

OUTDOOR LIGHTING ILLUMINATION STUDY

In general, existing water treatment plant property site lighting will be removed and replaced with new due to the extent of modifications occurring at the site. There is no existing street lighting at this time.

Overall Site Lighting Plan:

See Figure 5.05 to Figure 5.12 for overall site lighting plan and calculated foot-candle levels. Note that small enhancements may be required during final design.

The site lighting was modeled as follows:

- pole lights for roadway / at grade areas –
 - 14' metal halide (100W lamp) on secure side of plant fence
 - 14' high pressure sodium (100W lamp) on public side of plant fence
 - modeled with The Archetype*
- pole lights for main entrance parking-
 - 20' high pressure sodium (150W lamp) on public side of plant fence
 - modeled with The Archetype*
- pole lights on above ground filters/ballasted floc/wash water tanks –
 - 10' compact fluorescent lights (2-32W lamps)
 - modeled with Litonia type Aeris AS1*
- wall mounted building lights by doors –
 - compact fluorescent lights (2-26W lamps) at 8' on secure side of plant fence
 - building mounted lighting on public side of plant fence will be coordinated during final design
 - modeled with Litonia type MRW*

*Make and model is subject to change.

Applicable Codes

Wattages for exterior lighting will be selected in order to comply with Oregon Energy Efficiency Specialty Code. However, in areas with security/safety/crime concerns dictated by the City of West Linn Community Development Code lighting levels may differ. We assume this to be an “approved” exception per Section 505.6 of the Oregon Energy Efficiency Specialty Code.

Due to the sensitive nature and security required for a water treatment plant, lighting control will in general follow the below the outline. However, in areas of security/safety/crime concern lighting will either be left on (based fully on photocell and/or timer operation) or equipped with an operator override to turn it on/off.

Street Lighting Illumination

There is no existing street lighting along the water treatment plant property frontages on Mapleton Drive or Kethorpe Way. The neighboring public have expressed that they would like to keep it that way. The majority of the remainder of Mapleton Drive and Kethorpe Way are also unlit. Forgoing the addition of street lighting may also benefit in seeing less unwanted attention directed towards the water treatment plant during night hours.

Exterior on New Buildings – Accessible to the Public

Areas readily accessible to the public must meet the City of West Linn Community Development Code. We will be using fully shielded lighting switched by photocell and/or timer. We will utilize high pressure sodium fixtures. Exterior building lighting will be limited to above or beside doors only unless the Owner directs otherwise. Where exterior doors are considered emergency egress paths additional emergency lighting with battery backup will be provided. This specific piece of exterior lighting will be developed further during final design stages.

Exterior on New Buildings – Not Accessible to the Public (secure side of plant fence)

We will be using fully shielded lighting switched by motion detector above the exterior doors to save on energy usage while lighting is not actively needed. Since motion detectors will be utilized (as opposed to photocells) we need to use instant on lighting. This leaves us to use fluorescent lights or LED's with cold weather rated ballasts. Exterior building lighting will be limited to above or beside doors only unless the Owner directs otherwise. Where exterior doors are considered emergency egress paths the lighting will need to have battery backup.

Outdoor Site Lighting – Accessible to the Public

Specific areas readily accessible to the public must meet the City of West Linn Community Development Code. We will be using fully shielded lighting switched by photocell and/or timer. We will utilize high pressure sodium fixtures. Exterior site lighting will be provided for; driveway and parking areas readily accessible to the public from Kenthorpe Way, at the storm water area off Kenthorpe Way at the northwest portion of the site, and along the pedestrian path connecting Mapleton to Kenthorpe Way.

Parking and driveway areas will be designed for 0.5-1.0 foot-candles average measured at 2.5' above the ground.

Outdoor Site Lighting – Not Accessible to the Public (secure side of plant fence)

Roadway lighting is required for navigating the site at night time. Compact fluorescent lights are not good candidates for this type of lighting. Outdoor site lighting will be metal halide HID type. It will be fully shielded style to minimize light pollution and glare. This lighting will likely be placed on a timer that will be set to turn off when the plant is vacated in the evening except where lighting would be required for security purposes or where the electric utility may require (to be determined).

