Spectra IV Area Luminaire, 400-1000W HID

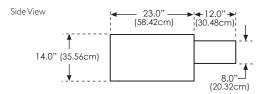


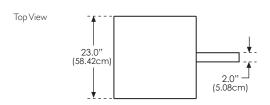
Overall Dimensions

For Reference Only

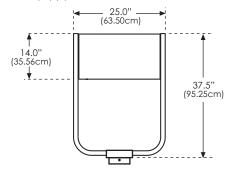
AL4

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





AL4 post top yoke mount (PT(X)R)



EPA Effective Projected Area in Ft²

	Number of Fixtures				
	1	2	3	4	
Arm Mount (SS/SR)	3.6	7.3	8.8	8.8	
Post Top Mount (PT(X)R)	3.6	N/A	N/A	N/A	

See Mounting Configuration chart on page 3.

Weight

90 lbs. (40.82 kgs)

Specifications

Housing

Formed aluminum sheet metal housing and top. The sides and top shall be mechanically and chemically sealed to ensure a rain-tight seal. Standard unit constructed to IP54.

Optical Module

Rotatable multi-faceted segmented reflectors shall be made of high purity, anodized aluminum. Optical assemblies shall be field rotatable at 90° increments and exchangeable.

Vertical lamp orientation and flat glass lens allow the AL4 Series (Spectra IV Area Luminaire) to provide optics meeting the IES definitions of Full Cutoff.

Dark Sky Ordinance compliant.

Lamp Access

Door frame shall be mitered anodized aluminum extrusion, gasketed to ensure a positive seal to the housing.

Lens

Lens shall be tempered glass to withstand thermal and physical shock. (Available with flat glass lens only.)

Socket

A porcelain, 4KV pulse-rated, grip-type, mogul base socket shall be used to prevent lamp loosening and to maintain proper lamp positioning. (1000W HPS socket is 5KV pulse-rated.) Stabilux lamp socket is standard and provides added protection to reduce lamp breakage due to mechanical shock and vibration.

Ballast

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. Class H, 180°C (356°F) rated insulation system.

Mountin

Surface arm mount (field installed) shall be of heavy gauge extruded aluminum. Threaded tension rods shall be used to bolt to square (standard) or round poles. Optional post top mount shall allow fixture to be mounted to square or round poles or tenons

Additional mounting options include an adjustable arm mount, an adjustable mastfitter, and pole top tenon adapters with arm mount for round poles.

Finish

Finish color options include Satin Aluminum, Black, Dark Bronze, White, Grey and Green. Finishes are a polyester powder coating, 2.5 mil nominal thickness, electrostatically applied and oven cured to ensure extreme durability. Other colors may be specified. Decorative striping option also available

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 / Terms and Conditions

Mechanical, finish and electrical shall be covered by a limited 3-year warranty.

The current Philips Wide-Lite Warranty may be found at www.wide-lite.com (keyword: warranty) as well as the current Standard Terms and Conditions of Sale (keyword: terms).

All sales of items in this catalogue shall be subject to the Philips Wide-Lite Standard Terms and Conditions of Sale current at the time of shipment. If you do not have a copy of the Philips Wide-Lite Warranty and Standard Terms, please contact the factory for same prior to ordering.

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.



