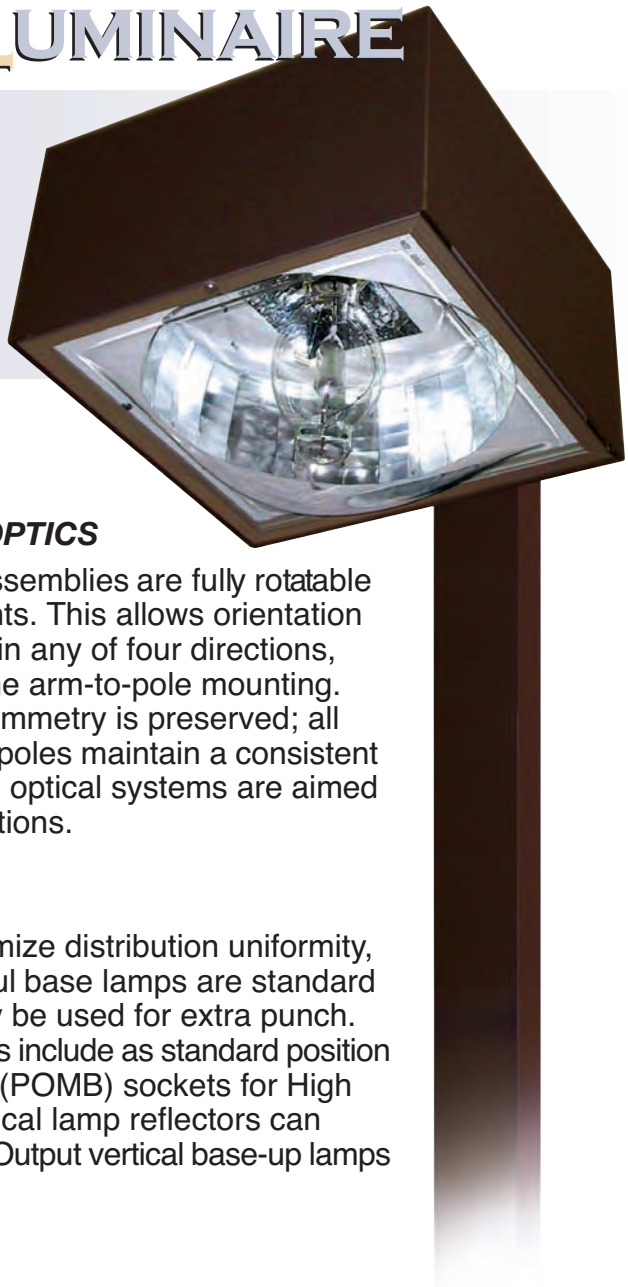
Performance Cutoff Area Lighting for Architectural Outdoor Environments

SPECTRA III AREA LUMINAIRE

ISO 9001 Certified

WideLite®
a GENLYTE THOMAS company

Spectra III Area Luminaire



Wide-Lite's newest site lighting fixture – the Spectra III Area Luminaire (AL3), is designed to complement any architectural outdoor setting.

Incorporating an extensive array of high-performance optics with modern cutoff lighting requirements, the AL3 has the flexibility required to meet your area lighting needs with a minimum number of fixtures.

CUTOFF CLASSIFICATION

The quality of a cutoff luminaire is in its ability to control and distribute light. The AL3 optical system is designed to produce maximum candlepower at high angles while ensuring that issues of light trespass and glare are brought under control. AL3 optics are available in IESNA Semi Cutoff, Cutoff and Full Cutoff options.

ROTATABLE OPTICS

AL3 reflector assemblies are fully rotatable in 90° increments. This allows orientation of distributions in any of four directions, regardless of the arm-to-pole mounting. Architectural symmetry is preserved; all luminaires and poles maintain a consistent alignment while optical systems are aimed in various directions.

LAMP ORIENTATION

Lamp positions include vertical, to maximize distribution uniformity, and horizontal, to create full cutoff. Mogul base lamps are standard for the AL3, but High Output Lamps may be used for extra punch. Horizontal Lamp Reflectors include as standard position oriented mogul base (POMB) sockets for High Output Lamps. Vertical lamp reflectors can accommodate High Output vertical base-up lamps as well.

COOL, QUIET DESIGN

All AL3 ballasts are mounted to a removable ballast tray for maximum heat dissipation and accessibility.

95% REFLECTIVE SEGMENTED OPTICS

All AL3 multifaceted segmented reflectors utilize the highest grade material available: highly reflective "Super Sheet" with an inorganic dielectric coating.

PRIMARY PATH & PRIMARY IMAGE

Computer-optimized and balanced, Primary Path Optics eliminate light being redirected back through the arc tube as well as another reflector segment. Combined with Primary Image reflector designs to maximize reflector performance characteristics, Wide-Lite designs offer higher luminaire efficiencies and more effective light distribution patterns.

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Lighting designers & specifiers contend with two subjective performance criteria in any lighting application:

- **Minimum footcandle requirements**
- **Maximum to minimum ratio requirements**

Due to changing ordinances, a third lighting criterion must also be considered:

- ***Cutoff performance***: a luminaire's ability to eliminate obtrusive glare caused by high angle illumination, thereby complying with newer Light Trespass and Dark Sky Ordinances.

Wide-Lite's new **SPECTRA III AREA LUMINAIRE** (AL3) addresses all three specification issues in ***one*** product for contemporary environments.

Briefly, IES Cutoff definitions are:

Semi-Cutoff:

Less than 5% of light from fixture exits at an angle of 90°, and less than 20% of total output exits at 80°.

Cutoff:

Less than 2.5% of light from fixture may exit at a 90° angle. Less than 10% of light from fixture may exit at an 80° angle.

Full Cutoff:

All light from fixture must exit below a 90° angle. Less than 10% of total light output may exit at 80°. (Typically Flat Glass Lens).

