

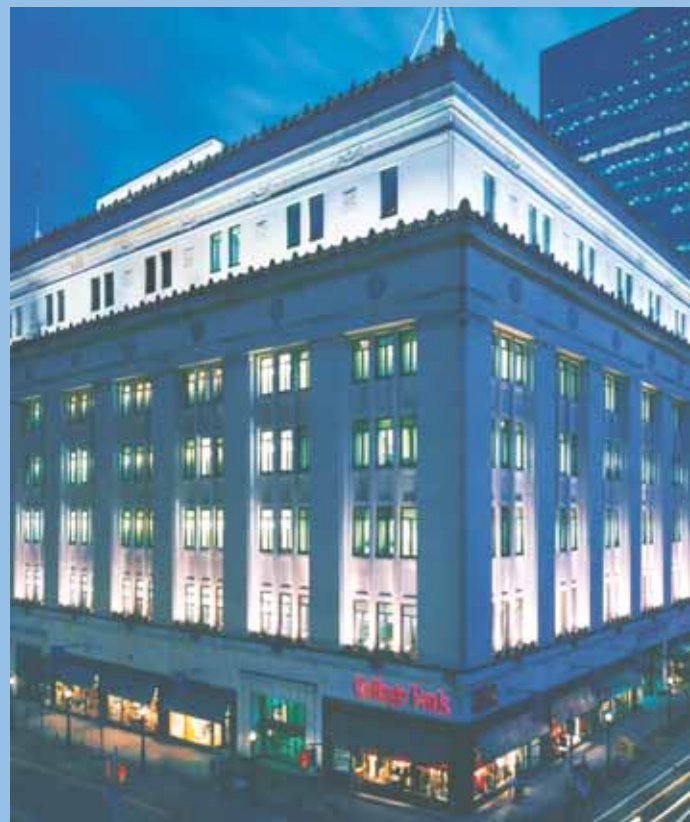


## Outdoor

Lithonia Lighting outdoor products are unmatched in the industry for distinctive designs, mechanical integrity and high-performance optical systems.

These high-quality products are characterized by superior-grade materials for reliability, highly engineered designs for performance and skilled craftsmanship for aesthetic styling.

With a wide selection of luminaires, poles, mounting options and finishes, Lithonia Lighting is your best choice for every architectural and general purpose lighting application.





473



475



476



481



492



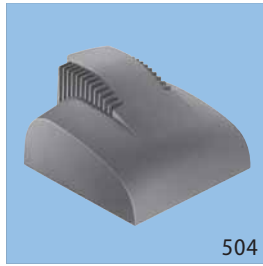
496



499



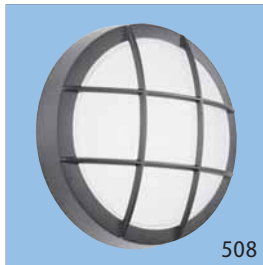
502



504



506



508



513



515



516



518



522



526



536

## CONTENTS

**Area Lighting** 470

**Roadway Lighting** 486

**Security Lighting** 496

**Site Lighting** 499

**Building-Mounted Lighting** 504

**Parking Garage Lighting** 518

**Canopy Lighting** 521

**Floodlighting** 522

**Motion Sensors** 536

**Sportlighting** 538

**Options & Accessories** 540

**Floodlighting Design Guidelines** 550

**Poles** 552

**AERIS**<sup>TM</sup>

Architectural Outdoor Illumination  
*Style - Versatility - Performance*



**Graceful curvature, advanced optics  
and uncompromised construction.**

*Whether it's a parking area, a building  
entrance or full campus area lighting, the  
Aeris<sup>TM</sup> Architectural Outdoor Family delivers  
a complete lighting solution.*

**Aeris™ Architectural Area & Roadway Lighting**

Add a touch of style to roadway and area lighting. AS1 and AS2 low-profile illumination solutions are designed to provide superior and precise lighting performance.

Located on page 472.



**Aeris™ Suspend**

Bring the unique architectural element of the AST decorative extension to your AS area application environment.

Located on page 473.



**Aeris™ Building Mounted**

Combine stylish form with the function of full cutoff roadway and specialty distributions with the field aiming capabilities of ASW architectural building mounted illumination.

Located on page 504.



**Aeris™ Bollard**

Illuminate pathways with aesthetically pleasing bollards – the ASB Series offers a variety of decorative tops and lighting distribution to choose from.

Located on page 499.



**Aeris™ Floodlight**

Provide sophisticated floodlight designs with the ASF – quality engineered optics in two housing styles deliver flexible performance in both in low and high wattage.

Located on page 522.



# Architectural Arm-Mounted Full Cutoff

# AS

Area

Aeris™

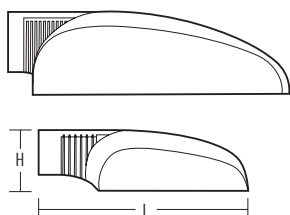


## Ordering Information

Designation	Distribution
<u>High pressure sodium</u>	
AS1 35S <sup>1</sup>	SR2 Segmented Type II roadway
AS1 50S <sup>2</sup>	SR3 Segmented Type III asymmetric
AS1 70S	SR4SC Segmented Type IV forward throw, sharp cutoff
AS1 100S	
AS1 150S	SR4W Segmented Type IV wide, forward throw (size 2 only)
AS2 200S	
AS2 250S	SR5S Segmented Type V square
AS2 400S	
<u>Metal halide</u>	
AS1 50M <sup>3</sup>	
AS1 70M <sup>3</sup>	
AS1 100M	
AS1 150M <sup>4</sup>	
AS1 175M	
AS2 200M <sup>5</sup>	
AS2 250M <sup>4</sup>	
AS2 320M <sup>5</sup>	
AS2 350M <sup>5</sup>	
AS2 400M <sup>4</sup>	
<u>Compact fluorescent</u>	
AS1 2/32TRT <sup>6</sup>	
AS1 42TRT	
AS1 2/42TRT <sup>6</sup>	
AS1 57TRT	
AS1 70TRT	

**NOTES:**

- 120V only.
- 120V and 277V only.
- Not available with 480V.
- May be ordered with SCWA.
- Must be ordered with SCWA.
- Available in SR3 only.
- Consult factory for availability in Canada. (Not available in 150S CWI)
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Compact fluorescent only, 120V-277V.
- Multi-volt electronic ballast (for TRT and DTT lamps) capable of operating on any line voltage between 120V and 277V.
- Mounting block standard.
- SF, DF or QRS options cannot be ordered together.
- Consult factory for availability.



## Intended Use

For streets, walkways, parking lots and surrounding areas.

## Features

**Housing** – Die-cast single-piece aluminum with nominal 1/8" wall thickness. Integral arm provides easy installation to pole or wall. Housing completely sealed against moisture or environmental contaminants.

**Door Assembly** – Die-cast door frame, impact-resistant, tempered, glass lens, 3/16" thick, fully sealed with one-piece tubular silicone gasket. Tool-less entry and closure via spring-loaded die-cast latches.

**Optics** – Anodized segmented reflectors for superior uniformity and control. Reflectors attach with tool-less fasteners and are rotatable and interchangeable.

**Installation** – Heavy-duty easy-mount block attaches to pole or wall to provide ease of installation as well as ensured alignment and leveling.

Voltage	Mounting <sup>11</sup>
---------	------------------------

120	<u>Included</u>
208 <sup>7</sup>	SPA Square pole mounting block
240 <sup>7</sup>	RPA Round pole mounting block
277	WBA Wall bracket (up or down)
347	
480 <sup>7</sup>	<u>Shipped separately</u>
TB <sup>8</sup>	ASKMA1 Mast arm adapter (size 1)
MVOLT <sup>9,10</sup>	ASKMA2 Mast arm adapter (size 2)
	DSAS1 Decorative straight arm, square pole only (size 1)
	DSAS1R Decorative straight arm, round pole only (size 1)
	DSAS2 Decorative straight arm, square pole only (size 2)
	DSAS2R Decorative straight arm, round pole only (size 2)
	DCAS1 Decorative curved arm, square pole only (size 1)
	DCAS1R Decorative curved arm, round pole only (size 1)
	DCAS2 Decorative curved arm, square pole only (size 2)
	DCAS2R Decorative curved arm, round pole only (size 2)

Dimensions are shown in inches (centimeters) unless otherwise noted.

	AS1	AS2
EPA:	.7 ft <sup>2</sup>	1.2 ft
Length:	21.38 (54.5)	28 (71.0)
Width:	12.5 (31.7)	16.25 (41.9)
Height:	6.28 (15.9)	8.25 (21.0)
Weight:	22 lbs (10 kg)	45 lbs (20.4 kg)

**Electrical** – 150W and below utilize a high reactance, high power factor. 175W and above use a constant-wattage autotransformer ballast. Compact fluorescent uses an electronic high frequency ballast. Ballasts mounted on removable power tray with tool-less latch and have positive locking disconnect plugs. Ballasts are copper wound and 100% factory tested.

**Finish** – Standard finish is dark bronze (DDB) corrosion-resistant polyester powder finish. Other architectural colors available.

**Socket** – Porcelain, medium-base socket for AS1, mogul-base socket for AS2, with copper alloy nickel-plated screw shell and center contact. Fluorescent is four-pin positive latching thermoplastic. UL Listed.

## Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations in lens-down orientation (damp location listed in lens-up orientation). Meets IESNA full cutoff criteria. U.S. patent no. D447, 590. Canadian patent no. 94324. IP64 rated.

## Example: AS1 150S SR2 120 SPA SF LPI

Options/accessories
---------------------

<u>Installed</u>
LPI Lamp included
L/LP Less lamp
SF Single fuse, 120V, 277V, 347V (n/a TB and MVOLT) <sup>12</sup>
DF Double fuse, 208V, 240V, 480V (n/a TB and MVOLT) <sup>12</sup>
PER NEMA twist-lock receptacle only (no photocontrol)
QRS Quartz restrike system (100W max. AS1, 250W max. AS2, lamp not included) <sup>12</sup>
CR Enhanced corrosion resistance
HS House-side shield (n/a SR4SC or SR5S)
EC Emergency circuit <sup>13</sup>
TP Tamperproof
SCWA Super CWA pulse start ballast (n/a HPS, DTT, TRT, 50M, 70M or 100M)
CSA CSA Certified
NOM NOM Certified <sup>13</sup>
For optional architectural colors, see page 543.
<u>Shipped separately</u>
PE1 NEMA twist-lock PE (120V, 208V, 240V)
PE3 NEMA twist-lock PE (347V)
PE4 NEMA twist-lock PE (480V)
PE7 NEMA twist-lock PE (277V)
SC Shorting cap
AS1VG Vandal guard
AS2VG Vandal guard
For tenon slipfitters, see page 540.

## Drilling Patterns:

(see pole ordering, pg. 552)

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)



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

May not meet with HS option.

# AST

Suspend  
Aeris™



Example: **AST1 150S SR2 120 SPA SF LPI**

### Intended Use

For streets, walkways, parking lots and surrounding areas.

### Features

**Housing** – Die-cast single-piece aluminum with nominal 1/8" wall thickness. Integral arm provides easy installation to pole or wall. Housing completely sealed against moisture or environmental contaminants.

**Door Assembly** – Die-cast door frame, impact-resistant, tempered, glass lens, 3/16" thick, fully sealed with one-piece tubular silicone gasket. Tool-less entry and closure via spring-loaded die-cast latches.

**Optics** – Anodized segmented reflectors for superior uniformity and control. Reflectors attach with tool-less fasteners and are rotatable and interchangeable.

**Electrical** – 150W and below utilize a high reactance, high power factor. 175W and above use a constant-wattage autotransformer ballast. Com-

compact fluorescent uses an electronic high frequency ballast. Ballasts mounted on removable power tray with tool-less latch and have positive locking disconnect plugs. Ballasts are copper wound and 100% factory tested.

**Finish** – Standard finish is dark bronze (DDB) corrosion-resistant polyester powder finish. Other architectural colors available.

**Socket** – Porcelain, medium-base socket for AST1, mogul-base socket for AST2, with copper alloy nickel-plated screw shell and center contact. Fluorescent is four-pin positive latching thermoplastic. UL Listed.

### Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations in lens-down orientation (damp location listed in lens-up orientation). Meets IESNA full cutoff criteria. U.S. patent no. D447, 590. Canadian patent no. 94324.

### Ordering Information

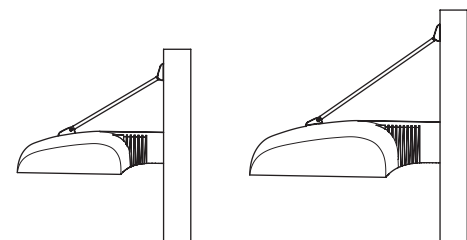
Designation	Distribution	Voltage	Mounting <sup>11,12</sup>	Options/accessories
<u>High pressure sodium</u>	<b>SR2</b> Segmented Type II roadway	<b>120</b>	<u>Included</u>	<u>Installed</u>
<b>AST1 35S<sup>1</sup></b>	<b>SR3</b> Segmented Type III asymmetric	<b>208<sup>7</sup></b>	<b>SPA</b> Square pole mounting block	<b>LPI</b> Lamp included
<b>AST1 50S<sup>2</sup></b>	<b>SR4SC</b> Segmented Type IV forward throw, sharp cutoff	<b>240<sup>7</sup></b>	<b>RPA</b> Round pole mounting block	<b>L/LP</b> Less lamp
<b>AST1 70S</b>		<b>277</b>	<b>WBA</b> Wall bracket (up or down)	<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB and MVOLT) <sup>13</sup>
<b>AST1 100S</b>		<b>347</b>		<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB and MVOLT) <sup>13</sup>
<b>AST1 150S</b>	<b>SR4W</b> Segmented Type IV wide, forward throw (size 2 only)	<b>480<sup>7</sup></b>		<b>PER</b> NEMA twist-lock receptacle only (no photocontrol)
<b>AST2 200S</b>		<b>TB<sup>8</sup></b>		<b>QRS</b> Quartz restrrike system (100W max. AS1, 250W max. AS2, lamp not included) <sup>13</sup>
<b>AST2 250S</b>	<b>SR5S</b> Segmented Type V square	<b>MVOLT<sup>9,10</sup></b>		<b>CR</b> Enhanced corrosion resistance
<b>AST2 400S</b>				<b>HS</b> House-side shield (n/a SR4SC or SR5S)
<u>Metal halide</u>				<b>EC</b> Emergency circuit <sup>14</sup>
<b>AST1 50M<sup>3</sup></b>			<u>Drilling patterns:</u> (see pole ordering, pg. 552)	<b>TP</b> Tamperproof
<b>AST1 70M<sup>3</sup></b>			DM19AST1 1at90°	<b>SCWA</b> Super CWA pulse start ballast (n/a HPS, DTT, TRT, 50M, 70M or 100M)
<b>AST1 100M</b>			DM19AST2 1at90°	<b>CSA</b> CSA Certified
<b>AST1 150M<sup>4</sup></b>			DM28AST1 2at180°	<b>NOM</b> NOM Certified <sup>14</sup>
<b>AST1 175M</b>			DM28AST2 2at180°	For optional architectural colors, see page 543.
<b>AST2 200M<sup>5</sup></b>			DM29AST1 2at90°	<u>Shipped separately</u>
<b>AST2 250M<sup>4</sup></b>			DM29AST2 2at90°	<b>PE1</b> NEMA twist-lock PE (120V, 208V, 240V)
<b>AST2 320M<sup>5</sup></b>			DM39AST1 3at90°	<b>PE3</b> NEMA twist-lock PE (347V)
<b>AST2 350M<sup>5</sup></b>			DM39AST2 3at90°	<b>PE4</b> NEMA twist-lock PE (480V)
<b>AST2 400M<sup>4</sup></b>			DM49AST1 4at90°	<b>PE7</b> NEMA twist-lock PE (277V)
<u>Compact fluorescent</u>			DM49AST2 4at90°	<b>SC</b> Shorting cap
<b>AST1 2/32TRT<sup>6</sup></b>			DM32AST1 3at120° (round poles only)	<b>AS1VG</b> Vandal guard
<b>AST1 42TRT</b>			DM32AST2 3at120° (round poles only)	<b>AS2VG</b> Vandal guard
<b>AST1 2/42TRT<sup>6</sup></b>				
<b>AST1 57TRT</b>				
<b>AST1 70TRT</b>				

**NOTES:**

- 120V only.
- 120V and 277V only.
- Not available with 480V.
- May be ordered with SCWA.
- Must be ordered with SCWA.
- Available in SR3 only.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Compact fluorescent only, 120V-277V.
- Multi-volt electronic ballast (for TRT and DTT lamps) capable of operating on any line voltage between 120V and 277V.
- Mounting block standard.
- AST mounts 9.64" lower than specified pole height. AST2 mounts 13.89" lower than specified height.
- SF, DF or QRS options cannot be ordered together.
- Consult factory for availability.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	AST1	AST2
EPA:	.7ft <sup>2</sup>	1.2ft <sup>2</sup>
Length:	21.38(54.5)	28(71.0)
Width:	12.5(31.7)	16.25(41.9)
Height:	6.28(15.9)	8.25(21.0)
Weight:	22lbs(10kg)	45lbs(20.4kg)



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction  
May not meet with HS option.

Architectural Arm-Mounted Cutoff

# KSE

Symmetra™



Ordering Information

Designation	Distribution
<u>High pressure sodium</u>	
KSE1 70S	R2 Type II roadway
KSE1 100S	R3 Type III asymmetric
KSE1 150S	R4SC Type IV forward throw, sharp cutoff
KSE2 250S	R4W Type IV wide, forward throw (size 2 only)
KSE2 400S	R5S Type V square (size 2 only)
<u>Metal halide</u>	
KSE1 100M	
KSE1 150M <sup>1</sup>	
KSE1 175M	
KSE1 200M <sup>2</sup>	
KSE2 250M <sup>1</sup>	
KSE2 320M <sup>2,3</sup>	
KSE2 350M <sup>2,3</sup>	
KSE2 400M <sup>1,3</sup>	

Intended Use

For car lots, street lighting or parking areas.

Features

**Housing** – Rugged, heavy-gauge, extruded aluminum housing. Square shape, seam-welded and internally sealed for weathertight integrity. Standard finish is dark bronze corrosion-resistant polyester powder (DDB). Architectural Class 1 anodize finish and other architectural colors available.

**Optics** – Anodized, segmented reflectors for uniformity and control. Reflectors are tool-less, rotatable and interchangeable. Five cutoff distributions available: R2 (roadway), R3 (asymmetric), R4SC (forward throw, sharp cutoff), R4W (wide, forward throw) and R5S (symmetric).

**Door Frame** – Natural anodized, extruded aluminum door frame sealed to housing by silicone closed-cell gasket. Can be hinged from any of the four sides.

**Lens** – .125"-thick, impact-resistant tempered glass.

**Mounting** – Extruded 4" aluminum arm for square pole mounting, shipped in fixture carton as standard. Optional mountings available.

**Electrical** – High reactance, high power factor for 150W and below. Constant wattage autotransformer for 175W and above. Copper wound and 100% factory tested. Removable power tray and positive-locking disconnect plug.

**Socket** – Medium-base socket for 150W MH and below. Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations.

Example: **KSE1 150S R2 120 SP09 PER LPI**

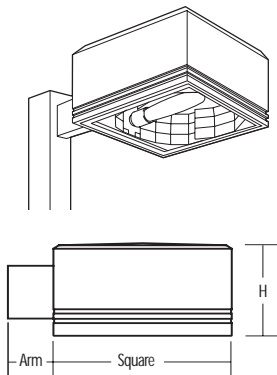
Voltage	Mounting
120	<u>Included</u>
208 <sup>4</sup>	SP04 4" square pole arm (std.) <sup>6</sup>
240 <sup>4</sup>	SP09 9" square pole arm
277	RP04 4" round pole arm <sup>6</sup>
347	RP09 9" round pole arm
480 <sup>4</sup>	WB04 4" wall bracket
TB <sup>5</sup>	WB09 9" wall bracket
	<u>Shipped separately</u>
	KMA Mast arm adapter
	KTMB Twin mounting bar
	DA12P Degree arm (pole)
	DA12WB Degree arm (wall)

Options/accessories	
<u>Installed</u>	
LPI Lamp included	
L/LP Less lamp	
SF Single fuse, 120V, 277V, 347V (n/a TB)	
DF Double fuse, 208V, 240V, 480V (n/a TB)	
PER NEMA twist-lock receptacle only (no photocontrol)	
QRS Quartz restrike system (100W max. in KSE1, 150 W max. in KSE2, 120V lamp not included).	
CR Enhanced corrosion resistance	
EC Emergency circuit	
SCWA Super CWA pulse start ballast (n/a HPS or 100M, 175M)	
CSA CSA Certified	
NOM NOM Certified (consult factory)	
For optional architectural colors, see page 543.	
<u>Shipped separately</u>	
PE1 NEMA twist-lock PE (120V-240V)	
PE3 NEMA twist-lock PE (347V)	
PE4 NEMA twist-lock PE (480V)	
PE7 NEMA twist-lock PE (277V)	
SC Shorting cap for PER option	
KSE1HS House-side shield (R2, R3 only)	
KSE2HS House-side shield (R2, R3 only)	
KSE1VG Vandal guard	
KSE2VG Vandal guard	
For tenon slipfitters, see page 540.	

- NOTES:
- 1 May be ordered with SCWA.
  - 2 Must be ordered with SCWA.
  - 3 Must use ED28 lamp.
  - 4 Consult factory for availability in Canada.
  - 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
  - 6 Use 9" arm when mounting two luminaires at 90°.
  - 7 Includes mounting arm.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	KSE1	KSE2
EPA: <sup>7</sup>	1.3 ft <sup>2</sup> (.12 m <sup>2</sup> )	1.9 ft <sup>2</sup> (.18 m <sup>2</sup> )
Square:	15-11/16 (39.8)	19 (48.3)
Height:	8-3/4 (22.2)	10-15/16 (27.8)
Max. weight:	26.6 lbs (12.1 kg)	39.9 lbs (18.1 kg)



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

# KSF

Spec-Form®



Example: **KSF1 150S R2 120 SP09 PER LPI**

### Intended Use

For car lots, street lighting or parking areas.

### Features

**Housing** – Rugged, heavy-gauge, aluminum recilinear housing. All seams continuously welded for weathertight integrity. Dark bronze corrosion-resistant polyester powder finish (DDB) standard. Other architectural colors available.

**Door Frame** – Natural anodized, extruded aluminum frame with mitered corners, retained with two hinge pins and secured with one quarter-turn, quick-release fastener. Integrally designed, extruded silicone gasket provides weatherproof seal between housing and frame.

**Lens** – .125" thick, impact-resistant tempered glass with thermally applied, silk-screened power door shield.

**Mounting** – Extruded 4" (KSF1, KSF2) or 12" (KSF3) aluminum arm for square pole mounting shipped in fixture carton as standard. Optional mountings available.

**Optics** – Anodized segmented reflectors provide superior uniformity and control. KSF1/KSF2 reflectors are rotatable and interchangeable. KSF3 Type IV is rotatable. Five cutoff distributions available: R2 (roadway), R3 (asymmetric), R4SC (forward throw, sharp cutoff), R4W (wide, forward throw), R5S (square).

**Electrical** – High reactance, high power factor for 150W and below. Constant wattage autotransformer for 175W and above. Copper wound and 100% factory tested. Removable power door and positive-locking disconnect plugs.

**Socket** – Porcelain, horizontally oriented, mogul-base socket (100M and 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V.

### Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.

## Ordering Information

Designation	Distribution	Voltage	Mounting	Options/accessories
<b>High pressure sodium</b>			<b>Included, KSF1/KSF2</b>	<b>Installed</b>
KSF1 70S	R2 Type II roadway (sizes 1 and 2 only)	120	SP04 4" square pole arm (std.) <sup>7</sup>	LPI Lamp included
KSF1 100S	R3 Type III asymmetric	208 <sup>5</sup>	SP09 9" square pole arm	L/LP Less lamp
KSF1 150S	R4 Type IV forward throw (size 3 only)	240 <sup>5</sup>	RP04 4" round pole arm <sup>7</sup>	SF Single fuse, 120V, 277V, 347V (n/a TB)
KSF2 250S	R4SC Type IV forward throw, sharp cutoff (sizes 1 and 2 only)	277	RP09 9" round pole arm	DF Double fuse, 208V, 240V, 480V (n/a TB)
KSF2 400S	R4W Type IV wide, forward throw (size 2 only)	347	WB04 4" wall bracket	PER NEMA twist-lock receptacle only (no photocontrol)
KSF3 1000S	R5S Type V square (sizes 2 and 3 only)	480 <sup>5</sup>	WB09 9" wall bracket	QRS Quartz restrike system (max lamp: KSF1 75W; KSF2 100W; KSF3 250W) <sup>10</sup>
		TB <sup>6</sup>	MB Mounting bracket (KSF1 only)	CR Enhanced corrosion resistance
<b>Metal halide</b>			<b>Included, KSF3<sup>8</sup></b>	EC Emergency circuit
KSF1 100M			SP12 12" square pole arm (std.)	SCWA Super CWA pulse start ballast (n/a HPS, 100M, 175M)
KSF1 150M <sup>1</sup>			RP12 12" round pole arm	CSA CSA Certified
KSF1 175M			WW12 12" wood pole or wall	NOM NOM Certified (consult factory)
KSF1 200M <sup>2</sup>			WB12 12" wall bracket	For optional architectural colors, see page 543.
KSF1 250M			<b>Shipped separately<sup>9</sup></b>	<b>Shipped separately</b>
KSF2 320M <sup>2,3</sup>			KMA Mast arm adapter	PE1 NEMA twist-lock PE (120V-240V)
KSF2 350M <sup>2,3</sup>			KTMB Twin mounting bar	PE3 NEMA twist-lock PE (347V)
KSF2 400M <sup>1,3</sup>			DA12P Degree arm (pole)	PE4 NEMA twist-lock PE (480V)
KSF3 1000M <sup>1,4</sup>			DA12WB Degree arm (wall)	PE7 NEMA twist-lock PE (277V)
				SC Shorting cap for PER option
				KSF_HS House-side shield (KSF1/KSF2: R2 and R3 only. KSF3: R3 and R4 only)
				KSF_VG Vandal guard (KSF1/KSF2 only)
				For tenon slipfitters, see page 540.

### NOTES:

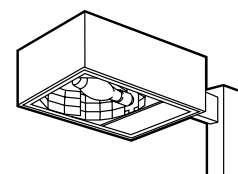
- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA.
- 3 Must use ED28 lamp.
- 4 Must use BT37 lamp with R5S.
- 5 Consult factory for availability in Canada.
- 6 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 7 Use 9" arm when mounting two luminaires at 90°.
- 8 Use 12" arm when mounting two luminaires at 90°.
- 9 May be ordered as accessory.
- 10 QRSTD available in select wattages. Consult factory.
- 11 Includes mounting arm.



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	KSF1	KSF2	KSF3
EPA-11	1.5 ft² (.14 m²)	2.0 ft² (.19 m²)	3.0 ft² (.28 m²)
Length:	22 (55.9)	25-5/26 (64.3)	30-5/16 (77.0)
Width:	16-3/16 (41.1)	18-1/2 (47.0)	24-5/16 (61.8)
Height:	7-1/4 (18.4)	8-5/16 (21.1)	10-1/2 (26.7)
Max. weight:	39 lbs (17.7 kg)	55 lbs (24.9 kg)	85 lbs (38.6 kg)





## Arm-Mounted Drop or Flat Lens Cutoff

# KAD KAC

Contour®



### Intended Use

For parking areas, street lighting, walkways and car lots.

### Features

Housing – Rugged, die-cast, soft-corner aluminum housing with 0.12" nominal wall thickness. Extruded 4" soft corner arm for pole or wall mounting is standard.

Door Frame – KAD die-cast door frame has impact-resistant, tempered glass lens which is fully gasketed with one-piece bonded silicone. KAC die-cast aluminum door frame has prismatic, impact-resistant, tempered glass, drop dish acrylic lens or drop dish polycarbonate lens. Door frame is fully gasketed with one-piece silicone.

Optics – KAD reflectors are anodized hydro-formed or segmented aluminum. Four cutoff distributions available: R2 (roadway), R3 (asymmetric), R4 (forward throw) and R5 (symmetric). High-performance, segmented reflectors are rotatable and field-interchangeable. KAC reflector is optical-quality aluminum that works in tandem

with a light-diffusing prismatic lens.

Electrical – Ballast is high-reactance, high power factor (70-150W HPS, 100M and 150M) or high power factor constant-wattage autotransformer (175-400W MH and HPS). Ballast is copper wound and 100% factory tested.

Finish – Dark bronze corrosion-resistant polyester powder finish (DDB), with other architectural colors available.

Socket – Porcelain, horizontally (position) oriented mogul-base socket (100M and 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated.

### Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). KAD UL Listed for wet locations. IP65 Rated.

### Ordering Information

Series	Wattage	Distribution	Voltage	Mounting
<b>KAD</b>	<u>High pressure sodium</u>	<u>KAD – standard reflector</u>	<b>120</b>	<u>Included</u>
<b>KAC</b>	<b>705</b>	<b>R2</b> Type II roadway	<b>208<sup>4</sup></b>	<b>SPD04</b> 4" square pole arm (std.) <sup>6</sup>
	<b>1005</b>	<b>R3</b> Type III asymmetric	<b>240<sup>4</sup></b>	<b>SPD09</b> 9" square pole arm
	<b>1505</b>	<b>R4</b> Type IV forward throw, sharp cutoff	<b>277</b>	<b>RPD04</b> 4" round pole arm <sup>6</sup>
	<b>2505</b>	<b>R5S</b> Type V square	<b>347</b>	<b>RPD09</b> 9" round pole arm
	<b>4005</b>		<b>480<sup>4</sup></b>	<b>WBD04</b> 4" wall bracket
	<u>Metal halide</u>	<u>KAD – high performance reflector</u>	<b>TB<sup>5</sup></b>	<b>WBD09</b> 9" wall bracket
	<b>100M</b>	<b>SR2</b> Type II asymmetric		<u>Shipped separately</u>
	<b>150M<sup>1</sup></b>	<b>SR3</b> Type III asymmetric		<b>KMA</b> Mast arm adapter
	<b>175M</b>	<b>SR4SC</b> Type IV forward throw, sharp cutoff		<b>KTMB</b> Twin mounting bar
	<b>200M<sup>2</sup></b>			<b>DAD12P</b> Degree arm (pole)
	<b>250M<sup>1</sup></b>	<u>KAC – prismatic lens</u>		<b>DAD12WB</b> Degree arm (wall)
	<b>320M<sup>2,3</sup></b>	<b>FP</b> Flat C73T		
	<b>350M<sup>2,3</sup></b>	<b>DPA</b> Drop acrylic		
	<b>400M<sup>1,3</sup></b>	<b>DPP</b> Drop polycarbonate		

### Example: KAD 400M R3 120 SPD09 LPI

Options/accessories	
<u>Installed</u>	
<b>LPI</b>	Lamp included
<b>L/LP</b>	Less lamp
<b>SF</b>	Single fuse, 120V, 277V, 347V (n/a TB)
<b>DF</b>	Double fuse, 208V, 240V, 480V (n/a TB)
<b>PER</b>	NEMA twist-lock receptacle only (no photocontrol)
<b>QRS</b>	Quartz restrike system (250W max., 120V lamp not included) <sup>7</sup>
<b>PD</b>	Power tray <sup>8</sup>
<b>WTB</b>	Terminal block <sup>8</sup>
<b>EC</b>	Emergency circuit
<b>SCWA</b>	Super CWA pulse start ballast (n/a HPS, 100M or 175M)
<b>CSA</b>	CSA Certified
<b>NOM</b>	NOM Certified (consult factory)

For optional architectural colors, see page 543.

### Shipped separately<sup>9</sup>

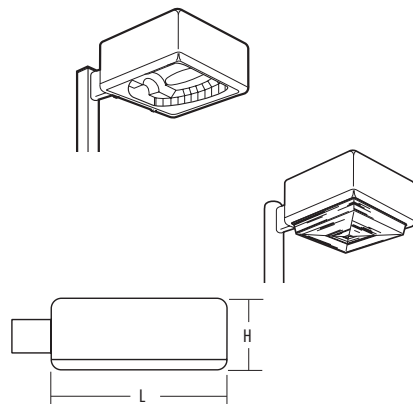
<b>PE1</b>	NEMA twist-lock PE (120V-240V)
<b>PE3</b>	NEMA twist-lock PE (347V)
<b>PE4</b>	NEMA twist-lock PE (480V)
<b>PE7</b>	NEMA twist-lock PE (277V)
<b>SC</b>	Shorting cap for PER option
<b>HS</b>	House-side shield (R2, R3, R4) (SR2, SR3)
<b>KADVG</b>	Vandal guard for KAD
<b>KADWG</b>	Wireguard for KAD
<b>KACVG</b>	Vandal guard for KAC
<b>KACWG</b>	Wireguard for KAC
<b>KADWBA</b>	Decorative wall bracket for KAD <sup>11</sup>

### NOTES:

- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA.
- 3 Requires ED28 lamp when ordered with SR2, SR3 or SR4SC distributions.
- 4 Consult factory for availability in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V.
- 6 SPD09, RPD09 or WWD09 must be used when luminaires are oriented on DM29, DM39 or DM49 drilling pattern.
- 7 QRSTD available in select wattages. Consult factory.
- 8 Only available with SR2, SR3, SR4SC optics.
- 9 May be ordered as an accessory.
- 10 Includes mounting arm.
- 11 Only available with SPD04 and SPD09

Dimensions are shown in inches (centimeters) unless otherwise noted.

	<u>KAD &amp; KACFP</u>	<u>KAC DP</u>
EPA: <sup>10</sup>	1.2ft <sup>2</sup> (.11m <sup>2</sup> )	1.4ft <sup>2</sup> (.13m <sup>2</sup> )
Square:	17-1/2(44.5)	17-1/2(44.5)
Height:	7-1/8(18.1)	11-1/8(28.3)
Max. weight:	42lbs (19.1kg)	40lbs (18.1kg)



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction  
Applies to KAD only.

## Arm-Mounted Drop or Flat Lens Cutoff

### Intended Use

For parking areas, street lighting, walkways and car lots.

### Features

**Housing** – Rugged, die-cast, soft-corner aluminum housing with 0.12" nominal wall thickness. Extruded 4" soft corner arm for pole or wall mounting is standard.

**Door Frame** – KADT die-cast door frame has impact-resistant, tempered glass lens which is fully gasketed with one-piece bonded silicone. Door frame is fully gasketed with one-piece silicone gasket.

**Optics** – KADT reflectors are anodized hydroformed or segmented aluminum. Four cutoff distributions available: R2 (roadway), R3 (asymmetric), R4 (forward throw) and R5 (symmetric). High-performance segmented reflectors are rotatable and field-interchangeable. KAC reflector is optical-quality aluminum that works in tandem with a light-diffusing prismatic lens.

**Electrical** – Ballast is high-reactance, high power factor (70-150W HPS, 100M and 150M) or high power factor constant-wattage autotransformer (175-400W MH and HPS). Ballast is copper wound and 100% factory tested.

**Finish** – Dark bronze corrosion-resistant polyester powder finish (DDB), with other architectural colors available.

**Socket** – Porcelain, horizontally (position) oriented mogul-base socket (100M and 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated.

### Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 Rated.

# KADT

Suspend  
Contour®



Example: **KADT 400M R3 120 SPD04 LPI**

### Ordering Information

Series	Wattage	Distribution	Voltage	Mounting <sup>6</sup>
<b>KADT</b>	<u>High pressure sodium</u>	<u>KADT – standard reflector</u>	<b>120</b>	<u>Included</u> <b>SPD04</b> 4" square pole arm (std.)
	<b>705</b>	<b>R2</b> Type II roadway	<b>208<sup>4</sup></b>	
	<b>1005</b>	<b>R3</b> Type III asymmetric	<b>240<sup>4</sup></b>	
	<b>1505</b>	<b>R4</b> Type IV forward throw, sharp cutoff	<b>277</b>	
	<b>2505</b>	<b>R5S</b> Type V square	<b>347</b>	
	<b>4005</b>		<b>480<sup>4</sup></b>	
	<u>Metal halide</u>	<u>KADT – high-performance reflector</u>	<b>TB<sup>5</sup></b>	
	<b>100M</b>	<b>SR2</b> Type II asymmetric		
	<b>150M<sup>1</sup></b>	<b>SR3</b> Type III asymmetric		
	<b>175M</b>	<b>SR4SC</b> Type IV forward throw, sharp cutoff		
	<b>200M<sup>2</sup></b>			
	<b>250M<sup>1</sup></b>			
	<b>320M<sup>2,3</sup></b>			
<b>350M<sup>2,3</sup></b>				
<b>400M<sup>1,3</sup></b>				

### Options/accessories

Installed	
<b>LPI</b>	Lamp included
<b>L/LP</b>	Less lamp
<b>SF</b>	Single fuse, 120V, 277V, 347V (n/a TB)
<b>DF</b>	Double fuse, 208V, 240V, 480V (n/a TB)
<b>PER</b>	NEMA twist-lock receptacle only (no photocontrol)
<b>QRS</b>	Quartz restrike system (250W max., 120V lamp not included) <sup>7</sup>
<b>PD</b>	Power tray <sup>8</sup>
<b>WTB</b>	Terminal block <sup>8</sup>
<b>EC</b>	Emergency circuit
<b>SCWA</b>	Super CWA pulse start ballast (n/a HPS, 100M or 175M)
<b>CSA</b>	CSA Certified
<b>NOM</b>	NOM Certified (consult factory)

For optional architectural colors, see page 543.

### Shipped separately<sup>9</sup>

<b>PE1</b>	NEMA twist-lock PE (120V-240V)
<b>PE3</b>	NEMA twist-lock PE (347V)
<b>PE4</b>	NEMA twist-lock PE (480V)
<b>PE7</b>	NEMA twist-lock PE (277V)
<b>SC</b>	Shorting cap for PER option
<b>HS</b>	House-side shield (R2, R3, R4) (SR2, SR3)
<b>KADVG</b>	Vandal guard for KAD
<b>KADWG</b>	Wireguard for KAD

### NOTES:

- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA.
- 3 Requires ED28 lamp when ordered with SR2, SR3 or SR4SC distributions.
- 4 Consult factory for availability in Canada.
- 5 Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada).
- 6 KADT mounts 11.24" lower than specified pole height.
- 7 QRSTD available in select wattages. Consult factory.
- 8 Only available with SR2, SR3, SR4SC optics.
- 9 May be ordered as an accessory.
- 10 Includes mounting arm.

### Drilling Patterns:

(See pole ordering page 552.)

<b>DM19KADT</b>	1 at 90°
<b>DM28KADT</b>	2 at 180°
<b>DM32KADT</b>	3 at 120° (round poles only)

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

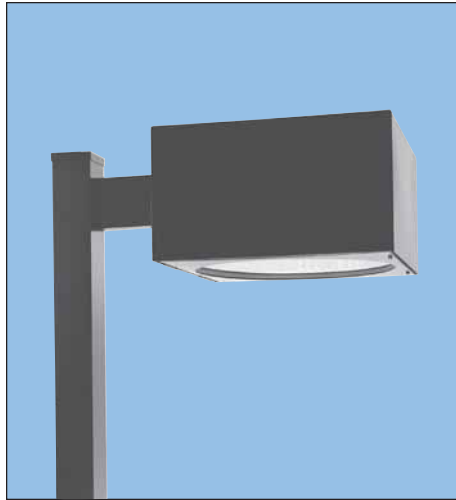
EPA <sup>10</sup> :	1.3 ft <sup>2</sup> (.12 m <sup>2</sup> )
Square:	17-1/2 (44.5)
Height:	7-1/8 (18.1)
Max. weight:	45 lbs (20.4)



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

# Architectural Vertical Cutoff

## KVF



### Intended Use

For car lots, street lighting or parking areas.

### Features

**Construction** – Heavy-gauge, die-formed aluminum housing, fabricated using robotic continuous seam-weld process for weathertight integrity. Integral structural support plate for mounting arm and electrical components. Hinged aluminium door frame with stainless steel hardware. Continuous silicone gasketing surrounds lens.

**Finish** – Standard finish is dark bronze corrosion-resistant electrostatically applied powder paint. Optional linear embossed accent reveals are available. Dark bronze polyester powder paint is standard. Other architectural colors available.

**Optics** – Vertical-lamp reflectors are one-piece spun and formed anodized aluminum. Horizontal-lamp reflectors also available. Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. Horizontal

position-oriented for types R2, R3 and R4. Reflectors are rotatable and interchangeable. UL Listed 1500W-600V, 4KV pulse rated. (1000S is 5K pulse rated.)

**Electrical** – Electrical components mounted to heavy-gauge plate to maximize heat dissipation and structural integrity. Constant-wattage autotransformer ballasts are copper wound and 100% factory tested. Super CWA pulse start ballasts required for 320M, 350M, 450M and 750M (must order SCWA option).

**Installation** – Extruded aluminium arm with integral splice compartment. Standard arm is 9" in length. (12" arm is required for fixtures mounted at 90°.)

### Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations. Optical chamber is IP65 rated for ingress protection per IEC529 international standards.

### Ordering Information

Example: **KVF 1000M SYMDL 480 SP09 LPI**

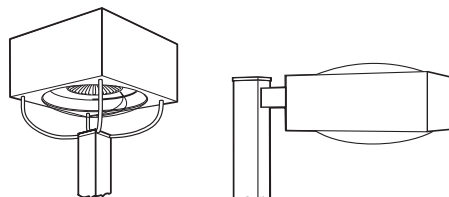
Designation	Distribution	Voltage	Mounting	Options/accessories
<b>High pressure sodium</b>	<b>Vertical lamp distribution</b>	<b>120</b>	<b>Arm mounting</b>	<b>Installed</b>
<b>KVF 250S</b>	<b>SYMDL</b> Symmetric square, drop lens, semi-cutoff	<b>208<sup>7</sup></b>	<b>SP04</b> 4" Square pole arm <sup>9</sup>	<b>LPI</b> Lamp included
<b>KVF 400S</b>	<b>ASYDL</b> Asymmetric, drop lens, semi-cutoff	<b>240<sup>7</sup></b>	<b>RP04</b> 4" Round pole arm <sup>9</sup>	<b>L/LP</b> Less lamp
<b>KVF 1000S<sup>1</sup></b>	<b>SYMFL</b> Symmetric square, flat lens, full-cutoff <sup>5</sup>	<b>277</b>	<b>SP06</b> 6" Square pole arm <sup>9</sup>	<b>PER</b> NEMA twist-lock receptacle only (photocontrol not included)
<b>Metal halide</b>	<b>ASYFL</b> Asymmetric, flat lens, full-cutoff <sup>5</sup>	<b>347</b>	<b>RP06</b> 6" Round pole arm <sup>9</sup>	<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB)
<b>KVF 175M<sup>2</sup></b>	<b>VFADL</b> Vertical forward throw, automotive, drop lens, semi-cutoff	<b>480<sup>7</sup></b>	<b>SP09</b> 9" Square pole arm <sup>9</sup>	<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB)
<b>KVF 200M<sup>3</sup></b>	<b>VFAFL</b> Vertical forward throw, automotive, flat lens, full-cutoff <sup>5</sup>	<b>TB<sup>8</sup></b>	<b>RP09</b> 9" Round pole arm <sup>9</sup>	<b>EC</b> Emergency circuit (250W max., lamp not included)
<b>KVF 250M<sup>2</sup></b>			<b>SP12</b> 12" Square pole arm	<b>SCWA</b> Super CWA pulse start ballast (n/a HPS) <sup>11</sup>
<b>KVF 320M<sup>3</sup></b>	<b>Horizontal lamp distribution</b>		<b>RP12</b> 12" Round pole arm	<b>KW1</b> KiloWatch 120V control relay <sup>12</sup>
<b>KVF 350M<sup>3</sup></b>	<b>R2DL</b> Type II roadway, drop lens <sup>5</sup>		<b>WB12</b> 12" Wall bracket	<b>KW4</b> KiloWatch 277V control relay <sup>12</sup>
<b>KVF 400M<sup>2</sup></b>	<b>R3DL</b> Type III asymmetric, drop lens <sup>5</sup>		<b>KMA</b> Mast arm (external fitter)	<b>EHS</b> External house-side shield <sup>13</sup>
<b>KVF 450M<sup>3</sup></b>	<b>R2FL</b> Type II roadway, flat lens <sup>5</sup>		<b>Post-top mounting<sup>10</sup></b>	<b>EHSB</b> External house-side shield black <sup>13</sup>
<b>KVF 750M<sup>3</sup></b>	<b>R3FL</b> Type III asymmetric, flat lens <sup>5</sup>		<b>PT4</b> Post-top, 4" OD open-top pole	<b>QRS</b> Quartz restrrike system (250W max., lamp not included)
<b>KVF 1000M<sup>2,4</sup></b>	<b>Segmented reflector</b>		<b>PT5</b> Post-top, 5" OD open-top pole	<b>QRSTD</b> QRS time delay (250W max., lamp not included)
	<b>SR2FL</b> Type II segmented, roadway, flat lens <sup>5,6,10</sup>		<b>PT6</b> Post-top, 6" OD open-top pole	<b>TLS</b> Tool-less access
	<b>SR3FL</b> Type III segmented, asymmetric, flat lens <sup>5,6,10</sup>		<b>RPF20</b> Round pole fitter (2-3/8" OD tenon)	<b>CR</b> Enhanced corrosion resistance
	<b>SR4SCFL</b> Type IV segmented, forward throw, sharp cutoff, flat lens <sup>5,6,10</sup>		<b>RPF25</b> Round pole fitter (2-7/8" OD tenon)	<b>EA</b> Embossed accents
	<b>SR4WFL</b> Type IV segmented, wide forward throw, sharp cutoff, flat lens <sup>5,6,10</sup>		<b>SPF20</b> Square pole fitter (2-3/8" OD tenon)	<b>CSA</b> CSA Certified
			<b>SPF25</b> Square pole fitter (2-7/8" OD tenon)	<b>NOM</b> NOM Certified (consult factory)

NOTES:

- 1 Must use standard E-25 lamp. Only available with SYMDL, ASYDL and VFADL, n/a 347V.
- 2 Maybe ordered with SCWA.
- 3 Must be ordered with SCWA.
- 4 1000M requires BT37 reduced jacket lamp.
- 5 Not available with 1000S.
- 6 Not available with 450M, 750M or 1000M.
- 7 Consult factory for availability in Canada.
- 8 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 9 Must order SP12 or RP12 when two or more luminaires are oriented on a 900 drilling pattern.
- 10 Segmented reflectors not available with post-top mounting configurations.
- 11 175M, 750M and 1000M available in vertical lamp distributions only.
- 12 For specific ordering information, consult factory.
- 13 Maybe ordered as an accessory.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

EPA:<sup>9</sup> 2.8ft<sup>2</sup> (.25m<sup>2</sup>)  
 Square: 21-1/2(54.6)  
 Height: 17(43.2)  
 Max. weight: 53lbs (24kg)



www.lithonia.com, keyword: **KVF**

For tenon slipfitters, see page 540.



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction  
 Will not meet with DL or EHS options.

## Arm-Mounted Square Cutoff

# KVS

### Intended Use

For lighting shopping center or stadium parking lots.

### Features

**Housing** – Rugged, heavy-gauge, aluminum housing. Square shape, continuously welded seams for weather-tight integrity. EPDM closed-cell housing gasket.

**Finish** – Dark bronze corrosion-resistant polyester powder finish (DDB) standard; other arch colors available.

**Lens** – Impact-resistant flat glass is standard for KVS1, R2, R3 and R4. Convex glass lens is standard with all KVS3 and KVS1 R5.

**Door Frame** – Extruded aluminum hinged door frame. All exposed hardware is stainless steel.

**Mounting** – Extruded 9" (KVS1) and 12" (KVS3) arms with integral splice compartment for wall or pole mounting. Optional mounting available.

**Optics** – One-piece, anodized, hydroformed aluminum reflector. Four cutoff distributions available: R2 (roadway), R3 (asymmetric), R4 (forward throw) and R5 (symmetric). Reflectors hinge out for easy removal during installation/maintenance. R5 is vertically lamped; R2, R3, and R4 are horizontally lamped.

**Electrical** – 150W and below high reactance high power factor ballast. Constant-wattage autotransformer ballasts are copper wound and 100% factory tested. Removable, unitized power module and positive-locking disconnect plugs.

**Socket** – Mogul-base porcelain socket (100M and 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated. (1000S is 5KV pulse rated.)

### Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations.



Example: **KVS1 150S R2 120 SP09 PER LPI**

### Ordering Information

Designation	Distribution				Voltage	Mounting	Options/accessories
<b>High pressure sodium</b>							
KVS1 70S	R2	R3	R4	R5	120	KVS1, shipped separately	<b>Installed</b>
KVS1 100S	R2	R3	R4	R5	208 <sup>4</sup>	SP09 Square pole arm	LPI Lamp included
KVS1 150S	R2	R3	R4	R5	240 <sup>4</sup>	RP09 Round pole arm	L/LP Less lamp
KVS1 250S	R2	R3	R4	R5	277	WB09 Wall bracket	SF Single fuse, 120V, 277V, 347V
KVS3 400S	R2	R3	—	R5	347	KTMB Twin mounting bar (Directly mounts to 2-7/8" OD tenon)	DF Double fuse, 208V, 240V, 480V
KVS3 1000S	—	—	—	R5	480 <sup>4</sup>	KTMB Twin mounting bar (Directly mounts to 2-7/8" OD tenon)	PER NEMA twist-lock receptacle only (no photocontrol)
<b>Metal halide</b>							
KVS1 100M	R2	R3	R4	R5	TB <sup>5</sup>	KVS3, shipped separately	QRS Quartz restrike system (100W max. on KVS1, 250W max. on KVS3; lamp not included)
KVS1 150M <sup>1</sup>	R2	R3	R4	R5		SP12 Square pole arm	CR Enhanced corrosion resistance
KVS1 175M	R2	R3	R4	R5		RP12 Round pole arm	EC Emergency circuit
KVS1 200M <sup>2</sup>	R2	R3	R4	R5		WB12 Wall bracket	MED Medium-base socket (size 1 only)
KVS1 250M <sup>1</sup>	R2	R3	R4	R5		MA Mast arm internal fitter <sup>6</sup>	HS House-side shield (R3, R4, R5 only)
KVS3 320M <sup>2</sup>	R2	R3	—	R5		<b>Optional Mounting</b>	SCWA Super CWA pulse start ballast (n/a HPS or 100M) (175M with R5 only).
KVS3 350M <sup>2</sup>	R2	R3	—	R5		KVS1 & KVS3, shipped separately	CSA CSA Certified
KVS3 400M <sup>1</sup>	R2	R3	—	R5		KMA Mast arm adapter (KVS1 only) <sup>7</sup>	NOM NOM Certified (consult factory)
KVS3 1000M <sup>1,3</sup>	R2	R3	—	R5		DA12P Degree arm (pole) <sup>6</sup>	
						DA12WB Degree arm (wall) <sup>6</sup>	

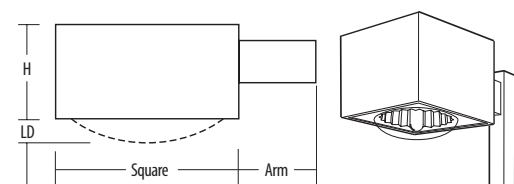
For optional architectural colors, see page 543.  
**Shipped separately**  
**PE1** NEMA twist-lock PE (120-240V)  
**PE3** NEMA twist-lock PE (347V)  
**PE4** NEMA twist-lock PE (480V)  
**PE7** NEMA twist-lock PE (277V)  
**SC** Shorting cap for PER option  
**VG** Vandal guard (n/a KVS3)  
 For tenon slip fitters, see page 540.

### NOTES:

- 1 Maybe ordered with SCWA
- 2 Must be ordered with SCWA.
- 3 Must use BT37 reduced jacket lamp for 1000M, R2 and R3, R5 takes BT56 standard lamp.
- 4 Consult factory for availability in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 227V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Single/twin, 180° configuration.
- 7 For use with 6" minimum 2-3/8" OD pipe.
- 8 Includes mounting arm.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	KVS1	KVS3
EPA: <sup>8</sup>	1.8ft <sup>2</sup> (.17m <sup>2</sup> )	3.9ft <sup>2</sup> (.36m <sup>2</sup> )
Square:	16-3/4(42.0)	24(61.0)
Height:	10-1/2(26.0)	16-1/2(42.0)
Max. weight:	33lbs (15.0kg)	74lbs (34.0kg)



Architectural Square Vertical

# KVE

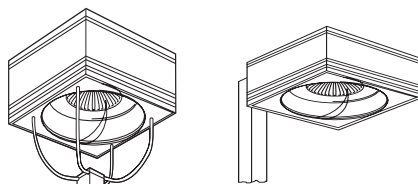


Ordering Information

Designation	Distribution
<b>High pressure sodium</b>	<b>Vertical lamp distribution</b>
<b>KVE2 250S</b>	<b>SYM</b> Symmetric <sup>4,5</sup>
<b>KVE2 400S</b>	<b>SYMC</b> Symmetric (n/a 1000S) <sup>6</sup>
<b>KVE3 400S</b>	<b>ASY</b> Asymmetric <sup>5</sup>
<b>KVE3 1000S</b>	<b>ASYC</b> Asymmetric <sup>6</sup>
<b>Metal halide</b>	<b>Horizontal lamp distribution</b>
<b>KVE2 175M</b>	<b>R2</b> Type II roadway
<b>KVE2 200M<sup>1</sup></b>	<b>R3</b> Type III asymmetric
<b>KVE2 250M<sup>2</sup></b>	<b>R4SC</b> Type IV forward throw, sharp cutoff
<b>KVE2 320M<sup>1,3</sup></b>	<b>R4W</b> Type IV forward throw (1000M only) <sup>3</sup>
<b>KVE2 350M<sup>1,3</sup></b>	<b>R5S</b> Type V symmetric square <sup>3</sup>
<b>KVE2 400M<sup>2,3</sup></b>	
<b>KVE3 400M<sup>2</sup></b>	
<b>KVE3 1000M<sup>2</sup></b>	

NOTES:

- 1 Must be ordered with SCWA.
- 2 May be ordered with SCWA.
- 3 320W, 350W, 400W MH requires ED28 lamp; 1000W MH requires BT37 lamp (n/a KVE3 1000S).
- 4 Meets IES cutoff criteria for 1000W high pressure sodium luminaire.
- 5 Meets IES semi-cutoff criteria with metal halide lamp sources.
- 6 Meets IES cutoff criteria.
- 7 Consult factory for availability in Canada.
- 8 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 9 For KVE2 luminaires, SPV12, RPV12, SPV14 or RPV14 must be used when two or more luminaires oriented on a 90° drilling pattern.
- 10 For KVE3 luminaires, SPV14 or RPV14 must be used when two or more luminaires oriented on a 90° drilling pattern.
- 11 400W maximum.



Intended Use

For streets, parking lots and surrounding areas.

Features

**Housing** – Square-shaped, rugged, heavy-gauge, extruded aluminum housing. Fully gasketed for weather-tight integrity. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Other architectural colors available.

**Lens** – Impact-resistant, clear, 3/16" thick, tempered drop lens.

**Mounting** – Extruded aluminum arm with integral splice compartment for wall or pole mounting is shipped in fixture carton. Optional mountings available.

**Optics** – Segmented, anodized aluminum optics are interchangeable and rotatable. Vertically lamped sealed optics include symmetric, symmetric cutoff, asymmetric and asymmetric cut-

off. Design redirects light around arc-tube for optimum lamp life and maximum efficiency. Five horizontal lamp cutoff distributions available: R2 (roadway), R3 (asymmetric), R4SC (forward throw, sharp cutoff) R4W (wide, forward throw) and R5S (symmetric).

**Electrical** – Constant-wattage autotransformer, high-power factor ballast. Ballast is copper wound and 100% factory tested. Removable power tray and positive locking disconnect plug.

**Socket** – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. US patent no. D417,026.

Example: **KVE2 250S SYM 120 RPV06 SF LPI**

Voltage	Mounting <sup>9</sup>	Options/accessories
<b>120</b>	<b>Included</b>	<b>Installed</b>
<b>208<sup>7</sup></b>	<b>SPV04</b> 4" square pole arm (std.) <sup>9,10</sup>	<b>LPI</b> Lamp included
<b>240<sup>7</sup></b>	<b>SPV06</b> 6" square pole arm <sup>9,10</sup>	<b>L/LP</b> Less lamp
<b>277</b>	<b>SPV09</b> 9" square pole arm <sup>9,10</sup>	<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB)
<b>347</b>	<b>SPV12</b> 12" square pole arm <sup>10</sup>	<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB)
<b>480<sup>7</sup></b>	<b>SPV14</b> 14" square pole arm	<b>PER</b> NEMA twist-lock receptacle only (no photocontrol)
<b>TB<sup>7</sup></b>	<b>RPV04</b> 4" round pole arm <sup>9,10</sup>	<b>QRS</b> Quartz restrrike system (250W max., 120V only, lamp not included)
	<b>RPV06</b> 6" round pole arm <sup>9,10</sup>	<b>GFL</b> Glass flat lens <sup>11</sup>
	<b>RPV09</b> 9" round pole arm <sup>9,10</sup>	<b>CR</b> Enhanced corrosion resistance
	<b>RPV12</b> 12" round pole arm <sup>10</sup>	<b>EC</b> Emergency circuit
	<b>RPV14</b> 14" round pole arm	<b>HS</b> House-side shield (ASY, ASYC only. R2, R3 shipped separately)
	<b>WBV09</b> 9" wall bracket	<b>SCWA</b> Super CWA pulse start ballast (n/a HPS, 175M or 1000M horizontal)
	<b>Shipped separately</b>	<b>LS</b> Lamp support (size 3 horizontal optics only)
	<b>PT4</b> Post-top, 4" OD open-top pole	<b>CSA</b> CSA Certified
	<b>PT45</b> Post-top, 4-1/2" OD open-top pole	<b>NOM</b> NOM Certified (consult factory)
	<b>PT5</b> Post-top, 5" OD open-top pole	For optional architectural colors, see page 543.
	<b>PT6</b> Post-top, 6" OD open-top pole	<b>Shipped separately</b>
	<b>RPF20</b> Round pole fitter (2-3/8" OD tenon)	<b>PE1</b> NEMA twist-lock PE (120-240V)
	<b>RPF25</b> Round pole fitter (2-7/8" OD tenon)	<b>PE3</b> NEMA twist-lock PE (347V)
	<b>SPF20</b> Square pole fitter (2-3/8" OD tenon)	<b>PE4</b> NEMA twist-lock PE (480V)
	<b>SPF25</b> Square pole fitter (2-7/8" OD tenon)	<b>PE7</b> NEMA twist-lock PE (277V)
		<b>SC</b> Shorting cap for PER option

Dimensions are shown in inches (centimeters) unless otherwise noted.

KVE2 (arm)	KVE2 (post)	KVE3 (arm)	KVE3 (post)
EPA: 3.3ft <sup>2</sup> (.31m <sup>2</sup> )	3.4ft <sup>2</sup> (.32m <sup>2</sup> )	4.2ft <sup>2</sup> (.39m <sup>2</sup> )	4.5ft <sup>2</sup> (.42m <sup>2</sup> )
Square: 25(63.5)	25(63.5)	29(73.7)	29(73.7)
Height: 16-3/4(42.5)	23-7/8(60.6)	18-1/2(47.0)	18-1/2(47.0)
Max. weight: 77 lbs (34.9 kg)	87 lbs (39.5 kg)	87 lbs (39.5 kg)	97 lbs (44.0 kg)



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction  
Requires glass flat lens (GFL) option.

# KVR



Example: **KVR2 250S SYMDL 120 RPD06 SF LPI**

### Intended Use

For streets, parking lots and surrounding areas.

### Features

**Housing** – Cylindrically shaped, rugged, heavy-gauge, spun aluminum housing. Fully gasketed for weathertight integrity. Standard finish is dark bronze (DDB) polyester powder. Other architectural colors available. KVR2 standard door frame is natural aluminum (DNA). Door frame can be painted to match housing color (see DFP option below).

**Lens** – Impact-resistant, clear, 3/16" thick, tempered drop lens.

**Mounting** – Extruded-aluminum arm with integral splice compartment for wall or pole mounting is shipped in fixture carton. Optional mountings available.

**Optics** – KVR2 vertical-lamp reflectors are one piece spun and formed around anodized aluminum. KVR2 horizontal-lamp hydroformed and segmented reflectors also available. KVR2 reflectors are rotatable and interchangeable. KVR3 segmented, anodized aluminum optics also are rotatable and interchangeable.

**Electrical** – Constant-wattage autotransformer, high-power factor ballast. Ballast is copper wound and 100% factory tested. Super CWA pulse start ballasts required for 320M and 350M (must order SCWA option).

**Socket** – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V.

### Listings

UL Listed (standard). CSA Certified (see Options).  
UL Listed for wet locations.

### Ordering Information

Designation	Distribution	Voltage	Mounting	Options/accessories
<b>High pressure sodium</b>	<b>KVR2 vertical lamp distribution</b>	<b>120</b>	<b>KVR2 arm mounting</b>	<b>Installed</b>
<b>KVR2 250S</b>	<b>SYMDL</b> Symmetric square, drop lens, semi-cutoff <sup>3</sup>	<b>208<sup>6</sup></b>	<b>SPD04</b> 4" Square pole arm <sup>8</sup>	<b>LPI</b> Lamp included
<b>KVR2 400S</b>	<b>ASYDL</b> Asymmetric, drop lens, semi-cutoff <sup>3</sup>	<b>240<sup>6</sup></b>	<b>RPD04</b> 4" Round pole arm <sup>8</sup>	<b>L/LP</b> Less lamp
<b>KVR3 400S</b>	<b>SYMFL</b> Symmetric square, flat lens, full-cutoff <sup>3</sup>	<b>277</b>	<b>SPD06</b> 6" Square pole arm <sup>8</sup>	<b>PER</b> NEMA twist-lock receptacle only (photocontrol not included)
<b>KVR3 1000S</b>	<b>ASYFL</b> Asymmetric, flat lens, full-cutoff <sup>3</sup>	<b>347</b>	<b>RPD06</b> 6" Round pole arm <sup>8</sup>	<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB)
<b>Metal halide</b>	<b>VFADL</b> Vertical forward throw, automotive, drop lens, semi-cutoff <sup>3</sup>	<b>480<sup>6</sup></b>	<b>SPD09</b> 9" Square pole arm <sup>8</sup>	<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB)
<b>KVR2 175M<sup>1</sup></b>	<b>VFAFL</b> Vertical forward throw, automotive, flat lens, full-cutoff <sup>3</sup>	<b>TB<sup>7</sup></b>	<b>RPD09</b> 9" Round pole arm <sup>8</sup>	<b>EC</b> Emergency circuit (250W max., lamp not included)
<b>KVR2 200M<sup>2</sup></b>	<b>KVR2 horizontal lamp distribution</b>		<b>SPD12</b> 12" Square pole arm	<b>HS</b> House-side shield (ASY, ASYC only. R2, R3 shipped separately) <sup>4</sup>
<b>KVR2 250M<sup>1</sup></b>	<b>R2DL</b> Type II roadway, drop lens <sup>3</sup>		<b>RPD12</b> 12" Round pole arm	<b>LS</b> Lamp support (size 3 horizontal optics only)
<b>KVR2 320M<sup>2</sup></b>	<b>R3DL</b> Type III asymmetric, drop lens <sup>3</sup>		<b>WBD12</b> 12" Wall bracket	<b>SCWA</b> Super CWA pulse start ballast (n/a HPS) <sup>10</sup>
<b>KVR2 350M<sup>2</sup></b>	<b>R2FL</b> Type II roadway, flat lens <sup>3</sup>		<b>KMA</b> Mast arm (external fitter)	<b>KW1</b> KiloWatch 120V control relay <sup>3,13</sup>
<b>KVR2 400M<sup>1</sup></b>	<b>R3FL</b> Type III asymmetric, flat lens <sup>3</sup>		<b>KVR3 arm mounting</b>	<b>KW4</b> KiloWatch 277V control relay <sup>3,13</sup>
<b>KVR3 400M</b>	<b>KVR2 segmented reflector</b>		<b>SPVD04</b> 4" Square pole arm <sup>9</sup>	<b>EHS</b> External house-side shield <sup>3,11</sup>
<b>KVR3 1000M<sup>1</sup></b>	<b>SR2FL</b> Type II segmented, roadway, flat lens <sup>3</sup>		<b>RPVD04</b> 4" Round pole arm <sup>9</sup>	<b>EHSB</b> External house-side shield black <sup>3,11</sup>
	<b>SR3FL</b> Type III segmented, asymmetric, flat lens <sup>3</sup>		<b>SPVD06</b> 6" Square pole arm <sup>9</sup>	<b>QRS</b> Quartz restrike system (250W max., lamp not included)
	<b>SR4SCFL</b> Type IV segmented, forward throw, sharp cutoff, flat lens <sup>3</sup>		<b>SPVD09</b> 9" Square pole arm <sup>9</sup>	<b>GFL</b> Glass flat lens <sup>4,14</sup>
	<b>SR4WFL</b> Type IV segmented, wide forward throw, flat lens <sup>3</sup>		<b>RPVD09</b> 9" Round pole arm <sup>9</sup>	<b>QRSTD</b> QRS time delay (250W max., lamp not included) <sup>3</sup>
	<b>KVR3 vertical lamp distribution</b>		<b>SPVD12</b> 12" Square pole arm <sup>9</sup>	<b>TLS</b> Tool-less access <sup>3</sup>
	<b>SYM</b> Symmetric, drop lens, semi-cutoff <sup>4,5</sup>		<b>RPVD12</b> 12" Round pole arm <sup>9</sup>	<b>DFP</b> Door frame painted to match housing <sup>15</sup>
	<b>SYMC</b> Symmetric, drop lens, cutoff (n/a 1000S) <sup>4</sup>		<b>SPVD14</b> 14" Square pole arm	<b>CR</b> Enhanced corrosion resistance
	<b>ASY</b> Asymmetric, drop lens, semi-cutoff <sup>4</sup>		<b>RPVD14</b> 14" Round pole arm	<b>CSA</b> CSA Certified
	<b>ASYC</b> Asymmetric, drop lens, cutoff <sup>4</sup>		<b>WBVD09</b> 9" Wall bracket	<b>NOM</b> NOM Certified (consult factory)
	<b>KVR3 horizontal lamp distribution</b>		<b>KVR2 &amp; KVR3 post-top mounting</b>	<b>Shipped separately</b>
	<b>R2</b> Type II roadway, drop lens (n/a 1000S) <sup>4,12</sup>		<b>PT4</b> Post top, 4" OD open-top pole	<b>PE1</b> NEMA twist-lock PE (120V-240V)
	<b>R3</b> Type III asymmetric, drop lens (n/a 1000S) <sup>4,12</sup>		<b>PT45</b> Post top, 4-1/2" OD open-top pole	<b>PE3</b> NEMA twist-lock PE (347V)
	<b>R4SC</b> Type IV, forward throw, sharp cutoff, drop lens (n/a 1000S) <sup>4,12</sup>		<b>PT5</b> Post top, 5" OD open-top pole	<b>PE4</b> NEMA twist-lock PE (480V)
	<b>R4W</b> Type IV, wide forward throw, drop lens (n/a 1000S) <sup>4,12</sup>		<b>PT6</b> Post top, 6" OD open-top pole	<b>PE7</b> NEMA twist-lock PE (277V)
	<b>R5S</b> Type V symmetric square drop lens (n/a 1000S) <sup>4,12</sup>		<b>RPF20</b> Round pole fitter (2-3/8" OD tenon)	<b>SC</b> Shorting cap for PER option
			<b>RPF25</b> Round pole fitter (2-7/8" OD tenon)	<b>KVR2VG</b> Vandal guard
			<b>SPF20</b> Square pole fitter (2-3/8" OD tenon)	For tenon slipfitters, see pages 540.
			<b>SPF25</b> Square pole fitter (2-7/8" OD tenon)	

**NOTES:**

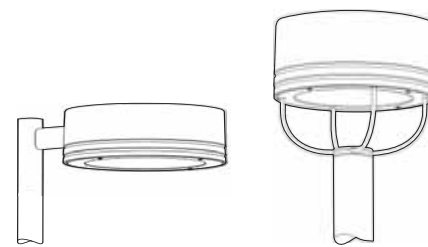
- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA.
- 3 Not available with KVR3.
- 4 Not available with KVR2.
- 5 Meets IES cutoff criteria for 1000W high pressure sodium luminaire.
- 6 Consult factory for availability in Canada.
- 7 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 8 Must order SPD12 or RPD12 when two or more luminaires are oriented on a 90° drilling pattern.
- 9 Must order SPVD14 or RPVD14 when two or more luminaires are oriented on a 90° drilling pattern.
- 10 175M and 1000M available in vertical lamp distributions only.
- 11 May be ordered as an accessory.
- 12 Must use BT37 lamp.
- 13 For specific ordering information, consult factory.
- 14 400W maximum.
- 15 Door frame is standard DNA (natural aluminum).



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction  
Requires glass flat lens (GFL) option.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	<b>KVR2 (arm)</b>	<b>KVR2 (post)</b>	<b>KVR3 (arm)</b>	<b>KVR3 (post)</b>
EPA:	1.6ft <sup>2</sup> (.15m <sup>2</sup> )	1.7ft <sup>2</sup> (.16m <sup>2</sup> )	2.0ft <sup>2</sup> (.19m <sup>2</sup> )	2.2ft <sup>2</sup> (.20m <sup>2</sup> )
Diameter:	25(63.5)	25(63.5)	29(73.7)	29(73.7)
Height:	17(43.1)	23-7/8(60.6)	18-1/2(47.0)	29-3/16(74.1)
Max. weight:	56 lbs (25 kg)	60 lbs (27.0 kg)	70 lbs (31.8 kg)	80 lbs (36.3 kg)



Arm-Mounted Centrifform Cutoff

# KAR



**Intended Use**

For parking lots, plazas or entrances.

**Features**

**Housing** – Rugged, heavy-gauge, spun-aluminum housing in centrifform shape. Dark bronze polyester corrosion-resistant powder finish (DDB) standard; other architectural colors available.

**Door Frame** – Aluminum door frame standard with 1/8" impact-resistant, tempered-glass lens. Stainless steel external hardware. One-piece EPT closed-cell gasket.

**Mounting** – Contoured, extruded-aluminum 9" (KAR1/KAR2) and 12" (KAR3) arms with integral splice compartment for pole or wall mounting. Optional mountings available.

**Optics** – Anodized, hydroformed aluminum reflectors. Four cutoff distributions available: R2 (roadway), R3 (asymmetric), R4 (forward throw)

and R55 (symmetric). R4 reflector is field-rotatable. Reflectors hinge out for easy installation and maintenance.

**Electrical** – 150S, 100-150M high reactance, high-power factor ballast. Constant-wattage autotransformer ballast, copper wound and 100% factory tested. Removable power door and positive-locking disconnect plugs.

**Socket** – Horizontally oriented mogul-base porcelain socket (100M and 150M are medium-base) with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated. (1000S is 5KV pulse rated)

**Listings**

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.

