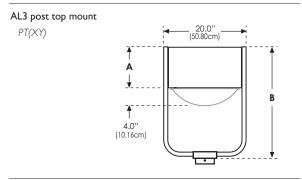
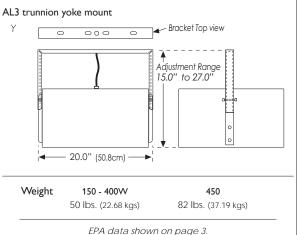
Spectra III Area Luminaire, 150-450W HID



Overall Dimensions For Reference Only 150-400 Watt, non dimming unit A = 10.00" (25.40cm) B = 27.25" (69.22cm) 450 Watt non dimming or 150-400 Watt Bi-Level unit B = 29.25" (74.30cm)

AL3 arm mount SS Surface Arm Mount to Square Pole (standard) 4.0" (10.16cm) Top View 18.0" (45.72cm) 18.0" (12.70cm) (5.08cm)





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 "Super Sheet" aluminum with an inorganic dielectric coating, producing a minimum reflectivity of 94% for optimum efficiency. Optical assemblies shall be field rotatable at 90° increments and exchangeable. Lamp orientation and lens flexibility allow the AL3 Series (Spectra III Area Luminaire) to provide optics meeting the IES definitions of Full Cutoff, Cutoff, and Semi-Cutoff. "F" optics (available for 400W max Pulse Start Metal Halide only) combine standard flat glass lens with vertical lamp orientation to achieve 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.

Lens

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

Socket

A porcelain, 4KV pulse-rated, grip-type, mogul based socket shall be used to prevent lamp loosening and to maintain proper lamp positioning. Optional Stabilux lamp socket is available for horizontal lamps to provide 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.

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. Optional post top mount shall allow fixture to be mounted to square or round poles or tenons. Additional mounting options include direct mount to square pole, an adjustable arm mount, an adjustable mastfitter, a wall mount bracket (with or without arm), a trunnion yoke mount, and pole top tenon adapters with arm mount for square and 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. Warranty is 1-year when purchased with the ASL (acrylic sag lens) option.

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



Al 3 Series

Spectra III Area Luminaire, 150-450W HID

Page 2 of 6 Series/Source-Wattage¹ Optics (Distribution) Voltage Mounting⁷ AL3 Type IV optics include an Pulse Start Metal Halide 120 □ ss Surface arm mount internal house side shield. Consult factory to specify Type IV optics without to square pole ■ AL3P-150 (standard) **208** AL3P-175 Vertical lamp ☐ SR(X)⁸ Surface arm mount Full Cutoff, Flat Glass 4 to round pole **2**40 AL3P-250 Mounting edge of arm is contoured □ 2F Type II to match pole radius AL3P-320 277 □ 3F Type III HIBRED Arm System (HID/LED Night Ambient Series (HIB) Π ΔΙ 3P-350 See current HIBRED spec sheet WLSP0278 to specify AL3 □ 4F Type IV **480** HIBRED system. Not available in 480V. AL3P-400 □ 5F Type V Direct mount to square pole □ QV⁶ ■ AL3P-450^{2,3} Luminaire housing mounts flush to pole without the use of mounting arms. 1@90 or 2@180 mount only. Vertical lamp Cutoff / Semi-Cutoff, Sag Glass 5 □ 2V Type II Adjustable arm mount to square pole Includes transition plate 3V III aqvT ☐ MA2 Adjustable mastfitter mount to Type IV 2-3/8" O.D. tenon Includes transition plate. □ 5V Type V ☐ RTA-(X)-(Y) 10,11 Round pole tenon High Pressure Sodium Horizontal lamp adapter Full Cutoff, Flat Glass ☐ AL3S-150 Slipfitter for Round Pole with 2.375" O.D. x 4' vertical tenon, 9" arm included. ☐ 2H Type II ☐ AL3S-250 ☐ SPTA-(X)-2.375¹⁰ Square pole tenon adapter ☐ 3H III aqvT Slipfitter for Square Pole with 2.375" O.D. x 4" AL3S-400 vertical tenon, 9" arm included. ☐ 4H Type IV ■ WB ☐ WBA □ 5H Type V Wall mount Wall **Distribution Patterns** mount bracket with 6" arm bracket ☐ PT(XY)¹² \square Y Post top Trunnion yoke yoke mount mount Type IV Forward Thro -**Finish**



- 1) Depth of housing dependent on wattage
- 2H reflector not available.
- 3) Vertical burn lamp only, at time of publication.
- 4) 400 watt and below, Pulse Start Metal Halide only.
- Cutoff distribution at 150-400 watts. Semi-Cutoff at 450 watts.

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- 6) Allows field selection of 120/208/240/277V. (No 480V) Certain options require voltage selection as well.
- Refer to page 6 for Drill Templates.
- 8) X = Specify pole size: (3.5 / 4)" OD; (4 / 5)" OD.
- May be used in the following configurations only: 1 @ 90°; 2 @ 180°.
- 10) X = Specify configuration: 1 @ 90°; 2 @ 90°; 3 @ 90°; 4 @ 90°; 2 @ 180°; 2 @ 120°; 3 @ 120°.