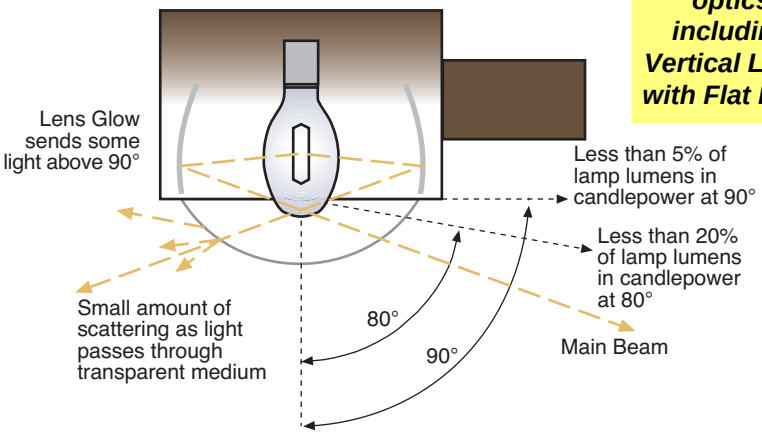
All AL3 Cutoff and Semi-Cutoff fixtures emit less than 2% of their total lumen output in the 90° to 180° range. Full Cutoff AL3's meet IES "0%" standards above 90°.

Many municipalities have existing or pending legislation mandating the use of full cutoff fixtures to reduce "Sky Glow" or light pollution, and the obvious waste of energy. As these "Dark Sky" ordinances vary widely, AL3 optics have been designed to provide flexibility in meeting many different requirements.

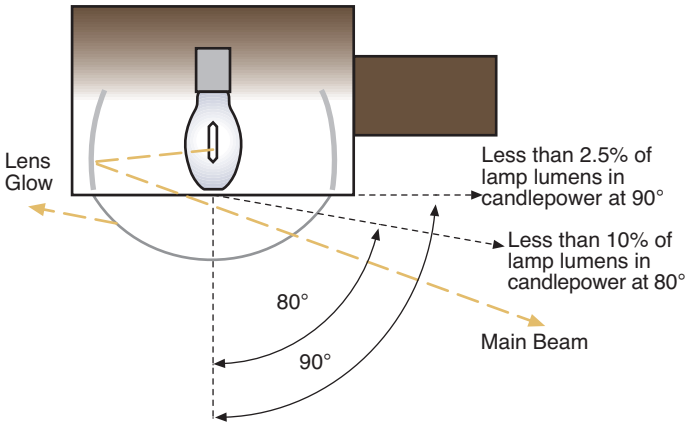
AL3 CUTOFF OPTIONS

See current product Specification Sheet for complete listing of available optics including Vertical Lamp with Flat Lens

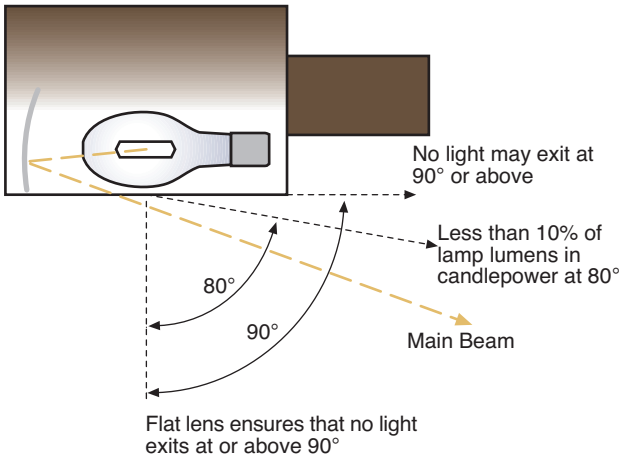
SEMI CUTOFF
AL3 450W – 1000W
Vertically Lamped Reflector with Sag Lens



CUTOFF
AL3 175W – 400W
Vertically Lamped Reflector with Sag Lens



FULL CUTOFF
AL3 175W – 1000W
Horizontally Lamped Reflector with Flat Lens



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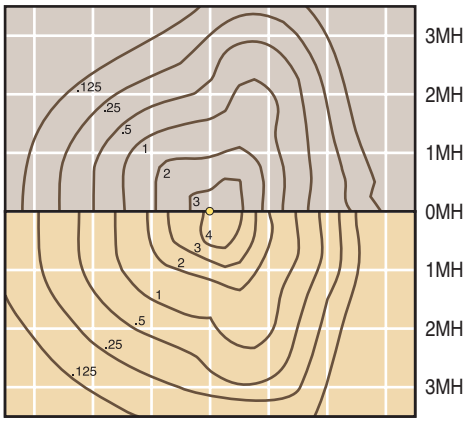
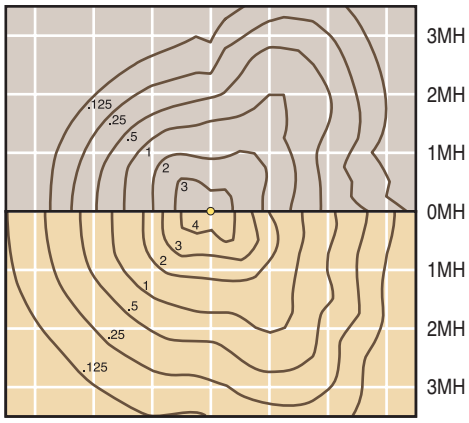
ALM-400-2V



