access for electrical maintenance without disturbing the optical chamber.
COB LED is removable and replaceable for ease of maintenance or lighting upgrade.

ELECTRICAL

LED

POWER SUPPLY Standard driver is 0-10V dimming-ready (dims to 10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -30°C/-22°F to 60°C/140°F, output over voltage protection, output over current protection and output short circuit protection with auto-recovery.

LED

Type II, III, IV or V light distribution via high performance optical lenses. Standard 4000K/80CRI. Optional 3500K and 5000K.

LIFE

125,000hrs (L₇₀B₅₀) based on LM-80 report for lumen maintenance.

FINISH

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

MOUNTING

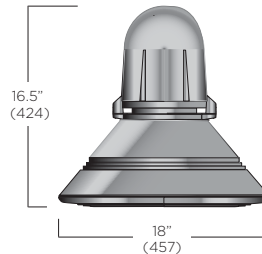
Maximum weight: 31lbs (14.1kg)

Scirocco is a modular luminaire concept offering a selection of mounting arrangements for various architectural requirements.

Pole, wall or suspended attachments are offered with high quality components to meet multiple installation conditions.

CERTIFICATION

Tested to UL1598 and CSA22.2 #250. ETL listed for wet location.
Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C/77°F. Lumen depreciation in accordance with IESNA LM80 standards.
Rated IP65.




EPA: 0.68



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SR135 SERIES SCIROCCO - LED

LUMINAIRE SELECTION

MODEL#	LED LIGHT SELECTION (4000K/80CRI)	VOLTAGE ¹	FINISH																																												
 <p>SR135</p>	<table border="1"> <thead> <tr> <th></th> <th>INPUT WATTS</th> <th>DELIVERED LUMENS</th> <th>MODEL</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Type II</td> <td>18W</td> <td>2619</td> <td><input checked="" type="checkbox"/> SR135-L1W18r0-R2</td> </tr> <tr> <td>34W</td> <td>4170</td> <td><input type="checkbox"/> SR135-L1W30r1-R2</td> </tr> <tr> <td>69W</td> <td>7994</td> <td><input type="checkbox"/> SR135-L2W30r1-R2</td> </tr> <tr> <td rowspan="3">Type III</td> <td>18W</td> <td>2760</td> <td><input type="checkbox"/> SR135-L1W18r0-R3</td> </tr> <tr> <td>38W</td> <td>4395</td> <td><input type="checkbox"/> SR135-L1W30r1-R3</td> </tr> <tr> <td>76W</td> <td>8697</td> <td><input type="checkbox"/> SR135-L2W30r1-R3</td> </tr> <tr> <td rowspan="3">Type IV</td> <td>18W</td> <td>2822</td> <td><input type="checkbox"/> SR135-L1W18r0-R4</td> </tr> <tr> <td>38W</td> <td>4493</td> <td><input type="checkbox"/> SR135-L1W30r1-R4</td> </tr> <tr> <td>75W</td> <td>8482</td> <td><input type="checkbox"/> SR135-L2W30r1-R4</td> </tr> <tr> <td rowspan="3">Type V</td> <td>18W</td> <td>2665</td> <td><input type="checkbox"/> SR135-L1W18r0-R5</td> </tr> <tr> <td>36W</td> <td>4243</td> <td><input type="checkbox"/> SR135-L1W30r1-R5</td> </tr> <tr> <td>69W</td> <td>7937</td> <td><input type="checkbox"/> SR135-L2W30r1-R5</td> </tr> </tbody> </table>		INPUT WATTS	DELIVERED LUMENS	MODEL	Type II	18W	2619	<input checked="" type="checkbox"/> SR135-L1W18r0-R2	34W	4170	<input type="checkbox"/> SR135-L1W30r1-R2	69W	7994	<input type="checkbox"/> SR135-L2W30r1-R2	Type III	18W	2760	<input type="checkbox"/> SR135-L1W18r0-R3	38W	4395	<input type="checkbox"/> SR135-L1W30r1-R3	76W	8697	<input type="checkbox"/> SR135-L2W30r1-R3	Type IV	18W	2822	<input type="checkbox"/> SR135-L1W18r0-R4	38W	4493	<input type="checkbox"/> SR135-L1W30r1-R4	75W	8482	<input type="checkbox"/> SR135-L2W30r1-R4	Type V	18W	2665	<input type="checkbox"/> SR135-L1W18r0-R5	36W	4243	<input type="checkbox"/> SR135-L1W30r1-R5	69W	7937	<input type="checkbox"/> SR135-L2W30r1-R5	<input checked="" type="checkbox"/> 120V <input type="checkbox"/> 277V Optional <input type="checkbox"/> 347V <input type="checkbox"/> 480V	STANDARD COLORS <input type="checkbox"/> WHT Snow white <input type="checkbox"/> BKT Jet black <input type="checkbox"/> BZT Bronze <input type="checkbox"/> MST Matte silver <input type="checkbox"/> GRT Titanium gray <input type="checkbox"/> DGT Gun metal <input type="checkbox"/> CHT Champagne <input type="checkbox"/> SGT Steel Gray OPTIONAL COLORS <input type="checkbox"/> CS Custom color <input type="checkbox"/> RAL RAL# color (Refer to color chart)
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NOTE: Above wattage values are based on 277V, tested at 25°C/77°F ambient temperature.
Wattage may vary by approx. +/- 10% for other voltages or changes in ambient temperature.
Lumens output will remain constant.

OPTIONS

ELECTRICAL	MOUNTING	ACCESSORIES
<input type="checkbox"/> FS Fuse ² <input type="checkbox"/> PH Photocell ² <input type="checkbox"/> SP Surge protector 10KV Alternate CCT °K LED <input type="checkbox"/> K2A Amber LED for turtle sensitive areas. Wavelengths: 584.5 nm to 597 nm <input type="checkbox"/> K35 3500K CCT 80 CRI (Multiplier 0.98) <input type="checkbox"/> K5 5000K CCT 80 CRI (Multiplier 1.01)	<input type="checkbox"/> ACA Pole mount attachment with 45° support <input type="checkbox"/> ACW Wall mount attachment with 45° support <input type="checkbox"/> APA Pole mount shepherd arm attachment <input type="checkbox"/> APC Pole mount straight arm attachment <input type="checkbox"/> APS Post top shepherd arm attachment <input type="checkbox"/> CAT2 Catenary suspension attachment <input type="checkbox"/> W Wall mount shepherd arm attachment <input checked="" type="checkbox"/> T Wall mount straight arm attachment <input type="checkbox"/> STM 36" Field-cutable stem with 45° swivel (other lengths available, please specify)	<input type="checkbox"/> SPG Silver braided power cord with adjustable suspension cable. 36" in length (other lengths on request) <input type="checkbox"/> SC Safety cable extends 18" over mounting plate (with stem mounting only) <input type="checkbox"/> SSC Stabilizer cables

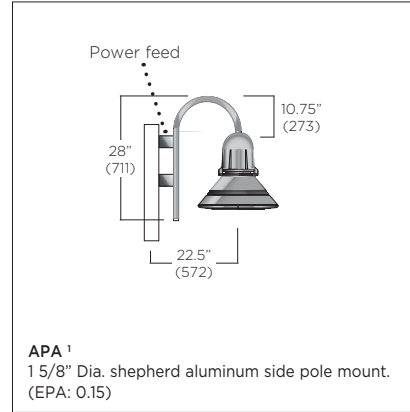
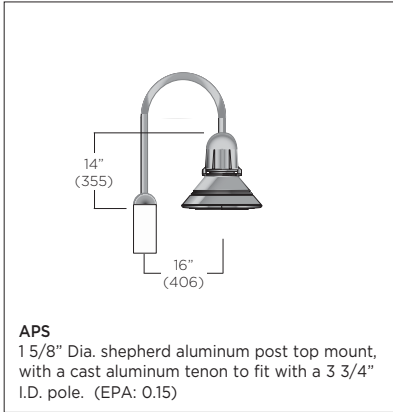
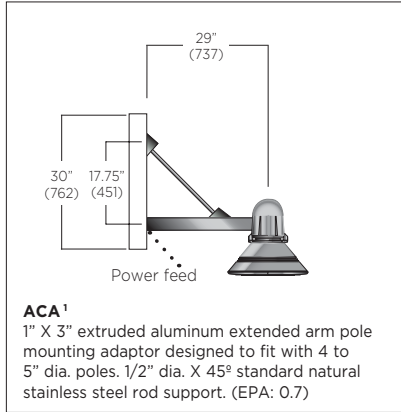
NOTES

- 1- If no voltage is specified, luminaires are factory prewired by default for 120V. For other voltages, please specify with catalog number, or consult factory.
- 2- Fuse and photocell options are normally installed with poles when specified with Luminis luminaires. (Except for other types of mounting.)

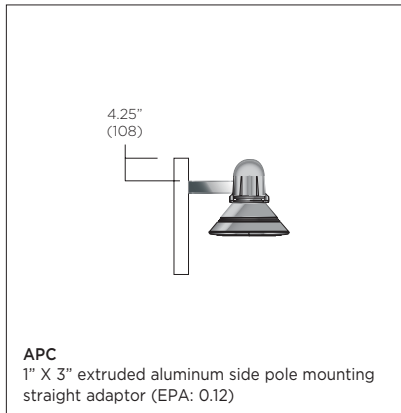


SR135 SERIES
SCIROCCO - LED

POLE MOUNT



NOTE 1: PST Pole with ACA and APA attachments require a 30" (762) tenon extension over pole nominal height. Factory installed.



POLES



MATCHING POLE SELECTION

Ø 4"	Ø 5"	Ø 4"	Tapered Pole	Ø 4"	Height
PAA410	PAA510	PST10	-----	PSB10	10 Ft. (3 M)
PAA412	PAA512	PST12	-----	PSB12	12 Ft. (3,6 M)
PAA414	PAA514	PST14	-----	PSB14	14 Ft. (4,2 M)
PAA416	PAA516	PST16	PTA16	PSB16	16 Ft. (4,8 M)
PAA418	PAA518	-----	PTA18	PSB18	18 Ft. (5,5 M)
PAA420	PAA520	-----	PTA20	PSB20	20 Ft. (6,0 M)
-----	-----	-----	PTA25	-----	25 Ft. (7,6 M)

For additional pole details, please refer to separate pole specification sheet.
Ø 4" = 100mm Ø5" = 127mm





SR135 SERIES
SCIROCCO - LED

WALL MOUNT

ACW
1" X 3" extruded aluminum extended arm wall mounting adaptor with cast aluminum covers and galvanized steel mounting plates. 1/2" dia. X 45° standard natural stainless steel rod support.

Mounting
3" (76)
4.625" (118)
17.75" (451)
Power feed

W
1 5/8" Dia. shepherd aluminum arm wall mount, with a cast aluminum wall cover and galvanized steel mounting plate.

Mounting
3" (76)
4.625" (118)
Power feed

T
1" X 3" extruded aluminum wall mounting straight adaptor with cast aluminum cover and galvanized steel mounting plate.

Mounting
3" (76)
4.625" (118)
Power feed

CATENARY SUSPENSION

CAT2
Cast aluminum catenary junction box with (2) 1/2" sealed connectors for power cable. Ready to accept 1/4" stainless steel suspension cable. (Structural design, power cable, stainless steel catenary cable, cable fittings, and fittings for mounting to support structure provided by others.)

CEILING PENDANT MOUNT

STM
36" lg. (914) stem with 45° swivel ceiling mount Ø 5/8" (16) aluminum suspension stem. Luminaire top swivel adaptor allows to cut stem to length on site. (Mounts over a standard 4" octagonal box with 3 1/2" C/C holes).

SPG
4/18 Silver braided power cable, with stainless steel adjustable cable. Standard 36" lg. (914). Other lengths available on request.

SSC
Set of three stabilizer cables

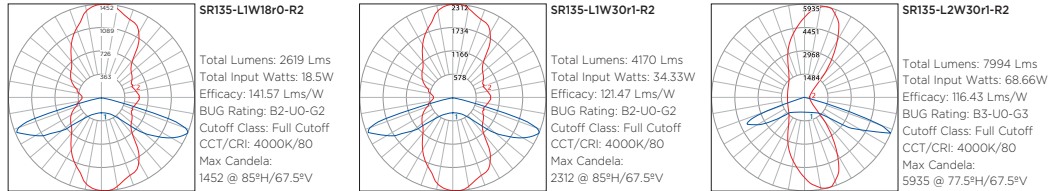




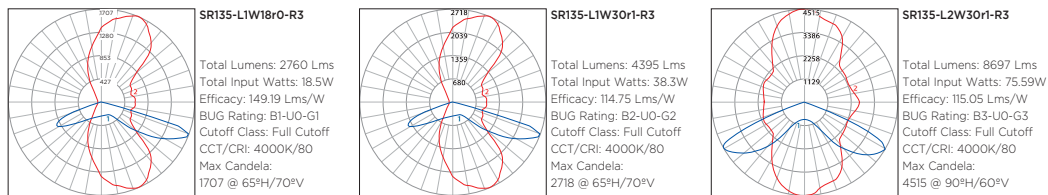
SR135 SERIES
SCIROCCO - LED

TYPICAL PHOTOMETRY SUMMARY

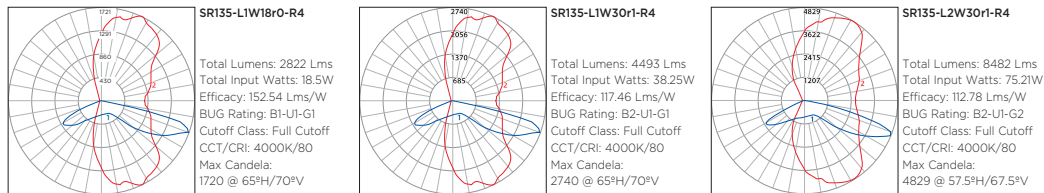
TYPE II



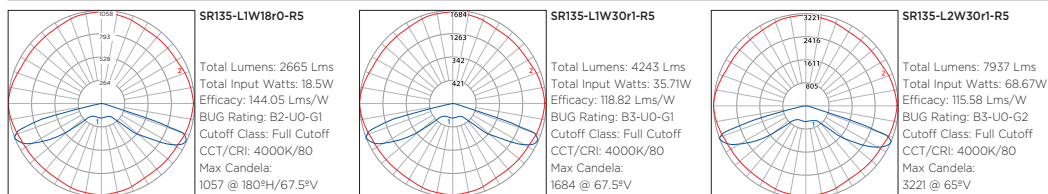
TYPE III



TYPE IV



TYPE V



Please visit our web site www.luminis.com for complete I.E.S formatted download data.
All published photometric data are executed and certified by an independent testing laboratory.





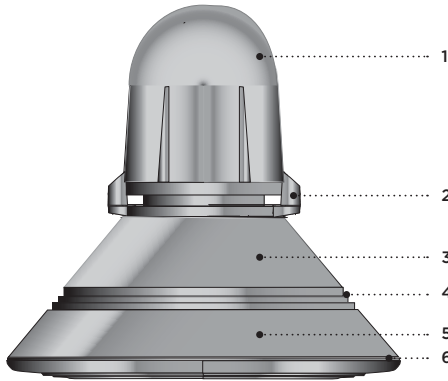
LUMINIS®

SR135 SERIES
SCIROCCO - LED

TYPE: _____ QUANTITY: _____ PROJECT: _____

CATALOG NUMBER:

FIXTURE WATTAGE VOLTAGE FINISH OPTION OPTION OPTION OPTION



Full cutoff luminaire

- 1- Cast aluminum driver housing.
- 2- Housing/shade assembly hinge mechanism.
- 3- Sealed and isolated LED compartment.
- 4- Cast aluminum shade.
- 5- LED optical control silicone lenses.
- 6- Hinged cast aluminum lens frame.