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

Philips Wide-Lite reserves the right to change specifications and dimensions without notice. Lamp and electrical specifications / availability subject to change by manufacturer without notice. Please refer to detailed specification sheets for additional information and spec details. 1611 Clovis Barker Road • San Marcos, TX 78666 • Phone: 512,392,5821 • Fax: 512,753,1122 • www.wide-lite.com © 2010 Philips Group. All rights reserved.



Spectra III Area Luminaire, 150-450W HID

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Distribution Guide & Ballast Data¹

Source Type ²	Catalog Number	Lamp Envelope	Housing Depth	Reflector Type ^{5,6}	Cutoff Level	.ies File Name ³	Ballast Type ⁴	ANSI Code	Line Current ⁶ 120/208/240/277/480	Line Watts
PS	AL3P-150	BT / ED28	10"	2V, 3V, 4V, 5V 2F, 3F 4F, 5F	Cutoff Full Cutoff	alp15(*).ies	HX-HPF	M102 / M142	3.7 / 2.1 / 1.8 / 1.6 / 1.0	185
PS	AL3P-175	BT / ED28	10" (12" w/ Bi-Level)	2V, 3V, 4V, 5V 2F, 3F 4F, 5F, 2H, 3H, 4H, 5H	Cutoff Full Cutoff	alp17(*).ies	CWA	M137 / M152	2.0 / 1.1 / 0.9 / 0.8 / 0.5	220
PS	AL3P-250	BT / ED28	10" (12" w/ Bi-Level)	2V, 3V, 4V, 5V 2F, 3F 4F, 5F, 2H, 3H, 4H, 5H	Cutoff Full Cutoff	alp25(*).ies	CWA	M138 / M153	2.8 / 1.5 / 1.3 / 1.2 / 0.6	298
PS	AL3P-320	BT / ED28	10" (12" w/ Bi-Level)	2V, 3V, 4V, 5V 2F, 3F, 4F, 5F, 2H, 3H, 4H, 5H	Cutoff Full Cutoff	alp32(*).ies	CWA	M132 / M154	3.3 / 1.9 / 1.7 / 1.4 / 0.8	368
PS	AL3P-350	BT / ED28	10" (12" w/ Bi-Level)	2V, 3V, 4V, 5V 2F, 3F, 4F, 5F, 2H, 3H, 4H, 5H	Cutoff Full Cutoff	alp35(*).ies	CWA	M131	3.7 / 2.1 / 1.8 / 1.6 / 0.9	400
PS	AL3P-400	BT / ED28	10" (12" w/ Bi-Level)	2V, 3V, 4V, 5V 2F, 3F, 4F, 5F, 2H, 3H, 4H, 5H	Cutoff Full Cutoff	alp40(*).ies	CWA	M135 / M155	4.0 / 2.2 / 1.9 / 1.8 / 1.0	456
PS	AL3P-450	BT / ED37	12"	2V, 3V, 4V, 5V	Semi Cutoff	alp45(*).ies	CWA	M144	4.4 / 2.6 / 2.2 / 1.9 / 1.1	514
HPS	AL3S-150	E23½	10"	2V, 3V, 4V, 5V 2F, 3F 4F, 5F, 2H, 3H, 4H, 5H	Cutoff Full Cutoff	als15(*).ies	HX-HPF	S55	3.2 / 1.7 / 1.6 / 1.4 / 0.7	195
HPS	AL3S-250	E18	10" (12" w/ Bi-Level)	2V, 3V, 4V, 5V 2H, 3H, 4H, 5H	Cutoff Full Cutoff	als25(*).ies	CWA	S50	2.7 / 1.5 / 1.3 / 1.2 / 0.7	310
HPS	AL3S-400	E18	10" (12" w/ Bi-Level)	2V, 3V, 4V, 5V 2H, 3H, 4H, 5H	Cutoff Full Cutoff	als40(*).ies	CWA	S51	4.1 / 2.5 / 2.1 / 1.9 / 1.1	467

- (1) The Spectra AL3 Series can accommodate a variety of other wattages and lamps. Please consult factory with specific requirements.
- (2) PS = Pulse Start Metal Halide, HPS = High Pressure Sodium. Clear lamps are recommended for optimum uniformity.
- (3) Replace (*) with Reflector Type: 2V, 3V, 4V, 5V (Vertical Lamp / Sag Glass: Cutoff: 150-400W, Semi-Cutoff: 450W) (Vertical Lamp / Flat Glass / Full Cutoff) 2H, 3H, 4H, 5H (Horizontal Lamp / Flat Glass / Full Cutoff)
- (4) CWA = Constant Wattage Autotransformer; HX-HPF = High Reactance High Power Factor.
- (5) All Horizontal Lamp Al.3 reflectors are equipped with POMB sockets and can accommodate Standard or High Output Lamps.