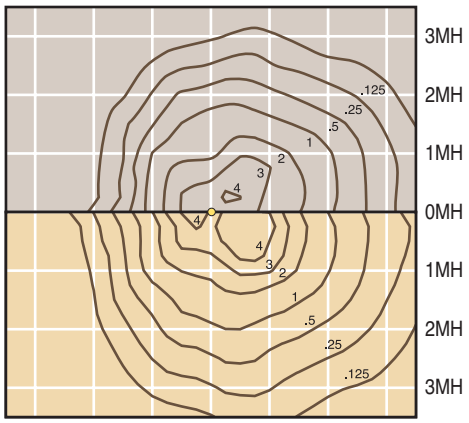
ALS-400-2V

ALM-400-3V



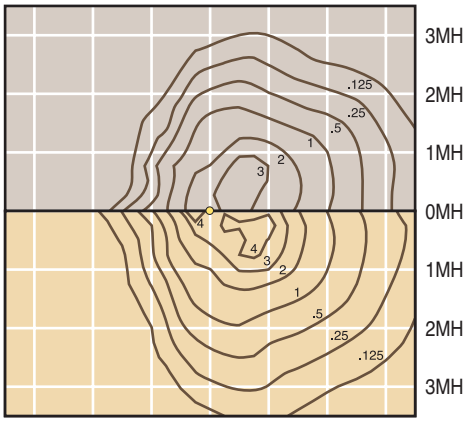
ALS-400-3V

ALM-400-4V



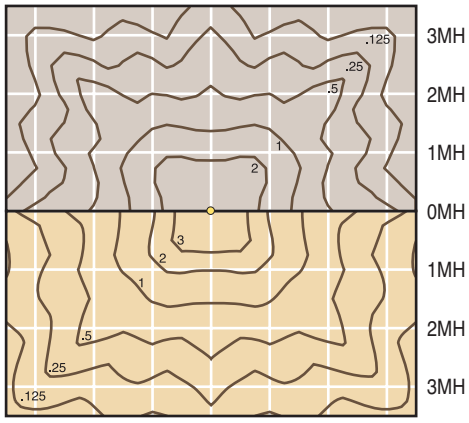
ALS-400-4V

ALM-400-4VS



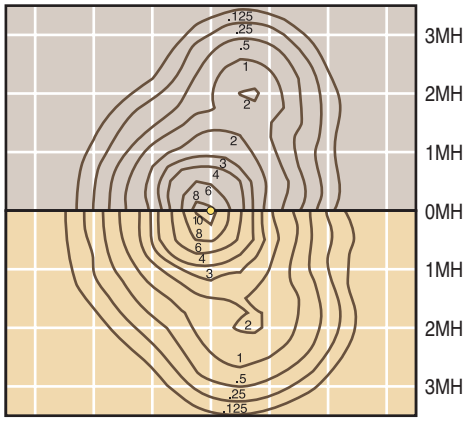
ALS-400-4VS

ALM-400-5V



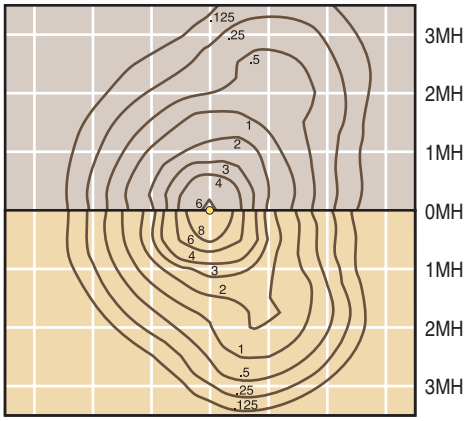
ALS-400-5V

ALM-400-2H



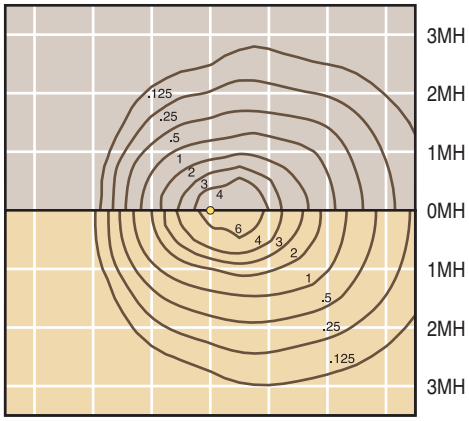
ALS-400-2H

ALM-400-3H



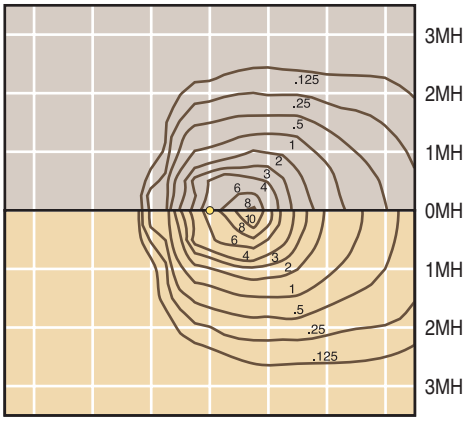
ALS-400-3H

ALM-400-4H



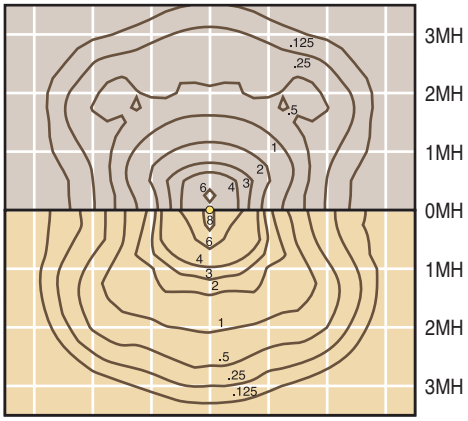
ALS-400-4H

ALM-400-4HS



ALS-400-4HS

ALM-400-5H

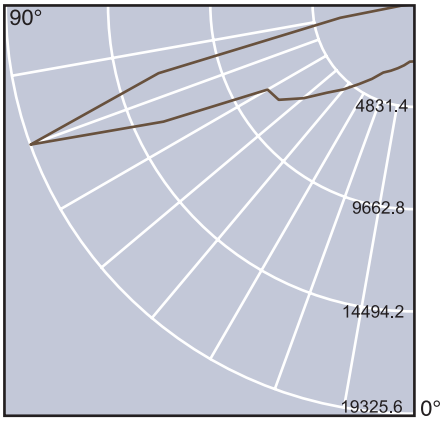


ALS-400-5H

CONVERSION MULTIPLIERS

Lamp	Mounting Heights (in feet) 20	25	30	35	40
400W HPS 50,000 lumens	2.3	1.4	1	0.74	0.56
400W MH 36,000 lumens	2.3	1.4	1	0.74	0.56
250W HPS 30,000 lumens	1.4	0.86	0.6	0.44	0.36
250W MH 20,500 lumens	1.2	0.72	0.51	0.38	0.29

ALM-400-3V POLAR GRAPH



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Spectra III • Mounting Options

The AL3 is adaptable to virtually any type of new or retrofit construction. Both arm mounted and post top models fit to round or square poles as noted below. Adding an adjustable mastfitter or wall bracket creates broad mounting flexibility.

