

OUTDOOR

Outdoor

Lithonia Lighting outdoor products are unmatched in the industry for distinctive designs, signature accents 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.



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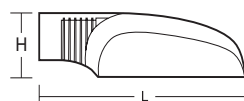


Ordering Information

Designation	Distribution	Voltage
<u>High Pressure Sodium</u>	SR2 Segmented Type II roadway	120, 208⁷, 240⁷, 277, 347, 480⁷, TB⁸, MVOLT^{9,10}
AS1 35S¹	SR3 Segmented Type III asymmetric	
AS1 50S²	SR4SC Segmented Type IV forward throw, sharp cutoff	
AS1 70S	SR4W Segmented Type IV wide, forward throw (size 2 only)	
AS1 100S	SR5S Segmented Type V square	
AS1 150S		
AS2 200S		
AS2 250S		
AS2 400S		
<u>Metal Halide</u>		
AS1 50M³		
AS1 70M³		
AS1 100M		
AS1 150M⁴		
AS1 175M		
AS2 200M⁵		
AS2 250M⁴		
AS2 320M⁵		
AS2 350M⁵		
AS2 400M⁴		
<u>Compact Fluorescent</u>		
AS1 2/32TRT⁶		
AS1 42TRT		
AS1 2/42TRT⁶		
AS1 57TRT		
AS1 70TRT		

NOTES:

- 120V only.
- 120V & 277V only.
- Not available with 480V.
- May be ordered with SCWA option.
- Must be ordered with SCWA option.
- 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 lamps) capable of operating on any line voltage between 120V & 277V.
- Mounting block standard.
- SF, DF or QRS options cannot be ordered together.
- Consult factory for availability.



Architectural Arm-Mounted Cutoff

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.

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. 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.

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

Designation	Distribution	Voltage	Mounting ¹¹	Options/Accessories
<u>High Pressure Sodium</u>	SR2 Segmented Type II roadway	120, 208⁷, 240⁷, 277, 347, 480⁷, TB⁸, MVOLT^{9,10}	<u>Included</u>	<u>Installed</u>
AS1 35S¹	SR3 Segmented Type III asymmetric		SPA Square pole mounting block	SF Single fuse, 120V, 277V, 347V (n/a TB & MVOLT) ¹²
AS1 50S²	SR4SC Segmented Type IV forward throw, sharp cutoff		RPA Round pole mounting block	DF Double fuse, 208V, 240V, 480V (n/a TB & MVOLT) ¹²
AS1 70S	SR4W Segmented Type IV wide, forward throw (size 2 only)		WBA wall bracket (up or down)	PER NEMA twist-lock receptacle only (no photocontrol)
AS1 100S	SR5S Segmented Type V square		<u>Shipped separately</u>	QRS Quartz restrike system (100W max. AS1, 250W max. AS2, lamp not included) ¹²
AS1 150S			ASKMA1 Mast arm adapter (size 1)	CR Enhanced corrosion resistance
AS2 200S			ASKMA2 Mast arm adapter (size 2)	HS House-side shield (n/a with SR4SC)
AS2 250S			DSAS1 Decorative straight arm, square pole only (size 1)	EC Emergency circuit ¹³
AS2 400S			DSAS2 Decorative straight arm, square pole only (size 2)	TP Tamperproof
<u>Metal Halide</u>			DCAS1 Decorative curved arm, square pole only (size 1)	SCWA Super CWA pulse start ballast (not available with HPS, TRT, 50, 70, 100M or 480V)
AS1 50M³			DCAS2 Decorative curved arm, square pole only (size 2)	LPI Lamp included (standard)
AS1 70M³				L/LP Less lamp
AS1 100M				CSA CSA Certified
AS1 150M⁴				NOM NOM Certified ¹³
AS1 175M				For optional architectural colors, see page 485.
AS2 200M⁵				<u>Shipped separately</u>
AS2 250M⁴				PE1 NEMA twist-lock PE (120V, 208V, 240V)
AS2 320M⁵				PE3 NEMA twist-lock PE (347V)
AS2 350M⁵				PE4 NEMA twist-lock PE (480V)
AS2 400M⁴				PE7 NEMA twist-lock PE (277V)
<u>Compact Fluorescent</u>				SC Shorting cap
AS1 2/32TRT⁶				AS1VG Vandal guard
AS1 42TRT				AS2VG Vandal guard
AS1 2/42TRT⁶				For tenon slipfitters, see page 486.
AS1 57TRT				
AS1 70TRT				

Drilling Pattern
(see pole ordering, pg. 494)

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)

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

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



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 weather-tight 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 – Naturally anodized, extruded aluminum door frame sealed to housing by silicone closed-cell gasket and secured

with (3) quarter-turn closing screws. 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 100W 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.



Ordering Information

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

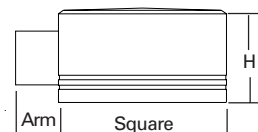
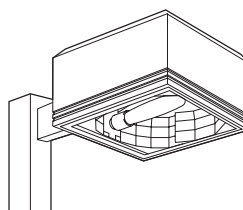
Designation	Distribution	Voltage	Mounting	Options/Accessories
<u>High Pressure Sodium</u>	R2 Type II roadway	120	<u>Included</u>	<u>Installed</u>
KSE1 70S	R3 Type III asymmetric	208³	SP04 4" square pole arm ⁵ (std.)	SF Single fuse, 120V, 277V, 347V (n/a TB)
KSE1 100S	R4SC Type IV forward throw, sharp cutoff	240³	SP09 9" square pole arm	DF Double fuse, 208V, 240V, 480V (n/a TB)
KSE1 150S	R4W Type IV wide, forward throw (size 2 only)	277	RP04 4" round pole arm ⁵	PER NEMA twist-lock receptacle only (no photocontrol)
KSE2 250S		347	RP09 9" round pole arm	QRS Quartz restrike system (100W max. in KSE1, 150 W max in KSE2, 120V lamp not included).
KSE2 400S	R5S Type V square (size 2 only)	480³	WW04 4" wood pole or wall ⁵	CR Enhanced corrosion resistance
<u>Metal Halide</u>		TB⁴	WW09 9" wood pole or wall	EC Emergency circuit
KSE1 100M			WB04 4" wall bracket	GSL Glass sag lens ⁶
KSE1 150M			WB09 9" wall bracket	SCWA Super CWA pulse start ballast (n/a with HPS or 100, 175M)
KSE1 175M			<u>Shipped separately</u>	CSA CSA Certified
KSE1 200M¹			KMA Mast arm adapter	NOM NOM Certified (consult factory)
KSE2 250M			KTMB Twin mounting bar	For optional architectural colors, see page 485.
KSE2 320M^{1,2}			DA12P Degree arm (pole)	<u>Shipped separately</u>
KSE2 350M^{1,2}			DA12WB Degree arm (wall)	PE1 NEMA twist-lock PE (120V-240V) ⁷
KSE2 400M²				PE3 NEMA twist-lock PE (347V) ⁷
				PE4 NEMA twist-lock PE (480V) ⁷
				PE7 NEMA twist-lock PE (277V) ⁷
				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

NOTES:

- 1 Must be ordered with SCWA.
- 2 Must use ED28 lamp.
- 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 Use 9" arm when mounting two luminaires at 90°.
- 6 Available on KSE2 only.
- 7 PER must be ordered with fixture.

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

	KSE1	KSE2
EPA ⁷	1.3 ft ² (.12 m ²)	1.9 ft ² (.18 m ²)
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)



For tenon slipfitters, see page 486.