SR135-APC



MATERIALS

Scirocco is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%.
COB LED is assembled on a thick pad housing chamber designed with a heat sink pattern to optimize heat dissipation and luminaire efficacy. The power supply is enclosed in an isolated chamber allowing quick access for electrical maintenance without disturbing the optical chamber.
COB LED is removable and replaceable for ease of maintenance or lighting upgrade.

ELECTRICAL

LED

POWER SUPPLY Standard driver is 0-10V dimming-ready (dims to 10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -30°C/-22°F to 60°C/140°F, output over voltage protection, output over current protection and output short circuit protection with auto-recovery.

LED

Type II, III, IV or V light distribution via high performance optical lenses. Standard 4000K/80CRI. Optional 3500K and 5000K.

LIFE

125,000hrs (L₇₀B₅₀) based on LM-80 report for lumen maintenance.

FINISH

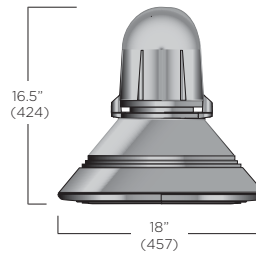
Five-stage preparation process including preheating of cast aluminum parts for air pocket extraction, and an environmentally friendly alloy sealant. Polyester powder coating is applied through an electrostatic process and oven cured for long term finish.

MOUNTING

Maximum weight: 31lbs (14.1kg)
Scirocco is a modular luminaire concept offering a selection of mounting arrangements for various architectural requirements.
Pole, wall or suspended attachments are offered with high quality components to meet multiple installation conditions.

CERTIFICATION

Tested to UL1598 and CSA22.2 #250. ETL listed for wet location.
Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C/77°F. Lumen depreciation in accordance with IESNA LM80 standards.
Rated IP65.




EPA: 0.68



Please visit our web site www.luminis.com for complete I.E.S. formatted download data.
Refer to page 5 for additional information.

SR135 SERIES
SCIROCCO - LED

LUMINAIRE SELECTION

MODEL#	LED LIGHT SELECTION (4000K/80CRI)			VOLTAGE ¹	FINISH	
 <input checked="" type="checkbox"/> SR135	Type II	INPUT WATTS	DELIVERED LUMENS	MODEL	<input checked="" type="checkbox"/> 120V <input type="checkbox"/> 277V Optional <input type="checkbox"/> 347V <input type="checkbox"/> 480V	STANDARD COLORS <input type="checkbox"/> WHT Snow white <input type="checkbox"/> BKT Jet black <input type="checkbox"/> BZT Bronze <input type="checkbox"/> MST Matte silver <input type="checkbox"/> GRT Titanium gray <input type="checkbox"/> DGT Gun metal <input type="checkbox"/> CHT Champagne <input type="checkbox"/> SGT Steel Gray OPTIONAL COLORS <input type="checkbox"/> CS Custom color <input type="checkbox"/> RAL RAL# color (Refer to color chart)
		18W	2619	<input type="checkbox"/> SR135-L1W18r0-R2		
		34W	4170	<input type="checkbox"/> SR135-L1W30r1-R2		
	69W	7994	<input checked="" type="checkbox"/> SR135-L2W30r1-R2			
	Type III	18W	2760	<input type="checkbox"/> SR135-L1W18r0-R3		
		38W	4395	<input type="checkbox"/> SR135-L1W30r1-R3		
		76W	8697	<input type="checkbox"/> SR135-L2W30r1-R3		
	Type IV	18W	2822	<input type="checkbox"/> SR135-L1W18r0-R4		
		38W	4493	<input type="checkbox"/> SR135-L1W30r1-R4		
		75W	8482	<input type="checkbox"/> SR135-L2W30r1-R4		
	Type V	18W	2665	<input type="checkbox"/> SR135-L1W18r0-R5		
		36W	4243	<input type="checkbox"/> SR135-L1W30r1-R5		
		69W	7937	<input type="checkbox"/> SR135-L2W30r1-R5		

NOTE: Above wattage values are based on 277V, tested at 25°C/77°F ambient temperature.
Wattage may vary by approx. +/- 10% for other voltages or changes in ambient temperature.
Lumens output will remain constant.

OPTIONS

ELECTRICAL	MOUNTING	ACCESSORIES
<input type="checkbox"/> FS Fuse ² <input type="checkbox"/> PH Photocell ² <input type="checkbox"/> SP Surge protector 10KV Alternate CCT °K LED <input type="checkbox"/> K2A Amber LED for turtle sensitive areas. Wavelengths: 584.5 nm to 597 nm <input type="checkbox"/> K35 3500K CCT 80 CRI (Multiplier 0.98) <input type="checkbox"/> K5 5000K CCT 80 CRI (Multiplier 1.01)	<input type="checkbox"/> ACA Pole mount attachment with 45° support <input type="checkbox"/> ACW Wall mount attachment with 45° support <input type="checkbox"/> APA Pole mount shepherd arm attachment <input checked="" type="checkbox"/> APC Pole mount straight arm attachment <input type="checkbox"/> APS Post top shepherd arm attachment <input type="checkbox"/> CAT2 Catenary suspension attachment <input type="checkbox"/> W Wall mount shepherd arm attachment <input type="checkbox"/> T Wall mount straight arm attachment <input type="checkbox"/> STM 36" Field-cutttable stem with 45° swivel (other lengths available, please specify)	<input type="checkbox"/> SPG Silver braided power cord with adjustable suspension cable. 36" in length (other lengths on request) <input type="checkbox"/> SC Safety cable extends 18" over mounting plate (with stem mounting only) <input type="checkbox"/> SSC Stabilizer cables

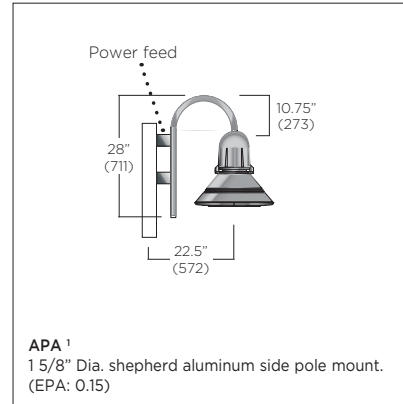
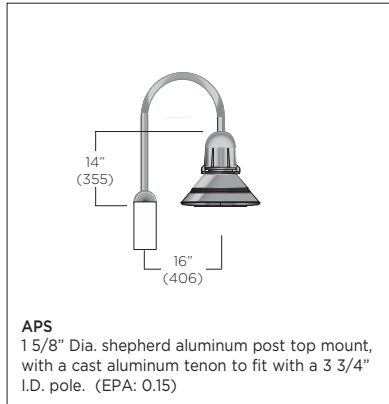
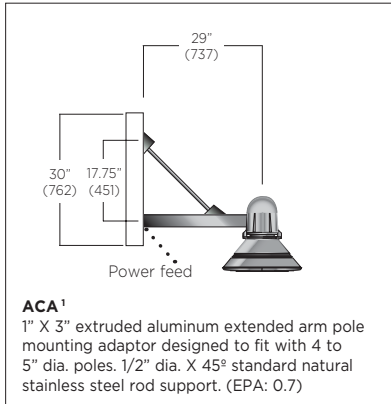
NOTES

- 1- If no voltage is specified, luminaires are factory prewired by default for 120V. For other voltages, please specify with catalog number, or consult factory.
- 2- Fuse and photocell options are normally installed with poles when specified with Luminis luminaires. (Except for other types of mounting.)

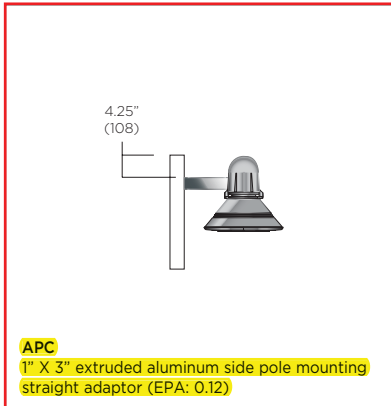


SR135 SERIES
SCIROCCO - LED

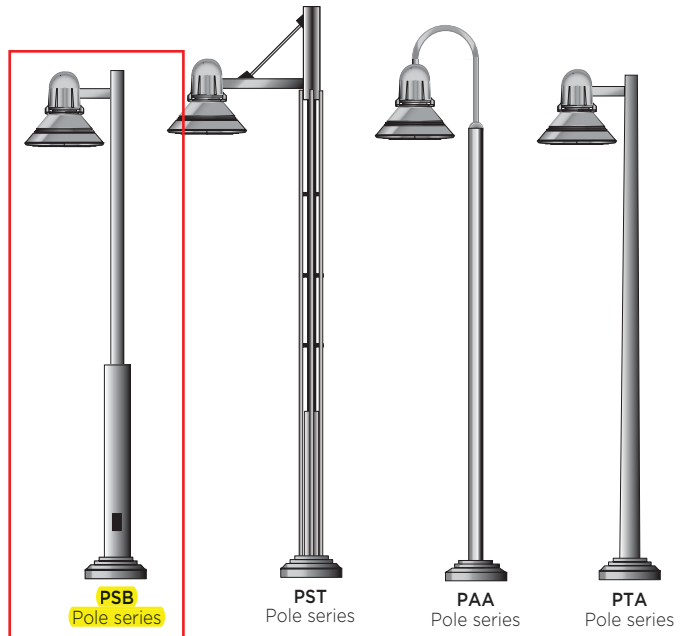
POLE MOUNT



NOTE 1: PST Pole with ACA and APA attachments require a 30" (762) tenon extension over pole nominal height. Factory installed.



POLES



MATCHING POLE SELECTION

Ø 4"	Ø 5"	Ø 4"	Tapered Pole	Ø 4"	Height
PAA410	PAA510	PST10	-----	PSB10	10 Ft. (3 M)
PAA412	PAA512	PST12	-----	PSB12	12 Ft. (3,6 M)
PAA414	PAA514	PST14	-----	PSB14	14 Ft. (4,2 M)
PAA416	PAA516	PST16	PTA16	PSB16	16 Ft. (4,8 M)
PAA418	PAA518	-----	PTA18	PSB18	18 Ft. (5,5 M)
PAA420	PAA520	-----	PTA20	PSB20	20 Ft. (6,0 M)
-----	-----	-----	PTA25	-----	25 Ft. (7,6 M)

For additional pole details, please refer to separate pole specification sheet.
Ø 4"= 100mm Ø5"= 127mm





SR135 SERIES
SCIROCCO - LED

WALL MOUNT

ACW
1" X 3" extruded aluminum extended arm wall mounting adaptor with cast aluminum covers and galvanized steel mounting plates. 1/2" dia. X 45° standard natural stainless steel rod support.

Power feed

27" (686)

Mounting

3" (76)

4.625" (118)

17.75" (451)

Power feed

W
1 5/8" Dia. shepherd aluminum arm wall mount, with a cast aluminum wall cover and galvanized steel mounting plate.

13.5" (343)

14" (356)

18.25" (463)

Mounting

3" (76)

4.625" (118)

Power feed

T
1" X 3" extruded aluminum wall mounting straight adaptor with cast aluminum cover and galvanized steel mounting plate.

14.5" (368)

Mounting

3" (76)

4.625" (118)

Power feed

CATENARY SUSPENSION

CAT2
Cast aluminum catenary junction box with (2) 1/2" sealed connectors for power cable. Ready to accept 1/4" stainless steel suspension cable. (Structural design, power cable, stainless steel catenary cable, cable fittings, and fittings for mounting to support structure provided by others.)

11.85" (301)

1/4" dia aircraft cable

Power cable in

Catenary junction box

19.84" (504)

CEILING PENDANT MOUNT

STM
36" lg. (914) stem with 45° swivel ceiling mount Ø 5/8" (16) aluminum suspension stem. Luminaire top swivel adaptor allows to cut stem to length on site. (Mounts over a standard 4" octagonal box with 3 1/2" C/C holes).

SPG
4/18 Silver braided power cable, with stainless steel adjustable cable. Standard 36" lg. (914). Other lengths available on request.

SSC
Set of three stabilizer cables

36" (915)

STEM

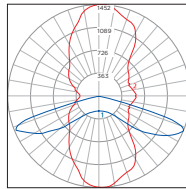




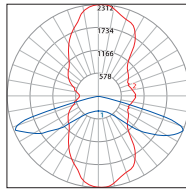
SR135 SERIES
SCIROCCO - LED

TYPICAL PHOTOMETRY SUMMARY

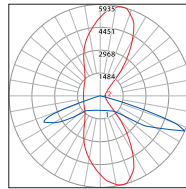
TYPE II



SR135-L1W18r0-R2
Total Lumens: 2619 Lms
Total Input Watts: 18.5W
Efficacy: 141.57 Lms/W
BUG Rating: B2-U0-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1452 @ 85°H/67.5°V

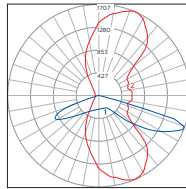


SR135-L1W30r1-R2
Total Lumens: 4170 Lms
Total Input Watts: 34.33W
Efficacy: 121.47 Lms/W
BUG Rating: B2-U0-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
2312 @ 85°H/67.5°V

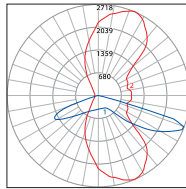


SR135-L2W30r1-R2
Total Lumens: 7994 Lms
Total Input Watts: 68.66W
Efficacy: 116.43 Lms/W
BUG Rating: B3-U0-G3
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
5935 @ 77.5°H/67.5°V

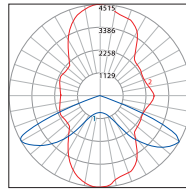
TYPE III



SR135-L1W18r0-R3
Total Lumens: 2760 Lms
Total Input Watts: 18.5W
Efficacy: 149.19 Lms/W
BUG Rating: B1-U0-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1707 @ 65°H/70°V

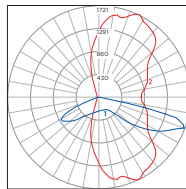


SR135-L1W30r1-R3
Total Lumens: 4395 Lms
Total Input Watts: 38.3W
Efficacy: 114.75 Lms/W
BUG Rating: B2-U0-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
2718 @ 65°H/70°V

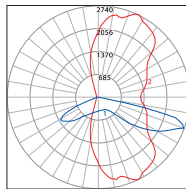


SR135-L2W30r1-R3
Total Lumens: 8697 Lms
Total Input Watts: 75.59W
Efficacy: 115.05 Lms/W
BUG Rating: B3-U0-G3
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
4515 @ 90°H/60°V

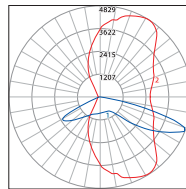
TYPE IV



SR135-L1W18r0-R4
Total Lumens: 2822 Lms
Total Input Watts: 18.5W
Efficacy: 152.54 Lms/W
BUG Rating: B1-U1-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1720 @ 65°H/70°V

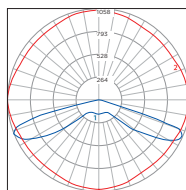


SR135-L1W30r1-R4
Total Lumens: 4493 Lms
Total Input Watts: 38.25W
Efficacy: 117.46 Lms/W
BUG Rating: B2-U1-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
2740 @ 65°H/70°V

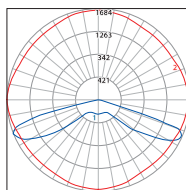


SR135-L2W30r1-R4
Total Lumens: 8482 Lms
Total Input Watts: 75.21W
Efficacy: 112.78 Lms/W
BUG Rating: B2-U1-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
4829 @ 57.5°H/67.5°V

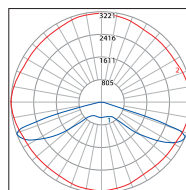
TYPE V



SR135-L1W18r0-R5
Total Lumens: 2665 Lms
Total Input Watts: 18.5W
Efficacy: 144.05 Lms/W
BUG Rating: B2-U0-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1057 @ 180°H/67.5°V



SR135-L1W30r1-R5
Total Lumens: 4243 Lms
Total Input Watts: 35.71W
Efficacy: 118.82 Lms/W
BUG Rating: B3-U0-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1684 @ 67.5°V



SR135-L2W30r1-R5
Total Lumens: 7937 Lms
Total Input Watts: 68.67W
Efficacy: 115.58 Lms/W
BUG Rating: B3-U0-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
3221 @ 65°V

Please visit our web site www.luminis.com for complete I.E.S formatted download data.
All published photometric data are executed and certified by an independent testing laboratory.