 (6) Internal house side shield is standard on Al.3 Type IV optics.

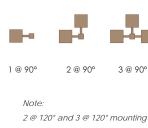
 Consult factory to specify Type IV optics without internal house side shield.

 Consult factory for photometry.

EPA Effective Projected Area in Ft² EPA calculations confirmed by wind tunnel testing.

Arm Mount (SS)	10" deep flat glass	10" deep sag glass	12" deep flat glass	12" deep sag glass
1@90°	1.9	2.1	2.2	2.3
2@90°	3.8	4.2	4.3	4.7
2@180°	3.8	4.2	4.3	4.7
3 @ 90°	4.8	5.6	5.6	6.1
3@120°	4.8	5.6	5.6	6.1
4 @ 90°	5.0	5.9	5.9	6.4
Post Top Mount	2.2	2.4	2.5	2.7

Mounting Configurations





2 @ 180°





2 @ 120°



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.

4 @ 90°





Spectra III Area Luminaire, 150-450W HID

Type: Page 4 of 6

Option details (Factory Installed)

Bi-Level

BL

Note:

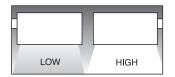
Suitable for HPS in any aiming position. Consult factory when specifying dimming

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.

Not available with HX-HPF ballasts.



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 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 requires an interlock by others to ensure HID and quartz source are not operated together.

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.



Automatically Extinguishes:

Used specifically for emergency lighting during Black Out" periods, or times of extended powe 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.

Factory installed fusing options are not available for 450 watt units.

See inline fusing accessories F1-KIT and F2-KIT.



Photocontrol Not available in 480V.

Not available for 450 watt units.

Factory installed through top wall of luminaire.

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

Factory installed through side wall of luminaire.

PCB120V 120V Photocell Button PCR208V 208V Photocell Button PCB240V 240V Photocell Button PCB277V 277V Photocell Button



TLR

Spectra III Area Luminaire, 150-450W HID

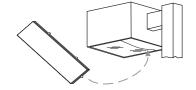
Type: Page 5 of 6

Option details (continued)

Factory Installed Internal House Side Shield options Note: All standard AL3 Type IV optics include internal house side shield.

HSS-H-AL3 Internal House Side Shield for Flat Lens optics: Type II, Type III, or Type V

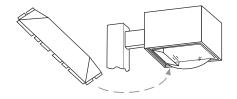
(also available as a field installed accessory)



HSS-V-AL3

Internal House Side Shield for Sag Lens optics: Type II, Type III, or Type V

(also available as a field installed accessory)



ASL

Acrylic Sag Lens option

Available for 250 watt and below only.

Cost efficient alternative to conventional glass sag lens.

Consult factory for per fixture savings with this option.

One year warranty.



SLS

Stabilux Socket option

Available for horizontally lamped optics only: 2H, 3H, 4H, 5H.

Adjustable lamp support, insulated with woven ceramic fabric, for applications requiring added protection to reduce

lamp breakage due to mechanical shock and vibration.

DS(XX)

Bulletin No. WLSP0126J0512

Decorative Striping options Specify color as shown on page 2.



Spectra III Area Luminaire, 150-450W HID

Type: Job: Page 6 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.

field installation. (Voltage must be specified.)

Field installed internal house side shield accessories:

AL3 internal house side shields may be ordered as factory installed options or field installed accessories.

HSS-H-AL3 Internal House Side Shield

For use with Flat lens optics: Type II, Type III, or Type V.

HSS-V-AL3 Internal House Side Shield

For use with Sag lens optics: Type II, Type III, or Type V.

Note:

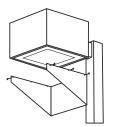
All AL3 Type IV optics include an internal house side shield.

SK-AL3-(F) External Glare Shield

F = Specify finish.

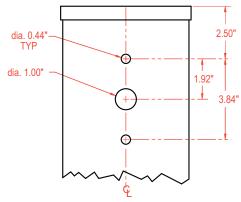
Field installed accessory provides advanced directional control of spill light. Mounts to housing.

Recommended finish is BK (Black)



Notes

Drill Template No. 8 (NTS)



DM Direct Mount to Square Pole

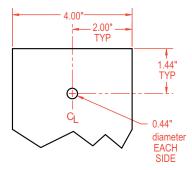
SS Arm Mount to Square Pole

SR Arm Mount to Round Pole

SA2 Adjustable Arm Mount to Square Pole

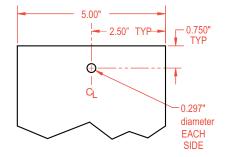
4"-6" Square Pole or 3.5"-5" Round Pole

Drill Template No. 9 (NTS)



PT Post Top Mount to 4" Square Pole

Drill Template No. 10 (NTS)



PT Post Top Mount to 5" Square Pole