Roadway areas will be designed for 0.5-1.0 foot-candles average measured at 2.5' above the ground.

Outdoor Process Area – Not Accessible to the Public (secure side of plant fence)

Much of this lighting will be on elevated tanks that might be visible to neighbors. We will have fully shielded fluorescent fixtures for "instant-on" light switched by building mounted light switches. Lighting is designed for low-level general area lighting when needed and should not be considered task lighting for maintenance. We will decide for pole mounted vs. stanchion mounted during the final design phase. These are switched only. If part of the outdoor process area is determined to be part of the path of egress we will add the required emergency lighting.

Outdoor above ground areas (filters, ballasted floc...) will be designed for 1.0 foot-candles average measured at 2.5' above the walking deck.

We will add some additional switched “instant-on” task lighting (probably floodlights) at certain open-tank outdoor process areas for service requirements. This is not modeled as it is for emergency maintenance/service requirements only.

Type:
Job:
Catalog number:

Approvals:

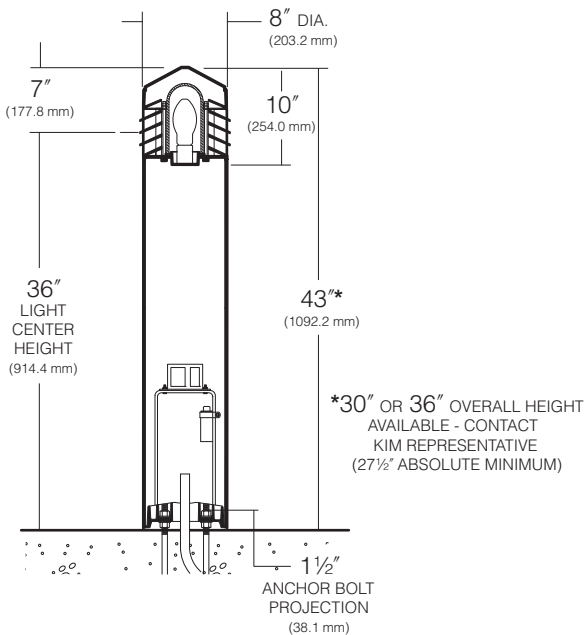
VSB1	/	/	/
Fixture	Electrical Module	Top Cap and Shaft Finish	Option
See page 2			

Date:
Page: 1 of 3

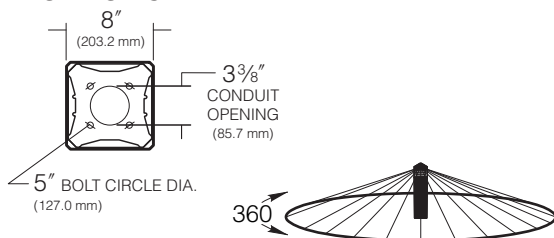
Specifications

VSB Models
 70 to 100 watt
 Medium Base Lamps
 42 watt Compact Fluorescent

VSB1 - Single Function Luminaire (Aluminum Shaft)
 Maximum weight: 35 lb



**BASE PLAN
 VSB
 ALUMINUM SHAFT**



Top Cap: One-piece, die-cast low copper (<0.6% Cu) aluminum $\frac{3}{16}$ " minimum thickness, secured to louvers by concealed stainless steel allen screws in keyhole slots. For relamping access, allen screws shall not require complete removal.

Louvers: One-piece, die-cast low copper (<0.6% Cu) aluminum with vertical support ribs at 90° intervals. Horizontal louver blades shall have a $1\frac{3}{4}$ " depth, and be angled 25° from the horizontal. Louvers shall provide light source cutoff above horizontal. Louver castings shall be secured to shaft by four internal tie rods.

Lamp Enclosure: One-piece tempered molded glass with internal flutes and full silicone gasketing at bottom edge.

Socket: Porcelain medium base socket rated 4KV for HID Plastic socket for Fluorescent.