**Ordering Information**

Example: **KAR3 1000S R4 120 RPD12 LPI**

Designation	Distribution	Voltage	Mounting	Options/accessories
<u>High pressure sodium</u>	<b>R2</b> Type II roadway (n/a 1000 watt)	<b>120</b>	<u>KAR1/KAR2, shipped separately</u>	<u>Installed</u>
<b>KAR1 150S</b>	<b>R3</b> Type III asymmetric	<b>208<sup>3</sup></b>	<b>SPD09</b> 9" square pole arm	<b>LPI</b> Lamp included
<b>KAR2 250S</b>	<b>R4</b> Type IV forward throw (n/a size 1)	<b>240<sup>3</sup></b>	<b>RPD09</b> 9" round pole arm	<b>L/LP</b> Less lamp
<b>KAR2 400S</b>	<b>R55</b> Type V symmetric square (n/a size 1)	<b>277</b>	<b>WBD09</b> 9" wall bracket	<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB)
<b>KAR3 1000S</b>		<b>347</b>	<u>KAR3, shipped separately</u>	<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB)
<u>Metal halide</u>		<b>480<sup>3</sup></b>	<b>SPD12</b> 12" square pole arm	<b>PER</b> NEMA twist-lock receptacle only (no photocontrol)
<b>KAR1 100M</b>		<b>TB<sup>4</sup></b>	<b>RPD12</b> 12" round pole arm	<b>QRS</b> Quartz restrrike system (250W max., 120V lamp not included)
<b>KAR1 150M<sup>1</sup></b>			<b>WBD12</b> 12" wall bracket	<b>CR</b> Enhanced corrosion resistance
<b>KAR1 175M</b>			<u>Shipped separately</u>	<b>EC</b> Emergency circuit
<b>KAR1 200M<sup>2</sup></b>			<b>KMA</b> Mast arm adapter	<b>HS</b> House-side shield (R3, R4 only)
<b>KAR1 250M<sup>1</sup></b>			<b>KTMB</b> Twin mounting bar	<b>SCWA</b> Super CWA pulse start ballast (n/a HPS, 100M, 175M)
<b>KAR2 320M<sup>2</sup></b>			<b>DAD12P</b> Degree arm (pole)	<b>CSA</b> CSA Certified
<b>KAR2 350M<sup>2</sup></b>			<b>DAD12WB</b> Degree arm (wall)	
<b>KAR2 400M<sup>1</sup></b>				
<b>KAR2 400M<sup>1</sup></b>				
<b>KAR3 1000M<sup>1</sup></b>				

For optional architectural colors, see page 543.

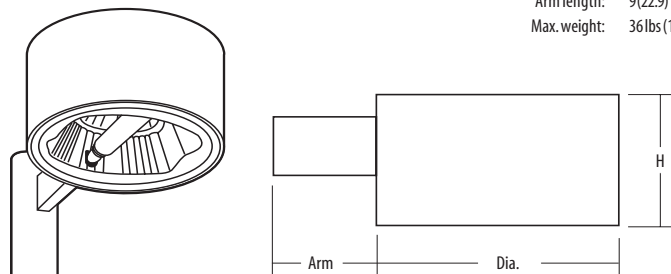
Shipped separately

- PE1** NEMA twist-lock PE (120V-240V)<sup>5</sup>
- PE3** NEMA twist-lock PE (347V)<sup>5</sup>
- PE4** NEMA twist-lock PE (480V)<sup>5</sup>
- PE7** NEMA twist-lock PE (277V)<sup>5</sup>
- SC** Shorting cap for PER option
- VG** Vandal guard (KAR1/2 below 400W )

Fortenon slipfitters, see page 540.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	<u>KAR1</u>	<u>KAR2</u>	<u>KAR3</u>
EPA: <sup>6</sup>	1.2ft <sup>2</sup> (.11m <sup>2</sup> )	1.5ft <sup>2</sup> (.14m <sup>2</sup> )	2.2ft <sup>2</sup> (.20m <sup>2</sup> )
Diameter:	19-1/2(49.5)	21-1/2(54.6)	30(75.6)
Height:	7-1/4(18.4)	8-5/16(21.1)	10-1/2(26.7)
Arm length:	9(22.9)	9(22.9)	12(30.5)
Max. weight:	36lbs (15.0kg)	45lbs (20.0kg)	53lbs (24.0kg)



**NOTES:**

- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA.
- 3 Consult factory for availability in Canada.
- 4 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 5 PER must be ordered with fixture.
- 6 Includes mounting arm.

Intended Use

For walkways, plazas or pedestrian areas.

Features

Housing – Rugged, heavy-gauge, formed-aluminum housing. EPDM one-piece, closed-cell gasket. Dark bronze corrosion-resistant polyester powder finish (DDB) standard; other architectural colors available.

Door Frame – Permanent-mold, cast-aluminum door frame with positive hold-open device. Stainless steel external hardware.

Enclosure – Thermoformed clear acrylic, 0.125" minimum wall thickness. Lens gaskets are EPDM one-piece closed-cell.

Mounting – Internal expansion sleeve pole-fitter with integral splice compartment. Clean transition to pole via 1/4" transition plate. No external hardware. **KKS fixture mounts to 4" square, open-top pole. KKR fixture mounts to 4-1/2" round, open top pole.** Other pole sizes require

tenon and tenon slipfitter.

Optics – One-piece, hydroformed, anodized-aluminum reflectors. Four cutoff distributions available: R3 (asymmetric), R4 (forward throw), R5 (symmetric, vertical) and R5S (square). Field-interchangeable reflectors hinge out for easy maintenance.

Electrical – 70-150S high reactance, high-power factor ballast. Constant-wattage autotransformer ballasts are copper wound and 100% factory tested. Removable, unitized power door and positive-locking disconnect plugs (primary and secondary).

Socket – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations.

**KKS**  
**KKR**



Example: **KKS 70S R3 120 QRS LPI**

Ordering Information

Series	Wattage	Distribution	Voltage	Optional mounting <sup>6</sup>
<b>KKS</b>	<u>High pressure sodium</u>	<b>R3</b>	<b>120</b>	<u>Shipped separately</u>
<b>KKR</b>	<b>70S</b>	<b>R4<sup>3</sup></b>	<b>208<sup>4</sup></b>	<b>SM</b> Side-mounting assembly (one per luminaire)
	<b>100S</b>	<b>R5<sup>3</sup></b>	<b>240<sup>4</sup></b>	<b>WM</b> Wall-mounting assembly
	<b>150S</b>	<b>R5S</b>	<b>277</b>	<b>T20</b> Tenon slipfitter (for 2" pipe tenon, 2-3/8" OD)
	<b>250S</b>		<b>347</b>	<b>T25</b> Tenon slipfitter (for 2-1/2" pipe tenon, 2-7/8" OD) <sup>7</sup>
	<b>400S</b>		<b>480<sup>4</sup></b>	
	<u>Metal halide</u>		<b>TB<sup>5</sup></b>	
	<b>150M<sup>1</sup></b>			
	<b>175M</b>			
	<b>200M<sup>2</sup></b>			
	<b>250M<sup>1</sup></b>			
	<b>320M<sup>2</sup></b>			
	<b>350M<sup>2</sup></b>			
	<b>400M<sup>1</sup></b>			

Options/accessories

- Installed
- LPI** Lamp included
  - L/LP** Less lamp
  - SF** Single fuse, 120V, 277V, 347V (n/a TB)
  - DF** Double fuse, 208V, 240V, 480V (n/a TB)
  - PER** NEMA twist-lock receptacle only (no photocontrol)
  - QRS** Quartz restrrike system (250W max., 120V lamp not included)
  - CR** Enhanced corrosion resistance
  - EC** Emergency circuit
  - PC** Polycarbonate lens
  - HS** House-side shield (R3 and R4 only)
  - SCWA** Super CWA pulse start ballast (n/a HPS or 175M).
  - CSA** CSA Certified
  - NOM** NOM Certified (consult factory)
- For optional architectural colors, see page 543.

- Shipped separately
- PE1** NEMA twist-lock PE (120V-240V)
  - PE3** NEMA twist-lock PE (347V)
  - PE4** NEMA twist-lock PE (480V)
  - PE7** NEMA twist-lock PE (277V)
  - SC** Shorting cap for PER option

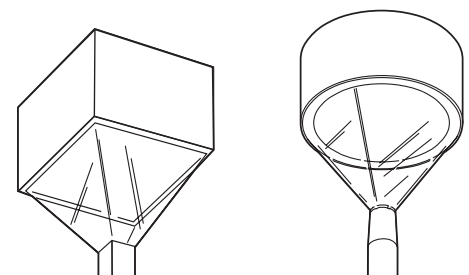
For tenon slipfitters, see page 540.

NOTES:

- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA.
- 3 Requires ED28 reduced jacket lamp.
- 4 Consult factory for availability in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 When ordering separately, order as KK\_SM, KK\_WM or KK\_T20 or KKRT25.
- 7 KKR only.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	<u>KKS</u>	<u>KKR</u>
EPA:	2.5 ft <sup>2</sup> (.23 m <sup>2</sup> )	1.6 ft <sup>2</sup> (.15 m <sup>2</sup> )
Square:	20-1/4 (51.4)	N/A
Diameter:	N/A	22-1/4 (56.5)
Housing height:	11-3/4 (29.9)	11 (27.9)
Overall height:	20-3/4 (52.7)	20-1/2 (52.1)
Max. weight:	54 lbs (24.4 kg)	45 lbs (20.0 kg)





Decorative Post-Tops

# TPA



**Intended Use**

Residential streets, office complexes, campuses, parks, shopping areas, condominiums and hotels.

**Features**

Construction – Die-cast aluminum housing and spun aluminum hood coated with polyester powder paint for long-lasting, dependable service. Multi-gasketing system provides weather-proof protection of the optical assembly with hinged hood and captive screw latch promoting case maintenance. Standard finish is grey (DGYG).

Optical System – Prismatic refractors deliver IES roadway distribution types II, III or V. Refractors are available in acrylic, polycarbonate and tempered glass.

Electrical – Reactor, normal power factor ballast (150-watt HPS and below), lag high power factor ballast (250-watt HPS and above) or constant wattage autotransformer (MH and MV) is standard. Other ballasts are available.

Installation – Cone mounting filter with three unobtrusive set screws fastens fixture securely to round poles or tenons sized from 2-3/8" to 3" OD.

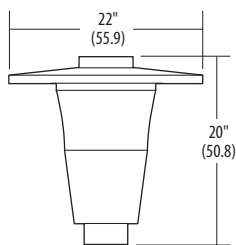
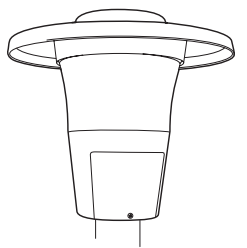
**Listings**

Standard product is NOT Listed by UL, CSA or NOM. Complies to ANSI: C136.2, C136.10, C136.15, C136.16.

Ordering Information

Example: **TPA 100S R2A 120 LPI**

Series	Wattage	Distribution	Voltage	Ballast options <sup>7</sup>	Options
<b>TPA</b>	<b>35S<sup>1</sup></b>	<b>R2A</b> Type II roadway, acrylic lens	<b>120</b>	(blank) Standard ballast (see above)	<u>Installed</u>
	<b>50S<sup>1</sup></b>	<b>R3A</b> Type III asymmetric, acrylic lens	<b>208</b>	<b>RHP</b> Reactor high power factor <sup>8</sup>	<b>LPI</b> Lamp included
	<b>70S</b>	<b>R5A</b> Type V symmetric, acrylic lens	<b>220</b>	<b>RNP</b> Reactor normal power factor <sup>8</sup>	<b>L/LP</b> Less lamp
	<b>100S</b>	<b>R2P</b> Type II roadway, polycarbonate lens	<b>240</b>	<b>50HZ</b> 50 hertz (consult factory)	<b>SF</b> Single fuse (120V, 277V 340V only)
	<b>150S</b>	<b>R3P</b> Type III asymmetric, polycarbonate lens	<b>277</b>	<b>XHP</b> High reactance (lag), high power factor <sup>8</sup>	<b>DF</b> Double fuse (208V, 220V, 240V, 480V only)
	<b>250S</b>	<b>R5P</b> Type V symmetric, polycarbonate lens	<b>347</b>	<b>XNP</b> High reactance (lag), normal power factor <sup>8</sup>	<b>PER</b> NEMA twist-lock receptacle only (photocontrol not included).
	<b>400S<sup>2</sup></b>	<b>R2G</b> Type II roadway, glass lens	<b>480</b>	<b>CWA</b> Constant wattage autotransformer	<b>PEU</b> NEMA twist-lock PE <sup>9</sup>
	<b>175M</b>	<b>R3G</b> Type III asymmetric, glass lens	<b>TB<sup>3</sup></b>	<b>CWI</b> CWI ballast	<b>SDH</b> Style D hood
	<b>250M</b>	<b>R5G</b> Type V symmetric, glass lens	<b>TB<sup>3</sup></b>	<b>MRB</b> Mag reg ballast	<b>OPS</b> Open plug-in starter <sup>8</sup>
	<b>400M<sup>2</sup></b>		<b>TB<sup>3</sup></b>		<b>ENP</b> Encapsulated plug-in starter <sup>8</sup>
	<b>175MV</b>			<b>120/240<sup>4</sup></b>	<b>NML</b> NEMA label
	<b>250MV</b>			<b>240/120</b>	<b>HSS</b> Stainless steel external hardware
	<b>400MV<sup>2</sup></b>			<b>240/480<sup>5</sup></b>	
				<b>480/240<sup>6</sup></b>	



All dimensions are inches (centimeters) unless otherwise noted. Dimensions do not include mounting arm.

EPA: 1.3ft<sup>2</sup> (0.12m<sup>2</sup>)  
 Height: 20(50.8)  
 Outside diameter: 22(55.9)  
 Weight: 41 lbs (18.6kg)

NOTES:

- 1 Only available with 120V.
- 2 Not available with acrylic or polycarbonate lens; must order with either R2G, R3G or R5G.
- 3 Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277 volt. Others are; 1=120V; 2=208V; and 3=240V.
- 4 Prewired to 120 volt.
- 5 Prewired to 240 volt.
- 6 Prewired to 480 volt.
- 7 Not all ballast options are available with wattages/sources/voltages. Consult factory.
- 8 HPS only.
- 9 Must be ordered with PER.

Decorative Post-Tops

**TCL**

**Intended Use**

Residential streets, office and retail complexes, campuses, parks, condominiums and hotels.

**Features**

Construction – Die-cast aluminum housing provides long life, strength and dependable service. Durable polyester powder paint provides long-lasting standard black finish. Integral die-cast hinged top for easy lamping and maintenance, with captive screw latch promoting case maintenance. NEMA twistlock photocell is unobtrusively integrated into top cap detail.

Optical System – Reflector/refractor systems deliver IES roadway types II, III or V. Refractor panels are available in either acrylic or polycarbonate.

Electrical – Reactor, normal power factor ballast

is standard for HPS units (high power factor available). Constant wattage autotransformer (high power factor) is standard for MH and MV units.

Installation – Unit mounts quickly and easily to 2-3/8" OD to 3" OD poles or tenons. Set screws anchor the fixture firmly.

**Listings**

Standard product is NOT Listed by UL, CSA or NOM. For UL and CSA (see Options). Complies to ANSI: C136.2, C136.10, C136.15, C136.16.



Example: **TCL 100S R2A 120 LPI**

**Ordering Information**

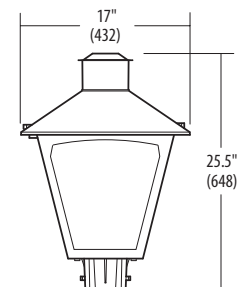
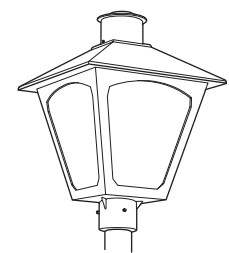
Series	Wattage	Distribution	Voltage	Ballast options <sup>9</sup>	Options
<b>TCL</b>	<b>35S<sup>1</sup></b>	<b>R2A</b> Type II roadway, acrylic lens	<b>120</b>	(blank) Standard ballast (see above)	<b>Installed</b>
	<b>50S<sup>1</sup></b>	<b>R3A</b> Type III asymmetric, acrylic lens	<b>208</b>	<b>RHP</b> Reactor high power factor <sup>6</sup>	<b>LPI</b> Lamp included
	<b>70S</b>	<b>R5A</b> Type V symmetric, acrylic lens	<b>220</b>	<b>RNP</b> Reactor normal power factor <sup>6</sup>	<b>L/LP</b> Less lamp
	<b>100S</b>	<b>R5CA</b> Type V symmetric, clear acrylic lens	<b>240</b>	<b>50HZ</b> 50 hertz (consult factory)	<b>SF</b> Single fuse (120V, 277V, 347V only)
	<b>150S</b>	<b>R2P</b> Type II roadway, polycarbonate lens	<b>277</b>	<b>XHP</b> High reactance, high power factor <sup>6</sup>	<b>DF</b> Double fuse (208V, 220V, 240V, 480V only)
	<b>175M</b>	<b>R3P</b> Type III asymmetric, polycarbonate lens	<b>347</b>	<b>XNP</b> High reactance (lag), normal power factor <sup>6</sup>	<b>PER</b> NEMA twist-lock receptacle only (photocontrol not included).
	<b>175MV</b>	<b>R5P</b> Type V symmetric, polycarbonate lens	<b>480</b>	<b>CWA</b> Constant wattage autotransformer	<b>PEU</b> NEMA twist-lock PE <sup>10</sup>
		<b>R5CP</b> Type V symmetric, clear polycarbonate lens	<b>TB<sup>2</sup></b>	<b>CWI</b> CWI ballast	<b>OPS</b> Open plug-in starter <sup>6</sup>
		<b>R2</b> Type II roadway <sup>6,8</sup>	<b>TB1<sup>2</sup></b>	<b>MRB</b> Mag reg ballast	<b>ENP</b> Encapsulated plug-in starter <sup>6</sup>
			<b>TB2<sup>2</sup></b>		<b>NML</b> NEMA label
		<b>TB3<sup>2</sup></b>		<b>HS</b> House side shield	
		<b>120/240<sup>3</sup></b>		<b>TLS</b> Tool-less entry	
		<b>240/480<sup>4</sup></b>		<b>HSS</b> Stainless steel external hardware	
		<b>240/480<sup>4</sup></b>		<b>FC</b> Full cutoff <sup>6,7</sup>	
		<b>480/240<sup>5</sup></b>		<b>UL</b> UL Listed	
				<b>CSA</b> CSA Certified	

NOTES:

- 1 Only available with 120V.
- 2 Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277 volt. Others are; 1=120V; 2=208V; and 3=240V.
- 3 Prewired to 120V.
- 4 Prewired to 240V.
- 5 Prewired to 480V.
- 6 HPS only.
- 7 Available with R2 distribution, 120V, RNP ballast only.
- 8 Available with FC option only.
- 9 Not all ballast options are available with all wattages/sources/voltages. Consult factory.
- 10 Must be ordered with PER.

Dimensions are shown in **inches (centimeters)** unless otherwise noted. Dimensions do not include mounting arm.

EPA: 1.6ft<sup>2</sup> (0.15m<sup>2</sup>)  
 Height (B): 25-5/8 (57.5)  
 Width: 16-1/4 (41.3)  
 Weight: 36lbs (12.7kg)



## Low Pressure Sodium

## KT1



## Intended Use

For parking lots, walkways, building facades, industrial sites and entrances. Designated for intrinsically dark areas, such as those surround observatories and sea turtle habitats.

## Features

Housing – Heavy-gauge aluminum housing, rectangular shape, continuously welded seams for weather-tight integrity. Dark bronze polyester powder finish (DDB) standard, other architectural colors available.

Door frame – Natural, anodized, extruded aluminum frame with mitered corners, retained with two hinge pins and secure with one, quarter turn quick release fastener. Integrally designed, extruded silicone gasket provides weather-proof seal between housing and frame.

Lens – Clear glass lens standard, polycarbonate lens available.

Electrical – High-reactance autotransformer, copper wound and 100% factory tested standard.

## Listings

UL Listed (standard). CSA Certified (see Options). Suitable for wet locations.

## Ordering Information

Example: **KT1 90L 120 SP04 PER LPI**

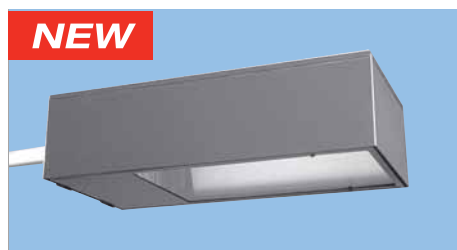
Series	Wattage	Voltage	Mounting	Options/accessories
<b>KT1</b>	<b>35L</b>	<b>120</b>	<u>Included</u>	<u>Installed</u>
	<b>55L</b>	<b>208<sup>2</sup></b>	<b>SP04</b> 4" square pole arm (std) <sup>4</sup>	<b>LPI</b> Lamp included
	<b>90L</b>	<b>240<sup>2</sup></b>	<b>SP06</b> 6" square pole arm	<b>LPIC</b> Lamp included (deluxe/coated)
		<b>277</b>	<b>RP04</b> 4" round pole arm <sup>4</sup>	<b>L/LP</b> Less lamp
	<b>480<sup>2,3</sup></b>	<b>RP06</b> 6" round pole arm	<b>PER</b> NEMA twist-lock receptacle only (photocontrol not included)	
		<b>WB04</b> 4" wall bracket	<b>PC</b> Polycarbonate lens	
		<b>WB06</b> 6" wall bracket	<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB)	
		<u>Shipped separately</u>	<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB)	
		<b>KMA</b> Mast arm adapter	<b>CR</b> Corrosion-resistant finish	
		<b>KTMB</b> Twin mounting bar	<b>CSA</b> CSA Certified	
			<b>DGYG</b> Gray finish	
			<b>DBL</b> Black finish	
			<b>DWH</b> White finish	
			<u>Shipped separately</u>	
			<b>PE1</b> NEMA twist-lock PE (120V-240V)	
			<b>PE3</b> NEMA twist-lock PE (347V)	
			<b>PE4</b> NEMA twist-lock PE (480V)	
			<b>PE7</b> NEMA twist-lock PE (277V)	
			<b>SC</b> Shorting cap for PER option	

## NOTES:

- 1 Consult factory for availability in Canada
- 2 Reactor ballast
- 3 SP06, RP06, WW06 must be used when two or more luminaires are oriented on a 90° drilling pattern. Consult specification sheet for dimensional data.

## Arm Mounted Cutoff Low Pressure Sodium

## KML



## Intended Use

For parking lots, walkways, building facades, industrial sites and entrances. Designated for intrinsically dark areas, such as those surround observatories and sea turtle habitats.

## Features

Housing – Three durable formed housings available depending upon lamp wattage. Dark bronze polyester powder finish (DDB), other architectural colors available. Standard KML does NOT ship with an arm. It is designed for mounting on a 1-1/2" to 2" OD mast arm. If you have other

mounting desires, you must order arms and/or tenons separately. Consult factory.

Door frame – Hinged captive frame secured by captive screws for ease of maintenance. Full perimeter silicon sponge gasket.

Lens – Clear glass lens standard, polycarbonate lens available.

Electrical – Choice of a reactor high power factor or lag high power factor ballast.

## Listings

Standard Product is NOT Listed by UL or CSA.

## Ordering Information

Example: **KML 135L 120 RHP PER PEU LPI**

Designation	Voltage	Ballast options	Options/accessories
<b>KML 55L</b>	<b>120</b>	<b>RHP</b> Reactor high power factor	<u>Installed</u>
<b>KML 90L</b>	<b>208</b>	<b>XHP</b> High reactance (lag) high power factor	<b>LPI</b> Lamp included
<b>KML 135L</b>	<b>240</b>		<b>LPIC</b> Lamp included (deluxe/coated)
<b>KML 180L</b>	<b>277</b>		<b>L/LP</b> Less lamp
			<b>PER</b> NEMA twist-lock receptacle only (photocontrol not included)
			<b>PEU</b> NEMA twist-lock PE
			<b>PC</b> Polycarbonate lens
			<b>NML</b> NEMA label
			<b>DGYG</b> Gray finish
			<b>DBL</b> Black finish
			<b>DWH</b> White finish
			<u>Shipped separately<sup>3</sup></u>
			<b>SC</b> Shorting cap for PER option

## NOTES:

- 1 Optional multi-tap ballast (120, 208, 240, 277). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.
- 2 Not Available with RHP
- 3 Standard KML does NOT ship with an arm. It is designed for mounting on a 1-1/2" to 2" mast arm. If you have other mounting desires, you must order arms and/or tenons separately. Consult factory. Consult specification sheet for dimensional data.

# KRP KRX KP2

### Intended Use

Roadway Lighting around intrinsically dark areas, such as those surrounding observatories and sea turtle habitats.

### Features

Housing – *KRP* and *KP2* are constructed of non-corrosive ABS plastic with UV-inhibiting coating. Gray (DGYG) standard finish. *KRX* utilizes a vandal-resistant, rugged and corrosive-resistant die-cast aluminum housing. Standard finish is “unfinished” aluminum.

Lens – Choice of drop acrylic prismatic refractor or drop polycarbonate prismatic refractor.

Electrical – Choice of a reactor high power factor or lag high power factor ballast.

Installation – *KRP* and *KP2* fixtures accept 1.5-2" OD mast arm. Mounting end must have a 6.75" straight section (min.). *KRX* accepts 1.625-2.375" ODA tenon. Mounting end of tenon must have a 4.5" straight section (min.).

### Listings

Standard product is NOT Listed by UL or CSA.



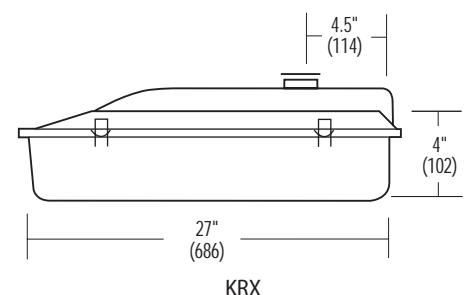
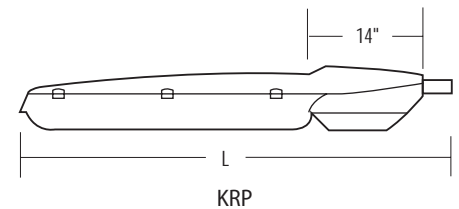
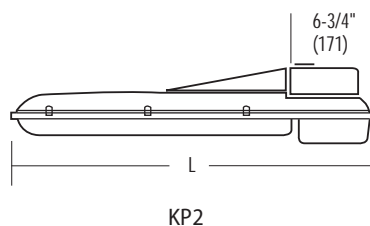
### Ordering Information

Example: **KRP 90L R4 DLA 120 XHP PER LPI**

Series	Wattage	Distribution	Lens	Voltage	Ballast	Options/accessories
KRP	Low pressure sodium	R4	DLA Drop lens acrylic ( n/a with KRX )	120	XHP High reactance (lag) high power factor	<b>Installed</b>
KRX	35L <sup>1</sup>		DLP Drop lens polycarbonate	208	RHP Reactor high power factor <sup>5</sup>	LPI Lamp included
KP2	55L <sup>1</sup>			240		LPIC Lamp included (deluxe/coated)
	90L <sup>2</sup>			277		L/LP Less lamp
	135L <sup>2</sup>			347		PER NEMA twist-lock receptacle only (photocontrol not included)
	180L <sup>2</sup>			480		PEU NEMA twist-lock PE
				120/240 <sup>6</sup>		SF Single fuse (120V, 277V, 347V) <sup>3</sup>
				240/120 <sup>7</sup>		DF Double fuse (208V, 240V, 480V) <sup>3</sup>
				208/277 <sup>8</sup>		Shipped separately <sup>4</sup>
				277/208 <sup>9</sup>		SC Shorting cap for PER option

- NOTES:
- Available in KRX only.
  - Not available in KRX.
  - Not available with dual-tap voltages (120/240, 240/120, 208/277, 277/208).
  - May be ordered as an accessory.
  - Available in 480V in KRX (35L and 55L) 480V in 90L in KRP and 480V 135L in KP2 only.
  - Prewired to 120.
  - Prewired to 240.
  - Prewired to 208.
  - Prewired to 277.

Series	Weight (lbs.)	EPA (sq. ft.)
KRP90	51	1.45
KRP135	51	1.45
KRP180	51	1.86
KRX	20	1.00
KP290	31	1.00
KP2135	31	1.20
KP2180	31	1.45



Medium Wattage-Rectilinear Roadway Lighting

**KDC1**  
**KDC2**



Intended Use

For parking areas, street lighting, walkways and car lots.

Features

Housing – Durable die-cast aluminum housing for long life. Standard product is designed to mount to pipe mast arm. KDC1 and KDC2 fixtures accept up to 2-3/8" OD mast arm. Direct pole mount arms are available. Consult factory. Dark bronze polyester powder finish (DDB) standard, other architectural colors available.

Lens – Choice of flat tempered glass, sag glass, drop acrylic or drop polycarbonate.

Electrical – Removable ballast tray electrical system for installation and maintenance ease. Not all ballast options are compatible with all wattage/voltage sources. Consult factory.

Listings

UL Listed standard. CSA Certified (see Options).

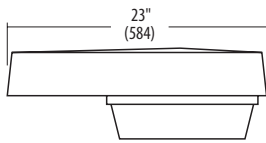
Ordering Information

Example: **KDC1 100S R2 FL 120 RNP PER LPI**

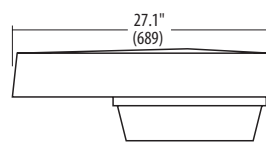
Wattage	Distribution	Lens	Voltage	Ballast <sup>7</sup>	Options/accessories <sup>8</sup>
<u>High pressure sodium</u>					
<b>KDC1 70S</b>	<b>R2</b>	<b>DLA</b> Drop acrylic prismatic refractor <sup>1</sup>	<b>120</b>	<b>RNP</b> Reactor normal power factor <sup>1</sup>	<u>Installed</u>
<b>KDC1 100S</b>	<b>R3</b>	<b>DLP</b> Drop polycarbonate prismatic refractor <sup>1</sup>	<b>208</b>	<b>RHP</b> Reactor high power factor <sup>1</sup>	<b>LPI</b> Lamp included
<b>KDC1 150S</b>		<b>FL</b> Flat lens, tempered glass (clear) <sup>2,3</sup>	<b>240</b>	<b>50HZ</b> 50 hertz	<b>LPIC</b> Lamp included, coated
<b>KDC2 200S</b>		<b>SLG</b> Sag lens, tempered glass (clear) <sup>4</sup>	<b>277</b>	<b>MRB</b> Mag reg ballast	<b>L/LP</b> Less lamp
<b>KDC2 250S</b>			<b>347</b>	<b>CWI</b> CWI ballast	<b>PER</b> NEMA twist-lock receptacle only (photocontrol not included)
<b>KDC2 310S</b>			<b>480</b>	<b>CWA</b> Constant wattage autotransformer	<b>PEU</b> NEMA twist-lock PE
<b>KDC2 400S</b>			<b>TB<sup>5,6</sup></b>	<b>XHP</b> High reactance (lag) high power factor <sup>1</sup>	<b>MA2</b> 2-bolt internal 2" setting
<b>KDC2 250/400S</b>			<b>TB1<sup>5,6</sup></b>	<b>XNP</b> High reactance (lag) normal power factor <sup>1</sup>	<b>HKP</b> Hinge keeper
<b>KDC2 400/250S</b>			<b>TB2<sup>5,6</sup></b>		<b>OPS</b> Open plug-in starter <sup>1</sup>
<u>Metal halide</u>					
<b>KDC1 175M</b>			<b>120/240<sup>13</sup></b>		<b>ENP</b> Encapsulated plug-in starter <sup>1</sup>
<b>KDC2 250M</b>			<b>240/120<sup>14</sup></b>		<b>PSS</b> Protected auto shutoff <sup>9</sup>
<b>KDC2 400M</b>			<b>240/480<sup>14</sup></b>		<b>T2P</b> Terminal block-two position wired L1, L2
<u>Mercury vapor</u>					
<b>KDC1 175MV</b>			<b>480/240<sup>15</sup></b>		<b>T3P</b> Terminal block-three position wired L1, N, L2
<b>KDC2 250MV</b>					<b>CSA</b> CSA Certified
<b>KDC2 400MV</b>					<b>NML</b> NEMA label

NOTES:

- HPS only.
- N/A with 250M, 400M, 250MV or 400MV when ordered in the R3 distribution.
- Requires use of ED28 lamp in order to accommodate R2 FL in 400M and 400MV.
- N/A with 250M, 400M, 250MV or 400MV when ordered in the R2 distribution.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.
- N/A with RNP or RHP.
- Not all ballast options are available with all wattage/voltage sources. Consult factory.
- KDC1 and KDC2 do NOT ship with an arm. These products are designed for mounting on a pipe mast arm (1.25" internal fitter). For other mounting requirements, consult factory.
- Limited availability, consult factory.
- 120, 277V onl, n/a TB.
- VOIDS UL/CSA Listing, n/a dual-tap voltages (120/240V, 240/120V, 240/480V or 480/240V).
- May be ordered as an accessory.
- Prewired to 120V.
- Prewired to 240V.
- Prewired to 480V.



KDC1



KDC2

Shipped separately<sup>12</sup>

**SC** Shorting cap for PER option

Series	Weight (lbs.)	EPA (sq. ft.)
KDC1, refractor	30	1.4
KDC1, flat lens	30	1.1
KDC2, flat lens	45	2.1
KDC2, drop lens	45	2.4

# TDS2 TDS3

### Intended Use

For roadways, residential streets, parking lots, walkways and parks.

### Features

Housing – Innovative docking system provides modular installation and interchangeability for easy maintenance. Rugged die-cast, powder-coated docking station mounts securely to mast-arm to ensure secure wiring and long-lasting stability. Durable lightweight fixture positively docks by plugging in with a 20° locking twist. Cam-latch door frame allows easy re-lamping without tools on the TDS2 fixture, while die-cast trigger latch on the door frame of the TDS3 fixture enables easy and secure one-hand opening for re-lamping and maintenance. Wildlife shield is cast into the docking station (not a separate piece) and easily is adjustable for 1.25" to 2" mast arms. Gray finish standard.

Lens – Choice of flat tempered glass, sag glass,

drop acrylic or drop polycarbonate. Optical chamber is IP64 rated.

Electrical – Not all ballast options are compatible with all wattage/voltage sources. Consult factory.

### Listings

UL Listed (standard). CSA Certified (see Options).

**NEW**



### Ordering Information

Example: TDS2 175MV R3 DLP 277 CWA PER LPI

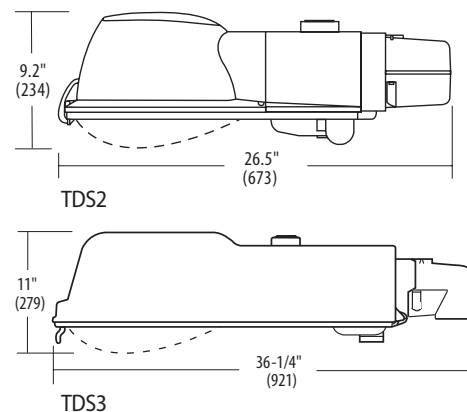
Designation	Distribution	Lens	Voltage	Ballast <sup>8</sup>	Options/accessories
<u>High pressure sodium</u>	<b>R2</b>	<b>DLA</b> Drop acrylic prismatic refractor <sup>2,3</sup>	<b>120</b>	<b>RNP</b> Reactor normal power factor <sup>9</sup>	<u>Installed</u>
<b>TDS2 30S</b>	<b>R3</b>	<b>DLP</b> Drop polycarbonate prismatic refractor <sup>2</sup>	<b>208</b>	<b>RHP</b> Reactor high power factor <sup>9</sup>	<b>LPI</b> Lamp included
<b>TDS2 50S</b>		<b>FL</b> Flat lens, tempered glass (clear) <sup>4</sup>	<b>240</b>	<b>50HZ</b> 50 hertz	<b>LPIC</b> Lamp included, coated
<b>TDS2 70S</b>		<b>SLG</b> Sag lens, tempered glass (clear) <sup>5</sup>	<b>277</b>	<b>MRB</b> Mag reg ballast	<b>L/LP</b> Less lamp
<b>TDS2 100S</b>			<b>480</b>	<b>CWI</b> CWI ballast	<b>PER</b> NEMA twist-lock receptacle only (photocontrol not included)
<b>TDS2 150S</b>			<b>TB<sup>6,7</sup></b>	<b>CWA</b> Constant wattage autotransformer	<b>PEU</b> NEMA twist-lock PE
<b>TDS3 200S</b>			<b>TB<sup>6,7</sup></b>	<b>XHP</b> High reactance (lag) high power factor <sup>9</sup>	<b>MA2</b> 2-bolt internal 2" setting
<b>TDS3 250S</b>			<b>TB<sup>6,7</sup></b>	<b>XNP</b> High reactance (lag) normal power factor <sup>9</sup>	<b>L/DLD</b> Less docking station
<b>TDS3 310S</b>			<b>120/240<sup>12</sup></b>	<b>L/E</b> Less electrical <sup>10</sup>	<b>IS</b> Vertical tenon mount (integral slipfitter)
<b>TDS3 400S</b>			<b>240/120<sup>13</sup></b>		<b>DPL</b> Distribution pattern indicator label
<b>TDS3 250/400S</b>			<b>240/480<sup>13</sup></b>		<b>CSA</b> CSA Certified
<b>TDS3 400/250S</b>			<b>480/240<sup>14</sup></b>		<b>HSS</b> Stainless steel external hardware
<u>Metal halide</u>					<u>Shipped separately<sup>11</sup></u>
<b>TDS2 175M<sup>1</sup></b>					<b>SC</b> Shorting cap for PER option
<b>TDS3 175M</b>					
<b>TDS3 250M</b>					
<b>TDS3 400M</b>					
<b>TDS3 250/400M</b>					
<b>TDS3 400/250M</b>					
<u>Mercury vapor</u>					
<b>TDS2 100MV<sup>1</sup></b>					
<b>TDS2 175MV</b>					
<b>TDS3 175MV</b>					
<b>TDS3 250MV</b>					
<b>TDS3 400MV</b>					

NOTES:

- 1 Available with DLP lens only.
- 2 N/A with TDS3.
- 3 N/A with 150S, 175M and 175MV.
- 4 N/A with 175M or 175MV in TDS2.
- 5 N/A with TDS2.
- 6 Optional multi-tap ballast (120, 208, 240, 277). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.
- 7 N/A with RNP or RHP.
- 8 Not all ballast options are available with all wattage/voltage sources. Consult factory.
- 9 HPS only.
- 10 Shipped without ballast/electrical components.
- 11 May be ordered as an accessory.
- 12 Prewired to 120V.
- 12 Prewired to 240V.
- 14 Prewired to 480V.



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction  
May depend on optical selection. Consult factory



Series	Weight (lbs.)	EPA (sq. ft.)
TDS2, flat lens	14	.56
TDS2	14	.70
TDS3, flat lens	30	1.24
TDS3	30	1.43

## Small Roadway Lighting

## CHE



## Intended Use

Ideal for roadways, residential streets, storage areas, parking lots, campuses and parks.

## Features

Construction – Stainless steel latch permits easy opening with one hand for relamping and servicing. Large surface area "breathing-seal" polyester gasketing protects reflector and lens from contaminants; maintains maximum optical efficiency. **Twist-lock photocontrol receptacle NOT included as standard. (To order, specify PER option, see below.)** Integral wildlife shield.

Finish – Gray (DGYG) polyester powder paint finish is electrostatically applied for superior corrosion resistance.

Optical System – Ovate refractors in a variety of materials or flat tempered glass full cutoff lens provides a choice of efficient light distributions for every application. Optics are computer designed for maximum performance.

Electrical System – Reactor, normal power factor ballast standard. High power factor available (see Options). Two or three-position (L1, L2, N) tunnel type compression terminal block standard.

Installation – Two-bolt mast arm mount. Arm is compatible with 1.25" - 2.0" (3.2cm - 5.1cm) mast arm.

## Listings

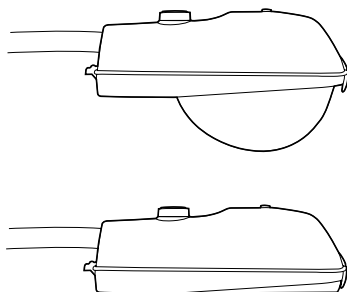
IP32 rated housing and IP54 rated optical assembly is standard. Standard product is NOT Listed by UL, CSA or NOM. For specific Listing requirements, consult factory.

## Ordering Information

Series	Wattage	NEMA distribution
CHE	High pressure sodium 355 <sup>1</sup> 50S 70S 100S 150S	R2 R3

Lens	Voltage	Ballast options	Options
DLG Drop lens glass (std.) DLA Drop lens acrylic <sup>2</sup> DLP Drop lens polycarbonate <sup>2</sup> FL Flat tempered glass lens, full cutoff	(blank) 120 L/E L/E <sup>3</sup>	(blank) Reactor normal power factor ballast (std.) RHP Reactor high power factor ballast	Installed LPI Lamp included L/LP Less lamp PER NEMA twist-lock receptacle only (photocontrol not included) PEU NEMA twist-lock PE DPL Distribution pattern label T2P Terminal block - two position wired L1, L2 HSS Stainless steel external hardware Shipped separately <sup>4</sup> SC Shorting cap for PER option

Example: CHE 100S R2 DLG 120 PER LPI



Dimensions are shown in inches (centimeters) and pounds (kilograms) unless otherwise noted.

Flat lens EPA:	.61 ft <sup>2</sup> (.057 m <sup>2</sup> )
Drop lens EPA:	.77 ft <sup>2</sup> (.072 m <sup>2</sup> )
Length:	21 (53.3)
Width:	12-7/8 (32.7)
Flat lens depth:	6-7/8 (12.5)
Drop lens depth:	10-1/2 (26.7)
Weight:	12 (5.4)

## NOTES:

- 1 Not available with RHP.
- 2 Available with R2 distribution only.
- 3 Shipped without ballast/electrical components.
- 4 May be ordered as an accessory.

# CHL CHLD

### Intended Use

Ideal for roadways, residential streets, storage areas, parking lots, shopping centers, apartments and condominium complexes, campuses and parks.

### Features

Construction – Die-cast trigger latch on lower housing permits easy one-hand opening for relamping and servicing. Large surface area "breathing-seal" polyester gasketing protects reflector and lens from contaminants; maintains maximum optical efficiency. Die-cast low copper aluminum alloy for light weight, strength and reliable service. **Twist-lock photocontrol receptacle NOT included as standard. (To order, specify PER option, see below.)** CHLD units: all major electrical components mounted on removable power door for easy field servicing and maintenance.

Finish – Gray (DGYG) polyester powder paint finish is electrostatically applied for superior

corrosion resistance.

Optical System – Ovate refractors or full cutoff flat lens styles provide a choice of efficient light distributions for every application. Optics are computer designed for maximum performance. One-piece screw shell socket provides positive retention of lamp under vibration.

Electrical System – Lag, high power factor (HPS) or constant wattage autotransformer (MH and MV) standard. Two- or three-position (L1, L2, N) tunnel type compression terminal block standard.

Installation – Two-bolt mast arm mount with integral stepped leveling system provides secure mounting and easy leveling. Arm is compatible with 1.25"-2.0" (3.2 cm - 5.1 cm) mast arm. Four bolt mast arm mount available.

### Listings

IP64 rated optical assembly. Standard product is NOT Listed by UL, CSA or NOM. For UL or CSA (see Options).



Example: CHL 150S R2 DLG 120 PER LPI

### Ordering Information

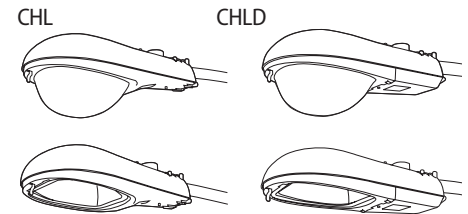
Series	Wattage	Distribution	Lens	Voltage	Ballast <sup>12</sup>	Options
CHL	High pressure sodium	R2	DLG Drop lens glass (prismatic)	120	(blank) Standard ballast (see above)	<b>Installed</b>
CHLD	50S	R3	DLA Drop lens acrylic (prismatic) <sup>1</sup>	208	RNP Reactor normal power factor <sup>4</sup>	LPI Lamp included
	70S		DLP Drop lens polycarbonate (prismatic) <sup>2</sup>	220	RHP Reactor high power factor <sup>4</sup>	LPIC Lamp included (deluxe/coated)
	100S		FL Flat lens, tempered glass (clear) <sup>3</sup>	240	50HZ 50 hertz	L/LP Less lamp
	150S		FLX Flat lens, tempered glass, high performance (clear) <sup>4,5</sup>	277	MRB Mag reg ballast	PER NEMA twist-lock receptacle only (photocontrol not included)
	250S		SLG SAG lens, tempered glass (clear) <sup>5</sup>	480	CWI CWI ballast	PEU NEMA twist-lock PE
	100/150S			TB <sup>6,7</sup>	CWA Constant wattage autotransformer	CF Charcoal filter
	150/100S			TB1 <sup>6,7</sup>	XHP High reactance (lag) high power factor <sup>4</sup>	BLV Bubble level
	Metal halide			TB2 <sup>6,7</sup>	XNP High reactance (lag) normal power factor <sup>4</sup>	4BM 4-bolt mounting
	175M			TB3 <sup>6,7</sup>		2EF External fitter (2-bolt only)
	250M			120/240 <sup>8</sup>		MA2 2-bolt internal 2" pipe setting
	Mercury vapor			240/120 <sup>9</sup>		OPS Open plug-in starter <sup>4</sup>
	175MV			240/480 <sup>9</sup>		ENP Encapsulated plug-in starter <sup>4</sup>
	250MV			480/240 <sup>10</sup>		DPL Distribution pattern label
				L/E <sup>11</sup>		T2P Terminal block-two position wired L1, L2
						T3P Terminal block-two position wired L1, N, L2
						UL UL Listed
						CSA CSA Certified
						HSS Stainless steel external hardware
						LSA Single lighting surge arrester <sup>13</sup>
						SF Single fuse, 120V, 277V, 347V (n/a TB) <sup>13,14</sup>
						DF Double fuse, 208V, 220V, 240V, 480V (n/a TB) <sup>14,15</sup>
						DDB Dark bronze finish
						DBL Black finish
						Shipped separately <sup>16</sup>
						SC Shorting cap for PER option

NOTES:

- 150S, 175M, 175MV max.
- N/A with 400S
- HPS - 150 watt max. with R3; MH or MV must use deluxe/coated lamp (LPIC).
- HPS only.
- Not available with 200S or 250S.
- Optional multi-tap ballast (120, 208, 240, 277). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.
- N/A with RNP or RHP.
- Prewired to 120V.
- Prewired to 240V.
- Prewired to 480V.
- Shipped without ballast/electrical components.
- Not all ballast options are available with all wattage/sources/voltages, consult factory.
- 120, 277V only, n/a TB.
- Not available with UL or CSA options.
- 208, 220, 240, 480V only, n/a TB.
- May be ordered as an accessory.

Dimensions are shown in inches (centimeters) and pounds (kilograms) unless otherwise noted. Dimensions do not include mounting arm.

	CHL	CHLD
Flat lens EPA:	.74ft <sup>2</sup> (.07 m <sup>2</sup> )	.74ft <sup>2</sup> (.07 m <sup>2</sup> )
Drop lens EPA:	.90ft <sup>2</sup> (.08 m <sup>2</sup> )	.90ft <sup>2</sup> (.08 m <sup>2</sup> )
Flat lens depth:	6-1/2 (16.5)	6-1/2 (16.5)
Drop lens depth:	10-1/8 (25.7)	10-1/8 (25.7)
Length:	27 (66.6)	27 (66.6)
Width:	13 (33.0)	13 (33.0)
Weight:	29 (13.2)	33 (15.0)





Medium-Wattage Roadway Lighting

# CHM CHMD



### Intended Use

Ideal for roadways, residential streets, storage areas, parking lots, shopping centers, apartments and condominium complexes, campuses and parks.

### Features

**Construction** – Die-cast trigger latch on lower housing for easy one-hand opening for relamping and servicing. Large surface area "breathing-seal" polyester gasketing protects reflector and lens from contaminants; maintains maximum optical efficiency. Die-cast low copper aluminum alloy for light weight, strength and reliable service. **Twist-lock photocontrol receptacle NOT included as standard. (To order, specify PER option, see below.)** CHMD units: all major electrical components mounted on removable power door for easy field servicing and maintenance.

**Finish** – Gray (DGYG) polyester powder paint finish is electrostatically applied for superior corrosion resistance.

**Optical System** – Ovate refractors or full cutoff flat lens styles provide a choice of efficient light distributions for every application. Optics are computer designed for maximum performance. One-piece screw shell socket for positive retention of lamp under vibration.

**Electrical System** – Lag, high power factor or constant wattage autotransformer standard. Two- or three-position (L1, L2, N) tunnel type compression terminal block standard.

**Installation** – Four-bolt mast arm mount – the most secure mounting in the industry. Arm is compatible with 1.25" - 2.0" (3.2cm - 5.1cm) mast arm.

### Listings

IP64 rated optical assembly. Standard product is NOT Listed by UL, CSA or NOM. For UL or CSA (see Options).

### Ordering Information

Example: **CHM 400S R2 DLG 120 PER LPI**

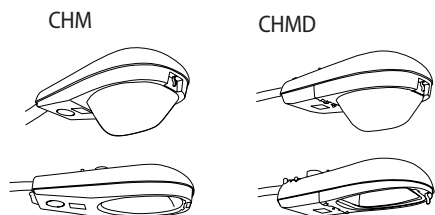
Series	Wattage	NEMA distribution	Lens	Voltage	Ballast <sup>12</sup>	Options/accessories
CHM	High pressure sodium	R2	DLG Drop lens glass (prismatic) <sup>2</sup>	120	(blank) Standard ballast (see above)	<b>Installed</b>
CHMD	200S	R3	DLP Drop lens polycarbonate (prismatic)	208	RNP Reactor normal power factor <sup>4</sup>	LPI Lamp included
	250S	R4 <sup>1</sup>		220		RHP Reactor high power factor <sup>4</sup>
	310S		240	50HZ 50 hertz	L/LP Less lamp	
	250/400S	277	MRB Mag reg ballast		PER NEMA twist-lock receptacle only (photocontrol not included)	
	400/250S	480		CWI CWI ballast	PEU NEMA twist-lock PE	
	400S	TB <sup>6,7</sup>	CWA Constant wattage autotransformer		CF Charcoal filter	
	Metal halide	FL Flat lens, tempered glass (clear) <sup>3</sup>		XHP High reactance (lag) high power factor <sup>4</sup>	BLV Bubble level	
	175M	FLX Flat lens, tempered glass, high performance (clear) <sup>4</sup>	XNP High reactance (lag) normal power factor <sup>4</sup>		2BM 2-bolt mounting	
	250M	SLG SAG lens, tempered glass (clear) <sup>5</sup>		SCWA Super CWA pulse start <sup>13</sup>	OPS Open plug-in starter <sup>4</sup>	
	250/400M		120/240 <sup>8</sup>		ENP Encapsulated plug-in starter <sup>4</sup>	
	400/250M		240/120 <sup>9</sup>	DPL Distribution pattern label		
	320M		240/480 <sup>9</sup>	T2P Terminal block-two position wired L1, L2		
	350M		480/240 <sup>10</sup>	T3P Terminal block-three position wired L1, N, L2		
	400M		L/E <sup>11</sup>	UL UL Listed		
	Mercury vapor			CSA CSA Certified		
175MV			HSS Stainless steel external hardware			
250MV			LSA Single lighting surge arrestor <sup>14</sup>			
400MV			SF Single fuse, 120V, 277V, 347V (n/a TB) <sup>14,15</sup>			

- NOTES:
- Available only in HPS with DLG lens.
  - Not available with 175M, 250M, 175MV or 250MV when ordered in the R2 distribution.
  - Not available with 400M or 400MV.
  - HPS only.
  - Not available with 175M, 250M, 175MV or 250MV.
  - Optional multi-tap ballast (120, 208, 240, 277). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.
  - Not available with RNP or RHP.
  - Prewired to 120V.
  - Prewired to 240V.
  - Prewired to 480V.
  - Shipped without ballast/electrical components.
  - Not all ballast options are available with all wattage/sources/voltages. Consult factory.
  - Pulse start MH only.
  - 120, 277V only, n/a TB.
  - Not available with UL or CSA options.
  - 208, 220, 240, 480V only, n/a TB.
  - May be ordered as an accessory.

- LPI Lamp included
- LPIC Lamp included (deluxe/coated)
- L/LP Less lamp
- PER NEMA twist-lock receptacle only (photocontrol not included)
- PEU NEMA twist-lock PE
- CF Charcoal filter
- BLV Bubble level
- 2BM 2-bolt mounting
- OPS Open plug-in starter<sup>4</sup>
- ENP Encapsulated plug-in starter<sup>4</sup>
- DPL Distribution pattern label
- T2P Terminal block-two position wired L1, L2
- T3P Terminal block-three position wired L1, N, L2
- UL UL Listed
- CSA CSA Certified
- HSS Stainless steel external hardware
- LSA Single lighting surge arrestor<sup>14</sup>
- SF Single fuse, 120V, 277V, 347V (n/a TB)<sup>14,15</sup>
- DF Double fuse, 208V, 220V, 240V, 480V (n/a TB)<sup>15,16</sup>
- DDB Dark bronze finish
- DBL Black finish
- Shipped separately<sup>17</sup>
- SC Shorting cap for PER option

Dimensions are shown in inches (centimeters) and pounds (kilograms) unless otherwise noted. Dimensions do not include mounting arm.

	CHM	CHMD
Flat lens EPA:	1.14ft <sup>2</sup> (.11m <sup>2</sup> )	1.14ft <sup>2</sup> (.11m <sup>2</sup> )
Drop lens EPA:	1.3ft <sup>2</sup> (.12m <sup>2</sup> )	1.3ft <sup>2</sup> (.12m <sup>2</sup> )
Flat lens depth:	7-1/2(19.1)	7-1/2(19.1)
Drop lens depth:	14(35.6)	14(35.6)
Length:	31-1/2(80.0)	31-1/2(80.0)
Width:	14-3/4(37.5)	14-3/4(37.5)
Weight:	41(18.6)	45(20.4)



# CHX

### Intended Use

Ideal for roadways, residential streets, storage areas, parking lots, shopping centers, apartments and condominium complexes, campuses and parks.

### Features

Construction – Die-cast trigger latch on lower housing for easy one-hand opening for relamping and servicing. Large surface area "breathing-seal" polyester gasketing protects reflector and lens from contaminants; maintains maximum optical efficiency. Die-cast low copper aluminum alloy for light weight, strength and reliable service. **Twist-lock photocontrol receptacle NOT included as standard. (To order, specify PER option, see below.)**

Finish – Gray (DGYG) polyester powder paint finish is electrostatically applied for superior corrosion resistance.

Optical System – Ovate refractor/reflector optics provide a uniform distribution pattern with superior luminaire-to-pole spacing. One-piece screw shell socket provides positive retention of lamp under vibration.

Electrical System – Constant wattage autotransformer standard. Two- or three-position (L1, L2, N) tunnel type compression terminal block standard.

Installation – Four-bolt mast arm mount – the most secure mounting in the industry. Arm is compatible with 1.25" - 2.0" (3.2cm - 5.1cm) mast arm.

### Listings

Standard product is NOT Listed by UL, CSA or NOM.



### Ordering Information

Example: **CHX 400S R2 DLG 120 PER LPI**

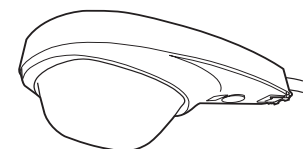
Series	Wattage	NEMA distribution	Lens	Voltage	Ballast options <sup>7</sup>	Options/accessories
CHX	High pressure sodium 310S 400S 1000S Metal halide 1000M Mercury vapor 750MV 1000MV	R2 <sup>1</sup> R3	DLG Drop lens glass (std.)	120 208 240 220 277 TB <sup>2</sup> TB1 <sup>2</sup> TB2 <sup>2</sup> TB3 <sup>2</sup> 120/240 <sup>3</sup> 240/120 <sup>4</sup> 240/480 <sup>4</sup> 480/240 <sup>5</sup> L/E <sup>6</sup>	(blank) Standard CWA CWI CWI ballast SCWA SCWA pulse start <sup>8</sup> MRB Mag reg ballast (3 coil)	Installed LPI Lamp included L/LP Less lamp PER NEMA twist-lock receptacle only (photocontrol not included) PEU NEMA twist-lock PE BLV Bubble level DPL Distribution pattern label T2P Terminal block-two position wired L1, L2 T3P Terminal block-three position wired L1, N, L2 HSS Stainless steel external hardware LSA Single lighting surge arrestor <sup>9</sup> SF Single 5-amp fuse <sup>9</sup> DF Double 5-amp fuse <sup>10</sup> DDB Dark bronze finish DBL Black finish Shipped separately <sup>11</sup> SC Shorting cap for PER option

NOTES:

- Not available in 1000HPS.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277V. Others are: 1 = 120V, 2 = 208V, 3 = 240V
- Prewired to 120V.
- Prewired to 240V.
- Prewired to 480V.
- Shipped without ballast/electrical components.
- Not all ballasts are available with all wattages/sources/voltages, consult factory.
- Pulse start in MH only.
- Available in 120V and 277V only.
- Available in 208, 220, 240 and 480V only.
- May be ordered as an accessory.

Dimensions are shown in inches (centimeters) and pounds (kilograms) unless otherwise noted. Dimensions do not include mounting arm.

EPA:	1.96 ft <sup>2</sup> (.18 m <sup>2</sup> )
Depth:	16-1/4 (41.3)
Length:	38-3/8 (97.5)
Width:	17-1/2 (44.5)
Weight:	76 (34.5)



## Set-Back Roadway Lighting

## TMM

NEW



## Intended Use

For interstate roadways, commercial and residential roadways and large parking areas.

## Features

Housing – Durable die-cast aluminum housing for long life. Adjustable and locking knuckle mount provides for precise and secure aiming of the luminaire. TMM fixtures accept up to 3" OD mast arm. Latch-on lens frame enables easy and secure one-handed opening for re-lamping. Dark bronze polyester powder finish (DDB) standard; other architectural colors available.

Lens – Drop acrylic prismatic refractor.

Electrical – Not all ballast options are compatible with all wattages/voltages/sources. Consult factory.

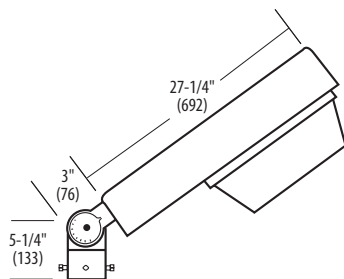
## Listings

Standard product is NOT UL Listed for US and Canadian safety standards.

## Ordering Information

## Example: TMM 250M R3 DLA TB1 CWA PER LPI

Series	Wattage	Distribution	Lens	Voltage	Ballast <sup>4</sup>	Options/accessories													
TMM	High pressure sodium	R3 <sup>2</sup>	DLA Drop acrylic prismatic refractor	120	RNP Reactor normal power factor <sup>5</sup>	Installed													
	200S			208			LPI Lamp included												
	250S			240				LPIC Lamp included, coated											
	310S			277					L/LP Less lamp										
	400S			347						PER NEMA twist-lock receptacle only (photocontrol not included)									
	250/400S			480							PEU NEMA twist-lock PE								
	400/250S			TB <sup>3</sup>								HKP Hinge keeper							
	Metal halide			TB1 <sup>3</sup>									OPS Open plug-in starter <sup>5</sup>						
	250M			TB2 <sup>3</sup>										ENP Encapsulated plug-in starter <sup>5</sup>					
	400M <sup>1</sup>			TB3 <sup>3</sup>											NML NEMA label				
	Mercury vapor			120/240 <sup>8</sup>												T2P Terminal block-two position wired L1, L2			
	250MV			240/120 <sup>9</sup>													T3P Terminal block-three position wired L1, N, L2		
	400MV			240/480 <sup>9</sup>														LSA Single lighting surge arrester (n/a TB) <sup>6</sup>	
				480/240 <sup>10</sup>															SF Single fuse, 120V, 277V, 347V (n/a TB) <sup>6</sup>
		DPL Distribution pattern indicator label																	
			HSS Stainless steel external hardware																
				DBL Black finish															
					DGYG Gray finish														
						DWH White finish													
							Shipped separately <sup>7</sup>												
								SC Shorting cap for PER option											



Dimensions are shown in inches (centimeters) unless otherwise noted.

## NOTES:

- Requires reduced jacket ED-28 lamp.
- Distribution depends on tilt angle of fixture.
- Optional multi-tap ballast (120, 208, 240, 277). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.
- Not all ballast options are available with all wattage/voltage/sources. Consult factory.
- HPS only.
- Not available with dual tap voltages (120/240, 240/120, 240/480, 480/240).
- May be ordered as an accessory.
- Prewired to 120.
- Prewired to 240.
- Prewired to 480.

Series	Weight (lbs.)	EPA (sq. ft.)
TMM	42	2.8

# TDR

**NEW**



### Intended Use

For interstate roadways, commercial and residential roadways and large parking areas.

### Features

Housing – Rugged die-cast aluminum housing is powder-coated for durability and corrosion resistance. Door is hinged and easily removable for quick maintenance. Easy single fastener closure for fast re-lamping and optional tool-less access available. Adjustable and locking knuckle mount (tenon slipfitter) comes standard and provides for precise and secure aiming of the luminaire. TDR fixtures accept up to 3" OD tenon. Other mounting arrangements available (see Options). Gray polyester powder finish (DGYG) standard; other architectural colors available.

Lens – Drop or flat clear tempered glass lens available.

Electrical – Not all ballast options are compatible with all wattages/voltages/sources. Consult factory.

### Listings

UL Listed (standard). CSA Certified (see Options).

### Ordering Information

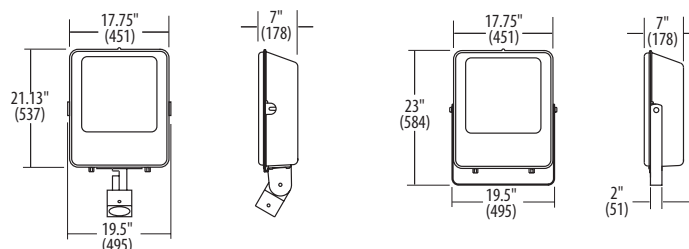
Example: **TDR 250S R3 FL TB1 CWA PER LPI**

Series	Wattage	Distribution	Lens	Voltage	Ballast <sup>3</sup>	Options/accessories
<b>TDR</b>	<u>High pressure sodium</u>		<b>FL</b> Flat lens, tempered glass (clear) <b>SLG</b> Sag lens, tempered glass (clear)	<b>120</b>	<b>RNP</b> Reactor normal power factor <sup>4</sup> <b>RHP</b> Reactor high power factor <sup>4</sup> <b>MRB</b> Mag reg ballast <b>CWI</b> CWI ballast <b>CWA</b> Constant wattage autotransformer <b>SCWA</b> Super constant wattage autotransformer <b>XHP</b> High reactance (lag) high power factor <sup>5</sup> <b>XNP</b> High reactance (lag) normal powerfactor <sup>5</sup>	<b>Installed</b> <b>LPI</b> Lamp included <b>LPIC</b> Lamp included, coated <b>L/LP</b> Less lamp <b>PER</b> NEMA twist-lock receptacle only (photocontrol not included) <b>PEU</b> NEMA twist-lock PE <b>GYK</b> Yoke galvanized <b>YK</b> Yoke painted <b>HKP</b> Hinge keeper <b>OPS</b> Open plug-in starter <sup>5</sup> <b>ENP</b> Encapsulated plug-in starter <sup>5</sup> <b>CSA</b> CSA Certified <b>NML</b> NEMA label <b>T2P</b> Terminal block-two position wired L1, L2 <b>T3P</b> Terminal block-three position wired L1, N, L2 <b>LSA</b> Single lighting surge arrestor (n/a TB) <sup>5</sup> <b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB) <sup>5</sup> <b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB) <sup>5</sup> <b>PD</b> Power door (ballast tray) <b>DPL</b> Distribution pattern indicator label <b>HSS</b> Stainless steel external hardware <b>DBL</b> Black finish <b>DGYG</b> Gray finish <b>DWH</b> White finish <b>TLS</b> Tool-less entry <b>Shipped separately<sup>6</sup></b> <b>SC</b> Shorting cap for PER option
	<b>200S</b>	<b>R3<sup>1</sup></b>		<b>208</b>		
	<b>250S</b>			<b>240</b>		
	<b>310S</b>			<b>277</b>		
	<b>400S</b>			<b>347</b>		
	<b>250/400S</b>			<b>480</b>		
	<b>400/250S</b>			<b>TB<sup>2</sup></b>		
	<u>Metal halide</u>			<b>TB1<sup>2</sup></b>		
	<b>175M</b>			<b>TB2<sup>2</sup></b>		
	<b>250M</b>			<b>TB3<sup>2</sup></b>		
	<b>400M</b>			<b>120/240<sup>7</sup></b>		
	<b>250/400M</b>			<b>240/120<sup>8</sup></b>		
	<b>400/250M</b>			<b>240/480<sup>8</sup></b>		
	<u>Mercury vapor</u>			<b>480/240<sup>9</sup></b>		
	<b>175MV</b>					
<b>250MV</b>						
<b>400MV</b>						

**NOTES:**

- Distribution depends on tilt angle of fixture.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.
- Not all ballast options are available with all wattage/voltage/sources, consult factory.
- HPS only.
- Not available with dual tap voltages (120/240V, 240/120V, 240/480V, 480/240V).
- May be ordered as an accessory.
- Prewired to 120.
- Prewired to 240.
- Prewired to 480.

Series	Weight (lbs.)	EPA (sq. ft.)
TDR	37	2.75



Dimensions are shown in inches (centimeters) unless otherwise noted.

Dusk-to-Dawn Area Lighters

# TDD



**Intended Use**

For lighting yards and parking lots, service roads and building perimeters.

**Features**

Housing – Rugged, die-cast, aluminum head with standard NEMA photocell receptacle.

Optics – Formed aluminum reflectors and open bottom refractor for ease of maintenance and lamp replacement. Prismatic refractor provides uniform symmetrical Type V distribution, mogul-based socket.

Installation – 1-1/4" (OD) mounting arm and all mounting hardware is included in carton. Photocell and lamp are included in carton (24" mounting arm).

**Listings**

UL Listed to US and Canadian safety standards. UL/C-UL Listed for wet locations (25°C ambient temperature).

**lightquick<sup>®</sup> XD**  
Express delivery products.

See page 11 for details about LightQuick XD.

*Description*

**TDD 175MV 120 PER LPI M2**

**Ordering Information**

<b>Designation</b> High pressure sodium <b>TDD 100S</b> <b>TDD 150S</b> Mercury vapor <b>TDD 175MV</b>	<b>Voltage</b> <b>120</b>	<b>Photocell</b> <b>PER</b> Photocell receptacle and NEMA twist-lock photocell included (std.)	<b>Lamp</b> <b>LPI</b> Lamp included (std.)
---	------------------------------	---	--

**Example: TDD 175MV 120 PER LPI**

**Accessories** (Order separately)

<b>PE1</b>	Replacement photocell
<b>RK1 TDDLENS</b>	Replacement lens

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

EPA:	0.8ft <sup>2</sup> (0.07m <sup>2</sup> )
Height:	17(43.18)
Width:	12(30.48)
Depth:	12(30.48)
Max. weight:	12lbs (5.44kg)

# TDL



**Intended Use**

For lighting yards and parking lots, service roads and building perimeters.

**Features**

Housing – Rugged, die-cast, aluminum head with standard NEMA photocell receptacle.

Optics – Fluted aluminum reflectors and open bottom refractor for ease of maintenance and lamp replacement. Prismatic acrylic refractor provides uniform symmetrical Type V distribution. Glass for 250MV.

cell and lamp are included in carton. (18"-24" mounting arm depending on wattage).

**Listings**

150S and below and 175MV and below are UL Listed for wet locations. For CSA or NOM requirements, consult factory.

Installation – 1-1/4" (OD) mounting arm and all mounting hardware is included in carton. Photo-

**Ordering Information**

<b>Designation</b> High pressure sodium <b>TDL 70S</b> <b>100S</b> <b>150S</b> Mercury vapor <b>TDL 175MV</b> <b>250MV</b>	<b>Voltage</b> <b>120</b>	<b>Options</b> <b>Installed</b> <b>PKG</b> Fixture, mounting arm, hardware, lamp and photoeye included in one box (standard) <b>L/PKG</b> Fixture, optical and receptacle only in box
---	------------------------------	--

**Example: TDL 175MV 120 PKG**

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

EPA:	0.8ft <sup>2</sup> (0.07m <sup>2</sup> )
Height:	15-1/2(39.4)
Width:	12(30.48)
Depth:	12(30.48)
Max. weight:	18lbs (8.16kg)

www.lithonia.com, keyword: TDD and TDL

Dusk-to-Dawn Area Lighters

Intended Use

For lighting yards and parking lots, service roads and building perimeters.

Features

Housing – Rugged, die-cast, aluminum head with standard NEMA photocell receptacle.

Optics – Formed aluminum reflectors and open-bottom refractor for easy maintenance and lamp replacement. Optical assembly attaches via two tool-less toggle latches. Prismatic acrylic refractor provides uniform symmetrical Type V distribution. Glass for 250MV.

Installation – 1-1/4" (OD) mounting arm and all mounting hardware is included in carton. Photocell and lamp are included in carton. (24" mounting arm).

Listings

Standard product is NOT Listed by UL, CSA or NOM, consult factory.

**TDB**



Example: TDB 175MV 120 PKG

Accessories (Order separately)  
**RK1 TDBLENS R5A A1250B** Replacement lens

Dimensions are shown in inches (centimeters) unless otherwise noted.  
 EPA: 0.8ft<sup>2</sup>(0.07m<sup>2</sup>)  
 Height: 15-1/2(39.4)  
 Width: 12(30.48)  
 Depth: 12(30.48)  
 Max. weight: 15lbs (6.8 kg)

Ordering Information

Designation	Voltage	Options/accessories
<u>High pressure sodium</u>	<b>120</b>	<u>Installed</u>
<b>TDB 50S</b>		<b>PKG</b> Fixture, mounting arm, hardware, lamp and photoeye included in one box (standard)
<b>70S</b>		<b>L/PKG</b> Fixture, optical and receptacle only in box
<b>100S</b>		
<b>150S</b>		
<u>Mercury vapor</u>		
<b>TDB 100MV</b>		
<b>175MV</b>		
<b>250MV</b>		

Intended Use

For lighting yards and parking lots, service roads and building perimeters.

Features

Housing – Rugged, die-cast, aluminum head with standard NEMA photocell receptacle.

Optics – Spun anodized aluminum reflector delivers IES Type V full-cutoff distributions. Open bottom housing provides easy maintenance and lamp replacement.

Installation – 1-1/4" (OD) mounting arm and all mounting hardware is included in carton. Photo-

cell and lamp are included in carton. (24" mounting arm).

Listings

Standard product is NOT Listed by UL, CSA or NOM, consult factory.

**TDC**



Example: TDC 175MV 120 PKG

Dimensions are shown in inches (centimeters) unless otherwise noted.  
 EPA: 1.2ft<sup>2</sup>(0.11m<sup>2</sup>)  
 Height: 17(43.18)  
 Width: 12(30.48)  
 Depth: 12(30.48)  
 Max. weight: 12lbs (5.44 kg)

Ordering Information

Designation	Voltage	Options
<u>High pressure sodium</u>	<b>120</b>	<u>Installed</u>
<b>TDC 70S</b>		<b>PKG</b> Fixture, mounting arm, hardware, lamp and photoeye included in one box (standard)
<b>100S</b>		<b>L/PKG</b> Fixture, optical and receptacle only in box
<b>150S</b>		
<u>Mercury vapor</u>		
<b>TDC 175MV</b>		
<b>250MV</b>		

Security Light

# TDX



Intended Use

Rural areas, small businesses, storage lots, security lighting, roadway lighting and general area lighting.

Features

Housing – Durable die-cast aluminum ballast housing. Mounts to 1.25" mast arm only.

