

AL2 Series

Spectra II Area Luminaire, 70-150W HID

| | | | | | | |
|-----------------------|--------------------------|---------|----------|--------------------------------|--------|----------------------------------|
| Type: | Job: | | | | | Approvals: |
| Catalog Number: | | | | | | |
| Series/Source-Wattage | Optics (Distribution) | Voltage | Mounting | Options (Factory Installed) | Finish | Accessories (Field Installed) |

Date:
Page 1 of 4

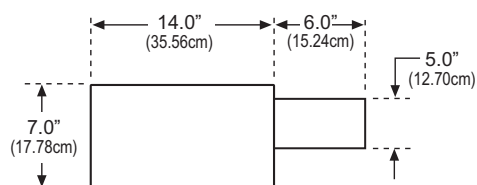
Overall Dimensions

For Reference Only

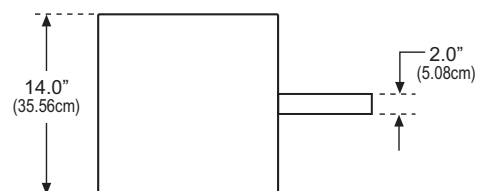
AL2

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

Side View



Top View



EPA Effective Projected Area in Ft²

| Arm Mount (SS) | Number of Fixtures | | | |
|----------------|--------------------|-----|-----|-----|
| | 1 | 2 | 3 | 4 |
| | 1.1 | 2.2 | 2.8 | 2.8 |

Note: AL2 available with Flat Lens only.

Consult Mounting Configuration chart on page 3 and contact factory for corresponding EPA data.

Weight

30 lbs. (13.6 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. The combination of horizontal lamp orientation and flat glass lens allows the 14" AL2 Series (Spectra II Area Luminaire) to meet the IES definition of Full Cutoff and is Dark Sky Ordinance compliant.

Lamp Access

Door frame shall be mitered anodized aluminum extrusion, gasketed to ensure a positive seal to the housing while accommodating a flat glass lens.

Lens

Lens shall be tempered glass to withstand thermal and physical shock.

Socket

A porcelain, 4KV pulse-rated, grip-type medium base socket shall be used for PSMH units to prevent lamp loosening and to maintain proper lamp positioning. Mogul base socket shall be used for HPS units.

Ballast

High power factor constant-wattage autotransformer (CWA) ballast with reliable starting to 29°C (-20°F) for Metal Halide, -34°C (-30°F) for Pulse Start Metal Halide, -40°C (-40°F) for High Pressure Sodium.

180°C (356°F) Class H insulation system. Crest factor does not exceed 1.8.

Mounting

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. Additional mounting options include direct mount to square pole, an adjustable arm mount, an adjustable mastfitter, a wall mount bracket (with or without 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. Decorative striping option also available.

Listings

ETL/cETL Listed luminaire 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

Standard 3 Year Limited 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.











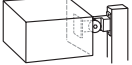
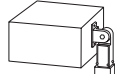
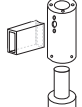
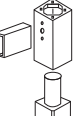
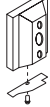
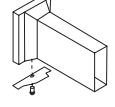
Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled 'Contain Mercury' and/or with the symbol 'Hg'. Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycle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

AL2 Series

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| | | |
|-------|------|-------------|
| Type: | Job: | Page 2 of 4 |
|-------|------|-------------|



| Series/Source-Wattage | Optics (Distribution) ¹ | Voltage | Mounting ³ |
|---|---|---|--|
| Pulse Start Metal Halide <input type="checkbox"/> AL2P-70 <input type="checkbox"/> AL2P-100 <input type="checkbox"/> AL2P-150  | <input type="checkbox"/> 2H Type II Horizontal <input type="checkbox"/> 3H Type III Horizontal <input type="checkbox"/> 4H Type IV Horizontal <input type="checkbox"/> 5H Type V Horizontal Distribution Patterns <i>Basic Roadway Distribution Patterns as follows:</i>  Type II  Type III  Type IV Forward Throw  Type V Square | <input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480 <input type="checkbox"/> QV ² | <input type="checkbox"/> SS Surface arm mount to square pole (standard)  <input type="checkbox"/> SR(X) ⁴ Surface arm mount to round pole <i>Mounting edge of arm is contoured to match pole radius.</i>  <input type="checkbox"/> DM Direct mount to square pole <i>Luminaire housing mounts flush to pole without the use of mounting arms. 1 @ 90 or 2 @ 180 mount only.</i>  <input type="checkbox"/> SA2 Adjustable arm mount to square pole <i>Includes transition plate.</i>  <input type="checkbox"/> MA2 Adjustable mastfitter mount to 2-3/8" O.D. tenon <i>Includes transition plate.</i>  <input type="checkbox"/> RTA-(X)-(Y) ^{5,6} Round pole tenon adapter <i>Slipfitter for Round Pole with 2.375" O.D. x 4" vertical tenon, 6" arm included.</i>  <input type="checkbox"/> SPTA-(X)-2.375 ⁵ Square pole tenon adapter <i>Slipfitter for Square Pole with 2.375" O.D. x 4" vertical tenon, 6" arm included.</i>  <input type="checkbox"/> WB Wall mount bracket  <input type="checkbox"/> WBA Wall mount bracket with 6" arm  |