Spectra IV Area Luminaire, 400-1000W HID

Туре:	Job:					
	Series/Source-Wattage	Voltage	Mounting ²			
	Metal Halide AL4M-1000 ²	Vertical lamp Full Cutoff, Flat Glass 3F Type III	☐ 120 ☐ 208	SS Surface to squar (standar		
	Pulse Start Metal Halide AL4P-400 AL4P-450 AL4P-750	4F Type IV	□ 240 □ 277 □ 480	to round Mounting of arm is		
	☐ AL4P-875 ☐ AL4P-1000	Forward Throw with intermal house side shield	□ QV¹	to squa	ble arm mount re pole transition plate.	
High Pressure Sodium AL4S-400 AL4S-750 AL4S-1000		5F Type V Square		Adjustable mastfitter mount to 2-3/8" O.D. tenon Includes transition plate. RTA-(X)-(Y) ^{5,6} Round pole tenon adapter Slipfitter for Round Pole with 2.375" O.D. x 4" vertical tenon, 6" arm included.		
				☐ PT(XY) ⁷ Post top	o yoke mount	
Options (Factory	Installed)		Finish		Accessories (0)	rdered Separately)
BL Bi-Leve Available for 450 - 8 CSR Hot Qu LQ Hot/Co LQ1 Separa Quartz F1 Single f	al dimming	with Photocell tage, 480V not available. Y Photocell Button tage, 480V not available. AL4 Internal House Side Shiel	BK DB WH	Gray	F2-KIT (()	ingle Fuse Kit 120/277V) Double Fuse Kit 208/240/480V) External Glare Shield = Specify finish

- 1) Allows field selection of 120/208/240/277V. (No 480V) Certain options require voltage selection as well.
- 2) Refer to page 5 for Drill Templates.

 3) X = Specify pole size: (3.5 / 4)" OD; (4 / 5)" OD.
- 4) May be used in the following configurations only: 1 @ 90°; 2 @ 180°.
- 5) X = Specify configuration: 1 @ 90°; 2 @ 90°; 3 @ 90°; 4 @ 90°; 2 @ 180°; 2 @ 120°; 3 @ 120°.

 6) Y = Specify tenon size: 2.375" OD x 4" tall; 3 / 3.5" OD x 6" tall; or 3.5 / 4" OD x 6" tall.
- 7) XY = Specify pole size and type: 4S, 5S, 2.375R, 3R, or 4R.



Spectra IV Area Luminaire, 400-1000W HID

Type: Job: Page 3 of 6

Distribution Guide & Ballast Data¹

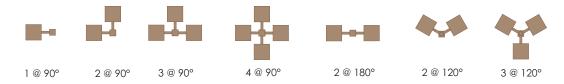
Source Type ²	Catalog Number	Lamp Envelope	Optics (Distribution) (Reflector Type) ⁵	Cutoff Level	.ies File Name³	Ballast Type ⁴	ANSI Code	Line Current 120 / 208 / 240 / 277 / 480	Line Watts
МН	AL4M-1000	BT37	3F, 4F, 5F	Full Cutoff	al4m-1000-(*).ies	CWA	M47 / H36	9.2 / 5.6 / 4.7 / 4.1 / 2.4	1080
PS	AL4P-400	BT / ED37	3F, 4F, 5F	Full Cutoff	al4p-400-(*).ies	CWA	M135 / M155	4.0 / 2.2 / 1.9 / 1.8 / 1.0	456
PS	AL4P-450	BT / ED37	3F, 4F, 5F	Full Cutoff	al4p-450-(*).ies	CWA	M144	4.4 / 2.6 / 2.2 / 1.9 / 1.1	514
PS	AL4P-750	BT37	3F, 4F, 5F	Full Cutoff	al4p-750-(*).ies	CWA	M149	7.0 / 4.0 / 3.5 / 3.0 / 1.7	820
PS	AL4P-875	BT37	3F, 4F, 5F	Full Cutoff	al4p-850-(*).ies	CWA	M166	7.8 / 4.3 / 3.9 / 3.4 / 2.0	945
PS	AL4P-1000	BT37	3F, 4F, 5F	Full Cutoff	al4p-1000-(*).ies	CWA	M141	9.0 / 5.2 / 4.5 / 3.9 / 2.4	1080
HPS	AL4S-400	E18	3F, 4F, 5F	Full Cutoff	al4s-400-(*).ies	CWA	\$51	4.1 / 2.5 / 2.1 / 1.9 / 1.1	467
HPS	AL4S-750	BT37	3F, 4F, 5F	Full Cutoff	al4s-750-(*).ies	CWA	\$111	6.8 / 4.0 / 3.5 / 3.1 / 1.8	840
HPS	AL4S-1000	BT37	3F, 4F, 5F	Full Cutoff	al4s-1000-(*).ies	CWA	\$52	9.5 / 5.5 / 4.8 / 4.2 / 2.5	1100

Notes:

- 1) The Spectra IV (AL4) Series can accommodate a variety of other wattages and lamps. Please consult factory with specific requirements.
- 2) MH = Metal Halide, PS = Pulse Start Metal Halide, HPS = High Pressure Sodium. Clear lamps are recommended for optimum uniformity.
- 3) Replace (*) with optic designation: 3F, 4F, or 5F (Vertical Lamp / Flat Glass / Full Cutoff)
- 4) CWA = Constant Wattage Autotransformer.