KSF

Spec-Form®

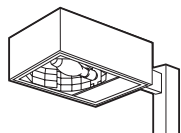


Ordering Information

Designation	Distribution
High Pressure Sodium	
KSF1 70S	R2 Type II roadway (sizes 1 & 2 only)
KSF1 100S	R3 Type III asymmetric
KSF1 150S	R4 Type IV forward throw (size 3 only)
KSF2 250S	R4SC Type IV forward throw, sharp cutoff (sizes 1 & 2 only)
KSF2 400S	
KSF3 1000S	
Metal Halide	
KSF1 100M	R4W Type IV wide, forward throw (size 2 only)
KSF1 150M	
KSF1 175M	R5S Type V square (sizes 2 & 3 only)
KSF1 200M¹	
KSF1 250M	
KSF2 320M^{1,2}	
KSF2 350M^{1,2}	
KSF2 400M²	
KSF3 1000M³	

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

	KSF1	KSF2	KSF3
EPA ¹¹	1.5 ft ² (.14 m ²)	2.0 ft ² (.19 m ²)	3.0 ft ² (.28 m ²)
Length	22 (55.9)	25 ⁵ / ₁₆ (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)



Architectural Arm-Mounted Cutoff

Intended Use

For car lots, street lighting or parking areas.

Features

Housing – Rugged, heavy-gauge, aluminum rectilinear 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 are only rotatable but not interchangeable. 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 & 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.

Example: KSF1 150S R2 120 SP09 PER

Voltage	Mounting	Options/Accessories
120	<u>Included, KSF1/KSF2</u>	<u>Installed</u>
208⁴	SP04 4" square pole arm ⁶ (std.)	SF Single fuse, 120V, 277V, 347V (n/a TB)
240⁴	SP09 9" square pole arm	DF Double fuse, 208V, 240V, 480V (n/a TB)
277	RP04 4" round pole arm ⁶	PER NEMA twist-lock receptacle only (no photocontrol)
347	RP09 9" round pole arm	QRS Quartz restrike system (75W max in KSF1, not to exceed HID wattages on size 2,250W max. on KSF3, 120V lamp not included) ⁹
480⁴	WW04 4" wood pole or wall ⁶	CR Enhanced corrosion resistance
TB⁵	WW09 9" wood pole or wall	EC Emergency circuit
	WB04 4" wall bracket	SCWA Super CWA pulse start ballast (n/a with HPS, 100M, 175M)
	WB09 9" wall bracket	CSA CSA Certified
	MB Mounting bracket	NOM NOM Certified (consult factory)
	L/ARM When ordering KMA or DA12	For optional architectural colors, see page 486.
	<u>Included, KSF3⁷</u>	<u>Shipped Separately</u>
	SP12 12" square pole arm (std.)	PE1 NEMA twist-lock PE (120V-240V) ¹⁰
	RP12 12" round pole arm	PE3 NEMA twist-lock PE (347V) ¹⁰
	WW12 12" wood pole or wall	PE4 NEMA twist-lock PE (480V) ¹⁰
	WB12 12" wall bracket	PE7 NEMA twist-lock PE (277V) ¹⁰
	<u>Shipped separately⁸</u>	SC Shorting cap for PER option
	KMA Mast arm adapter	KSF_HS House-side shield (KSF1/KSF2: R2 and R3 only. KSF3 - R3 and R4 only)
	KTMB Twin mounting bar	KSF_VG Vandal guard (KSF1/KSF2 only)
	DA12P Degree arm (pole)	
	DA12WB Degree arm (wall)	

NOTES:

- 1 Must be ordered with SCWA.
- 2 Must use ED28 lamp.
- 3 Must use BT37 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 Use 12" arm when mounting two luminaires at 90°.
- 8 May be ordered as accessory.
- 9 QRSTD available in select wattages. Consult factory.
- 10 PER option must be ordered with fixture.
- 11 Includes mounting arm.

For tenon slipfitters, see page 486.

KAD

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 tubular 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 tubular silicone.

Optics – KAD reflectors are anodized hydroformed and segmented aluminum. Four cutoff distributions available: R2 (Roadway), R3 (Asymmetric), R4 (Forward Throw) and R5 (Symmetric). 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 & 150M) or high power factor constant-wattage autotransformer (175-400W MH & HPS). Ballast is copper wound and 100% factory tested.

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

Socket – Porcelain, horizontally (position) oriented mogul-base socket (100M & 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 certified.



Example: KAD 400M R3 120 SPD09

Ordering Information

Designation	Distribution	Voltage	Mounting
<u>High Pressure Sodium</u>	<u>KAD-Hydroformed Reflectors</u>	120	<u>Included</u>
KAD 70S	R2 Type II roadway	208²	SPD04 4" square pole arm ⁴ (std.)
KAD 100S	R3 Type III asymmetric	240²	SPD09 9" square pole arm
KAD 150S	R4 Type IV forward	277	RPD04 4" round pole arm ⁴
KAD 250S	throw, sharp cutoff	347	RPD09 9" round pole arm
KAD 400S	R5S Type V square	480²	WWD04 4" wood pole or wall ⁴
<u>Metal Halide</u>	<u>Segmented Reflectors</u>	TB³	WWD09 9" wood pole or wall
KAD 100M	SR2 Type II asymmetric		WBD04 4" wall bracket
KAD 150M	SR3 Type III asymmetric		WBD09 9" wall bracket
KAD 175M	SR4SC Type IV forward		<u>Shipped separately</u>
KAD 200M¹	throw, sharp cutoff		KMA Mast arm adapter
KAD 250M			KTMB Twin mounting bar
KAD 320M¹			DAD12P Degree arm (pole)
KAD 350M¹			DAD12WB Degree arm (wall)
KAD 400M			

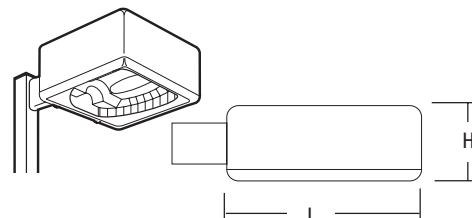
Options/Accessories	
<u>Installed</u>	
LPI	Lamp included
SF	Single fuse, 120V, 277V, 347V (n/a TB)
DF	Double fuse, 208V, 240V, 480V (n/a TB)
PER	NEMA twist-lock receptacle only (no photocontrol)
QRS	Quartz restrike system (250W max., 120V lamp not included) ⁵
PD	Power tray ⁶
WTB	Terminal block ⁶
EC	Emergency circuit
SCWA	Super CWA pulse start ballast (n/a with any HPS, 100M or 175M)
CSA	CSA Certified
NOM	NOM Certified (consult factory)
For optional architectural colors, see page 485.	
<u>Shipped separately⁷</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
HS	House-side shield (R2, R3, R4) (SR2, SR3)
KADVG	Vandal guard
KADWG	Wireguard

NOTES:

- 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.
- SPD09, RPD09 or WWD09 must be used when luminaires are oriented on DM29, DM39 or DM49 drilling pattern.
- QRSTD available in select wattages. Consult factory.
- Only available with SR2, SR3, SR4CS optics.
- May be ordered as an accessory.
- Includes mounting arm.

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

	KAD
EPA⁸	1.2 ft ² (.11 m ²)
Square	17 1/2 (44.5)
Height	7 1/8 (18.1)
Max. weight	42 lbs (19.1 kg)



KAC

Contour®

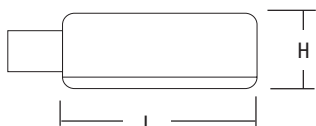
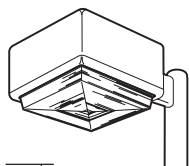


Ordering Information

Designation	Distribution
<u>High Pressure Sodium</u>	<u>KAC (prismatic lens)</u>
KAC 150S	FP Flat C73T
KAC 250S	DPA Drop acrylic
KAC 400S	DPP Drop polycarbonate
<u>Metal Halide</u>	
KAC 100M	
KAC 150M	
KAC 175M	
KAC 200M¹	
KAC 250M	
KAC 320M^{1,2}	
KAC 350M^{1,2}	
KAC 400M²	

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

	KAC DP	KAC FP
EPA ⁹	1.4 ft ² (.13 m ²)	1.2 ft ² (.11 m ²)
Square	17 1/2 (44.5)	17 1/2 (44.5)
Height	11 1/8 (28.3)	7 1/8 (18.1)
Max. weight	40 lbs (18.1 kg)	42 lbs (19.1 kg)



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 – KAD die-cast door frame has impact-resistant, tempered glass lens which is fully gasketed with one-piece bonded tubular 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 tubular silicone.

