AL3R Series

Spectra III Round Area Luminaire, 250-400W HID / 165W QL

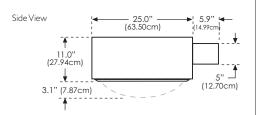


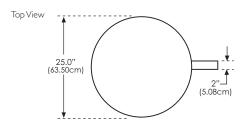
Overall Dimensions

For Reference Only

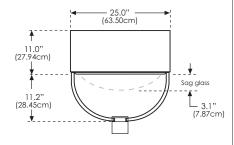
AL3R

arm mount (SS) Surface Arm Mount to Square Pole (standard)





AL3R post top yoke mount (PT(X)R)



EPA Effective Projected Area in Ft²

	١	Number of Fixtures				
	1	2	3	4		
Arm Mount (SS/SR)						
Flat glass	1.4	2.7	3.2	3.7		
Sag glass	1.5	3.0	3.7	4.1		
Post Top Mount (PT(X)	R)					
Flat glass	1.3	N/A	N/A	N/A		
Sag glass	1.5	N/A	N/A	N/A		
See Mounting Co	onfigurat	ion char	t on pa	ge 3.		

Specifications

Housing

Seamless spun aluminum housing. Standard unit constructed to IP54.

Optical Module

Rotatable multi-faceted segmented reflectors shall be made of high purity enhanced Super Sheet (94% reflectance) aluminum. Optical assemblies shall be field rotatable at 90° increments and exchangeable. Lamp orientation and lens flexibility allow the AL3R Series (Spectra III Round Area Luminaires) to provide optics meeting the IES definitions of Full Cutoff and Cutoff. "F" optics combine standard flat glass lens with vertical lamp orientation to achieve Full Cutoff and is Dark Sky Ordinance compliant. Type "V" and Type "H" also available.

Lamp Access

Door frame shall be die-cast aluminum and is gasketed to ensure a positive seal to the housing.

Lens

Lens shall be tempered glass to withstand thermal and physical shock. (Flat glass or sag glass determined by wattage and optics specified.)

Socket

A porcelain, 4KV pulse-rated, grip-type mogul base socket shall be used to prevent lamp loosening and to maintain proper lamp positioning for HID sources.

Ballast

HID Units: Ballast shall be high power factor with reliable starting at temperatures as low as -29°C (-20°F) for Metal Halide, -34°C (-30°F) for Pulse Start Metal Halide, and -40°C (-40°F) for High Pressure Sodium. Crest factor does not exceed 1.8. Ballast has Class H, 180°C (356°F) rated insulation system.

QL Units: High frequency ballast has reliable starting at temperatures as low as -40° C (-40° F), with total harmonic distortion of less than 10% Lamp/Generator combination has 100,000 hour rated lamp life.

Mounting

Standard surface arm mount (field installed) shall be of heavy gauge extruded aluminum. Threaded tension rods shall be used to bolt to square or round poles. Optional post top mount shall allow fixture to be mounted to round poles or tenons. Additional mounting options include a mastfitter arm mount for a horizontal tenon, a wall mount bracket with 6" arm, and pole top tenon adapters with arm mount for square and round poles.

Finish

Standard finish shall be Textured Dark Bronze UltraClad polyester powder coating, 2.5 mil nominal thickness, electrostatically applied and oven cured to ensure extreme durability. Other colors may be specified.

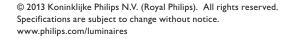
Listings

ETL/cETL listed to the UL 1598 standard, suitable for Wet Locations. The quality systems of this facility have been Registered by UL to the ISO 9000 Series Standards.

Warranty

Philips Gardco luminaires feature a 5 year limited warranty. See Warranty Information for complete details and exclusions. Polycarbonate lenses carry a 1 year warranty only.

Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled 'Contain Mercury' and/or with the symbol 'Hg'. Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycle and disposal can be found at www.lamprecycle.org.