| Options | Finish | Accessories (Ordered Separately) |
|--|---|---|
| <input type="checkbox"/> CSR Hot Quartz Restrike (150 watt quartz lamp) <input type="checkbox"/> LQ Hot/Cold Quartz Restrike (150 watt quartz lamp) <input type="checkbox"/> F1 Single Fuse (120/277/347V) <input type="checkbox"/> F2 Double Fuse (208/240/480V) <input type="checkbox"/> F3 Double Fuse (208/240/480V) (Canadian Double Pull) <input type="checkbox"/> TLR Twist-Lock Photocell Receptacle (top installation) <input type="checkbox"/> TLR-PC(***)V Twist-Lock Receptacle with Photocell (top installation) <i>Specify voltage, 480V not available.</i> <input type="checkbox"/> PCB(***)V Photocell Button (side wall installation) <i>Specify voltage, 480V not available.</i> <input type="checkbox"/> DS02 Black decorative striping <input type="checkbox"/> DS04 Red decorative striping <input type="checkbox"/> DS03 Gold metallic decorative striping <input type="checkbox"/> DS05 Silver metallic decorative striping | <input type="checkbox"/> TSA Textured Satin Aluminum <input type="checkbox"/> TDB Textured Dark Bronze <input type="checkbox"/> TBK Textured Black <input type="checkbox"/> TWHT Textured White <input type="checkbox"/> TGR Textured Gray <input type="checkbox"/> TGN Textured Green <input type="checkbox"/> RAL(*) Special Tiger Drylac® powder coat finish <i>(*) Specify RAL color number from RAL color chart (Consult factory.)</i> | <input type="checkbox"/> F1-KIT Single Fuse Kit (120/277/347V) <input type="checkbox"/> F2-KIT Double Fuse Kit (208/240/480V) <input type="checkbox"/> F3-KIT Double Fuse Kit (208/240/480V) (Canadian Double Pull) <input type="checkbox"/> SK-AL2-(F) External Glare Shield F = Specify finish |

Notes

- 1) AL2 Series is not available with Vertical Lamp or Sag Glass.
- 2) Allows field selection of 120/208/240/277 voltage. (No 480V). Certain options may require voltage selection as well.
- 3) Refer to page 4 for Drill Template No. 8.

4) X = Specify pole size: (3.5 / 4)" OD; (4 / 5)" OD.

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; 3.5 / 4" OD x 6" tall.

AL2 Series

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| | | |
|-------|------|-------------|
| Type: | Job: | Page 3 of 4 |
|-------|------|-------------|

Distribution Guide & Ballast Data¹

| Source Type ² | Catalog Number | Lamp Envelope | Reflector Type ³ | Cutoff Level | .ies File Name ⁴ | Ballast Type ⁵ | ANSI Code | Line Current ⁶ 120 / 208 / 240 / 277 / 480 | Line Watts |
|--------------------------|-----------------|---------------|-----------------------------|--------------|-----------------------------|---------------------------|-------------|--|------------|
| PS | AL2P-70 | ED / BT17 | 2H, 3H, 4H, 5H | Full | al2p7(*).ies | HX-HPF | M98 / M143 | 1.9 / 1.0 / 0.9 / 0.8 / 0.5 | 95 |
| PS | AL2P-100 | ED / BT17 | 2H, 3H, 4H, 5H | Full | al2p10(*).ies | HX-HPF | M90 / M140 | 2.8 / 1.4 / 1.4 / 1.2 / 0.6 | 130 |
| PS | AL2P-150 | ED / BT17 | 2H, 3H, 4H, 5H | Full | al2p15(*).ies | HX-HPF | M102 / M142 | 3.7 / 2.1 / 1.8 / 1.6 / 1.0 | 185 |
| HPS | AL2S-70 | E23.5 | 2H, 3H, 4H, 5H | Full | al2s7(*).ies | HX-HPF | S62 | 1.7 / 1.0 / 0.9 / 0.8 / 0.4 | 94 |
| HPS | AL2S-100 | E23.5 | 2H, 3H, 4H, 5H | Full | al2s10(*).ies | HX-HPF | S54 | 2.3 / 1.3 / 1.1 / 1.0 / 0.6 | 135 |
| HPS | AL2S-150 | E23.5 | 2H, 3H, 4H, 5H | Full | al2s15(*).ies | HX-HPF | S55 | 3.2 / 1.7 / 1.6 / 1.4 / 0.7 | 195 |