Fixture Head: Allows flow-through ventilation around and above the lamp enclosure.

Shaft: One-piece extruded aluminum, .156" minimum wall thickness with a heavy cast aluminum anchor base concealed within the shaft. Hex socket stainless steel screws shall lock shaft onto the cast anchor base.

Ballast: Factory mounted to rigid harness attached to the anchor base. Wiring shall be supplied from the socket for field connection to the prewired ballast components. **HID:** High power factor with starting temperatures of -20°F. for PMH and -40°F. for HPS lamp modes. **26W, 32W, 42W Fluorescent:** High power factor with starting temperature of 0°F.

Anchor Bolts: Four $\frac{3}{8}$ " x 10" + 2" zinc plated L-hooks, each with two nuts, washers and a rigid pressed board template.

Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, or White. Custom colors are available.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Listings and Ratings

UL cUL 1598 ¹	CE	25C Ambient
IP46 Rated	FS = Fully Shielded ²	

¹Suitable for wet locations.

²Dark Sky Legislation Compliant

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE

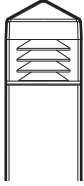


U.S. Patent D410,553

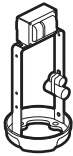


Type:

Job:

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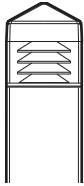
Standard Features

Fixture	Cat. No. VSB1 Single Function, Aluminum Shaft, Gabled Top																																																		
Electrical Module PMH = Pulse Start Metal Halide HPS = High Pressure Sodium PL = Compact Fluorescent <table border="1" data-bbox="191 863 391 957"> <tr> <td>Lamp Watts</td> <td>Lamp Type</td> <td>Line Volts</td> </tr> <tr> <td>70</td> <td>PMH</td> <td>120</td> </tr> </table>  <p>NOTE: For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.</p>	Lamp Watts	Lamp Type	Line Volts	70	PMH	120	Cat. Nos. for Electrical Modules available: <table border="1" data-bbox="500 674 1458 856"> <tr> <td><input type="checkbox"/> 70PMH120</td> <td><input type="checkbox"/> 100PMH120</td> <td><input type="checkbox"/> 70HPS120</td> <td><input type="checkbox"/> 100HPS120</td> </tr> <tr> <td><input type="checkbox"/> 70PMH208</td> <td><input type="checkbox"/> 100PMH208</td> <td><input type="checkbox"/> 70HPS208</td> <td><input type="checkbox"/> 100HPS208</td> </tr> <tr> <td><input type="checkbox"/> 70PMH240</td> <td><input type="checkbox"/> 100PMH240</td> <td><input type="checkbox"/> 70HPS240</td> <td><input type="checkbox"/> 100HPS240</td> </tr> <tr> <td><input type="checkbox"/> 70PMH277</td> <td><input type="checkbox"/> 100PMH277</td> <td><input type="checkbox"/> 70HPS277</td> <td><input type="checkbox"/> 100HPS277</td> </tr> <tr> <td><input type="checkbox"/> 70PMH347</td> <td><input type="checkbox"/> 100PMH347</td> <td><input type="checkbox"/> 70HPS347</td> <td><input type="checkbox"/> 100HPS347</td> </tr> </table> <table border="1" data-bbox="500 863 1458 940"> <tr> <td>Lamp</td> <td>E-17, Coated</td> <td>E-17, Coated</td> <td>ED-17, Coated</td> <td>ED-17, Coated</td> </tr> <tr> <td>Socket</td> <td>Medium Base</td> <td>Medium Base</td> <td>Medium Base</td> <td>Medium Base</td> </tr> </table> <table border="1" data-bbox="500 947 1458 1010"> <tr> <td>ANSI Ballast Type</td> <td>M-98</td> <td>M-90</td> <td>S-62</td> <td>S-54</td> </tr> </table> <table border="1" data-bbox="500 1045 846 1163"> <tr> <td><input type="checkbox"/> 42PL¹</td> </tr> <tr> <td>Lamp</td> <td>Compact Fluor.</td> </tr> <tr> <td>Socket</td> <td>GX24q-4</td> </tr> </table> <p>NOTE: Coated lamps are recommended.</p>					<input type="checkbox"/> 70PMH120	<input type="checkbox"/> 100PMH120	<input type="checkbox"/> 70HPS120	<input type="checkbox"/> 100HPS120	<input type="checkbox"/> 70PMH208	<input type="checkbox"/> 100PMH208	<input type="checkbox"/> 70HPS208	<input type="checkbox"/> 100HPS208	<input type="checkbox"/> 70PMH240	<input type="checkbox"/> 100PMH240	<input type="checkbox"/> 70HPS240	<input type="checkbox"/> 100HPS240	<input type="checkbox"/> 70PMH277	<input type="checkbox"/> 100PMH277	<input type="checkbox"/> 70HPS277	<input type="checkbox"/> 100HPS277	<input type="checkbox"/> 70PMH347	<input type="checkbox"/> 100PMH347	<input type="checkbox"/> 70HPS347	<input type="checkbox"/> 100HPS347	Lamp	E-17, Coated	E-17, Coated	ED-17, Coated	ED-17, Coated	Socket	Medium Base	Medium Base	Medium Base	Medium Base	ANSI Ballast Type	M-98	M-90	S-62	S-54	<input type="checkbox"/> 42PL ¹	Lamp	Compact Fluor.	Socket	GX24q-4
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Finish Super TGIC powder coat paint over a titanated zirconium conversion coating on fixture and shaft.	Color: Black Dark Bronze Light Gray Stealth Gray™ Platinum Silver White Custom Color ² Cat. No.: <input type="checkbox"/> BL <input type="checkbox"/> DB <input type="checkbox"/> LG <input type="checkbox"/> SG <input type="checkbox"/> PS <input type="checkbox"/> WH <input type="checkbox"/> CC <p>NOTE: Black and Dark Bronze colors will produce slightly less louver brightness than Light Gray or White.</p> ² Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____																																																		
Optional Houseside Shield Cat. No. <input type="checkbox"/> HS <input type="checkbox"/> No Option	180° trimmable houseside shield that inserts inside lamp enclosure. .032" thick natural aluminum, trimmable in field. 																																																		
Emergency Battery Back-up Cat. No. <input type="checkbox"/> EM <input type="checkbox"/> No Option	Internal battery pack provides 90 minutes of supplemental light at 23% of initial lamp lumens for 26, 32, or 42 watt compact fluorescent lamps..  <p style="text-align: right;">battery back-up</p>																																																		