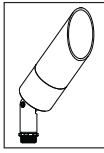




SESCO Lighting
737 Shotgun Road, Ft. Lauderdale, FL 33326
Tel: (954) 474-9888 Fax: (954) 474-9773

Description: **DS-LED-e**-***-***-A9-***-12-A-360SL /**
TR SERIES
Project: **211 OCEAN BOYNTON # 16-2949**
Notes: **ADVISE CONFIGURATION**

Type: **F**



DELTA STAR™

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

Example - DS - LED - e65 - SP - A7 - BZW - 12 - 11 - A - 360SL

Material
Blank - Aluminum
B - Brass
S - Stainless Steel

Series
DS - Delta Star™

Source
LED - 'e' Technology with Integral Dimming Driver (25W min. load when dimmed)
Designed for use with remote 12VAC B-K SSL™ transformers. Requires magnetic Low Voltage dimmer

LED Type
e64 - 7WLED/2.7K
e65 - 7WLED/3K
e66 - 7WLED/4K
e74 - 7WLED/Amber

Optics*
NSP - Narrow Spot (Red Indicator)
SP - Spot (Green Indicator)
MFL - Medium Flood (Yellow Indicator)
WFL - Wide Flood (Blue Indicator)

Adjust-e-Lume® Output Intensity (Choose factory setting)
A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1

Finish

Aluminum Finish			Brass Finish		Premium Finish		
Powder Coat Color	Satin	Wrinkle	Machined	MAC	ABP	CMG	RMG
Bronze	BZP	BZW	Polished	POL	AMG	CRI	SDS
Black	BLP	BLW	Mitique™	MIT	AQW	CRM	SMG
White (Gloss)	WHP	WHW	Stainless Finish		BCM	HUG	TXF
Aluminum	SAP	—	Machined	MAC	BGE	MDS	WCP
Verde	—	VER	Polished	POL	BPP	NBP	WIR
			Brushed	BRU <small>Interior use only.</small>	CAP	OCP	<small>Also available in RAL Finishes See submittal SUB-1439-00</small>

Lens Type
12 - Soft Focus Lens
13 - Rectilinear Lens

Shielding
11 - Honeycomb Baffle

Cap Style
A - 45°
B - 90°
D - 45° less Weep Hole (Interior Use Only)
E - 90° less Weep Hole (Interior Use Only)

Option
360SL - 360SL™ Rotational Knuckle Mounting System

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

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e64	2700K	7.0	80
e65	3000K	7.0	80
e66	4000K	7.0	80
e74	Amber (590nm)	7.0	~

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens(L70)
50,000
50,000
50,000
50,000

*OPTICAL DATA

Beam Type	Angle	e66 CBCP	Visual Indicator
Narrow Spot	13°	6889	Red Dot
Spot	15°	5225	Green Dot
Medium Flood	23°	1984	Yellow Dot
Wide Flood	31°	1300	Blue Dot

B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
 559.438.5800 • FAX 559.438.5900
 www.bklighting.com • info@bklighting.com

RELEASED
 03-01-16

DRAWING NUMBER
 SUB000930

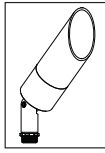
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SESCO Lighting
737 Shotgun Road, Ft. Lauderdale, FL 33326
Tel: (954) 474-9888 Fax: (954) 474-9773

Description: **DS-LED-e**-***-***-A9-***-12-A-360SL / TR SERIES**
Project: **211 OCEAN BOYNTON # 16-2949**
Notes:

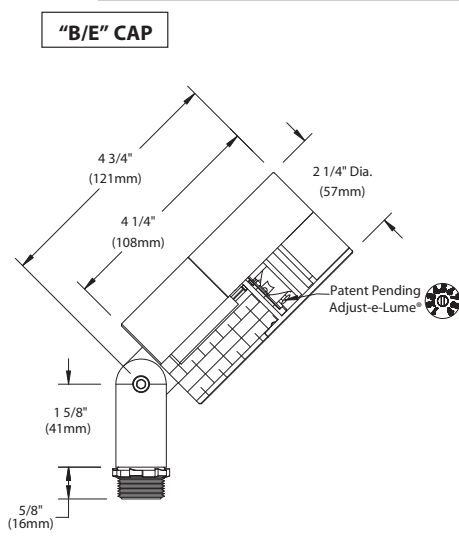
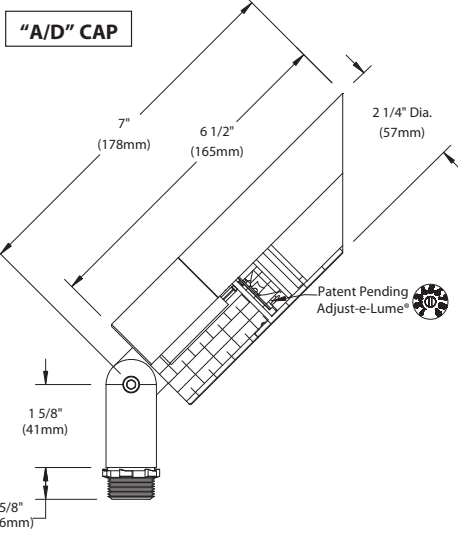
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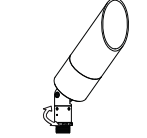
the power of dimming with **adjust-e-Lume®** TECHNOLOGY

DELTA STAR™

PROJECT:	
TYPE:	

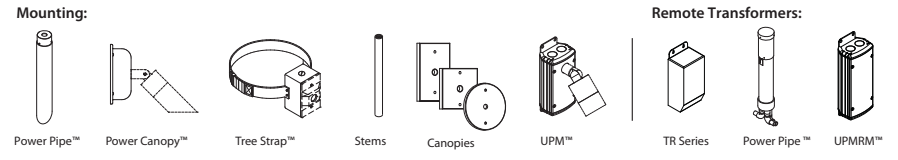


360 SL™



Horizontal Rotation
(Optional 360SL™ Knuckle)

Accessories (Configure separately)



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

SPECIFICATIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Warranty
5 year limited warranty.

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



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

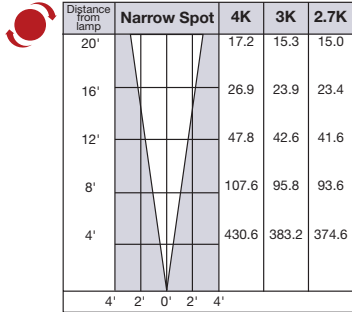


adjust-e-lume®
TECHNOLOGY

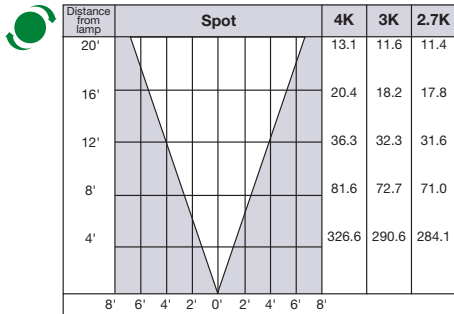
Select OptiKit™ for desired distribution

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

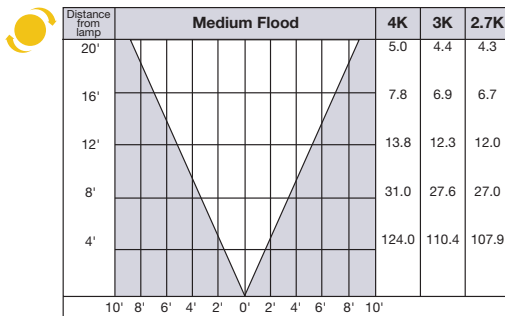
Set adjust-e-lume® Dial to desired output



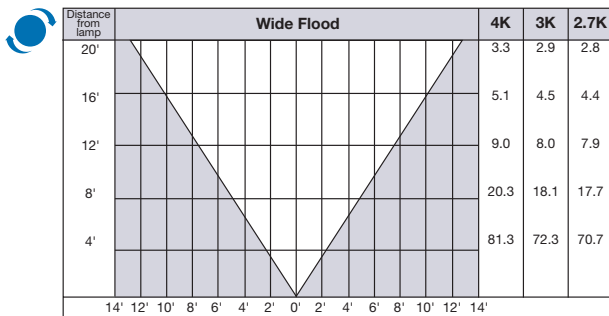
Note: If using No. 11 honeycomb baffle multiply footcandle values by .80



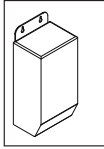
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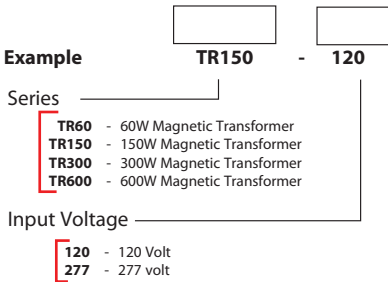


Magnetic Transformer

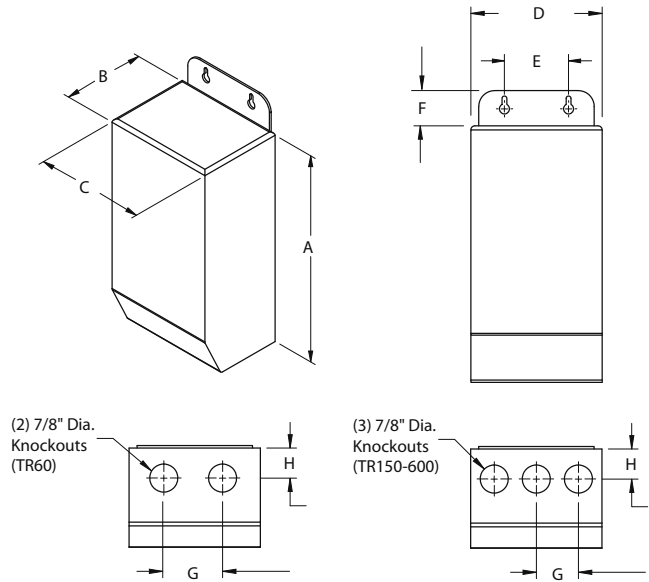
TR SERIES

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC



DIMENSIONS



TRANSFORMER DATA

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

Series	Input Voltage	Max. Load	Circuit Breaker	Weight	Height A	Depth B	C	D	E	F	G	H
TR60	120V	60W	8A	3.7 lbs.	7-1/2"	2-15/16"	3"	3-7/64"	1-1/2"	1-1/16"	1-1/2"	3/4"
TR150	120V	150W	25A	6 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR300	120V	300W	25A	7.13 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR600	120V	600W	25A	14.9 lbs.	9-13/32"	4-3/32"	4-19/32"	5-3/4"	4-5/8"	1-1/16"	1-1/2"	1-1/4"
TR60	277V	60W	8A	3.7 lbs.	7-1/2"	2-15/16"	3"	3-7/64"	1-1/2"	1-1/16"	1-1/2"	3/4"
TR150	277V	150W	25A	6 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR300	277V	300W	25A	7.13 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR600	277V	600W	25A	14.9 lbs.	9-13/32"	4-3/32"	4-19/32"	5-3/4"	4-5/8"	1-1/16"	1-1/2"	1-1/4"

SPECIFICATIONS

Housing
Stainless steel, NEMA Outdoor 3R rated enclosure. [2] (TR60) or [3] (TR150-600) bottom entry 7/8" knockouts provide access to wiring compartment. Riveted, hinged cover opens vertically from bottom to top for service access.

Transformer
Fully encapsulated, Class B insulated, low voltage magnetic transformer. 120VAC or 277VAC input. 12VAC output (fully loaded). 0.6A (120VAC) or 0.3A (277VAC) maximum no load input current. Manual thermal reset. Secondary circuit breaker. Enclosure temperature <65° C when fully loaded (in 40° C ambient).

For use with halogen and **ESSL** products. Fully dimmable utilizing magnetic low voltage dimmers. Consult fixture specification for dimming capability.

Output Wiring
See B-K Lighting Low Voltage Design Guide on reverse.

Warranty
Limited five year warranty.

Certification and Listings
Nema Type 3R Enclosure. Suitable for indoor and outdoor use. UL Listed to ANSI/UL Standard 1012.



B-K LIGHTING	40429 Brickyard Drive • Madera, CA 93636 • USA 559.438.5800 • FAX 559.438.5900 www.bklighting.com • info@bklighting.com	SUBMITTAL DATE	SUBMITTAL NUMBER
		7-30-13	TR-SERIES



Low Voltage Guide

Many B-K LIGHTING fixtures operate on 12 volts. Taking advantage of these energy-saving fixtures requires appropriate care in planning the electrical wiring system. To maintain expected lamp performance, we recommend the following procedures in sizing your low-voltage wiring system.

SIZING OF LOW VOLTAGE WIRING

1. Locate and plot fixtures on plan. Choose the lighting equipment necessary to create the desired lighting effects. Mark lamp wattage for each fixture location.
2. Identify potential transformer locations. The ideal locations are those which provide for the shortest possible low voltage distances (inconspicuous areas, behind rocks, shrubbery, etc., within the landscape). UPM, Power Pipe™, Power Pipe II™, or, if available, transformers integral in the fixture are good ways to hide the transformer and reduce voltage drop problems.
3. Add the total wattage for the proposed low voltage run. Measure the wire lengths from the transformer to the fixture locations. Find the distance to the "CENTER OF LOAD" of the low voltage run.

$$\text{CENTER OF LOAD} = \frac{\text{Distance from first to last fixture}}{(2) \text{ Two}} + \text{Distance from transformer to first fixture}$$

4. Using the B-K LIGHTING Wire Selection Table, select the wattage column which applies. Look down the column stopping at a distance, in feet, that is equal or greater than the "CENTER OF LOAD" distance. Look across to find the proper wire size for your layout.

Note: In the event of multiple runs from a given transformer, treat each run separately.

12-VOLT WIRE SELECTION TABLE

WIRE SIZE	TOTAL WATTAGE																	
	12	20	24	35	40	50	60	70	80	100	105	120	140	150	160	200	250	
12	178	106	89	60	53	42	35	30	26	21	20	17	15	13	—	—	—	—
10	283	169	141	96	85	67	56	48	42	33	32	28	24	22	19	17	13	13
8	450	269	225	154	135	107	90	77	67	54	51	45	38	36	31	27	21	21
6	715	428	357	245	214	171	143	122	107	85	81	71	61	57	49	42	34	34

CENTER OF LOAD WIRING DISTANCES IN FEET

The Wire Selection Table provided is based on a maximum allowable voltage drop of 5%. Electrical designs which allow greater than 5% voltage drop, reduce rated light output beyond acceptable levels.