1) The Spectra AL2 Series can accommodate a variety of other wattages and lamps. Consult factory.

3) H Optics = Horizontal Lamp, Flat Glass, Full Cutoff.

6) For 70-100W luminaires, consult factory to verify the accuracy of the Line Current / Line Watts data shown.

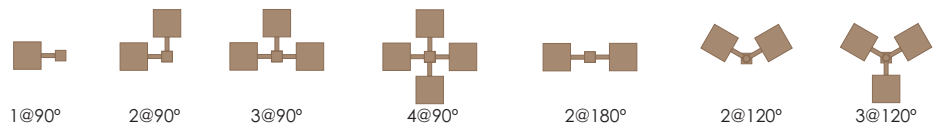
2) PS = Pulse Start Metal Halide, HPS = High Pressure Sodium. Clear lamps recommended.

4) Replace (*) with chosen Reflector Type: 2H, 3H, 4H, or 5H.

5) CWA = Constant Wattage Autotransformer, HX-HPF = High Reactance High Power Factor.

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.



Option details (Factory Installed)

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

Combined quartz wattage may not exceed HID lamp wattage. 120V double contact bayonet base.

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



Normal Start:
Quartz lamp energized until main HID lamp strikes.



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



Normal Start:
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).

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 Photocells are not available in 480V.

TLR and TLR-PC are factory installed through top wall of luminaire.

| | |
|-------------------|---|
| TLR | Twist-Lock Receptacle |
| TLR-PC120V | Twist-Lock Receptacle with 120V Photocell |
| TLR-PC208V | Twist-Lock Receptacle with 208V Photocell |
| TLR-PC240V | Twist-Lock Receptacle with 240V Photocell |
| TLR-PC277V | Twist-Lock Receptacle with 277V Photocell |

PCB photocell buttons are factory installed through side wall of luminaire.

| | |
|----------------|-----------------------|
| PCB120V | 120V Photocell Button |
| PCB208V | 208V Photocell Button |
| PCB240V | 240V Photocell Button |
| PCB277V | 277V Photocell Button |

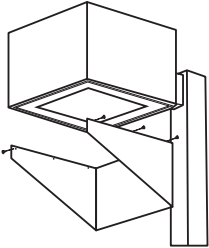
AL2 Series

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| | | |
|-------|------|-------------|
| Type: | Job: | Page 4 of 4 |
|-------|------|-------------|

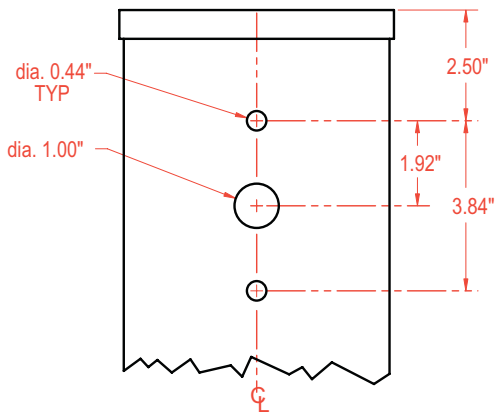
Accessory details (Field Installed - Shipped Separately)

| | |
|--------|---|
| F1-KIT | Single Fuse Kit, 120 / 277V |
| F2-KIT | Double Fuse Kit, 208 / 240 / 480V |
| | Kit consists of 1 or 2 inline KTK 30 amp fuses for field installation. (Voltage must be specified.) |

| | |
|------------|--|
| SK-AL2-(F) | External Glare Shield |
| | F = Specify finish. |
| | Field installed accessory provides advanced directional control of spill light. Mounts to housing. |
| | Recommended finish is TBK (Textured Black). |
| |  |

Notes

Drill Template No. 8 (NTS)



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

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