Optics – KAD reflectors are anodized hydroformed & segmented aluminum. Four cutoff distributions available: R2 (Roadway), R3 (Asymmetric), R4 (Forward Throw) and R5 (Symmetric). 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 & 150M) or high power factor constant-wattage autotransformer (175-400W MH & HPS). Ballast is copper wound and 100% factory tested.

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

Socket – Porcelain, horizontally (position) oriented mogul-base socket (100M & 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 certified.

Example: KAC 250M DPA 120 SPD09

Voltage	Mounting	Options/Accessories
120	<u>Included</u>	<u>Installed</u>
208³	SPD04 4" square pole arm ⁵ (std.)	LPI Lamp included
240³	SPD09 9" square pole arm	SF Single fuse, 120V, 277V, 347V (n/a TB)
277	RPD04 4" round pole arm ⁵	DF Double fuse, 208V, 240V, 480V (n/a TB)
347	RPD09 9" round pole arm	PER NEMA twist-lock receptacle only (no photocontrol)
480³	WWD04 4" wood pole or wall ⁵	QRS Quartz restrike system (250W max., 120V lamp not included) ⁶
TB⁴	WWD09 9" wood pole or wall	PD Power tray ⁷
	WBD04 4" wall bracket	WTB Terminal block ⁷
	WBD09 9" wall bracket	EC Emergency circuit
	<u>Shipped separately</u>	SCWA Super CWA pulse start ballast (n/a with any HPS, 100M or 175M)
	KMA Mast arm adapter	CSA CSA Certified
	KTMB Twin mounting bar	NOM NOM Certified (consult factory)
	DAD12P Degree arm (pole)	
	DAD12WB Degree arm (wall)	

NOTES:

- 1 Must be ordered with SCWA.
- 2 Requires ED28 lamp when ordered with SR2, SR3 or SR4C distributions.
- 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 SPD09, RPD09 or WWD09 must be used when luminaires are oriented on DM29, DM39 or DM49 drilling pattern.
- 6 QRSTD available in select wattages. Consult factory.
- 7 Only available with SR2, SR3, SR4CS optics.
- 8 May be ordered as an accessory.
- 9 Includes mounting arm.

For optional architectural colors, see page 485.

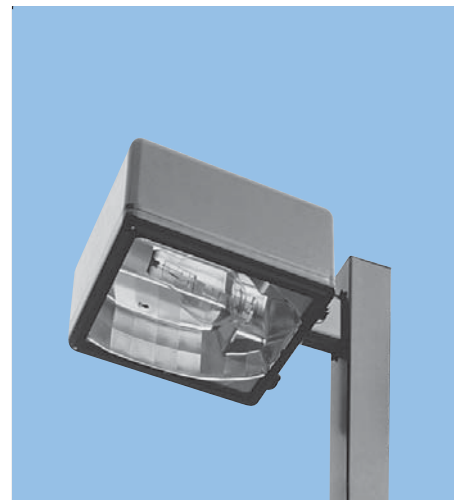
Shipped separately⁸

- 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
- HS** House-side shield (R2, R3, R4) (SR2, SR3)
- KADVG** Vandal guard
- KADWG** Wireguard

KC

KAD Combo

Contour®



Example: **KC1 250M 20C R3 4C**

Intended Use

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

Features

Configuration – Choice of single-mount (KC1) or double-mount (KC2).

Housing – Rugged, die-cast, soft-corner aluminum housing with 0.12" nominal wall thickness. Extruded 4" soft corner arm for square pole mounting. Dark bronze (DDB) corrosion-resistant polyester powder finish.

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

Lamp – Lamp included in fixture carton.

Electrical – Ballast is high-power factor, constant wattage, autotransformer, copper wound and 100% factory tested.

Socket – Porcelain, horizontally (position) oriented mogul-base socket with copper

alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V. 4KV pulse rated.

Poles – Straight square steel, pre-drilled for single or double mount. Plugs included to close off unused mounting holes.

Finish – Fixture and pole are finished with dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Reflectors are anodized hydro-formed/segmented aluminum. Two cutoff distributors available: R3 (Asymmetric) (std.) and R4 (Forward Throw).

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

Ordering Information

Designation¹

KC1 Single mount
KC2 Double mount

Lamp

Metal Halide
250M
400M

Pole length

16C 16-foot "C" pole
20C 20-foot "C" pole
25C 25-foot "C" pole
25G 25-foot "G" pole

Distribution

R3 Type III asymmetric (standard)
R4 Type IV forward throw, sharp cutoff

Pole diameter

4C 4-inch "C" pole
4G 4-inch "G" pole

Maximum Wind Load²

Pole	KC1 Single	KC2 Double
16' 4C	100 MPH	100 MPH
20' 4C	100 MPH	100 MPH
25' 4C	90 MPH	90 MPH
25' 4G	100 MPH	100 MPH

Wind Shown with 1.3 gusts

Typical Layouts using KC2 "twin" combos

Wattage	Pole*	Designing for 0.5 fc minimums		Designing for 1.0 fc minimums	
		Spacing	Avg. fc	Spacing	Avg. fc
(2) 400M R3	25'	120'x120'	2.5	120'x80'	3.9
(2) 250M R3	20'	120'x100'	1.7	60'x110'	3.0

* Light levels assume 3' concrete base

NOTES:

1 Ships with multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.

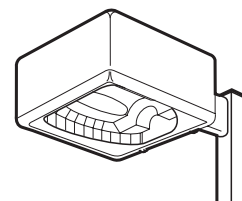
2 Wind load shown with 1.3 gusts.

3 Includes arm.

* Consult KAD or SSS specification sheets for additional information if needed.

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

	KC
EPA ³	1.2 ft ² (.11 m ²)
Square	17 1/2 (44.5)
Height	7 1/8 (18.1)
Arm length	4 (10.2)
Max. weight	42 lbs (19.1 kg)



KVF



Architectural Vertical Cutoff

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.

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. Lamp included with fixture.

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. SuperCWA PulseStart 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 rated certified for ingress protection per IEC529 international standards.