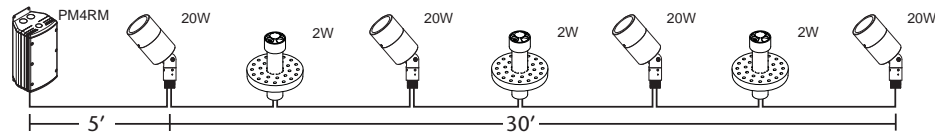
The importance of the proper wire selection is demonstrated below. Both examples have the same total watts and identical overall lengths of wire run, yet require different wire sizes, or multiple wire runs, to operate within the 5% maximum voltage drop B-K LIGHTING criteria.

EXAMPLE:

Total wattage:
(20w x 4) + (2w x 3) = 86 watts

CENTER OF LOAD:
 $\frac{(30)}{2} + 5' = 20'$

SINGLE WIRE RUN:
12 gauge

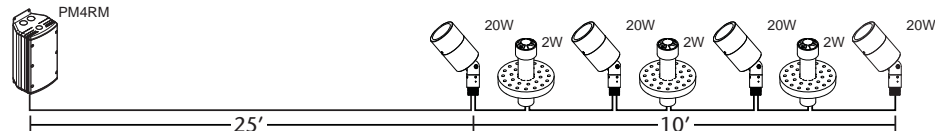


EXAMPLE:

Total wattage:
(20w x 4) + (2w x 3) = 86 watts

CENTER OF LOAD:
 $\frac{(10)}{2} + 25' = 30'$

SINGLE WIRE RUN:
10 gauge



TRANSFORMERS

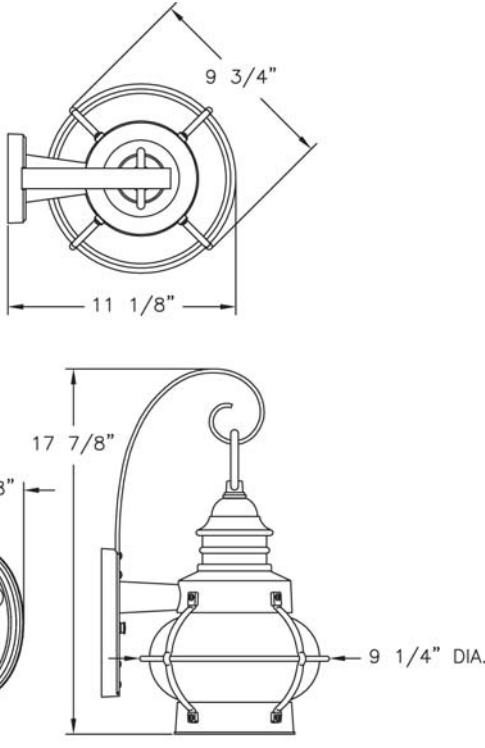
For areas which are far reaching from fixtures, running 120 volt power to each fixture location with individual transformers, such as TRSS75 or TRSS150, provides an excellent economic solution to voltage drop. These transformers can also be specified in the UPM, Power Pipe™, and Power Pipe II™ transformer housings.

Note: Installations should be in accordance with the National Electric Code and applicable local codes.



Small Bridgewater Wall Mount (B8608) Specification Sheet

Project Name:	Location:	MFG: Philips Lighting
Fixture Type:	Catalog No.:	Qty:



Ordering Guide

Example: B8608 ABS K D

Product Code	B8608	Small Bridgewater Wall Mount
Finish	ABS ACP ARD ASI BLK BRN BRZ FGN GRA IRN IRN RBZ SRT VBZ VCP VGN VTC WBZ WHT	Antique Brass Antique Copper Antique Red Antique Silver Black Brown Bronze Forest Green Granite Ironstone Ironstone Rustic Bronze Shadow Rust Verde Bronze Verde Copper Verde Vintage Copper Weathered Bronze White
Panel/Globe	K	Clear Seeded Glass Globe
Lamping	D	Medium Base

Specifications

CONSTRUCTION:

Cast aluminum wall bracket. Aluminum scroll. Cast aluminum loop and aluminum ring. Spun aluminum cap and neck assembly. Four (4) cast aluminum legs secure to roof & bottom. Cast aluminum roof & bottom.

FINISH:

Resilient TGIC thermoset polyester powdercoat paint is electrostatically applied to every fixture. Specially formulated for Philips Outdoor Lighting, it provides UV protection, and the highest temperature rating in the industry. In addition to the standard color choices shown, a spectrum of custom colors is available.

PANELS/LENS/GLOBE:

Clear Seeded Glass Globe available only.

LAMPING:

60W maximum A19 lamp per medium base socket. Lamp is not included. Higher wattages may be used only with glass panels installed.

ELECTRICAL ASSEMBLY:

Porcelain medium base socket with painted aluminum cover. Fixture is pre-wired with 18 AWG black, white, and ground wires. Lantern will be prewired and tested. All electrical components are ETL listed.

MOUNTING:

See template for dimensions & mounting instructions.

WARRANTY:

Lifetime limited warranty.

CERTIFICATIONS:

ETL Listed to U.S. safety standards for wet locations. cETL Listed to Canadian safety standards for wet locations.



Small Bridgewater Wall Mount (B8608) Specification Sheet

Project Name:	Location:	MFG: Philips Lighting
Fixture Type:	Catalog No.:	Qty:

Height:

17 7/8"

Width:

9 3/4"

Projection:

11 1/8"

Top to Outlet:

12 5/8"

Max. Weight:

10 lb.

Specification Sheet: LED A-Lamps

Lower the Cost and Improve the Environment of Your Home and Business

Revolution Lighting offers a wide variety of dimmable lamps for hospitality, commercial, multi-family and more. Our LED lighting solutions provide a better quality of light and significantly greater energy efficiency than incandescent, halogen and fluorescent lamps, reducing energy use by up to 80%. The lamps are mercury-free and 100% recyclable, making them the sustainable choice among lighting. They reduce long-term maintenance and operational costs as well with their superior lamp life and 5-year limited warranty.

APPLICATIONS

- Residential
- Restaurants
- Retail
- Hotels
- Commercial buildings
- Schools
- Hospitals
- Assisted living facilities

BEAM ANGLE



Revolution Lighting Light Distribution

CAN DECREASE ENERGY USAGE BY



vs. Similar Incandescent Lamps

WARRANTY



Our Industry-Leading 5-Year Limited Warranty Guarantees Unsurpassed Quality

PRODUCT BENEFITS

OPERATIONAL

- 3X greater lamp life than fluorescent
- 25,000-hour lamp life reduces long-term maintenance costs
- Instant on, no warm-up time
- High-temperature silicone gasket

SAFETY

- Lightweight aluminum housing
- Negligible light depreciation over time
- Superior light output
- Good heat dissipation

SUSTAINABILITY

- Lack of UV or IR minimizes concerns with fading or discoloration
- Mercury-free, allowing for non-hazardous disposal
- 100% recyclable



7W & 9.9W LED A-Lamp

ORDER LOGIC (Ex. AL-7-27-A19-D)

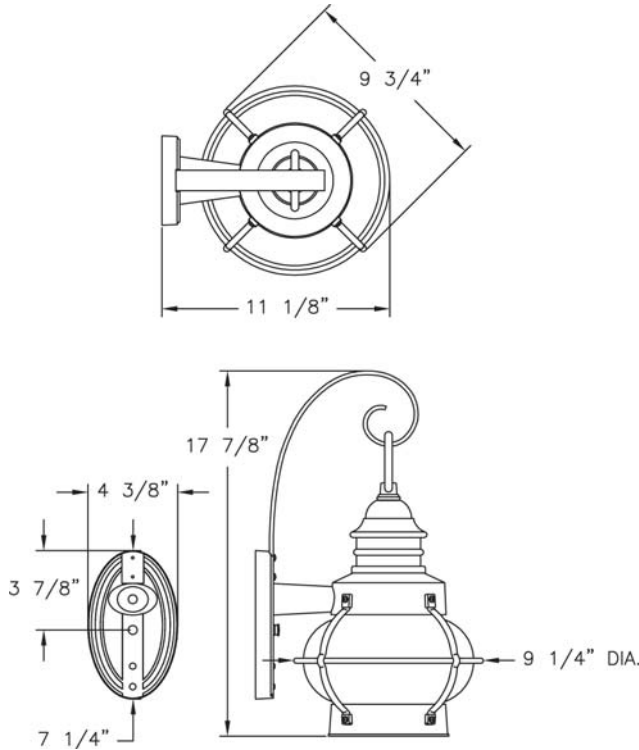
Product Description	Lamp Wattage	CCT (K Temp)	Size	Dimmability
→ AL = A-LAMP	7 = 7W → 9.9 = 9.9W	27 = 2700K 30 = 3000K → 40 = 4000K 50 = 5000K	→ A19 = A19	→ D = DIMMABLE





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Lamping	D	Medium Base

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WARRANTY:

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7W & 9.9W LED A-Lamp

ORDER LOGIC (Ex. AL-7-27-A19-D)

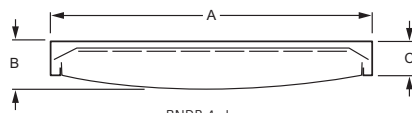
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AL = A-LAMP	7 = 7W 9.9 = 9.9W	27 = 2700K 30 = 3000K 40 = 4000K 50 = 5000K	A19 = A19	D = DIMMABLE





ROUND ARCHITECTURAL PENDANT		RNDP
CATALOG #:	RNDP-3-L67/830-FXA-S-**-38-*-ACF3P-**-DIM-120V	LED
PROJECT:	NOTES:	
<p>EXAMPLE RNDP - 4 - L136/835 - FXA - OPTIONS - DIM - UNV</p> <p style="text-align: center;"> SERIES NOMINAL DIAMETER LUMEN PACKAGE CRI & CCT LENS OPTIONS DRIVER VOLTAGE </p>		

CROSS SECTION



RNDP-4 shown

Fixture	A (Dia.)	B	C
2'	26-3/16"	6-11/16"	5-1/8"
3'	36-11/16"	7-3/16"	5-1/8"
4'	48-11/16"	7-11/16"	5-1/8"

FEATURES

- ▶ Round, suspended architectural fixture adds visual interest to a variety of applications.
- ▶ Sleek aircraft cable or pendant mount.
- ▶ Frosted, round acrylic lens provides soft, uniform light distribution.
- ▶ Lift-and-twist lens assembly allows for easy maintenance.
- ▶ LED technology provides high efficacy and energy efficiency.
- ▶ Rated for 50,000 hours at 85% lumen maintenance (L85).
- ▶ Minimum 82 CRI; 3000K, 3500K, 4000K CCT.
- ▶ This fixture is proudly made in the USA.

ORDERING INFORMATION

SERIES
RNDP Round Architectural Pendant

NOMINAL DIAMETER
 2' 2"
3 3"
 4 4"

LED PACKAGE

EXAMPLE: L136/835			AVERAGE SYSTEM WATTAGE
LUMEN PACKAGE	NOMINAL LUMENS	MINIMUM CRI & CCT	
2' UNIT			31
L25	2,500	830 = 82 CRI, 3000K	
3' UNIT			75
L67	6,700	835 = 82 CRI, 3500K 840 = 82 CRI, 4000K	
4' UNIT			125
L136	13,600		

Nominal lumen output based on 3500K CCT. Actual lumens may vary +/- 5%. See specific photometric tests. Additional LED lumen packages available, consult factory.

LENS
FXA Frosted convex acrylic lens

OPTIONS
EM/10W REMOTE¹ Remote mount emergency LED driver, maximum nominal 950 lumens module output in EM mode. See back for details.
(L__) Additional lower lumen packages available. Specify in increments of 100 nominal lumens.
Example: 12,500 nominal lumens = RNDP-4-L136/835-FXA-(L125)

OPTIONS (Continued)
CORD FOR SUSPENDED PRODUCT
 Units specified with ACF* options require cord. Please specify cord type using ordering example below.

EXAMPLE: S2438/W

CORD TYPE	LENGTH	# OF CONDUCTORS	WIRE SIZE	COLOR
S = Straight	24 = 24" 48 = 48" 96 = 96"	3 = 3 4 = 4 5 = 5	8 = 18-gauge	/B = Black /W = White

MOUNTING ACCESSORIES

EXAMPLE: ACF*4P/24		
PREFIX	FIXTURE SIZE	LENGTH
Adjustable Aircraft Cable		
ACF*	3P/ = 2' or 3' unit 4P/ = 4' unit	24 = 24" 48 = 48" 96 = 96"
Pendant Mount using stem (3/8" IPS) and canopy (ø5")		
SS*	3P/ = 2' or 3' unit 4P/ = 4' unit	Specify length in inches (4" minimum)

DRIVER
DRV Driver prewired for non-dimming applications
DIM Driver prewired for 0-10V low-voltage dimming applications

VOLTAGE
120 120V
277 277V
UNV 120-277V

¹ EM/10W REMOTE requires remote mounted LED driver, provided with remote mounting enclosure for installation in ceiling above fixture. Separate power and control wiring to remote box required. See back for details.



RNDP

ROUND ARCHITECTURAL PENDANT

LED

PHOTOMETRY

Catalog #: **RNDP-4-L136/835-FXA-DRV-UNV**

SPECIFICATIONS

Housing – .080" spun aluminum outer housing with C.R.S. back plate.

Shielding – Frosted acrylic lens, .125" thick.
Finish – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

Electrical – High quality mid-power LED boards. L85 at 50,000 hours. 25°C maximum ambient operating temperature.

Mounting – Suspended. Adjustable steel aircraft cable mounts to 1/4-20 stud provided by others; or use 3/8" IPS stem and canopy kit. See installation instructions for details.

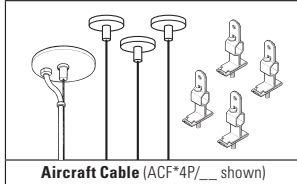
Labels – cCSAus certified as luminaire suitable for dry or damp locations.

Warranty – 5-year limited fixture warranty, see www.hew.com/warranty.

IMPORTANT:

Electrostatic sensitive unit. Observe precautions when handling.

STANDARD HARDWARE

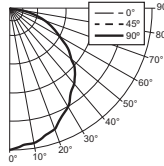


Fixtures are provided with:

- Adjustable length aircraft cables, must specify length in inches.
- White cord, No. 18 AWG.
- One 5" and two or three 2" canopies.
- T-bar clips with 1/4-20 stud.
- Hard ceiling anchor provided by others.
- See instruction sheet for more information.

TEST REPORT INFORMATION

- ▶ Test Report #: 18643.0
- ▶ Date: 01/23/15
- ▶ Lamp Type: LED
- ▶ **Rated Lumens: 13550**
- ▶ **Watts: 125.2**
- ▶ **Lumens Per Watt: 108.2**
- ▶ **CRI: 83**
- ▶ **CCT: 3375K**



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	4974.	4974.	4974.	458.0
5°	4802.	4798.	4794.	1302.8
15°	4600.	4594.	4596.	1925.4
25°	4163.	4158.	4161.	2277.0
35°	3629.	3622.	3627.	2457.3
45°	3178.	3172.	3176.	2182.8
55°	2433.	2429.	2437.	1657.8
65°	1675.	1666.	1677.	940.2
75°	888.	890.	890.	348.9
85°	316.	321.	321.	
90°	125.	127.	127.	