DM = Direct Mount to Square Pole.

SS = 9” Arm Mount to Square Pole.

SR(X) = 9” Arm Mount to Round Pole; (x) Specify pole or tenon size, 3.5”–4” OD or 4”–5” OD.

SA2 = Adjustable Arm Mount to Square Pole.

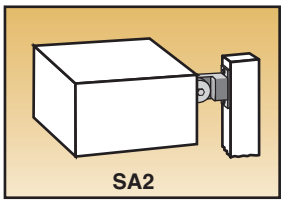
MA2 = Adjustable Mastfitter Mount to 2.375” OD Tenon.

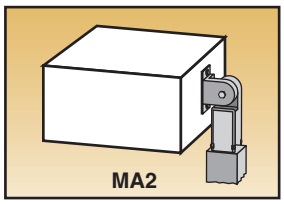
RTA-(X)-(Y) = Round Tenon Adapter; (x) Specify configuration:1 @ 90°; 2 @ 90°; 2 @ 120°; 2 @ 180°; 3 @ 90°; 3 @ 120°; 4 @ 90°. (y) = Specify tenon size: 2.375” OD x 4”; 3”–3.5” OD x 6”; 3.5”–4” OD x 6”.

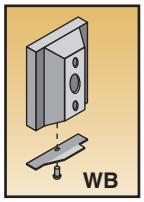
PT(XY) = Post Top Yoke Mount to 4” and 5” square poles, and to 2.375”, 3” and 4” round poles; (xy) Specify pole size and type: **PT4R**

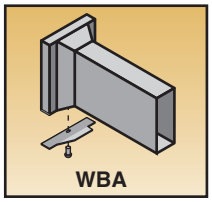
WB = Wall Mount Bracket.

WBA = Wall Mount Bracket with 9” Arm.

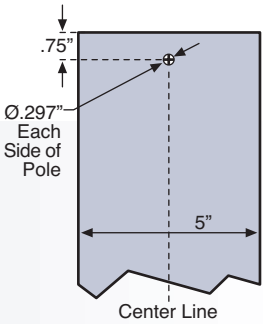




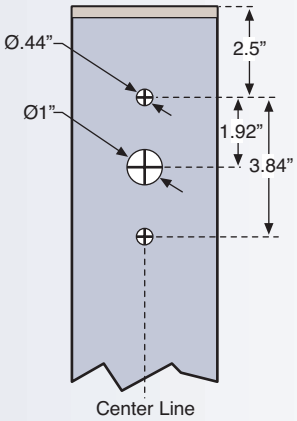




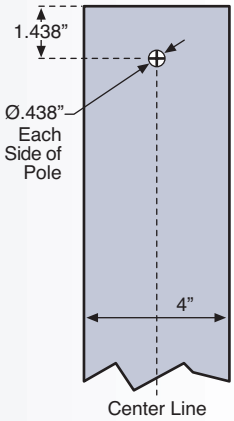
DRILL TEMPLATES



• Post Top Mount to 5” Square Poles



• Adjustable Arm to Square Pole
• Direct Mount to Square Pole
• Arm Mount to Square or Round Pole



• Post Top Mount to 4” Square Poles

Distribution Guide & Ballast Data[1]

See current product Specification Sheet for updated Distribution Guide and Ballast Data

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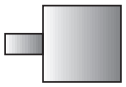
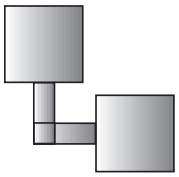
Spectra III • Effective Projected Area



1 @ 90°

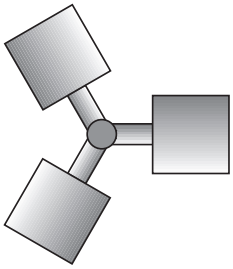


2 @ 90°

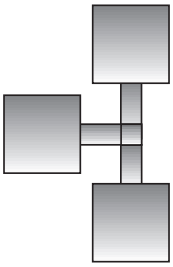
2 @ 180°

Square/Round Surface Mount (SS/SR)				
NO. OF FIXTURES	**1**	**2**	**3**	**4**
10" Deep Housing				
Flat Lens	1.9	3.8	4.8	5.0
Sag Lens	2.1	4.2	5.6	5.9
12" Deep Housing				
Flat Lens	2.2	4.3	5.6	5.9
Sag Lens	2.3	4.7	6.1	6.4

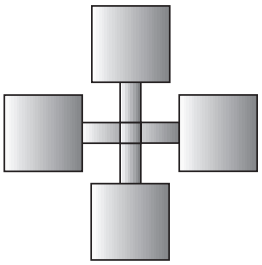
Post Top Mount (PT)	
10" Deep Housing	
Flat Lens	2.2
Sag Lens	2.4
12" Deep Housing	
Flat Lens	2.5
Sag Lens	2.7



3 @ 120°



3 @ 90°



4 @ 90°

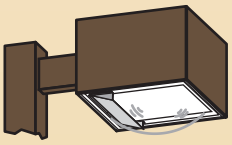
Luminaire Efficacy Rating

Source Type	Catalog Number	Reflector Type	LER(1)	Cost of Light(2)
MH	AL3M-1000	3V	72.2	$3.32
		3H	65.9	$3.64
	AL3M-400	3V	56.9	$4.22
		3H	52.1	$4.61
	AL3M-250	3V	51.8	$4.63
		3H	47.4	$5.06
PS	AL3P-1000	3V	81.9	$2.93
	AL3P-450	3V	72.3	$3.32
	AL3P-400	3V	71.5	$3.35
		3H	64.8	$3.70
	AL3P-350	3V	65.7	$3.66
		3H	58.1	$4.13
	AL3P-250	3V	63.8	$3.76
		3H	56.5	$4.25
HPS	AL3S-750	3V	94.2	$2.55
		3H	96.5	$2.49
	AL3S-400	3V	76.5	$3.14
		3H	84.0	$2.86
	AL3S-250	3V	68.8	$3.49
		3H	75.6	$3.18

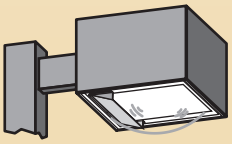
(1) Calculated in accordance with NEMA Standard LE-5B.
(2) Yearly cost of 1000 lumens, 3000 hours at $0.08.