Lens – Drop acrylic, drop polycarbonate, flat glass lens available. Also available less lens.

Electrical – Not all ballast options are available with all wattages/voltages/sources, consult factory.

Listings

Standard products in NOT by UL or CSA.

Ordering Information

Example: **TDX 150S R1 120 RNP PER LPI**

Series	Wattage	Distribution	Voltage	Ballast <sup>2</sup>	Options/accessories					
<b>TDX</b>	<u>High pressure sodium</u>	<b>R1</b>	<b>120</b>	<b>RNP</b> Reactor normal power factor <sup>3</sup>	<b>Installed</b>					
	<b>50S</b>					<b>LPI</b> Lamp included	<b>PKG</b> Package includes photocontrol, lamp, 24" welded arm, 1.25" diameter, 5' supply wire			
	<b>70S</b>					<b>LPIC</b> Lamp included, coated		<b>HSS</b> Stainless steel external hardware		
	<b>100S</b>					<b>L/LP</b> Less lamp			<b>Shipped separately<sup>4</sup></b>	
	<b>150S</b>					<b>PER</b> NEMA twist-lock receptacle only (photocontrol not included)				<b>SC</b> Shorting cap for PER option
	<b>100/150S</b>					<b>PEU</b> NEMA twist-lock PE				
	<b>150/100S</b>					<b>NML</b> NEMA label				
	<u>Metal halide</u>					<b>T2P</b> Terminal block two-position wired L1, L2				
	<b>175M</b>					<b>T3P</b> Terminal block three-position wired L1, N, L2				
	<u>Mercury vapor</u>									
<b>175MV</b>										

Dimensions are shown in inches (centimeters) unless otherwise noted.

EPA: 0.7ft<sup>2</sup>(0.07m<sup>2</sup>)  
 Height: 7-27/32(19.9)  
 Width: 12-3/32(30.7)  
 Depth: 23-1/16(58.6)  
 Max. weight: 12lbs(5.4kg)

NOTES:  
 1 Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.  
 2 Not all ballast options are available with all wattages/sources/voltages, consult factory.  
 3 HPS only.  
 4 May be ordered as an accessory.  
 5 Prewired to 120V.  
 6 Prewired to 240V.

# TDA



Intended Use

Parking lots, roadways, commercial environments and office communities.

Features

Housing – One piece die-cast aluminum head and arm configuration for long-life stability and performance. Optical assembly utilizes dual latch mounting for quick, easy and secure installation. Gray polyester powder finish (DGYG) standard.

Lens – Refractors available in open-bottom acrylic, polycarbonate and glass.

Electrical – Electrical components mounted to power door for installation and maintenance convenience. Not all ballast options are available with all wattages/voltages/sources, consult factory.

Listings

UL Listed (standard). CSA Certified (see Options).

Ordering Information

Example: **TDA 70S R5 A1250B 120 RNP PER LPI**

Series	Wattage	Distribution	Lens	Voltage	Ballast <sup>4</sup>	Options/accessories		
<b>TDA</b>	<u>High pressure sodium</u>	<b>R1</b>	<b>A1250B</b> Open bottom acrylic refractor	<b>120</b>	<b>RNP</b> Reactor normal power factor <sup>5</sup>	<b>Installed</b>		
	<b>50S</b>						<b>175M</b>	<b>LPI</b> Lamp included
	<b>70S</b>						<b>250M</b>	<b>LPIC</b> Lamp included, coated
	<b>100S</b>						<b>400M</b>	<b>L/LP</b> Less lamp
	<b>150S</b>						<b>250/400M</b>	<b>PER</b> NEMA twist-lock receptacle only (photocontrol not included)
	<b>200S</b>						<b>400/250M</b>	<b>PEU</b> NEMA twist-lock PE
	<b>250S</b>						<u>Mercury vapor</u>	<b>ENP</b> Encapsulated plug-in starter <sup>5</sup>
	<b>310S</b>						<b>100MV</b>	<b>CSA</b> CSA Certified
	<b>400S</b>						<b>175MV</b>	<b>T2P</b> Terminal block-two-position wired L1, L2 <sup>6</sup>
	<b>250/400S</b>						<b>250MV</b>	<b>T3P</b> Terminal block-three-position wired L1, N, L2 <sup>6</sup>
<b>400/250S</b>	<b>400MV</b>		<b>TBK</b> Terminal block <sup>6</sup>					
			<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB) <sup>6,7</sup>					
			<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB) <sup>6,7</sup>					
			<b>HSS</b> Stainless steel external hardware					
			<b>TLS</b> Tool-less entry					

Dimensions are shown in inches (centimeters) unless otherwise noted.

EPA: 2.9ft<sup>2</sup>(0.88m<sup>2</sup>)  
 Height: 13-1/2(34.3)  
 Width: 12(30.48)  
 Depth: 37(94)  
 Max. weight: 35lbs(15.9kg)

NOTES:  
 1 Not available with RX distribution.  
 2 Not available with R4 distribution.  
 3 Optional multi-tap ballast (120, 208, 240, 277). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.  
 4 Not all ballast options are available with all wattages/sources/voltages, consult factory.  
 5 HPS only.  
 6 Voids UL Listing (n/a CSA).  
 7 Not available with dual-tap voltages (120/240, 240/120, 240/480, 480/240).  
 8 Prewired to 120V.  
 9 Prewired to 240V.  
 10 Prewired to 480V.

# ASB

Aeris™

### Intended Use

For walkways, plazas or pedestrian areas.

### Features

Housing – Bottom housing is 0.188" extruded aluminum. Decorative Aeris™ top cover is sand-cast with 0.188" minimum wall thickness. 42" overall height standard. Flush-fitting lens is 1/4", clear, 100% virgin acrylic. Exposed hardware is tamper-resistant stainless steel. Four 1/2" x 11" anchor bolts with double nuts/washers and 4-1/2" diameter bolt circle template provided for mounting (shipped separately). Dark bronze textured (DDBT) corrosion-resistant polyester powder finish standard; other architectural colors available.

Optics – Reflector system incorporates an anodized, spun aluminum flared cone and an anodized, hydroformed, fluted upper reflector providing a Type V (symmetric) cutoff distribution. Optional cylindrical lower reflector available.

Electrical – Ballasts are copper wound and 100% factory tested. Electrical components are unitized on removable power module and accessible through bottom of bollard. Positive-locking, quick-disconnect on secondary circuit. Medium-base porcelain socket, 4KV pulse rated.


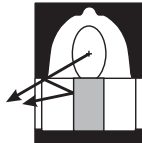
### Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.



Example: **ASBY 50S R5 120 CR LPI**

### Ordering Information

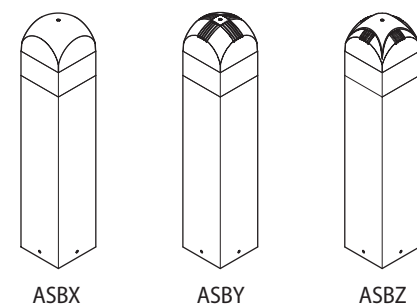
Series	Wattage	Reflector	Voltage	Options
<b>ASBX</b>	High pressure sodium	Standard flared cone	<b>120</b>	<u>Installed</u>
<b>ASBY</b>	<b>50S</b>	<b>R5</b> Type V distribution	<b>208</b>	<b>LPI</b> Lamp included
<b>ASBZ</b>	<b>70S</b>		<b>240</b>	<b>L/LP</b> Less lamp
	<b>100S</b>		<b>277</b>	<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB)
	<b>150S</b>		<b>347</b>	<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB)
	Metal halide		<b>TB<sup>3</sup></b>	<b>CR</b> Enhanced corrosion resistance
	<b>70M<sup>1</sup></b>			<b>H24</b> 24" overall height
	<b>100M<sup>1</sup></b>			<b>H30</b> 30" overall height
	Incandescent	Optional cylindrical reflector		<b>H36</b> 36" overall height
	<b>I<sup>2</sup></b>	<b>CYA</b> Specular alzak		<b>FD</b> Festoon outlet
		<b>CYB</b> Black alzak		<b>FG</b> Festoon outlet with duplex ground fault receptacle <sup>4</sup>
		<b>CYG</b> Gold alzak		<b>CSA</b> CSA Certified
		<b>CYF</b> Flat black		
				

NOTES:

- 1 Requires coated lamp.
- 2 120V only. 150W max., lamp not provided.
- 3 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 4 Cover ships separately.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

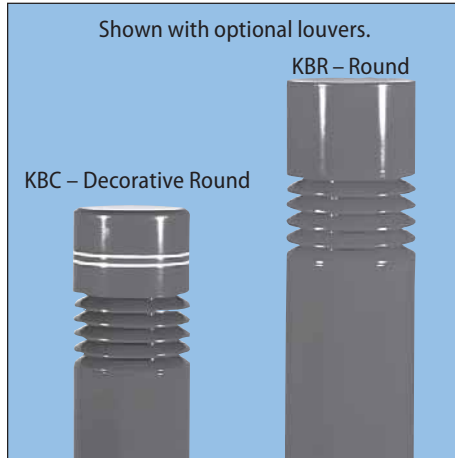
	ASBX	ASBY	ASBZ
Square:	8(20.3)	8(20.3)	8(20.3)
Height:	42(106.7)	42(106.7)	42(106.7)
Max. weight:	43.2lbs (19.6kg)	43.2lbs (19.6kg)	43.2lbs (19.6kg)




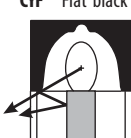



## Round Bollards

# KBC KBR



### Ordering Information

Designation	Reflector	Voltage	Options/accessories
<b>6" Bollards</b>			
<u>High pressure sodium</u>	<u>Standard flared cone</u>	<b>120</b>	<u>Installed</u>
<b>KB_6 35S<sup>1</sup></b>	<b>R5</b> Type V distribution	<b>208<sup>9</sup></b>	<b>LPI</b> Lamp included (n/a with incandescent)
<b>KB_6 50S</b>		<b>240<sup>9</sup></b>	<b>L/LP</b> Less lamp
<b>KB_6 70S</b>	<u>Optional cylindrical reflector</u>	<b>277</b>	<b>SF</b> Single fuse, 120V, 277V, 347V
<u>Metal halide</u>	<b>CYA</b> Specular alzak	<b>347</b>	<b>DF</b> Double fuse, 208V, 240V
<b>KB_6 50M<sup>2</sup></b>	<b>CYB</b> Black alzak	<b>TB<sup>6</sup></b>	<b>CR</b> Enhanced corrosion resistance
<b>KB_6 70M<sup>2</sup></b>	<b>CVG</b> Gold alzak		<b>H24</b> 24" overall height
<u>Incandescent</u>	<b>CYF</b> Flat black		<b>H30</b> 30" overall height
<b>KB_6 1<sup>1,3</sup></b>			<b>H36</b> 36" overall height
<b>8" Bollards</b>			
<u>High pressure sodium</u>	<u>Louver (8" only)</u>		<b>FD</b> Festoon outlet
<b>KB_8 50S</b>	<b>LV</b> Louvers		<b>FG</b> Festoon outlet with duplex ground fault receptacle <sup>7</sup>
<b>KB_8 70S</b>			<b>CSA</b> CSA Certified
<b>KB_8 100S</b>			For optional architectural colors, see page 543.
<b>KB_8 150S</b>			<u>Shipped separately</u>
<u>Metal halide</u>			<b>R6S</b> Half-shield (6" round)
<b>KB_8 70M<sup>2</sup></b>			<b>R8S</b> Half-shield (8" round)
<b>KB_8 100M<sup>2</sup></b>			
<b>KB_8 175M<sup>2,4</sup></b>			
<u>Incandescent</u>			
<b>KB_8 1<sup>1,5</sup></b>			
<u>Compact fluorescent<sup>4</sup></u>			
<b>KB_8 22DTT</b>			
<b>KB_8 28DTT</b>			
<b>KB_8 26TRT</b>			
<b>KB_8 32TRT</b>			

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	<i>KBC6 &amp; KBR6</i>	<i>KBC8 &amp; KBR8</i>
Diameter:	6 (15.2)	8 (20.3)
Height:*	42 (106.7)	42 (106.7)
Max. weight:	34.9 lbs (15.9 kg)	34.9 lbs (15.9 kg)

\* Also available in 24" (H24), 30" (H30) and 36" (H36).

### Intended Use

For walkways, plazas or pedestrian areas.

### Features

Housing – KB\_6: Bottom housing is 0.125" extruded aluminum. Top cover is 0.156" cast aluminum. KB\_8: Bottom housing is 0.156" extruded aluminum 42" overall height standard. Flush-fitting lens is 1/2", clear, 100% virgin acrylic. All exposed hardware is tamper-resistant stainless steel. Four 1/2" x 11" anchor bolts with double nuts/washers and 4-1/2" diameter bolt circle template provided for mounting (shipped separately). Dark bronze (DDB) corrosion-resistant polyester powder finish standard; other architectural colors available.

Optics – Reflector system incorporates an anodized, spun aluminum, flared cone and an anodized, hydroformed, fluted upper reflector providing a Type V (symmetric) cutoff distribution. Optional cylindrical lower reflector or cast-alu-

minum louvers are available.

Electrical – All ballasts copper wound and 100% factory tested. Electrical components unitized on removable power module and accessible through bottom of bollard. Positive-locking, quick-disconnect on secondary circuit. Medium-base porcelain socket, 4KV pulse rated.

### Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.

Example: **KBR8 100M R5 120 CR LPI**

### NOTES:

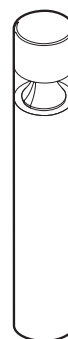
- 120V only.
- Use coated lamp.
- 116W/T5, lamp not included.
- Louver must be used.
- 150W max., lamp not included.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Covers ships separately.
- Not available with LV option, available in 6" units only.
- Consult factory for availability in Canada.



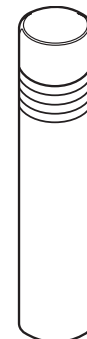
KBC6



KBC8-LV



KBR6



KBR8-LV

# KBS KBE

### Intended Use

For walkways, plazas or pedestrian areas.

### Features

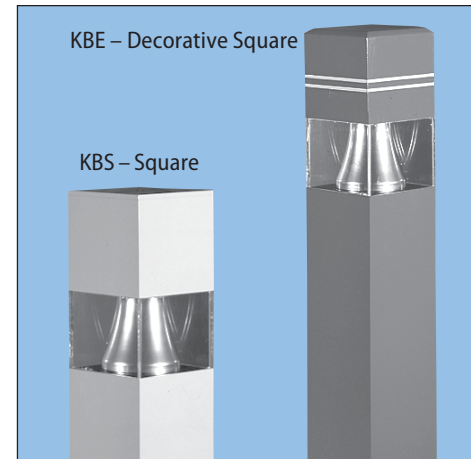
Housing – Bottom housing is 0.188" extruded aluminum. Top cover is a weldment of 0.188" aluminum extrusion and 0.250" aluminum plate. 42" overall height standard. Flush-fitting lens is 1/4", clear, 100% virgin acrylic. Exposed hardware is tamper-resistant stainless steel. Four 1/2" x 11" anchor bolts with double nuts/washers and 4 1/2" diameter bolt circle template provided for mounting (shipped separately). Dark bronze (DDB) corrosion-resistant polyester powder finish standard; other architectural colors available. Architectural Class I dark bronze anodized finish also available on KBS8.

Optics – Reflector system incorporates an anodized, spun aluminum flared cone and an anodized, hydroformed, fluted upper reflector providing a Type V (symmetric) cutoff distribution. Optional cylindrical lower reflector available.

Electrical – Ballasts are copper wound and 100% factory tested. Electrical components are unitized on removable power module and accessible through bottom of bollard. Positive-locking, quick-disconnect on secondary circuit. Medium-base porcelain socket, 4KV pulse rated.



### Listings

UL Listed (standard). CSA Certified (see Options).  
UL Listed for wet locations.



Example: **KBS6 35S R5 120 CR LPI**

### Ordering Information

Designation	Reflector	Voltage	Options/accessories
<b>6" Bollards</b>			
<u>High pressure sodium</u>	<u>Standard flared cone</u>	<b>120</b>	<u>Installed</u>
<b>KB_6 35S<sup>1</sup></b>	<b>R5</b> Type V distribution	<b>208<sup>7</sup></b>	<b>LPI</b> Lamp included (n/a with incandescent)
<b>KB_6 50S</b>		<b>240<sup>7</sup></b>	<b>L/LP</b> Less lamp
<b>KB_6 70S</b>		<b>277</b>	<b>SF</b> Single fuse, 120V, 277V, 347V
<u>Metal halide</u>		<b>347</b>	<b>DF</b> Double fuse, 208V, 240V
<b>KB_6 50M<sup>2</sup></b>		<b>TB<sup>5</sup></b>	<b>CR</b> Enhanced corrosion resistance
<b>KB_6 70M<sup>2</sup></b>			<b>H24</b> 24" overall height
<u>Incandescent</u>			<b>H30</b> 30" overall height
<b>KB_6 I<sup>1,3</sup></b>	<u>Optional cylindrical reflector</u>		<b>H36</b> 36" overall height
<b>8" Bollards</b>			
<u>High pressure sodium</u>	<b>CYA</b> Specular alzak		<b>FD</b> Festoon outlet
<b>KB_8 50S</b>	<b>CYB</b> Black alzak		<b>FG</b> Festoon outlet with duplex ground fault receptacle <sup>6</sup>
<b>KB_8 70S</b>	<b>CYG</b> Gold alzak		<b>CSA</b> CSA Certified
<b>KB_8 100S</b>	<b>CYF</b> Flat black		<u>Shipped separately</u>
<b>KB_8 150S</b>			<b>S6S</b> Half-shield (6" square)
<u>Metal halide</u>			<b>S8S</b> Half-shield (8" square)
<b>KB_8 70M<sup>2</sup></b>			For optional architectural colors, see page 543.
<b>KB_8 100M<sup>2</sup></b>			
<u>Incandescent</u>			
<b>KB_8 I<sup>1,4</sup></b>			

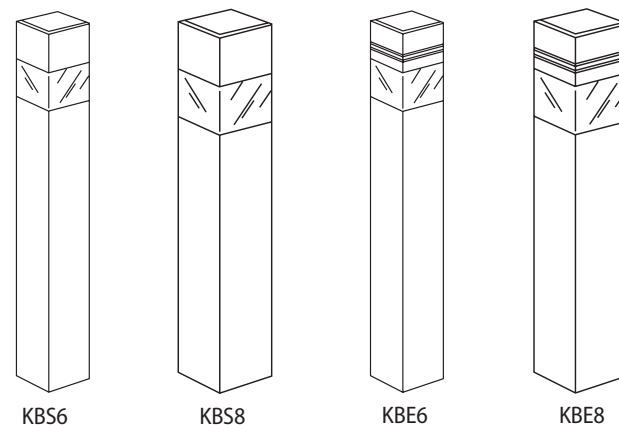
### NOTES:

- 120V only.
- Requires coated lamp.
- 116W/TS, lamp not included.
- 150W max., lamp not included.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Cover ships separately.
- Consult factory for availability in Canada.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	<i>KBE6&amp;KBS6</i>	<i>KBE8&amp;KBS8</i>
Square:	6(15.2)	8(20.3)
Height:*	42(106.7)	42(106.7)
Max. weight:	43.2lbs (19.6kg)	43.2lbs (19.6kg)

\* Also available in 24" (H24), 30" (H30) and 36" (H36).


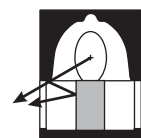
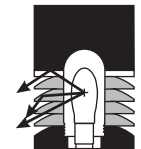


Round Bollards

# KBA KBD



Ordering Information

Designation	Reflector	Voltage	Options/accessories
<b>6" Bollards</b>			
<u>High pressure sodium</u>	<b>Standard flared cone</b> <b>R5</b> Type V distribution   <b>Optional cylindrical reflector</b> <b>CYA</b> Specular alzak <b>CYB</b> Black alzak <b>CYG</b> Gold alzak <b>CYF</b> Flat black 	<b>120</b> <b>208<sup>9</sup></b> <b>240<sup>9</sup></b> <b>277</b> <b>347</b> <b>TB<sup>6</sup></b>	<b>Installed</b> <b>LPI</b> Lamp included (n/a with incandescent) <b>L/LP</b> Less lamp <b>SF</b> Single fuse, 120V, 277V, 347V <b>DF</b> Double fuse, 208V, 240V <b>CR</b> Enhanced corrosion resistance <b>H24</b> 24" overall height <b>H30</b> 30" overall height <b>H36</b> 36" overall height <b>FD</b> Festoon outlet <b>FG</b> Festoon outlet with duplex ground fault receptacle <sup>7</sup> <b>CSA</b> CSA Certified For optional architectural colors, see page 543. <b>Shipped separately</b> <b>R6S</b> Half-shield (6" round) <b>R8S</b> Half-shield (8" round)
<b>KB_6 35S<sup>1</sup></b>			
<b>KB_6 50S</b>			
<b>KB_6 70S</b>			
<u>Metal halide</u>			
<b>KB_6 50M<sup>2</sup></b>			
<b>KB_6 70M<sup>2</sup></b>			
<u>Incandescent</u>			
<b>KB_6 I<sup>1,3</sup></b>			
<b>8" Bollards</b>			
<u>High pressure sodium</u>	<b>Louver (8" ONLY)</b> <b>LV</b> Louvers 		
<b>KB_8 50S</b>			
<b>KB_8 70S</b>			
<b>KB_8 100S</b>			
<b>KB_8 150S</b>			
<u>Metal halide</u>			
<b>KB_8 70M<sup>2</sup></b>			
<b>KB_8 100M<sup>2</sup></b>			
<u>Incandescent</u>			
<b>KB_8 I<sup>1,4</sup></b>			
<u>Compact fluorescent<sup>5</sup></u>			
<b>KB_8 22DTT</b>			
<b>KB_8 28DTT</b>			
<b>KB_8 26TRT</b>			
<b>KB_8 32TRT</b>			

Dimensions are shown in inches (centimeters) unless otherwise noted.

	KBD6 & KBA6	KBD8 & KBA8
Diameter:	6 (15.2)	8 (20.3)
Height:*	42 (106.7)	42 (106.7)
Max. weight:	34.9 lbs (15.9 kg)	34.9 lbs (15.9 kg)

\* Also available in 24" (H24), 30" (H30) and 36" (H36).

Intended Use

For walkways, plazas or pedestrian areas.

Features

Housing – KB\_6: Bottom housing is 0.125" extruded aluminum. Top cover is 0.156" cast aluminum. KB\_8: Bottom housing is 0.156" extruded aluminum. 42" overall height standard on KBD and KBA6. 43" overall height standard on KBA8. Flush-fitting lens is 1/4", clear, 100% virgin acrylic. All exposed hardware is tamper-resistant stainless steel. Four 1/2" x 11" anchor bolts with double nuts/washers and 4 1/2" diameter bolt circle template provide for mounting (shipped separately). Dark bronze (DDB) corrosion-resistant polyester powder finish standard; other architectural colors available.

Optics – Reflector system incorporates an anodized, spun aluminum, flared cone and an anodized, hydroformed, fluted upper reflector pro-

viding a Type V (symmetric) cutoff distribution. Optional cylindrical lower reflector or cast aluminum louvers available.

Electrical – All ballasts are copper wound and 100% factory tested. Electrical components are unitized on removable power module and accessible through bottom of bollard. Positive-locking quick disconnect on secondary circuit. Medium-base porcelain socket, 4KV pulse rated.

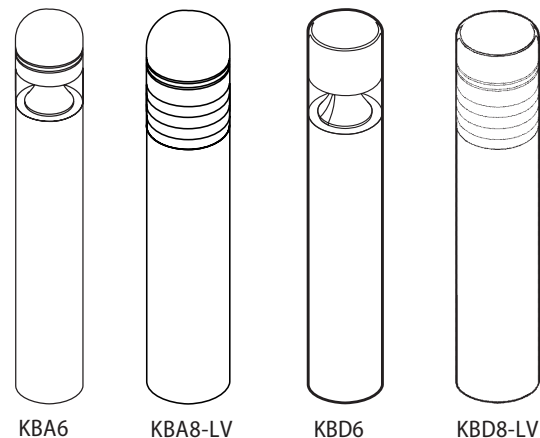
Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.

Example: **KBA6 35S R5 120 CR LPI**

NOTES:

- 120V only.
- Requires coated lamp.
- 116W/TS, lamp not included.
- 150W max., lamp not included.
- Louver must be used.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Covers ships separately.
- Not available with LV option, available in 6" units only.
- Consult factory for availability in Canada.



Recessed Low-Mount Floods

**KL**

**Intended Use**

For use in site walls or as stair lighting.

**Features**

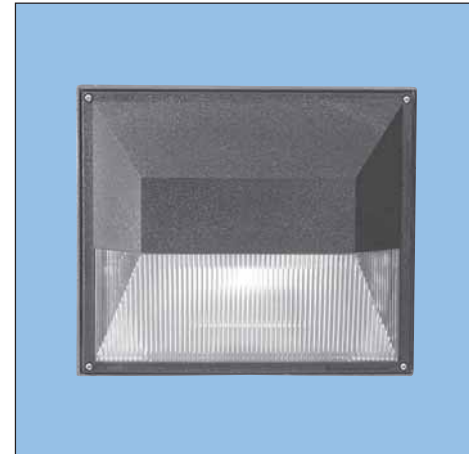
**Housing** – One-piece, cast-aluminum housing (alloy contains less than 0.2% copper) with integral splice compartment (46 cu. in.); four 3/4" NPT conduit entries. Lens is one-piece, injection-molded, UV-stabilized polycarbonate, .125" minimum thickness. Tooled-in, stippled texture on non-optical portions. Die-cut, closed-cell EPDM gasket. Housing is shipped separately from lens/reflector/power module. Stainless steel, captive, Philips-type fasteners (tamper-resistant fasteners also provided). Standard lens finish is dark bronze enamel (painted on both inside and outside of non-optical portion). Black, white and natural aluminum finishes also available. Housing finish is clear polyester powder for corrosion protection. Recessed concrete cast in place is standard; optional mountings available.

**Optics** – Reflectors are anodized, hydroformed aluminum. Two distributions available: *A* (for uniform symmetrical area lighting) and *D* (for left or right directional-throw area lighting, featuring a unique bi-adjustable socket assembly that can be field-adjusted up or down to provide maximum light distribution on stairway plane).

**Electrical** – All ballasts are copper wound and 100% factory-tested. Electrical components are unitized on removable power module. Positive-locking disconnect on primary and secondary circuits. Medium-base porcelain socket, 4KV pulse rated.

**Listings**

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.



Example: **KL 50S A 120 QRS LPI**

**Ordering Information**

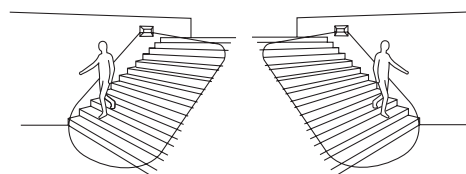
Designation	Distribution	Voltage	Options/accessories
<u>High pressure sodium</u>	<b>A</b> Area	<b>120</b>	<b>Installed</b>
<b>KL 50S</b>	<b>D</b> Directional	<b>208<sup>5</sup></b>	<b>LPI</b> Lamp included (n/a with incandescent)
<b>KL 70S</b>		<b>240<sup>5</sup></b>	<b>L/LP</b> Less lamp
<b>KL 100S<sup>1</sup></b>		<b>277</b>	<b>SF</b> Single fuse, 120V, 277V
<u>Metal halide</u>		<b>347</b>	<b>QRS</b> Quartz restrrike system
<b>KL 70M</b>		<b>TB<sup>6</sup></b>	<b>PE</b> Photoelectric cell (only available with BBW, BBF)
<b>KL 100M<sup>1</sup></b>			<b>EC</b> Emergency circuit
<u>Incandescent</u>			<b>BBS</b> Backbox (stud wall mount)
<b>KL I<sup>1,2,3,4</sup></b>			<b>BBW</b> Backbox (surface wall mount)
			<b>BBF</b> Backbox (flat horizontal surface mount)
			<b>BBR</b> Recessed (ceiling, soffit mount)
			<b>CSA</b> CSA Certified
			<u>Architectural colors (optional)</u>
			<b>DBB</b> Dark bronze (standard)
			<b>DBL</b> Black
			<b>DNA</b> Natural aluminum
			<b>DWH</b> White

**NOTES:**

- 1 For inverted mounting application, 70W max.
- 2 150W A21 max. in A distribution.
- 3 100W A21 max. in D distribution.
- 4 120V only.
- 5 Consult factory for availability in Canada.
- 6 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada (120V, 277V, 347V; ships as 120V/347V).



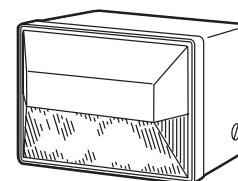
Bi-adjustable socket assembly KL "D" distribution



Left or right directional light distribution may be selected in the field.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

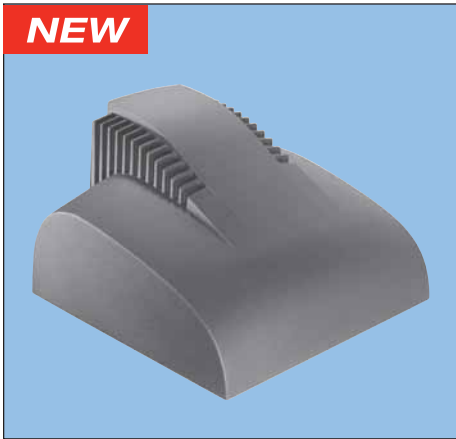
- Height: 12-1/4(31.1)
- Width: 14-1/4(36.2)
- Depth: 8-3/16(20.8)
- Backbox: 6(15.2)
- Lens: 2-3/16(5.6)
- Max. weight: 15lbs (7 kg)



# ASW

Aeris™

**NEW**



## Ordering Information

Designation	Distribution	Voltage
<b>High pressure sodium</b>		
ASW1 70S	SR2 Segmented type II, roadway	120
ASW1 100S	SR3 Segmented type III, asymmetric	208 <sup>8</sup>
ASW1 150S		240 <sup>8</sup>
ASW1 200S	SR4SC Segmented type IV, forward throw, sharp cutoff	277
ASW2 250S		347
ASW2 400S	SR4W Segmented type IV wide, forward throw (ASW2 only)	480 <sup>8</sup>
		TB <sup>9</sup>
<b>Metal halide</b>		
ASW1 70M	GZ Wall grazing <sup>4,5</sup>	TB <sup>9</sup>
ASW1 100M		MVOLT <sup>11</sup>
ASW1 150M <sup>1</sup>	SP Tight spot <sup>5,6,7</sup>	
ASW1 175M		
ASW2 200M <sup>2</sup>		
ASW2 250M <sup>1</sup>		
ASW2 320M <sup>2</sup>		
ASW2 350M <sup>2</sup>		
ASW2 400M <sup>1</sup>		
<b>Compact fluorescent</b>		
ASW1 26TRT <sup>3</sup>		
ASW1 32TRT		
ASW1 2/32TRT <sup>3</sup>		
ASW1 42TRT		
ASW1 2/42TRT <sup>3</sup>		
ASW1 57TRT		
ASW1 70TRT		

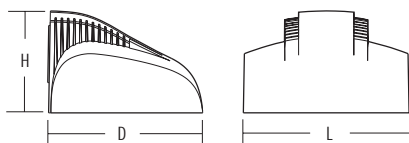


Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

May depend on optical selection. Consult factory.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	ASW1	ASW2
Length:	15 (38.10)	20-1/4 (51.44)
Depth:	13-3/4 (34.93)	18-3/4 (47.63)
Height:	9-1/4 (25.5)	12-1/2 (31.75)
Max. weight:	35 lbs (15.9 kg)	49 lbs (22.236 kg)



### Intended Use

For building and wall-mounted applications.

### Features

**Housing** – Rugged, die-cast, single-piece aluminum housing. Die-cast door frame has impact-resistant, tempered glass lens. Door frame is fully sealed with a closed cell silicone gasket. Standard finish is textured dark bronze (DDBT) polyester powder. Other architectural colors available.

**Optics** – High-performance, segmented reflectors provide superior uniformity and control. Specialty anodized aluminum spot and grazer optics also are available. Reflectors are interchangeable and have field degree aiming capability up to 10° without tools. Reflectors allow for tool-less access to electrical components. All optics meet IES full cutoff criteria in lens-down orientation.

**Electrical** – 150W and below utilizes a high reactance, high-power factor ballast. 175W and

above utilizes a constant-wattage auto transformer ballast. Compact fluorescent uses an electronic high frequency ballast. Quick disconnect plugs easily disconnect reflector from ballast and fixture from supply wires. Ballasts are precision wound and 100% factory tested.

**Socket** – Porcelain, medium-base socket for ASW1, mogul-base socket for ASW2, with copper alloy, nickel-plated screw shell and center contact. Fluorescent is four-pin positive latching thermoplastic. UL Listed.

**Installation** – Universal mounting plate with integral mounting bolts supports the fixture for easy one person installation.

### Listings

UL Listed to US and Canadian safety standards. CSA Certified or NOM Certified (see Options). UL Listed suitable for wet locations in up or down orientation. IP65 rated. U.S. Patent No. D500,569. Other patents pending.

Example: **ASW1 175M SR2 120 SF LPI**

Options/accessories	
<b>Installed</b>	
<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB or TBV)	<b>ASW1VG</b> Size 1 vandal guard
<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB or TBV)	<b>ASW2BBW</b> Size 2 surface-mounted back box
<b>GMF</b> Internal slow-blow fusing (n/a with MVOLT; CF only)	<b>ASW2WG</b> Size 2 wire guard
<b>EC</b> Emergency circuit (100W max., lamp not included) <sup>6</sup>	<b>ASW2VG</b> Size 2 vandal guard
<b>ELDW</b> Emergency battery pack <sup>12</sup>	<b>Architectural colors<sup>15</sup></b>
<b>DC12</b> Emergency circuit 12-volt (35W lamp included std., ASW1 only) <sup>4,6</sup>	<b>Standard textured colors</b>
<b>2DC12</b> Emergency circuit 12-volt (2/35W lamps included std., ASW1 only) <sup>4,6</sup>	<b>DDBT</b> Dark bronze (std.)
<b>DC2012</b> Emergency circuit 12-volt (20W lamp included std., ASW1 only) <sup>4,6</sup>	<b>DSST</b> Sandstone
<b>2DC2012</b> Emergency circuit 12-volt (2/20W lamps included std., ASW1 only) <sup>4,6</sup>	<b>DNAT</b> Natural aluminum
<b>QRS</b> Quartz restrike system (100W max., lamp not included) <sup>6</sup>	<b>DWHG</b> White
<b>QRSTD</b> Quartz restrike time delay (100W max., lamp not included) <sup>6</sup>	<b>DBLB</b> Black
<b>CR</b> Enhanced corrosion resistance	<b>Optional textured colors</b>
<b>CRT</b> Non-stick protective coating (black only)	<b>DBNH</b> Bronze
<b>PE</b> Photoelectric cell, button type (n/a TB, TBV or MVOLT) <sup>13</sup>	<b>DSPD</b> Dark gray
<b>HS</b> House-side shield <sup>14</sup>	<b>DSPJ</b> Light gray
<b>SCWA</b> Super CWA pulse start ballast <sup>7</sup>	<b>DSPE</b> Green
<b>CSA</b> Listed and labeled to comply with Canadian safety standards	<b>DSPG</b> Dark red
<b>NOM</b> NOM Certified	<b>DSPF</b> Rust
<b>LPI</b> Lamp included	<b>DSPH</b> Red
<b>L/LP</b> Less lamp	
<b>Shipped separately</b>	
<b>ASW1BBW</b> Size 1 surface-mounted back box	
<b>ASW1WG</b> Size 1 wire guard	

### NOTES:

- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA.
- 3 Available with SR3 only.
- 4 DC options and GZ cannot be ordered together (ASW1 only).
- 5 Not available with compact fluorescent.
- 6 EC, QRS, QRSTD, DC options or SP cannot be ordered together.
- 7 Not available with HPS.
- 8 Consult factory for availability in Canada.
- 9 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ship as 120V/347V.
- 10 Optional five-tap ballast (120V, 208V, 240V, 277V, 480V; n/a in Canada).
- 11 Optional multi-volt electronic ballast (for compact fluorescent lamps only) capable of operating on any line voltage from 120V-277V.
- 12 Available for compact fluorescent units only; not available with 2/32TRT, 2/42TRT, 57TRT or 70DTT.
- 13 Must be ordered with fixture; cannot be field installed.
- 14 Only available with SR2 & SR3; SR4W (size 2 only).
- 15 Additional architectural colors available; see www.lithonia.com.

Lamp/Fixture Data			
Wattage	Ballast	Lamp type	Base type
<b>High pressure sodium (med/mog/clear)</b>			
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
150	HX-HPF	E17	medium
250	CWA	ET18	mogul
400	CWA	ET18	mogul
<b>Metal halide (med/mog/clear)</b>			
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
150	HX-HPF	E17	medium
175	CWA	E17	medium
250	CWA	BT28	mogul
400	CWA	ED28	mogul
<b>Compact fluorescent (double twin-tube/triple-tube)</b>			
26DTT	electronic, HPF	T4	G240-3
32TRT	electronic, HPF	T4	GX240-3
42TRT	electronic, HPF	T4	GX240-4
57TRT	electronic, HPF	T4	GX240-5
70DTT	electronic, HPF	T4	GX240-6

# WFL

**Intended Use**

For building and wall-mounted applications.

**Features**

**Housing** – Extruded aluminum body with cast end caps is mounted with 1/4" bolts, to formed steel wall bracket. Housing body can be rotated and locked in any position along horizontal axis. Cast aluminum lens frame is hinged and secured by stainless steel fasteners. Closed cell silicone gasket prevents the penetration of dust and moisture. Clear, impact-resistant, tempered glass lens with silkscreen. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Other architectural colors available.

**Optics** – Anodized aluminum reflectors: segmented, specular or hammertone finish. Reflectors are field interchangeable.

**Electrical** – 150W and below utilizes a high reactance, high-power ballast. 175W and above

utilizes a constant-wattage autotransformer ballast. Ballasts are copper wound and 100% factory tested.

**Socket** – Horizontal porcelain socket (WFL2 medium-base, WFL3 mogul-base) with copper alloy, nickel-plated screw shell and center contact. UL Listed 660W, 600V 4KV pulse rated.

**Installation** – Steel mounting plate attaches directly to industry standard junction box. Mounting plate includes provision for attachment independent of junction box (required for WFL3). Optional backbox wall mounting available for surface conduit applications.

**Listings**

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations. IP65 rated.



Example: **WFL2 175M GZ 120 LPI**

**Ordering Information**

Designation	Distribution	Voltage	Options/accessories
<b>High pressure sodium</b>		<b>120</b>	<b>Installed</b>
<b>WFL2 70S</b>	<b>SP</b> Spot	<b>208<sup>5</sup></b>	<b>DF</b> Single fuse, 120V, 277V, 347V (n/a TB)
<b>WFL2 100S</b>	<b>BP</b> Horizontal flood <sup>4</sup>	<b>240<sup>5</sup></b>	<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB)
<b>WFL2 150S</b>	<b>RN</b> Horizontal spot, narrow	<b>277</b>	<b>QRS</b> Quartz restrike system (WFL3 only, 100W max., lamp not included)
<b>WFL3 250S</b>	<b>RM</b> Horizontal spot, medium	<b>347</b>	<b>CR</b> Enhanced corrosion resistance
<b>WFL3 400S</b>	<b>RW</b> Horizontal spot, wide	<b>480<sup>5</sup></b>	<b>CSA</b> CSA Certified
<b>Metal halide</b>		<b>TB<sup>6</sup></b>	<b>PE</b> Photoelectric cell, button type (n/a TB or 480V)
<b>WFL2 70M</b>	<b>HPM</b> Vertical flood, narrow		<b>EC</b> Emergency circuit (WFL3 only, 100W max., lamp not included)
<b>WFL2 100M</b>	<b>HPW</b> Vertical flood, medium		<b>SCWA</b> Super CWA pulse start ballast (n/a HPS, 70M, 100M or 175M)
<b>WFL2 150M<sup>1</sup></b>	<b>FT</b> Forward throw		<b>LC90</b> Lock at 90° for full cutoff
<b>WFL2 175M</b>	<b>GZ</b> Wall grazing		<b>LPI</b> Lamp included
<b>WFL3 200M<sup>2</sup></b>			<b>L/LP</b> Less lamp
<b>WFL3 250M<sup>1</sup></b>			<b>Architectural colors<sup>7</sup></b>
<b>WFL3 320M<sup>2</sup></b>			<b>Standard colors</b>
<b>WFL3 350M<sup>2</sup></b>			<b>DDB</b> Dark bronze (std.)
<b>WFL3 400M<sup>1,3</sup></b>			<b>DWH</b> White
			<b>DBL</b> Black
			<b>Classic colors</b>
			<b>DMB</b> Medium bronze
			<b>DNA</b> Natural aluminum
			<b>DSS</b> Sandstone
			<b>DGC</b> Charcoal gray
			<b>DTG</b> Tennis green
			<b>DBR</b> Bright red
			<b>DSB</b> Steel blue
			<b>Shipped separately<sup>8</sup></b>
			<b>UV</b> Upper visor
			<b>EV</b> Eggcrate visor (black)
			<b>BV</b> Bottom visor
			<b>FV</b> Full visor
			<b>WG</b> Wire guard
			<b>BD</b> Barn door
			<b>HLV</b> Horizontal louver (black)
			<b>VLV</b> Vertical louver (black)
			<b>BVG</b> Bubble vandal guard
			<b>UV/BVG</b> Upper visor and bubble vandal guard
			<b>WFLBBW</b> Surface-mounted back box

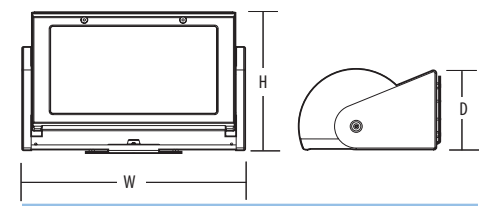
- NOTES:
- 1 May be ordered with SCWA.
  - 2 Must be ordered with SCWA.
  - 3 Requires ED-28 reduced jacket lamp.
  - 4 WFL2 only.
  - 5 Consult factory for availability in Canada.
  - 6 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
  - 7 Additional architectural colors available; see Architectural Colors brochure on www.lithonia.com.
  - 8 May be ordered as an accessory. Door frame must be factory drilled.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	WFL2	WFL3
EPA:	1.3 ft <sup>2</sup> (.12 m <sup>2</sup> )	2.0 ft <sup>2</sup> (.19 m <sup>2</sup> )
Width:	18-1/2 (47)	21-1/2 (54.6)
Height:	6-3/4 (29.8)	8-3/4 (22.3)
Depth:	11-3/4 (29.8)	14-3/4 (37.5)
Max. weight:	29 lbs (13.1 kg)	44 lbs (19.9 kg)



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction  
May depend on optical selection. Consult factory.



Lamp/Fixture Data					
Wattage	NEMA Dist.	Lamp Ballast	Lamp type	Base type	Beam Spread H°xV°
<b>High pressure sodium</b>					
150	SP	HX-HPF	E17	medium	142x127 7x6
150	HPW	HX-HPF	E17	medium	39x12 3x1
400	SP	CWA	ET18	mogul	60x13 4x1
400	HPW	CWA	ET18	mogul	144x140 7x7
<b>Metal halide</b>					
175	SP	CWA	ED17	medium	27x15 2x1
175	HPW	CWA	ED17	medium	147x127 7x6
400	SP	CWA	BT28	mogul	42x17 3x1
400	HPW	CWA	BT28	mogul	146x140 7x7

www.lithonia.com, keyword: WFL

# WST/WSR/ WSQ



### Intended Use

For building- and wall-mounted applications.

### Features

**Housing** – Rugged, die-cast, single-piece housing. Die-cast door frame has 1/8" thick tempered glass lens. Door frame is fully gasketed with one-piece solid silicone. Standard finish is textured dark bronze (DDBT) corrosion-resistant polyester powder with other architectural colors available.

**Optics** – Interchangeable, segmented reflectors for superior uniformity and control. Three full cutoff distributions available: FT (forward throw), MD (medium throw) and WT (wide throw). Four uplight distributions available in WSR only: FTU (forward throw, 10% up), MDU (medium throw, 10% up), WTU (wide throw, 10% up) and MDU5 (up/down, medium throw, 50% up, 50% down). Compact fluorescent MD (medium throw) only.

**Electrical** – HID: 50W MH-150W utilizes a high reactance, high-power factor ballast. 35S and 50S utilizes a reactor normal-power factor ballast. 175W utilizes a constant-wattage auto

transformer ballast. Quick-disconnect plug easily disconnects reflector from ballast. Ballasts are copper wound and 100% factory tested. CFL: compact fluorescent ballast is Class P, electronic, high-power factor, <10% THD with starting temp. of 0° F (-18°C).

**Socket** - HID is porcelain, medium-base copper alloy, nickel-plated screw shell and center contact. (UL Listed 660W, 600V 4KV pulse rated). Fluorescent socket is high-temperature thermoplastic with integral lamp retention clip.

**Installation** – Universal mounting mechanism with integral mounting support allows fixture to hinge down. Bubble level provides correct alignment with each installation.

### Listings

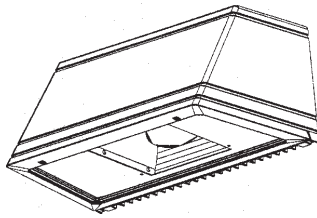
UL Listed suitable for wet locations (damp location listed in lens-up orientation). CSA Certified (see Options). IP65 rated.

### Ordering Information

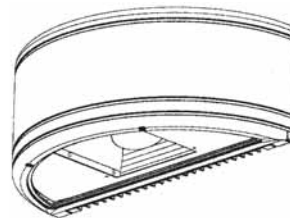
Example: **WST 175M FT 120 SF LPI**

Series	Wattage	Distribution	Voltage	Options/accessories	
WST Trapezoid	High pressure sodium	<u>Downlight distribution</u>	120	<b>Installed</b>	<b>CRT</b> Non-stick protective coating <sup>14</sup>
WSR Half round	35S <sup>1</sup>	<b>FT</b> Forward throw	208 <sup>4</sup>	<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB or TBV)	<b>PE</b> Photoelectric cell-button type (n/a TB or TBV) <sup>16</sup>
WSQ Quartersphere	50S	<b>MD</b> Medium throw (coated lamp standard)	240 <sup>4</sup>	<b>DF</b> Double fuse, 208V, 240V (n/a TB or TBV)	<b>WLU</b> Wet location door for up orientation
	70S	<b>WT</b> Wide throw	277	<b>GMF</b> Internal slow-blow fusing <sup>8,9</sup>	<b>IBS</b> Internal backlight shield <sup>16</sup>
	100S	<u>Uplight distribution</u> <sup>3</sup>	347	<b>EC</b> Emergency circuit (25W max., lamp included)	<b>DFL</b> Diffusing lens
	150S	<b>FTU</b> Forward throw with 10% uplight	TB <sup>5</sup>	<b>DC12</b> Emergency circuit 12 volt (35W lamp included standard) <sup>10</sup>	<b>LPI</b> Lamp included
	<u>Metal halide</u>	<b>MDU</b> Medium throw with 10% uplight (coated lamp standard)	TBV <sup>6</sup>	<b>2DC12</b> Emergency circuit 12 volt ((2) 35W lamps included standard) <sup>10</sup>	<b>L/LP</b> Less lamp
	50M	<b>WTU</b> Wide throw with 10% uplight	MVOLT <sup>7</sup>	<b>DC2012</b> Emergency circuit 12 volt (20W lamp included standard) <sup>10</sup>	<b>UCS</b> Uplight component shield <sup>17</sup>
	70M	<b>MDU5</b> Up/down medium throw with 50% uplight & 50% downlight (coated lamp standard)		<b>2DC2012</b> Emergency circuit 12 volt ((2) 20W lamps included standard) <sup>10</sup>	<b>CSA</b> CSA Certified
	100M			<b>ELDW</b> Emergency battery pack (120V or 277V only) <sup>8,11</sup>	<i>Architectural colors</i> <sup>18</sup>
	150M			<b>ELDWR</b> Remote battery pack ready (by others) for compact fluorescent lamps <sup>12</sup>	<i>Standard textured colors</i>
	175M			<b>ELDWC</b> Cold weather emergency battery pack (120V and 277V only) <sup>8,20</sup>	<b>DDBT</b> Dark bronze (std.)
	<u>Compact fluorescent</u> <sup>2</sup>			<b>QRS</b> Quartz restrike system (100W max., lamp not included) <sup>13</sup>	<b>DSST</b> Sandstone
	26DTT			<b>CR</b> Enhanced corrosion resistance	<b>DNAT</b> Natural aluminum
	2/26DTT				<b>DWHG</b> White
	32TRT				<b>DBLB</b> Black
	2/32TRT				<i>Shipped separately</i>
	42TRT				<b>WSBBW</b> Surface-mounted back box <sup>19</sup>
	2/42TRT				<b>UT5</b> Uptilt 5 degrees <sup>19</sup>
					<b>WSTWG</b> Wire guard (WST) <sup>15</sup>
					<b>WSTVG</b> Vandal guard (WST) <sup>15</sup>
					<b>WSRWG</b> Wire guard (WSR and WSQ) <sup>15</sup>
					<b>WSRVG</b> Vandal guard (WSR and WSQ) <sup>15</sup>

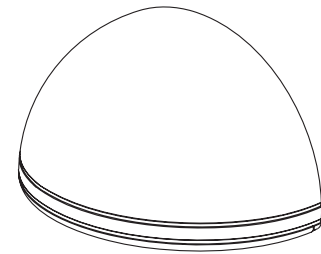
WST



WSR



WSQ



Dimensions are shown in inches (centimeters) unless otherwise noted.

	WST	WSR	WSQ
Width:	16-1/4(41.2)	18(45.7)	18(45.7)
Depth:	9-1/8(23.2)	9(22.8)	9(22.8)
Height:	7-1/4(18.4)	7-1/4(18.4)	9-3/8(23.8)
Max. weight:	30lbs(13.6kg)	30lbs(13.6kg)	30lbs(13.6kg)

NOTES:

- 1 120V only, NPF only
- 2 Only available with MD, MDU and MDU5 distributions.
- 3 Available on WSR fixture only.
- 4 Not available in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V; n/a in Canada). 175M only.
- 7 Optional multi-volt electronic ballast (for compact fluorescent lamps only) capable of operating on any line voltage from 120V-277V.
- 8 Available for compact fluorescent units only.
- 9 Must specify volt, n/a MVOLT or TB.
- 10 Not available with SF, DF or QRS.
- 11 Not available with 2/32TRT or 2/42TRT.
- 12 Battery pack by others and mounted external to luminaire. Pilot light/test switch mounting plate included. Consult factory for availability.
- 13 Not available with compact fluorescent.
- 14 Black finish only.
- 15 Must be ordered with fixture; no field modifications.
- 16 IBS not available with MD, MDU and MDU5 distributions.
- 17 For WSR, inverted orientation, with FTU and WTU distributions only.
- 18 Additional architectural colors available; see www.lithonia.com.
- 19 Must specify finish.
- 20 -20°C to 55°C operation. N/A 2/26DTT, 2/32TRT, 2/42TRT, WSQ or WSR with uplight distribution.

Lamp/Fixture Data			
Wattage	Ballast	Lamp type	Base type
<b>High pressure sodium (med/clear)</b>			
35	RHPF	E17	medium
50	RHPF	E17	medium
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
150	HX-HPF	E17	medium
<b>Metal halide (med/clear)</b>			
50	HX-HPF	E17	medium
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
150	HX-HPF	E17	medium
175	CWA	E17	medium
<b>Compact fluorescent (double twin-tube/triple-tube)</b>			
26DTT	electronic, HPF	T4	G24Q-3
32TRT	electronic, HPF	T4	GX24Q-3
42TRT	electronic, HPF	T4	GX24Q-4

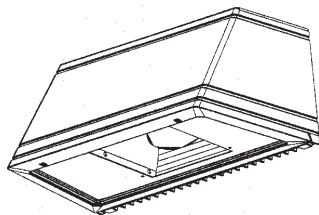


Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

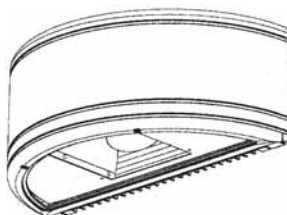
Does not meet with uplight distribution options.



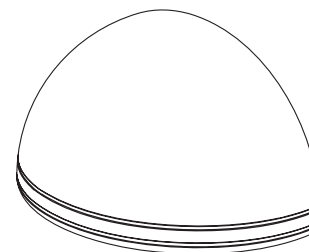
WST



WSR



WSQ



Dimensions are shown in inches (centimeters) unless otherwise noted.

	WST	WSR	WSQ
Width:	16-1/4(41.2)	18(45.7)	18(45.7)
Depth:	9-1/8(23.2)	9(22.8)	9(22.8)
Height:	7-1/4(18.4)	7-1/4(18.4)	9-3/8(23.8)
Max. weight:	30lbs(13.6kg)	30lbs(13.6kg)	30lbs(13.6kg)

NOTES:

- 1 120V only, NPF only
- 2 Only available with MD, MDU and MDU5 distributions.
- 3 Available on WSR fixture only.
- 4 Not available in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V; n/a in Canada). 175M only.
- 7 Optional multi-volt electronic ballast (for compact fluorescent lamps only) capable of operating on any line voltage from 120V-277V.
- 8 Available for compact fluorescent units only.
- 9 Must specify volt, n/a MVOLT or TB.
- 10 Not available with SF, DF or QRS.
- 11 Not available with 2/32TRT or 2/42TRT.
- 12 Battery pack by others and mounted external to luminaire. Pilot light/test switch mounting plate included. Consult factory for availability.
- 13 Not available with compact fluorescent.
- 14 Black finish only.
- 15 Must be ordered with fixture; no field modifications.
- 16 IBS not available with MD, MDU and MDU5 distributions.
- 17 For WSR, inverted orientation, with FTU and WTU distributions only.
- 18 Additional architectural colors available; see www.lithonia.com.
- 19 Must specify finish.
- 20 -20°C to 55°C operation. N/A 2/26DTT, 2/32TRT, 2/42TRT or WSQ.

Lamp/Fixture Data			
Wattage	Ballast	Lamp type	Base type
<b>High pressure sodium (med/clear)</b>			
35	RHPF	E17	medium
50	RHPF	E17	medium
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
150	HX-HPF	E17	medium
<b>Metal halide (med/clear)</b>			
50	HX-HPF	E17	medium
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
150	HX-HPF	E17	medium
175	CWA	E17	medium
<b>Compact fluorescent (double twin-tube/triple-tube)</b>			
26DTT	electronic, HPF	T4	G24Q-3
32TRT	electronic, HPF	T4	GX24Q-3
42TRT	electronic, HPF	T4	GX24Q-4



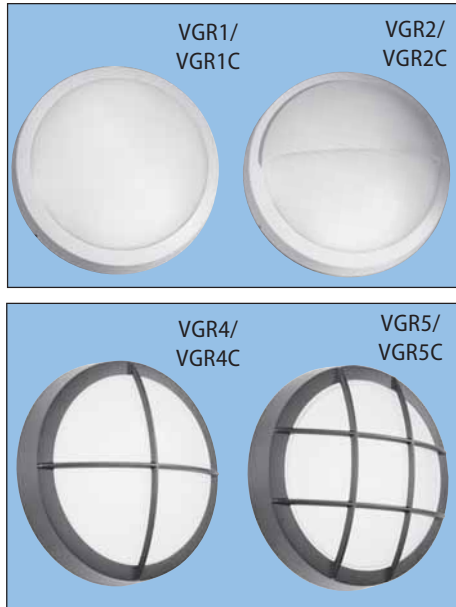
Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

Does not meet with uplight distribution options.

Architectural Building Mounted

# VGR

Gateway®



Intended Use

Architectural luminaires for general illumination in rough service (vandal-resistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

Features

**Bezel** – One-piece, marine-grade, die-cast aluminum, low copper alloy (<1% copper), .125" thick. Standard finish is textured polyester powder coat. Secured to backplate or housing with stainless steel Torx® T10 set screws (two included).

**Housing** – One-piece, die-cast aluminum, low copper alloy (<1% copper) post painted in textured polyester powder coat. For use directly over outlet box or conduit entry (1/2" and 3/4" threaded opening).

**Backplate** – 16-gauge steel, post-painted in black polyester powder coat. Universal keyhole and four-point mounting detail.

**Lens** – Translucent white, injection-molded, UV-stabilized polycarbonate (.125" thick). Smooth exterior for easy cleaning. Interior pattern diffuses light for uniform surface illumination. Optional borosilicate glass lens available (.250" thick).

**Gasket** – Polycarbonate: Perimeter lens gasket is one-piece silicone "O" ring. Glass: Perimeter lens gasket is closed-cell silicone. Pad mounting gasket (closed-cell neoprene) seals backplate or housing to mounting surface.

**Reflectors** – HID reflectors are semi-specular aluminum. Fluorescent reflectors are high-gloss white powder coat finish for maximum light output. Lamps positioned for uniform brightness and illumination.

**Ballast** – HID: High reactance HPF, starting of -20°F (MH) or -40°F (HPS) CFL: Class P, electronic, HPF multi-volt, <10% THD with starting temperature of 0°F. 13TT is electromagnetic, NPF, 120V only.

**Socket** – HID: medium-base 4KV-rated porcelain. CFL: high-temperature thermoplastic with lamp retention clip.

**Lamps** – 35K 4-pin lamp standard for compact fluorescent. MH: reduced UV lamp is standard. Included unless L/LP is specified.

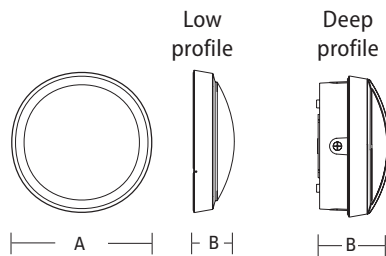
Listings

UL Listed to US and Canadian safety standards (See Options). NOM Certified (see Options). UL Listed for 25°C ambient and wet locations. IP65 rated.

Information also available in Rough Service section pages 400-403.

Ordering Information

Series	Wattage	
	Compact fluorescent	High pressure sodium <sup>3</sup>
<b>Low profile (ADA)</b>		
<b>VGR1</b> 3.7" deep	13TT <sup>2</sup>	50S
<b>VGR2</b> 4" deep	2/13TT <sup>2</sup>	70S
<b>VGR4</b> 4.1" deep <sup>1</sup>	13DTT	Metal halide <sup>3,4</sup>
<b>VGR5</b> 4" deep	2/13DTT	50M
<b>Deep profile<sup>1</sup></b>	18DTT	70M
<b>VGR1C</b> 6.7" deep	2/18DTT	100M
<b>VGR2C</b> 6.9" deep	26DTT	
<b>VGR4C</b> 7" deep	2/26DTT	
<b>VGR5C</b> 6.9" deep	26TRT	
	2/26TRT	
	32TRT	
	2/32TRT <sup>3</sup>	
	42TRT	
	2/42TRT <sup>3</sup>	



Dimensions are shown in inches (centimeters) unless otherwise noted.

	VGR2/		VGR4		VGR5C/	
	VGR1	VGR5	VGR4	VGR1C	VGR5C	VGR4C
A. Diameter:	13.7 (38.8)	13.7 (38.8)	13.7 (38.8)	13.7 (38.8)	13.7 (38.8)	13.7 (38.8)
B. Depth:	3.7 (9.4)	4 (10.2)	4.1 (10.4)	6.7 (17)	6.9 (17.5)	7 (17.8)

Lens	Voltage	Paint finishes <sup>9</sup>
(blank)	120	Standard textured colors
Polycarbonate	208	DWHG White
GL Borosilicate glass	240	DBLB Black
	277	DDBT Dark bronze
	347	DNAT Natural aluminum
	TB <sup>5,6</sup>	DSST Sandstone
	MVOLT <sup>7,8</sup>	Optional textured colors
		DBNH Bronze
		DSPD Dark gray
		DSPE Green
		DSPG Dark red
		DSPF Rust
		DSPH Red
		DSPJ Light gray

- NOTES:
- Not ADA compliant.
  - 120V only.
  - Available with deep profile units only.
  - Low UV lamp is included and recommended for replacement.
  - Multi-tap ballast-US: 120V, 208V, 240V, 277V; Canada: 120V/347V.
  - Available for HID units only.
  - Multi-volt electronic ballast (for DTT and TRT lamps), capable of operating on any line voltage between 120V and 277V.
  - Available for compact fluorescent units only.
  - Additional architectural colors available; see www.lithonia.com.
  - Must specify voltage, n/a MVOLT or TB.
  - Available with 26DTT, 26TRT and 32TRT.
  - 42TRT max. wattage.
  - Maximum wattage lamp included.
  - Available for single-lamp units only.
  - Available with low profile units only.
  - Not available with DS option.
  - Stainless steel Torx® T20 screws with center pin.
  - Color will be the same as the bezel.
  - Lamp included unless L/LP is specified.
  - Must specify color (Example: VGRDS DWHG).

Example: VGR1 42TRT GL 120 DWHG GLR LPI

Options	Lamps <sup>19</sup>
<b>ADCF</b> Advance electronic fluorescent ballast	<b>LPI</b> Lamp(s) included (std.)
<b>MOTCF</b> Osram Sylvania electronic fluorescent ballast	<b>L/LP</b> Less lamp(s)
<b>TUBCF</b> Universal Lighting Technologies electronic fluorescent ballast	
<b>ADEZ</b> Advance Marx X electronic dimming ballast <sup>3,8,10,11</sup>	
<b>DMHL</b> Lutron Hi-Lume electronic dimming ballast <sup>3,8,10,11</sup>	
<b>ELDW</b> Emergency lighting (750 max. lumens) <sup>3,8,10,12</sup>	
<b>2/1</b> Two 1-lamp ballasts	
<b>DS</b> Dual switching	
<b>SF</b> Single fuse, 120V, 277V <sup>6,10</sup>	
<b>DF</b> Double fuse, 208V, 240V <sup>6,10</sup>	
<b>EC</b> Emergency circuit (incandescent, 25W max.) <sup>3,13,14,15</sup>	
<b>GLR</b> Internal fast-blow fusing <sup>8,10</sup>	
<b>GMF</b> Internal slow-blow fusing <sup>8,10</sup>	
<b>NL</b> Night-light (incandescent, 7W max.) <sup>2,3,13,14</sup>	
<b>NLCF</b> Night-light (compact fluorescent 9W max.) <sup>8,13,14,15</sup>	
<b>PE</b> Photoelectric cell <sup>3,10,16</sup>	
<b>QRS</b> Quartz restrike system <sup>6,13</sup>	
<b>TRS</b> Tamper-resistant screws <sup>17</sup>	
<b>VGRDS</b> Decorative shroud <sup>3,18</sup>	
<b>CSA</b> Listed and labeled to comply with Canadian safety standards	
<b>NOM</b> NOM Certified <sup>16</sup>	

Accessories (Order separately)

<b>RK1 T10DRV</b>	Torx® T10 screwdriver for Gateway® set screws.
<b>RK1 T20BIT</b>	Torx® T20 hex-base driver bit for TRS option.
<b>RK1 T20DRV</b>	Torx® T20 screwdriver for TRS option.
<b>VGRDS</b>	Decorative shroud <sup>20</sup>

# VGO

Gateway®

### Intended Use

Architectural luminaires for general illumination in rough service (vandal-resistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

### Features

**Bezel** – One-piece, marine grade die-cast aluminum, low copper alloy (<1% copper), .125" thick. Standard finish is textured polyester powder coat. Secured to housing or backplate with stainless steel Torx® T10 set screws (two included).

**Housing** – One-piece, marine grade die-cast aluminum, low copper alloy (<1% copper), post-painted in polyester powder coat. For use directly over outlet box or conduit entry (1/2" and 3/4" threaded opening).

**Backplate** – 16-gauge steel, post-painted in black polyester powder coat. Four-point mounting detail.

**Lens** – Translucent white, injection-molded, UV-stabilized polycarbonate (.125" thick). Smooth exterior for easy cleaning. Interior pattern diffuses light for uniform surface illumination. Optional borosilicate glass lens available (.250" thick)

**Gasket** – Polycarbonate: Perimeter lens gasket is one-piece silicone "O" ring. Glass: Perimeter lens gasket is closed-cell silicone. Pad mounting gasket (closed-cell neoprene) seals backplate or housing to mounting surface.

**Reflectors** – High-gloss white powder coat finish for maximum light output. (Lamps positioned for uniform brightness and illumination).

**Ballast** – HID: High reactance, HPF, starting temperature. -20°F (MH) or -40°F (HPS). CFL: Class P, Electronic, HPF multi-volt <10% THD. Starting temperature 0°F.

**Socket** – HID: medium-base 4KV-rated porcelain. CFL: high-temperature thermoplastic with lamp retention clip.

### Listings

UL Listed to US and Canadian safety standards (see Options). NOM Certified (see Options). UL Listed for 25°C ambient and wet locations. IP65 rated.

Information also available in Rough Service section pages 400-403.



Example: **VG05C 50S 120 DSPD PE LPI**

### Ordering Information

Series	Wattage	Lens	Voltage	Paint finishes <sup>10</sup>	Options	Lamps <sup>16</sup>
<b>Low profile (ADA)</b>	<b>Compact fluorescent<sup>2</sup></b>	(blank) Polycarbonate <b>GL</b> Borosilicate glass <sup>5</sup>	<b>120</b>	<b>Standard textured colors</b>	<b>ADCF</b> Advance electronic fluorescent ballast	<b>LPI</b> Lamp included (std.)
<b>VG01</b> 3.7" deep	<b>13TT</b>		<b>208</b>	<b>DWHG</b> White	<b>MOTCF</b> Osram Sylvania electronic fluorescent ballast	
<b>VG02</b> 4" deep	<b>13DTT</b>		<b>240</b>	<b>DBLB</b> Black	<b>TUBCF</b> Universal Lighting Technologies electronic fluorescent ballast	<b>L/LP</b> Less lamp
<b>VG03</b> 4" deep	<b>18DTT</b>		<b>277</b>	<b>DDBT</b> Dark bronze	<b>ADEZ</b> Advance Mark X electronic dimming ballast <sup>3,9,11,12</sup>	
<b>VG04</b> 4" deep <sup>1</sup>	<b>26DTT</b>		<b>347</b>	<b>DNAT</b> Natural aluminum	<b>DMHL</b> Lutron Hi-lume electronic dimming ballast <sup>3,9,11,12</sup>	
<b>VG05</b> 4" deep	<b>26TRT</b>		<b>TB</b> <sup>6,7</sup>	<b>DSST</b> Sandstone	<b>SF</b> Single fuse, 120V, 277V <sup>7,11</sup>	
<b>Deep profile</b>	<b>32TRT</b>		<b>MVOLT</b> <sup>8,9</sup>	<b>Optional textured colors</b>	<b>DF</b> Double fuse, 208V, 240V <sup>7,11</sup>	
<b>VG01C</b> 6.7" deep	<b>42TRT<sup>3</sup></b>			<b>DBNH</b> Bronze	<b>EC</b> Emergency circuit (incandescent, 25W max.) <sup>3,13</sup>	
<b>VG02C</b> 6.9" deep	<b>High pressure sodium<sup>3</sup></b>			<b>DSPD</b> Dark gray	<b>GLR</b> Internal fast-blow fusing <sup>9,11</sup>	
<b>VG03C</b> 6.9" deep	<b>50S</b>			<b>DSPE</b> Green	<b>GMF</b> Internal slow-blow fusing <sup>9,11</sup>	
<b>VG04C</b> 7" deep	<b>Metal halide<sup>3,4</sup></b>			<b>DSPG</b> Dark red	<b>NL</b> Night-light (incandescent, 7W max.) <sup>2,3,13</sup>	
<b>VG05C</b> 6.9" deep	<b>50M</b>			<b>DSPF</b> Rust	<b>PE</b> Photoelectric cell <sup>3,11</sup>	
				<b>DSPH</b> Red	<b>QRS</b> Quartz restrrike system <sup>7,13</sup>	
				<b>DSPJ</b> Light gray	<b>TRS</b> Tamper-resistant screws <sup>14</sup>	
					<b>CSA</b> Listed and labeled to comply with Canadian safety standards	
					<b>NOM</b> NOM Certified <sup>15</sup>	

NOTES:

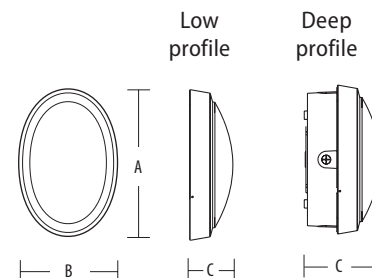
- Not ADA compliant.
- 120V only.
- Available with deep profile units only.
- Low-UV lamp included (recommended for replacement).
- Not available with TRT lamps in low-profile units.
- Multi-tap ballast-US: 120V, 208V, 240V, 277V; CA: 120V/347V.
- Available for HID units only.
- Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any line voltage between 120V and 277V.
- Available for compact fluorescent units only.
- Additional architectural colors available; see www.lithonia.com.
- Must specify voltage, n/a MVOLT or TB.
- Available with 26DTT and TRT lamps; excludes 42TRT.
- Maximum wattage lamp included.
- Stainless steel Torx® T20 screws with center reject pin.
- Available with low profile units only.
- Lamp included unless L/LP is specified.

### Accessories (Order separately)

- RK1 T10DRV** Torx® T10 screwdriver for Gateway® set screws.
- RK1 T20BIT** Torx® T20 hex-base driver bit for TRS option.
- RK1 T20DRV** Torx® T20 screwdriver for TRS option.

Dimensions are shown in inches (centimeters) unless otherwise noted.

	VG03/		VG04/		VG01C/		VG02C/		VG05C/		VG04C/	
	VG01	VG02	VG03	VG04	VG01C	VG02C	VG05C	VG04C	VG01	VG02	VG03	VG04
A. Height:	13.7 (34.8)	9.4 (23.8)	13.7 (34.8)	13.7 (34.8)	13.7 (34.8)	9.4 (23.8)	13.7 (34.8)	13.7 (34.8)	13.7 (34.8)	9.4 (23.8)	13.7 (34.8)	13.7 (34.8)
B. Width:	9.4 (23.8)	13.7 (34.8)	9.4 (23.8)	9.4 (23.8)	9.4 (23.8)	9.4 (23.8)	13.7 (34.8)	9.4 (23.8)	9.4 (23.8)	13.7 (34.8)	9.4 (23.8)	9.4 (23.8)
C. Depth:	3.7 (9.4)	4.0 (10.2)	4.0 (10.2)	4.1 (10.4)	6.7 (17.0)	6.9 (17.5)	6.9 (17.5)	7.0 (17.8)	3.7 (9.4)	4.0 (10.2)	4.0 (10.2)	4.1 (10.4)



Die-Cast Wall Packs, Glass Refractor

# TWH



Intended Use

For outdoor storage areas, warehouse and factory perimeters and loading docks. **Contact with a direct forceful spray of water during operation can result in glass breakage. Not recommended for car wash applications.**

Features

Housing – Rugged, die-cast aluminum housing. Corrosion-resistant captive external hardware includes slotted hex-head fasteners. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Other architectural colors available.

Optics – Reflector is specular anodized aluminum. Refractor is prismatic borosilicate glass. Lens is sealed and gasketed to inhibit entrance of outside contaminants.

Electrical – 70-150W HPS and 100-150M: High-reactance, high-power factor. All others: Constant-wattage autotransformer. Ballasts are

copper wound and 100% factory tested. UL Listed. Electrical components mounted in hinged front cover that includes primary and secondary electrical disconnect.