Ordering Information

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

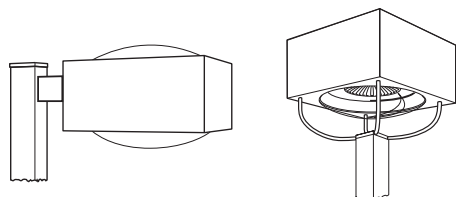
Designation	Distribution	Voltage	Mounting ⁴	Options/Accessories
<u>High Pressure Sodium</u>	<u>Vertical lamp distributions</u>	120	<u>Arm mounting</u>	<u>Installed</u>
KVF 250S	SYMDL Symmetric square, drop lens, semi-cutoff	208²	SP04 4" square pole arm ⁵	SF Single fuse, 120V, 277V, 347V (n/a TB)
KVF 400S	ASYDL Asymmetric, drop lens, semi-cutoff	240²	RP04 4" round pole arm ⁵	DF Double fuse, 208V, 240V, 480V (n/a TB)
KVF 1000S¹		277	SP06 6" square pole arm ⁵	PER NEMA twist-lock receptacle only (no photocontrol)
<u>Metal Halide</u>	SYMFL Symmetric square, flat lens, full-cutoff	347	RP06 6" round pole arm ⁵	QRS Quartz restrike system (250W max., 120V lamp not included)
KVF 175M		480²	SP09 9" square pole arm ⁵	LPI Lamp included (standard)
KVF 250M	ASYFL Asymmetric, flat lens, full-cutoff	TB³	SP12 12" square pole arm	L/LP Less lamp
KVF 320M			RP09 9" round pole arm ⁵	TLS Tool-less access
KVF 350M	VFADL Vertical forward throw automotive, drop lens, semi-cutoff		RP12 12" round pole arm	EC Emergency circuit
KVF 400M			WW12 12" wood pole or wall	CR Enhanced corrosion resistance
KVF 450M	VFAFL Vertical forward throw automotive, flat lens, full-cutoff		WB12 12" wall bracket	EHSB External house-side shield black ⁶
KVF 750M			KMA Mast arm (external fitter)	SCWA Super CWA pulse start ballast (n/a with any HPS)
KVF 1000M¹			<u>Post-top mounting</u>	EHS External house-side shield ⁶ (matches fixture finish)
	<u>Horizontal lamp distributions*</u>		PT4 Posttop, 4" OD open-top pole	EA Embossed accents
	R2DL Type II roadway, drop lens		PT45 Posttop, 4 1/2" OD open-top pole	CSA CSA Certified
	R3DL Type III asymmetric, drop lens		PT5 Posttop, 5" OD open-top pole	
	R2FL Type II roadway flat lens		PT6 Posttop, 6" OD open-top pole	
	R3FL Type III asymmetric flat lens		RPF20 Round pole fitter (2 3/8 OD tenon)	
	R4FL Type IV forward throw flat lens		RPF25 Round pole fitter (2 7/8 OD tenon)	
	<u>Segmented reflectors*</u>		SPF20 Square pole fitter (2 3/8 OD tenon)	
	SR2 Type II asymmetric		SPF25 Square pole fitter (2 7/8 OD tenon)	
	SR3 Type III asymmetric			
	SR4C Type IV forward throw, sharp cutoff			

*Not available with 450M



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

	Arm-mount	Post-top
EPA	2.8 ft ² (.25 m ²)	2.8 ft ² (.25 m ²)
Square	21 1/2 (54.6)	21 1/2 (54.6)
Height	17 (43.2)	17 (43.2)
Overall depth	–	22.7 (57.7)
Max. weight	53 lbs (24 kg)	60 lbs (27.2 kg)



For optional architectural colors, see page 485.

Shipped separately⁶

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
VG	Vandal guard
KVFEHS	External house-side shield (specify color)

For tenon slipfitters, see page 486.

NOTES:

- 1 Must use BT37 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 For arm mounting, see technical data section in Outdoor binder for drilling template.
- 5 Must order SP12 or RP12 when two or more luminaires are oriented on a 90° drilling pattern.
- 6 May be ordered as accessories.

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

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



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

Ordering Information

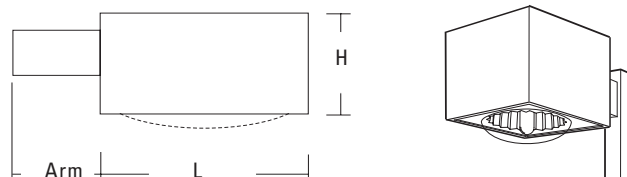
Designation		Distribution				Voltage	Mounting	Options/Accessories
<u>High Pressure Sodium</u>						120	KVS1 (Shipped separately)	<u>Installed</u>
KVS1	70S	R2	R3	R4	R5	208 ³	SP09 Square pole arm	SF Single fuse, 120V, 277V, 347V
KVS1	100S	R2	R3	R4	R5	240 ³	RP09 Round pole arm	DF Double fuse, 208V, 240V, 480V
KVS1	150S	R2	R3	R4	R5	277	WW09 Wood pole or wall	PER NEMA twist-lock receptacle only (no photocontrol)
KVS1	250S	R2	R3	R4	R5	347	WB09 Wall bracket	QRS Quartz restrike system (100W max on KVS1, 250W max on KVS2; lamp not included) ⁴
KVS3	400S	R2	R3	—	R5	480 ³	KTMB Twin mounting bar (Directly mounts to 2 7/8" OD tenon)	CR Enhanced corrosion resistance
KVS3	1000S	—	—	—	R5	TB ⁴		EC Emergency circuit
<u>Metal Halide</u>							KVS3 (Shipped separately)	MED Medium base socket (size 1 only)
KVS1	100M	R2	R3	R4	R5		SP12 Square pole arm	HS House-side shield (R3, R4, R5 only)
KVS1	150M	R2	R3	R4	R5		RP12 Round pole arm	SCWA Super CWA pulse start ballast (n/a with HPS or 100M) (1000M & 175M with R5 only).
KVS1	175M	R2	R3	R4	R5		WW12 Wood pole	CSA CSA Certified
KVS1	200M ¹	R2	R3	R4	R5		WB12 Wall bracket	NOM NOM Certified (consult factory)
KVS1	250M	R2	R3	R4	R5		MA Mast arm internal fitter ⁵	
KVS3	320M ¹	R2	R3	—	R5		OPTIONAL MOUNTING	
KVS3	350M ¹	R2	R3	—	R5		KVS1 AND KVS3 (Shipped separately)	
KVS3	400M	R2	R3	—	R5		KMA Mast arm adapter (KVS1 only) ⁶	
KVS3	1000M ²	R2	R3	—	R5		DA12P Degree arm (pole) ⁵	
							DA12WB Degree arm (wall) ⁵	
								For optional architectural colors, see page 485.
								<u>Shipped separately</u>
								PE1 NEMA twist-lock PE (120-240V) ⁷

NOTES:

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

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

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



KVE



Architectural Square Vertical

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, $\frac{3}{16}$ " 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 cutoff. 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.

Ordering Information

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

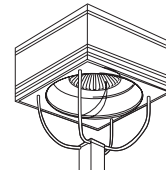
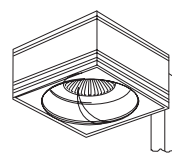
Designation	Distribution	Mounting ⁶	Options/Accessories
High Pressure Sodium	Vertical lamp distributions:	Included	Installed
KVE2 250S	SYM Symmetric, semi-cutoff ²	SPV04 4" square pole arm ^{7,8} (standard)	SF Single fuse, 120V, 277V, 347V (n/a TB)
KVE2 400S	SYMC Symmetric, full-cutoff (n/a 1000S)	SPV06 6" square pole arm ^{7,8}	DF Double fuse, 208V, 240V, 480V (n/a TB)
KVE3 1000S	ASY Asymmetric, semi-cutoff	SPV09 9" square pole arm ^{7,8}	PER NEMA twist-lock receptacle only (no photocontrol)
	ASYS Asymmetric, full-cutoff	SPV12 12" square pole arm ⁸	QRS Quartz restrike system (250W max., 120V only, lamp not included)
Metal Halide	Horizontal lamp distributions:	SPV14 14" square pole arm	CR Enhanced corrosion resistance
KVE2 175M	R2 Type II roadway (n/a 1000S) ³	RPV04 4" round pole arm ^{7,8}	EC Emergency circuit
KVE2 200M¹	R3 Type III asymmetric (n/a 1000S) ³	RPV06 6" square pole arm ^{7,8}	HS House-side shield (ASY, ASYS only. R2, R3 shipped separately)
KVE2 250M	R4SC Type IV forward throw, sharp cutoff (n/a 1000S) ³	RPV09 9" round pole arm ^{7,8}	SCWA Super CWA pulse start ballast (n/a with any HPS or 175M or 1000M horizontal)
KVE2 320M^{1,3}	R4W Type IV forward throw (1000M only) ³	RPV12 12" square pole arm ⁸	LS Lamp support (size 3 horizontal optics only)
KVE2 350M^{1,3}		RPV14 14" square pole arm	CSA CSA Certified
KVE2 400M³		WWV09 9" wood pole or wall	NOM NOM Certified (consult factory)
KVE3 1000M	R5S Type V symmetric square (1000M)	WBV09 9" wall bracket	For optional architectural colors, see page 485.
	Voltage	Shipped separately	Shipped separately
	120, 208 ⁴ , 240 ⁴ , 277, 347, 480 ⁴ , TB ⁵	PT4 Posttop, 4" OD open-top pole	PE1 NEMA twist-lock PE (120-240V)
		PT45 Posttop, 4 1/2" OD open-top pole	PE3 NEMA twist-lock PE (347V)
		PT5 Posttop, 5" OD open-top pole	PE4 NEMA twist-lock PE (480V)
		PT6 Posttop, 6" OD open-top pole	PE7 NEMA twist-lock PE (277V)
		RPF20 Round pole fitter (2 3/8" OD tenon)	SC Shorting cap for PER option
		RPF25 Round pole fitter (2 7/8" OD tenon)	
		SPF20 Square pole fitter (2 3/8" OD tenon)	
		SPF25 Square pole fitter (2 7/8" OD tenon)	