Type:

Job:

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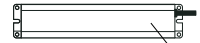
Standard Features

Cold-Pack Emergency Battery Pack

- Cat. No. **EM-CP**
 No Option

The EM-CP option is a temperature controlled ballast designed to maintain operation without interruption within a range of hi/low ambient temperatures, -20°C to +55°C.

Internal Cold-Pack emergency battery pack provides up to 90 minutes of supplemental light. See following table for max. lumens output by lamps.



cold-pack
battery back-up

Lamp (4-Pin)	1 lamp lumens
42W	750
32W	575
26W	450

MRW

Omero™



Intended Use

For building- and wall-mounted applications.

Construction

Rugged, die-cast, single-piece aluminum housing. Die-cast doorframe has a 1/8" thick tempered glass lens. Doorframe is fully gasketed with one-piece solid silicone.

Standard finish is textured dark bronze (DDBT) corrosion-resistant polyester powder finish. Additional architectural colors are available; see www.lithonia.com/archcolors. Striping is also available.

Optics

Segmented reflectors provide superior uniformity and control. Reflectors are interchangeable. Three full cutoff distributions available: FT (forward throw), MD (medium throw) and WT (wide throw).

Electrical

Ballast: All ballasts are 100% factory tested. High reactance, high power factor for 150W and below. Constant wattage autotransformer 175W. MH: 150W and below are standard with pulse-start ignitor technology. CSA, NOM or INTL required for probe

start shipments outside the U.S. for 175M. Not available with 175M SCWA. Compact fluorescent uses an electronic high-frequency ballast.