Socket – Glazed porcelain (mogul-based; 175M and above; medium based: 150M, 150S and below), horizontally oriented with copper alloy, nickel-plated screw shell and center contact. UL Listed 660W, 600V for medium base; 1500W, 600V for mogul base. 4KV pulse rated.

Installation – Back housing is separated from front housing, eliminating ballast weight and promoting easy handling. Top 3/4" threaded wiring access. Back access through removable 3/4" knockout. Mount on any flat, non-combustible vertical surface.

Listings

UL Listed (standard). CSA or NOM Certified (see Options). UL Listed for wet locations. IP65 rated (250W and below) or IP54 rated (400W).

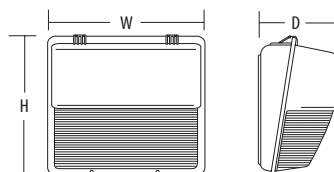
Ordering Information

Designation	Voltage	Options
<b>High pressure sodium</b>		
TWH 70S	120	<b>Installed</b>
TWH 100S	208 <sup>6</sup>	SF Single fuse, 120V, 277V, 347V (n/aTB or TBV)
TWH 150S	277	DF Double fuse, 208V, 240V, 480V (n/a TB or TBV)
TWH 200S	347	EC Emergency circuit <sup>10,11</sup>
TWH 250S	480 <sup>7</sup>	QRS Quartz restrike system <sup>10,11</sup>
TWH 400S	TB <sup>8</sup>	CR Enhanced corrosion resistance
<b>Metal halide</b>		
TWH 100M	TBV <sup>9</sup>	CRT Non-stick protective coating <sup>12</sup>
TWH 150M <sup>1</sup>		PE Photoelectric cell – button type (n/a TB, TBV or 480)
TWH 175M		PER NEMA twist-lock receptacle <sup>13</sup>
TWH 200M <sup>2</sup>		FS Full shield
TWH 250M <sup>1</sup>		TWHWG Wireguard <sup>14</sup>
TWH 320M <sup>2</sup>		TWHVG Vandal guard <sup>14</sup>
TWH 350M <sup>2</sup>		SCWA Super SCWA pulse start ballast (150M-400M only; n/a 175M )
TWH 400M <sup>1,3</sup>		RHP Reactor high-power factor ballast (HPS 150W & below only)
<b>Mercury vapor</b>		
TWH 100H		RNP Reactor normal-power factor ballast (HPS 150W & below only, 120V only)
TWH 175H		XHP Reactance high-power factor ballast (HPS 150W & below only)
TWH 250H		CSA CSA Certified <sup>15</sup>
<b>Low pressure sodium</b>		
TWH 35L <sup>4</sup>		NOM NOM Certified (consult factory)
<b>Incandescent</b>		
TWH 300I <sup>5,10</sup>		LPI Lamp included <sup>16</sup>
		L/LP Less lamp
		TP Tamperproof fasteners

For optional architectural colors, see page 543.

Dimensions are shown in inches (centimeters) unless otherwise noted.

- Height: 15-1/4 (40)
- Width: 16-1/4 (41.3)
- Depth: 8 (20.3)
- Weight: 26-42 lbs (12-19kg)



Lamp/Fixture Data <sup>18</sup>			
Wattage	Ballast	Lamp type	Base type
<b>High pressure sodium (med/mog/clear)</b>			
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
150	HX-HPF	E17	medium
250	CWA	BT28	mogul
400	CWA	BT28	mogul
<b>Metal halide (med(150)/mog/clear)</b>			
150	HX-HPF	E17	medium
175	CWA	BT28	mogul
250	CWA	BT28	mogul
400	CWA	ED or BT28	mogul

Example: TWH 250S TB LPI

Accessories	(Order separately)
RK1 PEB1	Photoelectric control kit, 120V
RK1 PEB2	Photoelectric control kit, 208V, 240V, 277V
RK1 PEB1 CSA	Photoelectric control kit, 120V
RK1 PEB3 CSA	Photoelectric control kit, 347V
RK1 TWHGL FS	Field installable full shield, for cutoff
PE1	NEMA twist-lock photocontrol, 120V, 208V, 240V <sup>17</sup>
PE3	NEMA twist-lock photocontrol, 347V <sup>17</sup>
PE4	NEMA twist-lock photocontrol, 480V <sup>17</sup>
PE7	NEMA twist-lock photocontrol, 277V <sup>17</sup>

NOTES:

- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA.
- 3 Requires ED or BT28 reduced jacket lamp.
- 4 Not available with TB.
- 5 120V only, A21 lamp.
- 6 Consult factory for availability in Canada.
- 7 Consult factory for availability in Canada, n/a 150M.
- 8 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 9 Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V).
- 10 Lamp not included.
- 11 Quartz lamp wattage not to exceed ballast wattage rating.
- 12 Black finish only.
- 13 Photocell not included.
- 14 Requires factory modification.
- 15 Not available with TBV.
- 16 Not available with incandescent.
- 17 PER must be ordered with fixture.
- 18 Other ballast types available.

**lightquick<sup>®</sup> XD**  
Express delivery products.

See page 11 for details about LightQuick XD.

Description
<b>TWH 250M TB LPI</b>
<b>TWH 400M TB LPI</b>

# TWP

### Intended Use

For entrances, loading docks, walkways and vehicle ramps. **Use in car washes will result in discoloration of the polycarbonate lens over time. This will become a maintenance requirement.**

### Features

**Housing** – Rear housing is rugged, die-cast aluminum. Corrosion-resistant, captive external hardware includes slotted hex-head and tamperproof fasteners. Finish is dark bronze (DDB) corrosion-resistant polyester powder.

**Optics** – Reflector is aluminum, finished in white enamel. Front housing and refractor are one-piece, injection-molded, UV-stabilized polycarbonate. Standard finish: front cover has an opaque lower portion and dark bronze painted upper portion; back housing is dark bronze polyester. Refractor is sealed and gasketed to inhibit the entrance of outside contaminants.

**Electrical** – HPS, 70-150M: High-reactance, high-power factor (XHP). 175MH and MV: Constant-wattage autotransformer. Ballast is copper wound and 100% factory tested. UL Listed. Electrical components mounted on back housing.

**Socket** – Glazed porcelain (mogul-based; 175W; medium based: 150W and below), horizontally oriented with copper alloy, nickel-plated screw shell and center contact. UL Listed 660W, 600V for medium base; 1500W, 600V for mogul base. 4KV pulse rated.

**Installation** – Top 3/4" threaded wiring access. Back access through 3/4" opening. For feed-thru wiring, use conduit tee (not included). Mount on any flat, non-combustible vertical surface.

### Listings

UL Listed (standard). CSA or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.



Example: **TWP 175M TB LPI**

### Ordering Information

Designation	Voltage
<u>High pressure sodium</u>	
<b>TWP 35S</b> <sup>1</sup>	<b>208</b> <sup>5</sup>
<b>TWP 50S</b> <sup>2</sup>	<b>240</b> <sup>5</sup>
<b>TWP 70S</b>	<b>277</b>
<b>TWP 100S</b>	<b>347</b>
<b>TWP 150S</b>	<b>480</b> <sup>5</sup>
<u>Metal halide</u>	
<b>TWP 70M</b>	<b>TB</b> <sup>6</sup>
<b>TWP 100M</b>	
<b>TWP 150M</b>	
<b>TWP 175M</b>	
<u>Mercury vapor</u>	
<b>TWP 100H</b>	
<b>TWP 175H</b>	
<u>Low pressure sodium</u>	
<b>TWP 35L</b> <sup>2</sup>	
<u>Incandescent</u>	
<b>TWP 200I</b> <sup>3,4</sup>	

Options
<b>Installed</b>
<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB)
<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB)
<b>EC</b> Emergency circuit <sup>4,7</sup>
<b>QRS</b> Quartz restrrike system <sup>4,7</sup>
<b>CR</b> Enhanced corrosion resistance (rear housing only)
<b>CRT</b> Non-stick protective coating <sup>8</sup>
<b>PE</b> Photoelectric cell, button type (n/a TB or 480)
<b>LPI</b> Lamp included
<b>L/LP</b> Less lamp
<b>FS</b> Full shield
<b>WG</b> Wireguard
<b>SCWA</b> Super CWA pulse start ballast (150M only)
<b>RHP</b> Reactor high-power factor ballast (HPS only)
<b>RNP</b> Reactor normal-power factor ballast (HPS only)
<b>CSA</b> CSA Certified
<b>NOM</b> NOM Certified (consult factory)
<b>Architectural colors (optional)</b>
<b>DNA</b> Natural aluminum
<b>DBL</b> Black
<b>DMB</b> Medium bronze
<b>DWH</b> White
<b>DSS</b> Sandstone

Accessories	(Order separately)
<b>RK1 PEB1</b>	Photoelectric control kit, 120V
<b>RK1 PEB2</b>	Photoelectric control kit, 208V, 240V and 277V.
<b>RK1 PEB1 CSA</b>	Photoelectric control kit, 120V
<b>RK1 PEB3 CSA</b>	Photoelectric control kit, 347V
<b>RK1 TWPFA FS</b>	Field installable shield for cutoff

Lamp/Fixture Data <sup>9</sup>			
Wattage	Ballast	Lamp type	Base type
<u>High pressure sodium (med/clear)</u>			
35	RHP	E17	medium
50	RHP	E17	medium
70	XHP	E17	medium
100	XHP	E17	medium
150	XHP	E17	medium
<u>Metal halide (med(70/100/150)/mogul(175)/clear)</u>			
50	HX-HPF	E17	medium
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
150	HX-HPF	E17	medium
175	CWA	BT28	mogul
<u>Mercury vapor (mog/coated)</u>			
100	CWA	E17	medium
175	CWA	BT/ED28	mogul
<u>Low pressure sodium (D.C. bay/clear)</u>			
35	HPF-LAG	T17	medium

- NOTES:
- 120V only.
  - Not available with 480V or TB.
  - 120V only. A21 lamp for 2001.
  - Lamp not included.
  - Consult factory for availability in Canada; n/a 35S, 50S and 150M.
  - Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
  - Quartz lamp wattage not to exceed ballast wattage rating.
  - Black finish on rear housing only.
  - Other ballast types available.

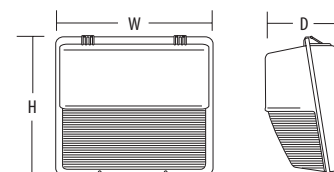
**lightquick<sup>®</sup> XD**  
Express delivery products.

See page 11 for details about LightQuick XD.

Description
<b>TWP 175M TB LPI</b>

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Height	15-7/16 (39.2)
Width	16-1/8 (41)
Depth	7-3/4 (19.7)
Weight	16 lbs (7 kg)



www.lithonia.com, keyword: TWP

Mini Wall Packs, Polycarbonate Refractor

# TWA

Contour®

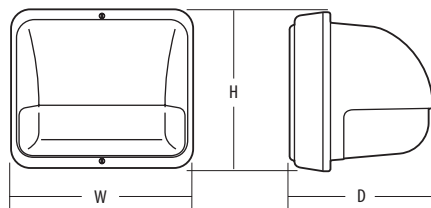


Ordering Information

Designation	Voltage
<b>High pressure sodium</b>	<b>120</b>
TWA 35S <sup>1</sup>	208 <sup>4</sup>
TWA 50S <sup>2</sup>	240 <sup>4</sup>
TWA 70S <sup>3</sup>	277
TWA 100S <sup>3</sup>	347
<b>Metal halide</b>	<b>TB<sup>5</sup></b>
TWA 50M	MVOLT <sup>6</sup>
TWA 70M	
TWA 100M	
<b>Compact fluorescent</b>	
TWA 22DTT (2-pin)	
TWA 26DTT (4-pin)	
TWA 28DTT (2-pin)	
TWA 32TRT (4-pin)	
TWA 42TRT (4-pin)	

Dimensions are shown in inches (centimeters) unless otherwise noted.

Height: 10(25.4)  
 Width: 11-1/2(29.2)  
 Depth: 8-15/16(22.7)  
 Max. weight: 14lbs(6.4kg)



Intended Use

For entrances, stairwells, corridors and other pedestrian areas. **Use in car washes will result in discoloration of the polycarbonate lens over time. This will become a maintenance requirement.**

Features

**Housing** – Rear housing is rugged, die-cast aluminum. Front cover is one-piece, UV-resistant, injection-molded polycarbonate, internally painted. Captive external hardware is treated for corrosion resistance and includes slotted hex-head and tamper-proof fasteners. Finish is dark bronze (DDB) corrosion-resistant polyester powder.

**Optics** – Front housing and refractor are one-piece, injection-molded, UV-stabilized polycarbonate. High-performance optical system consists of specular anodized segmented reflector and computer-designed prism pattern. Standard finish is dark bronze polyester enamel. Front cover sealed with one-piece, high-temperature silicone gasket to inhibit entrance of outside contaminants.

**Electrical** – MH: High-reactance, high-power factor standard. HPS: Reactor normal power factor standard, HPF available. UL Listed. Electrical components are mounted to the cast-aluminum housing, promoting maximum heat dissipation. Fluorescent ballasts are magnetic NPF (22 & 28 DTT) or electronic HPF (26 DTT & TRT).

**Socket** – HID is porcelain, horizontally oriented, medium-base socket with copper alloy, nickel-plated screw shell and center contact. (UL Listed 660W, 600V and 4KV pulse rated.) Fluorescent is 2-pin (DTT) or 4-pin (TRT), positive latching thermoplastic.

**Installation** – Top 1/2" threaded wiring access. Back access through 3/4" opening. For feed-thru wiring, use conduit tee (not included). Mount on any flat, non-combustible vertical surface.

Listings

UL Listed (standard). CSA or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.

Example: TWA 100M 120 LPI

Accessories	(Order separately)
<b>RK1 PEB1</b>	Photoelectric control kit, 120V
<b>RK1 PEB1 CSA</b>	Photoelectric control kit, 120V
<b>RK1 PEB2</b>	Photoelectric control kit, 208V, 240V, 277V
<b>RK1 PEB3 CSA</b>	Photoelectric control kit, 347V
<b>TWAWG</b>	Wireguard

Lamp/Fixture Data			
Wattage	Ballast	Lamp type	Base type
<b>High pressure sodium (med/clear)</b>			
35	RNPF	E17	medium
50	RNPF	E17	medium
70	RNPF	E17	medium
100	RNPF	E17	medium
<b>Metal halide (med/70/100/150)/mog(175)/clear</b>			
50	HX-HPF	E17	medium
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
<b>Fluorescent (double twin-tube/triple-tube)</b>			
22DTT	magnetic, NPF	T4	GX32D-2
26DTT	electronic, HPF	T4	GX32D-3
28DTT	magnetic, NPF	T4	GX32D-3
32TRT	electronic, HPF	T4	GX24Q-3
42TRT	electronic, HPF	T4	GX24Q-3

Options	
<b>Installed</b>	
<b>GMF</b>	GMF internal slow-blow fusing <sup>7</sup>
<b>SF</b>	Single fuse, 120V, 277V, 347V <sup>8</sup>
<b>DF</b>	Double fuse, 208V, 240V <sup>8</sup>
<b>EC</b>	Emergency circuit <sup>9,10</sup>
<b>QRS</b>	Quartz restrrike system <sup>9,10</sup>
<b>CR</b>	Enhanced corrosion resistance (rear housing only)
<b>CRT</b>	Non-stick protective coating (rear housing only) <sup>11</sup>
<b>PE</b>	Photocell (button type, n/a TB)
<b>LPI</b>	Lamp included
<b>L/LP</b>	Less lamp
<b>XHP</b>	High power factor ballast (HPS only)
<b>CSA</b>	CSA Certified
<b>NOM</b>	NOM Certified (consult factory)
<b>Architectural colors (optional)</b>	
<b>DNA</b>	Natural aluminum
<b>DBL</b>	Black
<b>DMB</b>	Medium bronze
<b>DWH</b>	White
<b>DSS</b>	Sandstone

- NOTES:
- 120V only.
  - 120V or 277V only.
  - 120VR-NPF is standard, 208V, 240V, 277V, 347V and TB are high-reactance high power factor.
  - Consult factory for availability in Canada.
  - Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.

- Optional multi-volt electronic ballast (for compact fluorescent) capable of operating any line voltage from 120V-277V.
- Available with CF only, n/a MVOLT.
- Not available with multi-tap ballast.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating; n/a compact fluorescent.
- Black finish only.

## Cutoff Mini Wall Packs, Polycarbonate Refractor

### Intended Use

For entrances, stairwells, corridors and other pedestrian areas. **Use in car washes will result in discoloration of the polycarbonate lens over time. This will become a maintenance requirement.**

### Features

**Housing** – Rear housing is rugged, die-cast aluminum. Front cover is one-piece, UV-resistant, injection-molded polycarbonate, internally painted. Captive external hardware is treated for corrosion resistance and includes slotted hex-head and tamper-proof fasteners. Finish is dark bronze (DDB) corrosion-resistant polyester powder.

**Optics** – Front housing and refractor are one-piece, injection-molded, UV stabilized polycarbonate. One-piece, die-formed reflector is diffused aluminum. Refractor is clear polycarbonate, providing **IES cutoff distribution** and maximum lateral light output. Standard finish is dark bronze polyester enamel. Front cover sealed with one-piece, high temperature silicone gasket to inhibit entrance of outside contaminants.

**Electrical** – MH: High-reactance, high-power factor standard. HPS: Reactor normal power factor standard. HPF available. UL Listed. Electrical components mounted to the cast aluminum housing, promoting maximum heat dissipation. Fluorescent ballasts are magnetic NPF (22 & 28 DTT) or electronic HPF (26 DTT & TRT).

**Socket** – HID is porcelain, horizontally oriented, medium-base socket with copper alloy, nickel-plated screw shell and center contact. (UL Listed 660W, 600V and 4KV pulse rated.) Fluorescent is 2-pin (DTT) or 4-pin (TRT), positive latching thermoplastic.

**Installation** – Top 1/2" threaded wiring access. Back access through 3/4" opening. For feed-thru wiring, use conulet tee (not included). Mount on any flat, non-combustible vertical surface.

### Listings

UL Listed (standard). CSA or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.

# TWAC

Contour®



Example: **TWAC 100S 120 LPI**

### Ordering Information

Designation	Voltage
<u>High pressure sodium</u>	<b>120</b>
<b>TWAC 35S<sup>1</sup></b>	<b>208<sup>4</sup></b>
<b>TWAC 50S<sup>2</sup></b>	<b>240<sup>4</sup></b>
<b>TWAC 70S<sup>3</sup></b>	<b>277</b>
<b>TWAC 100S<sup>3</sup></b>	<b>347</b>
<u>Metal halide</u>	<b>TB<sup>5</sup></b>
<b>TWAC 50M</b>	<b>MVOLT<sup>6</sup></b>
<b>TWAC 70M</b>	
<b>TWAC 100M</b>	
<u>Compact fluorescent</u>	
<b>TWAC 22DTT</b> (2-pin)	
<b>TWAC 26DTT</b> (4-pin)	
<b>TWAC 28DTT</b> (2-pin)	
<b>TWAC 32TRT</b> (4-pin)	
<b>TWAC 42TRT</b> (4-pin)	

Options	
<u>Installed</u>	
<b>SF</b>	Single fuse, 120V, 277V, 347V <sup>7</sup>
<b>DF</b>	Double fuse, 208V, 240V <sup>7</sup>
<b>GMF</b>	Internal slow-blow fusing <sup>8</sup>
<b>XHP</b>	High power factor ballast (HPS only)
<b>EC</b>	Emergency circuit <sup>9,10</sup>
<b>QRS</b>	Quartz restrike system <sup>9,10</sup>
<b>CR</b>	Enhanced corrosion resistance (rear housing)
<b>CRT</b>	Non-stick protective coating (rear housing) <sup>11</sup>
<b>CSA</b>	CSA Certified
<b>NOM</b>	NOM Certified (consult factory)
<b>PE</b>	Photocell (button type) <sup>7</sup>
<b>LPI</b>	Lamp included
<b>L/LP</b>	Less lamp
<b>DC12</b>	Emergency circuit 12V. 35W lamp included <sup>12</sup>
<b>2DC12</b>	Emergency circuit 12V. 2/35W lamps included <sup>12</sup>
<b>DC2012</b>	Emergency circuit 12V. 20W lamps included <sup>12</sup>
<b>2DC2012</b>	Emergency circuit 12V. 2/20W lamps included <sup>12</sup>
<u>Architectural colors (optional)</u>	
<b>DNA</b>	Natural aluminum
<b>DBL</b>	Black
<b>DMB</b>	Medium bronze
<b>DWH</b>	White
<b>DSS</b>	Sandstone

Accessories	(Order separately)
<b>RK1 PEB1</b>	Photoelectric control kit, 120V
<b>RK1 PEB1 CSA</b>	Photoelectric control kit, 120V
<b>RK1 PEB2</b>	Photoelectric control kit, 208V, 240V or 277V
<b>RK1 PEB3 CSA</b>	Photoelectric control kit, 347V
<b>TWAWG</b>	Wireguard

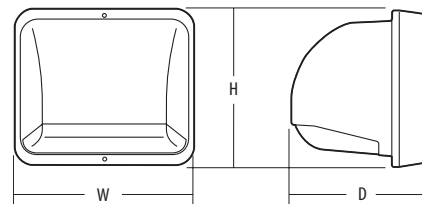
Lamp/Fixture Data			
Wattage	Ballast	Lamp type	Base type
<u>High pressure sodium (med/clear)</u>			
35	RNPF	E17	medium
50	RNPF	E17	medium
70	RNPF	E17	medium
100	RNPF	E17	medium
<u>Metal halide (med(70/100/150)/mog(175)/clear)</u>			
50	HX-HPF	E17	medium
70	HX-HPF	E17	medium
100	HX-HPF	E17	medium
<u>Fluorescent (double twin-tube/triple-tube)</u>			
22DTT	magnetic, NPF	T4	GX32D-2
26DTT	electronic, HPF	T4	GX32D-3
28DTT	magnetic, NPF	T4	GX32D-3
32TRT	electronic, HPF	T4	GX24Q-3
42TRT	electronic, HPF	T4	GX24Q-3

#### NOTES:

- 120V only.
- 120V or 277V only.
- 120V R-NPF is standard, 208/240/277/347 and TB are high reactance high power factor.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Optional multi-volt electronic ballast (for compact fluorescent) capable of operating any line voltage from 120V-277V.
- Not available with multi-tap ballast.
- Available with CF only, n/a MVOLT.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- Black finish only.
- HID only, n/a QRS, EC or NOM.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Height:	10(25.4)
Width:	11-1/2(29.2)
Depth:	8-15/16(22.7)
Weight:	10lbs (4.53kg)



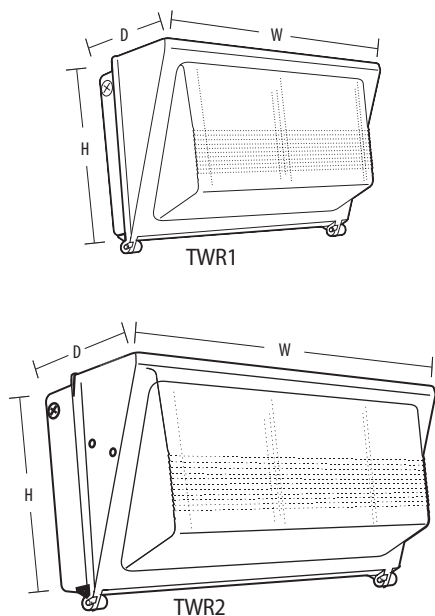
Die-Cast Wall Packs, Glass Refractor

# TWR



Ordering Information

Designation	Voltage
<u>High pressure sodium</u>	
TWR1 70S	TB <sup>1</sup>
TWR1 100S	120/347 <sup>2</sup>
TWR1 150S	120
TWR2 250S	MVOLT
TWR2 400S	
<u>Metal halide</u>	
TWR1 70M	
TWR1 100M	
TWR1 175M	
TWR2 250M	
TWR2 400M	
<u>Compact fluorescent</u>	
TWR1 2/42TRT <sup>3</sup>	



Intended Use

For mounting above entryways and loading docks. **Contact with a direct forceful spray of water during operation can result in glass breakage. Not recommended for car wash applications.**

Features

**Housing** – Rugged, die-cast aluminum back housing and hinged door frame. Castings are sealed with a one-piece gasket to inhibit the entrance of external contaminants. Finish is bronze polyester powder paint standard.

**Optics** – (TWR1, TWR2) Refractor is prismatic borosilicate glass. Reflector is die-formed anodized stippled aluminum. TWR1 medium-base lamp and TWR2 mogul-base lamp included in carton as standard.

**Electrical** – Quad-tap, constant wattage autotransformer (175M-400M; 250S-400S). High reactance, high power factor (70S-150S; 70M-150M). Ballast is copper wound and 100% factory tested.

**Installation** – Housing configured for mounting directly over a standard 4" outlet box or for surface wiring via any of three convenient 3/4" threaded conduit entry hubs.

Listings

UL Listed standard to US and Canadian safety standards. CSA Certified (see Options). UL/C-UL Listed for wet locations.

Example: TWR1 70S TB LPI

Options
LPI Lamp included (std.)
CSA CSA Certified
PE Photoelectric cell button type <sup>4</sup>

Accessories	(Order separately)
TWR1WG	Wireguard
TWR2WG	Wireguard
RK1 TWR1FA	Lens repair kit
RK1 TWR2FA	Lens repair kit

Dimensions are shown in inches (centimeters) unless otherwise noted.

	TWR1	TWR2 250W	TWR2 400W
Height:	9(22.86)	9-1/4(23.50)	9-1/4(23.50)
Width:	13(33.02)	17-7/8(45.40)	17-7/8(45.40)
Depth:	7-3/8(18.75)	9-3/8(23.81)	12-1/2(31.75)
Max. weight:	18lbs (8.1kg)	26lbs (11.8kg)	31lbs (14.07kg)

NOTES:

- 1 TBis 120V, 208V, 240V, 277V.
- 2 Only available with CSA.
- 3 Available with MVOLT or 120V with PE only.
- 4 Available with 175M, 250M, 400M, 2/42TRT (120 volt) only. Consult factory for other wattage/voltage availability.



## Cast Wall Packs, Glass Refractor

### Intended Use

For building and wall mounted applications. **Contact with a direct forceful spray of water during operation can result in glass breakage. Not recommended for car wash applications.**

### Features

**Housing** – Rugged, die-cast aluminum back housing and hinged door frame. Castings are sealed with a one-piece gasket to inhibit the entrance of external contaminants. Finish is bronze polyester powder paint standard.

**Optics** – Tempered glass lens and one-piece anodized aluminum reflector provide IES cutoff distribution. Optional full cutoff visor available. TWR1C medium-base lamp and TWR2C mogul-base lamp included in carton as standard.

**Electrical** – Quad-tap, constant wattage auto

transformer (175M-400M; 250S-400S). High reactance, high power factor (70S-150S; 70M-150M). Ballast is copper wound and 100% factory tested.

**Installation** – Housing configured for mounting directly over a standard 4" outlet box or for surface wiring via any of three convenient 3/4" threaded conduit entry hubs.

### Listings

UL Listed to US and Canadian safety standards. CSA Certified (see Options). UL/C-UL Listed for wet locations.



TWR2C shown with full cutoff visor; also available with TWR1C.

# TWRC



Example: **TWR1C 175M TB LPI**

### Ordering Information

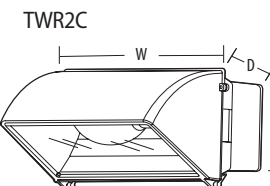
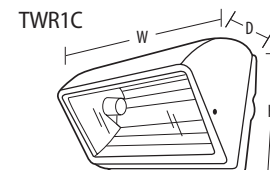
Designation		Voltage
High pressure sodium	Metal halide	<b>TB<sup>1</sup></b>
<b>TWR1C 70S</b>	<b>TWR1C 70M</b>	<b>120/347<sup>2</sup></b>
<b>TWR1C 100S</b>	<b>TWR1C 100M</b>	<b>120</b>
<b>TWR1C 150S</b>	<b>TWR1C 175M</b>	
<b>TWR2C 250S</b>	<b>TWR2C 250M</b>	
<b>TWR2C 400S</b>	<b>TWR2C 400M</b>	

#### NOTES:

- TB is 120V, 208V, 240V, 277V.
- Only available with TWR1C CSA.
- Available with 175M, 250M, 400M, 400S (120 volt) only. Consult factory for other wattage/voltage availability.

Options
<b>LPI</b> Lamp included (std.)
<b>CSA</b> CSA Certified
<b>PE</b> Photoelectric cell button type <sup>3</sup>

Accessories	(Order separately)
<b>TWR1CWG</b>	Size 1 wireguard
<b>TWR2CWG</b>	Size 2 wireguard
<b>RK1 TWR1CFA</b>	Size 1 lens repair kit
<b>RK1 TWR2CFA</b>	Size 2 lens repair kit
<b>TWR1CFV</b>	Size 1 full cutoff visor
<b>TWR2CFV</b>	Size 2 full cutoff visor



Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	TWR1C	TWR2C
Height:	10-1/4(26)	14-1/2(36.8)
Width:	13(33)	17-13(43.5)
Depth:	8-15/32(21.5)	10(25.4)
Max. weight:	18lbs (8.1kg)	25lbs (11.3kg)

### Intended Use

For building and wall mounted applications. **Contact with a direct forceful spray of water during operation can result in glass breakage. Not recommended for car wash applications.**

### Features

**Housing** – Rugged, die-cast aluminum back housing and hinged door frame. Castings are sealed with a one-piece gasket to inhibit the entrance of external contaminants. Finish is bronze polyester powder paint standard.

**Optics** – Tempered glass lens and one-piece anodized aluminum reflector provide IES **full cut-**

**off** distribution. Medium-base lamp included in carton as standard.

**Electrical** – Quad-tap, constant wattage autotransformer for 175M. High reactance, high power factor for 100M and 150S. Ballast is copper wound and 100% factory tested.

**Installation** – Housing configured for mounting directly over a standard 4" outlet box or for surface wiring via any of three convenient 3/4" threaded conduit entry hubs.

### Listings

UL Listed to US and Canadian safety standards. UL/C-UL Listed for wet locations.

## Cast Wall Packs, Glass Refractor

# TWRS



Example: **TWR1S 175M TB LPI**

### Ordering Information

Designation	Voltage	Options
High pressure sodium	<b>TB<sup>1</sup></b>	<b>LPI</b> Lamp included (std.)
<b>TWR1S 150S</b>		
Metal halide		
<b>TWR1S 100M</b>		
<b>TWR1S 175M</b>		

#### NOTES:

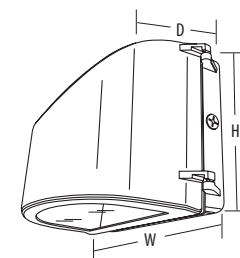
- TB is 120V, 208V, 240V, 277V.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Height:	16-1/2(41.9)
Width:	12-1/4(31.2)
Depth:	10-3/4(27.3)
Max. weight:	15.5lbs (7.0kg)



Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction



Cast Small Wall Packs, Polycarbonate Refractor

# TWS



**Intended Use**

For entrances, stairwells, corridors and other pedestrian areas.

**Features**

**Housing** – Cast aluminum backplate on which electrical components are mounted for maximum heat dissipation. Gasketing between backplate and front cover prevents entry of water and contaminants. External hardware includes Phillips head and tamperproof hex-head fasteners.

**Optics** – Front cover/refractor is injection-molded, one-piece, UV stabilized polycarbonate. The optical system is sealed and gasketed to inhibit the entrance of outside contaminants.

**Electrical** – 35-70W HPS and 50W MH use a 120V normal power factor ballast, and lamp is included as standard. The 13W compact fluorescent uses a 120V electro-magnetic ballast and includes a twin-tube fluorescent lamp as standard. The 26-42W compact fluorescent uses a multi-volt electronic ballast. Options include 120-

277V operation and 26W, 32W or 42W triple-tube fluorescent lamp (not included).

**Socket - HID:** Medium-base porcelain socket, vertically oriented with copper alloy nickel plated screw shell and center contact. (UL Listed 660W, 600V). **CFL:** The 26-42W fluorescent uses a universal 4-pin socket for 26W, 32W or 42W operation based on lamp choice. The 13W fluorescent uses a 2-pin socket.

**Installation** – Units for wall mounting include two 3/4" knockouts for routing electrical conduit.

**Listings**

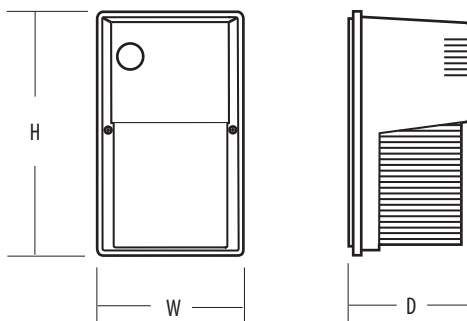
UL Listed to US and Canadian safety standards. UL/C-UL Listed for wet locations.

**Ordering Information**

Series	Designation	Voltage	Options
<b>TWS</b>	<u>High pressure sodium</u> 35S 50S 70S	<b>120</b> MVOLT <sup>2</sup>	(blank) Dark bronze finish (std.) <b>DWH</b> White finish
	<u>Metal halide</u> 50M		<u>Installed</u>
	<u>Compact fluorescent</u> 13TT 26TRT <sup>1</sup> 32TRT <sup>1</sup> 42TRT <sup>1</sup>		<b>PE</b> Photoelectric cell <sup>3</sup> <b>LPI</b> Lamp included <b>L/LP</b> Less lamp standard for 26 – 42TRT

**Example: TWS 50M 120 PE LPI**

Accessories	(Order separately)
<b>RK1 PEB1</b>	Photocell kit, (120V only)
<b>TWSWG</b>	Wireguard



Dimensions are shown in **inches (centimeters)** unless otherwise noted.

- Height: 11(27.9)
- Width: 6-7/8(17.4)
- Depth: 5-1/4(13.3)
- Max. weight: 4.9lbs (2.2kg)

**NOTES:**

- 1 Ships as 26/42TRT. Operates 26-42W as standard based on lamp choice.
- 2 Not available with MH, HPS or 13TT.
- 3 Not available with MVOLT.

Intended Use

For entrances in motels, condominiums and other pedestrian areas.

Features

Housing – Die-cast aluminum housing with electrostatically applied dark bronze polyester powder finish. White finish available.

Optics – Opal glass or white polycarbonate available.

Electrical – HPS-120V reactor normal power factor (RNP) ballasts are copper wound and 100% factory tested. Fluorescent is electromagnetic UL Listed.

Socket – Medium-base porcelain socket, vertically oriented with copper alloy, nickel-plated screw shell and center contact. (UL Listed 660W, 600V.) Fluorescent 2-pin socket: 22DTT-GX32D-2, 28DTT-GX32D-3.

Installation – Wall and ceiling mounted.

Listings

UL Listed. UL Listed for wet locations.

# WG/WP



Example: **WGCW 70S 120 LPI**

Ordering Information

Designation		Voltage	Options	
<u>High pressure sodium</u>		<b>120</b>	(blank)	Dark bronze finish (std.)
<b>WPCW 35S</b>	White polycarbonate, cylinder/wall		<b>DWH</b>	White finish
<b>WPCW 50S</b>	White polycarbonate, cylinder/wall		<b>LPI</b>	Lamp included (std.) <sup>1</sup>
<b>WGCW 70S</b>	White glass, cylinder/wall			
<b>WPGW 35S</b>	White polycarbonate, globe/wall			
<b>WPGW 50S</b>	White polycarbonate, globe/wall			
<b>WGGW 70S</b>	White glass, globe/wall			
<u>Incandescent</u>				
<b>WGCW 100I</b>	White glass, cylinder/wall			
<b>WGGW 100I</b>	White glass, globe/wall			
<b>WGCC 60I</b>	White glass, cylinder/ceiling			
<b>WGGC 60I</b>	White glass, globe/ceiling			
<b>WPCW 60I</b>	White polycarbonate, cylinder/wall			
<b>WPGW 60I</b>	White polycarbonate, globe/wall			
<b>WPCC 60I</b>	White polycarbonate, cylinder/ceiling			
<u>Fluorescent</u>				
<b>WPCW 22DTT</b>	(2-pin), white polycarbonate, cylinder/wall			
<b>WPCW 28DTT</b>	(2-pin), white polycarbonate, cylinder/wall			
<b>WPGW 28DTT</b>	(2-pin), white polycarbonate, globe/wall			

NOTES:

1 Not included with incandescent fixtures.

Lamp/Fixture Data			
Wattage	Ballast	Lamp type	Base type
<u>High pressure sodium (med/clear)</u>			
35	RNP	E17	medium
50	RNP	E17	medium
70	RNP	E17	medium
<u>Fluorescent (double twin-tube)</u>			
22	RNP	T4	GX32D-2
28	RNP	T4	GX32D-3

Garage Lighting, Surface-Mount

# PGR

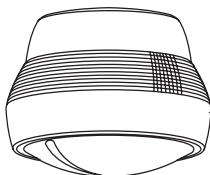


### Ordering Information

Designation	Wattage	Voltage
<b>PGR</b>	<u>High pressure sodium</u>	<b>120</b>
	70S	208 <sup>5,6</sup>
	100S	240 <sup>5,6</sup>
	150S	277 <sup>6</sup>
	<u>Metal halide</u>	<b>347<sup>6</sup></b>
	70M	480 <sup>6,7,8</sup>
	100M	TB <sup>6,8,9</sup>
	150M <sup>1</sup>	MVOLT <sup>6,10,11</sup>
	175M <sup>1</sup>	TVOLT <sup>12,13</sup>
	200M <sup>2</sup>	
	<u>Electronic metal halide<sup>3</sup></u>	
	50M	
	70M	
	50MHC	
	70MHC	
<u>Compact fluorescent</u>		
2/42TRT		
2/57TRT		
2/70TRT		
<u>Induction lighting</u>		
85IL <sup>4</sup>		

Dimensions are shown in inches (centimeters) unless otherwise noted.

Height: 11-1/2(29.2)  
 Max. diameter: 15(38.1)  
 Max. weight: 20lbs(9kg)



#### Intended Use

For parking garage applications.

#### Features

Upper housing – Rugged, die-cast aluminum with one-piece silicone gasketing. Standard finish is white corrosion-resistant polyester powder paint. Other architectural colors available.

Lower Assembly – Precision injection-molded, UV stabilized acrylic. Hinged and secured with four stainless steel screws. Polycarbonate available.

Mounting – Fully silicone-gasketed, galvanized steel plate. Surface mounts to recessed box or pendant mounts to industry standard J-boxes. The quick-mounting bracket doubles as a hanger for the fixture allowing for trouble-free electrical connections. The fixture twist-locks into place in a firm, secure fashion.

Optics – Lower semi-specular, faceted, vacuum metalized aluminum reflector and upper-precision, injection-molded, prismatic acrylic refractor. Polycarbonate refractor available.

Electrical – HID: All HPS lamps as well as 100M and 150M lamps are high reactance autotransformer, high power factor. 175M lamp is a constant-wattage autotransformer. 200M lamp requires a Super

CWA pulse start ballast. Ballasts are copper wound and 100% factory tested. 180°C Class H insulation system. 50 watt - 70 watt metal halide with electronic ballast - ballast is high power factor, <15% THD with starting temperature of -22°F (-30°C). Medium base, UL Listed 660W, 600V, 4K socket. Compact Fluorescent: ballast is Class P, electronic, high power factor, <10% THD with starting temperature of 0°F (-18°C). Sockets are high temperature thermoplastic with integral retention clip. Induction: High Frequency Generator – Supplies high frequency power to the discharge vessel (lamp) to initiate and maintain a gas discharge for a rate 100,000 hours of life (**Optimized for ambient temperatures ranging from -40° to 20°C. Higher ambient temperatures may reduce lamp life.**) Power Coupler – Induction coil transfers energy from the generator to the discharge vessel. Discharge Vessel – Glass bulb contains a mixture of low-pressure mercury vapor and inert buffer gas. The wall of the discharge vessel is coated with a fluorescent powder which produces light at 3000K color and 80+ CRI.

#### Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for 25°C ambient operation and wet locations. US patent no. D402,075. Canadian patent 86779.

#### Example: PGR 175M TB LPI

#### Options/accessories

- Installed**
- LPI Lamp included<sup>6</sup>
  - LP Lamp factory installed
  - L/LP Less lamp<sup>6</sup>
  - HS House-side glare shield<sup>6</sup>
  - HSR House-side glare shield ready<sup>6</sup>
  - FLR Frosted lower lens
  - DN Downlight focused, (n/a HA or HS)<sup>6,8</sup>
  - PC Polycarbonate refractor/lower housing/lens
  - TP Tamper-resistant lens screws
  - GEB Electronic ballast<sup>8</sup>
  - SCWA Super CWA pulse start ballast (available with 150M, 175M and 200M only)
    - SF Single fuse, 120V, 277V, 347V (n/a TB)<sup>6,8,14</sup>
    - DF Double fuse, 208V, 240V, 480V (n/a TB)<sup>6,8,14</sup>
    - GMF Internal slow blowing fuse (n/a MVOLT)<sup>15</sup>
    - QRS Quartz restrike system (250W max.)<sup>6,8,16</sup>
    - QRSTD QRS time delay (250W max.)<sup>6,8,16,17</sup>
    - EC Emergency circuit<sup>5,16,18</sup>
    - KW1 KiloWatch 120V control relay<sup>6,8,19</sup>
    - CR Enhanced corrosion resistance
    - CRT Non-stick protective coating (black finish only)
    - HA 40°C ambient<sup>6,8,20</sup>
    - CSA CSA Certified
    - NOM NOM Certified, consult factory
- Shipped separately**
- OJB Offset junction box
  - YK Yoke mount
  - BDS Bird deterrent shroud (for use with non-surface mounting options; rigid conduit, YK or OJB)

#### Accessories (Order separately)

- RK1 T20BIT** Hex base driver bit, Torx® TX20, for tamper-resistant screws with center reject pin
- RK1 T20DRV** Torx® TX20 screwdriver for use with tamper-resistant screws with center reject pin

#### NOTES:

- 1 May be ordered with SCWA option.
- 2 Must be ordered with SCWA option.
- 3 Must be ordered with GEB option.
- 4 Must be ordered with LP option. **Optimized for use in areas where ambient temperature does not exceed 20°C. Higher ambient temperatures may reduce lamp life.**
- 5 Consult factory for availability in Canada.
- 6 Not available with induction.
- 7 Available in 150S, 175M and 200M only.
- 8 Not available with compact fluorescent.
- 9 Optional multi-tap ballast 120, 208, 240, 277 (120, 277, 347 for Canada).
- 10 Optional multi-volt electronic ballast capable of operating on any line voltage from 120V-277V. Use for both compact fluorescent and electronic HID.
- 11 Available in compact fluorescent, 50M, 50MHC, 70M and 10MHC only.
- 12 Optional tri-volt electronic ballast capable of operating on any line voltage from 200V-277V.
- 13 Available with induction only.
- 14 Not available with multi-tap or multi-volt ballasts.
- 15 Available with electronic, HID only.
- 16 Lamp not included.
- 17 Not available with KiloWatch.
- 18 Lamp wattage not to exceed ballast wattage.
- 19 For specific ordering information, see KiloWatch brochure, form no. 720.146 or consult factory.
- 20 Not available with HS (house-side glare shield) or 200M.

# TGL TGR

### Intended Use

For areas that require optimum vertical illumination with glare control at low mounting heights. Ideal for parking garages, greenhouses, garden centers and low-profile industrial aisles. **Certain airborne contaminants can diminish integrity of acrylic. Refer to acrylic environmental compatibility chart on page 735 for suitable uses.**

### Features

**Housing** – Rugged, heavy, die-cast aluminum housing. Standard finish is natural aluminum polyester powder finish.

**Ballast** – 100% factory tested. High power factor ballast with a minimum of class H insulation.

**Induction lighting:** High Frequency Generator/Ballast - Supplies high-frequency current to the lamp to initiate and maintain a gas discharge for a rated 100,000 hours of life.

**Optics** – One-piece, injection-molded, 100% virgin acrylic refractor. TGL Type V (A165), Type II (A162), TGR Type V (A125), and Type 1 (A121) distributions are available. Polycarbonate refractor available.

**Socket** – Glazed porcelain, vertically oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. Medium-base (100M only): UL Listed 660W, 600V, 4KV pulse rated.

**Discharge Vessel/Lamp** – Glass bulb that contains a mixture of low-pressure mercury vapor and inert buffer gas. The wall of the lamp is coated with a fluorescent powder that produces light.

### Listings

TGL: UL Listed to US and Canadian safety standards. NOM Certified. TGR: UL Listed and CSA Certified. NOM Certified. UL Listed for damp locations. Ambient operation: -30°C to 40°C (250M); -40°C to 25°C (85IL). UL wet location optional.



### Ordering Information

Series	Wattage	Optical <sup>2</sup>		Voltage	Ballast
<b>High pressure sodium</b>					
TGL	Type V	Type II		120	Metal halide and high pressure sodium (blank) Standard magnetic ballast <i>Pulse Start H.I.D. Ballast/Lamp Systems</i> Pulse start metal halide LLRPSL Linear reactor pulse start SCWA Super constant wattage autotransformer See pages 384-385 for details.
	70S	A165	A162	208 <sup>3,4</sup>	
	100S	A165	A162	240 <sup>4,5</sup>	
TGR	150S	A165	A162	277	
	70S	A125	A121	347	
	100S	A125	A121	480 <sup>4</sup>	
	150S	A125	A121	TB <sup>6</sup>	
<b>Metal halide</b>					
TGL	100M	A165	A162		
	175M	A165	A162		
	200M	A165	A162		
	250M <sup>1</sup>	A165	A162		
TGR	100M	A125	A121		
	175M	A125	A121		
<b>Induction</b>					
TGL	85IL	A165	A162		
	55IL	A165	A162		

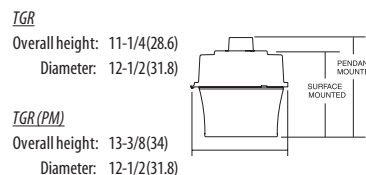
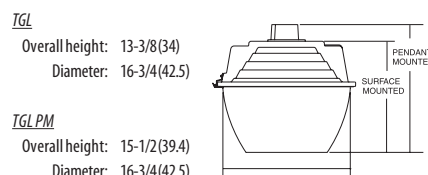
- NOTES:
- 1 Not available with SCWA.
  - 2 Polycarbonate lens: Replace A in optical nomenclature with P for polycarbonate lens.
  - 3 Requires CWI option in Canada. Only available in 250M.
  - 4 Requires CWI or MRB option in Canada for HPS. Available for 70-150W.
  - 5 220V and 240V, 50 and 60 hertz ballasts available for use with US metal halide and high pressure sodium lamps.
  - 6 Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada).

### Example: TGL 175M A165 TB PM

**Options/accessories**  
See pages 386-397. HID lamps are available with luminaires. Consult factory.

Lamp/fixture data				
Wattage	Standard ballast	Weights/mtg. height		
		lbs.	kg.	
TGL Type V				
High pressure sodium (mog/clear)				
70	HX-HPF	21	9	2.3
100	HX-HPF	23	10	2.3
150	HX-HPF	23	10	2.3
Metal halide [med(100)/mog(175-250)/clear]				
100	CWA	20	9	1.2
175	CWA	23	10	1.7
250	CWA	26	12	1.7
TGR Type V				
High pressure sodium (mog/clear)				
70	HX-HPF	11	5	1.8
100	HX-HPF	13	6	1.7
150	HX-HPF	14	6	1.8
Metal halide [med(100)/mog(175)/clear]				
100	CWA	13	6	1.7
175	CWA	14	6	1.8

Dimensions are shown in inches (centimeters) unless otherwise noted.



Ambient Parameters	-40°C to 25°C (-22° to 77°F)	-30° to 40°C (-22° to 104°F)	-30° to 55°C (-22° to 131°F)
--------------------	---------------------------------	---------------------------------	---------------------------------

TGR		■	
TGL 100-175M			■
TGL 250M		■	
TGL 70-150S			■
TGL 55-85IL	■		

■ = Compatibility

Garage Lighting, Ceiling Mount

# KPS



Ordering Information

Designation	Distribution	Voltage	Options/accessories
High pressure sodium			<b>Installed</b>
<b>KPS 50S</b>	<b>R2</b> Type II Roadway	<b>120</b>	<b>LPI</b> Lamp included
<b>KPS 70S</b>	<b>R3</b> Type III Asym	<b>208<sup>1</sup></b>	<b>L/LP</b> Less lamp
<b>KPS 100S</b>	<b>R4</b> Type IV FT	<b>240<sup>1</sup></b>	<b>SF</b> Single fuse, 120V, 277V, 347V
<b>KPS 150S</b>	<b>R5</b> Type V Sym.	<b>277</b>	<b>DF</b> Double fuse, 208V, 240V, 480V
Metal halide			<b>QRS</b> Quartz restrike system (100W max., 120V lamp not included)
<b>KPS 100M</b>		<b>347</b>	<b>EC</b> Emergency circuit (100W max., 120V lamp not included)
<b>KPS 150M</b>		<b>480<sup>1</sup></b>	<b>MOG</b> Mogul-base socket
<b>KPS 175M</b>		<b>TB<sup>2</sup></b>	<b>CR</b> Enhanced corrosion resistance
			<b>HS</b> House-side shield (R3/R4 only)
			<b>YK</b> Yoke mount
			<b>SS</b> Stainless steel housing <sup>3</sup>
			<b>RMG</b> Recessed mount 2" x 2" (grid ceiling) <sup>3</sup>
			<b>WL</b> Wet location
			<b>SCWA</b> Super CWA pulse start ballast, requires R5 distribution (n/a HPS or 100M)
			<b>CSA</b> CSA Certified
			<b>NOM</b> NOM Certified (consult factory)
			For optional architectural colors, see page 543.
			<b>Shipped separately</b>
			<b>VG</b> Vandal guard

Example: **KPS 150S R2 120 EC LPI**

Intended Use

For parking garage applications.

Features

Housing – Rugged, heavy-gauge aluminum housing. Square shape, continuous welded seams for weather-tight integrity. Extruded-aluminum door frame has an impact-resistant, tempered glass lens. Door frame is sealed to housing by EPDM closed-cell gasket. Direct mounting to recessed J-box is standard; yoke or recessed mountings optional. Housing will accommodate both top and side branch-circuit wiring and has internal splice compartment. Dark bronze (DDB) corrosion-resistant polyester powder finish standard; other architectural colors available. Stainless steel housing also available.

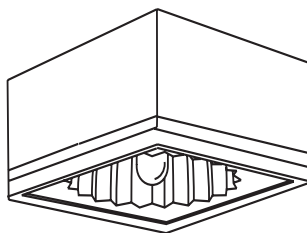
Optics – Reflectors are anodized, hydroformed aluminum. Four cutoff distributions available: Type II (roadway), Type III (asymmetric), Type IV (forward throw) and Type V (symmetric). Type V reflector is vertically lamped, all others horizontally lamped. Reflectors are field-interchange-

able and hinge out for easy removal during installation/maintenance.

Electrical – All ballasts are copper wound and 100% factory tested. Electrical components are unitized on removable power module. Positive-locking, quick-disconnect on primary and secondary circuits. Medium-base porcelain socket standard. Mogul-base porcelain socket for 175W metal halide. 4KV pulse rated.

Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for damp locations. *SS option*: UL Listed for 25°C ambient and damp location. *RMG option*: UL Listed for recessed mounting, wet locations and covered ceilings only.



Dimensions are shown in inches (centimeters) unless otherwise noted.

- Length: 16-3/4(42.6)
- Width: 16-3/4(42.6)
- Depth: 10-1/2(26.7)
- Max. weight: 36lbs (16 kg)

NOTES:

- 1 Consult factory for availability in Canada.
- 2 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 3 SS and RMG cannot be ordered together.

# KACM

### Intended Use

For parking garages, convenience stores, hotels and walkways.

### Features

Housing – Rugged, die-cast, soft-corner aluminum housing with 0.12" nominal wall thickness. Die-cast aluminum door frame has prismatic, impact-resistant, tempered glass; drop dish acrylic lens or drop dish polycarbonate lens. Door frame is fully gasketed with one-piece tubular silicone. Surface mounted utilizing four 0.5" mounting holes and one 0.875 wire-entry hole (mounting hardware not included). Dark bronze (DDB) corrosion-resistant polyester powder finish is standard. Other architectural colors available.

Optics – Reflector is optical-quality aluminum that works in tandem with a light-diffusing prismatic lens.

Electrical – HID: Ballast is high-reactance, high-power factor (150W) or high-power factor, constant-wattage autotransformer (175-400W MH & HPS). Induction: High Frequency Generator -

Supplies high frequency power to the discharge vessel (lamp) to initiate and maintain a gas discharge for a rate 100,000 hour of life (Optimized for ambient temperatures ranging from -40° to 25°C, higher ambient temperatures may reduce lamp life).

Socket – Mogul-base porcelain socket, 4KV pulse rated. Position-oriented socket standard on all metal halide units.

### Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. UL Listed for 25°C ambient temperature. **For covered ceiling, mount on concrete, steel or aluminum. Not for use in dwellings.**



Optional white finish shown. Standard finish is dark bronze.

Example: **KACM 400M FP 120 LPI**

### Ordering Information

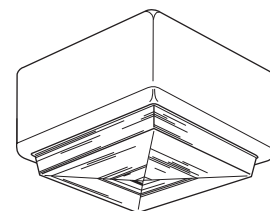
Designation	Distribution	Voltage	Options/accessories
<u>High pressure sodium</u>			
<b>KACM 150S</b>	<b>FP</b> Flat prismatic lens (C73T) <sup>4</sup>	<b>120<sup>4</sup></b>	<b>Installed</b>
<b>KACM 250S</b>	<b>DPA</b> Drop prismatic lens (acrylic)	<b>208<sup>4,5</sup></b>	<b>LPI</b> Lamp included <sup>4</sup>
<b>KACM 400S</b>	<b>DPP</b> Drop prismatic lens (polycarbonate)	<b>240<sup>4,5</sup></b>	<b>L/LP</b> Less lamp <sup>4</sup>
<u>Metal halide</u>		<b>277<sup>4</sup></b>	<b>LP</b> Lamp included <sup>7</sup>
<b>KACM 150M<sup>1</sup></b>		<b>347<sup>4</sup></b>	<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB) <sup>4</sup>
<b>KACM 175M</b>		<b>480<sup>4,5</sup></b>	<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB) <sup>4</sup>
<b>KACM 200M<sup>2</sup></b>		<b>TB<sup>4,6</sup></b>	<b>QRS</b> Quartz restrike system (250W max., 120V lamp not included) <sup>4</sup>
<b>KACM 250M<sup>1</sup></b>		<b>TVOLT<sup>7</sup></b>	<b>EC</b> Emergency circuit (lamp not included, 250W max.) <sup>4</sup>
<b>KACM 320M<sup>2</sup></b>			<b>YK</b> Yoke mount
<b>KACM 350M<sup>2</sup></b>			<b>TC</b> Thru-wire conduit tee capability <sup>4</sup>
<b>KACM 400M<sup>1</sup></b>			<b>SCWA</b> Super CWA pulse start ballast (n/a HPS or 175M) <sup>4</sup>
<u>Induction</u>			<b>CSA</b> CSA Certified <sup>4</sup>
<b>KACM 165IL<sup>3</sup></b>			<b>NOM</b> NOM Certified (consult factory) <sup>4</sup>
			<b>Shipped separately<sup>8</sup></b>
			<b>KACVG</b> Vandal guard <sup>4,9</sup>
			<b>KACWG</b> Wire guard

NOTES:

- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA.
- 3 Must be ordered with LP option.
- 4 Not available with 165IL.
- 5 Consult factory for availability in Canada.
- 6 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 7 165IL only.
- 8 May be ordered as an accessory.
- 9 FP lens only.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Length:	17-1/2(44.5)
Width:	17-1/2(44.5)
Depth:	FP option 7-1/8(18.1) DP option 11-1/8(28.3)
Max. weight:	40lbs (18.1 kg)



## Architectural Floodlights

# ASF

Aeris™



### Intended Use

For landscape and facade lighting.

### Features

**Housing** – Rugged, die-cast, single piece low copper alloy aluminum housing. Die-cast door frame has impact-resistant, tempered glass lens. Door frame is fully sealed with a closed cell silicone gasket. Standard finish is textured dark bronze (DDBT) polyester powder. Other architectural colors available.

**Optics** – Anodized aluminum reflectors; segmented, specular or hammertone finish. Reflectors are interchangeable and allow for tool-less access to electrical components.

**Electrical** – 150W and below utilizes a high reactance, high power factor ballast. 175W and above utilizes a constant-wattage autotransformer ballast. Compact fluorescent uses an electronic high fre-

quency ballast. Optional pulse start ballast available. Quick disconnect plugs easily disconnect reflector from ballast and fixture from supply wires. Ballasts are precision wound and 100% factory tested.

**Socket** – Porcelain, medium base socket for ASF1, mogul-base socket for ASF2, with copper alloy, nickel-plated screw shell and center contact (UL Listed 660W, 600V, 4KV pulse rated). Fluorescent is four-pin positive latching thermoplastic. UL Listed.

**Installation** – ASF1 standard mounting is cast 3/4" threaded knuckle. ASF2 standard mounting is heavy-duty, cast-aluminum swivel which fits over standard 1-1/2" (1.9" O.D.) to 2" (2.38" O.D.). Optional yoke mounting available in both sizes.

### Listings

UL Listed to U.S. and Canadian safety standards. NOM Certified (see Options). IP66 rated. Patents pending.

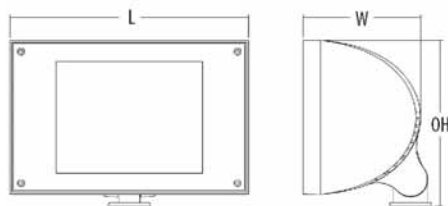
### Ordering Information

Example: **ASF1 175M WDF 120 SF LPI**

Designation	Distribution	Optional mounting	Options/accessories
<u>High pressure sodium</u>	<b>NSP</b> Narrow spot	<u>Installed</u>	<u>Shipped separately</u>
<b>ASF1 50S</b>	<b>SP</b> Spot	(blank) ASF1 3/4" threaded knuckle (std.)	<b>ASF1</b> Outdoor remote ballast <sup>15</sup>
<b>ASF1 70S</b>	<b>HSP</b> Horizontal spot	(blank) ASF2 swivel (std.)	<b>HRBW</b> HID remote ballast weatherproof (black)
<b>ASF1 100S</b>	<b>MDF</b> Medium flood	<b>YK</b> Yoke mount	<u>Indoor remote ballast<sup>15</sup></u>
<b>ASF2 200S</b>	<b>WDF</b> Wide flood	<u>Shipped separately</u>	<b>HRB</b> HID remote ballast (white)
<b>ASF2 250S</b>	<b>VFW</b> Vertical flood-wide	<b>AFSTMTHK</b> Stanchion mount for 3/4" THK option <sup>9</sup>	<u>Architectural colors<sup>16</sup></u>
<b>ASF2 400S<sup>17</sup></b>	<b>VFN</b> Vertical flood-narrow	<b>AFSTM</b> Stanchion mount	<b>DDBT</b> Dark bronze (std.)
<u>Metal halide</u>		<b>AFTM</b> Tenon base mount	<b>DSST</b> Sandstone
<b>ASF1 50M</b>		<b>AFWMA</b> Wall-mount arm	<b>DNAT</b> Natural aluminum
<b>ASF1 70M</b>		<b>AFWMATHK</b> Wall-mount arm for 3/4" THK option <sup>9</sup>	<b>DWHG</b> White
<b>ASF1 100M</b>		<b>AFWMPTHK</b> Wall-mount plate for 3/4" THK option <sup>9</sup>	<b>DBLB</b> Black
<b>ASF1 150M<sup>1</sup></b>		<b>AFTS</b> Architectural tenon slipfitter for 3/4" THK option <sup>9</sup>	<u>Optional textured colors</u>
<b>ASF1 175M</b>		<b>AFTMBTHK</b> Twin mounting bar for 3/4" THK option <sup>9</sup>	<b>DBNH</b> Bronze
<b>ASF2 200M<sup>2</sup></b>		<b>AFTMB</b> Twin mounting bar	<b>DSPD</b> Dark gray
<b>ASF2 250M<sup>1</sup></b>	<b>Voltage</b>	<b>AFJB</b> Architectural J-box for 3/4" THK option <sup>9</sup>	<b>DSPJ</b> Light gray
<b>ASF2 320M<sup>2</sup></b>	<b>120</b>	<b>FCRA45</b> Cross arm adaptor <sup>10</sup>	<b>DSPG</b> Green
<b>ASF2 350M<sup>2</sup></b>	<b>208<sup>3</sup></b>	<b>FPMB</b> Wall/pole mounting bracket <sup>10</sup>	<b>DSPH</b> Red
<b>ASF2 400M<sup>1,3</sup></b>	<b>240<sup>3</sup></b>		
<u>Compact fluorescent<sup>4</sup></u>	<b>277</b>		
<b>ASF1 26DTT</b>	<b>347</b>		
<b>ASF1 2/26DTT</b>	<b>480<sup>5</sup></b>		
<b>ASF1 32TRT</b>	<b>TB<sup>6</sup></b>		
<b>ASF1 2/32TRT</b>	<b>TBV<sup>7</sup></b>		
<b>ASF1 42TRT</b>	<b>MVOLT<sup>8</sup></b>		
<b>ASF1 2/42TRT</b>			
<b>ASF1 57TRT</b>			
<b>ASF1 2/57TRT</b>			
<b>ASF1 70TRT</b>			

Dimensions are shown in inches (centimeters) unless otherwise noted.

(ASF1 shown)	ASF1	ASF2
EPA:	1.2ft <sup>2</sup>	2.0ft <sup>2</sup>
Width:	7.62	11
Length:	15.5	21.5
Overall height:	10.80	18.5
Max. weight:	20 lbs	35 lbs



- NOTES:
- 1 May be ordered with SCWA.
  - 2 Must be ordered with SCWA.
  - 3 ED-28 reduced jacket lamp required.
  - 4 Available with WDF distribution only.
  - 5 Consult factory for availability in Canada.
  - 6 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
  - 7 Optional five-tap ballast (120V, 208V, 240V, 277V, 180V; not available in Canada).
  - 8 Multi-volt electronic ballast for compact fluorescent; ships standard on CFL wattages.
  - 9 For use with THK mounting only.
  - 10 For use with yoke mounting only. Must include yoke mount option on fixture.
  - 11 ASF2 only. EC, QRS, and QRSDT options cannot be ordered together.
  - 12 ASF1 only.
  - 13 Must be ordered with fixture; can not be field installed.
  - 14 Not available with HPS or CFL.
  - 15 Consult factory for availability.
  - 16 Additional architectural colors available; see www.lithonia.com for more information.
  - 17 Not available with NSP or SP distributions.

Lamp/Fixture Data					
Wattage	Distribution	Ballast	Lamp type	Base type	NEMA dist.
<u>High pressure sodium (med/mog/clear)</u>					
150	HSP	HX-HPF	E17	medium	5x3
150	WDF	HX-HPF	E17	medium	7x6
400	HSP	CWA	ET18	mogul	7x3
400	WDF	CWA	ET18	mogul	7x6
<u>Metal halide (med/mog/clear)</u>					
175	NSP	CWA	E17	medium	1x2
175	HSP	CWA	E17	medium	5x3
175	WDF	CWA	E17	medium	7x6
400	NSP	CWA	ED28	mogul	1x3
400	HSP	CWA	ED28	mogul	7x5
400	WDF	CWA	ED28	mogul	7x6
<u>Compact fluorescent (double twin-tube/triple-tube)</u>					
57TRT	WDF	electronic, HPF	T4	GX24Q-5	7x6
70TRT	WDF	electronic, HPF	T4	GX24Q-6	7x6



## Architectural Floodlights

# KFL



Shown with standard swivel mount

Example: **KFL2 70S HPN 120 SF LPI**

### Intended Use

For landscape and facade lighting.

### Features

Housing – Extruded aluminum body with cast end caps. Cast aluminum door frame is hinged and secured by stainless steel fasteners. Closed-cell silicone gasket prevents entrance of contaminants. Clear, impact-resistant, tempered glass lens with silk screen. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Other architectural colors available.

Optics – Anodized aluminum reflectors; segmented, specular or hammertone finish. Reflectors are field interchangeable.

Electrical – 150W and below utilizes a high-reactance, high power factor ballast. 175W and above utilizes a constant-wattage autotransformer bal-

last. Ballast is copper wound and 100% factory tested. UL Listed.

Socket – Horizontal porcelain socket (KFL2 medium base, KFL3 mogul base) with copper alloy, nickel-plated screw shell and center contact. UL Listed 660W, 600V 4KV pulse rated.

Installation – Standard mount is two-piece, heavy-duty, cast-aluminum swivel with integral wiring compartment (pictured). Swivel fits over standard 1-1/2" (1.9" OD) to 2" (2.38" OD) tenon. Corrosion-resistant painted steel yoke with 3-foot, 16/3 SEO cable or threaded knuckle mount (1/2" NPT) are optional.

### Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.

### Ordering Information

Designation	Distribution	Voltage
<b>High pressure sodium</b>		
KFL2 70S	SP Spot	120
KFL2 100S	BP Horizontal flood <sup>4</sup>	208 <sup>5</sup>
KFL2 150S	RN Horizontal spot, narrow	277
KFL3 250S	RM Horizontal spot, medium	347
KFL3 400S	RM Horizontal spot, medium	480 <sup>5</sup>
<b>Metal halide</b>		
KFL2 70M	RW Horizontal spot, wide	TB <sup>6</sup>
KFL2 100M	HPN Vertical flood, narrow	
KFL2 150M <sup>1</sup>	HPM Vertical flood, medium	
KFL2 175M	HPM Vertical flood, medium	
KFL3 200M <sup>2</sup>	HPW Vertical flood, wide	
KFL3 250M <sup>1</sup>	FT Forward throw	
KFL3 320M <sup>2</sup>		
KFL3 350M <sup>2</sup>		
KFL3 400M <sup>1,3</sup>		

Optional mounting
<b>Installed</b>
YK Yoke mount
THK Threaded knuckle mount
<b>Shipped separately</b>
AFSTM Stanchion mount
KFLSTMTHK Stanchion mount for 1/2" THK option <sup>7</sup>
AFTM Tenon base mount
AFWMA Wall mount arm
KFLWMATHK Wall-mount arm for 1/2" THK option <sup>7</sup>
FCRA45 Crossarm adapter <sup>8</sup>
TS Tenon slipfitter <sup>8</sup>
AFTMB Twin mounting bar
KFLTMBTHK Twin mounting bar for 1/2" THK option <sup>7</sup>
FPMB Wall/pole mounting bracket <sup>8</sup>
AJB Architectural J-box for 1/2" THK option <sup>7</sup>
<b>Outdoor remote ballast</b>
HRBW HID remote ballast weatherproof (black) <sup>9</sup>
<b>Indoor remote ballast</b>
HRB HID remote ballast (white) <sup>9</sup>

### Options/accessories

<b>Installed</b>
SF Single fuse, 120V, 277V, 347V (n/a TB)
DF Double fuse, 208V, 240V, 480V (n/a TB)
PE Photoelectric cell, button type (n/a TB or 480)
QRS Quartz restrike system (KFL3 only, 100W max., lamp not included)
EC Emergency circuit (KFL3 only, 100W max., lamp not included)
CR Enhanced corrosion resistance
SCWA Super CWA pulse start ballast (n/a HPS, 70M, 100M or 175M)
LPI Lamp included
L/LP Less lamp
CSA CSA Certified
NOM NOM Certified (consult factory)
<b>Shipped separately</b> <sup>10</sup>
UV Upper visor
EV Eggcrate visor (black)
FV Full visor
BV Bottom visor
WG Wireguard
BD Barn door
HLV Horizontal louver (black)
VLV Vertical louver (black)
BVG Bubble vandal guard
UV/BVG Upper visor and bubble vandal guard

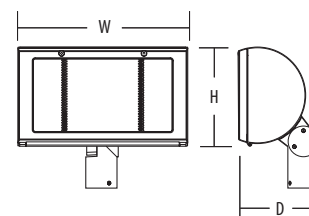
For optional architectural colors, see page 543.

#### NOTES:

- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA.
- 3 ED-28 reduced jacket lamp required.
- 4 KFL2 only.
- 5 Consult factory for availability in Canada.
- 6 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 7 For use with THK mounting only. Must include THK mount option on fixture.
- 8 For use with yoke mounting only. Must include yoke mount option on fixture.
- 9 Consult factory for availability.
- 10 Field modification required unless ordered with fixture.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	KFL2	KFL3
EPA:	1.3 ft <sup>2</sup> (.12 m <sup>2</sup> )	2.0 ft <sup>2</sup> (.19 m <sup>2</sup> )
Width:	17(43.2)	20(50.8)
Depth:	8-1/16(19.7)	9-1/16(23.8)
Height:	9-7/8(24.8)	13-1/16(33.2)
Overall height:	14-1/16(35.6)	16-15/16(42.9)
Max. weight:	29 lbs (13.1 kg)	44 lbs (19.9 kg)



Lamp/Fixture Data					
Wattage	Distribution	Ballast	Lamp type	Beam spread H°xV°	NEMA dist.
<b>High pressure sodium</b>					
150	SP	HX-HPF	E17	142x127	3x1
150	HPW	HX-HPF	E17	39x12	7x6
400	SP	CWA	ET18	60x13	4x1
400	HPW	CWA	ET18	144x140	7x7
<b>Metal halide</b>					
175	SP	CWA	ED17	27x15	2x1
175	HPW	CWA	ED17	147x127	7x6
400	SP	CWA	BT28	42x17	3x1
400	HPW	CWA	BT28	146x140	7x7

## Specification Large Floodlights

# TFA

### Contour®



#### Intended Use

For industrial yards, parking lots, construction sites, streets and recreational areas.

#### Features

**Housing** – Heavy-duty construction. Contoured die-cast aluminum housing and front bezel. Bezel hinged and latched for fast, easy tool-less internal access to optical and electrical compartments. Lens is heavy-duty, thermal shock-resistant, clear tempered glass with no metal-to-glass contact. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

**Optics** – Computer-designed, precision die-formed, specular anodized aluminum reflector provides high efficiencies. Premium, one-piece silicone gasket seals optical chamber to inhibit entrance of outside contaminants.

**Electrical** – High-power factor, constant-wattage autotransformer. Ballast is copper wound and 100% factory tested. UL Listed. Electrical

components mounted to rear housing for maximum heat dissipation.

**Socket** – Porcelain, horizontally or vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V.

**Installation** – Tool-less latches on front bezel can be opened while wearing gloves. Corrosion-resistant, painted steel yoke.

#### Listings

UL Listed (standard) (ambient temperature 25°C for 750W and above, 40°C for 400W and below). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.

**lightquick<sup>®</sup> XD**  
Express delivery products.

See page 11 for details about LightQuick XD.