60 lbs. (27.22 kgs)



Weight

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Туре:	Job:			Page 2 of 4
	Series/Source-Wattage	Optics (Distribution) 1	Voltage	Mounting ⁵
	Pulse Start Metal Halide AL3RP-250	Vertical lamp Full Cutoff, Flat Glass ² 2F Type II	available HID voltages	Surface arm mount to square pole (standard)
1	☐ AL3RP-320	☐ 3F Type III	120	
1	☐ AL3RP-350	☐ 4F Type IV	□ 208	SR(X) ⁶ Surface arm mount to round pole Mounting edge of arm is
1	☐ AL3RP-400	☐ 5F Type V	☐ 240	contoured to match pole radius.
	SE COMULTIVE SE	Vertical lamp Cutoff, Sag Glass ⁵ 2V Type II	277	SM Mastfitter arm mount to 2-3/8" O.D. x 5" horizontal tenon
	The state of the s	□ 3V Type III □ 4V Type IV □ 5V Type V	☐ 347 ☐ 480	RTA-(X)-(Y) ^{7,8} Round pole tenon adapter Round pole tenon adapter
	High Pressure Sodium	Horizontal lamp Full Cutoff, Flat Glass	☐ QV³	Slipfitter for Square Pole with
4	☐ AL3RS-250 ☐ AL3RS-400	☐ 2H Type II ☐ 3H Type III		See footnotes. 2.375" O.D. x 4" vertical tenon, 6" arm included.
		□ 4H Type IV □ 5H Type V		□ WBA □ PT(X)R Wall mount Post top bracket yoke
	QL Induction ¹ AL3RQL-165	Distribution Patterns Basic Roadway Distribution Patterns as follows: Type II Type IV Forward Throw Type V Square	available QL voltages ⁴ 120 208-277	with 6" arm mount
Optio	ns		Finish	Accessories (Ordered Separately)
☐ BL	Bi-Level dimming (for HID vertically lamped units only)	SLS Stabiliux Socket (for H optics only)	☐ TSA	Textured Satin
□ rơ	Liet/Celei Overde Beetdie	THSS Internal	□ BRP	Aluminum (120/277/347V) Bronze Paint To KIT
☐ LQ1	Separately Wired (120V) Quartz Restrike (for HID units only)	House Side Shield	☐ BLP	
☐ F1 ☐ F2 ☐ F3	Single Fuse (120/277V/347) Double Fuse (208/240/480V) Double Fuse (208/240/480V) Canadian double pull		□ WP □ NP	White Paint Natural Paint Verde Paint White Paint F3-KIT Double Fuse Kit (208/240/480V) Canadian double pull
☐ TLR	Twist-Lock Photocell Receptacle *PC(***)V Twist-Lock Receptacle with Photocell Specify voltage, 480V not available.			(*) Optional Color Specify RAL Designation
□ РСВ	(***)V Photocell Button Specify voltage, 480V not available.		(spe	cial Color Paint ecify, must supply or chip)

- 1) QL units available in 3F, 5F, 3V, and 5V distribution only.
- 2) Not available for HPS.
- Allows field selection of 120/208/240/277V. (No 480V). Options may require voltage selection. HID units only.
- Consult factory for availability of additional voltages for QL induction units, with internal transformer.
 Refer to Drill Template 8 on page 4 for details.
- 6) X = Specify pole size: (3.5 / 4)" O.D., or (4 / 5)" O.D.
- 7) X = Specify configuration: 1 @ 90°; 2 @ 90°; 3 @ 90°; 4 @ 90°; 2 @ 180°. Or 2 @ 120° or 3 @ 120° (round poles only).
 8) Y = Specify tenon size: 2.375" O.D. x 4" tall; 3 / 3.5" O.D. x 6" tall, or 3.5 / 4" O.D. x 6" tall.