Socket: Porcelain, medium-base socket for MRW with copper alloy, nickel-plated screw shell and center contact. Fluorescent is four-pin positive latching thermoplastic. UL Listed. Compact fluorescent uses an electronic high-frequency ballast. LPI is standard 35K for CFL.

Installation

Universal mounting mechanism with integral mounting support allows fixture to

hinge down. Bubble level provides correct alignment with every installation.

Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified (see Options). UL listed suitable for wet locations (damp location listed in lens up orientation). WLU option offers wet location listing in up orientation (see Options). IP65 rated. 25°C ambient. U.S. patent No. D565.232.



ORDERING INFORMATION

For shortest lead times, configure products using **bolded options**.

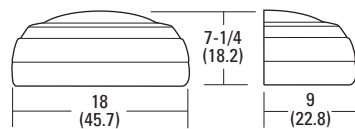
Example: MRW 100M FT TB LPI

Series	Lamp type	Distribution	Voltage	Ballast	Mounting	Options			
MRW	High pressure sodium ¹	Metal halide	Metal halide ceramic ²	Compact fluorescent ¹	FT Forward Throw	120	(blank) Magnetic ballast	Ships installed	Ships installed
	35S ²	50M ^{1,3}	50MHC ^{1,3}	26DTT	MD Medium throw	208 ⁶	CWI Constant wattage isolated ⁹	(blank) Mounting plate (std.)	SF Single fuse, 120V, 277V, 347V
	50S	70M^{1,3}	70MHC ^{1,3}	2/26DTT	WT Wide throw	240 ⁶	SCWA Super CWA ballast ¹⁰	Ships separately ^{11, 12}	DF Double fuse, 208V, 240V, 480V
	70S	100M¹	100MHC ¹	26TRT		277		BBW Surface-mounted back box ¹³	ELDW Bodine emergency battery pack ^{15, 16, 17}
	100S	150M	150MHC	2/26TRT		347		UTS Uptilt 5 degrees bracket ¹⁴	ELDWR Fixture wired ready for Bodine B30 battery pack ^{15, 16, 18}
	150S	175M⁴		32TRT		480⁶			ELDWRPS Fixture wired ready for PS1400 or PSDL battery pack ^{15, 16, 19}
			2/32TRT		TB⁷			EC Emergency circuit ^{16, 20}	QRS Quartz restrike system ^{16, 20}
			2/42TRT		MVOLT⁸				
						23050HZ⁹			
Options (continued)						Finish		Lamped	
ELED	LED emergency single ^{16, 21, 22}	IBS	Internal backlight shield ²⁵	(blank)	Dark bronze, textured (std.)	LPI	Lamp included ²⁷		
2ELED	LED emergency double ^{16, 21, 22}	WLU	Wet location door for up orientation	DSST	Sandstone-textured	L/LP	Less lamp		
DC12	Emergency circuit 12V; 35W lamp included ^{16, 23}	CSA	Meets Canadian standards	DNAT	Natural aluminum-textured				
2DC12	Emergency circuit 12V; two 35W lamps included ^{16, 23}	NOM	Meets Mexican standards (consult factory)	DWHG	White-textured				
DC2012	Emergency circuit 12V; 20W lamp included ^{16, 23}	INTL	International shipment for 175M.	DBLB	Black-textured				
2DC2012	Emergency circuit 12V; two 20W lamps included ^{16, 23}	Ships separately ^{11, 26}		DDB	Dark bronze				
PE	Photoelectric cell - button type ²⁴	VG	Vandal guard	CR	Enhanced corrosion resistance				
DFL	Diffusing lens	WG	Wire guard	CRT	Non-stick protective coating (black)				

ADDITIONAL INFORMATION

For additional product information, visit www.lithonia.com.