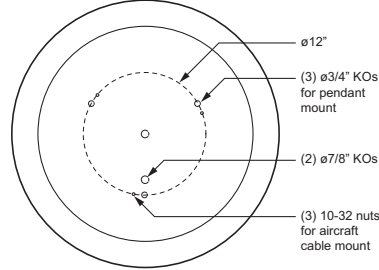
LUMEN SUMMARY

Zone	Lumens	% Fixture
0° - 30°	3686.	27.2
0° - 40°	5963.	44.0
0° - 60°	10603.	78.3
0° - 90°	13550.	100.0
Total Luminaire:		
0° - 180°	13550.	100.0

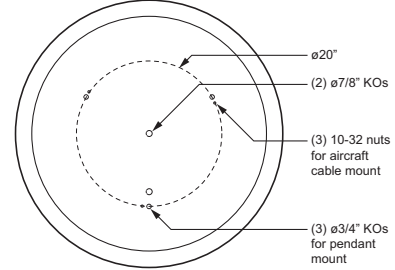
IES Spacing Criteria: End = 1.2
Across = 1.2
Diagonal = 1.2

FIXTURE DETAILS

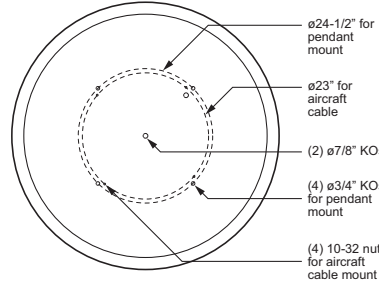
2' MOUNTING INFORMATION



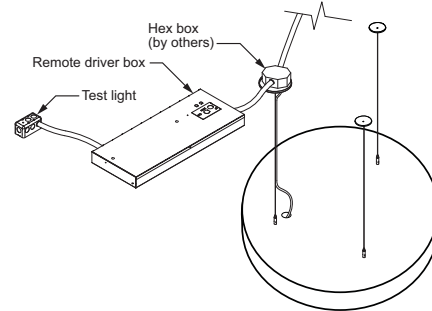
3' MOUNTING INFORMATION



4' MOUNTING INFORMATION



EM/10W REMOTE MOUNT DETAILS





ROUND ARCHITECTURAL PENDANT

CATALOG #: **RNDP-2-L25/830-FXA-S-**-38-*-ACF3P-**-DIM-120V**

PROJECT: _____ NOTES: _____

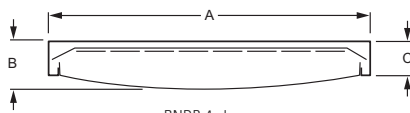
EXAMPLE **RNDP - 4 - L136/835 - FXA - OPTIONS - DIM - UNV**

SERIES NOMINAL DIAMETER LUMEN PACKAGE CRI & CCT LENS OPTIONS DRIVER VOLTAGE

RNDP

LED

CROSS SECTION



Fixture	A (Dia.)	B	C
2'	26-3/16"	6-11/16"	5-1/8"
3'	36-11/16"	7-3/16"	5-1/8"
4'	48-11/16"	7-11/16"	5-1/8"

ORDERING INFORMATION

SERIES

RNDP Round Architectural Pendant

NOMINAL DIAMETER

2' 2'
3' 3'
4' 4'

LED PACKAGE

EXAMPLE: L136/835			AVERAGE SYSTEM WATTAGE
LUMEN PACKAGE	NOMINAL LUMENS	MINIMUM CRI & CCT	
2' UNIT			31
L25	2,500	830 = 82 CRI, 3000K	
L67	6,700	835 = 82 CRI, 3500K 840 = 82 CRI, 4000K	
4' UNIT			125
L136	13,600		

Nominal lumen output based on 3500K CCT. Actual lumens may vary +/- 5%. See specific photometric tests. Additional LED lumen packages available, consult factory.

LENS

FXA Frosted convex acrylic lens

OPTIONS

EM/10W REMOTE¹ Remote mount emergency LED driver, maximum nominal 950 lumens module output in EM mode. See back for details.¹

(L__) Additional lower lumen packages available. Specify in increments of 100 nominal lumens.
Example: 12,500 nominal lumens = RNDP-4-L136/835-FXA-(L125)

OPTIONS (Continued)

CORD FOR SUSPENDED PRODUCT

Units specified with ACF* options require cord. Please specify cord type using ordering example below.

EXAMPLE: S2438/W				
CORD TYPE	LENGTH	# OF CONDUCTORS	WIRE SIZE	COLOR
S = Straight	24 = 24" 48 = 48" 96 = 96"	3 = 3 4 = 4 5 = 5	8 = 18-gauge	/B = Black /W = White

MOUNTING ACCESSORIES

EXAMPLE: ACF*4P/24		
PREFIX	FIXTURE SIZE	LENGTH
Adjustable Aircraft Cable		
ACF*	3P/ = 2' or 3' unit 4P/ = 4' unit	24 = 24" 48 = 48" 96 = 96"
Pendant Mount using stem (3/8" IPS) and canopy (ø5")		
SS*	3P/ = 2' or 3' unit 4P/ = 4' unit	Specify length in inches (4" minimum)

DRIVER

DRV Driver prewired for non-dimming applications
DIM Driver prewired for 0-10V low-voltage dimming applications

VOLTAGE

120 120V
277 277V
UNV 120-277V

FEATURES

- ▶ Round, suspended architectural fixture adds visual interest to a variety of applications.
- ▶ Sleek aircraft cable or pendant mount.
- ▶ Frosted, round acrylic lens provides soft, uniform light distribution.
- ▶ Lift-and-twist lens assembly allows for easy maintenance.
- ▶ LED technology provides high efficacy and energy efficiency.
- ▶ Rated for 50,000 hours at 85% lumen maintenance (L85).
- ▶ Minimum 82 CRI; 3000K, 3500K, 4000K CCT.
- ▶ This fixture is proudly made in the USA.

¹ EM/10W REMOTE requires remote mounted LED driver, provided with remote mounting enclosure for installation in ceiling above fixture. Separate power and control wiring to remote box required. See back for details.



RNDP

ROUND ARCHITECTURAL PENDANT

LED

PHOTOMETRY

Catalog #: **RNDP-4-L136/835-FXA-DRV-UNV**

SPECIFICATIONS

Housing – .080" spun aluminum outer housing with C.R.S. back plate.

Shielding – Frosted acrylic lens, .125" thick.
Finish – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

Electrical – High quality mid-power LED boards. L85 at 50,000 hours. 25°C maximum ambient operating temperature.

Mounting – Suspended. Adjustable steel aircraft cable mounts to 1/4-20 stud provided by others; or use 3/8" IPS stem and canopy kit. See installation instructions for details.

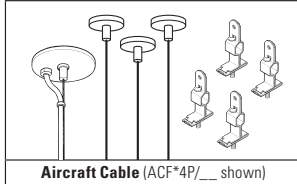
Labels – cCSAus certified as luminaire suitable for dry or damp locations.

Warranty – 5-year limited fixture warranty, see www.hew.com/warranty.

IMPORTANT:

Electrostatic sensitive unit. Observe precautions when handling.

STANDARD HARDWARE

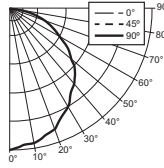


Fixtures are provided with:

- Adjustable length aircraft cables, must specify length in inches.
- White cord, No. 18 AWG.
- One 5" and two or three 2" canopies.
- T-bar clips with 1/4-20 stud.
- Hard ceiling anchor provided by others.
- See instruction sheet for more information.

TEST REPORT INFORMATION

- Test Report #: 18643.0
- Date: 01/23/15
- Lamp Type: LED
- Rated Lumens: 13550**
- Watts: 125.2**
- Lumens Per Watt: 108.2**
- CRI: 83**
- CCT: 3375K**



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	4974.	4974.	4974.	
5°	4802.	4798.	4794.	458.0
15°	4600.	4594.	4596.	1302.8
25°	4163.	4158.	4161.	1925.4
35°	3629.	3622.	3627.	2277.0
45°	3178.	3172.	3176.	2457.3
55°	2433.	2429.	2437.	2182.8
65°	1675.	1666.	1677.	1657.8
75°	888.	890.	890.	940.2
85°	316.	321.	321.	348.9
90°	125.	127.	127.	

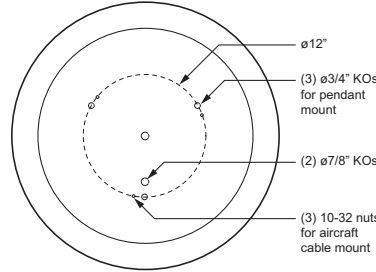
LUMEN SUMMARY

Zone	Lumens	% Fixture
0° - 30°	3686.	27.2
0° - 40°	5963.	44.0
0° - 60°	10603.	78.3
0° - 90°	13550.	100.0
Total Luminaire:		
0° - 180°	13550.	100.0

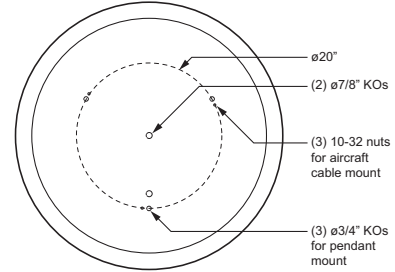
IES Spacing Criteria: End = 1.2
Across = 1.2
Diagonal = 1.2

FIXTURE DETAILS

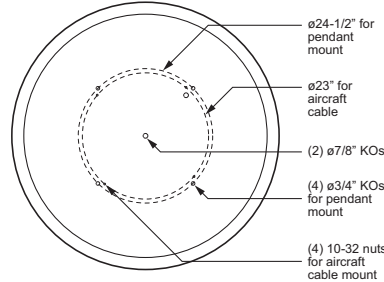
2' MOUNTING INFORMATION



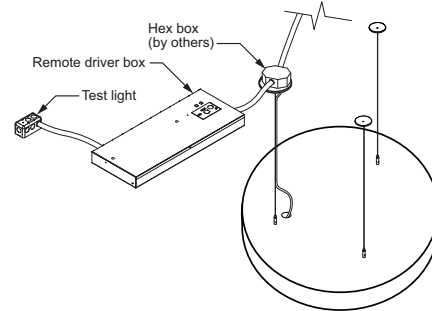
3' MOUNTING INFORMATION



4' MOUNTING INFORMATION



EM/10W REMOTE MOUNT DETAILS





6" ROUND LED DOWNLIGHT

L60

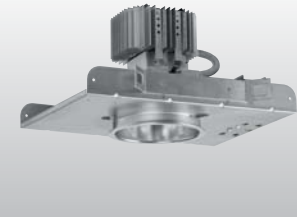
LED

CATALOG #: **L60-L11C/830-CS-M-DIM-120V** TYPE:

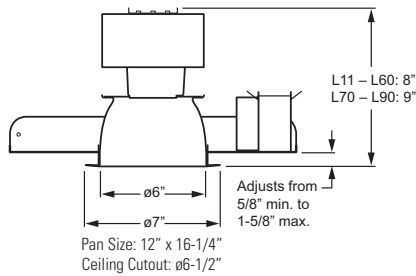
PROJECT: NOTES:

EXAMPLE **L60 - L40C/835 - CS/M - OPTIONS - DIM - 120**

SERIES LUMEN PACKAGE CRI & CCT REFLECTOR DIST. FINISH OPTIONS DRIVER VOLTAGE



CROSS SECTION



FEATURES

- ▶ Rated for >55,000 hours at 70% lumen maintenance (L70).
- ▶ Module lumens from 1100 to 9000.
- ▶ 2700K, 3000K, 3500K, or 4000K color temperatures, minimum 80 or 90 CRI.
- ▶ LED module and driver accessible from below ceiling plane for ease of maintenance (up to 4000 lumens).
- ▶ Optional system-integrated emergency LED driver available.
- ▶ Optional wet location under covered ceiling available when specified with ___/CAL or ___/CGS option.
- ▶ Finned, extruded aluminum, passive heat sink dissipates heat for superior thermal management.
- ▶ Integral pan throat field-adjusts to accommodate ceilings up to 1-5/8" thick.
- ▶ Self-flanged aluminum reflector offers maximum optical performance and provides crisp, clean installation without unsightly light leaks.
- ▶ Adjustable hanger brackets for bar hangers standard.
- ▶ Sturdy one-piece pan construction.
- ▶ This fixture is proudly made in the USA.

ORDERING INFORMATION

SERIES

➔ **L60** 6" Round LED Downlight

LED PACKAGE

See page 2 for delivered lumens and fixture performance data.

EXAMPLE: L40C/835				AVERAGE SYSTEM WATTAGE
LUMEN PACKAGE	SOURCE LUMENS	MINIMUM		
		CRI	CCT	
➔ L11C	1100			15
L15C	1500			19
L20C	2000			26
L30C	3000			36
L40C	4000	8 = 80	27 = 2700K	39
L50C ¹	5000	9 = 90	30 = 3000K	51
L60C ¹	6000		35 = 3500K	64
L70C ¹	7000		40 = 4000K	62
L80C ¹	8000			72
L90C ¹	9000			80

OPTIONS

- EM/12W** 12-watt emergency driver
- EM/7W** 7-watt emergency driver
- MWT** Matte white trim
- AC/CAL** Accent cone with clear acrylic lens (wide distribution only)
- MB/CAL** Micro-baffle with clear acrylic lens (wide distribution only)
- AC/CGS** Accent cone with clear glass lens (wide distribution only)
- MB/CGS** Micro-baffle with clear glass lens (wide distribution only)
- LAD** Acrylic luminous disk (CS reflector only)
- LADO** Acrylic luminous disk open (CS reflector only)
- LAR** Acrylic luminous ring (CS reflector only)
- SCA** Sloped Ceiling Adapter (specify degrees of slope in 5° increments, 5°-30°. SCA increases fixture height, see Information for details.)
- WET/CC** Wet Location, Covered Ceiling listed (when specified with ___/CAL or ___/CGS options).
- WW** Wall wash (wide distribution only; not available with trim, lens, or sloped adapter options)

DRIVER

Additional dimming drivers available, see [Technical Info](#).

- DRV** Driver prewired for non-dimming applications
- ➔ **DIM** Driver prewired for 0-10V low voltage dimming applications

VOLTAGE (Must specify)

- ➔ **120** 120V
- 277** 277V

REFLECTOR FINISH (Must specify)

- ➔ **CS** Clear semi-specular (standard)
- CG** Champagne gold
- GD** Gold
- PW** Pewter
- SG** Satin-glow
- SPC** Clear specular
- STR** Straw
- WH** Painted white reflector, textured (cannot be used with ___/CAL or ___/CGS)
- WT** Wheat

DISTRIBUTION (Must specify)

- W** Wide
- ➔ **M** Medium

¹ Available with DRV or DIM driver options only. Top access required for driver maintenance.





L60

LED

SPECIFICATIONS

Housing – 20-gauge die-formed galvanized steel pan/plaster frame with adjustable throat (5/8" to 1-5/8"). Extruded aluminum heat sink.
Reflector – Low-iridescent aluminum. Clear semi-specular (CS) finish standard.
Electrical – Prewired at factory for easy field installation. Integral thermal protector. High quality class 2 C.O.B LED array. Reported L70 >55,000 hours.
Mounting – Recessed.
Labels – cETLus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations. Suitable for wet location under covered ceiling when specified with AC/CAL or MB/CAL option.
Qualifications – RoHS compliant.
Warranty – 5-year limited warranty, see hew.com/warranty.