#### Description

**TFA 1000M TA TB LPI**

### Ordering Information

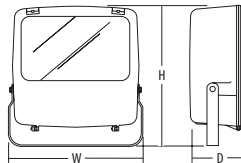
Example: **TFA 1000M TA TB LPI**

Designation	Distribution						Voltage	Installed	Options/accessories	
	Horizontal			Vertical					Shipped separately	
<b>High pressure sodium</b>	<b>RN</b>	<b>TA</b>	<b>RB</b>	<b>RC</b>	<b>RE</b>	<b>TA2</b>	<b>RM</b>	<b>120</b>	<b>LPI</b> Lamp included	<b>TFAWG</b> Wireguard <sup>13</sup>
<b>TFA 2505</b>	<b>RN</b>	<b>TA</b>	<b>RB</b>	<b>RC</b>	<b>RE</b>	<b>TA2</b>	<b>RM</b>	<b>208<sup>4</sup></b>	<b>L/LP</b> Less lamp	<b>TFAVG</b> Vandal guard <sup>13</sup>
<b>TFA 4005</b>	<b>RN</b>	<b>TA</b>	<b>RB</b>	<b>RC</b>	<b>RE</b>	<b>TA2</b>	<b>RM</b>	<b>240<sup>4</sup></b>	<b>SF</b> Single fuse, 120V, 277V, 347V <sup>1</sup>	<b>TFAUV</b> Upper visor <sup>13</sup>
<b>TFA 7505<sup>1</sup></b>	<b>RN</b>	<b>TA</b>	<b>RB</b>	<b>RC</b>	<b>RE</b>	<b>TA2</b>	<b>RM</b>	<b>277</b>	<b>DF</b> Double fuse, 208V, 240V, 480V <sup>1</sup>	<b>TFAFV</b> Full visor <sup>13</sup>
<b>TFA 1000S</b>	<b>RN</b>	<b>TA</b>	<b>RB</b>	<b>RC</b>	<b>RE</b>	<b>TA2</b>	<b>RM</b>	<b>347</b>	<b>EC</b> Emergency circuit <sup>7,8</sup>	<b>TFAFV</b> Full visor <sup>13</sup>
<b>Metal halide</b>	<b>RN</b>	<b>TA</b>	<b>RB</b>	<b>RC</b>	<b>RE</b>	<b>TA2</b>	<b>RM</b>	<b>480<sup>4</sup></b>	<b>QRS</b> Quartz restrrike system <sup>7,8</sup>	<b>TFAFV</b> Full visor <sup>13</sup>
<b>TFA 250M<sup>2</sup></b>	<b>RN</b>	<b>TA</b>	<b>RB</b>	<b>RC</b>	<b>RE</b>	<b>TA2</b>	<b>RM</b>	<b>TB<sup>5</sup></b>	<b>QRSTD</b> Quartz time delay <sup>7,8</sup>	<b>FTS</b> Tenon slipfitter (2-3/8" to 2-7/8" OD tenon) <sup>11</sup>
<b>TFA 320M<sup>3</sup></b>	<b>RN</b>	<b>TA</b>	<b>RB</b>	<b>RC</b>	<b>RE</b>	<b>TA2</b>	<b>RM</b>	<b>TBV<sup>6</sup></b>	<b>CR</b> Enhanced corrosion resistance	<b>FCRA</b> Crossarm adapter (horizontal) <sup>11</sup>
<b>TFA 350M<sup>3</sup></b>	<b>RN</b>	<b>TA</b>	<b>RB</b>	<b>RC</b>	<b>RE</b>	<b>TA2</b>	<b>RM</b>		<b>CRT</b> Non-stick protective coating <sup>9</sup>	<b>FCRA45</b> Crossarm adapter (45° from horizontal) <sup>11</sup>
<b>TFA 400M<sup>2</sup></b>	<b>RN</b>	<b>TA</b>	<b>RB</b>	<b>RC</b>	<b>RE</b>	<b>TA2</b>	<b>RM</b>		<b>PER</b> NEMA twist-lock receptacle <sup>10</sup>	<b>FPMB</b> Wood pole/pipe/wall-mounting bracket (includes FCRA) <sup>11</sup>
<b>TFA 750M<sup>3</sup></b>	<b>RN</b>	<b>TA</b>	<b>RB</b>	<b>RC</b>	<b>RE</b>	<b>TA2</b>	<b>RM</b>		<b>IS</b> Integral slipfitter (2-3/8" to 2-7/8" OD tenon)	<b>FWPB</b> Wall/wood pole/pipe bracket <sup>11</sup>
<b>TFA 1000M<sup>2</sup></b>	<b>RN</b>	<b>TA</b>	<b>RB</b>	<b>RC</b>	<b>RE</b>	<b>TA2</b>	<b>RM</b>		<b>CF</b> Charcoal filter	<b>FRWB</b> Radius wall bracket <sup>14</sup>
									<b>C62</b> 2' 16-3 cord prewired	<b>FSAB</b> Steel angle bracket <sup>11</sup>
									<b>C42</b> 2' 14-3 cord prewired	<b>FSPB</b> Steel square pole bracket (for use with existing poles) <sup>14</sup>
									<b>C22</b> 2' 12-3 cord prewired	<b>PE1</b> NEMA twist-lock photocontrol (120V, 208V, 240V) <sup>15</sup>
									<b>TP</b> Tamperproof latches	<b>PE3</b> NEMA twist-lock photocontrol (347V) <sup>15</sup>
									<b>SCWA</b> Super CWA pulse start ballast (n/a HPS)	<b>PE4</b> NEMA twist-lock photocontrol (480V) <sup>15</sup>
									<b>CSA</b> CSA Certified <sup>12</sup>	<b>PE7</b> NEMA twist-lock photocontrol (277V) <sup>15</sup>
									<b>NOM</b> NOM Certified (consult factory)	<b>SC</b> Shorting cap
										<b>TM</b> Tenon mount <sup>14</sup>

Lamp/Fixture Data				
Wattage	Dist.	Ballast	Lamp type	NEMA dist.
<b>High pressure sodium (mog/clear)</b>				
400	TA	CWA	ET18	7x7
400	RN	CWA	ET18	6x3
400	TA2	CWA	ET18	7x6
400	RB	CWA	ET18	6x6
1000	TA	CWA	E25	7x7
1000	RN	CWA	E25	6x2
1000	TA2	CWA	E25	7x6
1000	RB	CWA	E25	6x6
<b>Metal halide (mog/clear)</b>				
400	TA	CWA	BT37	7x7
400	RN	CWA	BT37	6x3
400	TA2	CWA	BT37	7x6
400	RB	CWA	BT37	6x6
1000	TA	CWA	BT56	7x7
1000	RN	CWA	BT56	6x3
1000	TA2	CWA	BT56	7x6
1000	RB	CWA	BT56	6x6

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

EPA: 2.6 ft<sup>2</sup> (.24m<sup>2</sup>)  
 Width: 22(59.9)  
 Depth: 9-3/4(24.7)  
 Height: 18-3/4(47.6)  
 Overall height: 22-1/2(57.1)  
 Weight: 65lbs(29.5kg)



#### NOTES:

- Not available in multi-tap ballast.
- May be ordered with SCWA.
- Must be ordered with SCWA.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V), n/a in Canada.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- Black finish only.
- Photocontrol not included.
- Yoke-mount only.
- Not available with TBV.
- Field modification required unless ordered with fixture.
- Requires IS or FTS slipfitter.
- PER must be ordered with fixture.

www.lithonia.com, keyword: TFA

## Specification Medium Floodlights

### Intended Use

For recreation areas, parking lots, building facades and car lots.

### Features

**Housing** – Compact, soft-corner, die-cast aluminum housing and front cover. Front bezel is fully sealed with one-piece, bonded silicone gasket. Lens is thermal- and shock-resistant, clear, tempered glass. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

**Optics** – TA2: vertical lamp with one-piece, hydro-formed, anodized aluminum reflector. Two-position adjustable socket. RA2: horizontal lamp with anodized specular aluminum reflector. Both have sealed optic chamber to inhibit entrance of outside contaminants.

**Electrical** – Components mounted to cast-aluminum housing for maximum heat-dissipation. Ballast is high-reactance, high-power factor (70-150W HPS) or constant-wattage autotransformer (175 and above HPS, MH), copper wound and 100% factory tested. UL Listed.

**Socket** – Porcelain, vertically or horizontally oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

**Installation** – Corrosion-resistant, heavy-duty painted steel yoke. External screws treated for corrosion resistance. Above-horizontal aiming standard.

### Listings

UL Listed (standard) (ambient temperature 25°C for 320W and above and 200S, 40°C for 250W and below). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.

**lightquick<sup>®</sup> XD**  
Express delivery products.

See page 11 for details about LightQuick XD.

#### Description

**TFL 400M RA2 TB LPI**

**TFL**  
*Contour<sup>®</sup>*



Example: **TFL 400S RA2 TB LPI**

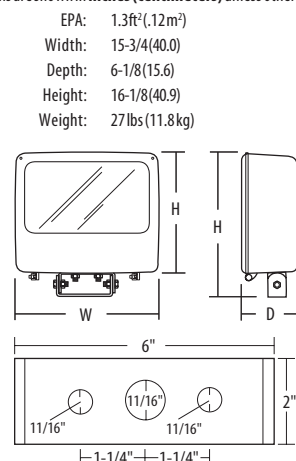
### Ordering Information

Designation	Distribution	Voltage	Installed	Options/accessories
<b>High pressure sodium, vertical lamp</b>		<b>120</b>	<b>Installed</b>	<b>Shipped separately</b>
<b>TFL 70S</b>	<b>TA2 (7x6)</b>	<b>208<sup>4</sup></b>	<b>LPI</b> Lamp included	<b>TFLWG</b> Wireguard <sup>15</sup>
<b>TFL 100S</b>	<b>TA2</b>	<b>240<sup>4</sup></b>	<b>L/LP</b> Less lamp	<b>TFLVG</b> Vandal guard <sup>15</sup>
<b>TFL 150S</b>	<b>TA2</b>	<b>277</b>	<b>SF</b> Single fuse, 120V, 277V, 347V <sup>8</sup>	<b>TFLUV</b> Upper visor <sup>15</sup>
<b>TFL 200S</b>	<b>TA2</b>	<b>347</b>	<b>DF</b> Double fuse, 208V, 240V, 480V <sup>8</sup>	<b>TFLFV</b> Full visor <sup>15</sup>
<b>Metal halide, vertical lamp</b>		<b>480<sup>5</sup></b>	<b>EC</b> Emergency circuit <sup>9,10</sup>	<b>FTS</b> Tenon slipfitter (2-3/8" to 2-7/8" OD tenon) <sup>13</sup>
<b>TFL 150M<sup>1</sup></b>	<b>TA2</b>	<b>TB<sup>6</sup></b>	<b>QRS</b> Quartz restrike system <sup>9,10</sup>	<b>FRWB</b> Radius wall bracket <sup>16</sup>
<b>TFL 175M</b>	<b>TA2</b>	<b>TBV<sup>7</sup></b>	<b>CR</b> Enhanced corrosion resistance	<b>FWPB</b> Wall/wood, pole/pipe bracket <sup>13</sup>
<b>TFL 200M<sup>2</sup></b>	<b>TA2</b>		<b>CR</b> Non-stick protective coating <sup>11</sup>	<b>FSPB</b> Steel square pole bracket (for use with existing poles) <sup>16</sup>
<b>TFL 250M<sup>1</sup></b>	<b>TA2</b>		<b>PER</b> NEMA twist-lock receptacle <sup>12</sup>	<b>FSAB</b> Steel angle bracket <sup>13</sup>
<b>High pressure sodium, horizontal lamp</b>			<b>IS</b> Integral slipfitter(2-3/8" OD max. tenon)	<b>FCRA</b> Crossarm adapter (horizontal) <sup>13</sup>
<b>TFL 250S</b>	<b>RA2 (7x6)</b>		<b>CF</b> Charcoal filter	<b>FCRA45</b> Crossarm adapter (45° from horizontal) <sup>13</sup>
<b>TFL 400S</b>	<b>RA2</b>		<b>C62</b> 2' 16-3 cord prewired <sup>13</sup>	<b>FPMB</b> Wood pole/pipe/wall-mounting bracket (includes FCRA) <sup>13</sup>
<b>Metal halide, horizontal lamp</b>			<b>C42</b> 2' 14-3 cord prewired <sup>13</sup>	<b>PE1</b> NEMA twist-lock photocontrol (120V, 208V, 240V) <sup>17</sup>
<b>TFL 200M<sup>2</sup></b>	<b>RA2</b>		<b>C22</b> 2' 12-3 cord prewired <sup>13</sup>	<b>PE3</b> NEMA twist-lock photocontrol (347V) <sup>17</sup>
<b>TFL 250M<sup>1</sup></b>	<b>RA2</b>		<b>CSA</b> CSA Certified <sup>14</sup>	<b>PE4</b> NEMA twist-lock photocontrol (480V) <sup>17</sup>
<b>TFL 320M<sup>2</sup></b>	<b>RA2</b>		<b>NOM</b> NOM Certified (consult factory)	<b>PE7</b> NEMA twist-lock photocontrol (277V) <sup>17</sup>
<b>TFL 350M<sup>2</sup></b>	<b>RA2</b>		<b>SCWA</b> Super CWA pulse start ballast (n/a HPS or 175M)	<b>SC</b> Shorting cap
<b>TFL 400M<sup>1,3</sup></b>	<b>RA2</b>			<b>TM</b> Tenon mount <sup>16</sup>

#### NOTES:

- 1 May be ordered with SCWA.
- 2 Must be ordered with SCWA.
- 3 Requires T-15, ED or BT28 reduced jacket lamp.
- 4 Consult factory for availability in Canada.
- 5 Not available in Canada.
- 6 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 7 Optional 5-tap ballast (120, 208, 240, 277, 480V), n/a in Canada.
- 8 Not available with multi-tap ballast.
- 9 Lamp not included.
- 10 Quartz lamp wattage not to exceed ballast wattage rating.
- 11 Black finish only.
- 12 Photocell not included.
- 13 Yoke mount only.
- 14 Not available with TBV.
- 15 Field modification required unless ordered with fixture.
- 16 Requires IS or FTS slipfitter.
- 17 PER must be ordered with fixture.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.



For optional architectural colors, see page 543.

Lamp/Fixture Data					
Wattage	Dist.	Ballast	Lamp type	Beam spread H°xV°	NEMA dist.
<b>High pressure sodium (mog/clear)</b>					
100	TA2	HX-HPF	E17	148x123	7x6
150	TA2	HX-HPF	E17	155x119	7x6
250	RA2	CWA	BT28	143x111	7x6
400	RA2	CWA	BT28	143x111	7x6
<b>Metal halide (mog/clear)</b>					
175	TA2	CWA	BT28	147x122	7x6
250	RA2	CWA	BT28	140x104	7x6
400	RA2	CWA	BT28	145x100	7x6

## Specification Medium Floodlights

# TFR

Contour®



### Ordering Information

Designation	Distribution
<b>High pressure sodium</b>	<b>TA</b> (7x6) (n/a 150S)
<b>TFR 150S</b>	<b>RB</b> (6x6)
<b>TFR 250S</b>	<b>RC</b> (5x5)
<b>TFR 400S</b>	
<b>Metal halide</b>	
<b>TFR 150M<sup>2</sup></b>	
<b>TFR 175M</b>	
<b>TFR 200M<sup>1</sup></b>	
<b>TFR 250M<sup>2</sup></b>	
<b>TFR 320M<sup>1</sup></b>	
<b>TFR 350M<sup>1</sup></b>	
<b>TFR 400M<sup>2</sup></b>	

Lamp/Fixture Data					
Wattage	Dist.	Ballast	Lamp type	Beam spread H°xV°	NEMA dist.
<b>High pressure sodium (mog/clear)</b>					
150	RB	XHP	E17	114x107	6x6
150	RC	XHP	E17	100x92	5x5
250	TA	CWA	ET18	132x118	7x6
250	RB	CWA	ET18	110x104	6x6
250	RC	CWA	ET18	99x97	5x5
400	TA	CWA	ET18	132x118	7x6
400	RB	CWA	ET18	110x104	6x6
400	RC	CWA	ET18	99x97	5x5
<b>Metal halide (mog/clear)</b>					
175	TA	CWA	BT28	132x111	7x6
175	RB	CWA	BT28	121x91	6x5
175	RC	CWA	BT28	100x90	5x5
250	TA	CWA	BT28	132x111	7x6
250	RB	CWA	BT28	121x91	6x5
250	RC	CWA	BT28	100x90	5x5
400	TA	CWA	BT37	138x119	7x6
400	RB	CWA	BT37	124x107	6x6
400	RC	CWA	BT37	96x100	5x5

### Intended Use

For recreation areas, parking lots, building facades and car lots.

### Features

**Housing** – Compact, soft corner, die-cast aluminum housing and front cover. Front bezel is removable via position-oriented hinge-cam design and is fully sealed with one-piece, bonded silicone gasket. Lens is thermal- and shock-resistant clear tempered glass. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

**Optics** – Die-formed, anodized aluminum reflectors provide rectangular, uniform distributions. Three available beam distributions for maximum flexibility in area lighting applications. **Does not require use of reduced-size lamp.**

**Electrical** – Components mounted to cast-aluminum housing, promoting maximum heat dissipation. Ballast is high-reactance HPF (70-150W HPS). 150M ballast is high reactance HPF constant-wattage autotransformer (175W and above HPS, MH),

copper wound and 100% factory tested. UL Listed.

**Socket** – Porcelain (medium base: 150M; mogul base: all others) horizontally oriented with copper alloy, nickel plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

**Installation** – Corrosion-resistant, heavy-duty painted steel mounting yoke. External screws treated for corrosion resistance. Above-horizontal aiming standard.

### Listings

UL Listed (standard) (ambient temperature 25°C for 320W and above, 40°C for 250W and below). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.

**lightquick<sup>®</sup> XD**  
Express delivery products.

See page 11 for details about LightQuick XD.

Description

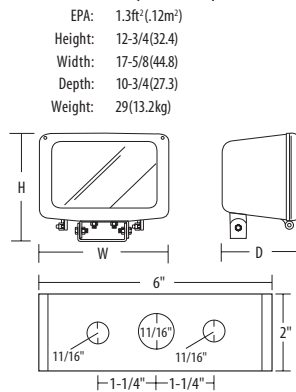
**TFR 400M TA TB LPI**

Example: **TFR 400M TA TB LPI**

Voltage	Installed	Options/accessories
<b>120</b>	<b>SF</b> Single fuse, 120V, 277V, 347V <sup>7</sup>	<b>Shipped separately</b>
<b>208<sup>3</sup></b>	<b>DF</b> Double fuse, 208V, 240V, 480V <sup>7</sup>	<b>TFRWG</b> Wireguard <sup>14</sup>
<b>240<sup>3</sup></b>	<b>EC</b> Emergency circuit <sup>8,9</sup>	<b>TFRVG</b> Vandal guard <sup>14</sup>
<b>277</b>	<b>QRS</b> Quartz restrike system <sup>8,9</sup>	<b>TFRUV</b> Upper visor <sup>14</sup>
<b>347</b>	<b>CR</b> Enhanced corrosion resistance	<b>TFRFV</b> Full visor <sup>14</sup>
<b>480<sup>4</sup></b>	<b>CRT</b> Non-stick protective coating <sup>10</sup>	<b>FRWB</b> Radius wall bracket <sup>15</sup>
<b>TB<sup>5</sup></b>	<b>PER</b> NEMA twist-lock photoelectric receptacle <sup>11</sup>	<b>FSAB</b> Steel angle bracket <sup>12</sup>
<b>TBV<sup>6</sup></b>	<b>IS</b> Integral slipfitter (2-3/8" O D tenon)	<b>FWPB</b> Wall/wood, pole/pipe bracket <sup>12</sup>
	<b>LPI</b> Lamp included	<b>FSPB</b> Steel square pole bracket (for use with existing poles) <sup>15</sup>
	<b>L/LP</b> Less lamp	<b>FTS</b> Tenon slipfitter (2-3/8" to 2-7/8" OD tenon) <sup>12</sup>
	<b>C22</b> 2' 12-3 cord pre-wired	<b>FCRA</b> Crossarm adapter (horizontal) <sup>12</sup>
	<b>C42</b> 2' 14-3 cord pre-wired	<b>FCRA45</b> Crossarm adapter 45° from horizontal <sup>12</sup>
	<b>C62</b> 2' 16-3 cord pre-wired	<b>FPMB</b> Wood pole/pipe/wall mounting bracket (includes FCRA) <sup>12</sup>
	<b>CF</b> Charcoal filter	<b>TM</b> Tenon mount <sup>15</sup>
	<b>CSA</b> CSA Certified <sup>13</sup>	<b>EY</b> Extended yoke
	<b>NOM</b> NOM Certified (consult factory)	<b>PE1</b> NEMA twist-lock photocontrol (120V, 208V, 240V) <sup>16</sup>
	<b>SCWA</b> Super CWA pulse start ballast (n/a HPS or 175M)	<b>PE3</b> NEMA twist-lock photocontrol (347V) <sup>16</sup>
		<b>PE4</b> NEMA twist-lock photocontrol (480V) <sup>16</sup>
		<b>PE7</b> NEMA twist-lock photocontrol (277V) <sup>16</sup>
		<b>SC</b> Shorting cap for PER option

For optional architectural colors, see page 543.

Dimensions are shown in **inches (centimeters)** unless otherwise noted.



### NOTES:

- 1 Must be ordered with SCWA.
- 2 May be ordered with SCWA.
- 3 Consult factory for availability in Canada.
- 4 Not available in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V), n/a in Canada.
- 7 Not available in multi-tap ballast.
- 8 Lamp not included.
- 9 Quartz lamp wattage not to exceed ballast wattage rating.
- 10 Black finish only.
- 11 Photocell not included.
- 12 Yoke mounting only.
- 13 Not available with TBV.
- 14 Field modification required unless ordered with fixture.
- 15 Requires IS or FTS slipfitter.
- 16 PER must be ordered with fixture.

www.lithonia.com, keyword: **TFR**

Specification Mini Floodlights

**TFM**  
Contour®



Example: TFM 175M RB 120 LPI

**Intended Use**

For signs, flags, building facades and landscaping.

**Features**

Housing – Compact, heavy-duty construction. Die-cast aluminum housing and removable front bezel. Lens is thermal and shock-resistant, clear tempered glass. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Hydroformed, anodized aluminum, faceted parabolic (RB, RG) or die-formed (TA) construction provides high efficiencies.

Electrical – Ballast is high-reactance, high-power factor for 50-150W metal halide or constant wattage autotransformer for 175W metal halide. Ballast is reactor normal-power factor for high pressure sodium (XHP available). Ballast is copper wound and 100% factory tested. UL Listed. Electrical components mounted to the cast-aluminum housing for maximum heat-dissipation.

Socket – Porcelain, medium-base, horizontally-

oriented (RB, RG) or vertically-oriented (TA) socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V. 4-pin socket for compact fluorescent.

Installation – Die-cast aluminum 1/2" NSPM threaded mounting knuckle is standard. Corrosion-resistant painted steel yoke optional. Above-horizontal aiming standard. External screws treated for corrosion resistance.

**Listings**

UL Listed (standard) (ambient temperature 25°C for 150M and above, 40°C for 100M and below; 150S and below). CSA Certified or NOM Certified (see Options). UL Listed for wet locations. IP65 rated.

**lightquick<sup>®</sup> XD**  
Express delivery products.

See page 11 for details about LightQuick XD.

---

*Description*

---

**TFM 175M RB TB LPI**

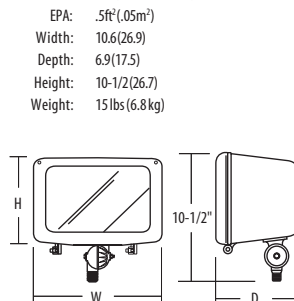
**Ordering Information**

Designation	Distribution	Voltage	Options/accessories	
<b>High pressure sodium</b>				
TFM 35S <sup>1</sup>	TA (7x6) <sup>2</sup>	120	<b>Installed</b> <b>SF</b> Single fuse, 120V, 277V, 347V <sup>8,9</sup> <b>DF</b> Double fuse, 208V, 240V, 480V <sup>8,9</sup> <b>GMF</b> Internal slow-blow fuse, CF only (n/a MVOLT) <b>CR</b> Enhanced corrosion resistance <b>CRT</b> Non-stick protective coating <sup>10</sup> <b>PE</b> Photoelectric cell, button type (n/a 480V) <sup>8</sup> <b>XHP</b> High reactance high power factor ballast <sup>11</sup> <b>LPI</b> Lamp included <b>L/LP</b> Less lamp <b>YK</b> Yoke mounting <b>C62</b> 2' 16-3 cord pre-wired <b>C42</b> 2' 14-3 cord pre-wired <b>C22</b> 2' 12-3 cord pre-wired  <b>Options/accessories</b> <b>CSA</b> CSA Certified <sup>13</sup> <b>NOM</b> NOM Certified (consult factory) <b>SCWA</b> Super CWA pulse start ballast (only available in 150M with TA distribution)  <i>Shipped separately</i> <b>TFMWG</b> Wireguard <b>TFMVG</b> Vandal guard <b>TFMUV</b> Upper visor <sup>14</sup> <b>TFMFV</b> Full visor <sup>14</sup> <b>TFMTS</b> Tenon slipfitter (2-3/8" OD tenon, for ground mounting only) <b>TM</b> Tenon mount <sup>15</sup>  For optional architectural colors, see page 543.	
TFM 50S	RB (6x6)	208 <sup>3</sup>		
TFM 70S	RG (3x3)	240 <sup>3</sup>		
TFM 100S		277		
TFM 150S		480 <sup>4</sup>		
<b>Metal halide</b>				
TFM 50M		TB <sup>5</sup>		
TFM 70M		TBV <sup>6</sup>		
TFM 100M		MVOLT <sup>7</sup>		
TFM 150M				
TFM 175M				
<b>Compact fluorescent</b>				
TFM 13DTT				
TFM 18DTT				
TFM 26DTT				
TFM 32TRT				
TFM 42TRT				

NOTES:

- 1 120V only, n/a XHP.
- 2 TA distribution not available with 175M, compact fluorescent lamps, TBV or fusing.
- 3 Consult factory for availability in Canada.
- 4 Not available in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V), n/a in Canada.
- 7 Optional multi-volt electronic ballast (for compact fluorescent lamps only) capable of operating on any line voltage from 120V-277V.
- 8 Not available in multi-tap ballast.
- 9 Not available with TA reflector.
- 10 Black finish only.
- 11 Available for 120V only. Standard for 208V, 240V, 277V, 347V, TB and TBV.
- 12 Yoke mounting only.
- 13 Not available with TBV.
- 14 Field modification required unless ordered with fixture.
- 15 Requires TFMTS.

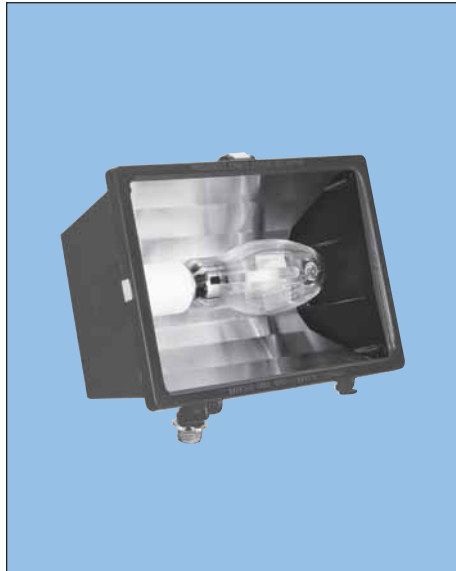
Dimensions are shown in **inches (centimeters)** unless otherwise noted.



Lamp/Fixture Data					
Wattage	Dist.	Ballast	Lamp type	Beam spread H°xV°	NEMA dist.
<b>High pressure sodium (med/clear)</b>					
70	RB	RNP or XHP	E17	94x104	5x6
70	RG	RNP or XHP	E17	42x35	3x3
70	TA	RNP or XHP	E17	131x103	7x6
150	RB	RNP or XHP	E17	88x95	5x5
150	RG	RNP or XHP	E17	57x65	4x4
150	TA	RNP or XHP	E17	131x103	7x6
<b>Metal halide (med/clear)</b>					
100	RB	XHP	E17	83x108	5x6
100	RG	XHP	E17	58x60	4x4
100	TA	XHP	E17	128x107	6x6
175	RB	CWA	ED17	97x105	5x6
175	RG	CWA	ED17	42x35	4x4
<b>Fluorescent</b>					
26DTT	RB	electronic, HPF	T4	125x132	6x6
42TRT	RB	electronic, HPF	T4	120x122	6x6

## General Purpose Micro Floodlights

# TFS



### Intended Use

For signs, landscaping and commercial or residential building facades.

### Features

**Housing** – Compact, rugged die-cast aluminum housing is ribbed for maximum heat dissipation. Hinged die-cast aluminum door frame inhibits the entrance of external contaminant. Finish is bronze polyester powder.

**Optics** – Anodized aluminum reflector with high efficiency and wide beamspread. Tempered glass lens. Medium-base, E17 lamp included in carton as standard.

**Electrical** – Reactor HPS or high-reactance (MH) normal power factor.

**Installation** – Adjustable mounting knuckle with 1/2" NPS threaded stem mounts to standard outlet boxes.

### Listings

UL Listed to U.S. and Canadian safety standards. UL/C-UL Listed for wet locations.

**lightquick<sup>®</sup> XD**  
Express delivery products.

See page11 for details about LightQuick XD.

### Description

**TFS 150S 120 LPI**

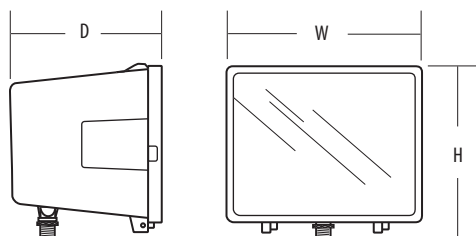
### Ordering Information

Designation	Voltage	Options
High pressure sodium	<b>120</b>	<b>LPI</b> Lamp included (std.)
<b>TFS 50S</b>		
<b>TFS 70S</b>		
<b>TFS 100S</b>		
<b>TFS 150S</b>		
Metal halide		
<b>TFS 70M</b>		

Example: **TFS 50S 120 LPI**

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

Width: 8-7/8(22.5)  
Depth: 6-1/8(15.6)  
Height: 6.5(16.5m)  
Max. weight: 6.48lbs(2.94kg)



[www.lithonia.com](http://www.lithonia.com), keyword: **TFS**

## General Purpose Micro Floodlights

### Intended Use

For signs, landscaping, and commercial or residential building facades.

### Features

**Housing** – Compact, rugged, die-cast aluminum housing is ribbed for maximum heat dissipation. TQE lens attaches via tool-less clips. TQ, TQ 1500 and TCF door frame is die-cast aluminum with tool-less latch closure. Standard finish is bronze polyester powder.

**Optics** – Anodized aluminum reflector with high efficiency and wide beamspread. Tempered glass lens with high temperature gasketing. TQ: 500W models include double-ended quartz 500W lamp. 1500W models do not include double-ended quartz 1500W lamp. TCF: 13W twin-tube compact fluorescent lamps.

**Installation** – Adjustable mounting knuckle with 1/2" NPS threaded stem. Mounts to standard outlet boxes.

### Listings

UL Listed to U.S. and Canadian safety standards. UL/C-UL Listed for wet locations.

# TQ/TQE/TCF



**lightquick<sup>®</sup> XD**  
Express delivery products.  
See page 11 for details about LightQuick XD.

---

*Description*

**TQ 500 120 LPI**

### Ordering Information

Example: **TQ 1500 L/LP**

Designation	Voltage	Options
Quartz <b>TQ 1500</b>	Determined by lamp (277V max.)	<b>L/LP</b> Lamp NOT included (must be supplied by others)

### Ordering Information

Example: **TQE 500 120 LPI**

Designation	Voltage	Options
Quartz <b>TQE 500</b> <b>TQ 500</b>	<b>120</b>	(blank) Bronze <b>DWH</b> White <b>LPI</b> Lamp included

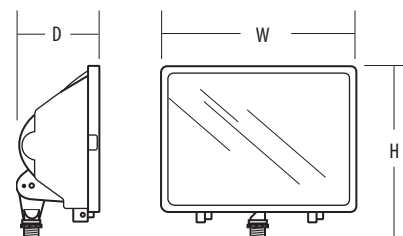
### Ordering Information

Example: **TCF 2/13TT 120 LPI**

Designation	Voltage	Options
Compact fluorescent <b>TCF 13TT</b> <b>TCF 2/13TT</b>	<b>120</b>	<b>LPI</b> Lamp(s) included

Dimensions are shown in inches (centimeters) unless otherwise noted.

	TQ1500	TQ/TQE500	TCF
Width:	13(33.0)	8-7/8(22.5)	8-7/8(22.5)
Depth:	6(15.2)	3-1/2(8.9)	3-1/2(8.9)
Height:	8-1/4(21.0)	6-1/2(16.5)	6-1/2(16.5)
Max. weight:	6lbs(2.72kg)	2.07lbs(.93kg)	2.07lbs(.93kg)



## General Purpose Floodlights

# TSL



### Intended Use

Interstate highway signage, outdoor advertising, traffic flow signs and building facades.

### Features

**Housing** – Die-cast low copper content aluminum housing offers superior durability and corrosion resistance. Hinged door easily removable for quick maintenance. Single fastener makes re-lamping easy (optional tool-less entry available).

**Optics** – Anodized aluminum reflector provides uniform lighting distribution with choice of flat tempered glass or sag tempered glass lens.

**Electrical** – Standard ballast varies by wattage and source and can be specified. 250W and above standard constant wattage autotransformer. Reactor (normal and high power factor), high reactance lag (normal and high power factor),

isolated coil, magnetic regulator, and pulse-start ballasts are available (consult factory).

**Installation** – Standard product mounts to 2-3/8" tenon. Other mounting options are available, (consult factory).

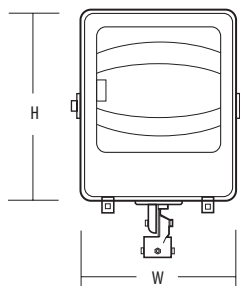
### Listings

UL Listed (standard). UL Listed for wet locations. Complies with ANSI: C136.2, C136.10, C136.15.

### Ordering Information

Example: **TSL 200S RM FL 120 PER LPI**

Series	Wattage	Distribution	Lens	Voltage	Ballast options <sup>3</sup>	Options/accessories
<b>TSL</b>	<u>High pressure sodium</u>	<b>RM</b> (5Hx6V) <b>RB</b> (6Hx6V)	<b>FL</b> Flat lens, tempered glass (clear) <b>SLG</b> Sag lens, tempered glass (clear)	<b>120</b>	<b>RNP</b> Reactor normal power factor <sup>4</sup>	<u>Installed</u> <b>LPI</b> Lamp included <b>LPIC</b> Lamp included (deluxe/coated) <b>L/LP</b> Less lamp <b>PER</b> NEMA twist-lock receptacle only (photocontrol not included) <b>PEU</b> NEMA twist-lock PE <b>CF</b> Charcoal filter <b>OPS</b> Open plug-in starter <sup>4</sup> <b>ENP</b> Encapsulated plug-in starter <sup>4</sup> <b>ENX</b> External encapsulated plug-in starter <sup>4</sup> <b>T2P</b> Terminal block-two position wired L1, L2 <b>T3P</b> Terminal block-three position wired L1, N, L2 <b>CSA</b> CSA Certified <b>NML</b> NEMA label <b>TLS</b> Tool-less access <b>HSS</b> Stainless steel external hardware <b>LSA</b> Single lighting surge arrester <sup>6</sup> <b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB) <sup>6,7</sup> <b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB) <sup>6,7</sup> <b>GYK</b> Yoke galvanized <b>YK</b> Yoke painted <u>Shipped separately<sup>8</sup></u> <b>SC</b> Shorting cap for PER option <u>Architectural colors</u> <b>DWH</b> White finish <b>DDB</b> Dark bronze finish <b>DBL</b> Black finish
	<b>100S</b>			<b>208</b>	<b>RHP</b> Reactor high power factor <sup>4</sup>	
	<b>150S</b>	<b>220</b>	<b>50HZ</b> 50 hertz			
	<b>200S</b>	<b>240</b>	<b>MRB</b> Mag reg ballast			
	<b>250S</b>	<b>277</b>	<b>CWI</b> CWI ballast			
	<b>310S</b>	<b>480</b>	<b>CWA</b> Constant wattage autotransformer			
	<b>250/400S</b>	<b>TB<sup>1,2</sup></b>	<b>XHP</b> High reactance (lag) high power factor <sup>4</sup>			
	<b>400/250S</b>	<b>TB<sup>1,2</sup></b>	<b>XNP</b> High reactance (lag) normal power factor <sup>4</sup>			
	<b>400S</b>	<b>TB<sup>3,1,2</sup></b>	<b>SCWA</b> Super CWA pulse start <sup>5</sup>			
	<u>Metal halide</u>	<b>120/240</b>				
	<b>175M</b>	<b>240/120</b>				
	<b>250M</b>	<b>240/480</b>				
	<b>250/400M</b>	<b>480/240</b>				
	<b>400/250M</b>					
	<b>400M</b>					
	<u>Mercury vapor</u>					
	<b>100MV</b>					
	<b>175MV</b>					
	<b>250MV</b>					
	<b>400MV</b>					



Dimensions are shown in **inches (centimeters)** unless otherwise noted.

EPA: 1.75 ft<sup>2</sup> (.16m<sup>2</sup>)  
Width: 19.5(49.5)  
Height: 21-1/4(54)  
Max. weight: 37 lbs (16.8 kg)

### NOTES:

- Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277V. Others are 1=120V; 2=208V; 3=240V.
- Not available with RNP or RHP.
- Not all ballast options are available with all wattage/sources, consult factory.
- HPS only.
- Pulse start MH only.
- 120V, 277V only, n/a TB.
- Not available with UL or CSA options.
- May be ordered as an accessory.



## High-Performance Floodlights

# 170S



Shown with FTS mounting option

Example: 170S 400S HPN 120 SF LPI

### Intended Use

For airport aprons or parking areas.

### Features

**Housing** – Rugged, heavy-gauge, aluminum housing. Continuous welded seams for weather-tight integrity. Aluminum door frame secured with four stainless steel latches. Thermal-resistant and shock-resistant tempered flat lens. Dark bronze (DDB) corrosion-resistant polyester powder finish; other architectural colors available. Architectural Class 1 anodize finish also available.

**Optics** – Anodized aluminum reflector with internal glare control louver, painted matte black to provide an asymmetrical beam pattern with sharp vertical cutoff.

**Electrical** – Constant wattage autotransformer ballast, copper wound and 100% factory tested.

**Socket** – Horizontal, mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V, 4KV pulse rated.

**Installation** – Painted steel yoke, complete with vertical angle selector, retaining stop and 3-foot, 14/3 cable is standard.

### Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.

### Ordering Information

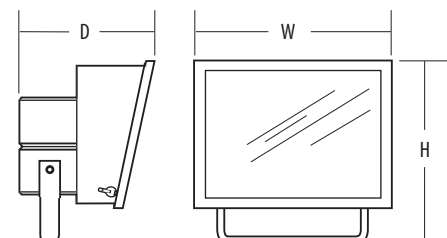
Designation	Distribution	Voltage	Optional mounting	Options/accessories	
<u>High pressure sodium</u>					
170S 250S	HPN	120	<u>Shipped separately</u>	<u>Installed</u>	
170S 400S		208 <sup>4</sup>			LPI Lamp included
170S 750S		240 <sup>4</sup>			L/LP Less lamp
170S 1000S		277			SF Single fuse, 120V, 277V, 347V (n/a TB)
		347			DF Double fuse, 208V, 240V, 480V (n/a TB)
<u>Metal halide</u>					
170S 320M <sup>1</sup>		480 <sup>4</sup>	TS Tenon slipfitter (2-3/8" OD max.) <sup>6</sup>	PER NEMA twist-lock receptacle only <sup>11</sup>	
170S 350M <sup>1</sup>		TB <sup>5</sup>	FCRA45 Crossarm adapter <sup>6</sup>	CSA CSA Certified	
170S 400M <sup>2</sup>			F0RA45 Crossarm adapter (45° from horizontal) <sup>6</sup>	QRS Quartz restrrike <sup>8,9</sup>	
170S 1000M <sup>2,3</sup>			EWB Extended wall bracket <sup>6</sup>	SCWA Super CWA pulse start ballast (n/a HPS)	
			MPB29 Mounting pole bracket for 2 fixtures at 90° <sup>7</sup>	<u>Shipped separately</u>	
			MPB39 Mounting pole bracket for 3 fixtures at 90° <sup>7</sup>	UV Upper visor	
			MPB49 Mounting pole bracket for 4 fixtures at 90° <sup>7</sup>	SC Shorting cap for PER option	

- PE1 NEMA twist-lock photocontrol (120V, 208V, 240V)<sup>10</sup>
  - PE3 NEMA twist-lock photocontrol (347V)<sup>10</sup>
  - PE4 NEMA twist-lock photocontrol (480V)<sup>10</sup>
  - PE7 NEMA twist-lock photocontrol (277V)<sup>10</sup>
- Indoor remote ballast
- HRB HID remote ballast (white)<sup>12</sup>
- Outdoor remote ballast
- HRBW HID remote ballast weatherproof (black)<sup>12</sup>
- For optional architectural colors, see page 543.

Lamp/fixture data					
Wattage	Dist.	Ballast	Lamp type	Beam spread H°xV°	NEMA dist.
<u>High pressure sodium</u>					
250	HPN	CWA	ET18	128x55	6x4
400	HPN	CWA	ET18	129x52	6x4
750	HPN	CWA	BT37	133x57	7x4
1000	HPN	CWA	E25	132x56	7x4
<u>Metal halide</u>					
400	HPN	CWA	BT37	139x68	7x4
1000	HPN	CWA	BT37	138x63	7x4

Dimensions are shown in inches (centimeters) unless otherwise noted.

- EPA: 2.7 ft<sup>2</sup> (.25 m<sup>2</sup>)
- Width: 21 (53.3)
- Height: 20-1/2 (52.1)
- Depth: 19-1/4 (48.9)
- Max. weight: 83 lbs (37.6 kg)

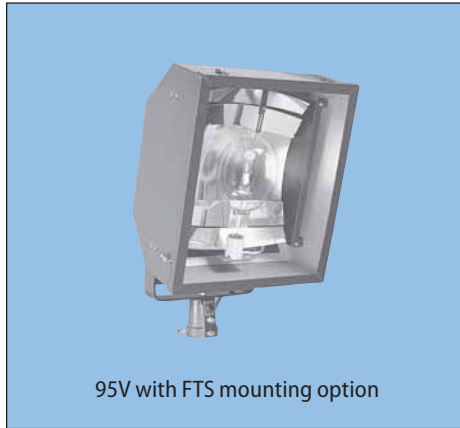


#### NOTES:

- 1 Must be ordered with SCWA.
- 2 May be ordered with SCWA.
- 3 Requires a BT-37 reduced jacket lamp.
- 4 Consult factory for availability in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 For use with YK mounting (standard) only.
- 7 MPB bracket ships separately with junction box and hinge mechanisms. Bracket weight: 12 lbs.
- 8 Lamp not included.
- 9 Quartz lamp wattage not to exceed ballast wattage rating.
- 10 PER must be ordered with fixture.
- 11 Photocell not included.
- 12 Consult factory for availability.

## High-Performance Floodlight

# 95



95V with FTS mounting option

### Intended Use

For large area facade or monument floodlighting.

### Features

Housing – Rugged, heavy-gauge, aluminum housing, horizontal (95) or vertical (95V) lamp orientation. Continuous welded seams, fully gasketed for weathertight integrity. Aluminum door frame secured with four stainless steel latches. Thermal-resistant and shock-resistant tempered flat lens. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder; other architectural colors available. Architectural Class 1 anodize finish also available.

Optics – Segmented anodized aluminum, precisely formed to provide varying rectangular beam patterns (non-rotatable).

Electrical – Constant-wattage autotransformer ballasts, copper wound and 100% factory tested.

Socket – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated. Uses BT 56 lamp.

Installation – Painted steel yoke complete with vertical angle selector stop, re-aiming, and 3-foot, 14/3 cable is standard.

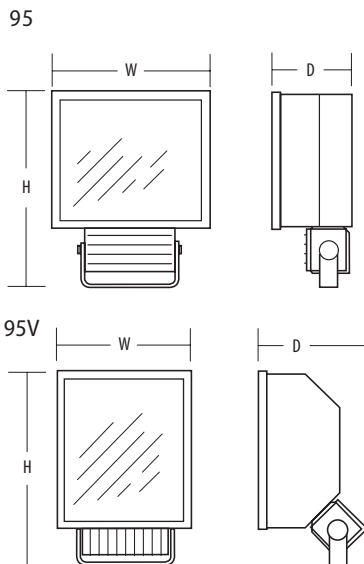
### Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations.

### Ordering Information

Designation	Distribution		Voltage	Optional mounting	Options/accessories
<i>Horizontal housing</i>	<i>Horizontal lamp</i>	<i>Vertical lamp</i>	<b>120</b>	<i>Shipped separately</i>	<i>Installed</i>
High pressure sodium	<b>RMH</b>	<b>RMV</b>	<b>208<sup>4</sup></b>	<b>TS</b> Tenon slipfitter (2-3/8"OD max.) <sup>6</sup>	<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB)
<b>95 1000S</b>	<b>RNH<sup>1</sup></b>	<b>RNV<sup>3</sup></b>	<b>240<sup>4</sup></b>	<b>FCRA</b> Crossarm adapter <sup>6</sup>	<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB)
Metal halide	<b>RWH</b>	<b>RWV</b>	<b>277</b>	<b>FCRA45</b> Crossarm adapter (45° from horizontal) <sup>6</sup>	<b>PER</b> NEMA twist-lock receptacle only <sup>9</sup>
<b>95 1000M</b>	<b>BPH<sup>2</sup></b>	<b>BPV<sup>2</sup></b>	<b>347</b>	<b>EWB</b> Extended wall bracket <sup>6</sup>	<b>CSA</b> CSA Certified
<i>Vertical housing</i>	<b>SPH<sup>2</sup></b>	<b>SPV<sup>2</sup></b>	<b>480<sup>4</sup></b>	<b>AFTM</b> Tenon mount (base mount) <sup>7</sup>	<b>LPI</b> Lamp included
High pressure sodium			<b>TB<sup>5</sup></b>		<b>L/LP</b> Less lamp
<b>95V 1000S</b>					<i>Shipped separately</i>
Metal halide					<b>UV</b> Upper visor
<b>95V 1000M</b>					<b>BV</b> Bottom visor
					<b>FV</b> Full visor (4-sided)
					<b>GV</b> Glare visor (3-sided)
					<b>CV</b> Concentric visor
					<b>VG</b> Vandal guard
					<b>SC</b> Shorting cap for PER option
					<b>PE1</b> NEMA twist-lock photocontrol (120V, 208V, 240V) <sup>8</sup>
					<b>PE3</b> NEMA twist-lock photocontrol (347V) <sup>8</sup>
					<b>PE4</b> NEMA twist-lock photocontrol (480V) <sup>8</sup>
					<b>PE7</b> NEMA twist-lock photocontrol (277V) <sup>8</sup>
					<i>Indoor remote ballast</i>
					<b>HRB</b> HID remote ballast (white) <sup>10</sup>
					<i>Outdoor remote ballast</i>
					<b>HRBW</b> HID remote ballast weatherproof (black) <sup>10</sup>

Example: **95 1000S RMH 120 SF LPI**



Distribution	Distribution Data			
	95V		95	
	<i>1000M</i>	<i>1000S</i>	<i>1000M</i>	<i>1000S</i>
RMH	4x1	5x2	3x5	6x6
RNH	3x1	–	3x3	5x6
RWH	5x1	5x1	3x5	6x6
BPH	–	–	4x5	6x6
SPH	2x1	4x1	–	–
RMV	5x3	6x6	1x4	2x5
RNV	3x3	6x5	1x3	–
RWV	5x4	6x6	1x4	1x5
BPV	5x4	6x6	–	–
SPV	–	–	1x2	1x4

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	95	95V
EPA:	4.7ft <sup>2</sup> (.44m <sup>2</sup> )	4.3ft <sup>2</sup> (.40m <sup>2</sup> )
Width:	24-1/2(62.5)	21(53.5)
Height:	30(77)	30(77)
Depth:	12-1/2(31.8)	18-1/8(46)
Max. weight:	90lbs (40.7kg)	90lbs (40.7kg)

### NOTES:

- Not available with 95 1000S.
- BPH and SPV for use with 95V only. SPH and BPV for use with 95 only.
- Not available with 95V 1000S.
- Consult factory for availability in Canada.
- Multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- For use with YK mounting (standard) only.
- For use with TS option only.
- PER must be ordered with fixture.
- Photocell not included.
- Consult factory for availability.

## 55

### Intended Use

For large area facade or monument floodlighting.

### Features

Housing – Rugged, heavy-gauge, aluminum housing, horizontal (55) or vertical lamp (55V) orientation. Continuous welded seams, fully gasketed for weathertight integrity. Aluminum door frame secured with four stainless steel latches. Thermal-resistant, tempered flat lens. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Architectural class 1 anodize finish also available.

Optics – Anodized aluminum reflector. Seven distributions available to provide varying rectangular beam patterns (non-rotatable).

Electrical – Constant-wattage autotransformer

ballasts, copper wound and 100% factory tested.

Socket – Mogul-base porcelain socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W-600V. 4KV pulse rated.

Installation – Painted, steel yoke complete with angle selector, aiming stop, and 3-foot, 14/3 cable is standard.

### Listings

UL Listed (standard). CSA Certified (see Options).  
UL Listed for wet locations.



Shown with FTS mounting option.

Example: 55 750S RPN 120 SF LPI

### Ordering Information

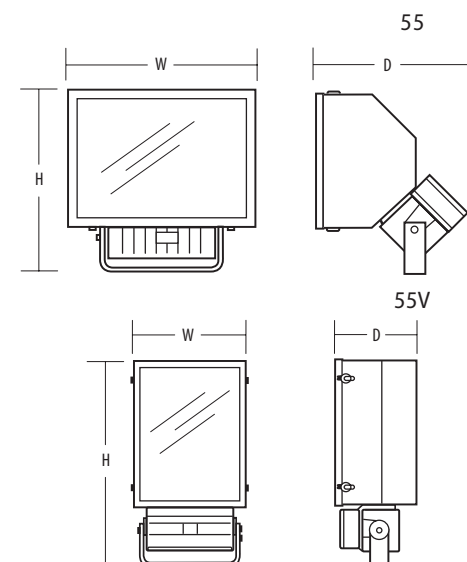
Designation	Distribution	Voltage	Optional mounting	Options/accessories
<i>Horizontal housing &amp; lamp</i>	<b>RME</b> <sup>3</sup>	<b>120</b>	<i>Shipped separately</i>	<b>Installed</b>
<i>High pressure sodium</i>	<b>RNE</b> <sup>3</sup>	<b>208</b> <sup>5</sup>	<b>TS</b> Tenon slipfitter (2-3/8"OD max.) <sup>7</sup>	<b>SF</b> Single fuse, 120V, 277V, 347V (n/a TB)
<b>55 750S</b>	<b>RPN</b> <sup>3</sup>	<b>240</b> <sup>5</sup>	<b>FCRA</b> Crossarm adapter <sup>7</sup>	<b>DF</b> Double fuse, 208V, 240V, 480V (n/a TB)
<b>55 1000S</b>	<b>RWE</b> <sup>3</sup>	<b>277</b>	<b>FCRA45</b> Crossarm adapter (45° from horizontal) <sup>7</sup>	<b>PER</b> NEMA twist-lock receptacle only <sup>12</sup>
<i>Metal halide</i>	<b>RNA</b> <sup>4</sup>	<b>347</b>	<b>EWB</b> Extended wall bracket <sup>7</sup>	<b>CSA</b> CSA Certified
<b>55 320M</b> <sup>1</sup>	<b>RMA</b> <sup>4</sup>	<b>480</b> <sup>5</sup>	<b>AFTM</b> Tenon mount (base mount) <sup>8</sup>	<b>LPI</b> Lamp included
<b>55 350M</b> <sup>1</sup>	<b>RWA</b> <sup>4</sup>	<b>TB</b> <sup>6</sup>		<b>L/LP</b> Less lamp
<b>55 400M</b> <sup>2</sup>				<b>QRS</b> Quartz restrrike <sup>9,10</sup>
<b>55 1000M</b> <sup>2</sup>				<b>SCWA</b> Super CWA pulse start ballast (n/a HPS)
<i>Vertical housing &amp; lamp</i>				<i>Shipped separately</i>
<i>High pressure sodium</i>				<b>UV</b> Upper visor
<b>55V 750S</b>				<b>BV</b> Bottom visor
<b>55V 1000S</b>				
<i>Metal halide</i>				
<b>55V 320M</b> <sup>1</sup>				
<b>55V 350M</b> <sup>1</sup>				
<b>55V 400M</b> <sup>2</sup>				
<b>55V 1000M</b> <sup>2</sup>				

- FV** Full visor (4-sided)
  - GV** Glare visor (3-sided)
  - VG** Vandal guard
  - SC** Shorting cap for PER option
  - PE1** NEMA twist-lock photocontrol (120V, 208V, 240V)<sup>11</sup>
  - PE3** NEMA twist-lock photocontrol (347V)<sup>11</sup>
  - PE4** NEMA twist-lock photocontrol (480V)<sup>11</sup>
  - PE7** NEMA twist-lock photocontrol (277V)<sup>11</sup>
  - Indoor remote ballast*
  - HRB** HID remote ballast (white)<sup>13</sup>
  - Outdoor remote ballast*
  - HRBW** HID remote ballast weatherproof (black)<sup>13</sup>
- For optional architectural colors, see page 543.

Distribution Data						
	55			55V		
Distribution	1000M	400M	1000S	1000M	400M	1000S
RME	6x5	6x5	6x5	4x6	5x6	5x6
RNE	6x4	6x4	6x4	4x6	4x6	4x6
RPN	6x2	6x2	5x1	1x6	1x6	1x5
RWE	6x5	6x5	6x5	5x6	5x6	5x6
RNA	5x1	—	—	1x5	—	—
RMA	6x6	—	—	6x6	—	—
RWA	6x5	—	—	6x7	—	—

Dimensions are shown in inches (centimeters) unless otherwise noted.

	55	55V
EPA:	3.5 ft <sup>2</sup> (.33 m <sup>2</sup> )	3.8 ft <sup>2</sup> (.35 m <sup>2</sup> )
Width:	23-1/4(59.1)	17-3/8(44.1)
Height:	23(58.4)	33(83.8)
Depth:	14-1/2(36.8)	12-5/8(32.1)
Max. weight:	91 lbs (41.2 kg)	98 lbs (44.3 kg)



#### NOTES:

- 1 Must be ordered with SCWA.
- 2 May be ordered with SCWA.
- 3 RME, RNE, RPN, RWE require reduced jacket BT-37 lamp with 1000M.
- 4 RMA, RNA, RWA are for use with 1000M only and require standard BT-56 lamp.
- 5 Consult factory for availability in Canada.
- 6 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 7 For use with YK mounting (standard) only.
- 8 For use with TS option only, (TS included).
- 9 Lamp not included.
- 10 Quartz lamp wattage not to exceed ballast wattage rating.
- 11 PER must be ordered with fixture.
- 12 Photocell not included.
- 13 Consult factory for availability.

## Hazardous Location Large Floodlights

# HFA/HFL



### Intended Use

For general to heavy industrial applications, including Class 1, Division 2 classified hazardous locations, marine and corrosive environments or wherever excessive vibration and dirt may exist.

### Features

**Housing** – NEMA heavy-duty constructed housing. Die-cast copper-free (<.4%) aluminum housing with round corners and front bezel. Front bezel is removable via position-oriented hinge-cam design. Lens is thermal and shock-resistant, clear tempered glass with no metal-to-glass contact. Hardware is corrosion-resistant. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

**Optics** – Computer-designed, precision formed reflectors for high performance and efficiency. Premium one-piece silicone gasket seals optical chamber to inhibit entrance of contaminants. HFL 400W metal halide requires an ED28 reduced jacketed lamp.

**Electrical** – Ballast is HPF constant-wattage autotransformer, copper wound and 100% factory tested. Electrical components are mounted to cast aluminum housing, promoting maximum heat dissipation. Accessible through front bezel.

**Socket** – Porcelain, horizontally oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

**Installation** – HFA: front bezel is latched for easy tool-less internal access to optical and electrical compartments. Corrosion-resistant, heavy-duty, painted steel mounting yoke. Three-quarter-inch female threaded conduit hub provided.

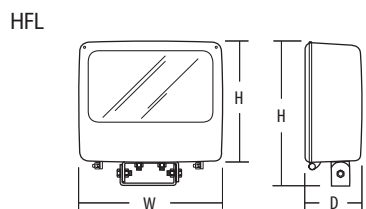
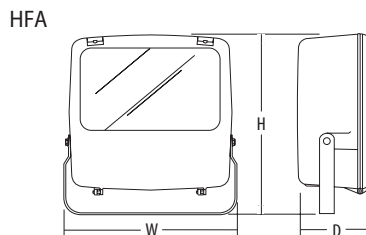
### Listings

UL Listed (standard). CSA Certified (see Options). UL Listed Class 1, Division 2, Groups A, B, C, and D for hazardous locations. UL Listed for marine outside locations. IP65 rated.

### Ordering Information

Designation	Distribution	Voltage	Options
<b>High pressure sodium</b>	<b>HFA</b>	<b>120</b>	<b>Installed</b>
<b>HFA 250S</b>	<b>TA (7x7)</b>	<b>208<sup>2</sup></b>	<b>CR</b> Enhanced corrosion resistance
<b>HFA 400S</b>	<b>RN (6x3)</b>	<b>240<sup>2</sup></b>	<b>CRT</b> Non-stick protective coating <sup>4</sup>
<b>HFL 400S</b>	<b>HFL</b>	<b>277</b>	<b>LPI</b> Lamp included
<b>Metal halide</b>	<b>RA2 (7x6)</b>	<b>347</b>	<b>L/LP</b> Less lamp
<b>HFA 250M</b>		<b>480<sup>2</sup></b>	<b>TP</b> Tamperproof latches (HFA only)
<b>HFA 400M</b>		<b>TB<sup>3</sup></b>	<b>CSA</b> CSA Certified
<b>HFL 400M<sup>1</sup></b>			For optional architectural colors, see page 543.

Example: **HFA 400M TA 120 LPI**



Dimensions are shown in **inches (centimeters)** unless otherwise noted.

	HFA	HFL
EPA:	2.6 ft <sup>2</sup> (.24 m <sup>2</sup> )	1.3 ft <sup>2</sup> (.12 m <sup>2</sup> )
Width:	23-3/4 (60.3)	15-3/4 (40.0)
Depth:	9-3/4 (24.8)	6-1/8 (15.5)
Overall height:	24 (61) (includes yoke)	16-1/8 (40.9) (includes yoke)
Weight:	65 lbs (29.5 kg)	27 lbs (12.3 kg)

### NOTES:

- 1 Must use reduced jacket ED-28 lamp.
- 2 Consult factory for availability in Canada.
- 3 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 4 Black finish only.

Description	Temperature Codes		
	Wattage	T-Code or temp.	Max. internal temp.
HFA	250M	T1	336°C
HFA	400M	T1	343°C
HFA	250S	T1	301°C
HFA	400S	T1	352°C
HFL	400M	T1	433°C
HFL	400S	T1	426°C

Intended Use

For general to heavy industrial applications, including Class 1, Division 2 classified hazardous locations, marine and corrosive environments, or where excessive vibration and dirt may exist.

Features

**Housing** – NEMA heavy-duty constructed housing. Die-cast copper-free (<.4%) aluminum housing with rounded corners and front bezel. Front bezel is removable via position-oriented hinge-cam design. Lens is thermal and shock-resistant, clear tempered glass with no metal-to-glass contact. Hardware is corrosion resistant. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

**Optics** – Computer-designed, precision-formed reflector for high performance and efficiency. Premium one-piece silicone gasket seals optical chamber to inhibit entrance of outside contaminants. **HFR: Does not require use of reduced-size lamp.**

**Electrical** – Ballast is high power factor, high reactance (HFR 150S; HFM 100S and 150S) or constant wattage autotransformer (HFR 250W-400W; HFM 175M) and 100% factory tested. Electrical components mounted to cast aluminum housing, promoting maximum heat dissipation. Accessible through front bezel.

**Socket** – Porcelain, horizontally oriented mogul-base (HFR) or medium-base (HFM) socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V, 4KV pulse rated.

**Installation** – Corrosion-resistant, heavy-duty, painted steel mounting yoke. Three-quarter-inch female threaded conduit hub provided.

Listings

UL Listed (standard). CSA Certified (see Options). UL Listed, Class 1, Division 2, Groups A, B, C, and D for hazardous locations. UL Listed for marine outside locations. IP65 rated.

# HFR/HFM



Example: **HFR 400M TA 120 LPI**

Ordering Information

Designation	Distribution	Voltage	Options
<u>High pressure sodium</u>			
<b>HFR 150S</b>	<b>TA</b> (7x6)	<b>120</b>	<u>Installed</u>
<b>HFR 250S</b>	<b>RB</b> (6x6)	<b>208<sup>1</sup></b>	<b>CR</b> Enhanced corrosion resistance
<b>HFR 400S</b>	<b>RC</b> (5x5)	<b>240<sup>1</sup></b>	<b>CRT</b> Non-stick protective coating <sup>4</sup>
<b>HFM 100S</b>	<u>HFM</u>	<b>277</b>	<b>LPI</b> Lamp included
<b>HFM 150S</b>	<b>RB</b> (6x6)	<b>347</b>	<b>L/LP</b> Less lamp
<u>Metal halide</u>			
<b>HFR 250M</b>	<b>RG</b> (3x3)	<b>480<sup>2</sup></b>	<b>TP</b> Tamperproof latches (HFA only)
<b>HFR 400M</b>		<b>TB<sup>3</sup></b>	<b>CSA</b> CSA Certified
<b>HFM 175M</b>			For optional architectural colors, see page 543.

NOTES:

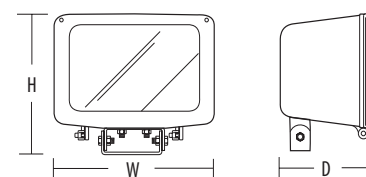
- 1 Consult factory for availability in Canada.
- 2 Not available in Canada.
- 3 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 4 Black finish only.

Temperature Codes			
Description	Wattage	T-Code or temp.	Max. Internal temp.
HFR	250M	T1	347°C
HFR	400M	T1	359°C
HFR	150S	T2B	238°C
HFR	250S	T1	332°C
HFR	400S	T1	376°C
HFM	175M	T1	402°C
HFM	100S	280	280°C
HFM	150S	350	341°C

Dimensions are shown in inches (centimeters) unless otherwise noted.

	HFR	HFM
EPA:	1.3 ft <sup>2</sup> (.12m <sup>2</sup> )	.5 ft <sup>2</sup> (.05 m <sup>2</sup> )
Width:	17-5/8 (44.8)	10-1/2 (26.9)
Depth:	10-3/4 (32.4)	6-3/4 (17.5)
Height:	13 (33.0) (includes yoke)	10-1/2 (26.9) (includes yoke)
Weight:	29 lbs (13.2 kg)	15 lbs (6.8 kg)

HFR/HFM



Motion Activated Security Lighting

# MSE180 FK MSQ240 FK

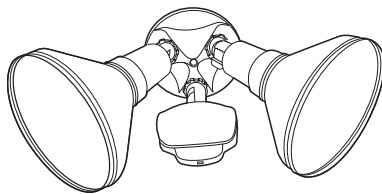


MSE180FK  
Shown with lamp shields installed.

MS180

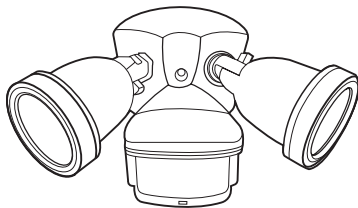
MSQ240FK

MS240



Dimensions are shown in inches (centimeters) unless otherwise noted.

**MSE180FK**  
Width: 8(20.32)  
Depth: 5-1/2(13.97)  
Height: 7-1/2(19.5)  
Weight: 1.6lbs (.725kg)



Dimensions are shown in inches (centimeters) unless otherwise noted.

**MSQ240FK**  
Width: 10(25.4)  
Depth: 5-1/2(13.97)  
Height: 7(17.7)  
Weight: 1.6lbs (.725kg)

Intended Use

Motion activated security lighting for residential or commercial building perimeters.

Features

Construction – Sensor head is UV stabilized polycarbonate with color matched lens. Lamp holders and sensor can be aimed in the field without the use of tools. Dark bronze (DDB) finish is standard. Optional white (DWH) finish is available.

MSE180 FK – Flood kit lamp holders and mounting plate are die cast aluminum. Metal lamp shields are included in the carton as standard for field installation.

MSQ240 FK – Flood kit has decorative lamp enclosures with die cast/glass construction and is sealed to prevent the intrusion of contaminants. Lamp enclosure cover can be removed without the use of tools. Mounting plate is die cast aluminum.

Sensor Operation – Sensor has one LED indicator to confirm proper operation and deter intruders. Sensor features include dusk-to-dawn operation, power on test mode, manual override, sensitivity and time adjustment. All sensor adjustments can be done without tools.

MSE180FK – Coverage zone is 180° with a detection range up to 60 feet.

MSQ240 FK – Coverage zone is 240° with a detection range up to 70 feet. Adjustable photo

control sets the amount of darkness it takes for the motion sensor to activate.

Electrical – Surge protection is built into sensor operation and withstands up to 4000 volts.

MSE180 FK – Up to 300-watt, PAR38 maximum incandescent (150-watt max per socket). 110-120 volt operation.

MSQ240 FK – Up to 200-watt, quartz lamps maximum (100-watt max per socket). 110-120 volt operation.

Socket – MSE180 FK – Lamp holders are medium base with a porcelain outer shell. MSQ240 FK – Lamp holders contain 8mm bi-pin sockets.

Installation – Flood kits are for wall or eave mounting. Round mounting plate fits standard 4" round or square outlet boxes. Plate has one additional 1/2" NPT threaded knockout. Center mounted backplate with adjustable crossbar for easy installation. Gasket seals backplate to mounting surface. All mounting hardware included. Sensor will install to any 1/2" standard threaded cover plate.

Listing

UL Listed to US and Canadian safety standards. UL Listed for wet locations.

Ordering Information

Designation	Wattage
<b>MSE180 FK</b>	I (300W/PAR38 max.)

Example: **MSE180 FK I DWH L/LP**

Options	Lamps
(blank) Dark bronze (std.) <b>DWH</b> White	<b>L/LP</b> Lamp not included

Ordering Information

Designation	Options
<b>MS180</b>	(blank) Dark bronze (std.) <b>DWH</b> White

Example: **MS180 DWH**

Ordering Information

Designation	Wattage
<b>MSQ240 FK</b>	<b>2/100Q</b> (200W max.)

Example: **MSQ240 FK 2/100Q DWH LPI**

Options	Lamps
(blank) Dark bronze (std.) <b>DWH</b> White	<b>LPI</b> Lamps included

Ordering Information

Designation	Options
<b>MS240</b>	(blank) Dark bronze (std.) <b>DWH</b> White

Example: **MS240 DWH**

Intended Use

Motion activated security lighting for residential or commercial building perimeters.

Features

Construction – Flood kit has heavy-duty die-cast aluminum lamp shields and mounting plate. Sensor head is die cast aluminum with color matched lens and protective metal grill. Lamp holders and sensor can be aimed in the field without the use of tools. Dark bronze (DDB) finish is standard. Optional white (DWH) finish is available.

Sensor Operation – Coverage zone is 270° with a detection range up to 100 feet. Sensor has dual LED indicators to confirm proper operation and deter intruders. Sensor features include dusk-to-dawn operation, power on test mode, manual override, sensitivity/time adjustment, internal lens blinder system, solar tracking, dimmer, and adjustable photo control which sets the amount of darkness it takes for the motion sensor to activate. All sensor adjustments can be done without tools and are protected by a covered, recessed control compartment under the sensor.

Electrical – Up to 300-watt, PAR38 maximum incandescent (150-watt max per socket). 110-120 volt operation. Surge protection is built into sensor operation and withstands up to 6000 volts. Sensor has capability of switching alternate sources of up to 1000 watts (including 2 x PAR lamps).

Socket – Lamp holders contain porcelain, medium base sockets.

Installation – Flood kits are for wall or eave mounting. Round mounting plate fits standard 4" round or square outlet boxes. Plate has one additional 1/2" NPT threaded knockout. Center mounted backplate with adjustable crossbar for easy installation. Gasket seals backplate to mounting surface. All mounting hardware included. Sensor will install to any 1/2" standard threaded cover plate.

Listing

UL Listed for wet locations. Listed and labeled to comply with U.S. and Canadian standards.

# MSP270 FK



**NEW**

MSP270FK

MS270

Ordering Information

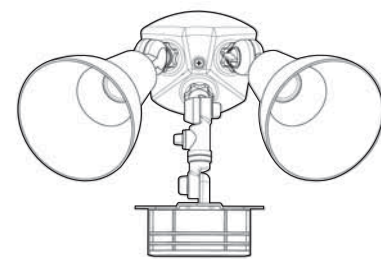
Example: **MSP270 FK I DWH L/LP**

Designation <b>MSP270 FK</b>	Wattage I (300W/PAR38 max.)	Options (blank) Dark bronze (std.) <b>DWH</b> White	Lamps <b>L/LP</b> Lamp not included
---------------------------------	--------------------------------	---	--

Ordering Information

Example: **MS270 DWH**

Designation <b>MS270</b>	Options (blank) Dark bronze (std.) <b>DWH</b> White
-----------------------------	---



Dimensions are shown in inches (centimeters) unless otherwise noted.

	<i>MSP270FK</i>
Width:	15 (38.1)
Depth:	9-1/2 (24)
Height:	9 (22.9)
Weight:	3.1 lbs (1.4kg)

## Sportslighters

## TSP

Tru-Sport®



## Intended Use

For stadiums, fields, arenas, tracks or courts.

## Features

**Housing** – Two-piece, die-cast aluminum ballast housing mounted to steel trunnion. Removable ballast is hinged with captive fastener. Steel trunnion features both vertical and horizontal aiming scale with vertical repositioning stop. Standard finish is white (DWH) corrosion-resistant polyester powder.

**Optics** – Heavy-gauge anodized reflector with five distributions available. Transverse mounting of lamp. Lamp support included. Optical chamber is sealed to inhibit entrance of contaminants. Heavy-duty hinged lens is thermal-resistant, shock-resistant and impact-resistant tempered glass. Lens frame is secured by spring clips for servicing of lamp. "Flux manager" (NFX, WFX, MFX) available for optimal glare and spill light control. Choice of general purpose or heavy-duty (shrouded) reflectors.

**Electrical** – All electrical components are thermally isolated from optical assembly, promoting longer life. Ballast is high-power factor, constant-wattage autotransformer, copper wound and 100% factory tested.

**Socket** – Die-cast socket housing. Porcelain, mogul-base socket with copper alloy, nickel-plated screw shell and spring-loaded center contact. UL Listed 1500W-600V, 4KV pulse rated.

**Installation** – Fixture is mounted by securing trunnion directly to crossarm. Mounting hardware is provided. Below horizontal aiming only. All external hardware is treated for corrosion resistance.

## Listings

UL Listed (standard). CSA Certified (see Options). UL Listed for wet locations. US Patent no. 6,190,023. Canadian patent no. 2,212,014. Other patent pending.