FINISH

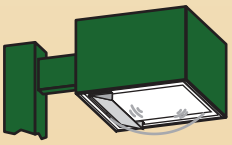
Standard finish is a dark bronze Ultra-Clad™ polyester powder coating at 2.5 mil nominal thickness electrostatically applied and oven cured. Other colors available include gray, textured green, textured black, satin aluminum and white. Special Tiger Drylac® Powder Coat (RAL) custom colors may also be specified.



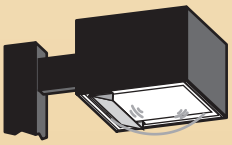
DB
Dark Bronze



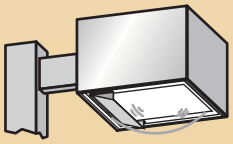
GR
Gray



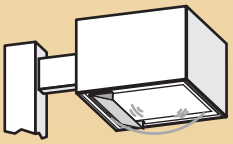
GN
Textured Green



TBK
Textured Black



SA
Satin Aluminum



WHT
White

RAL(*)
Specify custom color from RAL chart.

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Performance Lighting Solutions from Wide-Lite

General Floodlighting

Industrial Applications: Committed to maintaining a Standard of Excellence set a half a century ago.

- Marine grade die-cast aluminum housings, corrosion-resistant coating options
- IP65 rated Dust-Tite® optics, wide choice of distribution patterns
- Cutoff and Semi-Cutoff designs and options, from General Purpose to MF-HAZ
- Auxiliary Lens Shields and Wireguards, vibration-isolating Shock Mounting Brackets
- LyteMatic® Auxiliary Quartz options, Multi-level Dimming and Controls options

Event Lighting: Consistently chosen by specifiers of NCAA, NBA, NHL and Olympic venues.

- Total Blackout with safety interlock switch for dramatic theatrical effects
- Unparalleled application support from the design process through installation
- Bi-Level® switching with zero crossover circuitry to avoid lamp strobing or drop out

EFFEX Precision Floodlights: High Performance Optics and a full range of beam patterns.

- Application, Distribution and Mounting flexibility with "Super Sheet" reflectivity
- Fixed Cutoff Top shield, Barn Door Shields and Field-adjustable Internal Louver options
- Polycarbonate Lens, Colored Lens or Wireguard accessories are available

Architectural Outdoor Lighting

Area and Pedestrian Lighting: Solving light trespass issues with optimum performance.

- EFFEX Area and Wall Luminaires offer design compatibility with EFFEX Floodlights
- Supra-Lyte family of pole-mount area lights offer large and mini, square and round profiles
- Spectra III Area Luminaire, Spectra Ten, Excel-Lyte 1000 and 400

Parking Garage Lighting: Controlled Uplight, Low Glare, Quartz Restrike and Controls options.

- Round and Square Spectra-Lyte offer complete parking garage performance packages

Compact Fluorescent

Retail / Commercial Lighting: ConcelAire Classic and Contemporary.

- CF LyteCluster modular optics, Refractive lens and housing color options
- Uplight option available for Contemporary Series

Industrial Indoor Applications: Cost Effective Lumen Maintenance and Crisp White Light.

- Performer CF Series includes Acrylic High Bay, Comfort Bay and Spun Aluminum High Bay
- Compact Fluorescent or QL Induction Lighting for Parking Garages

Industrial Indoor Lighting

ILX Series: Modular Dust-Tite® optics and innovative ballast design perform in extreme conditions.

- Xtreme Precision High Bay's superior efficiency allows true fixture count reduction
- Xtreme Hydroformed High Bay features Primary Path reflectors and Teflon® lens options
- Xtreme Soft Bay features a unique hose down option and glare-free illumination
- Xtreme Vertic'Aisle is designed to provide even lighting for all shelves, top to bottom
- Xtreme Low Bay features a high pressure hose down option in a low profile design
- Xtreme Comfort Bay is designed for the ultimate in high efficiency and brightness control

Warehouse Lyter / Freezerlyte: Field adjustable lamp socket in pendant or flush mount housings

LowBay III: UL 1598 Wet Location listing in two profiles and three mounting configurations

Performer Series: Open or enclosed Industrial Lighting solutions with Bi-Level® option

Stepped High Bay: IP22 Open Optics with Field Adjustable socket and Bi-Level® option

Spectra V Series: Surface mounted or recessed with or without outer enclosure, Dual Lamp option

HID Modular Dimming and Controls

Bi-Level®, Tri-Level, Full Range Dimming: Modular Automated Efficiency for Industrial and Commercial Facilities, Convention Centers, Churches, Arenas and other large scale public spaces.

- Zero Crossover Point "Smart Relay", Bi-Level® Retro-Fit Kits, Fiber Optic Bi-Level® controls
- Single or Multiple zones, Local or Mastered Controls, Photocells, Occupancy Detectors

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

Wide-Lite®
a GENLYTE THOMAS company
www.wide-lite.com

Wide-Lite
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San Marcos,Texas 78667-0606
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WIDE-LITE UL REGISTERED FIRM ISO 9001-A5211

The facility covered by this Mark has been evaluated to international quality assurance standards by Underwriters Laboratories, Inc.

Specifications and dimensions subject to change without notice.