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Weight: 35 lbs (15.9 kg)

Notes

- Not available with SCWA.
- 120V, NPF only.
- Not available with 480V.
- Not available with SCWA. Requires CSA, NOM, or INTL.
- Not applicable with L/LP.
- Must specify CWI for use in Canada.
- Optional multi-tap ballast (120, 208, 240, 277V); (120, 277, 347V in Canada; ships as 120V/347V).
- Optional multi-volt electronic ballast (compact fluorescent only) capable of operating any line voltage from 120V-277V.
- Consult factory for available wattages.
- Only available with 150M or 150MHC.
- May be ordered as an accessory.
- Must specify finish.
- Order WSBWW when needed as an accessory.
- Order WSUTS when needed as an accessory.

- Available for compact fluorescent units only. Must specify voltage.
- Only one emergency option available per fixture.
- Not available with 2/32TRT or 2/42TRT.
- Battery pack (not included) to be mounted external to luminaire. Pilot light/test switch mounting plate included. 32°F min. operating temperature.
- Not available with 2/42TRT.
- Maximum allowable wattage lamp included.
- Available in 120V or 277V only.
- Maximum wattage 100M or 70S.
- Not available with fusing.
- Must be ordered with fixture; cannot be field installed. Not available 347V, 480V, or TB.
- Not available with medium throw.
- Prefix with fixture name and size (e.g., MRWVG)
- For medium throw distribution, lamp is coated.

PRODUCT INFORMATION

AS AST

Aeris™



Intended Use
For streets, walkways, parking lots and surrounding areas.

Construction
Housing: Rugged, die-cast, single-piece aluminum housing with nominal 1/8" wall thickness.

Door Assembly: Die-cast doorframe, impact-resistant, tempered glass lens, 3/16" thick, fully sealed with one-piece tubular silicone gasket.

Finish: Standard finish is dark bronze polyester powder finish. Additional architectural colors available; see www.lithonia.com/archcolors.

Optics
Anodized segmented reflectors for superior uniformity and control. Reflectors attach

with tool-less fasteners and are rotatable and interchangeable. Four full cutoff distributions available: Type II (roadway), Type III (asymmetric), Type IV (forward throw), and Type V (symmetric square).

Electrical
Ballasts: Mounted on removable power tray and have positive locking disconnect plugs. All ballasts are 100% factory tested. High reactance, high power factor for 150W and below. Constant wattage autotransformer 175W and above. MH: 150W and below are standard with pulse-start ignitor technology. Super CWA Pulse Start ballasts, 88% efficient and EISA legislation compliant, are required for 151-400W

(must order SCWA option) for U.S. shipments only. CSA, NOM or INTL required for probe start shipments outside the U.S. Compact fluorescent uses an electronic high-frequency ballast.

Socket: Porcelain, medium-base socket for AS1, mogul-base socket for AS2, with copper alloy nickel-plated screw shell and center contact. Ceramic metal halide lamps are recommended for use in applications where superior color rendition, lumen maintenance and longer lamp life are desired. Fluorescent is four-pin positive latching thermoplastic. LPI is standard 35K for CFL.

Installation
Heavy-duty easy-mount block attaches to pole or wall to provide ease of installation as well as ensured alignment and leveling. Additional backing plate and receiver used to mount AST suspend tension rod. AST1 mounts 9.64" lower than specified pole height. AST2 mounts 13.89" lower than specified pole height.

Listings
UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for 25 °C ambient and wet locations. U.S. Patent No. D447,590. Canadian Patent No. 94324. IP65 Rated.



ORDERING INFORMATION For shortest lead times, configure products using **bolded options**.