Mounting Configurations

Bulletin No. WLSP0127G0412



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.



Spectra IV Area Luminaire, 400-1000W HID

Type: Job: Page 4 of 6

Option details (Factory Installed)

BL

Bi-Level

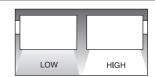
Note:

Available for 450 - 875W units only.

Suitable for HPS in any position. Consult factory when specifying dimming with Metal Halide.

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.

CSR

Hot Quartz Restrike using Current Sensing Relay (without time delay)



Extinguishes auxiliary quartz lamp when arc of the main HID lamp strikes.

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

CSR Auxiliary Quartz Operation







HID Lamp Reaches Full Brightness:

Auxiliary quartz lamp automatically extinguished when main HID lamp strikes. (Takes approximately 3 minutes to reach approx. 40% brightness.)

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 Ramp Up.

LQ Auxiliary LiteMatic Quartz Operation





Quartz lamp energized at initial cold start or at restrike after a temporary power interruption.



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 favorable 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





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.)

Ballast Fusing Voltage must be specified.

F1 Single Fuse, 120 / 277V F2 Double Fuse, 208 / 240 / 480V Standard unit consists of 1 or 2 KTK 30 amp fuses mounted internally on the ballast plate.



Photocontrol Not available in 480V. Factory installed through side wall of luminaire.

TLR Twist-Lock Receptacle

TLR-PC120VTwist-Lock Receptacle with 120V PhotocellPCB120V120V Photocell ButtonTLR-PC208VTwist-Lock Receptacle with 208V PhotocellPCB208V208V Photocell ButtonTLR-PC240VTwist-Lock Receptacle with 240V PhotocellPCB240V240V Photocell ButtonTLR-PC277VTwist-Lock Receptacle with 277V PhotocellPCB277V277V Photocell Button

Factory Installed Internal House Side Shield option

HSS-H-AL4 Internal House Side Shield. Note: AL4 Type IV optics (4F) include an internal house side shield.

DS(XX)Decorative Striping options
Specify color as shown on page 2.

Spectra IV Area Luminaire, 400-1000W HID

Туре:	Job:	Page 5 of 6

Accessory details (Field Installed - Shipped Separately)

F1-KIT Single inline Fuse Kit, 120 / 277V **F2-KIT** Double inline Fuse Kit, 208 / 240 / 480V

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

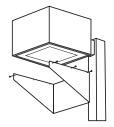
SK-AL4-(F)

External Glare Shield

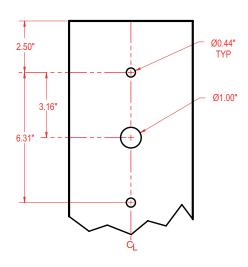
F = Specify finish.

Field installed accessory provides advanced directional control of spill light. Mounts to housing.

Recommended finish is BK (Black).



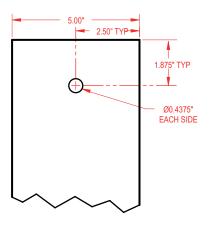
Drill Template No. 11 (NTS)



- **SS** Arm Mount to Square Pole
- SR Arm Mount to Round Pole
- **SA2** Adjustable Arm Mount to Square Pole

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

Drill Template No. 12 (NTS)



PT Post Top Mount to 5" Square Pole



Spectra IV Area Luminaire, 400-1000W HID

Туре:	Job:	Page 6 of 6
-------	------	-------------

Notes