## Ordering Information

Designation	
Metal halide	
TSP	400M <sup>1</sup>
TSP	1000M <sup>1</sup>
TSP	1500M

Distribution	Voltage
General purpose	
GP24N	120
GP24NFX	208 <sup>3</sup>
GP24M	240 <sup>3</sup>
GP24MFX	277
GP24W	347
GP24WFX	480 <sup>3</sup>
	TB <sup>4</sup>
Heavy duty <sup>2</sup>	
HD24N	
HD24NFX	
HD24M	
HD24MFX	
HD24W	
HD24WFX	

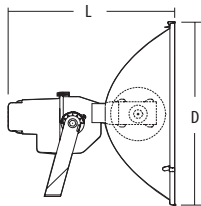
## Example: TSP 1500M GP24N 120 SF

Options/accessories	
<u>Installed</u>	
SF	Single fuse, 120V, 277V, 347V (n/a TB)
DF	Double fuse, 208V, 240V, 480V (n/a TB)
QRS	Quartz restrike system (lamp not included)
C62	2 ft. of 16/3 cable pre-wired
C42	2 ft. of 14/3 cable pre-wired
C22	2 ft. of 12/3 cable pre-wired
CV3P	3 ft. of 16/3 cord pre-wired with 3-prong plug (use with prewired cages and crossarms) <sup>5,6</sup>
CR	Enhanced corrosion resistance
CF	Charcoal filter (heavy-duty only) <sup>7</sup>
SLR	Stainless steel lens ring
WC	Wood crossarm mounting bolt (5/8"-11 UNC x 7")
SCWA	Super CWA pulse start ballast (400M and 1000M only)
CSA	CSA Certified
PER	NEMA twist lock receptacle only, not integral but remote (no photocell, 400M and 1000M only)
<u>Shipped separately</u>	
FTS	Tenon slipfitter
PE1	NEMA twist-lock photocontrol (120V, 208V, 240V) <sup>8</sup>
PE3	NEMA twist-lock photocontrol (347V) <sup>8</sup>
PE4	NEMA twist-lock photocontrol (480V) <sup>8</sup>
PE7	NEMA twist-lock photocontrol (277V) <sup>8</sup>
SC	Shorting cap
<u>Indoor remote ballast</u>	
HRB	HID remote ballast (white) <sup>9</sup>
<u>Outdoor remote ballast</u>	
HRBW	HID remote ballast weatherproof (black) <sup>9</sup>

For optional architectural colors, see page 543.

## NOTES:

- 1 Maybe ordered with SCWA.
- 2 Heavy-duty anodized aluminum shroud.
- 3 Consult factory for availability in Canada.
- 4 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 5 Must use mating receptacle, provided by others.
- 6 Not available 1500M, 120V.
- 7 HD option must be ordered.
- 8 PER must be ordered with fixture.
- 9 Consult factory for availability.



Dimensions are shown in inches (centimeters) unless otherwise noted.

EPA: 3.3 ft<sup>2</sup> (.91 m<sup>2</sup>)  
 Width: 24-1/2 (62.2)  
 Height: 20 (50.8)  
 Max. weight: 55 lbs (24.9 kg)



# TV

### Intended Use

Ideal for recreational or competitive sports fields, parking areas and industrial yards.

### Features

**Housing** – Heavy-gauge, hydroformed aluminum ballast housing mounted to integral die-cast monoframe with horizontal degree aiming scale and repositioning locator. Die-cast aluminum socket housing provides vertical aiming adjustment with degree aiming scale and repositioning stop.

**Optics** – Heavy-gauge anodized aluminum reflectors provide a range of NEMA beam spreads. Optical chamber sealed to inhibit entrance of contaminants. Hinged lens is heavy-duty, thermal-, shock- and impact-resistant tempered glass.

**Electrical** – All electrical components contained in ballast housing, which is isolated thermally from socket housing and optical assembly, promoting longer ballast life. Ballast is high-power factor, constant-wattage autotransformer, cop-

per wound and 100% factory tested.

**Socket** – Porcelain, mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL Listed 1500W, 600V.

**Installation** – Mounted by securing integral crossarm mounting bracket directly to cross arm 5/8" x 11UNC mounting bolt provided. Exposed bolt length: 1-1/2".

### Listings

UL Listed (standard). CSA Certified or NOM Certified (see Options). UL Listed for wet locations.



Example: **TV 1500M GP4 TB**

### Ordering Information

Designation	Distribution <sup>1</sup>	Voltage
<u>High pressure sodium</u>	<b>GP2<sup>2</sup></b>	<b>120</b>
<b>TV 400S</b>	<b>GP3<sup>2</sup></b>	<b>208<sup>4</sup></b>
<b>TV 1000S</b>	<b>GP4<sup>3</sup></b>	<b>240<sup>4</sup></b>
<u>Metal halide</u>	<b>GP5<sup>3</sup></b>	<b>277</b>
<b>TV 400M</b>	<b>GP6</b>	<b>347</b>
<b>TV 1000M</b>		<b>480<sup>4</sup></b>
<b>TV 1500M</b>		<b>TB<sup>5</sup></b>

Options/accessories
---------------------

- Installed**
- SF** Single fuse, 120V, 277V (n/a TB or 347V)
  - DF** Double fuse, 208V, 240V, 480V (n/a TB)
  - PER** NEMA twist-lock receptacle only, no photocell
  - QRS** Quartz restrike system (lamp not included)
  - LS** Lamp support
  - C62** 2 ft. of 16-3 cord pre-wired
  - C42** 2 ft. of 14-3 cord pre-wired
  - C22** 2 ft. of 12-3 cord pre-wired
  - CV3P** 3 ft. of 16-3 cord pre-wired with 3-prong plug for use with pre-wired cages and crossarms<sup>6</sup>
  - AH** Above horizontal aiming
  - CR** Enhanced corrosion resistance
  - CF** Charcoal filter (for use with heavy-duty shroud only)
  - SLR** Stainless steel lens ring
  - WC** Wood crossarm mounting bolt
  - SCWA** Super CWA pulse start ballast (400M only)
  - IBL** Internal bottom louver
  - CSA** CSA Certified
  - NOM** NOM Certified (consult factory)

- Shipped separately<sup>7</sup>**
- PE1** NEMA twist-lock photocontrol (120V, 208V, 240V)<sup>8</sup>
  - PE3** NEMA twist-lock photocontrol (347V)<sup>8</sup>
  - PE4** NEMA twist-lock photocontrol (480V)<sup>8</sup>
  - PE7** NEMA twist-lock photocontrol (277V)<sup>8</sup>
  - SC** Shorting cap
  - UV** Upper visor
  - FTS** Tenon slipfitter
- For optional architectural colors, see page 543.

**ORDERING/PACKAGING OPTIONS**

To accommodate the product's physical configuration as well as a range of customer handling and processing needs, alternative ordering/packaging methods are available.

*Example:*

(Qty 21) **TV 1500M GP4 TB** sportslighters can be ordered/packaged as:

1) *Standard Packaging* (Optimized form)  
To order, use single catalog number shown in example above. Fixtures ship as multiple components using *optimized* packaging. Example ships as:

(Qty 21) **TV 1500M N4 TB HSG** (21 cartons of 1 housing)  
(Qty 20) **GP20A J4** (5 cartons of 4 reflectors)  
(Qty 1) **GP20A U** (1 carton of 1 reflector)

2) *Component Packaging*  
Housings ship in unit cartons.

*Example:*

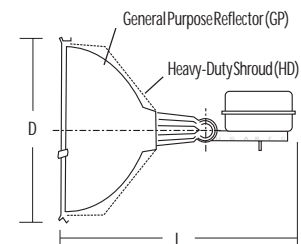
(Qty 21) **TV 1500M N4 TB HSG** (21 cartons of 1 housing)  
Reflectors ship in multiples of:  
(Qty 20) **GP20A J4** (5 cartons of 4 reflectors)  
(Qty 1) **GP20A U** (1 carton of 1 reflector)

Dimensions are shown in **inches (centimeters)** unless otherwise noted.

EPA:	NEMA 2,3:	2.9ft. <sup>2</sup> (27m <sup>2</sup> )
	NEMA 4,5,6:	2.5ft. <sup>2</sup> (23m <sup>2</sup> )
Diameter:	NEMA 2,3:	23-1/8 (58.7)
	NEMA 4,5,6:	21-1/2 (54.6)
Length:	NEMA 2,3:	30 (76.2)
	NEMA 4,5,6:	31-1/2 (80)

### NOTES:

- 1 To order heavy-duty aluminum shroud, change GP to HD in catalog number. Example: TV 400S HD2.
- 2 Not available with 1000S or 1000H.
- 3 Not available with 1000H.
- 4 Consult factory for availability in Canada.
- 5 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 6 Must use mating receptacle, provided by others (n/a 1500M 120V).
- 7 May be ordered as accessory.
- 8 PER must be ordered with fixture.



## Options and Accessories

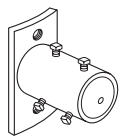
■ = Available as an option, shipped installed □ = Available as an accessory, shipped separately		AS	KSE	KSF	KAD	KAC	KVE	KVR	KVS	KAR	KKS	KKR	KVF
<b>DA12P</b>	Degree mounting arm. 30° max. uptilt in 5° increments. Single or twin 180° config. for KVS.		□	□					□				
<b>DA12WB</b>	Degree arm for wall. 30° max. uptilt in 5° incr. Single or twin 180° config. for KVS.		□	□					□				
<b>DAD12P</b>	Degree mounting arm. 30° max. uptilt, 5° incr.				□	□							
<b>DAD12WB</b>	Degree arm for wall. 30° max. uptilt, 5° incr.				□	□							
<b>HS</b>	House-side shield (consult factory)	■	□	□	□		■	■	□	■			□
<b>KMA</b>	Mast arm mounting for area lighting, 6" min. arm length. Use for 2-3/8" OD pipe.	□	□	□	□	□			□ <sup>1</sup>	□			□
<b>KTMB</b>	Twin mounting bar square mounting arms. (EPA=1.1, wt.=41lbs) Mounts on T25 (2-7/8" OD tenon by 5" tall minimum).		□	□	□	□			□	□			□
<b>MA</b>	Master arm for single/twin 180° configuration, internal fitter (Size 3 only).								■				
<b>MB</b>	Mounting bracket. Use size 1 housing with KSF, KSE.		□	□									
<b>PT4</b>	Post-top (4" OD open-top pole).						■	■					■
<b>PT45</b>	Post-top (4-1/2" OD open-top pole).						■	■					■
<b>PT5</b>	Post-top (5" OD open-top pole).						■	■					■
<b>PT6</b>	Post-top. Must use with round pole only for KVR (6" OD open-top pole).						■	■					
<b>RPx</b>	Round pole mounting arm.	■	■	■	■	■	■	■	■	■			■
<b>RPF20</b>	Round pole fitter (2-3/8" OD tenon).						□	□	□				□
<b>RPF25</b>	Round pole fitter (2-7/8" OD tenon).						□	□	□				□

Notes:

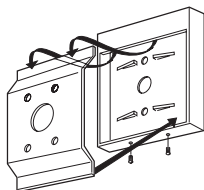
1 Size one housing only.

For arm and/or bracket lengths, see product specification sheet or specific product page in this catalog.

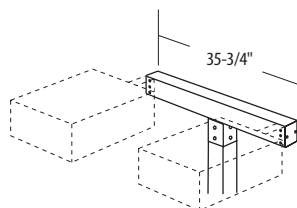
KMA



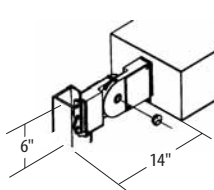
MB



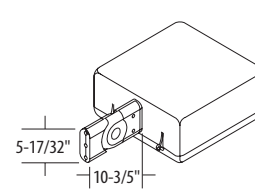
KTMB



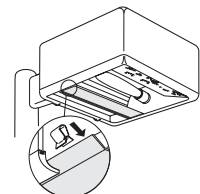
DA12P



DAD12P



HS - KAD



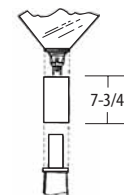
**Tenon Slipfitters for Arm-Mounted Luminaires**

Use with all arm-mounted luminaires. When ordered, fixture must include round pole arm (RPx) or pole degree aiming arm (DA12P or DAD12P). To order, locate catalog number from chart below based on tenon size and mounting configuration. Example: For 3 fixtures at 120°, using a 2-7/8" tenon, catalog number is **T 25-320**. Shipped separately. Order as separate catalog numbers. **For Aeries™ fixture specify AS. Example: AS T20-190.**

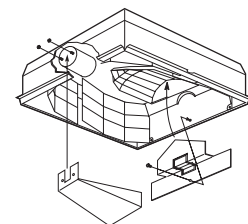
Tenon OD	1 fixture	2 fixtures at 180°	2 fixtures at 90°	3 fixtures at 120°	3 fixtures at 190°	4 fixtures at 90°
2-3/8"	<b>T 20-190</b>	<b>T 20-280</b>	<b>T 20-290*</b>	<b>T 20-320*</b>	<b>T 20-390*</b>	<b>T 20-490*</b>
2-7/8"	<b>T 25-190</b>	<b>T 25-280</b>	<b>T 25-290*</b>	<b>T 25-320*</b>	<b>T 25-390*</b>	<b>T 25-490*</b>
4"	<b>T 35-190</b>	<b>T 35-280</b>	<b>T 35-290*</b>	<b>T 35-320</b>	<b>T 35-390*</b>	<b>T 35-490*</b>

\*See product page for size restrictions.

Tenon Slipfitter for KK Series



HS - KSF

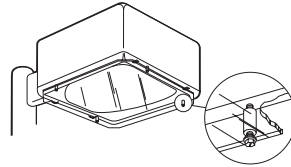


■ = Available as an option, shipped installed □ = Available as an accessory, shipped separately	AS	KSE	KSF	KAD	KAC	KVE	KVR	KVS	KAR	KKS	KKR	KVF
<b>SM</b> Side mount assembly. One per luminaire.									□	□		
<b>SP</b> Square pole mounting arm. Use 9" arm for two at 90°.	■	■	■	■	■	■	■	■	■			■
<b>SPF20</b> Square pole fitter (2-3/8" OD tenon).						□	□					□
<b>SPF25</b> Square pole fitter (2-7/8" OD tenon).						□	□					□
<b>T20</b> Tenon slipfitter (for 2" pipe tenon 2-3/8" OD).										□	□	
<b>T25</b> Tenon slipfitter (for 2-1/2" pipe tenon 2-7/8" OD).											□	
<b>VG<sup>3</sup></b> Vandal guard.	■	□	□	□	□ <sup>1</sup>		□ <sup>4</sup>	□ <sup>2</sup>	□			□
<b>WB<sub>x</sub></b> Wall mount for J-box. (Aeris™ only order WBA.)	■	■	■	■	■	■	□	■	■			■
<b>WM</b> Wall mount. 16" arm is used with a wall plate.										□	□	
<b>WW<sub>x</sub></b> Wall for conduit stub 9" or 12".		■	■	■	■	■	■	■	■			■

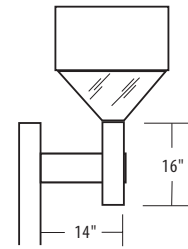
NOTES:

- 1 Only available with FP option.
  - 2 Only available in KVS1 (R2, R3 and R4).
  - 3 Specify family as prefix when ordering as a separate line item.
  - 4 KVR2 only (n/a KVR3).
- For arm and/or bracket lengths, see product specification sheet or specific product page in this catalog.

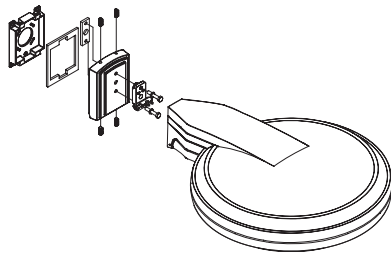
VG-KAD



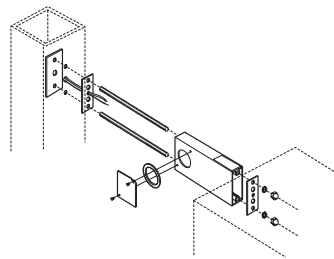
SM/WM



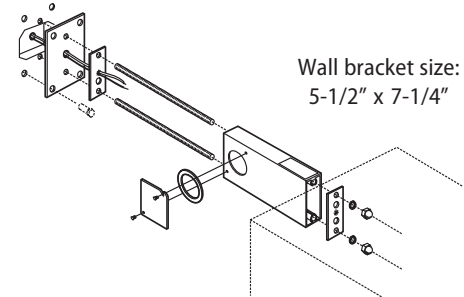
WBA



SP<sub>x</sub>/RP<sub>x</sub>



WB<sub>x</sub>



Mounting bolts (4) by others. Minimum fastener size is 1/2" diameter.

## Options and Accessories

*Outdoor HID Electrical Options (shipped installed)*

- SF** Single fuse. Use with 120V, 277V, 347V. Not available for multi-tap or multi-volt ballast. In-line, time-delay type fusing isolates faulty luminaire from circuit fusing.
- DF** Double fuse. Use with 208V, 240V, 480V. Not available for multi-tap or multi-volt ballast. In-line, time-delay type fusing isolates faulty luminaire from circuit fusing.
- GMF** Internal slow-blow fusing for compact fluorescent. Not available for multi-tap or multi-volt ballast. In-line, time delay type fusing isolates faulty luminaire from circuit fusing.
- PE** Photoelectric cell (button-type). Not available for multi-tap ballast or 480V.
- PER** NEMA twist-lock photocontrol receptacle. Photocontrol not included.
- LS** Lamp support. Mogul-base socket only.
- KW1** 120V AC control relay for Kilo-Watch dual-level system. 50% power reduction.
- KW4** 277V AC control relay for Kilo-Watch dual-level system. 50% power reduction.
- DS** Dual switching. Two lamps/two ballasts. Requires two separate power inputs so each lamp/ballast combo operates as separate system.
- LPI** Lamp included and ships in carton with fixture.
- LPIC** Coated lamp included and ships in carton with fixture.
- LP** Lamp factory installed in fixture socket.
- L/LP** Less lamp. Lamp is not included or shipped with fixture.
- C22** 12-3 cord (2' prewired).<sup>1</sup>
- C42** 14-3 cord (2' prewired).<sup>1</sup>
- C62** 16-3 cord (2' prewired).<sup>1</sup>
- CV3P** 3 ft. of 16-3 cord pre-wired with 3-prong plug for use with prewired cages and crossarms. Must use matching receptacle, provided by others. Not available with 1500W-120V.<sup>1</sup>
- DC12** Auxiliary emergency circuit for MR11 35-watt maximum double-contact, bayonet-based lamp, contains socket with leads for use with separate external 12 volt emergency power source (provided by others). Factory installed only. Lamp included and installed at factory (MR11 DC bayonet-base).

- 2DC12** Auxiliary emergency circuit for (2) MR11 35-watt maximum double-contact, bayonet-based lamp, contains socket with leads for use with separate external 12 volt emergency power source (provided by others). Factory installed only. Two lamps included and installed at factory (MR11 DC bayonet-base).
- DC2012** Auxiliary emergency circuit for (1) MR11 20-watt maximum double-contact, bayonet-based lamp, contains socket with leads for use with separate external 12 volt emergency source (provided by others). Factory installed only. Lamp included and installed at factory (MR11 DC bayonet-base).
- 2DC2012** Auxiliary emergency circuit for (2) MR11 20-watt maximum double-contact, bayonet-based lamp, contains socket with leads for use with separate external 12 volt emergency source (provided by others). Factory installed only. Two lamps included and installed at factory (MR11 DC bayonet-base).
- EC** Emergency circuit. Double-contact, bayonet-base quartz socket with socket leads for use with separate external emergency power system.
- ELDWC** Integral emergency battery system for compact fluorescent units.
- ELDWC** Cold weather integral emergency battery system for compact fluorescent units (-20°C to 55°C operation).
- ELDWR** Remote battery pack (by others) ready for compact fluorescent lamps. Battery pack by others mounted external to luminaire. Pilot light/test switch mounting plate included. Consult factory for availability.
- QRS** Quartz restrike system. Activates when power interruption causes HID lamps to drop out. Deactivates when fixture restrikes. QRS does not energize during cold start of fixture. Wattage of quartz lamp should not exceed that of HID source. For 100W and below, use 100W DC bayonet-base lamp.
- QRSTD** Quartz restrike time delay. Functions as does QRS, but quartz lamp energizes under hot and cold starting conditions. Quartz lamp will come on when luminaire is energized and remain on for two minutes after restrike.

- NL** Incandescent night light, 7W maximum. Lamp included.
- NLCF** Compact fluorescent night-light, 9W maximum. Lamp included.
- OPS** Open plug-in starter.
- ENP** Encapsulated plug-in starter.
- ENX** External encapsulated plug-in starter.
- T2P** Terminal block-two position wired L1, L2.
- T3P** Terminal block-two position wired L1, N, L2.
- LSA** Single lighting surge arrester.
- PSS** Protected automatic shutoff.
- PD** Power door (ballast tray).
- L/DLD** Less docking station.
- 2/1** Two lamps/one ballast. Requires one power input for system.
- ADCF** Advance electronic fluorescent ballast. Requires 4-pin lamp (120V or 277V only).
- MOTCF** Osram Sylvania electronic fluorescent ballast. Requires 4-pin lamp (120V or 277V only).
- TUBCF** Universal Lighting Technologies electronic fluorescent ballast.
- ADEZ** Advance Mark 10<sup>®</sup> electronic line voltage control dimming ballast (120V or 277V; 26/DTT, 26TRT and 32TRT).
- DMHL** Lutron Hi-Lume<sup>®</sup> electronic 3-wire line voltage control dimming ballast (120V or 277V; 26/DTT, 26TRT and 32TRT).

## NOTES:

<sup>1</sup> For other cord lengths and cord ratings consult factory.

Not all options are available with all fixtures. See product pages for details.

Outdoor HID Electrical Options (shipped installed)

<b>PE1</b>	NEMA twist-lock photocontrol, (120V, 208V, 240V).
<b>PE3</b>	NEMA twist-lock photocontrol, (347V).
<b>PE4</b>	NEMA twist-lock photocontrol, (480V).
<b>PE7</b>	NEMA twist-lock photocontrol, (277V).
<b>PEU</b>	NEMA twist-lock PE included per voltage specified.
<b>SC</b>	Shorting cap for PER. Ships as SC U.
<b>HRB</b>	HID remote ballast for Indoor use where quiet performance is required or ballast must be mounted remotely from luminaire. White finish is standard.
<b>HRBW</b>	HID remote ballast for outdoor use. Designed for remote pole or ground mounting applications. Black finish is standard.
<b>FG</b>	Festoon outlet. Duplex ground fault receptacle. Cast box.
<b>VGRDS</b>	Gateway® decorative shroud for round deep units. Attaches to cast housing to cover conduit entry holes. Can be ordered as an option or an accessory (Example: VGRDS DWHG).

Outdoor HID Options (shipped installed)

<b>CF</b>	Charcoal filter.
<b>HSS</b>	Stainless steel external hardware.
<b>TLS</b>	Tool-less entry.
<b>NML</b>	NEMA label.
<b>DPL</b>	Distribution pattern indicator level.
<b>HKP</b>	Hinge keeper.
<b>BLV</b>	Bubble level.
<b>TRS</b>	Stainless steel Torx® T20 tamper-resistant screws with center reject pin.

NOTES: Not all options are available with all fixtures. See product pages for details.

## Architectural Colors

Powder finish. Add designation as suffix to catalog number. Additional architectural colors are available. See Architectural Colors brochure on [www.lithonia.com](http://www.lithonia.com).

\*For color and finish standards and availability by product, please see individual product specification pages.

Standard colors

<b>DDB</b>	Dark bronze
<b>DBL</b>	Black
<b>DWH</b>	White

Textured colors

<b>DDBT</b>	Dark bronze
<b>DSST</b>	Sandstone
<b>DNAT</b>	Natural aluminum
<b>DWHG</b>	White
<b>DBLB</b>	Black
<b>DBNH</b>	Bronze
<b>DSPD</b>	Dark gray
<b>DSPJ</b>	Light gray
<b>DSPE</b>	Green
<b>DSPG</b>	Dark red
<b>DSPF</b>	Rust
<b>DSPH</b>	Red

Classic colors

<b>DMB</b>	Medium bronze
<b>DNA</b>	Natural aluminum
<b>DGC</b>	Charcoal gray
<b>DSS</b>	Sandstone
<b>DSB</b>	Steel blue
<b>DTG</b>	Tennis green
<b>DBR</b>	Bright red

Fixture finishes

<b>ADB</b>	Anodized dark bronze. Architectural Class 1.
<b>CR</b>	Enhanced corrosion resistance for additional protection against some corrosive atmospheres. Consult factory for corrosive compatibility.
<b>CRT</b>	Non-stick protective coating (black finish only)

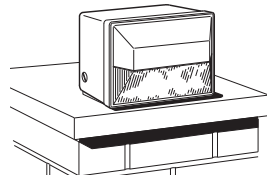
## Site Lighting and Building Mounted Lighting

	TWA/																WSR/WST		VGR/VGO
	ASB	ASW	KBA	KBC	KBD	KBE	KBR	KBS	KL	TWH	TWP	TWAC	TWR	TWRC	TWS	WFL	WSQ		
■ = Available as an option, shipped installed □ = Available as an accessory, shipped separately																			
<b>BBF</b> Backbox for flat surfaces.									■										
<b>BBR</b> Backbox, recessed (ceiling, soffit mount).									■										
<b>BBS</b> Backbox for stud wall construction.									■										
<b>BBW</b> Backbox for surface wall installation.		□							■							□	□		
<b>FS</b> Full shield for IES cutoff.										■	■								
<b>FCV</b> Full cutoff visor.														□					
<b>PC</b> Polycarbonate lens.	■		■	■	■	■	■	■	□		□	□			□				
<b>R6S/R8S</b> Half-shield, not for use with louvered bollards.			□	□	□		□												
<b>S6S/S8S</b> Half-shield, not for use with louvered bollards.	□						□	□											
<b>WG<sup>1</sup></b> Wireguard.		□								□	□	□	□	□	□	□	□	□	
<b>VG<sup>1</sup></b> Vandal guard.		□								□						□	□		
<b>UT5</b> Uptilt 5 degrees.																		□	
<b>DFL</b> Diffusing lens.																		■	
<b>WLU</b> Wet location door for up orientation.																		■	
<b>IBS</b> Internal backlight shield.																		■	
<b>LC90</b> Lock at 90° for full cutoff.																■			
<b>UCS</b> Uplight component shield for WSR, inverted orientation with FTU or WTU distribution.																		■	
<b>HS</b> House-side shield for SR2,SR3 or SR4W (size 2).		■																	
<b>TRS</b> Stainless steel Torx® T20 tamper-resistant screws with center reject pin.																		■	
<b>VGRDS<sup>2</sup></b> Gateway decorative shroud for round deep units. Attaches to cast housing to cover conduit entry holes. Can be ordered as an option or as an accessory (Example: VGRDS DWHG).																		□	

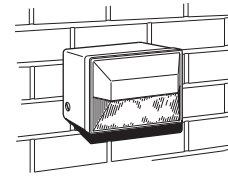
NOTES:

- 1 Specify family prefix.
- 2 Available with deep VGR only.

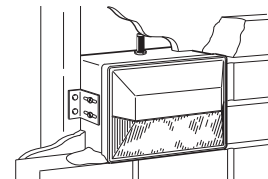
KLBBF



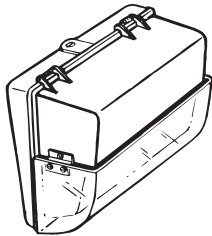
KLBBW



KLBBS



TWHVG



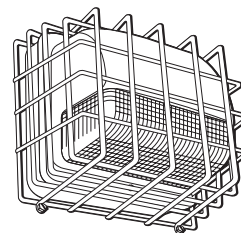
TWHWG



TWPWG



TWAWG

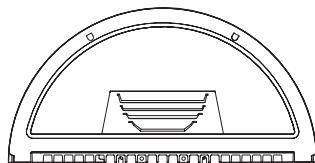


TWRCFCV

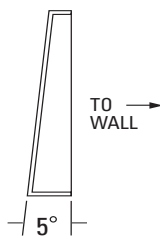
**NEW**



IBS

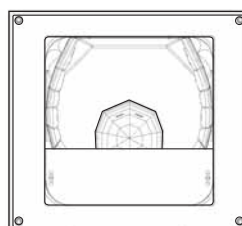


UT5



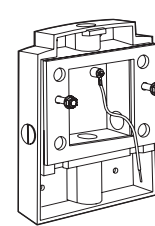
HS

**NEW**



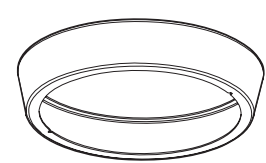
ASWxBBW

**NEW**

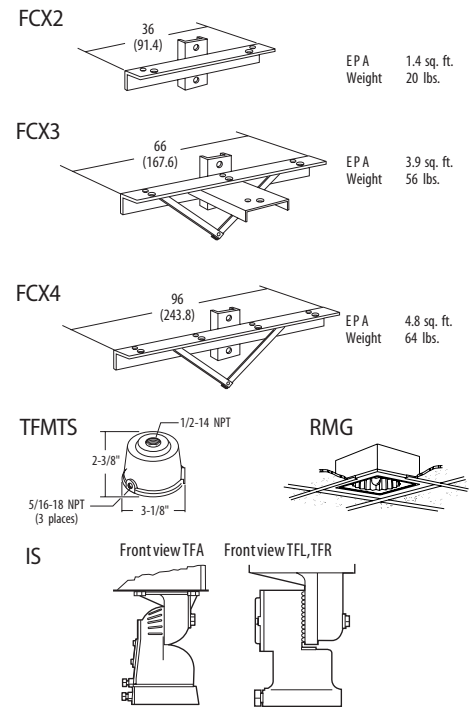
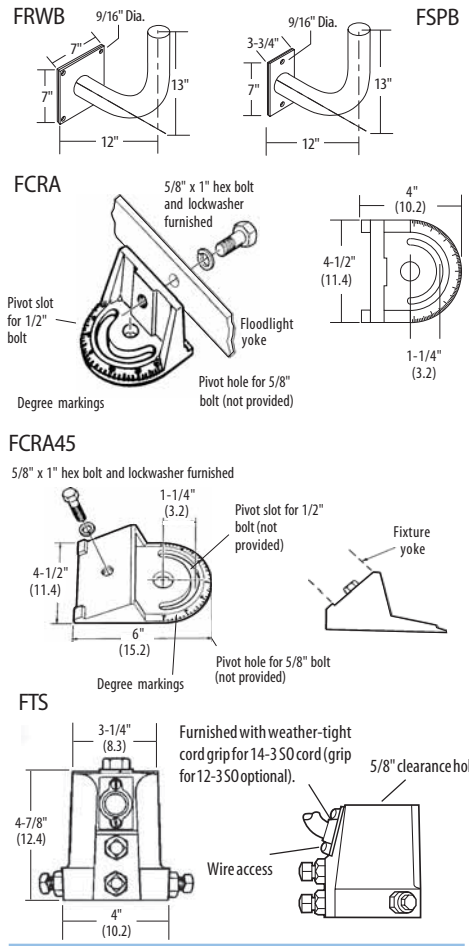


VGRDS

**NEW**



		Garage		Sports		Floodlighting											
		PGR	KPS	KACM	TSP	TV	ASF	KFL	55	95	170S	TFA	TFR	TFL	TFM	TSL	
<b>HS</b>	House side shield (glare shield).	■															
<b>BDS</b>	Bird deterrent shroud.	□															
<b>OJB</b>	Offset junction box.	□															
<b>RMG</b>	Recessed mount in grid ceiling.		■														
<b>SS</b>	Stainless steel ceiling mount housing (alloy 304 stainless steel).		■														
<b>AH</b>	Above horizontal aiming.					■											
<b>CF</b>	Charcoal filter; must use with heavy-duty shroud.				■	■											■
<b>FCRA<sup>1</sup></b>	Crossarm adapter for horizontal mounting (use with yoke mount only).				□		□	□	□	□	□	□	□	□	□	□	□
<b>FCRA45<sup>1</sup></b>	Crossarm adapter for horizontal mounting 45° (use with yoke mount only).				■ <sup>2</sup>		□	□	□	□	□	□	□	□	□	□	□
<b>SLR</b>	Stainless steel lens rings.				■	■											
<b>IBL</b>	Internal bottom lower; cannot order IBL and TVUV together.					■											
<b>FRWB<sup>1</sup></b>	Radius wall bracket; 2-3/8 diameter (use with slipfitter mount only). Standard finish is DDB.				□		□	□	□	□	□	□	□	□	□	□	□
<b>FSAB<sup>1</sup></b>	Steel angle bracket (use with yoke mount only). Standard finish is DDB.				□		□	□	□	□	□	□	□	□	□	□	□
<b>FSPB<sup>1</sup></b>	Steel square pole bracket (for use with existing poles). 2-3/8" diameter (use with slipfitter mount only). Standard finish is DDB.				□		□	□	□	□	□	□	□	□	□	□	□
<b>FPMB<sup>1</sup></b>	Pipe/wood/pole/wall mounting bracket. Mounts to 2" schedule 40 pipe (use with yoke mount only).				□		□	□	□	□	□	□	□	□	□	□	□
<b>FWPB<sup>1</sup></b>	Wall bracket (pipe) (use with yoke mount only).				□		□	□	□	□	□	□	□	□	□	□	□
<b>FTS<sup>1</sup></b>	Tenon slipfitter; fits 2-3/8" to 2-7/8" OD tenon (use with yoke mount only).				□		□	□	□	□	□	□	□	□	□	□	□
<b>TVTS<sup>1</sup></b>	Tenon slipfitter; fits 2-3/8" to 2-7/8" OD tenon.				□	□											
<b>TFMTS<sup>1</sup></b>	Tenon slipfitter for 1/2" threaded knuckle; fits 1-1/4" to 2-3/8" OD tenon.								□							□	
<b>TVUV</b>	Upper visor; cannot be used with IBL.																□
<b>FCX2<sup>1</sup></b>	2-light wood pole crossarm (use with yoke mount only).				□		□	□	□	□	□	□	□	□	□	□	□
<b>FCX3<sup>1</sup></b>	3-light wood pole crossarm (use with yoke mount only).				□		□	□	□	□	□	□	□	□	□	□	□
<b>FCX4<sup>1</sup></b>	4-light wood pole crossarm (use with yoke mount only).				□		□	□	□	□	□	□	□	□	□	□	□
<b>TVWC<sup>1</sup></b>	Wood crossarm mount bolt 5/8" - 11UNC, 8" length.				□	□											
<b>YK</b>	Yoke mount, painted.	■	■	■			■	■	■	■	■	■	■	■	■	■	■
<b>GYK</b>	Yoke mount, galvanized.																■
<b>EY</b>	Extended yoke.																■
<b>THK</b>	Threaded knuckle mount.									■							
<b>IS</b>	Integral slipfitter; fits 2-7/8" max. OD with TFA, 2-3/8" with TFL and TFR.																■

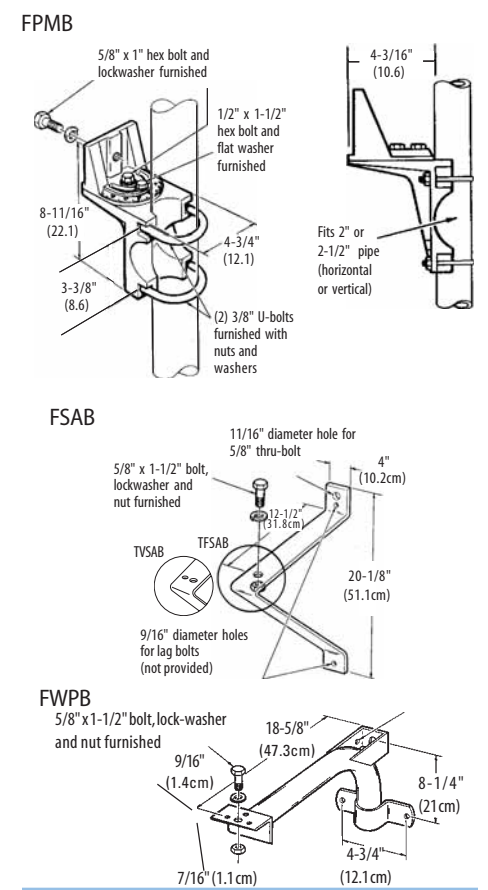


**lightquick<sup>XD</sup>**  
Express delivery products.

See page 11 for details about LightQuick XD.

Description
<b>FTS U</b>

NOTES:  
 1 Order as separate catalog number.  
 2 Ships standard with TSP. Order as separate catalog number for other families.



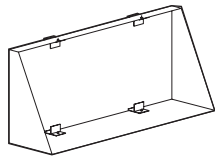
## Floodlighting

☐ = Available as an accessory, shipped separately		ASF	KFL/WFL	55	95	170S	TFA	TFR	TFL	TFM
<b>BD<sup>2</sup></b>	Barn doors	☐	☐							
<b>BV<sup>2</sup></b>	Bottom visor		☐	☐	☐		☐			
<b>BVG<sup>2</sup></b>	Vandal guard	☐	☐							
<b>CV<sup>2</sup></b>	Concentric visor				☐					
<b>EV<sup>2</sup></b>	Eggcrate visor (black finish)	☐	☐							
<b>FV<sup>2</sup></b>	Full visor	☐	☐	☐	☐		☐	☐	☐	☐
<b>FV/BVG<sup>2</sup></b>	Full visor and vandal guard	☐								
<b>GS<sup>2</sup></b>	Glare shield (upper or bottom visor)		☐							
<b>GV<sup>2</sup></b>	Glare visor			☐	☐					
<b>HLV<sup>2</sup></b>	Horizontal louver (black finish)		☐							
<b>VG<sup>1,2</sup></b>	Vandal guard						☐	☐	☐	☐
<b>UV<sup>2</sup></b>	Upper visor		☐	☐	☐	☐	☐	☐	☐	☐
<b>UV/BVG<sup>2</sup></b>	Upper visor and vandal guard		☐							
<b>VLV<sup>2</sup></b>	Vertical louver (black finish)		☐							
<b>WG<sup>2</sup></b>	Wire guard		☐				☐	☐	☐	☐

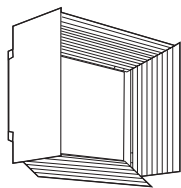
**NOTES:**

- 1 Vandal guards are compatible with all wattages.
- 2 Specify family as prefix.

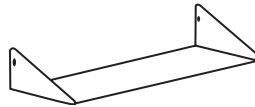
**BV** – Bottom visor (KFL)



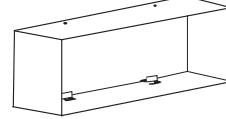
**BD** – Barn doors (KFL and ASF)



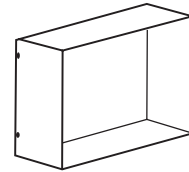
**BV** – Bottom visor (55/95)



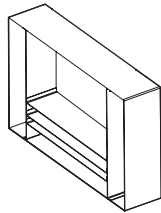
**FV** – Full visor (KFL and ASF)



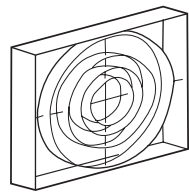
**FV** – Full visor (55/95)



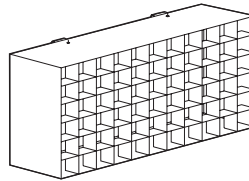
**HLV** – Horizontal louver (KFL)



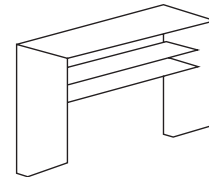
**CV** – Concentric visor (95)



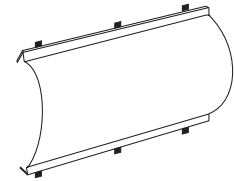
**EV** – Eggcrate visor (KFL and ASF)



**GV** – Glare visor (55/95)



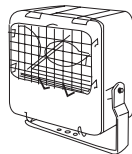
**BVG** – Vandal guard (KFL and ASF)



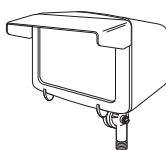
**TFMVG/TFRVG**



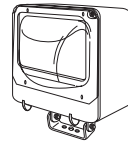
**TFAWG**



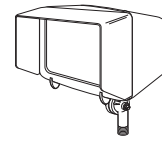
**TFMUV/TFRUV**



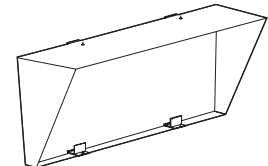
**TFLVG**



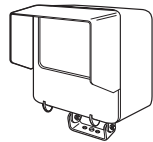
**TFMFV/TFRFV**



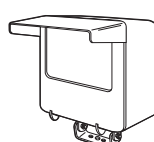
**UV** – Upper visor (KFL)



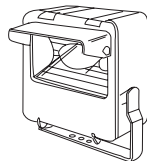
**TFLFV**



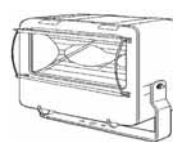
**TFLUV**



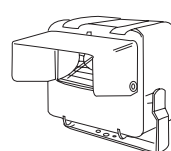
**TFAUV**



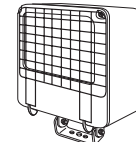
**TFAVG**



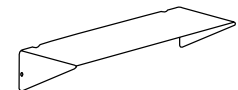
**TFAFV**



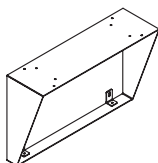
**TFLWG**



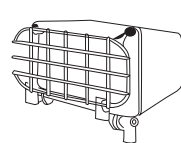
**UV** – Upper visor (55/95)



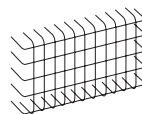
**ASFGS**



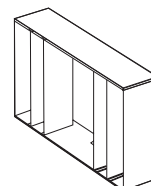
**TFMWG/TFRWG**



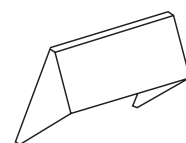
**WG** – Wireguard



**VLV** – Vertical louver (KFL)



**UV** – Upper visor (170)



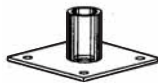


☐ = Available as an accessory, shipped separately		ASF1	ASF2	KFL	55	95	170S	TFA	TFR	TFL	TFM
<b>AJB</b>	Architectural J-box, accepts 1/2" NPT THK.			☐							☐
<b>AFJB</b>	Architectural J-box, accepts ASF1 standard mounting (3/4" NPT THK).	☐									
<b>EWB</b>	Extended wall bracket, yoke mount only.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
<b>AFTMB</b>	Twin mounting bar. Requires tenon slipfitter mounting (2-3/8" OD tenon).		☐	☐				☐	☐	☐	☐ <sup>2</sup>
<b>AFTMBTHK</b>	Twin mounting bar, accepts ASF1 standard mounting (3/4" NPT THK).	☐									
<b>KFLTMBTHK</b>	Twin mounting bar for THK option. Only compatible with KFLTHK (1/2" NPT).			☐							☐
<b>AFSTM</b>	Stanchion mount. Requires tenon slipfitter mounting (2-3/8" OD tenon).		☐	☐	☐	☐	☐	☐	☐	☐	☐ <sup>2</sup>
<b>AFSTMTHK</b>	Stanchion mount, accepts ASF1 standard mounting (3/4" NPT THK).	☐									
<b>KFLSTMTHK</b>	Stanchion mount, accepts 1/2" NPT THK (use with THK mounting only or standard TFM).			☐							☐
<b>AFTM</b>	Tenon base mount. Requires tenon slipfitter mounting (2-3/8" OD tenon).		☐	☐	☐	☐	☐	☐	☐	☐	☐ <sup>2</sup>
<b>AFWMA</b>	Wall mount arm. Requires tenon slipfitter mounting (2-3/8" OD tenon).		☐	☐	☐	☐	☐	☐	☐	☐	☐ <sup>2</sup>
<b>AFWMATHK</b>	Wall mount arm, accepts ASF1 standard mounting (3/4" NPT THK).	☐									
<b>KFLWMATHK</b>	Wall mount arm for THK option. Only compatible with KFLTHK (1/2" NPT THK).			☐							☐
<b>AFWMPTHK</b>	Wall mount plate, accepts ASF1 standard mounting (3/4" NPT THK).	☐									
<b>TS</b>	Tenon slipfitter. Fits 2-3/8" to 2-7/8" OD tenon (use with yoke mount only).			☐	☐	☐	☐				
<b>AFTS</b>	Tenon slipfitter, accepts ASF1 standard mounting (3/4" NPT THK).	☐									
<b>STM</b>	Stanchion mount – general purpose (2-3/8" OD tenon).		☐	☐	☐	☐	☐	☐	☐	☐	☐ <sup>2</sup>

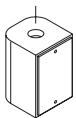
**NOTES:**

- When used with TFM yoke a 3/8" bolt, two lockwashers and nuts must be furnished by others.
- For use with TFMTS.

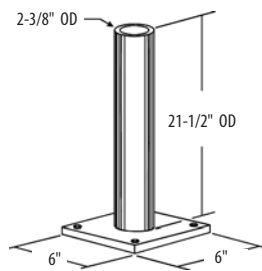
**AFTM** – Tenon base mount



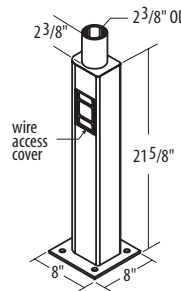
**AFJB and AJB** – Architectural junction box



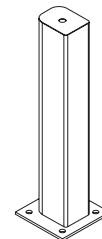
**STM** – Stanchion mount, general purpose



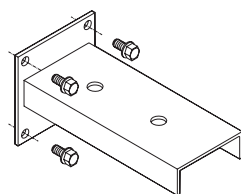
**AFSTM** – Stanchion mount for tenon slipfitter mounting



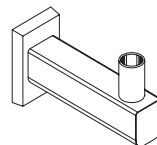
**AFSTMTHK and KFLSTMTHK** – Stanchion mount for threaded knuckle



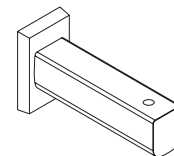
**EWB** – Extended wall bracket



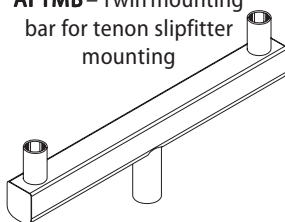
**AFWMA** – Wall mount for tenon slipfitter mounting



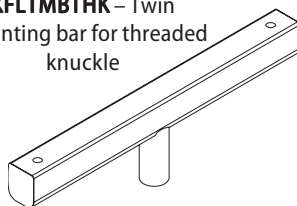
**AFWMATHK and KFLWMATHK** – Wall mount arm for threaded knuckle



**AFTMB** – Twin mounting bar for tenon slipfitter mounting



**AFTMBTHK and KFLTMBTHK** – Twin mounting bar for threaded knuckle



**AFWMPTHK** – Wall mounting plate for 3/4" NPT threaded knuckle



**AFTS** – Tenon slipfitter for 3/4" NPT threaded knuckle



## Nighttime Friendly™ Lighting

Lithonia Lighting is a leader in providing a variety of outdoor luminaires devoted to energy and environmental concerns. Many communities are interested in maintaining nighttime visibility, safety and security while preserving the night sky. Quality outdoor lighting considers the visual needs of the application while reducing glare and light trespass onto neighboring properties, therefore minimizing sky glow and overall ener-



Nighttime Friendly designates products with superior optical control that are consistent with the goals of USGBC LEED® and meet Green Globes™ product criteria for light pollution reduction. These products are full cutoff and no more than 10% of the lumens from the luminaire are emitted above 80 degrees from nadir.

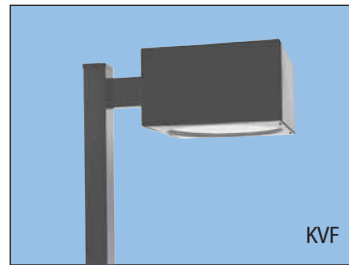
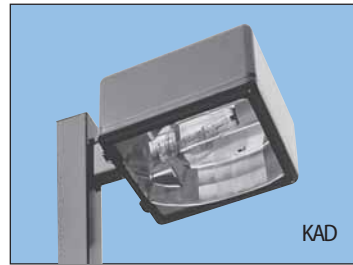
gy usage. Listed below are several Lithonia Lighting product families that include a wide range of cutoff and full-cutoff luminaires that produce quality lighting and minimize night sky glow.

The Illuminating Engineering Society of North America (IESNA, or IES) provides classifications for luminaires according to their glare control and high-angle brightness. These classification, along with their benefits and limitations, are described in the Technical and Design Considerations section on page 725.

Acuity Brands Lighting uses Nighttime Friendly™ to identify products that reduce negative im-

pacts on the nighttime environment. Products designated with the Nighttime Friendly logo have no uplight, meet the IESNA definition for full cutoff optics and reduce high angle brightness. These measures of luminaire performance are consistent with sustainability standards for light pollution reduction.

For applications where there is a concern with light trespass on neighboring properties, consider products that limit light behind the pole, such as the Type 4 sharp cutoff optical system or house side shielding.



### Area Luminaires

Luminaire	Meets Nighttime Friendly™ Criteria	Full Cutoff	PSG Page	Comments	Trespass Solutions
AS	✓ <sup>1</sup>	✓	472	Aeris™ die-cast housing, dedicated optical platform, 2 housing sizes, flat lens, 400W max.	SR4SC
AST	✓ <sup>1</sup>	✓	473	Aeris™ die-cast housing, dedicated optical platform, aesthetically pleasing tension rod assembly, 2 housing sizes, flat lens, 400W max.	SR4SC
KAD	✓	✓	476	Square die-cast housing, flat lens, 400W max.	SR4SC
KADT	✓	✓	477	Square die-cast housing, aesthetically pleasing tension rod assembly, flat lens, 400W max.	SR4SC
KSF	✓	✓	475	Rectangular housing, 3 housing sizes, flat lens, 1000W max.	R4SC
KSE	✓	✓	474	Crisp square housing, 2 housing sizes, flat lens, 400W max.	R4SC
KVF	✓ <sup>2</sup>	✓	478	Square vertical lamp, flat lens, 1000W max.	SR4SC
KAR		✓	482	Round housing, 3 housing sizes, flat lens, 1000W max.	

NOTES:

- 1 May not meet Nighttime Friendly™ standards with HS option.
- 2 Will not meet Nighttime Friendly™ standards with DL or EHS options.

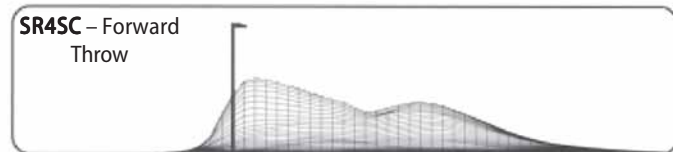
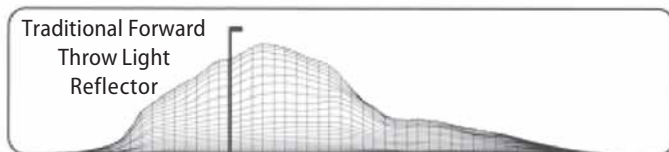
### Sharp Cutoff & Light Trespass

Spill light or light trespass is the light that illuminates surfaces beyond the property line. An example is the light on a bedroom wall coming through the window from the ball field across

the street. A number of ordinances place limits on spill light near the property line as the sole means of controlling light trespass. The most effective way to minimize spill light from a loca-

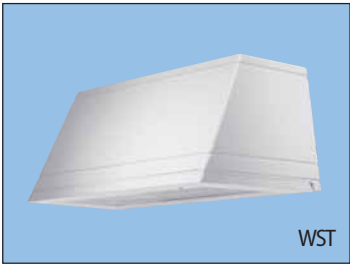
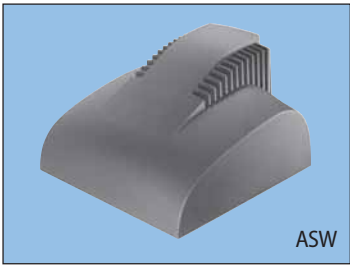
tion is to apply forward throw optics around the perimeter. Lithonia Lighting's R4SC optic is designed specifically for this application.

For more information on sharp cutoff, visit [www.lithonia.com/CutoffLighting/AreaLuminaires.htm](http://www.lithonia.com/CutoffLighting/AreaLuminaires.htm).



Lithonia Lighting has a diverse selection of building-mounted luminaires to complement our various Nighttime Friendly™ area luminaires. Listed below are several product families that include a

wide range of cutoff and full-cutoff luminaires that produce quality lighting and minimize night sky glow.



**Building Mounted Luminaires**

Luminaire	Meets Nighttime Friendly Criteria	Full-Cutoff	Cutoff	PSG Page	Comments
ASW	✓ <sup>2</sup>	✓		504	Aeris™ die-cast housing, architectural style, 2 housing sizes, 400W max.
WSR <sup>1</sup> , WST, WSQ	✓ <sup>3</sup>	✓		506	Decorative die-cast housing, 175W max.
WFL	✓ <sup>2</sup>	✓		505	Architectural style, 2 housing sizes, 400W max., can be ordered with LC90 option to prevent field adjustment.
TWAC			✓	513	Vandal-resistant, polycarbonate lens, 100W max.
TWRC			✓	515	General purpose, die-cast aluminum and tempered glass, 400W max., optional full cutoff visor (FCV)
TWR1S	✓	✓		514	General purpose, die-cast aluminum and tempered glass, 175W max.

NOTES:

- 1 WSR is downlight only.
- 2 May depend on optical selection. Consult factory.
- 3 Does not meet Nighttime Friendly™ standards with uplight distribution options.

**REFERENCES**

**DESIGN RECOMMENDATIONS FROM INDUSTRY ASSOCIATIONS**

**IESNA**

The Illuminating Engineering Society of North America provides a variety of reference material on effective outdoor lighting design. Both the IESNA Lighting Handbook, 9th edition, and Recommended Practice No. 33 (RP-33-99), Lighting for Exterior Environments, offer discussions on design practices and suggested spill light limitations.

**NEMA**

The Luminaire Section of the National Electrical Manufacturers Association published a document entitled "White Paper on Outdoor Lighting Code Issues". This paper highlights the pros and cons of methods to control light trespass.

The NEMA Statement of Principles on Outdoor Lighting Codes also provides general guidance in the establishment of local lighting ordinances.

**IDA**

The International Dark-Sky Association is a grass-roots organization that promotes quality outdoor lighting practices. Of particular interest to IDA is the reduction of sky glow. Their guidelines are of significant benefit for lighting installations near astronomical observatories or intrinsically dark areas such as national parks.

Lithonia Lighting is a member of, and participates in the activities of all the associations above.

# Floodlighting Design Guidelines

## IES Classifications

for general-purpose floodlighting

The IES beam spreads indicate the angular ranges (horizontally and vertically) through which the intensity of the floodlight is greater than 10% of its maximum intensity. This angular range is referred to as the 'Field Angle'.

For example:

Asymmetrical beam spread  
 138° (H) x 119° (V)  
 HORIZONTAL VERTICAL  
 = IES 7 x 6

IES Beamspread Classification		
Field angle degrees	IES type	Beam description
10° up to 18°	1	very narrow
18° up to 29°	2	narrow
29° up to 46°	3	medium narrow
46° up to 70°	4	medium
70° up to 100°	5	medium wide
100° up to 130°	6	wide
130° and up	7	very wide

The IES classification was formerly referred to as NEMA Type.

The following outdoor design tips provide general guidelines for lighting design. These guidelines may not apply to all applications.

## GROUND-MOUNTED FLOODLIGHTS

Ground-mounted floodlights are used to light building facades, signs and flagpoles.

### Facade Lighting

When lighting building facades with ground-mounted floodlights, three factors are considered: setback, spacing and aiming.

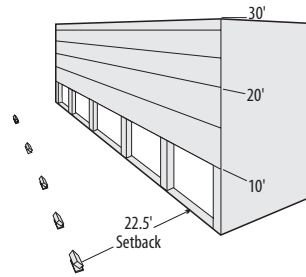
Facade lighting considerations:

1. Setback
2. Spacing
3. Aiming

### Setback

The recommended setback is three-fourths the building height. If a building is 30 feet tall, the recommended setback is 22.5 feet from the building. Locating the floodlight closer to the building will sacrifice uniformity; setting it farther back will result in a loss of efficiency.

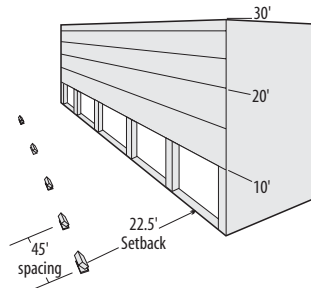
$$\begin{aligned} \text{Setback distance} &= 3/4 \times \text{building height} \\ 3/4(30\text{ft.}) &= 22.5\text{ft.} \end{aligned}$$



### Spacing

The rule of thumb for spacing floodlights is not to exceed two times the setback distance. If the setback is 22.5 feet, the floodlights should not be placed more than 45 feet apart.

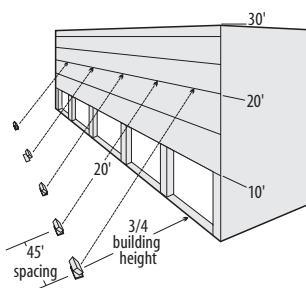
$$\begin{aligned} \text{Spacing} &= 2 \times \text{setback distance} \\ 22.5\text{ft.} \times 2 &= 45\text{ft. apart} \end{aligned}$$



### Aiming

The floodlight should be aimed at least two-thirds the height of the building. For example, if a building is 30 feet high, the recommended aiming point is approximately 20 feet high. After installation is complete, aiming can be adjusted to produce the best appearance. Mounting a full or upper visor to the floodlight can reduce unwanted spill light.

$$\begin{aligned} \text{Aiming point} &= 2/3 \times \text{building height} \\ 2/3(30\text{ft.}) &= 20\text{ft. high} \end{aligned}$$



## Sign Lighting

When lighting a sign with ground-mounted floodlights, there are three considerations: setback, spacing and aiming.

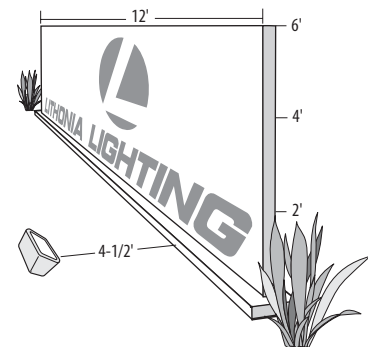
Sign lighting considerations:

1. Setback
2. Spacing
3. Aiming

### Setback

When using ground-mounted floodlights to light a sign, the recommended setback is a distance equal to three-fourths the sign height. For example, the setback distance for a 12-foot by 6-foot sign would be 4.5 feet. Locating the floodlight closer will sacrifice uniformity while setting it farther back will result in a loss of efficiency.

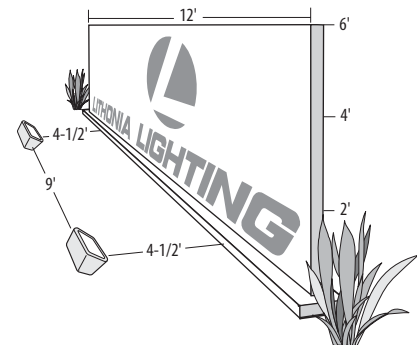
$$\begin{aligned} \text{Setback distance} &= 3/4 \times \text{sign height} \\ 3/4(6\text{ft.}) &= 4.5\text{ft.} \end{aligned}$$



### Spacing

The rule of thumb for spacing floodlights is not to exceed two times the setback distance. If the setback is 4.5 feet, the floodlights should not be placed more than 9 feet apart.

$$\begin{aligned} \text{Spacing} &= 2 \times \text{setback distance} \\ 4.5\text{ft.} \times 2 &= 9\text{ft. apart} \end{aligned}$$

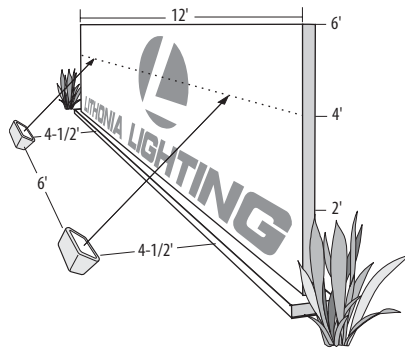


## Floodlighting Design Guidelines

### Aiming

The floodlight should be aimed at least two-thirds up the sign. For example, if a sign is six feet tall, then the floodlight will be aimed approximately four feet high. After installation is completed, aiming can be adjusted to produce the best appearance. *Mounting a full or upper visor to the floodlight can reduce unwanted glare.*

$$\begin{aligned} \text{Aiming point} &= 2/3 \times \text{sign height} \\ 2/3(6\text{ft.}) &= 4\text{ft. high} \end{aligned}$$



### Flag Lighting

Ground-mounted floodlights also can be used to light flags. Setback, spacing and aiming must all be considered.

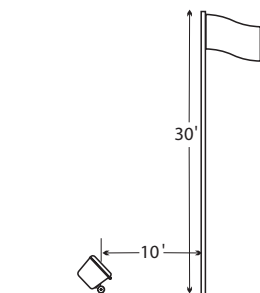
#### Flag lighting considerations:

1. Setback
2. Spacing
3. Aiming

### Setback

The recommended setback for lighting a flag is one-third times the pole height. If the pole is 30 feet tall, the floodlight should be set back a distance of 10 feet away from the pole.

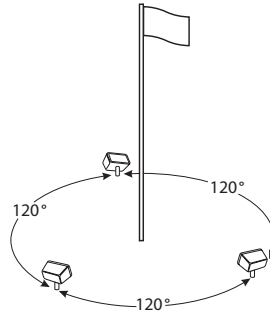
$$\begin{aligned} \text{Setback distance} &= 1/3 \times \text{pole height} \\ 1/3(30\text{ft.}) &= 10\text{ft.} \end{aligned}$$



### Spacing

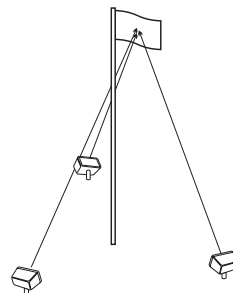
Ideally, three floodlights are recommended to light a flag. The floodlights should be placed approximately 120° apart.

3 floodlights spaced 120° apart



### Aiming

The recommended aiming point for each floodlight is the center of the flag or the top of the pole. *Mounting a full or upper visor to the floodlight can reduce unwanted spill light.*



### POLE-MOUNTED FLOODLIGHTS

#### General Area Lighting

Pole-mounted floodlights commonly are used for general area lighting applications such as parking lots and storage yards. Mounting height, spacing, vertical aiming and horizontal aiming should be considered.

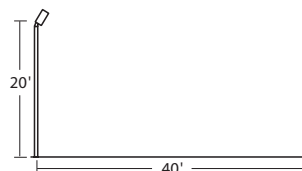
#### General lighting considerations:

1. Mounting height
2. Spacing
3. Vertical aiming
4. Horizontal aiming

### Mounting Height

The recommended mounting height is one half the distance across the area to be lighted. If the area to be lighted is 40 feet across, the lowest recommended mounting height is 20 feet.

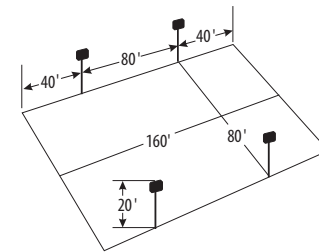
$$\begin{aligned} \text{Mounting height} &= 1/2 \text{ distance to be lighted} \\ 1/2(40\text{ft.}) &= 20\text{ft.} \end{aligned}$$



### Spacing

When more than one pole is added, pole placement is a concern. The "4 times" rule of thumb for spacing indicates that a pole should be placed four times the mounting height from the adjacent poles. If a flood is mounted on a 20-foot pole, space the poles 80 feet apart.

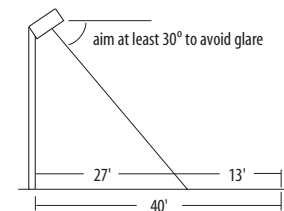
$$\begin{aligned} \text{Pole spacing} &= 4 \times \text{mounting height} \\ 4(20\text{-ft. pole}) &= 80\text{feet between poles} \end{aligned}$$



### Vertical Aiming

A single floodlight uses the two-thirds rule of thumb for vertical aiming. The fixture is aimed two-thirds of the distance across the area to be lighted and at least 30° below horizontal. If the area to be lighted is 40 feet across, the recommended aiming point is 27 feet.

$$\begin{aligned} \text{Aiming point} &= 2/3 \text{ across distance to be lighted} \\ 2/3(40\text{ft.}) &= 27\text{ft. aiming point} \end{aligned}$$

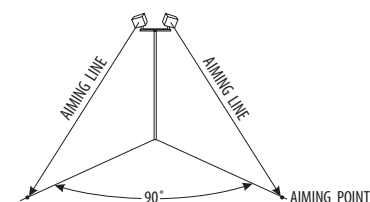


Additionally, to minimize glare, the recommended aiming point distance should never exceed twice the mounting height. If a pole is 20 feet high, the vertical aiming point should not exceed 40 feet out.

$$2(20\text{ft. mtg. ht.}) = 40\text{ft.}$$

### Horizontal Aiming

When an additional floodlight is added to a single pole, horizontal aiming also must be considered. First, each floodlight should be vertically aimed according to the two-thirds rule. As long as the floodlight has a horizontal NEMA 6 or 7 beamspread, the floodlights can be aimed up to 90° apart.



## General Information – Poles

(Poles are available only in U.S.)

All luminaire/pole assemblies require proper evaluation to ensure that the structural integrity of the assembly is not compromised when applied in specific wind conditions. Therefore, the basis for pole selection in this catalog is total weight and effective projected area, EPA (ft<sup>2</sup>), shown on the individual pole catalog pages. Determination of maximum EPA (ft<sup>2</sup>) and weight loading must include all luminaires, bracketry, signs, decoration, overhead wire or other equipment that will be mounted to the subject pole. Luminaire EPA (ft<sup>2</sup>) and weight data are found on their respective product pages.

The total effective projected area of the luminaires and brackets shall not exceed the EPA (ft<sup>2</sup>) listed for the pole selected at a given wind velocity. Poles that are to be located in areas of known abnormal conditions will require special consideration. Please consult factory if poles are required for Florida Building Code or other special wind load requirements. The map on page 553 gives the wind velocities to be used in determining luminaire pole compatibility.

NOTE: If during the pole warranty period of one year, the product proves defective in material or workmanship, the company shall correct, at its option, by repairing or replacing at no charge to the purchaser, if the purchaser promptly notifies the company. This warranty specifically excludes fatigue failure or similar phenomena resulting from induced vibration harmonic oscillation or resonance associated with the movement of air currents around the product.

### Pole Selection Procedure

- Step 1.** Select the luminaire and decide how many will be mounted per pole. Determine the Effective Projected Area, EPA (ft<sup>2</sup>), which is given on the dimensional information table.
- Step 2.** Determine the appropriate mounting method for the luminaire. Options include arm, bracket or wall mounting.
- Step 3.** Add together the EPA's (ft<sup>2</sup>) of the luminaire and arm/bracket. Multiply by number of fixtures to be mounted on one pole.
- Step 4.** Consult the Wind Map on page 553 to determine the basic wind velocity for your area.
- Step 5.** Select the material (steel or aluminum) and shape (square or round) of the pole. Refer to the "Technical Information" chart on the appropriate pole page.
  - A. Find the desired nominal mounting height in the second column.
  - B. Verify that the fixture weight does not exceed the maximum number listed.
  - C. Compare your total EPA (ft<sup>2</sup>) loading with the maximum EPA (ft<sup>2</sup>) value found in the wind speed column for your area. Check that the equipment you are using will not exceed this value.
  - D. If both the weight and EPA (ft<sup>2</sup>) values do not exceed for which the pole is rated, you have selected the correct pole. If, however, either one of those numbers exceeds the maximum rated values, compare the EPA (ft<sup>2</sup>) and fixture weight loads to the next larger pole of the same mounting height.

NOTES: "Call Before Number" and complete pole description **MUST** be included before order can be processed. Bolt templates will be shipped with anchor bolts. To pre-ship templates, place an order for the appropriate template number with [Literature.Lithonia@AcuityBrands.com](mailto:Literature.Lithonia@AcuityBrands.com). **CAUTION:** This pole selection process is a guideline only. Lithonia Lighting assumes no responsibility for selection and recommends consultation with qualified individuals for verification of luminaire/pole assembly selection.

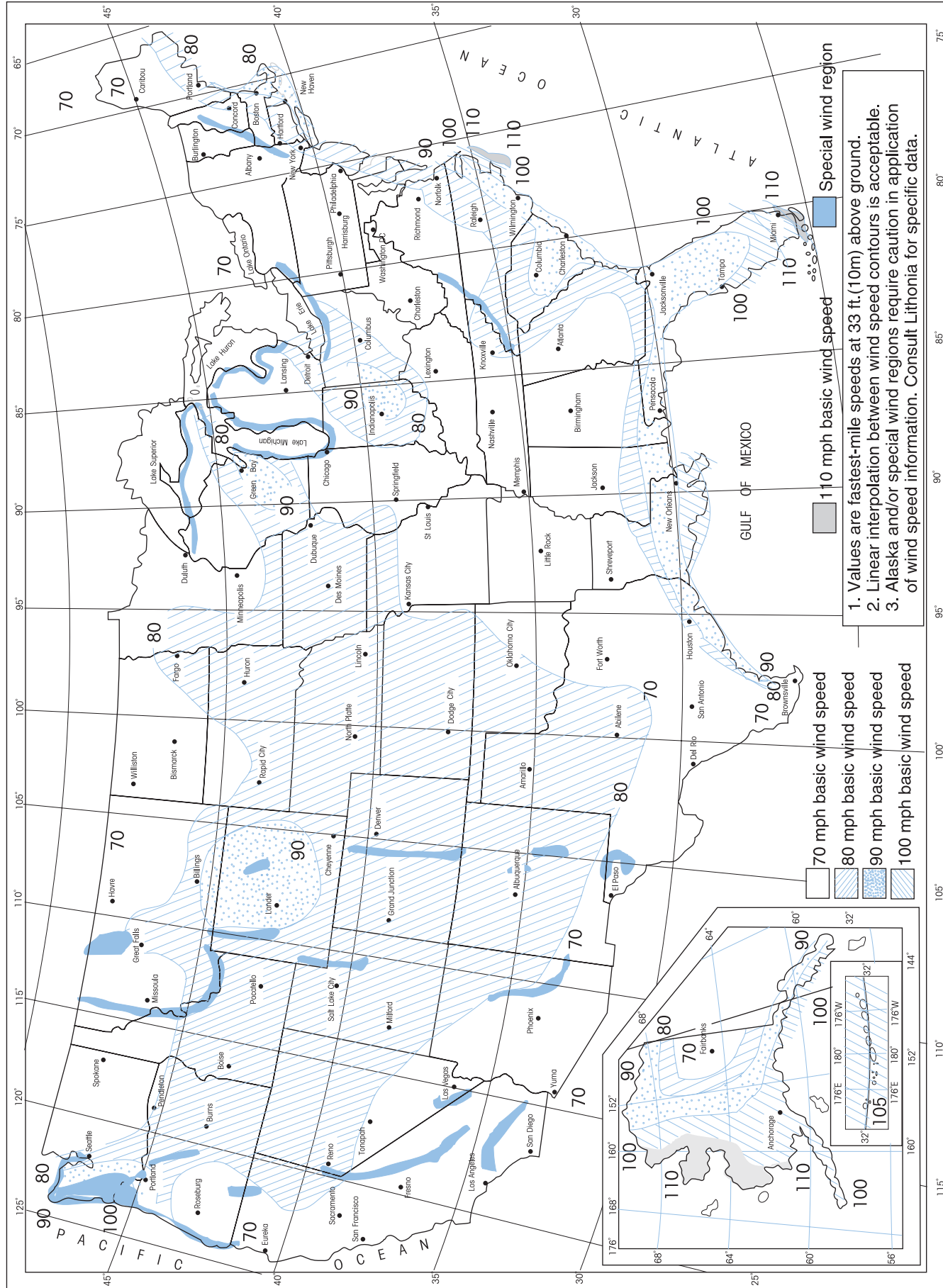
### Ordering Information

Example: **SSA 16 4G DM19 DMB**

Shaft type	Nominal mounting height	Nominal shaft base size/ wall thickness (in.)	Fixture mounting method	Options	Finish <sup>1</sup>
<b>SSS</b> Square straight steel	8-50 feet sportslighting poles up to 115'. See submittal sheets for specific information.	<b>4 C</b> 0.125	<b>PT</b> Open-top	See pages 576-579.	<i>Architectural colors<sup>2</sup></i>
<b>RSS</b> Round straight steel		<b>5 E</b> 0.156	<u>Tenon mounting</u>		<i>Polyester powder</i>
<b>STS</b> Square tapered steel		<b>6 G</b> 0.188	<b>T20</b> 2-3/8" OD (2" NPS)		<u>Standard colors</u>
<b>RTS</b> Round tapered steel		<b>7 J</b> 0.250	<b>T25</b> 2-7/8" OD (2-1/2" NPS)		<b>DDB</b> Dark bronze
<b>RTSU</b> Round tapered steel with arm(s)		<b>8 K</b> 0.312	<b>T30</b> 3-1/2" OD (3" NPS)		<b>DWH</b> White
<b>STSH</b> Square tapered steel hinged		<b>9 L</b> 0.219	<b>T35</b> 4" OD (3-1/2" NPS)		<b>DBL</b> Black
<b>SPRTS</b> Round tapered steel sportslighting		<b>10 P</b> 0.375	<u>Drill mounting</u>		<b>BA</b> Brushed Aluminum <sup>3</sup>
<b>SSA</b> Square straight aluminum		<b>DM19</b> 1 at 90°	<u>Aeris drill mounting</u>		<u>Classic colors</u>
<b>SSCA</b> Square straight aluminum, cruciform		<b>DM28</b> 2 at 180°	<b>DM19AS</b> 1 at 90°		<b>DMB</b> Medium bronze
<b>RSA</b> Round straight aluminum		<b>DM29</b> 2 at 90°	<b>DM28AS</b> 2 at 180°		<b>DNA</b> Natural aluminum
<b>RTA</b> Round tapered aluminum	<b>DM39</b> 3 at 90°	<b>DM29AS</b> 2 at 90°	<b>DSS</b> Sandstone		
<b>RTAU</b> Round tapered aluminum with arm(s)	<b>DM49</b> 4 at 90°	<b>DM39AS</b> 3 at 90°	<b>DGC</b> Charcoal gray		
<b>RSAH</b> Round straight aluminum hinged	<b>DM32</b> 3 at 120° (round poles)	<b>DM49AS</b> 4 at 90°	<b>DTG</b> Tennis green		
<b>SSAH</b> Square straight aluminum hinged		<b>DM32AS</b> 3 at 120° (round poles)	<b>DBR</b> Bright red		
<b>RTF</b> Round tapered fiberglass			<b>DSB</b> Steel blue		
<b>RTFDB</b> Round tapered fiberglass direct burial			<u>Class 1 architectural anodize<sup>4</sup></u>		
<b>SSF</b> Square straight fiberglass			<b>ABL</b> Black		
<b>STC</b> Square tapered concrete			<b>ADB</b> Dark bronze		
<b>SPRTC</b> Round tapered concrete sportslighting			<b>ANA</b> Natural		
			<u>Existing colors</u>		
			<b>MAEX</b> Match existing		

NOTES:

- 1 Finish must be specified (poles do NOT ship DDB as standard).
- 2 Additional architectural colors available; see Architectural Colors brochure on [www.lithonia.com](http://www.lithonia.com).
- 3 Aluminum poles only.
- 4 RTA, RSA, SSA, RTAU, RSAU, SSSA only.