NOTES:

- Must be ordered with SCWA.
- Meets IES cutoff criteria for 1000W high pressure sodium luminaire.
- 320W, 350W, 400W MH requires ED28 lamp; 1000W MH requires BT37 lamp. Not available with KVE3 1000S.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- For arm mounting, see technical data section in Outdoor binder for drilling template.
- For KVE2 luminaires, SPV12, RPV12, SPV14 or RPV14 must be used when two or more luminaires oriented on a 90° drilling pattern.
- For KVE3 luminaires, SPV14 or RPV14 must be used when two or more luminaires oriented on a 90° drilling pattern.

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

	KVE2 (arm)	KVE2 (post)	KVE3 (arm)	KVE3 (post)
EPA	3.3 ft ² (.31 m ²)	3.4 ft ² (.32 m ²)	4.2 ft ² (.39 m ²)	4.5 ft ² (.42 m ²)
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)



KVR**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.

Lens – Impact-resistant, clear, $\frac{3}{16}$ " 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 cutoff. 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 (see Options). UL listed for wet locations.

**Ordering Information**Example: **KVR2 250S SYM 120 RPVD06 SF**

Designation	Distribution	Mounting ⁶	Options/Accessories
<u>High Pres. Sodium</u>	<u>Vertical lamp distributions</u>	<u>Included</u>	<u>Installed</u>
KVR2 250S	SYM Symmetric, semi-cutoff ²	SPVD04 4" square pole arm ^{7,8} (std.)	SF Single fuse, 120V, 277V, 347V (n/a TB)
KVR2 400S	SYMC Symmetric, full-cutoff (n/a 1000S)	SPVD06 6" square pole arm ⁸	DF Double fuse, 208V, 240V, 480V (n/a TB)
KVR3 1000S	ASY Asymmetric, semi-cutoff	SPVD09 9" square pole arm	PER NEMA twist-lock receptacle only (no photocontrol)
	ASYC Asymmetric, full-cutoff	SPVD12 12" square pole arm	QRS Quartz restrike system (250W max., 120V only, lamp not included)
<u>Metal Halide</u>	<u>Horizontal lamp distributions</u>	SPVD14 14" square pole arm	GFL Glass flat lens (n/a HPS)
KVR2 175M	R2 Type II roadway (n/a 1000S) ³	RPVD04 4" round pole arm ^{7,8}	CR Corrosion-resistant finish
KVR2 200M¹	R3 Type III asymmetric (n/a 1000S) ³	RPVD06 6" square pole arm ⁸	EC Emergency circuit
KVR2 250M	R4SC Type IV forward throw, sharp cutoff (n/a 1000S)	RPVD09 9" round pole arm	LS Lamp support (size 3 horizontal optics only)
KVR2 320M¹	R4W Type IV forward throw (1000M only) ³	RPVD12 12" square pole arm	HS House-side shield (ASY, ASYC only. R2, R3 shipped separately)
KVR2 350M¹	R5S Type V symmetric square (1000M only) ³	RPVD14 14" square pole arm	SCWA Super CWA pulse start ballast (n/a with HPS or 175M or 1000M horizontal)
KVR2 400M		WWVD09 9" wood pole or wall	CSA CSA Certified
KVR3 1000M		WBVD09 9" wall bracket	For optional architectural colors, see page 485.
	<u>Voltage</u>	<u>Shipped separately</u>	<u>Shipped separately</u>
	120, 208 ⁴ , 240 ⁴ , 277, 347, 480 ⁴ , TB ⁵	PT4 Posttop, 4" OD open-top pole ⁹	PE1 NEMA twist-lock PE (120V-240V)
		PT45 Posttop, 4 1/2" OD open-top pole ⁹	PE3 NEMA twist-lock PE (347V)
		PT5 Posttop, 5" OD open-top pole ⁹	PE4 NEMA twist-lock PE (480V)
		PT6 Posttop, 6" OD open-top pole ⁹	PE7 NEMA twist-lock PE (277V)
		RPF20 Round pole fitter (2 3/8 OD tenon)	SC Shorting cap for PER option
		RPF25 Round pole fitter (2 7/8 OD tenon)	

NOTES:

- Must be ordered with SCWA.
- Meets IES cutoff criteria for 1000W high pressure sodium luminaire.
- 400W and 1000W metal halide require reduced jacket lamp. Not available with KVR3 1000S.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V; 120V, 277V, 347V in Canada).
- For arm mounting, refer to technical data section in Outdoor binder for drilling template.
- For KVR2 luminaires, SPVD06, RPVD09, SPVD09, SPVD12 or RPVD12 must be used when two or more luminaires oriented on 90° drilling pattern.
- For 1000W luminaires, SPVD09, RPVD09, SPVD12 or RPVD12 must be used when two or more luminaires oriented on 90° drilling pattern.
- For use with round poles only.

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

	KVR2 (arm)	KVR2 (post)	KVR3 (arm)	KVR3 (post)
EPA	1.5 ft ² (.14 m ²)	1.6 ft ² (.15 m ²)	2.0 ft ² (.19 m ²)	2.2 ft ² (.20 m ²)
Diameter	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	65 lbs. (29.5 kg)	75 lbs. (34.0 kg)	70 lbs (31.8 kg)	80 lbs. (36.3 kg)

KAR

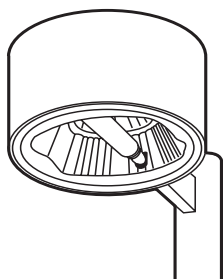


Ordering Information

Designation	Distribution
<u>High Pressure Sodium</u>	R2 Type II roadway (n/a 1000S)
KAR1 150S	R3 Type III asymmetric
KAR2 250S	R4 Type IV forward throw, (n/a size 1)
KAR2 400S	R5S Type V symmetric square (n/a size 1)
KAR3 1000S	
<u>Metal Halide</u>	
KAR1 100M	
KAR1 150M	
KAR1 175M	
KAR1 200M¹	
KAR1 250M	
KAR2 320M¹	
KAR2 350M¹	
KAR2 400M	
KAR3 1000M	

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

	KAR1	KAR2	KAR3
EPA ⁵	1.2 ft ² (.11 m ²)	1.5 ft ² (.14 m ²)	2.2 ft ² (.20 m ²)
Diameter	19 1/2 (49.5)	21 1/2 (54.6)	30 (75.6)
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)
Arm length	9 (22.9)	9 (22.9)	12 (30.5)
Max. weight	36 lbs (15.0 kg)	45 lbs (20.0 kg)	53 lbs (24.0 kg)



Arm-Mounted Centriform Cutoff

Intended Use

For parking lots, plazas or entrances.