Example: AS1 150M SR2 TB SPA LPI

Series	Lamp type ¹	Distribution ¹			Voltage	Ballast	Mounting ¹⁴
AS1	High pressure sodium ²	400S	250M	Compact fluorescent	120	(blank) Magnetic ballast	<u>Ships included</u>
AS2	35S ³	Metal halide	320M ⁷	SR2			
AST1	50S ⁴	50M ^{2,5}	400M	2/32TRT ⁹	208¹⁰	CWI	Constant wattage isolated ¹²
AST2	70S	70M ^{2,5}	Metal halide ceramic ⁸	42 TRT	240¹⁰	SCWA	Super CWA ballast
	100S	100M ²	50MH ^{2,5}	2/42TRT ⁹	277		
	150S	150M	70MH ^{2,5}	57TRT	347		
	200S	175M⁶	100MH ²	70TRT	480¹⁰		
	250S	200M ⁷	150MHC	SR5S	TB¹¹		
					23050HZ ¹²		
					MVOLT ¹³		

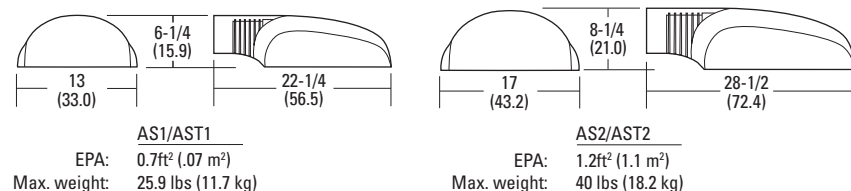
Options	Finish	Lamped
<u>Ships installed</u>	(blank) Dark bronze (std.)	LPI Lamp included
SF Single fuse, 120V, 277V, 347V ¹⁸	DBL Black	L/LP Less lamp
DF Double fuse, 208V, 240V, 480V ¹⁸	DGC Charcoal gray	
GMF Internal slow-blow fusing	DMB Medium bronze	
ELDW Bodine emergency battery backup ¹⁸	DNA Natural aluminum	
EC Emergency circuit ^{18, 19}	DWH White	
QRS Quartz restrike system ^{18, 19}	CR Enhanced corrosion resistance	
	CRT Non-stick protective coating (black)	

ADDITIONAL INFORMATION For additional product information, visit www.lithonia.com.

CONFIGURATIONS		
SERIES	LAMP TYPE	DISTRIBUTION
AS1, AST1	35S, 50S, 50M, 50MHC, 70S, 70M, 70MHC, 100S, 100M, 100MHC, 150S, 150M, 150MHC, 175M, 42TRT, 57TRT, 70TRT	SR2, SR3, SR4SC, SR5S
AS1, AST1	2/32TRT, 2/42TRT	SR3
AS2, AST2	175M, 200S, 200M, 250S, 250M, 320M, 350M, 400S, 400M	SR2, SR3, SR4SC, SR4W, SR5S

DRILLING PATTERNS	
(SEE POLE ORDERING, PAGE 588)	
DM19AS	1 at 90°
DM28AS	2 at 180°
DM29AS	2 at 90°
DM39AS	3 at 90°
DM49AS	4 at 90°
DM32AS	3 at 120° (round poles only)

Drawings are for dimensional detail only and may not represent actual mechanical configuration. Dimensions are shown in inches (centimeters) unless otherwise noted.



Notes

- Specify lamp type and distribution. See Configurations table.
- Not available with SCWA.
- 120V only.
- 120V and 277V only.
- Not available with 480V.
- Not available AS1/AST1 SCWA.
- Must be ordered with SCWA.
- Not applicable with L/LP.
- Available in SR3 only.
- Must specify CWI for use in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Consult factory for available wattages.
- Multi-volt electronic ballast (compact fluorescent only) capable of operating on any line voltage between 120V and 277V.
- Mounting block included standard.
- Mounted in lens up orientation, fixture is damp location rated. AST available in down orientation only.
- May be ordered as accessory. Not available with AST.
- Must specify finish.
- SF, DF, QRS, EC, or ELDW options cannot be ordered together.
- Maximum allowable wattage lamp included.
- Photocell not included.
- SR2, SR3, SR4W only.
- Prefix with fixture name and size (e.g., AS1VG).