BULLETIN NO. 0748-1103 **revised 8-16-06**

AL3 Series

Spectra III Area Luminaire - 150-1000 watt HID

Type:

Job:

Catalog Number:

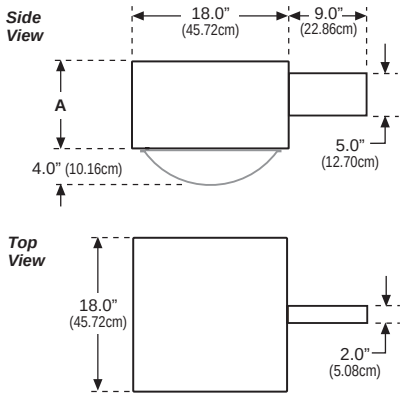
	-		-		-	BL-PCB	-	
SERIES	DISTRIBUTION	VOLTAGE	MOUNTING	OPTIONS (FACTORY INSTALLED)	FINISH	ACCESSORIES (FIELD INSTALLED)
	See Page 2			See Page 4		See Page 5

Approvals:

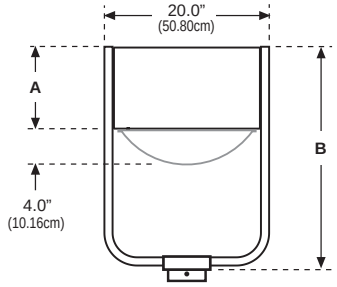
Date:

Overall Dimensions *For Reference Only*

Arm Mount *SS Surface Arm Mount to Square Pole*



Post Top Yoke Mount *PT(XY)*



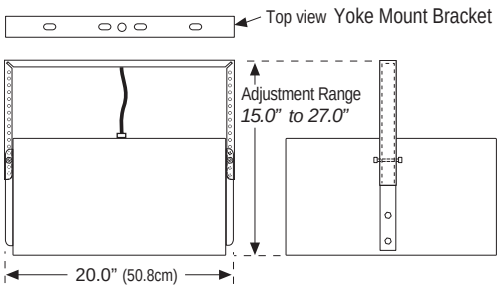
400 Watt max, non-Bi-Level unit

A = 10.00" (25.40cm)
B = 27.25" (69.22cm)

450-1000 Watt or 150-400 Watt Bi-Level unit

A = 12.00" (30.48cm)
B = 29.25" (74.30cm)

Trunnion Yoke Mount *Y*



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 Pulse Start Metal Halide and below only) combine standard flat glass lens with desirable vertical lamp orientation to achieve Full Cutoff. The resulting luminaire is Dark Sky Ordinance compliant (Flat Glass) with the advantage of precision uniformity (Vertical Lamp), delivering superior performance over conventional horizontally lamped optics.

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 determined by wattage and optics specified.)

Socket
A porcelain, 4KV (5KV for 1000W PS) 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. Ballast has 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
Standard finish shall be 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
UL/cUL Listed luminaire, UL 1598, suitable for Wet Locations. The quality systems of this facility have been registered by UL to the ISO 9001 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. Wide-Lite's current Warranty may be found at www.wide-lite.com (keyword: warranty) as well as Wide-Lite's current Standard Terms and Conditions of Sale (keyword: terms).

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

Hg 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.***

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

Arm Mount

	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

10" deep flat glass	10" deep sag glass	12" deep flat glass	12" deep sag glass
2.2	2.4	2.5	2.7

Series (1)

Metal Halide

- ❒ **AL3M-1000** (2)

Pulse Start

- ❒ **AL3P-150**
- ❒ **AL3P-175** (3)
- ❒ **AL3P-250**
- ❒ **AL3P-350**
- ❒ **AL3P-400**
- ❒ **AL3P-450** (2, 3)
- ❒ **AL3P-750** (2)
- ❒ **AL3P-875** (2)
- ❒ **AL3P-1000** (2)

High Pressure Sodium

- ❒ **AL3S-150**
- ❒ **AL3S-250**
- ❒ **AL3S-400**
- ❒ **AL3S-750**

Distribution

Vertical Lamp

Full Cutoff, Flat Glass (4)

- ❒ **2F** = Type II
- ❒ **3F** = Type III
- ❒ **4F** = Type IV
- ❒ **5F** = Type V

Cutoff / Semi-Cutoff Sag Glass (5)

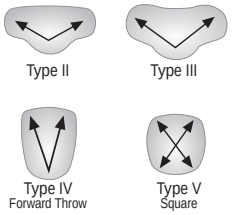
- ❒ **2V** = Type II
- ❒ **3V** = Type III
- ❒ **4V** = Type IV
- ❒ **5V** = Type V

Horizontal Lamp

Full Cutoff, Flat Glass

- ❒ **2H** = Type II
- ❒ **3H** = Type III
- ❒ **4H** = Type IV
- ❒ **5H** = Type V

Distribution Patterns



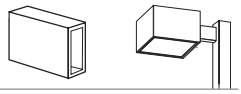
Note:
AL3 Type IV optics include an internal house side shield. Consult factory to specify AL3 Type IV optics without an internal house side shield. Consult factory for photometry.

Voltage

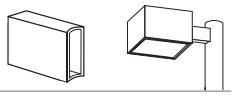
- ❒ **120**
- ❒ **208**
- ❒ **240**
- ❒ **277**
- ❒ **480**
- ❒ **QV** (6)

Mounting (7)

❒ **SS** = Surface Arm Mount to Square Pole *(Standard)*



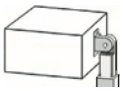
❒ **SR(X)** (8) = Surface Arm Mount to Round Pole
(Mounting edge of arm is contoured to match pole radius)



❒ **DM** = Direct Mount to Square Pole
(Luminaire housing mounts flush to pole without the use of mounting arm(s). For use with the following mounting configurations only: 1@90 or 2@180.