## Square Straight Steel

# SSS

### Features

Shaft – Weldable grade, hot-rolled, commercial-quality carbon steel tubing with a minimum yield of 55,000 psi (11-gauge), 50,000 psi (7-gauge). Uniform wall thickness of .125" or .188". Shaft is one piece with a longitudinal, electric, resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4, 5 and 6 inches.

Anchor Base – Fabricated from hot-rolled carbon steel plate that meets or exceeds a minimum-yield strength of 36,000 psi. The anchor base is provided with slotted holes.

Anchor Bolts – Top 12" galvanized per ASTM A-153. Made of 3/4" or 1" diameter steel rod having a minimum-yield strength of 55,000 psi.

Grounding – Nut holder located immediately inside hand-hole rim is tapped for a 1/2"-13 UNC ground bolt and nut (provided by others).

Hand hole – Rectangular, reinforced hand-hole rim having nominal dimensions of 3"x5" for all shafts. Included is steel cover with attachment screws.

Hardware – Fasteners are high-strength, galvanized zinc-plated or stainless steel.

Top Cap – Top cap is provided for drill-mount poles.

Finish – Must specify finish.

Base Cover – Full-base cover finished to match pole.

**lightquick<sup>®</sup> XD**

Express delivery products.

See page 11 for details about LightQuick XD.

*Description*

**SSS 20 4C DM28 PL DDB SHAFT**

**ABSSS-4C**

### Ordering Information: See page 552

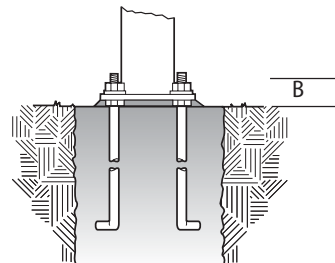
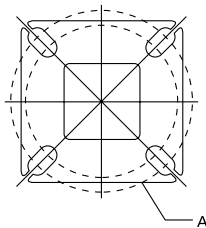
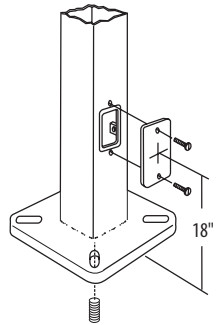
NOTE: Poles are available only in U.S.

#### INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.



### Technical Information

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	Gauge	80 mph	Max. wt.	90 mph	Max. wt.	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
<b>SSS 10 4C</b>	10	4.0x10.0	0.125	11	30.6	765	23.8	595	18.9	473	8-9	3/4x18x3	75
<b>SSS 12 4C</b>	12	4.0x12.0	0.125	11	24.4	610	18.8	470	14.8	370	8-9	3/4x18x3	90
<b>SSS 14 4C</b>	14	4.0x14.0	0.125	11	19.9	498	15.1	378	11.7	293	8-9	3/4x18x3	100
<b>SSS 16 4C</b>	16	4.0x16.0	0.125	11	15.9	398	11.8	295	8.9	223	8-9	3/4x18x3	115
<b>SSS 18 4C</b>	18	4.0x18.0	0.125	11	12.6	315	9.2	230	6.7	168	8-9	3/4x18x3	125
<b>SSS 20 4C</b>	20	4.0x20.0	0.125	11	9.6	240	6.7	167	4.5	150	8-9	3/4x18x3	140
<b>SSS 20 4G</b>	20	4.0x20.0	0.188	7	16.5	415	12.25	310	9.3	240	8-9	3/4x30x3	198
<b>SSS 20 5C</b>	20	5.0x20.0	0.125	11	17.7	443	12.7	343	9.4	235	10-12	1x36x4	185
<b>SSS 20 5G</b>	20	5.0x20.0	0.188	7	28.1	703	21.4	535	16.2	405	10-12	1x36x4	265
<b>SSS 25 4C</b>	25	4.0x25.0	0.125	11	4.8	150	2.6	100	1.0	50	8-9	3/4x18x3	170
<b>SSS 25 4G</b>	25	4.0x25.0	0.188	7	10.8	270	7.7	188	5.4	135	8-9	3/4x30x3	245
<b>SSS 25 5C</b>	25	5.0x25.0	0.125	11	9.8	245	6.3	157	3.7	150	10-12	1x36x4	225
<b>SSS 25 5G</b>	25	5.0x25.0	0.188	7	18.0	350	12.6	350	9.0	250	10-12	1x36x4	320
<b>SSS 30 4G</b>	30	4.0x30.0	0.188	7	6.4	160	4.0	100	2.3	58	8-9	3/4x30x3	295
<b>SSS 30 5C</b>	30	5.0x30.0	0.125	11	4.7	150	2.0	50	—	—	10-12	1x36x4	265
<b>SSS 30 5G</b>	30	5.0x30.0	0.188	7	10.7	267	6.7	167	3.9	100	10-12	1x36x4	380
<b>SSS 30 6G</b>	30	6.0x30.0	0.188	7	15.7	392	10.2	257	6.4	160	11-13	1x36x4	520
<b>SSS 35 5G</b>	35	5.0x35.0	0.188	7	5.9	150	2.5	100	—	—	10-12	1x36x4	440
<b>SSS 35 6G</b>	35	6.0x35.0	0.188	7	9.5	237	5.0	150	1.8	50	11-13	1x36x4	540
<b>SSS 39 6G</b>	39	6.0x39.0	0.188	7	5.1	128	1.3	33	—	—	11-13	1x36x4	605

#### Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square	Anchor bolt and template description	Anchor bolt description	Template number
4"C	8-1/2"	2-3/4"-4"	8"	ABSSS-4C	AB18-0	PJ50004
4"G	8-1/2"	2-3/4"-4"	8"	ABSSS-4G	AB30-0	PJ50004
5"	10"-12"	3-3/8"-4"	11"	ABSSS-5	AB36-0	PJ50010
6"	11"-13"	3-3/8"-4"	12-1/2"	ABSSS-6	AB36-0	PJ50011

#### NOTES:

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS).
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°.
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are normal. Actual bolt lengths may vary.
- Direct burial option available, consult factory.
- Galvanized anchor bolts available. Consult factory.
- Consult factory if product must meet "Buy America" specifications.

www.lithonia.com, keyword: SSS



# RSS

### Features

Shaft – Weldable grade A500 or A513 carbon steel tubing with minimum yield of 46,000 or 42,000 psi. Uniform wall thickness of .120". Shafts are one-piece construction with a full longitudinal weld. The round, straight tube is uniform in cross-section down length of shaft.

Anchor Base – Fabricated from carbon steel plate (ASTM A-36) 3/4" thickness. Base plate and shaft are circumferentially welded at both top and bottom to provide maximum strength at area of critical stress.

Anchor Bolts – Top 12" is galvanized per ASTM

A-153. Made of carbon steel bar with minimum-yield strength of 55,000 psi.

Grounding – Nut holder located immediately inside hand hole is tapped for 1/2"-13 UNC ground bolt and nut (provided by others).

Hand hole – Nominal 3"x5" hand hole is located 18" above base. Cover and attachment hardware provided.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Top cap is provided for drill-mount poles.

Finish – Must specify finish.

Base Cover – Full-base cover finished to match pole.

### Technical Information

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thck. (in.)	80 mph	Max. wt.	90 mph	Max. wt.	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
RSS 8 4-5B	8	4.5 x 8.0	0.120	24.5	615	19.5	490	15.8	395	8	3/4 x 18 x 3	55
RSS 10 3B	10	3.0 x 10.0	0.120	10	250	7.7	190	6.0	175	8	3/4 x 18 x 3	55
RSS 10 4B	10	4.0 x 10.0	0.120	19.1	480	15.0	375	12.2	305	8	3/4 x 18 x 3	70
RSS 10 4-5B	10	4.5 x 10.0	0.120	24.5	615	19.5	490	15.8	395	8	3/4 x 18 x 3	75
RSS 12 3B	12	3.0 x 12.0	0.120	7.7	195	5.8	145	4.4	130	8	3/4 x 18 x 3	60
RSS 12 4B	12	4.0 x 12.0	0.120	15.0	390	11.8	300	9.5	240	8	3/4 x 18 x 3	80
RSS 12 4-5B	12	4.5 x 12.0	0.120	19.8	495	15.7	395	12.7	320	8	3/4 x 18 x 3	85
RSS 14 3B	14	3.0 x 14.0	0.120	6.0	175	4.4	130	3.3	90	8	3/4 x 18 x 3	70
RSS 14 4B	14	4.0 x 14.0	0.120	12.2	305	9.4	250	7.6	195	8	3/4 x 18 x 3	90
RSS 14 4-5B	14	4.5 x 14.0	0.120	16.2	405	12.8	320	10.3	260	8	3/4 x 18 x 3	95
RSS 15 4-5B	15	4.5 x 15.0	0.120	13.1	330	10.2	265	8.2	205	8	3/4 x 18 x 3	96
RSS 16 3B	16	3.0 x 16.0	0.120	4.6	125	3.2	100	2.3	60	8	3/4 x 18 x 3	80
RSS 16 4B	16	4.0 x 16.0	0.120	9.6	250	7.4	185	5.9	150	8	3/4 x 18 x 3	100
RSS 16 4-5B	16	4.5 x 16.0	0.120	13.1	330	10.2	265	8.2	205	8	3/4 x 18 x 3	105
RSS 18 3B	18	3.0 x 18.0	0.120	3.4	90	2.3	60	1.4	70	8	3/4 x 18 x 3	90
RSS 18 4B	18	4.0 x 18.0	0.120	7.6	190	5.7	180	4.5	130	8	3/4 x 18 x 3	110
RSS 18 4-5B	18	4.5 x 18.0	0.120	10.5	265	8.2	210	6.5	165	8	3/4 x 18 x 3	115
RSS 20 3B	20	3.0 x 20.0	0.120	2.4	100	1.4	75	—	—	8	3/4 x 18 x 3	100
RSS 20 4B	20	4.0 x 20.0	0.120	6.0	150	4.45	150	3.45	125	8	3/4 x 18 x 3	120
RSS 20 4-5B	20	4.5 x 20.0	0.120	8.5	215	6.6	165	5.2	130	8	3/4 x 18 x 3	130
RSS 20 5B	20	5.0 x 20.0	0.120	11.75	300	9.1	230	7.25	180	8	3/4 x 18 x 3	145
RSS 22 4-5B	22	4.5 x 22.0	0.120	4.8	130	3.6	90	2.7	90	8	3/4 x 18 x 3	134
RSS 25 4B	25	4.0 x 25.0	0.120	2.85	100	1.95	75	1.35	75	8	3/4 x 18 x 3	145
RSS 25 4-5B	25	4.0 x 25.0	0.120	4.8	130	3.6	90	2.7	90	8	3/4 x 18 x 3	145
RSS 25 5B	25	5.0 x 25.0	0.120	7.25	180	5.5	150	4.25	150	8	3/4 x 18 x 3	180
RSS 30 4-5B	30	4.5 x 30.0	0.120	2.3	80	1.5	75	1.0	60	8	3/4 x 18 x 3	185
RSS 30 5B	30	5.0 x 30.0	0.120	4.2	150	3	125	2.25	100	8	3/4 x 18 x 3	210

### Ordering Information: See page 552

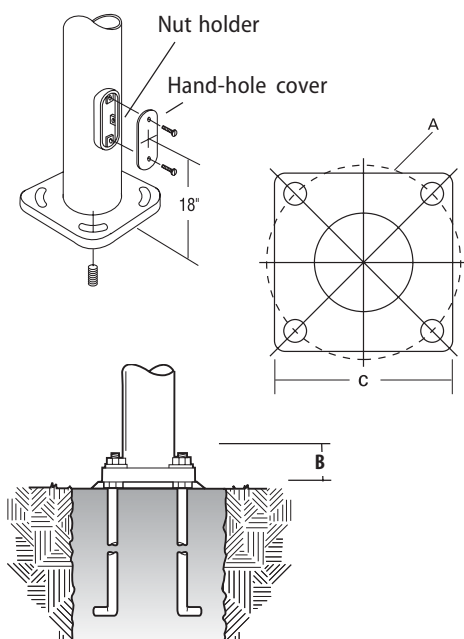
NOTE: Poles are available only in U.S.

#### INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. Do not erect poles without having fixtures installed. If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

#### NOTES:

- Mounting arrangement: (PT) open top accepts KKR; (T20) 2-3/8" OD (2" NPS).
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°.
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are nominal. Actual bolt lengths may vary.
- Direct burial option available, consult factory.
- 3-bolt bases available.
- Galvanized anchor bolts available, consult factory.
- Consult factory if product must meet "Buy America" specifications.



### Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
3	8"	3-1/4" x 3-1/2"	8"	AB18-0	PJ50041
4"	8"	3-1/4" x 3-1/2"	8"	AB18-0	PJ50041
4-1/2"	8"	3-1/4" x 3-1/2"	8"	AB18-0	PJ50041
5"	8"	3-1/4" x 3-1/2"	8"	AB18-0	PJ50041

## Square Tapered Steel

# STS

### Features

**Shaft** – Minimum weldable-grade (ASTM A-595 Grade A) hot-rolled commercial-quality carbon steel tubing with minimum yield of 55,000 psi. Uniform wall thickness of 11-gauge (0.1196") or 7-gauge (0.1793"). Shafts are constructed with full-length longitudinal high-frequency resistance welds and are round in cross-section, having a uniform taper of approximately .11" per foot.

**Anchor Base** – Fabricated from hot-rolled carbon steel plate that conforms with ASTM A36.

**Anchor Bolts** – Fabricated from commercial-quality, hot-rolled carbon steel with minimum-yield strength of 55,000 psi. Bolts have an "L" bend on one end.

**Grounding** – Nut holder located immediately inside hand-hole rim is tapped for a 1/2"-13 UNC ground bolt and nut (provided by others).

**Hand hole** – Rectangular, reinforced hand-hole rim having nominal dimensions of 3"x5" for shafts less than 6.375" square and 4"x6.5" for all other shafts. Steel cover with attachment screws in-

cluded. Hand hole is located 18" above base.

**Hardware** – Fasteners are high-strength galvanized zinc-plated or stainless steel.

**Top Cap** – Top cap provided with all drill-mount poles.

**Finish** – Dark bronze polyester powder finish (DDB) standard; other architectural colors available.

**Base Cover** – Full-base cover standard.

### Ordering Information: See page 552

NOTE: Poles are available only in U.S.

#### INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. Do not erect poles without having fixtures installed. If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

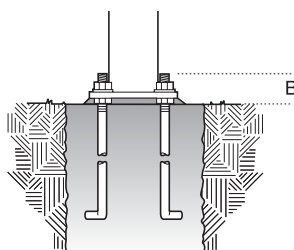
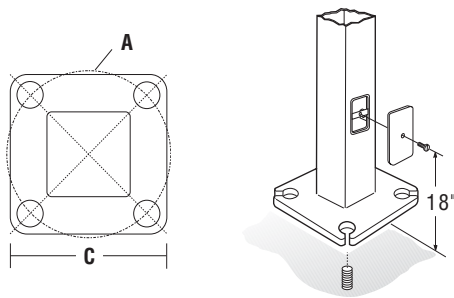
#### NOTES:

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are normal. Actual bolt lengths may vary.
- Direct burial option available, consult factory.
- Galvanized anchor bolts available, consult factory.
- Consult factory if product must meet "Buy America" specifications.

### Technical Information

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thck. (in.)	Gauge	80 mph	Max. wt.	90 mph	Max. wt.	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx ship wt. (lbs.)
<b>STS 20 5-2B</b>	20	5.25 x 3.05 x 20	0.125	11	18.0	452	13.8	345	10.7	268	10-3/4	1 x 36 x 4	155
<b>STS 20 5-5F</b>	20	5.50 x 3.30 x 20	0.188	7	30.5	764	24.0	602	19.0	477	11	1 x 36 x 4	235
<b>STS 25 6-0B</b>	25	6.00 x 3.25 x 25	0.125	11	16.8	422	12.6	315	9.5	238	12	1 x 36 x 4	205
<b>STS 25 6-4F</b>	25	6.41 x 3.66 x 25	0.188	7	28.5	713	22.5	563	18.2	455	12-1/2	1 x 36 x 4	310
<b>STS 30 6-4B</b>	30	6.41 x 3.11 x 30	0.125	11	13.6	340	9.8	245	7.0	175	12-1/2	1 x 36 x 4	260
<b>STS 30 6-4F</b>	30	6.41 x 3.11 x 30	0.188	7	23.6	590	17.9	448	13.7	343	12-1/2	1 x 36 x 4	375
<b>STS 35 6-8B</b>	35	6.81 x 2.96 x 35	0.125	11	10.7	269	7.3	184	4.8	120	13	1 x 36 x 4	305
<b>STS 35 7-1F</b>	35	7.13 x 3.28 x 35	0.188	7	23.4	585	17.4	435	13.0	325	13-1/2	1 x 36 x 4	475
<b>STS 39 7-1B</b>	39	7.18 x 2.92 x 39	0.125	11	8.6	215	5.4	135	3.0	75	13-1/2	1 x 36 x 4	345
<b>STS 39 7-1F</b>	39	7.13 x 2.87 x 39	0.188	7	19.3	483	14.2	355	10.4	260	13-1/2	1 x 36 x 4	500
<b>STS 45 7-8F</b>	45	7.88 x 2.93 x 45	0.188	7	16.0	400	11.1	278	7.4	187	14-1/2	1 x 36 x 4	620
<b>STS 45 8-7F</b>	45	8.75 x 3.80 x 45	0.188	7	23.5	588	16.6	415	11.4	287	15-3/4	1-1/4 x 42 x 6	730
<b>STS 50 8-8F</b>	50	8.81 x 3.31 x 50	0.188	7	19.4	485	13.2	332	8.7	218	16	1-1/4 x 42 x 6	780



Pole Data					
Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
5.2" B	10-3/4"	3-1/2"-4-1/4"	10-3/4"	AB36-0	PJ50095
5.5" F	11"	3-3/4"-4-1/2"	11"	AB36-0	PJ50096
6.0" B	12"	3-1/2"-4-1/4"	11-1/2"	AB36-0	PJ50097
6.4" F	12-1/2"	4"-4-3/4"	11-7/8"	AB36-0	PJ50098
6.4" B	12-1/2"	3-1/2"-4-1/4"	11-7/8"	AB36-0	PJ50099
6.8" B	13"	3-1/2"-4-1/4"	12-1/4"	AB36-0	PJ50101
7.1" F	13-1/2"	4-1/4"-5"	12-5/8"	AB36-0	PJ50102
7.1" B	13-1/2"	3-1/2"-4-1/4"	12-5/8"	AB36-0	PJ50103
7.8" F	14-1/2"	4"-4-3/4"	13-3/8"	AB36-0	PJ50105
8.7" F	15-3/4"	4-3/4"-5-1/2"	14-1/4"	AB42-0	PJ50106
8.8" F	16"	4-1/2"-5-1/4"	15-1/2"	AB42-0	PJ50107

# RTS

### Features

Shaft – Minimum weldable-grade (ASTM A-595 Grade A), hot-rolled, commercial-quality carbon steel tubing with minimum yield of 55,000 psi. Uniform wall thickness of 11-gauge (0.1196") or 7-gauge (0.1793"). Shafts are constructed with full-length, longitudinal, high-frequency resistance welds. Round in cross-section, having uniform taper of approximately .14" per foot.

Anchor Base – Fabricated from hot-rolled carbon steel plate that conforms to ASTM A36.

Hand hole – Rectangular, reinforced hand-hole rim having nominal dimensions of 3"x5" for shafts

less than 6.25" base diameter and 4"x6.5" for all other shafts. Steel cover with attachment screws included. Hand hole is located 18" above base.

Grounding – Nut holder located immediately inside hand-hole rim is tapped for 1/2"-13 UNC ground bolt and nut (provided by others).

Anchor Bolts – Fabricated from commercial-quality hot-rolled carbon steel with minimum yield strength of 55,000 psi. Bolts have an "L" bend on one end.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Top cap provided with all drill-mount poles.

Finish – Must specify finish.

Base Cover – Full-base cover standard.

### Technical Information

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	Gauge	80 mph	Max. 90 mph	90 mph	Max. 100 mph	100 mph	Max. Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)	
RTS 20 5-9B	20	5.9 x 3.1 x 20	0.125	11	19.3	482	15.1	377	12.2	305	9.0	1 x 36 x 4	140
RTS 20 6-5B	20	6.5 x 3.7 x 20	0.125	11	24.2	605	19.3	482	15.6	390	9.5	1 x 36 x 4	160
RTS 25 5-9B	25	5.9 x 2.4 x 25	0.125	11	12.5	312	9.9	247	8	200	9.0	1 x 36 x 4	155
RTS 25 7-0B	25	7.0 x 3.5 x 25	0.125	11	20.3	507	16.2	405	13.1	327	10.0	1 x 36 x 4	200
RTS 25 7-0F	25	7.0 x 3.5 x 25	0.188	7	28.5	713	22.5	563	18.2	455	10.0	1 x 36 x 4	280
RTS 30 6-6B	30	6.6 x 2.4 x 30	0.125	11	11.7	292	9.3	232	7.5	187	9.5	1 x 36 x 4	200
RTS 30 8-0B	30	8.0 x 3.8 x 30	0.125	11	18.9	473	14.9	373	12	300	11.0	1 x 36 x 4	265
RTS 30 8-0F	30	8.0 x 3.8 x 30	0.188	7	27.5	550	21.6	542	17.5	439	11.0	1-1/4 x 42 x 6	380
RTS 35 7-3B	35	7.3 x 2.4 x 35	0.125	11	11.2	280	8.9	222	7.1	177	10.5	1 x 36 x 4	250
RTS 35 8-5B	35	8.5 x 3.6 x 35	0.125	11	18.9	472	15.1	377	12.2	305	11.5	1 x 36 x 4	315
RTS 35 9-5B	35	9.5 x 4.6 x 35	0.125	11	23.2	580	18.2	455	14.5	363	13.0	1 x 36 x 4	370
RTS 39 7-8B	39	7.8 x 2.4 x 39	0.125	11	10.7	267	8.5	212	6.6	165	11.0	1 x 36 x 4	285
RTS 39 9-0B	39	9.0 x 3.6 x 39	0.125	11	17.2	430	13.5	338	10.8	270	12.5	1 x 36 x 4	355
RTS 39 9-0F	39	9.0 x 3.6 x 39	0.188	7	26.1	654	20.6	517	16.7	419	12.5	1-1/4 x 42 x 6	515
RTS 45 10-0B	45	10.0 x 3.7 x 45	0.125	11	17.4	435	13.5	338	10.6	265	13.5	1 x 36 x 4	450
RTS 45 10-0F	45	10.0 x 3.7 x 45	0.188	7	25.5	639	20.2	505	16.3	409	13.5	1-1/4 x 42 x 6	650
RTS 50 10-0B	50	10.0 x 3.0 x 50	0.125	11	13.2	330	10.6	265	8.3	208	13.5	1 x 36 x 4	475
RTS 50 10-0F	50	10.0 x 3.0 x 50	0.188	7	20.5	512	16.5	412	13.6	340	13.5	1-1/4 x 42 x 6	680

### Ordering Information: See page 552

Note: Poles are available only in U.S.

#### INSTALLATION NOTES:

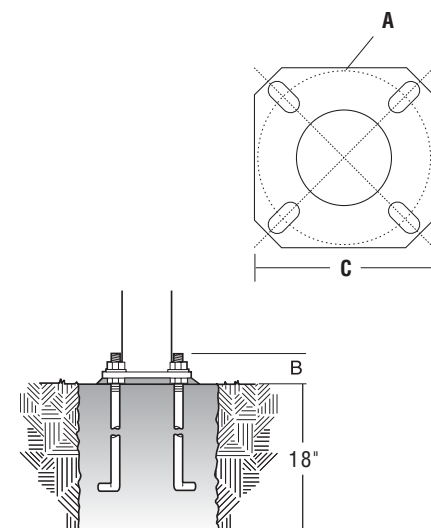
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. Do not erect poles without having fixtures installed. If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

#### NOTES:

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are nominal, actual lengths may vary.
- Direct burial option available, consult factory.
- 3-bolt bases available.
- Galvanized anchor bolts available, consult factory.
- Consult factory if product must meet "Buy American" specifications.
- Stainless steel poles available, consult factory.

### Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
5.9" B	9"	3-1/2"-4-1/4"	10"	AB36-0	PJ50075
6.5" B	9.5"	3-1/2"-4-1/4"	10-1/2"	AB36-0	PJ50074
7.0" B	10"	3-1/2"-4-1/4"	10-7/8"	AB36-0	PJ50077
7.0" F	10"	3-3/4"-4-1/2"	10-7/8"	AB36-0	PJ50076
6.6" B	9.5"	3-1/2"-4-1/4"	10-1/2"	AB36-0	PJ50078
8.0" B	11"	3-1/2"-4-1/4"	11-1/2"	AB36-0	PJ50079
8.0" F	11"	4-1/2"-5-1/4"	11-1/2"	AB42-0	PJ50080
7.3" B	10.5"	3-1/2"-4-1/4"	11-1/4"	AB36-0	PJ50081
8.5" B	11.5"	3-3/4"-4-1/2"	12"	AB36-0	PJ50082
9.5" B	13"	3-3/4"-4-1/2"	13"	AB36-0	PJ50083
7.8" B	11"	3-3/4"-4-1/2"	11-1/2"	AB36-0	PJ50084
9.0" B	12.5"	3-3/4"-4-1/2"	12-3/8"	AB36-0	PJ50085
9.0" F	12.5"	4-1/2"-5-1/4"	12-3/8"	AB42-0	PJ50086
10.0" B	13.5"	3-3/4"-4-1/2"	14"	AB36-0	PJ50087
10.0" F	13.5"	4-1/2"-5-1/4"	14"	AB42-0	PJ50088



## Round Tapered Steel with Upswept Mast Arms

# RTSU

### Features

**Shaft** – Weldable-grade, hot-rolled, commercial quality carbon steel tubing with a minimum yield of 55,000 psi. Uniform wall thickness of 11-gauge (0.1196") or 7-gauge (0.1793"). Shafts are one-piece construction with a full-length longitudinal high-frequency resistance weld. Round in cross-section having a uniform taper of approximately .14" per foot.

**Arm** – Body is 2-3/8" O.D. (2" NPS) galvanized stell tube (sch. 40 material, min. yield strength 36,000 psi). Welding follows AWS standards. Arms are galvanized after fabrication.

**Mounting** – Mounting plate is designed to be bolted to the shaft using a 1/2" steel bolt Simplex mount. Single-bolt (US4, US6, US8) or multi-bolt design (U10, U12).

**Anchor Base** – Fabricated from hot rolled carbon steel plate that conforms to ASTM A36.

**Anchor Bolts** – Fabricated from commercial quality hot-rolled carbon steel with minimum yield strength of 55,000 psi.

**Grounding** – Ground lug located immediately inside hand hole.

**Hand hole** – Rectangular, reinforced hand-hole rim having nominal dimensions of 3"x 5" for

shafts less than 6.25" base diameter and 4"x 6.5" for all other shafts. Steel cover with attachment screws included. Hand hole is located 18" above base.

**Hardware** – Fasteners are high-strength galvanized zinc-plated or stainless steel.

**Top Cap** – Top cap provided.

**Finish** – Must specify finish.

**Base Cover** – Full base cover is standard.

### Ordering Information: See page 552

Note: Poles are available only in U.S.

#### INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. Do not erect poles without having fixtures installed. If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

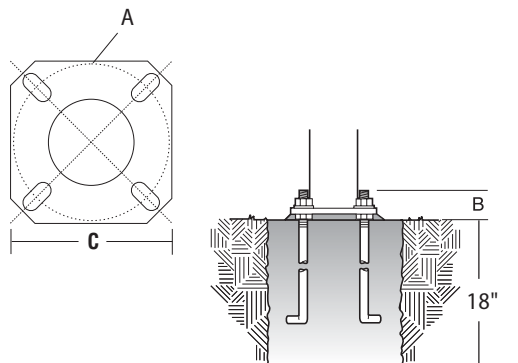
#### NOTES:

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Bracket, see page 578.
- Bolt lengths described are nominal, actual lengths may vary.

- Direct burial option available, consult factory.
- 3-bolt bases available.
- Galvanized anchor bolts available, consult factory.
- Consult factory if product must meet "Buy American" specifications.
- Stainless steel poles available, consult factory.

### Technical Information

Catalog number		Nom. mount. (ft.)	Mtg. arm length (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	(per arm) EPA ft <sup>2</sup> w/1.3 gust up to 100 mph	Bolt max. wt. (lbs.)	circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs)	
										Single arms	Double arms
<i>Single arms</i>	<i>Double arms</i>										
RTSU 20 5-9B SMP US4	RTSU 20 5-9B SMP 2US4	20	4'	5.9"	0.120"	2	76	9.0	1 x 36 x 4	140	240
RTSU 20 5-9B SMP US6	RTSU 20 5-9B SMP 2US6	20	6'	5.9"	0.120"	2	76	9.0	1 x 36 x 4	140	240
RTSU 20 5-9B SMP US8	RTSU 20 5-9B SMP 2US8	20	8'	5.9"	0.120"	2	76	9.0	1 x 36 x 4	140	240
RTSU 25 5-9B SMP US4	RTSU 25 5-9B SMP 2US4	25	4'	5.9"	0.120"	2	76	9.0	1 x 36 x 4	205	255
RTSU 25 5-9B SMP US6	RTSU 25 5-9B SMP 2US6	25	6'	5.9"	0.120"	2	76	9.0	1 x 36 x 4	205	255
RTSU 25 5-9B SMP US8	RTSU 25 5-9B SMP 2US8	25	8'	5.9"	0.120"	2	76	9.0	1 x 36 x 4	205	255
RTSU 30 6-6B SMP US4	RTSU 30 6-6B SMP 2US4	30	4'	6.5"	0.120"	2	76	9.5	1 x 36 x 4	250	300
RTSU 30 6-6B SMP US6	RTSU 30 6-6B SMP 2US6	30	6'	6.5"	0.120"	2	76	9.5	1 x 36 x 4	250	300
RTSU 30 6-6B SMP US8	RTSU 30 6-6B SMP 2US8	30	8'	6.5"	0.120"	2	76	9.5	1 x 36 x 4	250	300
RTSU 35 7-3B SMP US4	RTSU 35 7-3B SMP 2US4	35	4'	7.3"	0.120"	2	76	10.5	1 x 36 x 4	300	350
RTSU 35 7-3B SMP US6	RTSU 35 7-3B SMP 2US6	35	6'	7.3"	0.120"	2	76	10.5	1 x 36 x 4	300	350
RTSU 35 7-3B SMP US8	RTSU 35 7-3B SMP 2US8	35	8'	7.3"	0.120"	2	76	10.5	1 x 36 x 4	300	350
RTSU 40 9-0B SMP US4	RTSU 40 9-0B SMP 2US4	40	4'	9"	0.120"	2	76	12.5	1 x 36 x 4	405	455
RTSU 40 9-0B SMP US6	RTSU 40 9-0B SMP 2US6	40	6'	9"	0.120"	2	76	12.5	1 x 36 x 4	405	455
RTSU 40 9-0B SMP US8	RTSU 40 9-0B SMP 2US8	40	8'	9"	0.120"	2	76	12.5	1 x 36 x 4	405	455



#### Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
5.9"	9.0"	3.5" - 4.25"	10.0"	AB36-0	PJ50075
6.5"	9.5"	3.5" - 4.25"	10.5"	AB36-0	PJ50074
7.0"	10.0"	3.5" - 4.25"	10-7/8"	AB36-0	PJ50077
7.3"	10.5"	3.5" - 4.25"	11.25"	AB36-0	PJ50133
7.5"	10.5"	3.5" - 4.25"	11.25"	AB36-0	PJ50133
8.0"	11.0"	3.5" - 4.25"	11.5"	AB36-0	PJ50079
9.0"	12.5"	3.75" - 4.5"	12-3/8"	AB36-0	PJ50085
9.5"	13.0"	4.0"-4.5"	13.0"	1 x 36 x 4	PJ50134
10.0"	13.5"	4.0"-4.5"	14.0"	1 x 36 x 4	PJ50135
10.5"	14.0"	4.5"-5.0"	14.5"	1.25 x 42 x 6	PJ50136

Square Tapered Steel, Hinged

# STSH

**Features**

Shaft – Weldable-grade, hot-rolled, commercial-quality carbon steel having a guaranteed minimum yield strength of 55,000 psi and is supplied in 11-gauge (.1196") or 7-gauge (.1793") nominal thickness. Pole is one-piece construction with full-length, longitudinal, high-frequency, electric-resistance weld. Shaft is square in cross section having flat sides, radiused corners, and uniform taper of approximately 0.11 inches per foot of length (4-inch square poles are not tapered).

Hinge – The hinge includes a stainless steel hinge pin. A flexible wiring guide is provided,

passing through the hinge area for wiring protection. Hinge is external.

Anchor Base – Fabricated from hot-rolled carbon steel plate that conforms with ASTM A36.

Anchor Bolts – Fabricated from commercial-quality, hot-rolled carbon steel with minimum-yield strength of 55,000 psi. Bolts have an "L" bend on one end.

Grounding – Nut holder located immediately inside hand-hole rim is tapped for a 1/2"-3 UNC ground bolt and nut (provided by others).

Hand hole – Rectangular, reinforced hand-hole rim having nominal dimensions of 3" x 5" for

shafts less than 6.375" square and 4" x 6.5" for all other shafts. Steel cover with attachment screws included. Hand hole is located 18" above base.

Hardware – Fasteners are high-strength, galvanized zinc-plated or stainless steel.

Top Cap – Top cap provided with all drill-mount poles.

Finish – Must specify finish.

Base Cover – Full-base cover is provided.

**Technical Information**

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in.xin.xft.)	Wall thick. (in.)	Gauge	80 mph	Max. wt.	90 mph	Max. wt.	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in.xin.xin.)	Approx. ship wt. (lbs)
STSH 20 4F	20	4x4x20	0.188	7	11.6	217	8.5	217	6.2	217	8-1/2-10	3/4x18x3	300
STSH 25 4B	25	4x4x25	0.125	11	7.1	160	4.8	160	3.1	160	8-1/2-10	3/4x18x3	370
STSH 25 6-4B	25	6.41x3.63x25	0.125	11	18.0	254	13.0	254	9.3	254	12-1/2	1x36x4	355
STSH 30 4F	30	4x4x30	0.188	7	4.0	120	2.1	120	0.8	120	8-1/2-10	3/4x18x3	435
STSH 30 6-4B	30	6.41x3.08x30	0.125	11	12.5	230	8.3	230	5.1	230	12-1/2	1x36x4	440
STSH 35 7-1B	35	7.18x2.88x35	0.125	11	7.1	160	3.2	160	—	—	13-1/2	1x36x4	540
STSH 35 7-1F	35	7.13x2.87x35	0.188	7	22.0	155	16.9	155	12.1	155	13-1/2	1x36x4	700
STSH 39 7-1F	39	7.13x2.87x39	0.188	7	19.5	110	13.5	110	9.2	110	13-1/2	1x36x4	740

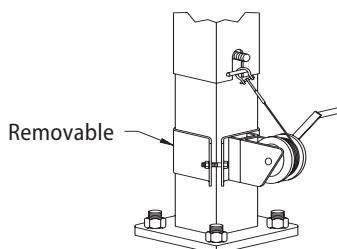
**Pole Data**

Shaft base size	Bolt circle A	Bolt projection B	Base square	Anchor bolt description	Template number
4.0" F	8-1/2"-10"	3-1/2"-4-1/4"	9-3/4"	AB18-0	PJ50091
6.4" B	12-1/2"	3-3/4"-4-1/2"	11-7/8"	AB36-0	PJ50092
7.1" F	13-1/2"	4"-4-3/4"	12-5/8"	AB36-0	PJ50093
7.1" B	13-1/2"	3-1/2"-4-1/4"	12-5/8"	AB36-0	PJ50094

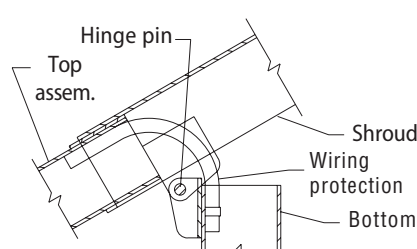
**Winch Ordering**

Family	Winch	Shaft size	Order nomenclature
STSH	WCH	4F	STSHWCH 4F
		6-4B	STSHWCH 6-4B
		7-1B	STSHWCH 7-1B
		7-1F	STSHWCH 7-1F

Winch detail (accessory)



External hinge detail



**Ordering Information: See page 552**

Note: Poles are available only in U.S.

**INSTALLATION NOTES:**

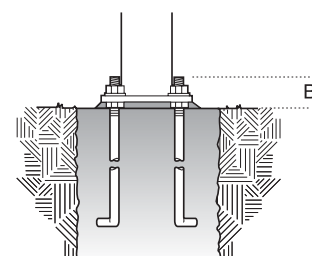
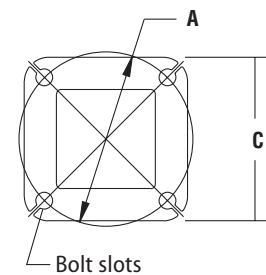
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

**NOTES:**

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS).
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°.
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are nominal. Actual bolt lengths may vary.
- Pole lengths cannot be modified.
- Galvanized Anchor Bolts available. Consult factory.
- Consult factory if product must be "Buy America."
- Hinge point is located approximately two-thirds of the way up the pole.



Round Tapered Steel

# SPRTS

Features

**Shaft** – The cross section shall be round or 16-sided with a 4" bend radius. Each pole is a constant tapered hollow steel section and shall be up to 55 feet in length with a minimum 1-1/2 times diameter slip joint as standard. The pole shaft sections shall be high-strength low-alloy steel conforming to ASTM A572 Grade 65 or ASTM A595 Grade A. The plate shall be single thickness – no laminations.

**Anchor Base** – Fabricated from hot-rolled carbon steel plate that conforms to ASTM A36 or ASTM A572 Grade 42.

**Hand hole** – An oval, reinforced hand-hole rim having a nominal dimension of 4"x6.5". Steel cover with attachment screws included. Hand hole is located 18" above base.

**Grounding** – Nut holder located immediately inside hand-hole rim is tapped for 1/2" – 13 UNC ground bolt and nut (provided by others).

**Anchor Bolts** – Fabricated from commercial-quality hot-rolled carbon steel with minimum-yield strength of 55,000 PSI. Bolts have an "L" bend on one end.

**Hardware** – Fasteners are high-strength galvanized zinc-plated or stainless steel.

**Top Cap** – Top cap provided with all drill-mount poles.

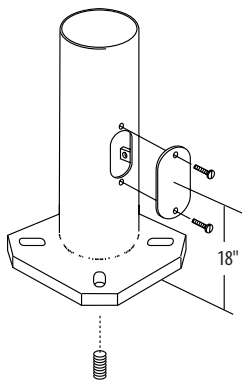
**Finish** – Must specify finish.

Ordering Information: See page 552

NOTE: Poles are available only in U.S.

Technical Information

Catalog number	Nom. mount. ht. (ft.)	Top section		Bottom section		EPA (ft <sup>2</sup> ) with 1.3 gust								# of anchor bolts
		Base dia. (in.)	Wall thick. (in.)	Base dia. (in.)	Wall thick. (in.)	80 mph.	Max. wt.	90 mph.	Max. wt.	100 mph.	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	
SPRTS 40 HT01	40	—	—	9	0.1193	17.2	430	13.5	338	10.8	270	12.5	1 x 36 x 4	4
SPRTS 40 HT02	40	—	—	9	0.1793	26.1	654	20.6	517	16.7	419	12.5	1.25 x 42 x 6	4
SPRTS 40 HT03	40	—	—	10	0.1793	38.6	965	30.6	765	24.6	615	13.5	1.25 x 42 x 6	4
SPRTS 50 HT01	50	—	—	10	0.1193	13.2	330	10.6	265	8.3	208	13.5	1 x 36 x 4	4
SPRTS 50 HT02	50	—	—	10	0.1793	20.5	512	16.5	412	13.6	340	13.5	1.25 x 42 x 6	4
SPRTS 50 HT03	50	—	—	11	0.1793	29.9	748	23.5	588	18.6	465	15	1.25 x 42 x 6	4
SPRTS 50 HT04	50	—	—	13	0.1793	50.4	1,260	39.7	992	31.4	785	17	1.50 x 54 x 6	4
SPRTS 50 HT05	50	—	—	13	0.2391	69.2	1,730	55.0	1,375	44.2	1,105	17.5	1.75 x 84 x 6	4
SPRTS 60 HT01	60	5	0.1196	11.5	0.1793	20.0	600	16.0	480	13.0	390	16	1.25 x 42 x 6	4
SPRTS 60 HT02	60	6.5	0.1196	13	0.1793	36.0	1,080	29.0	870	22.0	660	17	1.25 x 42 x 6	6
SPRTS 60 HT03	60	6.6	0.1793	13	0.2391	49.0	1,470	40.0	1,200	32.0	960	17	1.50 x 54 x 6	6
SPRTS 60 HT04	60	12	0.1793	15.87	0.1875	78.0	2,340	62.0	1,860	50.0	1,500	21	1.50 x 54 x 6	6
SPRTS 70 HT01	70	6.6	0.1793	13	0.1793	20.6	515	16.7	417	13.7	342	17	1.50 x 54 x 6	4
SPRTS 70 HT02	70	6.6	0.1793	13	0.2391	23.8	595	19.3	482	15.9	397	17.5	1.75 x 84 x 6	4
SPRTS 70 HT03	70	12	0.1793	14.57	0.1875	39.0	1,170	30.0	900	23.0	690	19	1.25 x 42 x 6	6
SPRTS 70 HT04	70	12	0.1793	15.87	0.1875	52.0	1,560	41.0	1,230	33.0	990	21	1.50 x 54 x 6	6
SPRTS 70 HT05	70	12	0.1793	16.82	0.1875	65.0	1,950	53.0	1,590	42.0	1,260	22.75	1.50 x 54 x 6	6
SPRTS 80 HT01	80	12	0.1793	15.87	0.1875	37.0	1,110	29.0	870	23.0	690	21	1.50 x 54 x 6	6
SPRTS 80 HT02	80	12	0.1793	16.82	0.1875	45.0	1,350	36.0	1,080	28.0	840	22.75	1.50 x 54 x 6	6
SPRTS 80 HT03	80	13	0.1875	17.53	0.2092	58.0	1,740	46.0	1,380	35.0	1,050	23	1.50 x 54 x 6	6
SPRTS 80 HT04	80	12	0.1793	18.7	0.1875	70.0	2,100	56.0	1,680	44.0	1,320	23	1.50 x 54 x 6	8

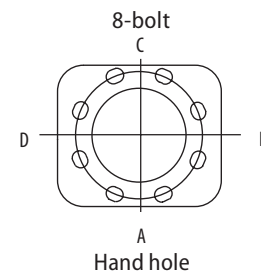
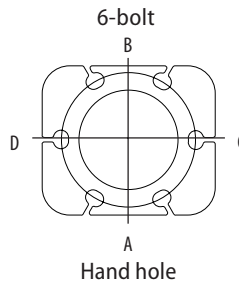
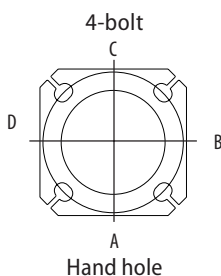


NOTES:

- Bolt lengths described are normal. Actual bolt lengths may vary.
- Galvanized anchor bolts available. Consult factory.
- Consult factory if product must meet "Buy America" specifications.
- Direct burial option available, consult factory.

INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.  
Do not erect poles without having fixtures installed.  
If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.



Angle Iron Crossarms for Steel Poles

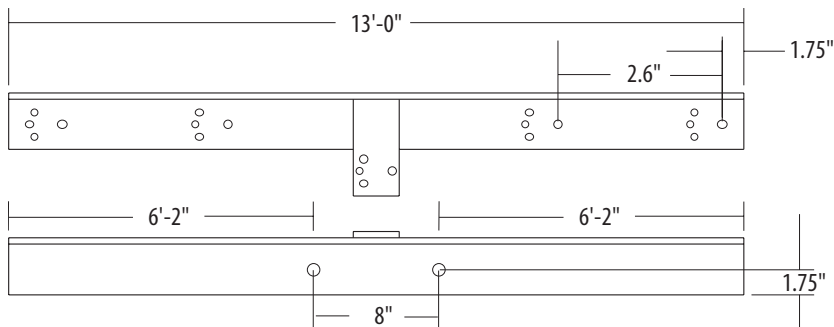
Catalog number	Arm EPA (sq. ft.)	Weight (lbs.)
ACR2	1.98	34.0
ACR3	3.12	54.0
ACR4	4.53	78.0
ACR5	5.95	103.0
ACR6	7.37	127.0

NOTE: Angle iron crossarms can be used with other poles if ordered with the pole.

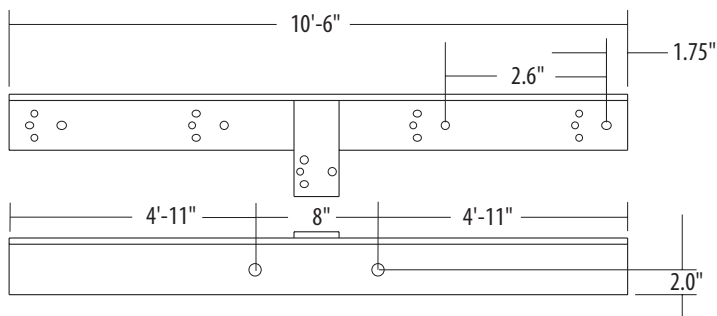
Angle Iron Crossarms for Steel Poles

Projected area is for the crossarm only. The crossarm projected area is added to the luminaire projected area to get a total effective projected area (EPA).

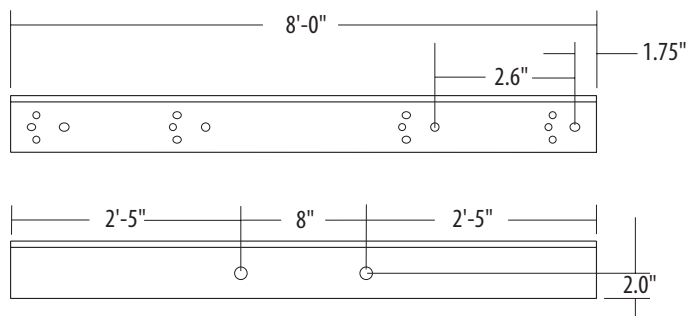
ACR6, 6-Fixture Angle Arm



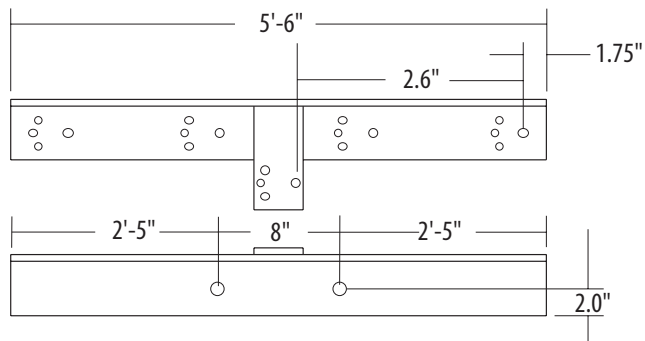
ACR5, 5-Fixture Angle Arm



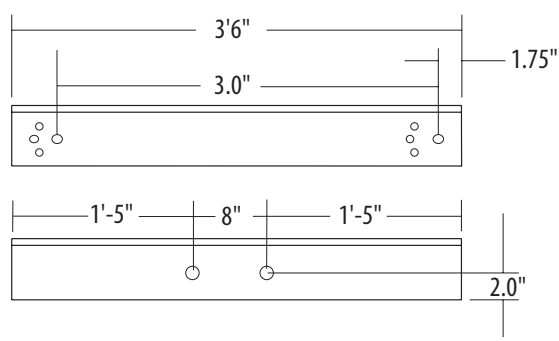
ACR4, 4-Fixture Angle Arm



ACR3, 3-Fixture Angle Arm



ACR2, 2-Fixture Angle Arm



# Crossarms for SPRTS Sportlighting Poles

## Tubular Crossarms for Steel Poles

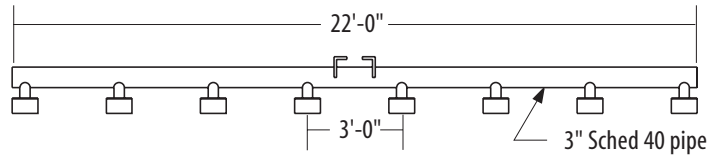
Catalog number	Arm EPA (sq. ft.)	Weight (lbs.)
CR2	1.28	44.0
CR3	2.45	65.0
CR4	3.21	98.0
CR5	4.17	116.0
CR6	5.13	150.0
CR7	6.10	176.0
CR8	7.06	271.0

NOTE: Tubular crossarms can be used with other poles if ordered with the pole.

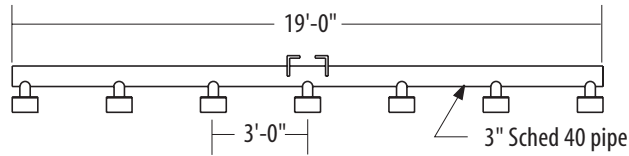
## Tubular Crossarms for Steel Poles

Projected area is for the crossarm only. The crossarm projected area is added to the luminaire projected area to get a total effective projected area (EPA).

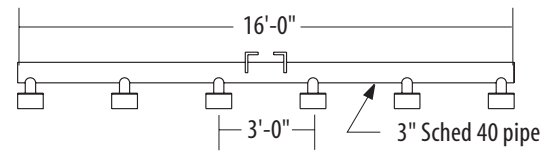
CR8, 8-Fixture Crossarm



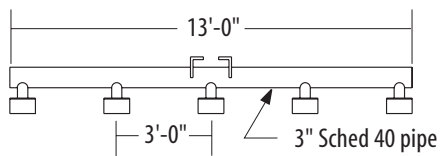
CR7, 7-Fixture Crossarm



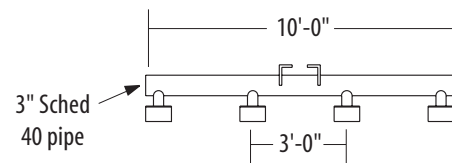
CR6, 6-Fixture Crossarm



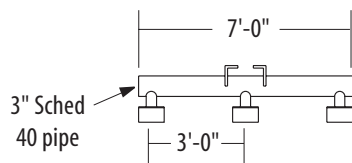
CR5, 5-Fixture Crossarm



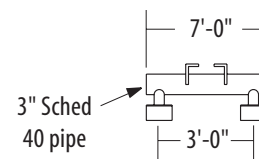
CR4, 4-Fixture Crossarm



CR3, 3-Fixture Crossarm



CR2, 2-Fixture Crossarm





# SSA

### Features

**Shaft** – Square, non-tapered shaft made from extruded 6063-T6 or 6061-T6 aluminum alloy. Shaft width is 4, 5 or 6 inches. Wall thickness is .125, .188 or .250, depending on mounting height and loading requirements.

**Anchor Base** – Cast from 356-T6 aluminum alloy. Anchor bolt holes are recessed and covered by aluminum caps.

**Anchor Bolts** – Top 12" galvanized per ASTM A-153. Made of 3/4" or 1" diameter steel rod having minimum-yield strength of 55,000 psi.

**Grounding** – Ground lug located immediately inside hand hole is tapped for 3/8"-16 UNC grounding bolt (by others).

**Hand hole** – Rectangular reinforced hand hole having nominal dimensions 2" x 4" (4" sq.) or 2-1/2" x 4" (5" or 6" sq.). Hand-hole cover plate made from aluminum alloy with attachment hardware provided.

**Hardware** – All screws, nuts and bolts are made of stainless steel.

**Top Cap** – Top is provided, for drill-mount poles.

**Finish** – Must specify finish. Brushed aluminum, polyester paint, and anodized finishes available.

**Bolt Covers** – Nut covers included with each anchor base.

### Technical Information

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thck. (in.)	80 mph	90 mph	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
SSA 8 4C	8	4.0 x 8.0	0.125	16.5	12.6	9.9	300	8-1/2-9-5/8	3/4 x 18 x 3	32
SSA 10 4C	10	4.0 x 10.0	0.125	11.5	8.6	6.5	230	8-1/2-9-5/8	3/4 x 18 x 3	37
SSA 12 4C	12	4.0 x 12.0	0.125	12.4	9.2	6.9	160	8-1/2-9-5/8	3/4 x 18 x 3	40
SSA 14 4C	14	4.0 x 14.0	0.125	9.3	6.7	4.8	120	8-1/2-9-5/8	3/4 x 18 x 3	50
SSA 15 4C	15	4.0 x 15.0	0.125	8.0	5.6	3.9	100	8-1/2-9-5/8	3/4 x 18 x 3	52
SSA 16 4C	16	4.0 x 16.0	0.125	6.9	4.7	3.1	90	8-1/2-9-5/8	3/4 x 18 x 3	54
SSA 16 4G	16	4.0 x 16.0	0.188	11.8	8.5	6.2	130	8-1/2-9-5/8	3/4 x 30 x 3	74
SSA 16 5G	16	5.0 x 16.0	0.188	15.0	11.1	7.5	280	10-1/2-11-1/2	3/4 x 30 x 3	83
SSA 18 4C	18	4.0 x 18.0	0.125	4.9	3.0	1.7	70	8-1/2-9-5/8	3/4 x 18 x 3	57
SSA 18 4G	18	4.0 x 18.0	0.188	9.2	6.4	4.4	100	8-1/2-9-5/8	3/4 x 30 x 3	80
SSA 18 5G	18	5.0 x 18.0	0.188	16.8	12.2	8.9	230	10-1/2-11-1/2	3/4 x 30 x 3	91
SSA 20 4C	20	4.0 x 20.0	0.125	3.3	1.7	0.5	40	8-1/2-9-5/8	3/4 x 18 x 3	62
SSA 20 4G	20	4.0 x 20.0	0.188	7.0	4.6	2.9	80	8-1/2-9-5/8	3/4 x 30 x 3	85
SSA 20 5G	20	5.0 x 20.0	0.188	13.6	9.5	6.6	180	10-1/2-11-1/2	3/4 x 30 x 3	107
SSA 20 6G	20	6.0 x 20.0	0.188	22.0	15.9	11.6	230	12-13	1 x 36 x 4	155
SSA 20 6J	20	6.0 x 20.0	0.250	30.4	22.6	17.0	300	12-13	1 x 36 x 4	202
SSA 25 5G	25	5.0 x 25.0	0.188	7.2	4.2	2.0	110	10-1/2-11-1/2	3/4 x 30 x 3	130
SSA 25 6G	25	6.0 x 25.0	0.188	13.2	8.6	5.4	180	12-13	1 x 36 x 4	180
SSA 25 6J	25	6.0 x 25.0	0.250	19.7	13.8	9.5	250	12-13	1 x 36 x 4	224
SSA 30 6G	30	6.0 x 30.0	0.188	7.0	3.4	0.8	130	12-13	1 x 36 x 4	210
SSA 30 6J	30	6.0 x 30.0	0.250	12.2	7.5	4.1	170	12-13	1 x 36 x 4	258
SSA 32 6J	32	6.0 x 32.0	0.250	9.7	5.4	2.3	160	12-13	1 x 36 x 4	272
SSA 35 6J	35	6.0 x 35.0	0.250	6.4	2.6	—	200	12-13	1 x 36 x 4	294
SSA 35 7J	35	6.0 x 35.0	0.250	7.6	3.1	—	150	14-1/8-15-1/8	1 x 36 x 4	290

### Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
4"C	8-1/2-9-5/8"	3-1/8"	9-15/16"	AB18-0	PJ50045
4"G	8-1/2-9-5/8"	3-1/8"	9-15/16"	AB30-0	PJ50045
5"	10-1/2-11-1/2"	3-1/4"	11-9/16"	AB30-0	PJ50046
6"	12"-13"	4"	12-1/4"	AB36-0	PJ50044
7"	14-1/8-15-1/8"	4-1/4"	15-1/8"	AB36-0	PJ50130

**NOTES:**

- Mounting arrangement: (PT) Open top; (TZ0) 2-3/8" OD (2" NPS)
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°.
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are nominal, actual bolt lengths may vary.
- Direct burial option available. Consult factory.
- Galvanized anchor bolts available. Consult factory.
- Consult factory if product must meet "Buy American" specifications.

### Ordering Information: See page 552

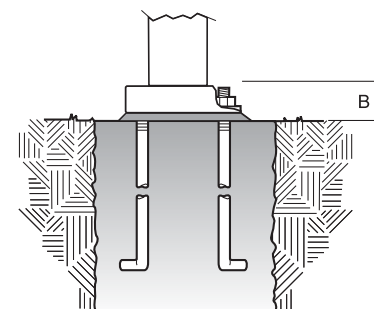
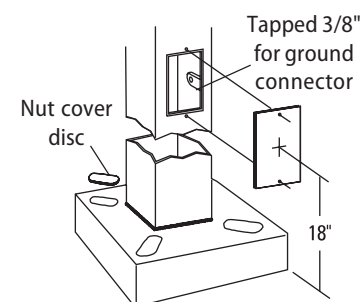
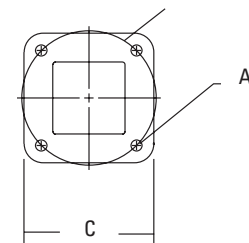
NOTE: Poles are available only in U.S.

**INSTALLATION NOTES:**

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.



## Square Straight Cruciform Aluminum

# SSCA

**NEW**

### Features

**Shaft** – Square, cruciform, non-tapered shaft made from extruded seamless 6000 series alloy aluminum tubing. Shaft width is 4 or 6 inches. Wall thickness is .188".

**Anchor Base** – Cast from A356 alloy aluminum. Anchor bolt holes are recessed and are covered by tamper resistant aluminum nut cover disks.

**Grounding** – Ground lug located immediately inside hand hole is tapped for 3/8"-16 UNC grounding bolt (by others).

**Hand hole** – Rectangular reinforced hand hole having nominal dimensions of 2" x 4". Hand-hole cover plate made from aluminum alloy with attachment hardware provided.

**Top Cap** – Top cap is provided for drill mount poles.

**Finish** – Must specify finish. Brushed aluminum, polyester powder paint, and anodized finishes available.

**Bolt Covers** – Nut covers included with each anchor base.

### Ordering Information: See page 552

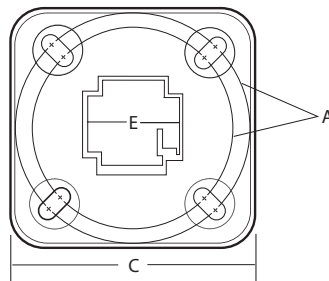
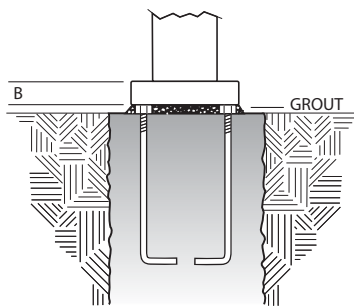
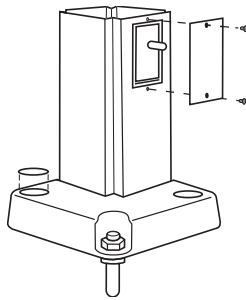
NOTE: Poles are available only in U.S.

#### INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.



### Technical Information

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (Ft.)	Pole shaft (size) (in. x in. x ft.)	Wall thick. (in.)	80 mph	90 mph	100 mph	Max. wt. (in. x in. x in.)	Approx. bolt circle (in.)	Bolt size	ship wt. (lbs.)
SSCA 8 4G	8'	4.0 x 8.0	0.188	30.2	23.5	18.6	350	8-1/2 - 9-5/8	3/4 x 18 x 4	-
SSCA 10 4G	10	4.0 x 10.0	0.188	23.5	18	14.1	260	8-1/2 - 9-5/8	3/4 x 18 x 4	-
SSCA 12 4G	12	4.0 x 12.0	0.188	18.4	13.9	10.7	260	8-1/2 - 9-5/8	3/4 x 18 x 4	-
SSCA 15 4G	15	4.0 x 15.0	0.188	10.6	7.7	5.6	200	8-1/2 - 9-5/8	3/4 x 18 x 4	-
SSCA 18 4G	18	4.0 x 18.0	0.188	7.2	4.9	3.2	200	8-1/2 - 9-5/8	3/4 x 18 x 4	-
SSCA 18 6G	18	6.0 x 18.0	0.188	21.7	15.9	11.7	260	12.0 - 13.0	1 x 36 x 4	-
SSCA 20 4G	20	4.0 x 20.0	0.188	5.8	3.6	2	100	8-1/2 - 9-5/8	3/4 x 18 x 4	-
SSCA 20 6G	20	6.0 x 20.0	0.188	18.3	13	9.2	150	12.0 - 13.0	1 x 36 x 4	-
SSCA 25 6G	25	6.0 x 25.0	0.188	11	6.8	3.7	150	12.0 - 13.0	1 x 36 x 4	-
SSCA 30 6G	30	6.0 x 30.0	0.188	4.5	1.4	-	260	12.0 - 13.0	1 x 36 x 4	-

#### Pole Data

Shaft base size	Bolt circle A	Bolt Projection B	Base Square C	Anchor bolt description	Template number
4"	8-1/2 - 9-5/8	3-1/8"	9-15/16"	AB18-0	PJ50131
6"	12.0 - 13.0	4"	12-3/4"	AB36-0	PJ50132

#### NOTES:

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are nominal, actual bolt lengths may vary.
- Galvanized anchor bolts available. Consult factory.
- Consult factory if product must meet "Buy America" specifications.

# RSA

### Features

**Shaft** – One-piece extruded 6063-T6 aluminum alloy with T6 temper. Circumferential satin-brushed finish. 4-1/2" round straight tube is uniform in cross-section down length of shaft.

**Anchor Base** – Cast from A356 aluminum alloy and heat treated to T6 temper. Base slipfits shaft, and they are joined together by continuous circumferential welds at both top and bottom of

anchor base to provide maximum strength at area of critical stress.

**Anchor Bolts** – Top 12" is galvanized per ASTM A-153. Made of carbon steel bar with a minimum-yield strength of 55,000 psi.

**Grounding** – Ground lug located immediately inside hand hole is tapped for 3/8"-16 UNC ground bolt (not supplied).

**Hand hole** – Reinforced 3"x5" hand hole is located

18" above base, (4" poles have a 2" x 4" cover) Cover and attachment hardware furnished.

**Hardware** – Stainless steel.

**Top Cap** – Top cap is provided for drill-mount poles.

**Finish** – Must specify a finish. Brushed aluminum, polyester powder paint and anodized finishes available.

**Bolt Covers** – A356 nut covers included with anchor base unless otherwise specified.

### Technical Information

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	80 mph	90 mph	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
<i>4 Bolt Base</i>										
<b>RSA 8 4C</b>	8	4.0 x 8.0	0.125	11.2	8.6	6.8	125	6-1/2-8-1/4	3/4 x 18 x 3	22
<b>RSA 10 4C</b>	10	4.0 x 10.0	0.125	8.2	6.1	4.7	100	6-1/2-8-1/4	3/4 x 18 x 3	26
<b>RSA 12 4C</b>	12	4.0 x 12.0	0.125	6.0	4.3	3.2	110	6-1/2-8-1/4	3/4 x 18 x 3	30
<b>RSA 12 4-5C</b>	12	4.5 x 12.0	0.125	8.1	6.0	4.8	80	7-1/8-8-3/8	3/4 x 18 x 3	38
<b>RSA 14 4C</b>	14	4.0 x 14.0	0.125	4.1	2.8	1.9	75	6-1/2-8-1/4	3/4 x 18 x 3	35
<b>RSA 14 4-5C</b>	14	4.5 x 14.0	0.125	5.8	4.2	3.3	60	7-1/8-8-3/8	3/4 x 18 x 3	42
<b>RSA 14 5C</b>	14	5.0 x 14.0	0.125	7.8	6.0	4.7	100	7-1/2-9-1/2	3/4 x 18 x 3	39
<b>RSA 16 4C</b>	16	4.0 x 16.0	0.125	2.8	1.6	1.0	150	6-1/2-8-1/2	3/4 x 18 x 3	38
<b>RSA 16 4-5C</b>	16	4.5 x 16.0	0.125	4.2	2.8	2.1	50	7-1/8-8-3/8	3/4 x 18 x 3	46
<b>RSA 16 4-5G</b>	16	4.5 x 16.0	0.188	7.5	5.5	4.3	155	7-1/8-8-3/8	3/4 x 18 x 3	62
<b>RSA 16 5C</b>	16	5.0 x 16.0	0.125	5.9	4.4	3.4	175	7-1/2-9-1/2	3/4 x 18 x 3	46
<b>RSA 16 5E</b>	16	5.0 x 16.0	0.156	8.0	6.1	4.8	190	7-1/2-9-1/2	3/4 x 18 x 3	53
<b>RSA 18 4-5G</b>	18	4.5 x 18.0	0.188	5.7	4.0	3.1	123	7-1/8-8-3/8	3/4 x 18 x 3	68
<b>RSA 18 5C</b>	18	5.0 x 18.0	0.125	4.3	3.1	2.4	150	7-1/2-9-1/2	3/4 x 18 x 3	48
<b>RSA 18 5E</b>	18	5.0 x 18.0	0.156	6.1	4.6	3.5	175	7-1/2-9-1/2	3/4 x 18 x 3	58
<b>RSA 18 5G</b>	18	5.0 x 18.0	0.188	8.0	6.8	4.7	225	7-1/2-9-1/2	3/4 x 18 x 3	68
<b>RSA 20 4-5G</b>	20	4.5 x 20.0	0.188	4.3	2.9	2.1	95	7-1/8-8-3/8	3/4 x 18 x 3	74
<b>RSA 20 5C</b>	20	5.0 x 20.0	0.125	3.0	2.1	1.5	150	7-1/2-9-1/2	3/4 x 18 x 3	54
<b>RSA 20 5E</b>	20	5.0 x 20.0	0.156	4.7	3.4	2.6	150	7-1/2-9-1/2	3/4 x 18 x 3	68
<b>RSA 20 5G</b>	20	5.0 x 20.0	0.188	6.4	4.8	3.6	150	7-1/2-9-1/2	3/4 x 18 x 3	82
<b>RSA 20 6E</b>	20	6.0 x 20.0	0.156	9.3	7.1	5.5	175	8-3/4-10-1/4	3/4 x 30 x 3	95
<b>RSA 25 4-5G</b>	25	4.5 x 25.0	0.188	1.3	—	—	100	7-1/8-8-3/8	3/4 x 18 x 3	89
<b>RSA 25 6E</b>	25	6.0 x 25.0	0.156	5.2	3.8	2.8	150	8-3/4-10-1/4	3/4 x 30 x 3	108
<b>RSA 25 6G</b>	25	6.0 x 25.0	0.188	7.1	5.3	4.0	150	8-3/4-10-1/4	3/4 x 30 x 3	128
<b>RSA 30 6G</b>	30	6.0 x 30.0	0.188	3.5	2.4	1.6	200	8-3/4-10-1/4	3/4 x 30 x 3	146
<i>3 Bolt Base</i>										
<b>3RSA 8 3C</b>	8	3.0 x 8.0	0.125	5.8	4.3	3.3	75	5-1/2-7	3/4 x 18 x 3	22
<b>3RSA 10 3C</b>	10	3.0 x 10.0	0.125	4.0	2.9	2.1	75	5-1/2-7	3/4 x 18 x 3	26
<b>3RSA 10 4C</b>	10	4.0 x 10.0	0.125	8.2	6.1	4.7	75	6-5/16-7-3/8	3/4 x 18 x 3	26
<b>3RSA 12 3C</b>	12	3.0 x 12.0	0.125	2.7	1.8	1.2	75	5-1/2-7	3/4 x 18 x 3	30
<b>3RSA 12 4C</b>	12	4.0 x 12.0	0.125	5.8	4.2	3.1	150	6-5/16-7-3/8	3/4 x 18 x 3	30
<b>3RSA 12 5C</b>	12	5.0 x 12.0	0.125	10.3	8	6.3	150	7-3/8-8-1/2	3/4 x 18 x 3	36
<b>3RSA 14 3C</b>	14	14.0 x 3.0	0.125	1.7	1.0	0	75	5-1/2-7	3/4 x 18 x 3	35
<b>3RSA 14 4C</b>	14	14.0 x 4.0	0.125	4.1	2.8	1.9	150	6-5/16-7-3/8	3/4 x 18 x 3	35
<b>3RSA 14 5C</b>	14	14.0 x 5.0	0.125	7.9	6.0	4.7	150	7-3/8-8-1/2	3/4 x 18 x 3	39
<b>3RSA 16 4C</b>	16	4.0 x 16.0	0.125	2.8	1.6	1.0	150	6-5/16-7-3/8	3/4 x 18 x 3	38
<b>3RSA 16 5E</b>	16	5.0 x 16.0	0.156	8.0	6.1	4.8	150	7-3/8-8-1/2	3/4 x 18 x 3	53
<b>3RSA 18 5C</b>	18	5.0 x 18.0	0.125	4.3	3.1	2.4	150	7-3/8-8-1/2	3/4 x 18 x 3	48
<b>3RSA 20 5C</b>	20	5.0 x 20.0	0.125	2.9	2.0	1.4	150	7-3/8-8-1/2	3/4 x 18 x 3	54
<b>3RSA 20 5E</b>	20	5.0 x 20.0	0.156	4.6	3.3	2.5	150	7-3/8-8-1/2	3/4 x 18 x 3	68

### Pole Data

	Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
4 bolt base	4"	6-1/2"-8-1/4"	3-1/4"	8-3/4"	AB18-0	PJ50057
	4-1/2"	7"-8-1/2"	3-1/4"	8-1/2"	AB18-0	PJ50040
	5"	7-1/2"-9-1/2"	3-1/4"	9-1/4"	AB18-0	PJ50058
	6"	8-3/4"-10-1/4"	3-1/2"	10-1/4"	AB30-0	PJ50059
3 bolt base	3"	5 1/2"-7"	3-1/4"	7-1/2"	AB18-0	PJ50125
	4"	6-5/16"-7-3/8"	3-1/4"	8-7/8"	AB18-0	PJ50126
	5"	7-3/8"-8-1/2"	3-1/4"	10-1/4"	AB18-0	PJ50127

### Ordering Information: See page 552

NOTE: Poles are available only in U.S.