Spectra III Round Area Luminaire, 250-400W HID / 165W QL

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Distribution Guide & HID Ballast Data¹

Source Type ²	Catalog Number	Lamp Envelope	Optics (Distribution) (Reflector Type) ⁵	Cutoff Level	.ies File Name³	Ballast Type ⁴	ANSI Code	Line Current 120 / 208 / 240 / 277 / 480	Line Watts
PS	AL3RP-250	BT / ED28	2F, 3F, 4F, 5F, 2H, 3H, 4H, 5H 2V, 3V, 4V, 5V	Full Cutoff Cutoff	alp25(*).ies	CWA	M138	2.5 / 1.5 / 1.3 / 1.1 / 0.6	288
PS	AL3RP-320	BT / ED28	2F, 3F, 4F, 5F, 2H, 3H, 4H, 5H 2V, 3V, 4V, 5V	Full Cutoff Cutoff	alp32(*).ies	CWA	M132 / M154	3.3 / 1.9 / 1.7 / 1.4 / 0.8	368
PS	AL3RP-350	BT / ED28	2F, 3F, 4F, 5F, 2H, 3H, 4H, 5H 2V, 3V, 4V, 5V	Full Cutoff Cutoff	alp35(*).ies	CWA	M131	3.7 / 2.1 / 1.8 / 1.6 / 0.9	400
PS	AL3RP-400	BT / ED28	2F, 3F, 4F, 5F, 2H, 3H, 4H, 5H 2V, 3V, 4V, 5V	Full Cutoff Cutoff	alp40(*).ies	CWA	M135 / M155	4.0 / 2.2 / 1.9 / 1.8 / 1.0	456
HPS	AL3RS-250	E18	2H, 3H, 4H, 5H 2V, 3V, 4V, 5V	Full Cutoff Cutoff	als25(*).ies	CWA	\$50	2.7 / 1.6 / 1.3 / 1.2 / 0.7	310
HPS	AL3RS-400	E18	2H, 3H, 4H, 5H 2V, 3V, 4V, 5V	Full Cutoff Cutoff	als40(*).ies	CWA	\$51	4.1 / 2.5 / 2.1 / 1.9 / 1.1	467

Distribution Guide & QL Induction Lighting System Data

Source	Catalog	System	Optics (Distribution)	Cutoff	.ies	System	Line Current	Line
Type	Number	Lamp	(Reflector Type)	Level	File Name ⁶	Generator/Power Coupler	120 / 208 / 240 / 277	Watts
QL	AL3QL-165	165W QL Induction 80 CRI, 12,000 initial lumens	3F, 5F, 3V, 5V	Full Cutoff Cutoff	alq16(*).ies	165W QL 100,000 hour rated system life	1.4 / 0.8 / 0.7 / 0.6	165

Distribution Guide notes:

- 1) The AL3R Series can accommodate a variety of other wattages and lamps. Consult factory.
- 2) PS = Pulse Start, HPS = High Pressure Sodium. Clear HID lamps are recommended for optimum uniformity. QL source available with coated lamp only.
- 3) Replace (*) with optic available for HID units: 2F, 3F, 4F, 5F (Vertical Lamp / Flat Glass / Full Cutoff) 2H, 3H, 4H, 5H (Horizontal Lamp / Flat Glass / Full Cutoff) 2V, 3V, 4V, 5V (Vertical Lamp / Sag Glass / Cutoff)
- 4) CWA = Constant Wattage Autotransformer.

1 @ 909

- 5) Horizontally lamped AL3R reflectors are equipped with POMB sockets. Accommodates standard or high output lamps.
- 6) Replace (*) with the following optic available for QL units:
 3F, 5F (Vertical Lamp / Flat Glass / Full Cutoff)
 3V, 5V (Vertical Lamp / Sag Glass / Cutoff)

Mounting Configurations

Note: 2 @ 120° and 3 @ 120° mounting configurations require Round Poles or use of Round Pole Tenon Adapter.

All other configurations may be used with Round or Square Poles.



2 @ 90°





4 @ 90°



2 @ 180°





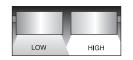
Option details (Factory Installed)

BL Bi-Level

Available for HID vertically lamped units only.

Bi-Level provides high/low level of lamp output with up to 50% power consumption.

Zero crossover network avoids strobing and lamp dropout.