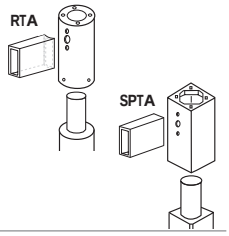
❒ **SA2** (9) = Adjustable Arm Mount to Square Pole *(Includes transition plate)*

❒ **MA2** = Adjustable Mastfitter Mount to 2-3/8" OD tenon
(Includes transition plate)



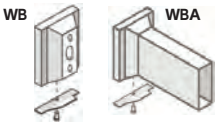
❒ **RTA-(X)-(Y)** (10, 11) = Round Pole Tenon Adapter
(Slipfitter for Round Pole with 2.375" O.D. x 4" vertical tenon, 9" arm included)

❒ **SPTA-(X)-2.375** (10) = Square Pole Tenon Adapter
(Slipfitter for Round Pole with 2.375" O.D. x 4" vertical tenon, 9" arm included)

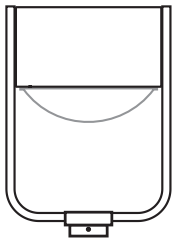


❒ **WB** = Wall Mount Bracket

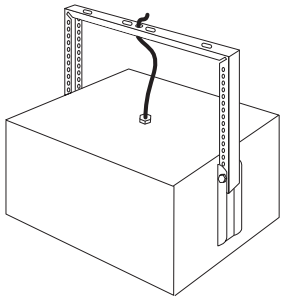
❒ **WBA** = Wall Mount Bracket with 9" arm



❒ **PT(XY)** (12) = Post Top Yoke Mount

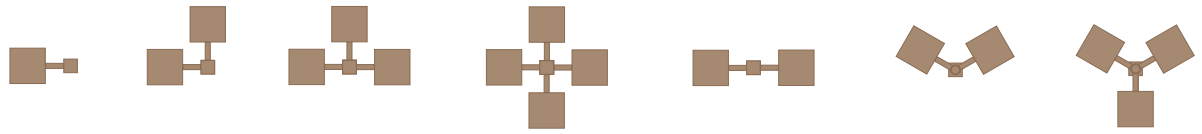


❒ **Y** = Trunnion Yoke Mount



1) Depth of housing dependent on wattage.
2) 2H reflector not available.
3) Vertical burn lamp only, at time of publication.
4) 400 watt and below, Pulse Start Metal Halide only.
5) Cutoff distribution at 150-400 watts. Semi-Cutoff at 450-1000 watts.
6) Allows field selection of 120/208/240/277voltage. (No 480V). Certain options may require voltage selection as well.
7) Refer to page 5 for Drill Templates.
8) X = Specify pole size: (3.5 / 4)" OD; (4 / 5)" OD.
9) 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.

Mounting Configurations



1 @ 90° | 2 @ 90° | 3 @ 90° | 4 @ 90° | 2 @ 180° | 2 @ 120° | 3 @ 120°

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.

Distribution Guide & Ballast Data (1)

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
MH	**AL3M-1000**	BT / ED37	12"	2V, 3V, 4V, 5V 3H, 4H, 5H	Semi Cutoff ***Full Cutoff***	alm10(*).ies	CWA	M47 / H36	9.2 / 5.6 / 4.7 / 4.1 / 2.4	1080
PS	**AL3P-1000**	BT / ED37	12"	2V, 3V, 4V, 5V 3H, 4H, 5H	Semi Cutoff ***Full Cutoff***	alp10(*).ies	CWA	M141	9.0 / 5.2 / 4.5 / 3.9 / 2.4	1080
	AL3P-875	BT / ED37	12"	2V, 3V, 4V, 5V 3H, 4H, 5H	Semi Cutoff ***Full Cutoff***	alp87(*).ies	CWA	M166	7.8 / 4.3 / 3.9 / 3.4 / 2.0	945
	AL3P-750	BT / ED37	12"	2V, 3V, 4V, 5V 3H, 4H, 5H	Semi Cutoff ***Full Cutoff***	alp75(*).ies	CWA	M149	7.0 / 4.0 / 3.5 / 3.0 / 1.7	820
	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
	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
	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
	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
	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
	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
HPS	**AL3S-750**	E18	12"	2V, 3V, 4V, 5V 2H, 3H, 4H, 5H	Cutoff ***Full Cutoff***	als75(*).ies	CWA	S111	5.5 / 3.3 / 2.9 / 2.5 / 1.4	670
	AL3S-400	E18	10" (12" w/ Bi-Level)	2V, 3V, 4V, 5V 2H, 3H, 4H, 5H	Cutoff ***Full Cutoff***	als40(*).ies	CWA	S51	3.9 / 2.3 / 2.1 / 1.7 / 1.0	465
	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
	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

(1) The Spectra AL3 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 Reflector Type:
2V, 3V, 4V, 5V (Vertical Lamp / Sag Glass / Cutoff 400W and below, Semi-Cutoff 450-1000W)
2F, 3F, 4F, 5F (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 AL3 reflectors are equipped with POMB sockets and can accommodate Standard or High Output Lamps.

(6) Internal house side shield is standard on Type 4 optics.
Consult factory to specify Type 4 optics without internal house side shield.

Options (Factory Installed)

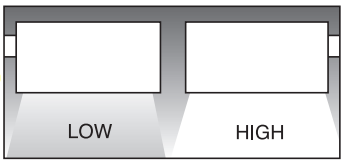
☑ **BL** = Bi-Level ®

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.



☐ **CSR** = Hot Quartz Restrike

☐ **LQ** = Hot/Cold Quartz Restrike

☐ **LQ1** = Separately Wired (120V) Quartz Restrike

Note: Standard 150 watt (120V) double contact bayonet base socket.

Combined Quartz wattage may not exceed HID lamp wattage.

LQ1 requires an Interlock (by others) to ensure HID and Quartz source are not operated concurrently.

CSR - Quartz restrike using a current sensing relay; extinguishes auxiliary lamp when main arc strikes.

LQ - Provides LiteMatic operation for fixtures with 120V or multi-tap ballasts.

LQ1 - Separately wired, externally controlled emergency lighting from a separate power source.

LiteMatic Operation

Normal Start: Main and Quartz lamps both energized.