CANDLEPOWER MULTIPLIER

Catalog Number	Reflector Finish	Conversion Factor
SPC	Specular	1.02
CG	Champagne Gold	.96
GD	Gold	.93
PW	Pewter	.86
STR	Straw	.97
WT	Wheat	.88

COLOR TEMPERATURE MULTIPLIERS

CCT/CRI	Conversion Factor
2700K/80CRI	0.95
3000K/80CRI	0.96
3500K/80CRI	1.00
4000K/80CRI	1.01
2700K/90CRI	0.74
3000K/90CRI	0.85
3500K/90CRI	0.90
4000K/90CRI	0.91

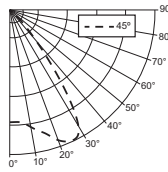
6" ROUND LED DOWNLIGHT

PHOTOMETRY - WIDE

Catalog #: **L60-L40C/835-CS/W-DIM-120**

TEST REPORT INFORMATION

- ▶ Test Report #: 1217929
- ▶ Date: 03/03/16
- ▶ Lamp Type: LED
- ▶ **Rated Lumens: 2953**
- ▶ **Watts: 39.2**
- ▶ **Lumens Per Watt: 75.4**
- ▶ **CRI: 82.1**
- ▶ **CCT: 3558K**



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle 45°	Zonal Lumens
0°	1804.	
5°	1811.	43.2
15°	2045.	235.5
25°	2311.	479.4
35°	1320.	512.6
45°	287.	158.8
55°	38.	30.0
65°	14.	8.1
75°	6.	3.9
85°	3.	2.2
90°	3.	

LUMEN SUMMARY

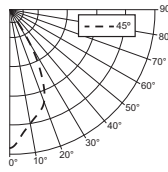
Zone	Lumens	% Fixture
0° - 40°	2638.	89.7
0° - 60°	2917.	99.2
0° - 90°	2942.	100.0
Total Luminaire:		
0 - 180	2942.	100.0
IES Spacing Criteria: 0-180 = 1.33 90-270 = 1.33		

PHOTOMETRY - MEDIUM

Catalog #: **L60-L40C/835-CS/M-DIM-120**

TEST REPORT INFORMATION

- ▶ Test Report #: 1217931
- ▶ Date: 03/04/16
- ▶ Lamp Type: LED
- ▶ **Rated Lumens: 2791**
- ▶ **Watts: 39.3**
- ▶ **Lumens Per Watt: 71.1**
- ▶ **CRI: 82.2**
- ▶ **CCT: 3562K**



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle 45°	Zonal Lumens
0°	4296.	
5°	3954.	98.3
15°	3347.	410.1
25°	2400.	579.9
35°	555.	290.5
45°	70.	45.6
55°	5.	4.7
65°	2.	1.3
75°	0.	0.3
85°	1.	0.6
90°	1.	

LUMEN SUMMARY

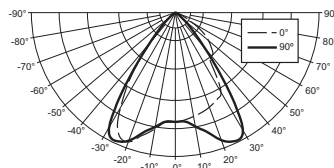
Zone	Lumens	% Fixture
0° - 40°	2783.	97.6
0° - 60°	2848.	99.9
0° - 90°	2852.	100.0
Total Luminaire:		
0 - 180	2852.	100.0
IES Spacing Criteria: 0-180 = 0.84 90-270 = 0.84		

PHOTOMETRY - WALL WASH

Catalog #: **L60-L40C/835-CS/WW-DIM-120**

TEST REPORT INFORMATION

- ▶ Test Report #: 1217930
- ▶ Date: 03/04/16
- ▶ Lamp Type: LED
- ▶ **Rated Lumens: 2704**
- ▶ **Watts: 39.2**
- ▶ **Lumens Per Watt: 68.9**
- ▶ **CRI: 82.2**
- ▶ **CCT: 3561K**



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle 0°	Horizontal Angle 90°	Zonal Lumens
0°	1733.	1733.	
5°	1701.	1728.	41.3
15°	1621.	1971.	219.2
25°	1507.	2229.	418.8
35°	910.	1184.	408.1
45°	763.	280.	191.0
55°	438.	37.	89.7
65°	115.	14.	29.5
75°	13.	6.	7.9
85°	5.	1.	1.9
90°	3.	0.	

LUMEN SUMMARY

Zone	Lumens	% Fixture
0° - 40°	2295.	81.3
0° - 60°	2764.	97.9
0° - 90°	2824.	100.0
Total Luminaire:		
0 - 180	2824.	100.0
IES Spacing Criteria: 0-180 = 1.16 90-270 = 1.26		

FIXTURE PERFORMANCE DATA

Lumen Package	Distribution	Average System Wattage	Delivered Lumens	Efficacy (lm/W)
L11C	W	15	1043	68.7
	M		986	64.9
L15C	W	19	1347	71.1
	M		1273	67.2
L20C	W	26	1680	64.0
	M		1588	60.5
L30C	W	36	2487	70.1
	M		2351	66.3
L40C	W	39	2953	75.4
	M		2791	71.1
L50C	W	51	3566	69.9
	M		3370	66.0
L60C	W	64	4448	69.3
	M		4204	65.5
L70C	W	62	5400	87.2
	M		5104	82.4
L80C	W	72	5773	80.5
	M		5456	76.1
L90C	W	80	5940	74.1
	M		5614	70.0



FULLY ENCLOSED & GASKETED INDUSTRIAL

96

LED

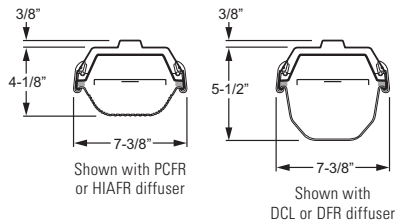
CATALOG #:	96-4-L40-830-DFR-DIM-120V	TYPE:
PROJECT:	NOTES:	

EXAMPLE **96 - 4 - L62/830 - HIAFR - OPTIONS - DRV - UNV**

SERIES NOMINAL LENGTH LUMEN PACKAGE CRI & CCT SHIELDING OPTIONS DRIVER VOLTAGE



CROSS SECTION



ORDERING INFORMATION

SERIES

➔ **96** Fully Enclosed & Gasketed Industrial

NOMINAL LENGTH

➔ **4** 2' 4'
8 8' (acrylic diffusers only)

LED PACKAGE

NOTE: Nominal lumens based on HIAFR shielding.

LUMEN PACKAGE	EXAMPLE: L80/830		MINIMUM CRI & CCT	AVERAGE SYSTEM WATTAGE
	HIAFR	PCFR		
2' UNIT				
L21	2,100	2,400		27
L29	2,900	3,400		38
4' UNIT				
L40	4,000	4,700	830 = 82 CRI, 3000K	40
L62	6,200	7,300	835 = 82 CRI, 3500K 840 = 82 CRI, 4000K 850 = 82 CRI, 5000K	73
8' UNIT				
L50	5,000	-		41
L80	8,000	-		76
L130	13,000	-		135

See back for lumen maintenance details.

SHIELDING

HIAFR Frosted, ribbed, impact-resistant acrylic
PCFR Frosted, ribbed, UV stabilized polycarbonate (not available in 8' units)
➔ DFR Drop, frosted, impact-resistant acrylic
DCL Drop, clear, impact-resistant acrylic with frosted ends

OPTIONS/ACCESSORIES

Cord and receptacle options available, see back for details.
EM/10W 10-watt emergency driver (120-277V only; 4' or 8' only) 25°C maximum ambient operating temperature
(L) Additional lower lumen packages in 100 nominal lumen increments available. Option must be specified with next *higher* lumen package. **Example:** 4,100 nominal lumens = 96-4-L62/840-HIAFR-(L41).
WET/1 (1) 1/2" watertight hub (factory-installed in end of housing)
WET/2 (2) 1/2" watertight hubs (factory-installed in ends of housing; not available with occupancy sensor option)
SSCMB Stainless steel chain mounting brackets (2 per fixture)
TP Tamper-resistant polycarbonate latches (Requires a tamper-resistant tool. Must be ordered separately. Please specify quantity required per project.)
SS LATCH Stainless steel latches
TP/SS LATCH Tamper-resistant stainless steel latches (Requires a tamper-resistant tool. Must be ordered separately. Please specify quantity required per project.)
OCCUPANCY SENSORS
Specify from the following options:
OCCWS HB350W-L2W-120/277¹
OCCWS HB350W-L3W-120/277¹
OCCWS HB350W-L4W-120/277¹

DRIVER

Additional dimming drivers available, see [Technical Info](#).
➔ **DRV** Driver prewired for non-dimming applications
DIM Driver prewired for 0-10V low-voltage dimming applications

VOLTAGE

Must specify 120V or 277V when using occupancy sensor.
➔ **120** 120V
277 277V
UNV 120-277V

FEATURES

- Fully gasketed fixture resists dust, bugs, and moisture.
- Polycarbonate toggle latches (standard) ensure a tight seal and provide easy access to electrical components.
- Optional stainless steel, tamper-resistant stainless steel, or tamper-resistant polycarbonate latches available.
- Closed-cell polyurethane gasket poured and formed in place to ensure tight seal—does not absorb water or support fungal growth.
- NSF/ANSI Standard 2—Splash Zone certified.
- IP65, IP66, and IP67 certified.
- Rated for 40°C maximum ambient operating temperature (25°C with EM/10W).
- LED technology provides high efficacy and energy efficiency.
- Multiple dimming protocols available.
- Rated >50,000 hours at 70% lumen maintenance (L70).
- Minimum 82 CRI; 3000K, 3500K, 4000K, 5000K CCT.
- This fixture is proudly made in the USA.

¹ IP65 certified when specified with occupancy sensor.



96

LED

FULLY ENCLOSED & GASKETED INDUSTRIAL

SPECIFICATIONS

Enclosure – Outer housing consists of 5VA (f1) fiberglass, rated for flame and weather resistance.

Internal Housing – .050" aluminum.

Latching – Injection-molded polycarbonate latches.

Reflector – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal.

Shielding – Frosted, ribbed, impact-resistant acrylic.

Electrical – High quality mid-power LED board. L70 >50,000 hours. 40°C maximum ambient operating temperature.

Mounting – Surface or suspended. Stainless steel ceiling mount brackets included.

Labels & Certifications – cETLus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for dry or damp locations when specified with watertight hub, STOW or SOOW cord, or mini-male receptacle option. NSF/ANSI Standard 2–Splash Zone certified, IP65, IP66, and IP67 certified, and rated for NEMA 4X.

Warranty – 5-year limited fixture warranty, see hew.com/warranty.

IMPORTANT:

Electrostatic sensitive unit. Observe precautions when handling.

CORD OPTIONS

EXAMPLE: 5WMRC6		
NUMBER OF CONDUCTORS	POWER CONNECTION – NON-DIMMING	CORD LENGTH
3 = 3-wire 4 = 4-wire	WMR = Mini-male receptacle only	N/A
	WC = STOW cord	6 = 6'
	WMRC = Mini-male receptacle with STOW cord	20 = 20'
POWER CONNECTION – DIMMING		
5 = 5-wire 6 = 6-wire	WMR = Mini-male receptacle only	N/A
	WC = SOOW cord	6 = 6'
	WMRC = Mini-male receptacle with SOOW cord	20 = 20'

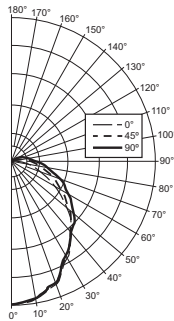
Wet location cord sets are yellow.

PHOTOMETRY

Catalog #: **96-4-L62/830-HIAFR-DRV**

TEST REPORT INFORMATION

- ▶ Test Report #: 18131.0
- ▶ Date: 05/08/14
- ▶ Lamp Type: LED light engine
- ▶ **Rated Lumens: 6123**
- ▶ **Watts: 78**
- ▶ **Lumens Per Watt: 77**
- ▶ **CRI: 83.8**
- ▶ **CCT: 3082K**



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	2189.	2189.	2189.	
5	2169.	2147.	2154.	205.5
15	2032.	2017.	2003.	571.1
25	1770.	1753.	1720.	808.4
35	1503.	1480.	1494.	934.8
45	1213.	1236.	1311.	967.2
55	842.	935.	1063.	846.7
65	532.	702.	847.	691.0
75	248.	452.	583.	462.5
85	62.	289.	414.	292.1
90	24.	201.	303.	
95	7.	163.	268.	165.5
105	0.	97.	180.	98.0
115	0.	49.	115.	52.3
125	0.	15.	64.	22.1
135	0.	0.	25.	5.8
145	0.	0.	0.	0.0
155	0.	0.	0.	0.0
165	0.	0.	0.	0.0
175	0.	0.	0.	0.0
180	0.	0.	0.	0.0

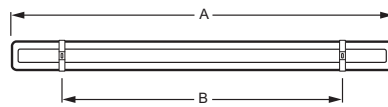
LUMEN SUMMARY

Zone	Lumens	% Fixture
0 - 30	1585.	25.9
0 - 40	2520.	41.2
0 - 60	4334.	70.8
0 - 90	5779.	94.4
90 - 120	316.	5.2
90 - 130	338.	5.5
90 - 150	344.	5.6
90 - 180	344.	5.6
Total Luminaire:		
0 - 180	6123.	100.0

IES Spacing Criteria:
End = 1.1, Diagonal = 1.1, Across = 1.1

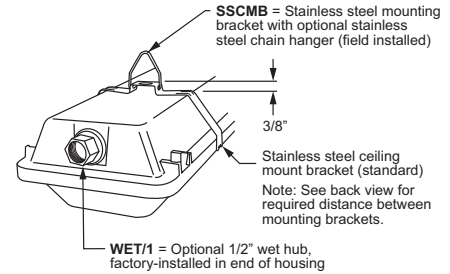
FIXTURE DETAILS

BACK VIEW



Nominal Length	Overall Length (A)	Mounting Distance (B)
2'	27-5/8"	12" - 17" OC
4'	51-7/8"	30" - 42" OC
8'	100-1/4"	48" - 80" OC

MOUNTING

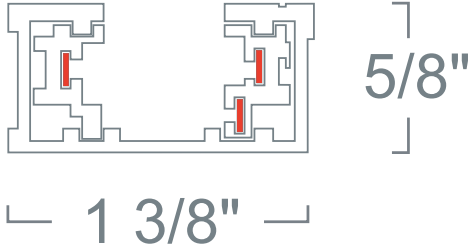




TYPE _____ PROJECT _____

CATALOG# _____

LP02 . LP04 . LP06 . LP08 . LP12 - 1 CCT TRACK CHANNEL
TRACK ACCESSORIES - SINGLE CIRCUIT



Supplied w/ (1) LP930 End Cap.



SPECIFICATION

Application: Extruded aluminum track with 20-Amp rated flat, solid copper conductors. Provides for mounting and power to adjustable track heads. Light fixtures can be positioned without any needs for tools. Compatible with most H-type track lighting heads.

Electrical: Single circuit: 2400 watts.

Length: Available in 12' Channel, 2' Channel, 4' Channel, 6' Channel and 8' Channel.

Finish: Available in White, Bright White, Black and Natural Metal**.

Label: UL Listed, cETL Listed, Damp Location

COMPATIBILITY

 LP943 L-CONNECTOR	 LP989 CONDUIT CONTINUATION KIT	 LP931 LIVE END W/ CANOPY
 LP917 SLOPE CEILING TRACK ADAPTER	 LP983 T-BAR CLIP	 LTD8014 14W CONCEALED LED TRACK HEAD
 LP929 FLOATING CANOPY CONNECTOR	 LP900 OUTLET BOX COVER	 LP930 END CAP
 LP949 MINI CONNECTOR	 LP950 CORD & PLUG CONNECTOR	 LP957 PENDANT ADAPTER
 LP941 LIVE END	 LP982 SLOPE CEILING PENDANT ADAPTER	 LP903 LINEAR CONNECTOR

Please see website for more compatible items.