Auxiliary / Emergency Lighting (150 watt quartz lamp, standard)

Combined quartz wattage may not exceed HID lamp wattage. 120V double contact bayonet base, LQ1 requires an interlock by others to ensure HID and quartz source are not operated together.

LQ LiteMatic Hot / Cold Quartz Restrike



Provides LiteMatic quartz auxiliary operation for fixtures with 120V or multi-tap ballasts. 120V auxiliary LiteMatic quartz lamp power supplied by ballast (AC line voltage). Quartz lamp remains on for three minutes after main HID lamp strikes and reaches approximately 40% light output.

Activation: At (initial) Cold Start or Restrike (after a momentary "Brown Out" or extended "Black Out" power interruption), through Run Down, Restrike and Ramo Up.

LQ Auxiliary LiteMatic Quartz Operation







Quartz Lamp Remains on during Ramp Up: Besides providing illumination while the main HID lamp reaches full brightness, the warmth provided by the quartz lamp helps to create a tovaroble restrike condition for the main HID lamp (useful in extreme cold temperatures).

LQ1 Separately Wired (120V) Hot / Cold Quartz Restrike



Externally controlled emergency lighting from a separate power source. Quartz lamp is extinguished once power is restored.

To ensure integrity of the emergency lighting system, LQ1 leads should be hardwired.

Activation: At "Black Out" conditions only. Normal HID operation will occur at all other times.

LQ1 Emergency Quartz Operation



At AC Power Interruption:
During AC line voltage
power interruption, auxiliary
quartz lamp is automatically
energized by separately
wired power source.



Once Power is Restored, Quartz Lamp Automatically Extinquishes:

Used specifically for emergency lighting during "Black Out" periods, or times of extended power interruption. (Takes approximately 3 minutes for HID lamp to reach full brightness.)

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Ballast Fusing	Voltage must be specified.	
F1	Single Fuse, 120 / 277 / 347V Standard unit consists of 1 or 2 KTK 30	
F2	Double Fuse, 208 / 240 / 480V amp fuses mounted internally on the ballast plate.	gen gen gen
F3	Double Fuse, 208 / 240 / 480V (Canadian double pull)	,
Photocontrol	Factory installed through top wall of luminaire. Photocells are not available in 480V.	
TLR	Twist-Lock Receptacle	
TLR-PC120V	Twist-Lock Receptacle with 120V Photocell Puttor	
TLR-PC208V	Twist-Lock Receptacle with 208V Photocell PCB208V 208V Photocell Buttor	
TLR-PC240V	Twist-Lock Receptacle with 240V Photocell PCB240V 240V Photocell Buttor	
TLR-PC277V	Twist-Lock Receptacle with 277V Photocell PCB277V 277V Photocell Buttor	
SLS	Stabilux Socket option	
	Available for horizontally lamped optics only: 2H, 3H, 4H, 5H.	
	Adjustable lamp support, insulated with woven ceramic fabric, helps reduce lamp breakage due to mechanical shock of	and vibration.
HSS	Factory installed Internal House Side Shield option	
	Available for all optics (flat or sag glass, horizontal or vertical lamp). Useful for perimeter areas.	

Accessory details (Field Installed - Shipped Separately)

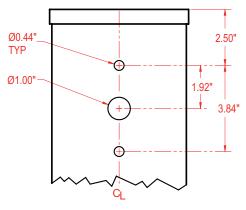
F1-KIT Single Inline Fuse Kit, 120 / 277 /347V

F2-KIT Double Inline Fuse Kit, 208 / 240 / 480V

F3-KIT Double Inline Fuse Kit, 208 / 240 / 480V
(Canadian double pull)

Kit consists of 1 or 2 fuse holders and 1 or 2 KTK 30 amp fuses for field installation.
(Voltage must be specified.)

Drill Template No. 8 (NTS)



SS Arm Mount to Square PoleSR Arm Mount to Round Pole

for 4" - 6" Square Pole or 3.5" - 5" Round Pole

Notes









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