Main Lamp Reaches Approximately 40% of Rated Output: Quartz lamp automatically extinguishes (combined lamp currents never exceed that of main lamp at 100% output).

When Arc Extinguished: Auxiliary quartz lamp automatically energized when power is restored.

Main Lamp Reaches 40% of Rated Output: Quartz lamp automatically extinguishes

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☐ **F1** = Single Fuse (120V/277V)

☐ **F2** = Double Fuse (208V/240V/480V)

Note: If ordering QV ballast, voltage must be specified.

Standard unit consists of 1 or 2 KTK 30 amp fuses mounted internally on the ballast plate.

Not available for 450-1000 watt. See inline fusing accessories F1-Kit and F2-Kit.

☐ **PCB** = Photo Cell Button, specify voltage

Not available in 480V.

Note: If ordering QV ballast, voltage must be specified.

Factory installed photocell button on side wall of luminaire.

Not available for 450-1000 watt.

☐ **TLR** = Twist Lock Photocell Receptacle

☐ **TLR-PC** = Twist Lock Photcell Receptacle with Photocontrol, specify voltage

Note: If ordering QV ballast, voltage must be specified.

Factory installed photocell receptacle through top of luminaire.

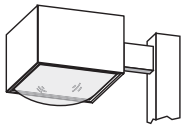
Not available for 450-1000 watt.

☐ **ASL** = Acrylic Sag Lens

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.

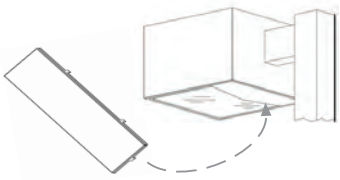


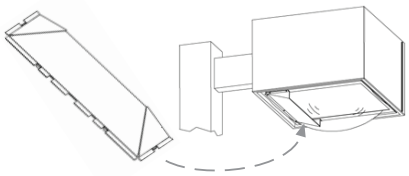
Factory installed house side shields:

☐ **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 HSS.





☐ **SLS** = Stabilux Socket

For horizontally lamped optics only.

Adjustable lamp support, insulated with woven ceramic fabric, for applications requiring added protection to reduce lamp breakage due to mechanical shock and vibration.

Finish

- ❒ **DB** = Dark Bronze *(smooth)*
- ❒ **TBK** = Textured Black
- ❒ **BLK** = Black *(smooth)*
- ❒ **TGN** = Textured Green
- ❒ **GR** = Gray *(smooth)*
- ❒ **SA** = Satin Aluminum *(smooth)*
- ❒ **WHT** = White *(smooth)*

❒ **RAL(*)** = Special Tiger DryLac® Powder coat finish

(*) Specify RAL color number from RAL color chart.

(Consult factory for assistance in color selection. Custom color matching is also available. Provide Paint chip to allow accurate color matching.)

- ❒ **DS01** = White decorative striping
- ❒ **DS02** = Black decorative striping
- ❒ **DS03** = Gold metallic decorative striping
- ❒ **DS04** = Red decorative striping
- ❒ **DS05** = Silver metallic decorative striping
- ❒ **DS08** = Blue decorative striping
- ❒ **DS69** = Dark Green decorative striping

Accessories (Field Installed - Shipped Separately)

❒ **F1-Kit** = Inline Fusing (120V/277V)
❒ **F2-Kit** = Inline Fusing (208V/240V/480V)

Consists of 1 or 2 fuse holders and 1 or 2 KTK 30 amp fuses. Field installed.

Field installed house side shield 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.

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

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

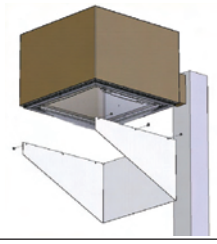
❒ **SK-AL3-(F)** = External Glare Shield

(F) = specify finish.

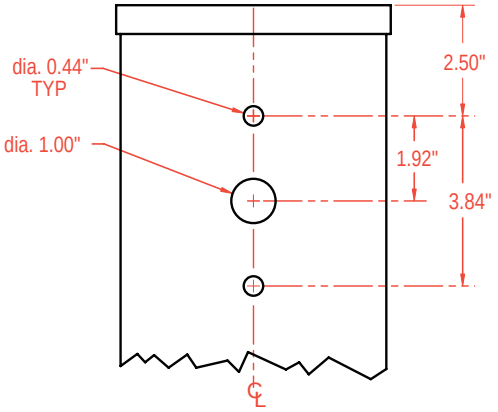
Recommended finish is Textured Black.

Field installed accessory provides advanced directional control of spill light from sag or flat lens.

Easy installation at lip of lens frame provides a seamless appearance.



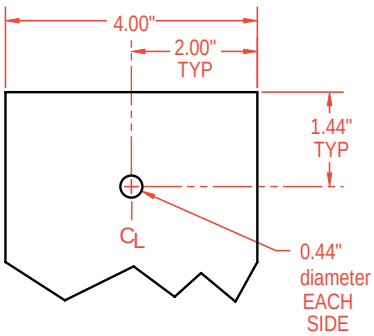
Drill Template No. 8 (NTS)



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

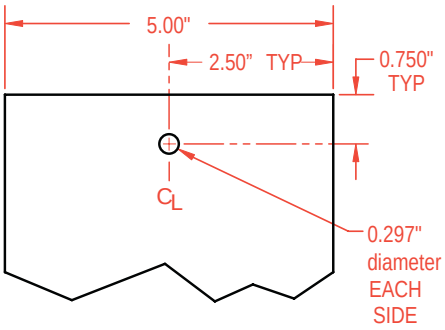
4"-6" Square Pole or 3.5"-5" Round Pole

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

Type:
Job:

Notes

Wide-Lite is a Philips group brand

P.O. Box 606
San Marcos, TX 78667-0606
PH: 512-392-5821 / FAX: 512-753-1122

Wide-Lite reserves the right to change specifications and dimensions without notice. Lamp and electrical specifications / availability subject to change by manufacturer without notice.

www.wide-lite.com
CATALOG KEYWORD: AL3

PT#: WLSP0126A1208