FEATURE:



ORDERING EXAMPLE : LP06B

LP	LENGTH	FINISH
LP02	:2' Channel	W :White
LP04	:4' Channel	W-2 :Bright White
LP06	:6' Channel	B :Black
LP08	:8' Channel	N :Natural Metal**
LP12	:12' Channel	

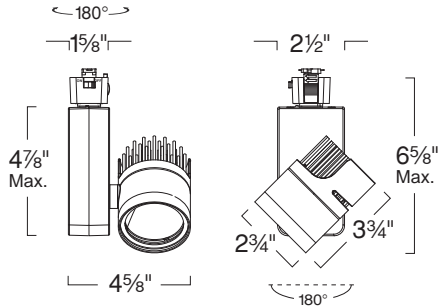
*
**Not available for 12'

ID#: 700



TYPE PROJECT
CATALOG#

**LTD7410 - APOLLO 10 - 1100 LUMEN
LED TRACK HEAD**



SPECIFICATION

16W LED

Application: High Output architecturally-styled APOLLO LED Trackhead is perfect for applications where powerful lumen output is required. Fully die-cast with integrated heatsink, hardware and wiring for a sleek unobtrusive appearance. APOLLO combines long-lasting beauty and energy efficiency with intense lumen output. Excels at delivering maximum footcandles to objects, spaces and features from longer distances. Ideal for Retail and Commercial applications.

Connector: LITON track fixtures come standard with 3-Wire H-Type track connections. Fixture is factory preset for installation on single-circuit track. J-Type and L-Type connections are available with extended lead times - consult factory.

Driver: Electronic Constant Current driver integrally mounted in fixture casing.

Dimming: Low Voltage dimming option (-DLV) works with standard Electronic Low Voltage Dimmers. Factory qualified for use with LUTRON Brand Dimmers: SELV-300P, VELV-300P, NELV-450 along with 3-Way versions. (-DLV) Dimming Option also compatible with Grafik Eye Dimming Interface ELVI-1000, smoothly dims down as low as 10% of initial light output with flicker-free operation.

Lumen Maintenance: Minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

Thermal Management: Effective thermal dissipation facilitated by integral cast-aluminum, heat sink design for maximum heat rejection to provide long LED life.

Warranty: Covered by a 5 Year Warranty to be free of defects in materials and craftsmanship. Recommended for applications where ambient temperatures do not exceed 35°C, installations exceeding this temperature will result in reduced LED lamp life and a voided warranty.

Finish: Available in All Black and Bright White/Black Heat Sink.

Beam Spread: Available in Flood, Narrow Flood and Spot.

Color Temp: Available in 2700K, 3000K, 3500K and 4000K. LEDs binned to within 3-Step MacAdam Ellipses (SDCM) and surpasses the ANSI C78 377A standard for color deviation.

Label: cETL Listed

LED Details:

16W 1100 + Lumens Delivered
Color Rendering Index (CRI): 80
Lamp Equivalents: 70W MR16 , 75W PAR20

Benefit:

- Fully die-cast for high quality, long-lasting beauty
- 3 beam spread options for fine tuning footcandle distribution
- Powerful 1100 lumen output lights objects and spaces near and far
- MR16 75W performance in a long life, cool running LED track head

2016.2.1

FEATURE:



ORDERING EXAMPLE : LTD7410B-B15-DLV-T27

LTD7410	FINISH	BEAM SPREAD	DIMMING	COLOR TEMP	CRI
LTD7410	B :All Black W :Bright White/Black Heat Sink	-B15 :Spot -B25 :Narrow Flood -B45 :Flood	-DLV :ELV Dimming	-T27 :2700K -T30 :3000K -T35 :3500K -T40 :4000K	Blank :80 CRI -C90 :90 CRI*

* Special Order

ID#: 2856





TYPE PROJECT

CATALOG#

One-Circuit Track Power Feeds

TRACK ACCESSORIES - SINGLE CIRCUIT

T-Bar End Feed



Power feed with T-bar installations where T-bar is directly above track
Supplied with 1/2" knock out

Ordering:

- LP927W White
- LP927B Black
- LP927S Satin Gray**

Floating Canopy Connector



Power feed canopy mounts to standard outlet box, anywhere along track
channel.

Ordering:

- LP929W White
- LP929B Black
- LP929S Satin Gray**

Live End w/ Canopy



Power feed to track at end of channel. Covers outlet box.
Comes with standard 1/2" knock out.

Ordering:

- LP931W Bright White
- LP931B Black
- LP931S Satin Gray**

Live End



Power feed to track at end of channel.
Comes with standard 1/2" knock out.

Ordering:

- LP941W White
- LP941W-2 Bright White
- LP941B Black
- LP941S Satin Gray

Cord & Plug Connector



Power feed with electric plug and 6 foot cord.

Ordering:

- LP950W White
- LP950B Black
- LP950S Satin Gray**

Conduit Connector



Allows for surface wiring with standard 1/2" conduit.

Ordering:

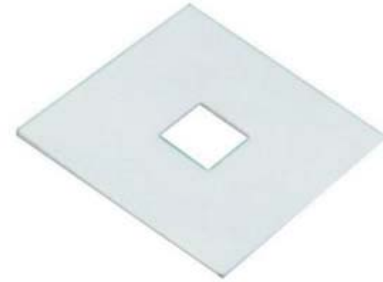
- LP980W White
- LP980B Black
- LP980S Satin Gray





TYPE PROJECT
CATALOG#

LP900 - OUTLET BOX COVER
3 CIRCUIT / 1 NEUTRAL TRACK ACCESSORIES



For use LP903, LP905, LP943, LP946 track joins to cover outlet box.










SPECIFICATION

Connector: Factory Installed specification grade 3-circuit 1-neutral track connector.

Finish: Available in Bright White and Black.

Label: UL Listed, cETL Listed, Damp Location

COMPATIBILITY

 LP2903 STRAIGHT CONNECTOR	 LP3905 T CONNECTOR	 LP2905 T-CONNECTOR
 LP2941 LIVE END (RIGHT)	 LP3902 FLEXIBLE CONNECTOR	 LP2946 X-CONNECTOR
 LP2902 FLEXIBLE CONNECTOR	 LP3941 LIVE END (RIGHT)	 LP3946 X-CONNECTOR

Please see website for more compatible items.

Note: Wattage limitations on compatible items must be met.

FEATURE:



ORDERING EXAMPLE : LP900W

LP900	FINISH	ACCESSORIES
▶ LP900	W :Bright White B :Black	/LP903W :White /LP903W-2 :Bright White /LP903B :Black /LP903S :Satin Gray /LP905W :White /LP905W-2 :Bright White /LP905B :Black /LP905S :Satin Gray /LP943W :White /LP943W-2 :Bright White /LP943B :Black /LP943S :Satin Gray /LP946W :White /LP946W-2 :Bright White /LP946B :Black /LP946S :Satin Gray

ID#: 2014



45457OZ - Braelyn - One Light Wall Bracket by Kichler Lighting

Specs

Family/Collection:	Knox
Height:	9.50"
Width/Diameter (in):	5.00"
# of Bulbs:	1
Standard Wattage:	60W
Bulb Type:	S21
Weight:	2.70 lbs.

Style and Option 1

Style:	Olde Bronze Finish
Item #:	45457OZ



Specification Sheet: LED A-Lamps

Lower the Cost and Improve the Environment of Your Home and Business

Revolution Lighting offers a wide variety of dimmable lamps for hospitality, commercial, multi-family and more. Our LED lighting solutions provide a better quality of light and significantly greater energy efficiency than incandescent, halogen and fluorescent lamps, reducing energy use by up to 80%. The lamps are mercury-free and 100% recyclable, making them the sustainable choice among lighting. They reduce long-term maintenance and operational costs as well with their superior lamp life and 5-year limited warranty.

APPLICATIONS

- Residential
- Restaurants
- Retail
- Hotels
- Commercial buildings
- Schools
- Hospitals
- Assisted living facilities

BEAM ANGLE



Revolution Lighting Light Distribution

CAN DECREASE ENERGY USAGE BY



vs. Similar Incandescent Lamps

WARRANTY



Our Industry-Leading 5-Year Limited Warranty Guarantees Unsurpassed Quality

PRODUCT BENEFITS

OPERATIONAL

- 3X greater lamp life than fluorescent
- 25,000-hour lamp life reduces long-term maintenance costs
- Instant on, no warm-up time
- High-temperature silicone gasket

SAFETY

- Lightweight aluminum housing
- Negligible light depreciation over time
- Superior light output
- Good heat dissipation

SUSTAINABILITY

- Lack of UV or IR minimizes concerns with fading or discoloration
- Mercury-free, allowing for non-hazardous disposal
- 100% recyclable



7W & 9.9W LED A-Lamp

ORDER LOGIC (Ex. AL-7-27-A19-D)

Product Description	Lamp Wattage	CCT (K Temp)	Size	Dimmability
AL = A-LAMP	7 = 7W 9.9 = 9.9W	27 = 2700K 30 = 3000K 40 = 4000K 50 = 5000K	A19 = A19	D = DIMMABLE





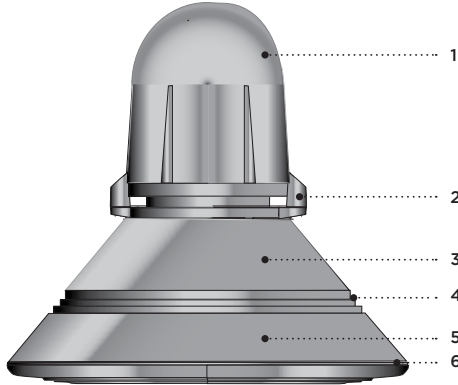
LUMINIS®

SR135 SERIES
SCIROCCO - LED

TYPE: _____ QUANTITY: _____ PROJECT: _____

CATALOG NUMBER:

FIXTURE WATTAGE VOLTAGE FINISH OPTION OPTION OPTION OPTION



Full cutoff luminaire

- 1- Cast aluminum driver housing.
- 2- Housing/shade assembly hinge mechanism.
- 3- Sealed and isolated LED compartment.
- 4- Cast aluminum shade.
- 5- LED optical control silicone lenses.
- 6- Hinged cast aluminum lens frame.

SR135-APC



MATERIALS

Scirocco is made of corrosion resistant 356 aluminum alloy with a copper (CU) content of less than 0.1%.
COB LED is assembled on a thick pad housing chamber designed with a heat sink pattern to optimize heat dissipation and luminaire efficacy. The power supply is enclosed in an isolated chamber allowing quick access for electrical maintenance without disturbing the optical chamber.
COB LED is removable and replaceable for ease of maintenance or lighting upgrade.

ELECTRICAL

LED

POWER SUPPLY Standard driver is 0-10V dimming-ready (dims to 10%) with: 120-277 multi-volt compatibility (50-60Hz), operating temperature range of -30°C/-22°F to 60°C/140°F, output over voltage protection, output over current protection and output short circuit protection with auto-recovery.

LED

Type II, III, IV or V light distribution via high performance optical lenses. Standard 4000K/80CRI. Optional 3500K and 5000K.

LIFE

125,000hrs (L₇₀B₅₀) based on LM-80 report for lumen maintenance.

FINISH

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

MOUNTING

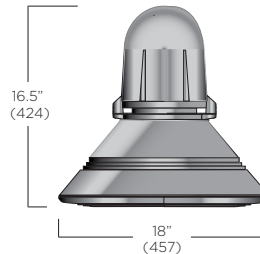
Maximum weight: 31lbs (14.1kg)

Scirocco is a modular luminaire concept offering a selection of mounting arrangements for various architectural requirements.

Pole, wall or suspended attachments are offered with high quality components to meet multiple installation conditions.

CERTIFICATION

Tested to UL1598 and CSA22.2 #250. ETL listed for wet location.
Photometric testing performed by an independent laboratory in accordance with IES LM-79-08 standards at 25°C/77°F. Lumen depreciation in accordance with IESNA LM80 standards.
Rated IP65.




EPA: 0.68



Please visit our web site www.luminis.com for complete I.E.S. formatted download data. Refer to page 5 for additional information.

SR135 SERIES SCIROCCO - LED

LUMINAIRE SELECTION

MODEL#	LED LIGHT SELECTION (4000K/80CRI)	VOLTAGE ¹	FINISH	
	INPUT WATTS	DELIVERED LUMENS	MODEL	
	Type II	18W 2619	<input checked="" type="checkbox"/> SR135-L1W18r0-R2	
		34W 4170	<input type="checkbox"/> SR135-L1W30r1-R2	
		69W 7994	<input type="checkbox"/> SR135-L2W30r1-R2	
	Type III	18W 2760	<input type="checkbox"/> SR135-L1W18r0-R3	
		38W 4395	<input type="checkbox"/> SR135-L1W30r1-R3	
		76W 8697	<input type="checkbox"/> SR135-L2W30r1-R3	
	Type IV	18W 2822	<input type="checkbox"/> SR135-L1W18r0-R4	
		38W 4493	<input type="checkbox"/> SR135-L1W30r1-R4	
		75W 8482	<input type="checkbox"/> SR135-L2W30r1-R4	
	Type V	18W 2665	<input type="checkbox"/> SR135-L1W18r0-R5	
		36W 4243	<input type="checkbox"/> SR135-L1W30r1-R5	
		69W 7937	<input type="checkbox"/> SR135-L2W30r1-R5	
			<input checked="" type="checkbox"/> 120V	<input type="checkbox"/> 277V
			Optional	<input type="checkbox"/> 347V
			<input type="checkbox"/> 480V	
		STANDARD COLORS	<input type="checkbox"/> WHT Snow white <input type="checkbox"/> BKT Jet black <input type="checkbox"/> BZT Bronze <input type="checkbox"/> MST Matte silver <input type="checkbox"/> GRT Titanium gray <input type="checkbox"/> DGT Gun metal <input type="checkbox"/> CHT Champagne <input type="checkbox"/> SGT Steel Gray	
		OPTIONAL COLORS	<input type="checkbox"/> CS Custom color <input type="checkbox"/> RAL RAL# color (Refer to color chart)	

NOTE: Above wattage values are based on 277V, tested at 25°C/77°F ambient temperature.
Wattage may vary by approx. +/- 10% for other voltages or changes in ambient temperature.
Lumens output will remain constant.