Features

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

Door Frame – Aluminum door frame 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 (Asymmet-

ric), R4 (Forward Throw) and R5S (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 & 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 (see Options). UL listed for wet locations.

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

Voltage	Mounting	Options/Accessories
120	<u>KAR1/KAR2, shipped separately</u>	<u>Installed</u>
208²	SPD09 9" square pole arm	SF Single fuse, 120V, 277V, 347V (n/a TB)
240²	RPD09 9" round pole arm	DF Double fuse, 208V, 240V, 480V (n/a TB)
277	WWD09 9" wood pole or wall	PER NEMA twist-lock receptacle only (no photocontrol)
347	WBD09 9" wall bracket	QRS Quartz restrike system (250W max, 120V lamp not included)
480²	<u>KAR3, shipped separately</u>	CR Enhanced corrosion resistance
TB³	SPD12 12" square pole arm	EC Emergency circuit
	RPD12 12" round pole arm	HS House-side shield (R3, R4 only)
	WWD12 12" wood pole or wall	SCWA Super CWA pulse start ballast (n/a with HPS, 100M, 175M or 1000M)
	WBD12 12" wall bracket	CSA CSA Certified
	<u>Shipped separately</u>	For optional architectural colors, see page 485.
	KMA Mast arm adapter	<u>Shipped separately</u>
	KTMB Twin mounting bar	PE1 NEMA twist-lock PE (120V-240V) ⁴
	DAD12P Degree arm (pole)	PE3 NEMA twist-lock PE (347V) ⁴
	DAD12WB Degree arm (wall)	PE4 NEMA twist-lock PE (480V) ⁴
		PE7 NEMA twist-lock PE (277V) ⁴
		SC Shorting cap for PER option
		VG Vandal guard (KAR1/2 below 400W)
		For tenon slipfitters, see page 486.

NOTES:

- 1 Must be ordered with SCWA.
- 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 PER must be ordered with fixture.
- 5 Includes mounting arm.

KKR

Intended Use

For walkways, plazas or pedestrian areas.

Features

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

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. **Mounts to 4 1/2" round, open-top pole.** Other sizes require tenon and tenon slipfitter.

Optics – One-piece, hydroformed, anod-

ized-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 (-40°F starting), copper wound and 100% factory tested. Removable, unitized power module. Positive-locking disconnect plugs (primary and secondary).

Socket – Horizontally oriented, 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 (see Options). UL listed for wet locations.



Example: **KKR 175M R5S 120 QRS**

Ordering Information

Designation	Distribution	Voltage	Optional mounting ⁵
<u>High Pressure Sodium</u>	R3	120	<u>Shipped separately</u>
KKR 70S	R4²	208³	SM Side-mounting
KKR 100S	R5²	240³	assembly (one per
KKR 150S	R5S	277	luminaire)
KKR 250S		347	WM Wall-mounting
KKR 400S		480³	assembly
		TB⁴	T20 Tenon slipfitter (for 2"
<u>Metal Halide</u>			pipe tenon, 2 3/8" OD)
KKR 150M			T25 Tenon slipfitter (for 2 1/2"
KKR 175M			pipe tenon, 2 7/8" OD)
KKR 200M¹			Mounts to any 4 1/2" round open-top pole.
KKR 250M			Other pole sizes require tenon and tenon
KKR 320M¹			slipfitter.
KKR 350M¹			
KKR 400M			

Options/Accessories
<u>Installed</u>
SF Single fuse, 120V, 277V, 347V
DF Double fuse, 208V, 240V, 480V
PER NEMA twist-lock receptacle only (no photocontrol)
QRS Quartz restrike system (250W max, 120V lamp not included).
CR Enhanced corrosion resistance
EC Emergency circuit
PC Polycarbonate lens
LS Lamp support
HS House-side shield (R3 and R4 only)
SCWA Super CWA pulse start ballast (n/a with HPS or 175M).
CSA CSA Certified

For optional architectural colors, see page 485.

Shipped separately

PE1	NEMA twist-lock PE (120V-240V) ⁶
PE3	NEMA twist-lock PE (347V) ⁶
PE4	NEMA twist-lock PE (480V) ⁶
PE7	NEMA twist-lock PE (277V) ⁶
SC	Shorting cap for PER option

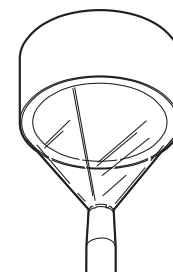
For tenon slipfitters, see page 486.

NOTES:

- Must be ordered with SCWA.
- KKR 400M R4 and R5 require ED28 reduced jacket lamp.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- When ordering separately, order as KKR SM, KKR WM, KKR T20, or KKR T25.
- PER option must be ordered with fixture.

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

	KKR
EPA	1.6 ft ² (.15 m ²)
Diameter	22 1/4 (56.5)
Housing height	11 (27.9)
Overall height	20 1/2 (52.1)
Max. weight	45 lbs (20.0 kg)



KKS



Square Post-Top Cutoff

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. **Mounts to 4" square, 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.

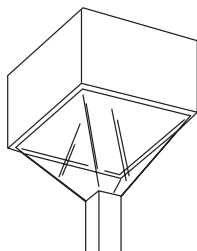
Listings—UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations.

Ordering Information

Designation	Distribution	Voltage	Optional mounting ⁵	Options/Accessories
High Pressure Sodium				
KKS 70S	R3	120	<u>Shipped separately</u>	<u>Installed</u>
KKS 100S	R4 ²	208 ³	SM Side-mounting assembly (one per luminaire)	SF Single fuse, 120V, 277V, 347V
KKS 150S	R5 ²	240 ³	WM Wall-mounting assembly	DF Double fuse, 208V, 240V, 480V
KKS 250S	R5S	277	T20 Tenon slipfitter (for 2" pipe tenon, 2 3/8" OD)	PER NEMA twist-lock receptacle only (no photocontrol)
KKS 400S		347		QRS Quartz restrrike system (250W max, 120V lamp not included).
		480 ³		CR Enhanced corrosion resistance
		TB ⁴		EC Emergency circuit
Metal Halide				
KKS 150M			Mounts to any 4" square open-top pole. Other pole sizes require tenon and tenon slipfitter.	PC Polycarbonate lens
KKS 175M				HS House-side shield (R3 and R4 only)
KKS 200M ¹				SCWA Super CWA pulse start ballast (n/a with HPS or 175M).
KKS 250M				CSA CSA Certified
KKS 320M ¹				NOM NOM Certified (consult factory)
KKS 350M ¹				
KKS 400M				

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

	KKS
EPA	2.5 ft ² (.23 m ²)
Square	20 1/4 (51.4)
Housing height	11 3/4 (29.9)
Overall height	20 3/4 (52.7)
Max. weight	54lbs (24.4kg)



NOTES:

- 1 Must be ordered with SCWA.
- 2 KKS 400M R4 or R5 requires ED28 reduced jacket lamp.
- 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 When ordering separately, order as KKS SM, KKS WM or KKS T20.
- 6 PER option must be ordered with fixture.

Example: KKS 70S R3 120 QRS

For optional architectural colors, see page 485.

Shipped separately

- PE1 NEMA twist-lock PE (120V-240V)⁶
- PE3 NEMA twist-lock PE (347V)⁶
- PE4 NEMA twist-lock PE (480V)⁶
- PE7 NEMA twist-lock PE (277V)⁶
- SC Shorting cap for PER option

For tenon slipfitters, see page 486.

Intended Use

For parking areas, new construction or retrofit.