### INSTALLATION NOTES:

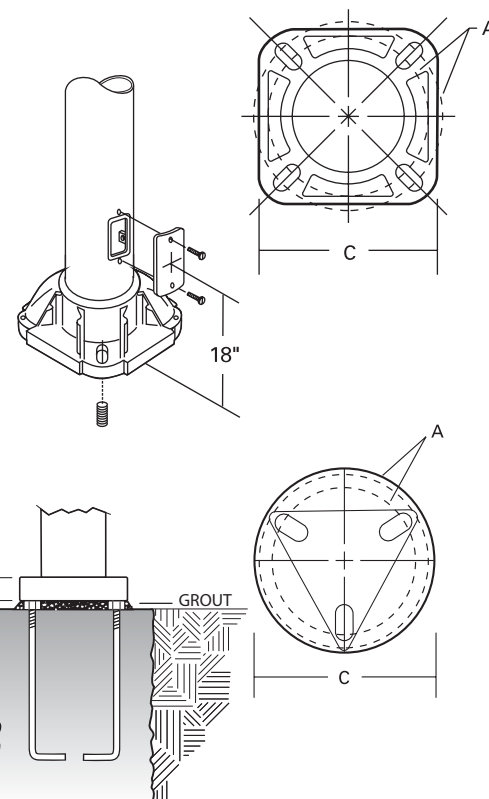
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

### NOTES:

- Mounting Arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are nominal, actual bolt lengths may vary.
- Direct burial option available. Consult factory.
- Galvanized anchor bolts available. Consult factory.
- Consult factory if product must meet "Buy America" specifications.



# Round Tapered Aluminum

## RTA

### Features

**Shaft** – The shaft is spun tapered from seamless 6063 alloy aluminum tubing and is heat-treated to produce a T6 temper. The shaft is cone tapered to the butt diameter.

**Anchor Base** – Cast from A356 alloy aluminum, the anchor base is heat-treated to a T6 condition. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom.

**Anchor Bolts** – Top 12" galvanized per ASTM A-153. Made of steel rod having a minimum yield

strength of 55,000 PSI.

**Grounding** – A ground lug located immediately inside the hand hole is tapped round bolt (by others).

**Hand hole** – A nominal 3"x5" or 4"x6" reinforced flushed covered hand hole is centered 18" above the base.

**Hardware** – All screws, nuts and bolts are made of stainless steel.

**Top Cap** – Top cap is provided for drill-mount poles.

**Finish** – Must specify a finish. Brushed aluminum, polyester powder paint and anodized finishes available.

**Bolt Covers** – A356 nut covers shall be included with each anchor base unless otherwise specified.

### Ordering Information: See page 552

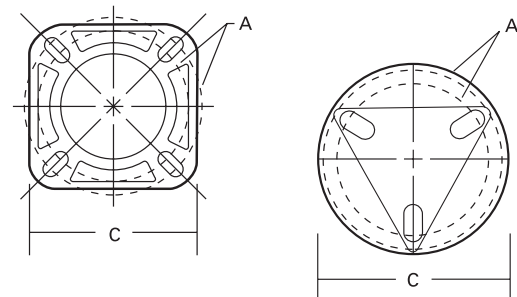
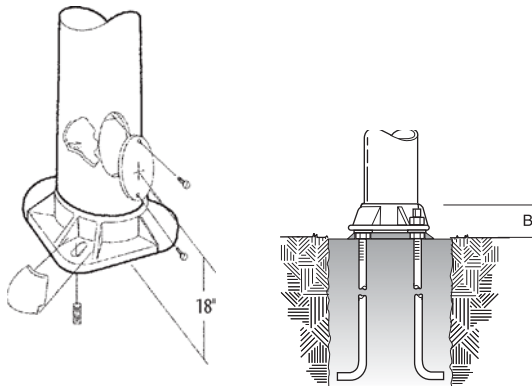
NOTE: Poles are available only in U.S.

#### INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. Do not erect poles without having fixtures installed. If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

#### NOTES:

- Mounting Arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are nominal, actual bolt lengths may vary.
- Direct burial option available. Consult factory.
- Galvanized anchor bolts available. Consult factory.
- Consult factory if product must meet "Buy America" specifications.



### Technical Information

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thickness (in.)	80 mph	90 mph	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx ship wt. (lbs.)
<b>4 Bolt Base</b>										
RTA 20 5C	20	5 x 3 x 19'8"	0.125	3.9	2.5	1.6	100	7-1/2-9-1/2	3/4 x 18 x 3	62
RTA 20 5G	20	5 x 3 x 19'8"	0.188	7.4	5.2	3.8	100	7-1/2-9-1/2	3/4 x 18 x 3	72
RTA 20 6G	20	6 x 4 x 19'8"	0.188	12.2	9.2	7.2	214	9-10	3/4 x 30 x 3	107
RTA 20 7E	20	7 x 4 x 19'8"	0.156	15.0	11.4	9.0	256	9-7/8-11-1/4	1 x 36 x 4	103
RTA 25 6E	25	6 x 4 x 24' 8"	0.156	5.3	3.6	2.6	114	9-10	3/4 x 30 x 3	106
RTA 25 7E	25	7 x 4 x 24' 8"	0.156	9.5	7.0	5.4	162	9-7/8-11-1/4	1 x 36 x 4	120
RTA 25 8E	25	8 x 4.5 x 24' 8"	0.156	14.2	10.9	8.5	220	11-12	1 x 36 x 4	130
RTA 25 8G	25	8 x 4.5 x 24' 8"	0.188	18.0	13.8	10.9	261	11-12	1 x 36 x 4	153
RTA 30 7E	30	7 x 4 x 29'8"	0.156	5.5	3.8	2.7	111	9-7/8-11-1/4	1 x 36 x 4	135
RTA 30 8E	30	8 x 4.5 x 29'8"	0.156	9.4	7.0	5.3	151	11-12	1 x 36 x 4	150
RTA 30 8G	30	8 x 4.5 x 29'8"	0.188	12.4	9.4	7.3	179	11-12	1 x 36 x 4	175
RTA 30 10G	30	10 x 6 x 29'8"	0.188	23.8	18.3	14.3	377	14-1/4-16-1/4	1 x 40 x 4	235
RTA 35 8E	35	8 x 4.5 x 34'8"	0.156	5.8	4.1	2.9	119	11-12	1 x 36 x 4	185
RTA 35 8G	35	8 x 4.5 x 34'8"	0.188	8.3	6.0	4.5	141	11-12	1 x 36 x 4	220
RTA 35 8J	35	8 x 4.5 x 34'8"	0.250	12.9	9.7	7.5	183	11-12	1 x 36 x 4	251
RTA 35 10G	35	10 x 6 x 34'8"	0.188	17.9	13.6	10.4	295	14-1/4-16-1/4	1 x 40 x 4	268
RTA 39 8G	39	8 x 4.5 x 38'8"	0.188	5.6	3.9	2.7	122	11-12	1 x 36 x 4	250
RTA 39 8J	39	8 x 4.5 x 38'8"	0.250	9.7	7.1	5.4	158	11-12	1 x 36 x 4	280
RTA 39 10G	39	10 x 6 x 38'8"	0.188	14.2	10.5	7.8	253	14-1/4-16-1/4	1 x 40 x 4	295
RTA 39 10J	39	10 x 6 x 38'8"	0.250	20.4	15.5	11.9	300	14-1/2-16	1-1/4 x 48 x 5	373
<b>3 Bolt Base</b>										
3RTA 8 4C	8	4.0 x 8.0	0.125	12.1	9.3	7.3	75	6-1/2-7-1/4	3/4 x 18 x 3	n/a
3RTA 10 4C	10	4.0 x 10.0	0.125	8.8	6.7	5.2	75	6-1/2-7-1/4	3/4 x 18 x 3	n/a
3RTA 12 4C	12	4.0 x 12.0	0.125	6.6	4.8	3.6	75	6-1/2-7-1/4	3/4 x 18 x 3	n/a
3RTA 14 4C	14	4.0 x 14.0	0.125	4.9	3.4	2.4	75	6-1/2-7-1/4	3/4 x 18 x 3	n/a
3RTA 16 4C	16	4.0 x 16.0	0.125	3.5	2.3	1.5	75	6-1/2-7-1/4	3/4 x 18 x 3	n/a
3RTA 16 5C	16	5.0 x 16.0	0.125	6.9	5.0	3.8	75	7-1/2-8-1/2	3/4 x 18 x 3	n/a
3RTA 18 5C	18	5.0 x 18.0	0.125	5.0	3.5	2.5	150	7-1/2-8-1/2	3/4 x 18 x 3	n/a
3RTA 18 5E	18	5.0 x 18.0	0.156	7.0	5.0	3.7	150	7-1/2-8-1/2	3/4 x 18 x 3	n/a
3RTA 20 5C	20	5.0 x 20.0	0.125	3.8	2.5	1.6	150	7-1/2-8-1/2	3/4 x 18 x 3	62
3RTA 20 5E	20	5.0 x 20.0	0.156	5.5	3.8	2.6	150	7-1/2-8-1/2	3/4 x 18 x 3	70

#### Pole Data

	Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
4 Bolt Base	5"	7-1/2"-9-1/2"	3-1/4"	9-1/4"	AB18-0	PJ50032
	6"	9"-10"	3-1/2"	10"	AB30-0	PJ50033
	7"	9-7/8"-11-1/4"	4-1/8"	10-1/2"	AB36-0	PJ50034
	8"	11-12"	4-1/4"	11-1/2"	AB36-0	PJ50035
	10"G	14-1/4"-16-1/4"	4-1/2"	14-1/2"	AB40-0	PJ50036
3 Bolt Base	10"J	14-1/2"-16"	5"	14-1/2"	AB48-0	PJ50063
	4"	6-1/2"-7-1/4"	3-1/4"	8-7/8"	AB18-0	PJ50128
	5"	7-1/2"-8-1/2"	3-1/4"	10-1/4"	AB18-0	PJ50129

## Round Tapered Aluminum with Upswept Mast Arms

# RTAU

### Features

**Shaft** – The shaft is spun tapered from seamless 6063 alloy aluminum tubing and is heat-treated to produce a T6 temper. The shaft is cone tapered to the butt diameter.

**Arm** – Body of the mounting arm is tapered aluminum alloy 6063-T6 tube with 2-3/8" OD (2" NPS) pipe size at luminaire end. The pole end of the arm is welded to an aluminum alloy 6063-T6 mounting plate.

**Mounting** – The mounting plate is designed to be bolted to the shaft using four 1/2" stainless

steel bolts, nuts and washers. A grommet is provided for the 1-1/4" diameter wiring hole between the pole shaft and the bracket arm.

**Anchor Base** – Cast from A356 alloy aluminum, the anchor base is heat-treated to a T6 condition. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom.

**Anchor Bolts** – Top 12" galvanized per ASTM A-153. Made of steel rod having a minimum yield strength of 55,000 PSI.

**Grounding** – A ground lug located immediately inside the hand hole is tapped for 3/8"-16 UNC

grounding bolt (by others).

**Hand hole** – A nominal 3"x5" or 4"x6" reinforced flushed covered hand hole is centered 18" above the base.

**Hardware** – All screws, nuts and bolts are made of stainless steel.

**Top Cap** – Top cap is provided.

**Finish** – Must specify a finish. Brushed aluminum, polyester powder paint and anodized finishes available.

**Bolt Covers** – A356 nut covers shall be included with each anchor base unless otherwise specified.

### Technical Information

Ordering Information: See page 552

NOTE: Poles are available only in U.S.

Catalog number		Nom. mount. (ft.)	Mtg. arm length (ft.)	Pole shaft size (in. x in.)	Wall thick. (in.)	(per arm) EPA ft <sup>2</sup> w/1.3 gust up to 100 mph		Max. wt. (lbs.)	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)	
Single arms	Double arms					Single arms	Double arms				Single arms	Double arms
RTAU 20 6E BMA US4	RTAU 20 6E BMA 2US4	20'	4'	4" x 6"	0.156"	2	1.5	80	9-10"	3/4 x 30 x 3	153	205
RTAU 20 6E BMA US6	RTAU 20 6E BMA 2US6	20'	6'	4" x 6"	0.156"	2	0.9	80	9-10"	3/4 x 30 x 3	153	205
RTAU 20 6E BMA US8	RTAU 20 6E BMA 2US8	20'	8'	4" x 6"	0.156"	1.7	n/a	80	9-10"	3/4 x 30 x 3	153	205
RTAU 25 7E BMA US4	RTAU 25 7E BMA 2US4	25'	4'	4" x 7"	0.156"	2	1.3	80	10-11"	1 x 36 x 4	170	220
RTAU 25 7E BMA US6	RTAU 25 7E BMA 2US6	25'	6'	4" x 7"	0.156"	2	0.8	80	10-11"	1 x 36 x 4	170	220
RTAU 25 7E BMA US8	RTAU 25 7E BMA 2US8	25'	8'	4" x 7"	0.156"	1.7	n/a	80	10-11"	1 x 36 x 4	170	220
RTAU 30 7E BMA US4	RTAU 30 7E BMA 2US4	30'	4'	4" x 7"	0.156"	1.5	1.3	80	10-11"	1 x 36 x 4	185	235
RTAU 30 7E BMA US6	RTAU 30 7E BMA 2US6	30'	6'	4" x 7"	0.156"	1.1	0.8	80	10-11"	1 x 36 x 4	185	235
RTAU 30 7E BMA US8	RTAU 30 7E BMA 2US8	30'	8'	4" x 7"	0.156"	n/a	0.9	80	10-11"	1 x 36 x 4	185	235
RTAU 35 8E BMA US4	N/A	35'	4'	4.5" x 8"	0.156"	1.7	n/a	80	11-12"	1 x 36 x 4	235	n/a
RTAU 35 8E BMA US6	N/A	35'	6'	4.5" x 8"	0.156"	1.3	n/a	80	11-12"	1 x 36 x 4	235	n/a
RTAU 35 8E BMA US8	N/A	35'	8'	4.5" x 8"	0.156"	n/a	n/a	80	11-12"	1 x 36 x 4	235	n/a
N/A	RTAU 35 8J BMA 2US4	35'	4'	4.5" x 8"	0.250"	n/a	2	80	11-12"	1 x 36 x 4	n/a	350
N/A	RTAU 35 8J BMA 2US6	35'	6'	4.5" x 8"	0.250"	n/a	2	80	11-12"	1 x 36 x 4	n/a	350
N/A	RTAU 35 8J BMA 2US8	35'	8'	4.5" x 8"	0.250"	n/a	1.1	80	11-12"	1 x 36 x 4	n/a	350
RTAU 40 8G BMA US4	N/A	40'	4'	4.5" x 8"	0.188"	1.6	n/a	80	11-12"	1 x 36 x 4	300	n/a
RTAU 40 8G BMA US6	N/A	40'	6'	4.5" x 8"	0.188"	1.1	n/a	80	11-12"	1 x 36 x 4	300	n/a
RTAU 40 8G BMA US8	N/A	40'	8'	4.5" x 8"	0.188"	n/a	n/a	80	11-12"	1 x 36 x 4	300	n/a
N/A	RTAU 40 8J BMA 2US4	40'	4'	4.5" x 8"	0.250"	n/a	1.4	80	11-12"	1 x 36 x 4	n/a	380
N/A	RTAU 40 8J BMA 2US6	40'	6'	4.5" x 8"	0.250"	n/a	0.8	80	11-12"	1 x 36 x 4	n/a	380
N/A	RTAU 40 8J BMA 2US8	40'	8'	4.5" x 8"	0.250"	n/a	n/a	80	11-12"	1 x 36 x 4	n/a	380

### INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

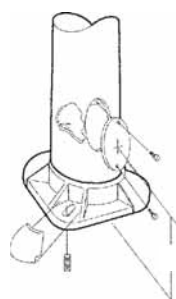
If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

### Pole Data

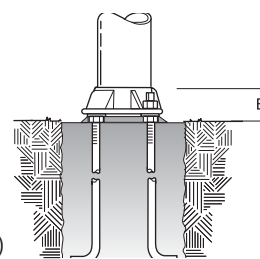
Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
6"	9"-10"	3-1/2"	10"	AB30-0	PJ50033
7"	10"-11"	4-1/8"	10-1/2"	AB36-0	PJ50034
8"	11-12"	4-1/4"	11-1/2"	AB36-0	PJ50035

### NOTES:

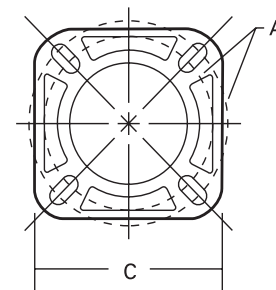
- Mounting Arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are nominal, actual bolt lengths may vary.
- Direct burial option available. Consult factory.
- Galvanized anchor bolts available. Consult factory.
- Consult factory if product must meet "Buy America" specifications.



18" (45.7 cm)



B



A

C

## Round Striaight Aluminum, Hinged

# RSAH

### Features

**Shaft** – One-piece extruded 6063 aluminum alloy with a T6 temper. Circumferential satin-brushed finish. The round, straight tube is uniform in cross-section down the length of the shaft.

**Hinged Anchor Base** – Cast from A356 aluminum alloy, the anchor base is heat-treated to a T6 temper. The shaft inserts into the tilting section of the hinged base and is joined together by continuous circumferential welds at the outside top and inside bottom. The tilting and anchored sections of the hinged base are joined by a 3/4" diameter solid aluminum pivot rod. The

tilting section of the hinged base is held in a vertical position by three 1/2"-13 x 2-1/2" stainless steel hex head bolts that attach to stainless steel inserts cast into the aluminum base. A cast-aluminum two-piece cover is included.

**Anchor Bolts** – Top 12" galvanized per ASTM A-153. Made of carbon steel bar having a minimum-yield strength of 55,000 PSI.

**Hand hole** – Available as an option, and located 90° to the right of the hinge.

**Hardware** – Stainless steel.

**Top Cap** – Top cap is provided for drill-mount poles.

**Finish** – Must specify finish. Brushed aluminum, polyester powder paint, and anodized finishes available.

### Ordering Information: See page 552

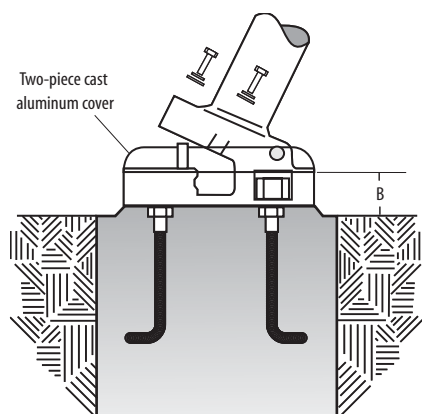
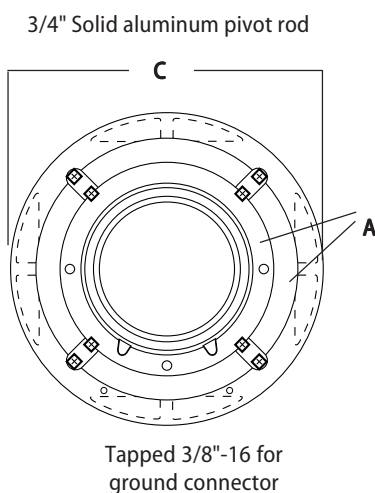
NOTE: Poles are available only in U.S.

#### INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.



### Technical Information

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	80 mph	90 mph	100 mph	max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs)
<b>RSAH 10 4C</b>	10	4 x 4 x 10	0.125	8.2	6.1	4.7	100	8-1/2-10	3/4 x 18 x 3	43
<b>RSAH 14 4C</b>	14	4 x 4 x 14	0.125	4.4	3.0	2.1	100	8-1/2-10	3/4 x 18 x 3	50
<b>RSAH 14 5E</b>	14	5 x 5 x 14	0.156	10.6	8.2	6.5	100	8-1/2-10	3/4 x 18 x 3	66
<b>RSAH 16 4C</b>	16	4 x 4 x 16	0.125	3.1	1.9	1.2	100	8-1/2-10	3/4 x 18 x 3	5
<b>RSAH 16 5C</b>	16	5 x 5 x 16	0.125	6.2	4.7	3.6	100	8-1/2-10	3/4 x 18 x 3	60
<b>RSAH 16 6E</b>	16	6 x 6 x 16	0.156	13.8	10.7	8.5	100	8-1/2-10	3/4 x 30 x 3	88
<b>RSAH 18 5C</b>	18	5 x 5 x 18	0.125	4.5	3.3	2.5	130	8-1/2-10	3/4 x 18 x 3	65
<b>RSAH 18 5G</b>	18	5 x 5 x 18	0.188	8.2	6.2	4.9	130	8-1/2-10	3/4 x 18 x 3	90
<b>RSAH 20 5C</b>	20	5 x 5 x 20	0.125	3.2	2.2	1.6	130	8-1/2-10	3/4 x 18 x 3	69
<b>RSAH 20 5G</b>	20	5 x 5 x 20	0.188	6.4	4.8	3.7	130	8-1/2-10	3/4 x 18 x 3	97
<b>RSAH 20 6G</b>	20	6 x 6 x 20	0.188	11.7	9.0	7.1	130	8-1/2-10	3/4 x 30 x 3	110

#### Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
4"	8-1/2"-10"	3-1/2"	12-5/8"	AB18-0	PJ50060
5"	8-1/2"-10"	3-1/2"	12-5/8"	AB18-0	PJ50061
6"	8-1/2"-10"	3-1/2"	12-5/8"	AB30-0	PJ50062

#### NOTES:

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are normal. Actual bolt lengths may vary.
- Pole hinges at base.
- Galvanized anchor bolts available. Consult factory.
- Consult factory if product must meet "Buy America" specifications.

# SSAH

### Features

**Shaft** – Square, non-tapered shaft made from extruded 6063-T6 aluminum alloy. Shaft width is 4 or 5 inches. Wall thickness is .125 or .188 depending on mounting height and loading requirements.

**Hinged Anchor Base** – Cast from A356 aluminum alloy and heat treated to a T6 temper. The shaft inserts into the tilting section of the hinged base and is joined together by continuous circumferential welds at the outside top and inside bottom. The tilting and anchored sections of the hinged base is held in a vertical position by three

1/2"-13 x 2-1/2" stainless steel hex head bolts which attach to stainless steel inserts cast into the aluminum base. A cast-aluminum two-piece cover is included.

**Anchor Bolts** – Top 12" galvanized per ASTM A-153. Made of 3/4" diameter steel rod having minimum-yield strength of 55,000 psi.

**Hand hole** – Available as an option, and located 90° to the right of the hinge.

**Hardware** – All screws, nuts and bolts are made of stainless steel.

**Top Cap** – Top cap is provided for drill-mount poles.

**Finish** – Must specify finish. Brushed aluminum, polyester powder paint and anodized finishes available.

### Technical Information

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	80 mph	90 mph	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
SSAH 10 4C	10	4 x 4 x 10	0.125	13.1	9.9	7.5	100	8-1/2-10	3/4 x 18 x 3	48
SSAH 12 4C	12	4 x 4 x 12	0.125	9.6	7.0	5.1	100	8-1/2-10	3/4 x 18 x 3	53
SSAH 14 4C	14	4 x 4 x 14	0.125	7.0	4.9	3.3	100	8-1/2-10	3/4 x 18 x 3	57
SSAH 15 4C	15	4 x 4 x 15	0.125	6.0	4.0	2.6	100	8-1/2-10	3/4 x 18 x 3	60
SSAH 16 4C	16	4 x 4 x 16	0.125	5.0	3.2	1.9	100	8-1/2-10	3/4 x 18 x 3	62
SSAH 16 4G	16	4 x 4 x 16	0.188	8.9	6.2	4.3	150	8-1/2-10	3/4 x 30 x 3	86
SSAH 18 4C	18	4 x 4 x 18	0.125	3.4	1.8	0.7	100	8-1/2-10	3/4 x 18 x 3	67
SSAH 18 4G	18	4 x 4 x 18	0.188	6.8	4.5	2.9	100	8-1/2-10	3/4 x 30 x 3	93
SSAH 18 5G	18	5 x 5 x 18	0.188	12.6	8.8	6.1	150	9-5/16-10	3/4 x 30 x 3	108
SSAH 20 4G	20	4 x 4 x 20	0.188	5.0	3.0	1.6	150	8-1/2-10	3/4 x 30 x 3	100
SSAH 20 5G	20	5 x 5 x 20	0.188	9.9	6.6	4.2	175	9-5/16-10	3/4 x 30 x 3	117

### Ordering Information: See page 552

NOTE: Poles are available only in U.S.

#### INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

### Pole Data

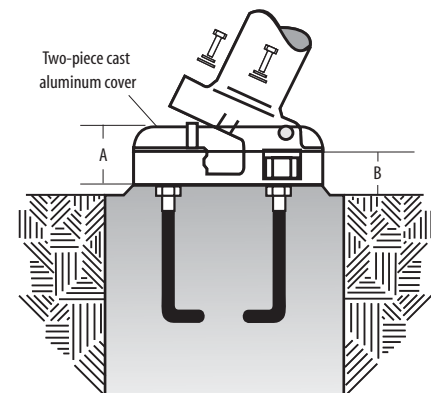
Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
4"C	8-1/2-10"	3-1/2"	11-11/16"	AB18-0	PJ50055
4"G	8-1/2-10"	3-1/2"	11-11/16"	AB30-0	PJ50055
5"	9-5/16-10"	3-1/2"	11-11/16"	AB30-0	PJ50056

#### NOTES:

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.
- Bolt lengths described are nominal. Actual bolt lengths may vary.
- Pole hinges at base.
- Galvanized anchor bolts available. Consult factory.
- Consult factory if product must meet "Buy America" specifications.

Hinge direction

"A" side of pole



Round Tapered Fiberglass

# RTF

**Features**

**Shaft** – Constructed by the filament winding process from thermosetting polyester resin and contains a minimum of 65 percent "E" type fiberglass by weight. The filament windings are continuously applied with uniform tension and are placed on the pole helically at low angles to provide axial strength. Additional windings are placed on the pole in a circular manner to provide compressive strength.

**Anchor Base** – Heavy-duty, A356-T6 aluminum

base casting which is permanently bonded to the outside of the fiberglass shaft.

**Anchor Bolts** – Top 12" galvanized per ASTM A-153. Made of 5/8" or 1" diameter steel rod having a minimum-yield strength of 55,000 psi.

**Hand hole** – An oval, non-metallic, 2-1/2"x5" hand hole secured with a vandal-resistant, stainless steel 1/2" socket head screw.

**Hardware** – Fasteners are high-strength galvanized zinc-plated or stainless steel.

**Top Cap** – Top cap provided with all drill-mount poles.

**Finish** – Must specify color.

**Ordering Information:** See page 552

NOTE: Poles are available only in U.S.

**INSTALLATION NOTES:**

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

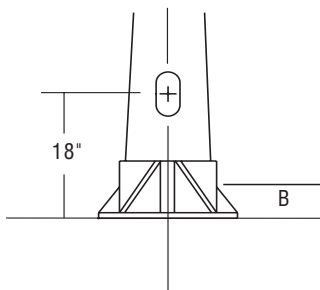
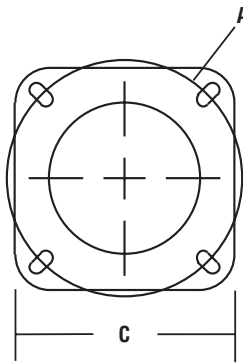
Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

**Technical Information**

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	80 mph	90 mph	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
<b>RTF 10 5-4X</b>	10	5.4 x 4.1 x 10	19.0	14.6	11.4	150	8	5/8 x 21 x 3	23
<b>RTF 12 5-6X</b>	12	5.6 x 4.1 x 12	16.0	12.1	9.3	150	8 1/2	5/8 x 21 x 3	28
<b>RTF 14 5-9X</b>	14	5.9 x 4.1 x 14	14.0	10.4	7.9	150	8 1/2	5/8 x 21 x 3	32
<b>RTF 16 6-1X</b>	16	6.1 x 4.1 x 16	10.0	7.4	5.5	100	8 1/2	5/8 x 21 x 3	36
<b>RTF 20 6-6X</b>	20	6.6 x 4.1 x 20	8.2	5.8	4.1	100	9 1/2	5/8 x 21 x 3	45
<b>RTF 20 7-3X</b>	20	7.3 x 4.6 x 20	14.4	11.1	8.9	200	11 1/2	1 x 30 x 4	62
<b>RTF 25 6-7X</b>	25	6.7 x 4.1 x 25	5.4	3.4	2.0	100	9 1/2	1 x 30 x 4	55
<b>RTF 25 7-3X</b>	25	7.3 x 4.6 x 25	9.6	7.3	5.7	200	11 1/2	1 x 30 x 4	75
<b>RTF 30 8-4X</b>	30	8.4 x 4.6 x 30	11.2	8.5	6.7	100	11 1/2	1 x 30 x 4	106
<b>RTF 30 8-5X</b>	30	8.5 x 4.8 x 30	15.6	12.0	9.5	200	11 1/2	1 x 30 x 4	140
<b>RTF 30 10-5X</b>	30	10.5 x 6.6 x 30	28.7	22.4	17.4	300	14 1/2	1 x 30 x 4	202
<b>RTF 35 8-4X</b>	35	8.4 x 4.6 x 35	5.5	3.8	2.7	100	11 1/2	1 x 30 x 4	125
<b>RTF 35 8-5X</b>	35	8.5 x 4.8 x 35	8.5	6.2	4.7	200	11 1/2	1 x 30 x 4	161
<b>RTF 35 11-2X</b>	35	11.2 x 6.6 x 35	21.8	16.6	12.5	300	15	1 1/4 x 36 x 6	248
<b>RTF 40 11-7X</b>	40	11.7 x 6.2 x 40	6.4	4.3	2.4	165	15 1/2	1 1/4 x 36 x 6	165
<b>RTF 40 11-8X</b>	40	11.8 x 6.4 x 40	12.2	8.8	6.0	300	15 1/2	1 1/4 x 36 x 6	227
<b>RTF 40 12X</b>	40	12.0 x 6.9 x 40	25.8	19.3	14.3	300	15 1/2	1 1/4 x 36 x 6	317
<b>RTF 45 11-7X</b>	45	11.7 x 6.2 x 45	3.9	2.0	0.6	300	15 1/2	1 1/4 x 36 x 6	183
<b>RTF 45 11-9X</b>	45	11.9 x 6.6 x 45	15.2	10.9	7.6	300	15 1/2	1 1/4 x 36 x 6	295



**Pole Data**

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Template number
5.4"	8"	3"	7.75"	PJ50108
5.6"	8.5"	3"	8.125"	PJ50109
5.9"	8.5"	3"	8.125"	PJ50110
6.1"	8.5"	3"	8.125"	PJ50111
6.6"	9.5"	3"	8.8"	PJ50112
6.7"	9.5"	3"	8.8"	PJ50113
7.3"	11.5"	4"	11"	PJ50114
8.4"	11.5"	4"	11"	PJ50115
8.5"	11.5"	4"	11"	PJ50116
10.5"	14.5"	4"	13.3"	PJ50117
11.2"	15"	4"	13.5"	PJ50118
11.7"	15.5"	4"	14"	PJ50119
11.8"	15.5"	4"	14"	PJ50120
11.9"	15.5"	4"	14"	PJ50121
12.0"	15.5"	4"	14"	PJ50122



# RTFDB

### Features

**Shaft** – Constructed by the filament winding process from thermosetting polyester resin and contains a minimum of 65 percent "E" type fiberglass by weight. The filament windings are continuously applied with uniform tension and are placed on the pole helically at low angles to provide axial strength. Additional windings are placed on the pole in a circular manner to provide compressive strength.

**Hand hole** – An oval, non-metallic, 2-1/2"x5" hand hole secured with a vandal-resistant, stainless steel 1/4" socket head screw.

**Hardware** – Fasteners are high-strength galvanized zinc-plated or stainless steel.

**Top Cap** – Top cap provided with all drill-mount poles.

**Finish** – Must specify color.

### Technical Information

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	80 mph	90 mph	100 mph	Max. wt.	Approx. ship wt. (lbs.)
<b>RTFDB 18 6X</b>	14	6.0 x 4.1 x 18	14.0	10.4	7.9	150	34
<b>RTFDB 20 6-6X</b>	16	6.6 x 4.1 x 20	10.0	7.4	5.5	100	38
<b>RTFDB 24 6-7X</b>	20	6.7 x 4.1 x 24	8.2	5.8	4.1	150	46
<b>RTFDB 30 8-3X</b>	25	8.3 x 4.4 x 30	6.2	4.7	3.6	100	71
<b>RTFDB 30 8-4X</b>	25	8.4 x 4.6 x 30	14.5	11.2	8.9	200	98
<b>RTFDB 35 8-4X</b>	30	8.4 x 4.6 x 35	10.5	8.0	6.2	200	116
<b>RTFDB 35 8-5X</b>	30	8.5 x 4.9 x 35	14.8	11.4	9.0	300	153
<b>RTFDB 41 11-8X</b>	35	11.8 x 6.4 x 41	14.3	10.8	7.8	300	218

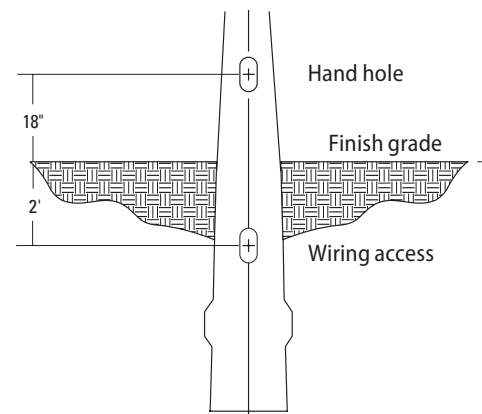
### Ordering Information: See page 552

NOTE: Poles are available only in U.S.

#### INSTALLATION NOTES:

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.



## Square Straight Fiberglass

# SSF

### Features

**Shaft** – Constructed by the pultrusion process from thermosetting polyester resin and contain a minimum of 65 percent "E" type fiberglass by weight. The fiberglass strands traverse the length of the pole.

**Anchor Base** – Heavy-duty, A356-T6 aluminum base casting is permanently bonded to the outside of the fiberglass shaft.

**Anchor Bolts** – Top 12" galvanized per ASTM A-153. Made of 5/8" or 1" diameter steel rod having a minimum-yield strength of 55,000 psi.

**Hand hole** – An oval, non-metallic, 2-1/2"x 5" hand hole secured with a vandal-resistant, stainless steel 1/4" socket head screw.

**Hardware** – Fasteners are high-strength galvanized zinc-plated or stainless steel.

**Top Cap** – Top cap provided with all drill-mount poles.

**Finish** – Must specify color

**Base Cover** – Full base cover finished to match pole.

### Ordering Information: See page 552

NOTE: Poles are available only in U.S.

#### INSTALLATION NOTES:

Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

#### NOTES:

- Mounting arrangement: (PT) open top; (T20) 2-3/8" OD (2" NPS)
- Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- Options, see page 576.
- Brackets, see page 578.

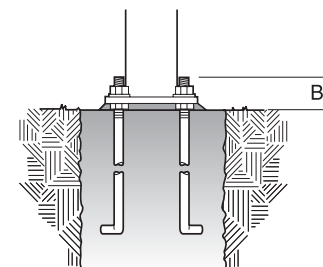
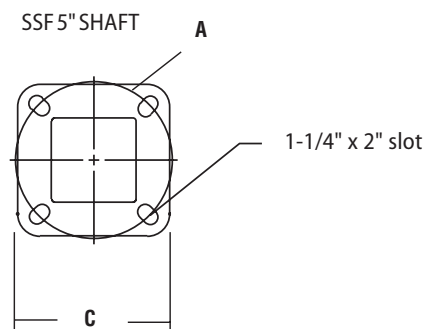
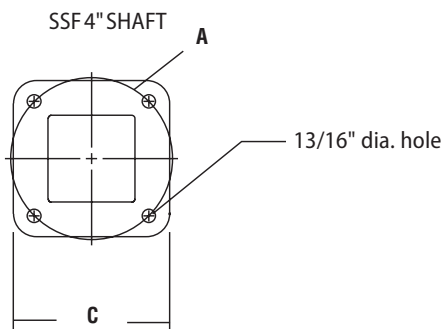
### Technical Information

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	80 mph	90 mph	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs.)
<b>SSF 6 4X</b>	6	4 x 4 x 6	23.2	17.9	14.2	150	8	5/8 x 21 x 3	18
<b>SSF 8 4X</b>	8	4 x 4 x 8	16.5	12.6	9.8	150	8	5/8 x 21 x 3	23
<b>SSF 10 4X</b>	10	4 x 4 x 10	12.0	8.9	6.7	150	8	5/8 x 21 x 3	27
<b>SSF 12 4X</b>	12	4 x 4 x 12	9.1	6.5	4.6	100	8	5/8 x 21 x 3	31
<b>SSF 14 4X</b>	14	4 x 4 x 14	6.7	4.4	2.8	100	8	5/8 x 21 x 3	35
<b>SSF 16 4X</b>	16	4 x 4 x 16	3.7	2.2	1.1	100	8	5/8 x 21 x 3	39
<b>SSF 20 4X</b>	20	4 x 4 x 20	7.2	1.8	0.5	150	8	5/8 x 21 x 3	80
<b>SSF 20 5X</b>	20	5 x 5 x 20	12.2	9.1	6.9	200	11	1 x 30 x 4	110
<b>SSF 25 4X</b>	25	4 x 4 x 25	4.2	2.5	0.75	150	8	5/8 x 21 x 3	90
<b>SSF 25 5X</b>	25	5 x 5 x 25	8.7	6.2	4.4	200	11	1 x 30 x 4	115
<b>SSF 30 5X</b>	30	5 x 5 x 30	4.7	2.8	1.9	200	11	1 x 30 x 4	120
<b>SSF305XHD</b>	30	5 x 5 x 30	8.6	5.1	2.6	200	10-12	1 x 30 x 4	164

### Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
4"	8"	3"	7.4"	ABSSF-4	PJ50123
5"	11"	4"	11.1"	ABSSF-5	PJ50124



# STC

**Features**

Shaft – Concrete mix has a minimum 28-day compressive strength of 6,500 PSI and conforms with ASTM-C150. Prestressing steel reinforcement is uncoated 7 wire, stress relieved strand per ASTM-A416. Steel spiral reinforcement conforms to ASTM-A82 and is not less than .120 (11-gauge) diameter. Poles have a continuous taper of 0.165 inches per foot.

Hand hole – A 3"x5" hand hole is located 24" above ground line and a 2-1/2" x 7" minimum conduit en-

trance is located 18" below ground line. Inserts for the hand hole and conduit entrance are non-corrosive and weatherproof. Hand-hole frames and covers conform to ASTM-B240.

Grounding – An 18" long, #4 stranded copper pigtail, connected to reinforced strand, is provided at pole top and at cable entrance below grade.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof top cap provided with all drill-mount poles.

Finish – Smooth, natural form finish, soft gray color is standard.

**Technical Information**

EPA (ft<sup>2</sup>) with 1.3 gust

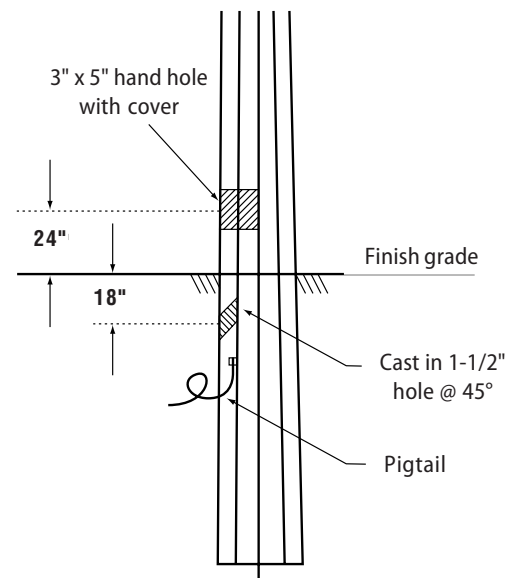
Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	80 mph	90 mph	100 mph	Approx. ship wt. (lbs.)
STC 13 4X	10'	4.0 x 4.0 x 13	3.5	3.5	3.5	189
STC 20 7-24X	16	4.0 x 7.24 x 20	22	16	13	680
STC 20 9-24X	16	6.0 x 9.24 x 20	48	37	29	1,110
STC 24 4-80X	20'	4.8 x 4.8 x 24	3.5	N/A	N/A	517
STC 24 5-60X	20'	5.6 x 5.6 x 24	3.5	3.5	N/A	686
STC 24 6-40X	20'	6.4 x 6.4 x 24	3.5	3.5	3.5	917
STC 25 8-05X	20	4.0 x 8.05 x 25	21	16	12	985
STC 25 10-05X	20	6.0 x 10.05 x 25	44	34	26	1,530
STC 30 8-86X	25	4.0 x 8.86 x 30	20	15	11	1,350
STC 30 10-86X	25	6.0 x 10.86 x 30	49	33	28	2,000
STC 35 9-67X	29	4.0 x 9.67 x 35	17	12	8	1,800
STC 35 11-67X	29	6.0 x 11.67 x 35	43	32	24	2,540
STC 35 6-40X	30'	6.4 x 6.4 x 35	3.5	N/A	N/A	1,337
STC 35 7-25X	30'	7.25 x 7.25 x 35	3.5	3.5	N/A	1,685
STC 36 8X	30'	8.0 x 8.0 x 36	3.5	3.5	3.5	2,145
STC 40 12-48X	34	6.0 x 12.48 x 40	42	30	22	3,130
STC 45 13-29X	38	6.0 x 13.29 x 45	41	31	22	3,795
STC 46 8X	40'	8.0 x 8.0 x 46	3.5	N/A	N/A	2,740
STC 47 9-25X	40'	9.25 x 9.25 x 47	3.5	3.5	N/A	3,813

**Ordering Information:** See page 552

NOTE: Poles are available only in U.S.

**INSTALLATION NOTES:**

Do not erect poles without having fixtures installed.  
If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.



## Round Tapered Concrete Sportslighting

# SPRTC

### Features

Shaft – Concrete mix has a minimum 28-day compressive strength of 11,000 PSI and conforms with ASTM-C150. Prestressing steel reinforcement is uncoated 7 wire, stress relieved strand per ASTM-A416. Steel spiral reinforcement conforms to ASTM-A82 and is not less than .203 (5-gauge wire) diameter. Poles have a continuous taper of 0.216 inches per foot. Poles are centrifugally spun and round in cross-section with a hollow center.

Hand hole – 4"x8" hand hole is located 24" above ground line. 4"x8" conduit entrance is located 18" below ground line. 2-1/2"x8" reinforced hand hole with flush cover is located at cage/crossarm locations. 1-1/2" coupling wire inlet/outlet is located opposite this hand hole. Inserts for hand hole and conduit entrance are non-corrosive and weatherproof. Hand-hole frames and covers conform to ASTM-B240.

Grounding – A continuous solid or stranded copper ground wire is cast into the pole. Wire termi-

nates at top of pole to accept a 1/2"x24" lighting rod and approximately 12" below grade. Copper coupling provides a 1/2" tapped insert at pole face for grounding hardware.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Finish – Smooth, natural form finish, soft gray color is standard.

### Ordering Information: See page 552

NOTE: Poles are available only in U.S.

#### INSTALLATION NOTES:

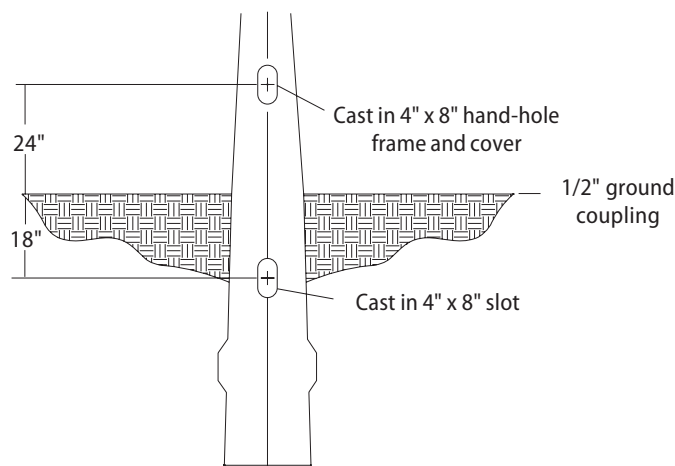
Do not erect poles without having fixtures installed.

If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.

### Technical Information

EPA (ft<sup>2</sup>) with 1.3 gust

Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	80 mph	Max. wt.	90 mph	Max. wt.	100 mph	Max. wt.	Approx. ship wt. (lbs.)
SPRTC C6 45 7-17	38	6.75 X 16.47 X 45	31	620	24	480	18	360	3,400
SPRTC C5 45 7-17	38	6.75 X 16.47 X 45	39	780	30	600	23	460	3,400
SPRTC C4 45 7-17	38	6.75 X 16.47 X 45	52	1,040	40	800	31	589	3,450
SPRTC C4 60 7-20	50	6.75 X 19.71 X 60	47	893	35	665	26	520	5,450
SPRTC C2 60 9-22	50	8.82 X 21.78 X 60	85	1,615	65	1,235	48	912	7,950
SPRTC H1 60 9-22	50	8.82 X 21.78 X 60	138	2,622	101	1,919	80	1,520	8,100
SPRTC C3 70 9-24	60	8.82 X 23.94 X 70	56	1,064	42	798	32	608	9,900
SPRTC C1 70 9-24	60	8.82 X 23.94 X 70	90	1,710	69	1,311	52	988	10,100
SPRTC H2 70 10-24	60	8.82 X 23.94 X 70	139	2,641	103	1,957	81	1,539	10,400
SPRTC C2 80 9-26	68	8.82 X 26.1 X 80	63	1,197	45	855	34	646	12,300
SPRTC C1 80 9-26	68	8.82 X 26.1 X 80	85	1,445	65	1,105	48	816	12,300
SPRTC H2 80 10-26	68	8.82 X 26.1 X 80	136	2,584	101	1,919	79	1,501	12,800
SPRTC C2 90 9-28	77	8.82 X 28.26 X 90	54	1,026	39	741	28	532	14,850
SPRTC C1 90 9-28	77	8.82 X 28.26 X 90	78	1,482	56	1,064	42	798	14,950
SPRTC H2 90 10-28	77	8.82 X 28.26 X 90	132	2,508	97	1,843	75	1,425	15,350
SPRTC C1 105 9-32	91	8.82 X 31.5 X 105	70	1,330	49	931	35	665	19,250
SPRTC H1 105 9-32	91	8.82 X 31.5 X 105	99	1,881	74	1,406	54	1,026	19,450
SPRTC H3 105 11-34	91	11.0 X 33.68 X 105	144	2,736	105	1,995	80	1,520	22,050
SPRTC C1 115 9-34	100	8.82 X 33.66 X 115	65	1,235	45	855	31	589	22,350
SPRTC H1 115 9-34	100	8.82 X 33.66 X 115	96	1,824	70	1,330	50	950	22,550
SPRTC H2 115 10-34	100	8.82 X 33.66 X 115	125	2,375	91	1,729	69	1,311	22,800



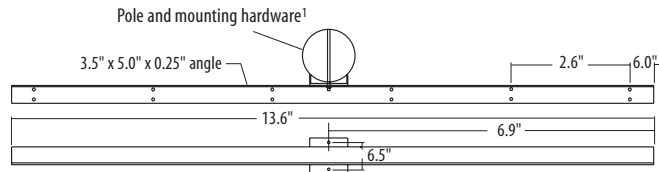
# Round Tapered Concrete Sportlighting Poles

## Angle Iron Crossarms for Concrete Poles

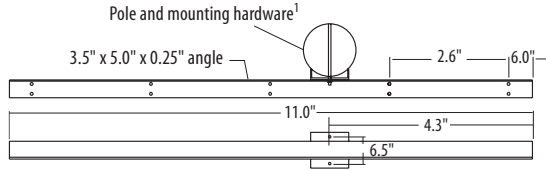
Catalog Number	Arm EPA (sq. ft.)	Weight (lbs.)
ACRCW2	1.80	50.0
ACRCW3	3.00	86.0
ACRCW4	4.50	121.0
ACRCW5	5.70	157.0
ACRCW6	7.00	193.0

## Angle Iron Crossarms for Concrete or Wood Poles

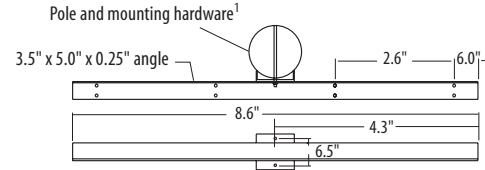
Projected area is for the crossarm only. The crossarm projected area is added to the luminaire projected area to get a total effective projected area (EPA).



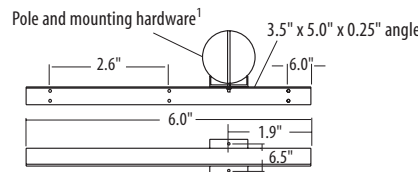
ACRCW6, 6-Fixture Angle Arm



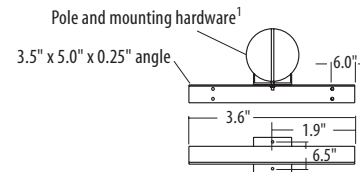
ACRCW5, 5-Fixture Angle Arm



ACRCW4, 4-Fixture Angle Arm



ACRCW3, 3-Fixture Angle Arm



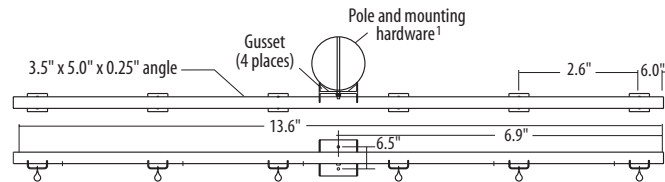
ACRCW2, 2-Fixture Angle Arm

## Pre-wired Tubular Crossarms for Concrete Poles

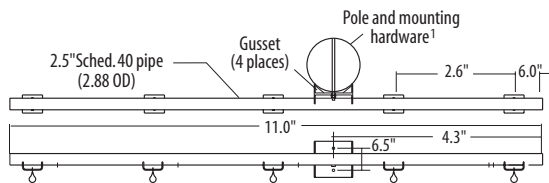
Catalog Number	EPA (sq. ft.)	Weight (lbs.)
SPXCW2	1.00	23.5
SPXCW3	1.80	40.0
SPXCW4	2.50	56.5
SPXCW5	3.20	73.0
SPXCW6	3.90	89.5

## Pre-Wired Tubular Crossarms for Concrete or Wood Poles

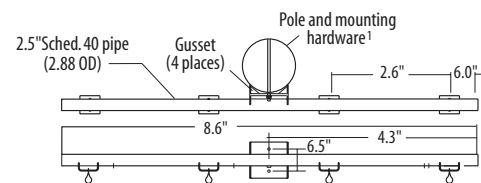
Projected area is for the crossarm only. The crossarm projected area is added to the luminaire projected area to get a total effective projected area (EPA). **Use in conjunction with CV3P luminaire option.**



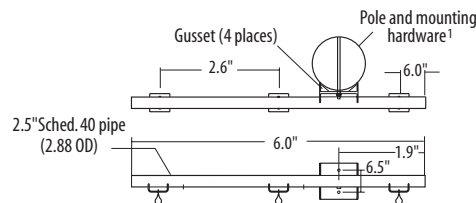
SPXCW6, 6-Fixture Crossarm



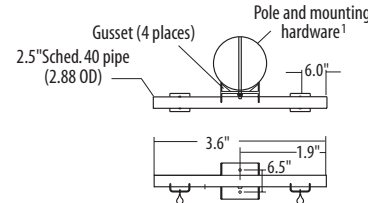
SPXCW5, 5-Fixture Crossarm



SPXCW4, 4-Fixture Crossarm



SPXCW3, 3-Fixture Crossarm



SPXCW2, 2-Fixture Crossarm

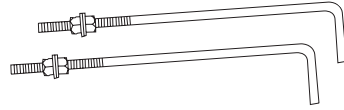
NOTES:

1 Connecting hardware for crossarm to pole is supplied by others. Bolt holes in c-channel are 0.88\" diameter.

## Pole Options

### Anchor Bolts

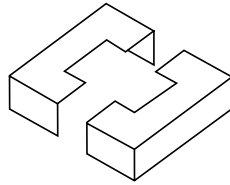
Available in various sizes for use with Lithonia poles. Set includes hex nuts and washers. Anchor bolt is partially galvanized for exposed threads per ASTM-A153. Bolts have minimum-yield strength rating of 55,000 psi, AASHTO M314 GR55. See individual pole catalog pages for anchor bolt sizes and description.



### Base Covers

Two-piece, full-base cover. Four fasteners provided to secure pieces together. Finished to match pole. Shipped separately. Standard with steel poles only.

Option	Pole	Dimensions	
		(square)	(depth)
<b>SBC4</b>	SSS 4"	8.75"	x 5.8"
<b>SBC5</b>	SSS 5"	11.44"	x 6.4"
<b>SBC6</b>	SSS 6"	13.5"	x 4"



For full-base cover on other poles, must order FBC. When ordering separately, specify full pole nomenclature; i.e., FBC for RTA 257E. Also specify if pole is existing.

### Festoon Outlets

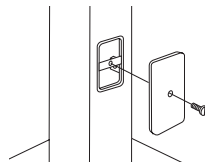
Provision provided for mounting duplex outlet. When ordering, specify location in height and feet above base of pole and orientation from the hand hole.

Option	Description
<b>FDL</b>	Festoon Duplex Outlet, Less Electric

### Hand-hole Cover Plates

**SSS HHC:** For all SSS poles

All other poles order as hand-hole cover for full pole description. Also specify if pole is existing.



### Tenon Dimensions

Tenon Mounting Slipfitters (Order separately)

Tenon OD	Number of fixtures					
	One	Two@180°	Two@90°	Three@120°	Three@90°	Four@90°
2-3/8"	<b>T20-190</b>	<b>T20-280</b>	<b>T20-290</b>	<b>T20-320</b>	<b>T20-390</b>	<b>T20-490</b>
2-7/8"	<b>T25-190</b>	<b>T25-280</b>	<b>T25-290</b>	<b>T25-320</b>	<b>T25-390</b>	<b>T25-490</b>
4"	<b>T35-190</b>	<b>T35-280</b>	<b>T35-290</b>	<b>T35-320</b>	<b>T35-390</b>	<b>T35-490</b>
<b>Aeris™</b>						
2-3/8"	<b>AST20-190</b>	<b>AST20-280</b>	<b>AST20-290</b>	<b>AST20-320</b>	<b>AST20-390</b>	<b>AST20-490</b>
2-7/8"	<b>AST25-190</b>	<b>AST25-280</b>	<b>AST25-290</b>	<b>AST25-320</b>	<b>AST25-390</b>	<b>AST25-490</b>
4"	<b>AST35-190</b>	<b>AST35-280</b>	<b>AST35-290</b>	<b>AST35-320</b>	<b>AST35-390</b>	<b>AST35-490</b>

### Couplings & Nipples

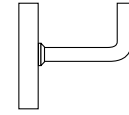
Threaded couplings and/or nipples must be factory installed. When ordering, specify location in height and feet above base of pole and orientation from the hand hole.

<b>CPL12</b>	1/2"	threaded coupling	<b>NPL12</b>	1/2"	threaded nipple
<b>CPL34</b>	3/4"	threaded coupling	<b>NPL34</b>	3/4"	threaded nipple
<b>CPL1</b>	1"	threaded coupling	<b>NPL1</b>	1"	threaded nipple

### Horizontal Arm Bracket

Single or twin side-mounted horizontal arm brackets for additional luminaires. Made from 2-3/8" pipe. Upright is 18" from pole; special arm lengths may be available upon request. Arms are rated for luminaires up to 4.5 sq. ft. EPA and 100 lbs. per arm. When ordering, specify location in height and feet above base of pole and orientation from the hand hole.

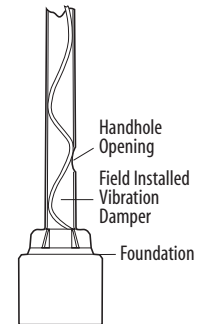
Option	Material	EPA (sq. ft.)	Weight (lbs.)
<b>H1-18A</b>	Aluminum	.43	7
<b>H1-18S</b>	Steel	.50	11
<b>H1-18F</b>	Fiberglass	.45	8
<b>H1-18C</b>	Concrete	.55	9



NOTE: SSS and SSA arm attachment is slightly different from RTA. Arm modifications located on pole to accept arms. Arms shipped as separate item.

### VD - Vibration Damper

It has been found that low steady winds sometimes induce second mode vibration in lighting poles. Second mode vibration is characterized by the maximum periodic motion occurring at approximately the mid-height of the pole. This type of vibration can result in failure of the pole and/or luminaire. There is no method of predicting destructive light pole vibration.

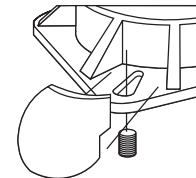


NOTES:

- 1 FVD - Field installable vibration damper available upon request. Consult factory.
- 2 For more information on the effects of vibrations, visit [www.lithonia.com](http://www.lithonia.com).

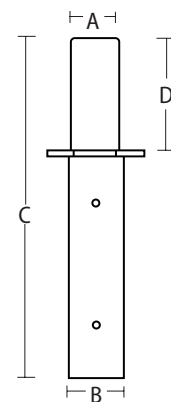
### Nut Covers

Four nut covers are standard for RSA and RTA poles only.



### Bolt-on Tenon

Cat. No.	A	B	C	D	Wt. (lbs.)
<b>SBT-4S</b>	2-3/8"	3"	133/4"	5"	7
<b>SBT-5S</b>	2-3/8"	4"	133/4"	5"	8
<b>SBT-6S</b>	2-3/8"	5"	133/4"	5"	17



NOTES:

If ordering for existing pole, must order as MAEX and include order number.

### Tamperproof

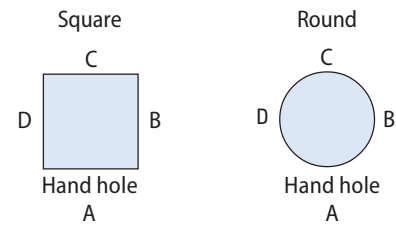
**Tamperproof (TP):** Order as TP. Tamperproof screws provided with base cover.

The orientation from the hand hole and location from the pole base must be specified when ordering the pole. The orientation from the hand hole is designated by the pole sides A, B, C or D. The location on the pole shaft is designated by the distance from the pole base.

Ordering Information

Example: HA12B

Options	Height from base (ft.)	Orientation
<b>HA</b> Horizontal arm <b>FDL</b> Festoon outlet- less electrical <b>12CP</b> 1/2" coupling <b>34CP</b> 3/4" coupling <b>1CP</b> 1" coupling <b>12NP</b> 1/2" threaded nipple <b>34NP</b> 3/4" threaded nipple <b>1NP</b> 1" threaded nipple <b>HH</b> Extra hand hole, 3 x 5 only <b>PT</b> Open top <b>T20</b> 2-3/8" tenon <b>T25</b> 2-7/8" tenon <b>T30</b> 3-1/2" tenon <b>T35</b> 4" tenon	Determined by application.	<b>A</b> side of the pole with the hand hole <b>B</b> side of the pole 90 degrees counterclockwise from the hand hole (right) <b>C</b> side of the pole 180 degrees counterclockwise from the hand hole (opposite) <b>D</b> side of the pole 270 degrees counterclockwise (or 90 degrees clockwise) from the hand hole (left)



See the following examples:

1. SSS 25 5G with one arm-mount fixture and two floodlights on horizontal arm brackets. Floodlights are to be 180 degrees from each other, 90 degrees from the shoebox and 12 feet above the base.

Order as: **SSS 25 5G DM19 HA12A HA12C**

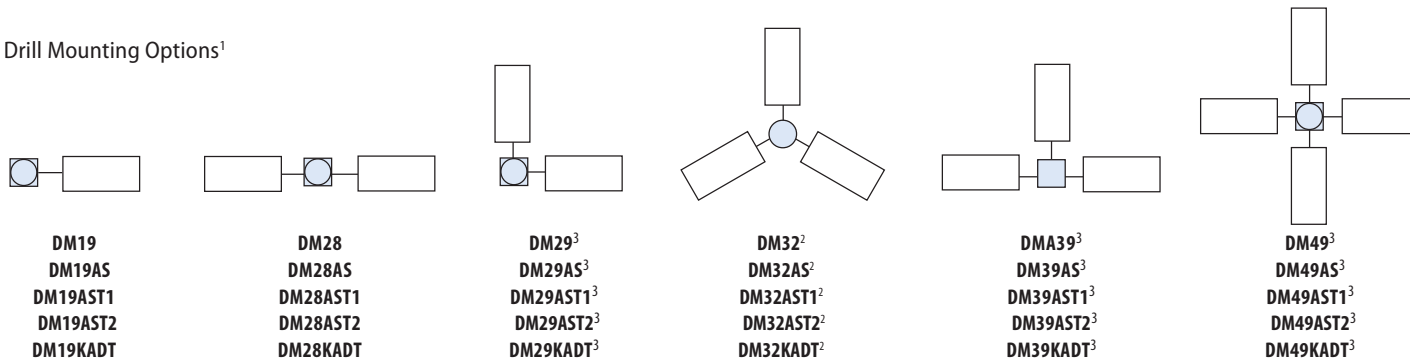
2. RTA 30 8G with two arm-mount fixtures at 180 degrees, one floodlight on a horizontal arm bracket and a 1/2" coupling. Floodlight is to be opposite hand hole and 6 feet from top of pole. Coupling should be 10 feet from top, same side as floodlight.

Order as: **RTA 30 8G HA24C 12CP20C**

3. SSS 20 4C with a 2-3/8" tenon and festoon outlet 90 degrees left of the hand hole, 5 feet above the base.

Order as: **SSS 20 4C T20 FDL5D**

Drill Mounting Options<sup>1</sup>



NOTES:

- AS denotes Aeris luminaire, AST1/AST2 denotes Aeris Suspend Size 1 or 2 and KADT denotes KAD suspend
- Available with round pole only.
- Reference fixture page for minimum arm length required when mounting 2 or more fixtures at 90°.

## Aluminum Mounting Brackets

Projected area is for bracket only. Bracket projected area is added to luminaire projected area to get total effective projected area (EPA).

All brackets have a luminaire rating per tenon of 4.5 sq. ft. projected area and 100 lbs. at a wind velocity of 100 mph (luminaire drag coefficient = 1.0).

Bullhorns and Spokes — order as separate items.

### Brackets for Round Aluminum Poles Only

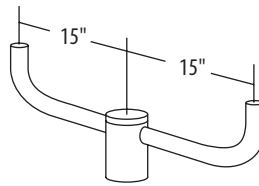
**Finish** – Natural aluminum. Optional painted finishes available. Plastic cap supplied.

#### Round pole

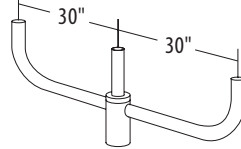
Brackets mount to T25 tenon 2-7/8" OD, or pole top that is 2-7/8"OD.

Catalog number	EPA (sq. ft.)	Weight (lbs.)
RBA28	1.2	7.0
RBA32	1.7	14.3
RBA38	1.9	10.5
RBA48	2.7	14.5
RBA49	2.2	17.5

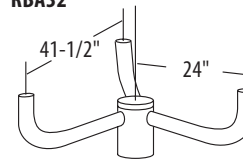
RBA28



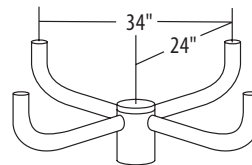
RBA38



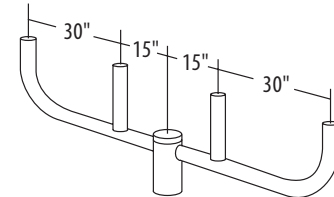
RBA32



RBA49



RBA48



### Brackets for Square Aluminum Poles Only

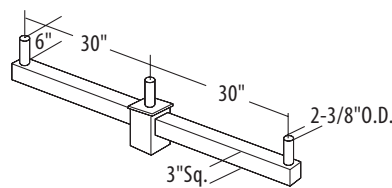
**Finish** – Natural aluminum. Optional painted finishes available. Plastic cap supplied.

#### Square pole

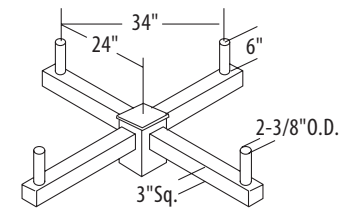
Brackets flush mount on 4", 5" and 6" square poles. For use with internal sleeve, plain open-top poles, Lithonia Lighting poles only. **Must be ordered with pole to ensure proper fit.**

Catalog number	EPA (sq. ft.)	Weight (lbs.)
SBA28	0.90	12
SBA38	1.50	17
SBA48	2.25	22
SBA49	1.7	22

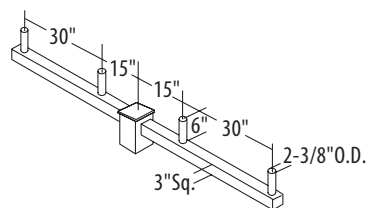
SBA38



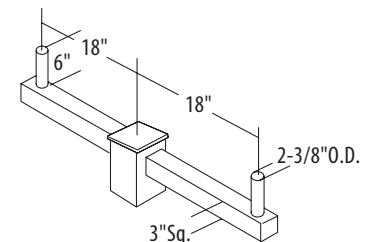
SBA49



SBA48



SBA28





## Steel Mounting Brackets

Projected area is for bracket only. Bracket projected area is added to luminaire projected area to get total effective projected area (EPA). All

brackets have a luminaire rating per tenon of 4.5 sq. ft. projected area and 100 lbs. at a wind velocity of 100 mph (luminaire drag coefficient = 1.0).

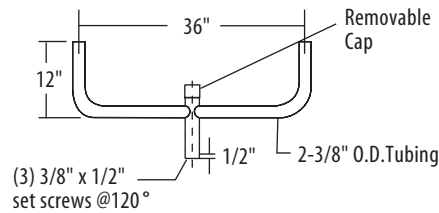
Bullhorns and Spokes — Order as separate items.

### Brackets for Steel Poles Only

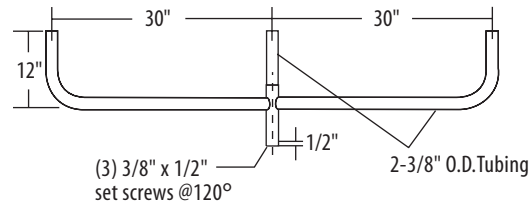
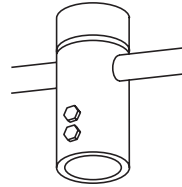
**Finish** — Dark bronze, standard. Other colors available (consult factory). Plastic cap supplied.

#### Round pole

Requires T20 Tenon (min. 5" tall). OD 2-7/8" – I.D. 2-1/2"



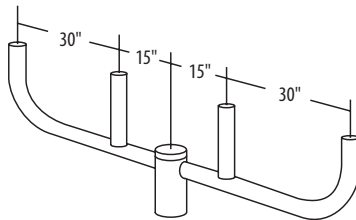
Standard Hub



Catalog Number	EPA (sq. ft.)	Weight (lbs.)
<b>BS28</b>	1.0	21.0
<b>BS28 HD</b>	1.3	28.0
<b>BS32</b>	1.3	34.0
<b>BS32 HD</b>	2.0	38.0
<b>BS38</b>	1.6	32.0
<b>BS38 HD</b>	2.2	38.0
<b>BS48</b>	2.3	44.0
<b>BS48HD</b>	3.4	47.0
<b>BS49</b>	1.6	44.0
<b>BS49 HD</b>	2.8	46.0

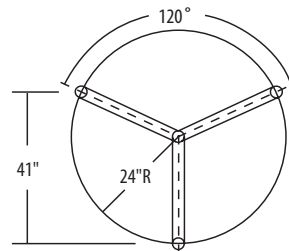
BS48 - slipfitter for T20

BS48 HD - slipfitter for T35



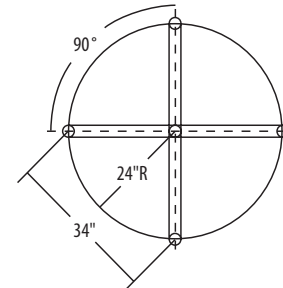
BS32 - slipfitter for T20

BS32 HD - slipfitter for T35



BS49 - slipfitter for T20

BS49 HD - slipfitter for T35



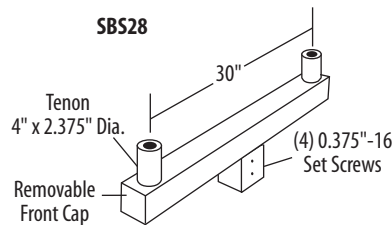
### Brackets for Steel Square Poles Only

**Finish** – Dark bronze, standard.

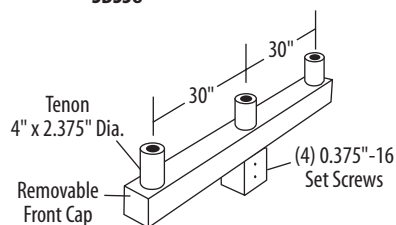
#### Square pole

Requires T20 (2-3/8" max OD) tenon on pole for mounting.

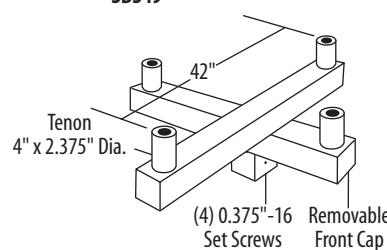
SBS28



SBS38



SBS49



Catalog Number	EPA (sq. ft.)	Weight (lbs.)
<b>SBS 28</b>	1.1	30.0
<b>SBS 38</b>	1.7	42.0
<b>SBS 49</b>	2.1	45.0