OPTIONS

ELECTRICAL

- FS** Fuse²
 - PH** Photocell²
 - SP** Surge protector 10KV
- Alternate CCT °K LED
- K2A** Amber LED for turtle sensitive areas. Wavelengths: 584.5 nm to 597 nm
 - K35** 3500K CCT 80 CRI (Multiplier 0.98)
 - K5** 5000K CCT 80 CRI (Multiplier 1.01)

MOUNTING

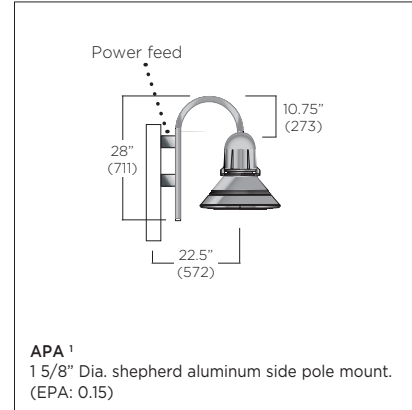
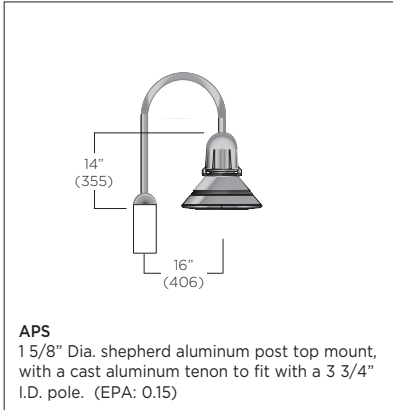
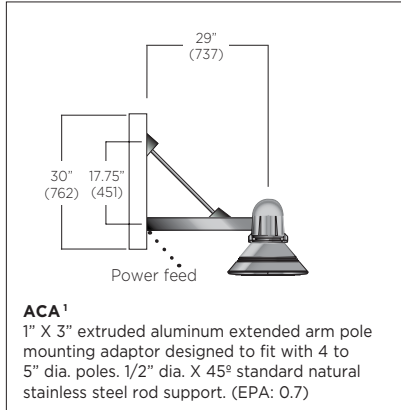
- ACA** Pole mount attachment with 45° support
- ACW** Wall mount attachment with 45° support
- APA** Pole mount shepherd arm attachment
- APC** Pole mount straight arm attachment
- APS** Post top shepherd arm attachment
- CAT2** Catenary suspension attachment
- W** Wall mount shepherd arm attachment
- T** Wall mount straight arm attachment
- STM** 36" Field-cutable stem with 45° swivel (other lengths available, please specify)

ACCESSORIES

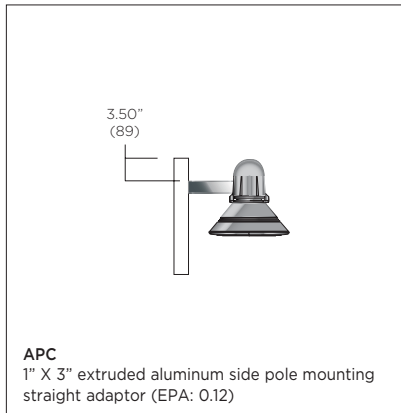
- BLC** Back light control³
- SPG** Silver braided power cord with adjustable suspension cable. 36" in length (other lengths on request)
- SC** Safety cable extends 18" over mounting plate (with stem mounting only)
- SSC** Stabilizer cables

NOTES

- 1- If no voltage is specified, luminaires are factory prewired by default for 120V. For other voltages, please specify with catalog number, or consult factory.
- 2- Fuse and photocell options are normally installed with poles when specified with Luminis luminaires. (Except for other types of mounting.)
- 3- BLC: Back Light Control - Type II Distribution.

**SR135** SERIES
SCIROCCO - LED**POLE MOUNT**

NOTE 1: PST Pole with ACA and APA attachments require a 30" (762) tenon extension over pole nominal height. Factory installed.

**POLES****MATCHING POLE SELECTION**

Ø 4"	Ø 5"	Ø 4"	Tapered Pole	Ø 4"	Height
PAA410	PAA510	PST10	-----	PSB10	10 Ft. (3 M)
PAA412	PAA512	PST12	-----	PSB12	12 Ft. (3,6 M)
PAA414	PAA514	PST14	-----	PSB14	14 Ft. (4,2 M)
PAA416	PAA516	PST16	PTA16	PSB16	16 Ft. (4,8 M)
PAA418	PAA518	-----	PTA18	PSB18	18 Ft. (5,5 M)
PAA420	PAA520	-----	PTA20	PSB20	20 Ft. (6,0 M)
-----	-----	-----	PTA25	-----	25 Ft. (7,6 M)

For additional pole details, please refer to separate pole specification sheet.
Ø 4" = 100mm Ø5" = 127mm



SR135 SERIES
SCIROCCO - LED

WALL MOUNT

ACW
1" X 3" extruded aluminum extended arm wall mounting adaptor with cast aluminum covers and galvanized steel mounting plates. 1/2" dia. X 45° standard natural stainless steel rod support.

Mounting
3" (76)
4.625" (118)
17.75" (451)
Power feed

W
1 5/8" Dia. shepherd aluminum arm wall mount, with a cast aluminum wall cover and galvanized steel mounting plate.

Mounting
3" (76)
4.625" (118)
Power feed

T
1" X 3" extruded aluminum wall mounting straight adaptor with cast aluminum cover and galvanized steel mounting plate.

Mounting
3" (76)
4.625" (118)
Power feed

CATENARY SUSPENSION

CAT2
Cast aluminum catenary junction box with (2) 1/2" sealed connectors for power cable. Ready to accept 1/4" stainless steel suspension cable. (Structural design, power cable, stainless steel catenary cable, cable fittings, and fittings for mounting to support structure provided by others.)

CEILING PENDANT MOUNT

STM
36" lg. (914) stem with 45° swivel ceiling mount Ø 5/8" (16) aluminum suspension stem. Luminaire top swivel adaptor allows to cut stem to length on site. (Mounts over a standard 4" octagonal box with 3 1/2" C/C holes).

SPG
4/18 Silver braided power cable, with stainless steel adjustable cable. Standard 36" lg. (914). Other lengths available on request.

SSC
Set of three stabilizer cables

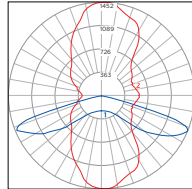




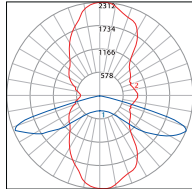
SR135 SERIES
SCIROCCO - LED

TYPICAL PHOTOMETRY SUMMARY

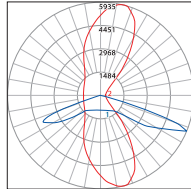
TYPE II



SR135-L1W18r0-R2
Total Lumens: 2619 Lms
Total Input Watts: 18.5W
Efficacy: 141.57 Lms/W
BUG Rating: B2-U0-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1452 @ 85°H/67.5°V

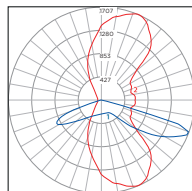


SR135-L1W30r1-R2
Total Lumens: 4170 Lms
Total Input Watts: 34.33W
Efficacy: 121.47 Lms/W
BUG Rating: B2-U0-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
2312 @ 85°H/67.5°V

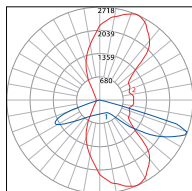


SR135-L2W30r1-R2
Total Lumens: 7994 Lms
Total Input Watts: 68.66W
Efficacy: 116.43 Lms/W
BUG Rating: B3-U0-G3
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
5935 @ 77.5°H/67.5°V

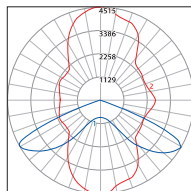
TYPE III



SR135-L1W18r0-R3
Total Lumens: 2760 Lms
Total Input Watts: 18.5W
Efficacy: 149.19 Lms/W
BUG Rating: B1-U0-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1707 @ 65°H/70°V

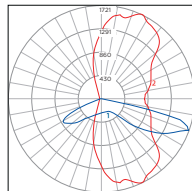


SR135-L1W30r1-R3
Total Lumens: 4395 Lms
Total Input Watts: 38.3W
Efficacy: 114.75 Lms/W
BUG Rating: B2-U0-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
2718 @ 65°H/70°V

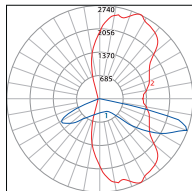


SR135-L2W30r1-R3
Total Lumens: 8697 Lms
Total Input Watts: 75.59W
Efficacy: 115.05 Lms/W
BUG Rating: B3-U0-G3
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
4515 @ 90°H/60°V

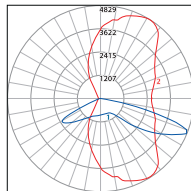
TYPE IV



SR135-L1W18r0-R4
Total Lumens: 2822 Lms
Total Input Watts: 18.5W
Efficacy: 152.54 Lms/W
BUG Rating: B1-U1-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1720 @ 65°H/70°V

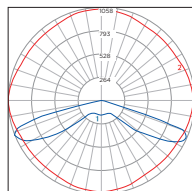


SR135-L1W30r1-R4
Total Lumens: 4493 Lms
Total Input Watts: 38.25W
Efficacy: 117.46 Lms/W
BUG Rating: B2-U1-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
2740 @ 65°H/70°V

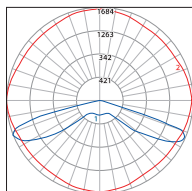


SR135-L2W30r1-R4
Total Lumens: 8482 Lms
Total Input Watts: 75.21W
Efficacy: 112.78 Lms/W
BUG Rating: B2-U1-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
4829 @ 57.5°H/67.5°V

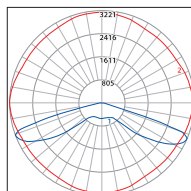
TYPE V



SR135-L1W18r0-R5
Total Lumens: 2665 Lms
Total Input Watts: 18.5W
Efficacy: 144.05 Lms/W
BUG Rating: B2-U0-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1057 @ 180°H/67.5°V



SR135-L1W30r1-R5
Total Lumens: 4243 Lms
Total Input Watts: 35.71W
Efficacy: 118.82 Lms/W
BUG Rating: B3-U0-G1
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
1684 @ 67.5°V



SR135-L2W30r1-R5
Total Lumens: 7937 Lms
Total Input Watts: 68.67W
Efficacy: 115.58 Lms/W
BUG Rating: B3-U0-G2
Cutoff Class: Full Cutoff
CCT/CRI: 4000K/80
Max Candela:
3221 @ 65°V

Please visit our web site www.luminis.com for complete I.E.S formatted download data.
All published photometric data are executed and certified by an independent testing laboratory.





XMR

DAMP



HOME

Job/Location: _____	Job Type: _____
Contractor: _____	Date: _____
Prepared By: _____	

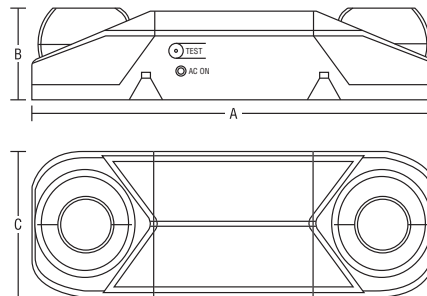


■ specifications: internal

The XMR is configured with a 120/277VAC input. Standard features include solid-state charging circuitry, low voltage disconnect, AC lockout and brownout protection. Maintenance free 6V 4.5Ah sealed lead calcium battery. Meets UL924, NFPA 101 Life Safety Code, NEC, OSHA, Local and State Codes. UL listed for damp locations. (20°C – 40°C).

■ specifications: external

The XMR is constructed from high quality 5VA flame & corrosion resistant, high-impact thermoplastic. White finish is standard (black color optional). The universal mounting bracket is easily snapped onto the XMR housing. External test switch and monitor LED are standard. The gimbal style head assemblies allow precise positioning.



Series	A	B	C
XMR	13.7"	3.1"	5"
	348mm	79mm	127mm

■ ordering logic

Series	Model	Options
XMR	S1 (6V 14W)	B (black finish)

EXAMPLE: XMR-S1-B
DESCRIPTION: 6V 14W, black housing



Technical

■ emergency heads

Two 7W MR16 lamps offer great performance. The XMR-S1 comes standard with two (2) semi-recessed, front mounted 7W MR16 lamps. The gimbal style head assemblies allow precise positioning.

■ specifications: electrical

BATTERY: The XMR is configured standard with a single 6V 4.5Ah maintenance free, sealed lead calcium battery. 90 minutes emergency duration minimum. 24 hour charge time.

CIRCUIT: The XMR features 120/277VAC input with current limit protection. External test switch and monitor LED are standard.

■ specifications: mechanical

The XMR features a gimbal design allowing precise adjustment of the lamps. A quick connect bracket system and white injection molded thermoplastic housing make it durable and easy to install (optional black).

■ warranty

The XMR-S1 comes with a 3-year factory warranty. Lamps are not covered under the warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.



VA5

INDOOR | DAMP

HOME

Job/Location: _____	Job Type: _____
Contractor: _____	Date: _____
Prepared By: _____	

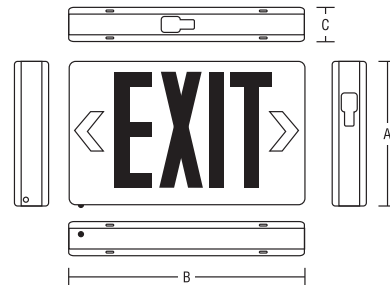


■ specifications: internal

The VA5 comes standard configured with high output LED technology, 120/277V input and infrared test, available in red or green. Nickel-cadmium batteries provide a minimum 90 minutes of emergency duration. Electronic cut-off circuit prevents over discharge.

■ specifications: external

The VA5 is constructed from high-quality thermoplastic that is corrosion and flame resistant. The VA5 includes as standard equipment, a mounting canopy, two (2) stencil faces, one (1) backplate, field adjustable chevrons and all mounting hardware. Available in a white finish only. Damp location is standard on all VA5 products. An external LED status indicator and test switch are standard on all self-powered models.



Series	A	B	C
VA5	7.5" (191mm)	12" (305mm)	1.5" (38mm)

■ ordering logic

Series	LED	Model
VA5	R (red) G (green)	SA-AT-IRT

EXAMPLE: VA5R-SA-AT-IRT
DESCRIPTION: red LED, universal face, autotest, infrared test



Technical

HOME

■ specifications: electrical

CIRCUIT: The VA5 is configured with high-output LED lamps. LED version is standard with 120/277V input.

- Red LED - 4W
- Green LED - 2W

■ specifications: mechanical

The VA5 is constructed from high-quality corrosion and flame resistant thermoplastic. Field adjustable chevrons are standard on all VA5 exits. The VA5 can be universally mounted configured for either single or double face installations. Canopy and mounting hardware is included. High-output red or green LED's provide energy savings, long life and create even illumination across the stencil face. 120/277V input is standard on all VA5 exits. The (SA) version features maintenance-free nickel-cadmium batteries, electronic cut-off that prevents over discharge and the Beghelli Autotest diagnostic system.

■ autotest diagnostics

The VA5 comes standard with the Beghelli Autotest IRT diagnostic system. Featuring continuous monitoring of the units main components (battery, charger, transformer, lamps & LED's) and providing instant visual verification of the status.

AUTO-TEST FEATURES:

- Monitor battery disconnection, charger failure, LED failure and transformer fault every 5 seconds without discharging the battery.
- Automatically indicates lamp, battery and charger status by dual-color LED lamp.
- Factory preset Autotest does not need to be field adjusted or reset for proper operation

■ autotest manual functions

- Press test button 1x (within 2 sec.) = 1 minute test
- Press test button 2x (within 2 sec.) = 5 minute test
- Press test button 3x (within 2 sec.) = 30 minute test
- Press test button 4x (within 2 sec.) = 90 minute test

■ autotest functions

- Verifies battery disconnect, charger board failure, LED failure and transformer failure every 5 seconds.
- One (1) minute Autotest every month.
- Thirty (30) minute Autotest every six (6) months.
- Ninety (90) minute Autotest every twelve (12) months.

Autotest VISUAL ALERT

- | | |
|----------------------|--|
| (1) blink red LED = | Battery not connected |
| (2) blinks red LED = | Battery shorted and/or
Battery voltage drop |
| (3) blinks red LED = | Charger board fault |
| (4) blinks red LED = | Transformer fault |
| (5) blinks red LED = | N/A |
| (6) blinks red LED = | N/A |
| (7) blinks red LED = | LED lamp fault |

■ self-powered

The VA5-SA has been designed to be an "always on" exit. Operating under normal AC until there is a power failure and then automatically switching to the DC emergency mode. Both the battery and charger are fully contained within the standard enclosure. There are no external components that add to the dimensions of the product. This results in a clean and simple design. The VA5-SA utilizes solid state transformer technology that eliminates the possibility of relay failure. Status of the VA5 is displayed via an LED that indicates AC-ON and all functions of the Autotest diagnostic system. An external test switch allows inspectors & maintenance personnel to quickly confirm the operations status of the VA5 exit. The VA5 comes standard with Infrared testing (IRT) that allows wireless testing of all functions.

■ warranty

The VA5 comes with a 5-year factory warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.