Features

Housing – Rugged, heavy-gauge, aluminum housing in symmetric square shape. Continuously welded seams for weather-tight integrity. Recessed, combination-head 1 $\frac{3}{4}$ " turn fastener. Positive-locking device retains housing open during servicing. Dark bronze corrosion-resistant polyester powder finish (DDB) standard; other architectural colors available.

Lensframe – Die-cast aluminum lens frame. Butyl rubber gasket and EPT closed-cell foam gasket prevent entry of outside contaminants. Brushed-aluminum legs factory-installed into lens frame.

Lens – Impact-resistant tempered flat glass. Drop lens standard on 1000M.

Mounting – Slipfitter pole-top mounting for

2 $\frac{3}{8}$ " OD x 5" high tenon. Mounting hardware packaged separately.

Optics – One-piece, hydroformed aluminum, multifaceted, anodized aluminum reflectors. Two cutoff distributions available: R3 (Asymmetric) and R5S (Square). Field-interchangeable reflectors hinge out for servicing.

Electrical – 150S high-reactance, high power factor ballast. Constant-wattage autotransformer, copper wound and 100% factory-tested. All electrical components are unitized on power module for ease of installation and maintenance. Positive-locking disconnect plugs (primary and secondary).

Socket – Horizontally oriented, 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.



Ordering Information

Example: **KQS 250S R3 120 SPF QRS**

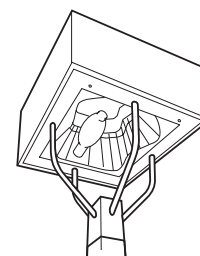
Designation	Distribution	Voltage	Mounting	Options/Accessories
<u>High Pressure Sodium</u>	R3	120	<u>Shipped separately</u>	<u>Installed</u>
KQS 150S	R5S	208⁴	SPF Square pole fitter (standard) for 2 $\frac{3}{8}$ " OD x 5" tenon	SF Single fuse, 120V, 277V, 347V
KQS 250S		240⁴	RPF Round pole fitter 2 $\frac{3}{8}$ " OD x 5" tenon	DF Double fuse, 208V, 240V, 480V
KQS 400S		277		PER NEMA twist-lock receptacle only (no photocontrol)
KQS 1000S¹		347		QRS Quartz restrrike system (500W max, 120V lamp not included)
<u>Metal Halide</u>		480⁴		CR Enhanced corrosion resistance
KQS 175M		TB⁵		EC Emergency circuit
KQS 200M²				LS Lamp support (1000W only)
KQS 250M				HS House-side shield (R3 only)
KQS 320M²				SCWA Super CWA pulse start ballast (n/a with HPS, 175M or 1000M)
KQS 350M²				CSA CSA Certified
KQS 400M				NOM NOM Certified (consult factory)
KQS 1000M³				For optional architectural colors, see page 485.

NOTES:

- Not available with R3 distribution.
- Must be ordered with SCWA.
- KQS 1000M requires BT37 reduced jacket lamp.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- PER option must be ordered with fixture.

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

	KQS
EPA	2.2 ft ² (.21 m ²)
Square	24 (70.0)
Housing height	9 $\frac{1}{2}$ (24.1)
Overall height	27 $\frac{1}{2}$ (69.9)
Max. weight	67 lbs (30.0 kg)



TDD



Ordering Information

Designation	Voltage
High Pressure Sodium	120
TDD 100S	
TDD 150S	
Mercury Vapor	
TDD 175MV	

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 ease of maintenance and lamp replacement. Prismatic refractor provides uniform symmetrical Type V distribution, mogul based socket.

Installation – 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).

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

Photocell	Lamp
PER Photocell receptacle and NEMA twist-lock photocell included as standard	LPI Lamp included as standard

Accessories (Order separately)

PE1 Replacement photocell
RK1 TDDLENS Replacement lens

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

	TDD
EPA	0.8 ft ² (0.07m ²)
Height	17 (43.18)
Width	12 (30.48)
Depth	12 (30.48)
Max weight	12 lbs (5.44 kg)

TDB

NEW



Ordering Information

Designation	Voltage
High Pressure Sodium	120
TDB 50S	
70S	
100S	
150S	
Mercury Vapor	
TDB 100MV	
175MV	
250MV	

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 – Squared 1¼" (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.

Example: **TDB 175MV 120 PKG**

Options/Accessories
Shipped installed in fixture
PKG Fixture, mounting arm, hardware, lamp and photoeye included in one box (standard)
L/PKG Fixture, optical and receptacle only in box

Accessories (Order separately)

RK1 TDDLENS A1250B Replacement lens

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

	TDB
EPA	0.8 ft ² (0.07m ²)
Height	15 1/2 (39.4)
Width	12 (30.48)
Depth	12 (30.48)
Max weight	15 lbs (6.8 kg)

Dusk-to-Dawn Area Lighters

Security Lighting

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 symmet-

rical Type V distribution. (Glass for 250MV).

Installation – 1¼" (OD) Mounting arm and all mounting hardware is included in carton. Photocell and lamp are included in carton. (18"-24" mounting arm depending on wattage).

Listings – 150S and below and 175 and below are UL listed for wet locations. For CSA or NOM requirements, consult factory.

Ordering Information

Example: **TDL 175MV 120 PKG**

Designation	Voltage
<u>High Pressure Sodium</u>	120
TDL 70S	
100S	
150S	
<u>Mercury Vapor</u>	
TDL 175MV	
250MV	

Options
<u>Shipped installed in fixture</u>
PKG Fixture, mounting arm, hardware, lamp and photoeye included in one box (standard)
L/PKG Fixture, optical and receptacle only in box

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

	TDL
EPA	0.8ft ² (0.07m ²)
Height	15½ (39.4)
Width	12 (30.48)
Depth	12 (30.48)
Max weight	18 lbs (8.16 kg)

TDL

NEW



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 – 1¼" (OD) Mounting arm and all mounting hardware is included in carton. Photocell and lamp are included in carton. (18" mounting arm)

Listings – Standard product is NOT listed by UL, CSA, or NOM.

Ordering Information

Example: **TDC 175MV 120 PKG**

Designation	Voltage
<u>High Pressure Sodium</u>	120
TDC 70S	
100S	
150S	
<u>Mercury Vapor</u>	
TDC 175MV	
250MV	

Options
<u>Shipped installed in fixture</u>
PKG Fixture, mounting arm, hardware, lamp and photoeye included in one box (standard)
L/PKG Fixture, optical and receptacle only in box

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

	TDC
EPA	1.2ft ² (0.11m ²)
Height	17 (43.18)
Width	12 (30.48)
Depth	12 (30.48)
Max weight	12 lbs (5.44 kg)

TDC

NEW



CHE

NEW


Small Roadway Lighting

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. Available with or without twist-lock photocontrol receptacle. Integral wildlife shield.

Finish – Gray 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 effi-

cient 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.

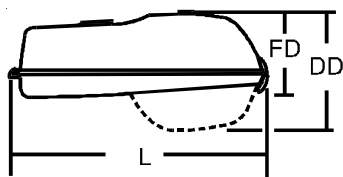
Installation – Two-bolt mast arm mount. Arm is compatible with 1.25" - 2.0" (3.2cm - 5.1cm) mast arm.

Listings – IP32 rated housing and IP54 rated optical assembly is standard. IP65 rating is available for optical assembly, see options. Standard product is NOT listed by UL, CSA or NOM. For specific listing requirements, consult factory.