The Archetype®

Small 70-150W Luminaire

SAR



FEATURES

- Pulse start metal halide or high pressure sodium technology
- Efficient, effective downward control of light with full upright cutoff
- Easy-access, tool-less latches for lower maintenance

ORDERING INFORMATION (Example)

1SA	SAR1	100PMH120	SG	A-30	—	PRA12-5125SA/SG
MOUNTING		FIXTURE FINISH		FIXTURE OPTIONS		POLE / POLE ARM
EPA		BL Black		A-30 120 Volt photocell		See p. 766-770 for ordering no., pole and arm EPA.
1SA 1 Arm Side Mt. 0.7		DB Dark Bronze		A-30 120 Volt photocell		
2SB 2 Arm Side Mt. 1.4		LG Light Gray		A-31 208 Volt photocell		SLIPFITTER MOUNTING OPTIONS
2SL 2 Arm Side Mt. 1.2		SG Stealth Gray™		A-32 240 Volt photocell		
3ST 3 Arm Side Mt. 1.9		PS Platinum Silver		A-33 277 Volt photocell		
3SY 3 Arm Side Mt. 1.9		WH White		A-34 480 Volt photocell		
4SC 4 Arm Side Mt. 2.5		CC Custom Color*		A-35 347 Volt Photocell		
1W Single Wall Mt. ¹ —		*Consult representative		CGL Convex Glass Lens		
				LS Polycarbonate Lens ²		
				HS Houseside shield ³		
				HSC Houseside shield for Convex Glass Lens ⁴		
				NFS Neighbor Friendly Backlight Shield ⁵		
				TL Tamper Resistant Latch ⁶		
				AF Air Filter		

NOTE: EPA is for Fixture only

FIXTURE

SAR - Horizontal	
SAR1 Horizontal Type I	
SAR2 Horizontal Type II	
SAR3 Horizontal Type III	
SAR4 Horizontal Type IV	
SAR5 Horizontal Type V	

ELECTRICAL MODULE

70PMH 70W PMH	70HPS 70W HPS	55IF 55W IF ⁸
100PMH 100W PMH	100HPS 100W HPS	NEW
150PMH 150W PMH	150HPS 150W HPS	
<u>Voltages</u>		
120 120V	120 120V	120 120V
208 208V ⁷	208 208V ⁷	208 208V ⁷
240 240V ⁷	240 240V ⁷	240 240V ⁷
277 277V	277 277V	277 277V
347 347V	347 347V	
480 480V	480 480V	

PMH = Pulse Start Metal Halide
 HPS = High Pressure Sodium
 IF = Induction Fluorescent

SLIPFITTER MOUNTING OPTIONS

VERTICAL	
4" Round, Standard Fixtures	
VSF-1SA 1 fixture side mt.	
VSF-2SB 2 fixtures side mt. 180°	
VSF-2SL 2 fixtures side mt. 90°	
VSF-3ST 3 fixtures side mt. 90°	
VSF-3SY 3 fixtures side mt. 120°	
VSF-4SC 4 fixtures side mt. 90°	
4" Square, Standard Fixtures	
SVSF-1SA 1 fixture side mt.	
SVSF-2SB 2 fixtures side mt. 180°	
SVSF-2SL 2 fixtures side mt. 90°	
SVSF-3ST 3 fixtures side mt. 90°	
SVSF-4SC 4 fixtures side mt. 90°	
HORIZONTAL	
HSF for Pole Davit Arm	

¹ Junction box in wall must provide adequate fixture support.
² Use only in high-vandalism situations. Useful life is limited by UV discoloration from sunlight and metal halide lamps.
³ Recommended for clear lamps only. Not for use with Type V light distributions.
⁴ For use with all fixtures with convex glass lens. Not for use with Type V light distributions.
⁵ Only available with Type IV reflectors.

⁶ Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.
⁷ Constant wattage isolated ballast is required on all 208V and 240V Canadian orders.
⁸ 55W IF available in type III distribution only.

NOTE: Due to the Energy Independence and Security Act (EISA) of 2007, Kim Lighting can no longer supply probe start Metal Halide ballasts with its luminaires, effective January 1, 2009. Contact Kim Lighting for availability of replacement ballasts for warranty service claims. (Visit www.aboutlightingcontrols.org or the Library of Congress website for more details).