Ordering Information

Example: **CHE 100S R2 DLG 120 PER LPI**

Series	Wattage	NEMA distribution	Lens	Voltage	Ballast options	Options
CHE	<u>High Pressure Sodium</u>	R2 R3	DLG Drop lens glass (standard) DLA Drop lens acrylic DLP Drop lens polycarbonate FL Flat tempered glass lens, full cutoff	(blank) 120 L/E L/E ²	(blank) Reactor normal power factor ballast (standard) RHP Reactor high power factor ballast	<u>Installed</u> LPI Lamp included PER NEMA twist-lock receptacle only (photocontrol not included) PE1 NEMA twist-lock PE (120V) IP65 IP65 rating for optics <u>Shipped separately</u> ³ SC Shorting cap for PER option



NOTES:

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

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

	CHE
Flat lens EPA	.61 ft ² (.057 m ²)
Drop lens EPA	.77 ft ² (.072 m ²)
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)

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. Available with or without twist-lock, photocontrol receptacle. **CHLD units:** all major electrical components mounted on removable power door for easy field servicing and maintenance.

Finish – Gray 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.

Listings – IP64 rated optical assembly. IP65 rating available; see Options. Standard product is NOT listed by UL, CSA or NOM. For specific listing requirements, consult factory.

NEW



Ordering Information

Example: **CHL 150S R2 DLG 120 LP1 PER**

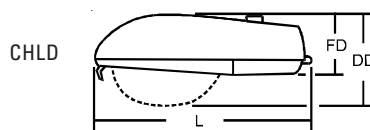
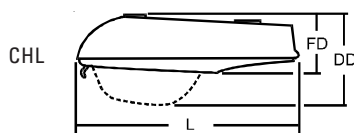
Series	Wattage	NEMA distribution	Lens	Voltage	Ballast options	Options
CHL	<u>Metal Halide</u>	R2	DLG Drop lens glass (standard)	120	(blank) Standard ballast (see Features)	<u>Installed</u>
CHLD	175M	R3	DLA Drop lens acrylic	208	RNP Reactor normal power factor ballast ⁶	LPI Lamp included
	250M		DLP Drop lens polycarbonate	240	RHP Reactor high power factor ballast	PER NEMA twist-lock receptacle only (photocontrol not included)
	<u>Mercury Vapor</u>		FL Flat tempered glass lens, full cutoff ¹	277	50HZ 50 Hertz (consult factory)	PE1 NEMA twist-lock PE (120V, 208V, 240V)
	175MV		FLX Flat tempered glass lens, high-performance full cutoff ¹	480		PE4 NEMA twist-lock PE (480V)
	250MV			TB²		PE7 NEMA twist-lock PE (277V)
	<u>High Pressure Sodium</u>			TB1²		CF Charcoal filter, silicone lens gasket
	50S			TB3²		IP65 IP65 rating for optics
	70S			120/240³		LSA1 Single lighting surge arrester ⁷
	100S			240/480⁴		LSA2 Dual lighting surge arrester ⁷
	150S			L/E⁵		SF Single 5 amp fuse ⁸
	250S					SF10 Single 10 amp fuse ⁸
						SF15 Single 15 amp fuse ⁸
						SF20 Single 20 amp fuse ⁸
						DF Double 5 amp fuse ⁹
						DF10 Double 10 amp fuse ⁹
						DF15 Double 15 amp fuse ⁹
						DF20 Double 20 amp fuse ⁹
						DDB Dark bronze finish
						DBL Black finish

NOTES:

- HPS only, 150W max. with R3.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prepwired to 277V. Others are: TB1 = 120V, TB2 = 208V, TB3 = 240V.
- MV only, prepwired to 120V.
- MV only, prepwired to 240V.
- Shipped without ballast/electrical components.
- HPS only, 150W max.
- Available in 120V and 240V only.
- 120V, 277V only. Not available with TB.
- 208V, 240V and 480V only. Not available with TB.
- May be ordered as an accessory.

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

	CHL	CHLD
Flat Lens EPA	.74 ft ² (.07 m ²)	.74 ft ² (.07 m ²)
Drop Lens EPA	.90 ft ² (.08 m ²)	.90 ft ² (.08 m ²)
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)



Shipped separately¹⁰

SC Shorting cap for PER option.

CHM CHMD

NEW



Medium-Wattage Roadway Lighting

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. **CHMD units:** all major electrical components mounted on removable power door for easy field servicing and maintenance.

Finish – Gray 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 applications. 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.

Listings – IP64 rated optical assembly. IP65 rating available; see Options. Standard product is NOT listed by UL, CSA or NOM. For specific listing requirements, consult factory.

Ordering Information

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

Series	Wattage	NEMA distribution	Lens	Voltage	Ballast options	Options
CHM CHMD	<u>Metal Halide</u>	R2 R3	DLG Drop lens glass (standard)	120	(blank) Standard	<u>Installed</u>
	175M		208	ballast (see Features)	LPI Lamp included	
	250M ¹		240	SCWA Super CWA pulse start	LPIC Coated lamp included (MV)	
	320M ²		277			
	350M ²		480	50HZ 50 Hertz (consult factory)	PER NEMA twist-lock receptacle only (photocontrol not included)	
	400M ¹		TB ⁴			
	<u>Mercury Vapor</u>		TB1 ⁴	RNP Reactor normal power factor ballast ⁴	PE1 NEMA twist-lock PE (120V, 208V, 240V)	
	175MV		TB2 ⁴			
	250MV		TB3 ⁴	RHP Reactor high power factor ballast ⁴	PE4 NEMA twist-lock PE (480V)	
	400MV		120/240 ⁵			
	<u>High Pressure Sodium</u>		240/480 ⁶	PE7 NEMA twist-lock PE (277V)		
	200S		L/E ⁷			
	250S			CF Charcoal filter, silicone lens gasket		
	310S					
400S						
NOTES:						IP65 rating for option
1 May be ordered with SCWA.						

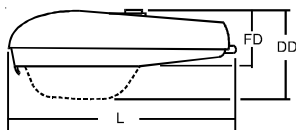
NOTES:

- May be ordered with SCWA.
- Must be ordered with SCWA.
- HPS only.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277V. Others are: TB1 = 120V, TB2 = 208V, TB3 = 240V.
- MV only, prewired to 120V.
- MV only, prewired to 240V.
- Shipped without ballast/electrical components.
- Available in 120V and 240V only.
- 120V and 277V only.
- 208V, 240V and 480V only.
- May be ordered as an accessory.

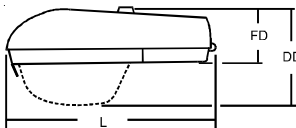
Dimensions do not include mounting arm. Dimensions are shown in **inches (centimeters)** and **pounds (kilograms)** unless otherwise noted.

	CHM	CHMD
Flat Lens EPA	1.14 ft ² (.11 m ²)	1.14 ft ² (.11 m ²)
Drop Lens EPA	1.3 ft ² (.12 m ²)	1.3 ft ² (.12 m ²)
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)

CHM



CHMD



Shipped Separately¹¹

SC Shorting cap for PER option.

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. Available with or without twist-lock photocontrol receptacle.

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

Optical System – Precision 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.

Listings – Standard product is NOT listed by UL, CSA or NOM. For specific listing requirements, consult factory.

NEW



Ordering Information

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

Series	Wattage	NEMA distribution	Lens	Voltage	Ballast options	Options
CHX	<u>Metal Halide</u>	R2 R3	DLG Drop lens glass (standard)	120	(blank) Standard ballast (see Features)	<u>Installed</u>
	1000M			208		LPI Lamp included
	<u>Mercury Vapor</u>			240		PER NEMA twist-lock receptacle only (photocontrol not included)
	700MV			277		PE1 NEMA twist-lock PE (120V, 208V, 240V)
	1000MV			TB¹		PE4 NEMA twist-lock PE (480V)
	<u>High Pressure Sodium</u>			TB1¹		PE7 NEMA twist-lock PE (277V)
	310S			TB2¹		IP65 IP65 rating for optics
	400S			TB3¹		LSA1 Single lighting surge arrestor ⁵
	1000S			120/240²		LSA2 Dual lighting surge arrestor ⁵
				240/480³		SF Single 5 amp fuse ⁶
				L/E⁴		SF10 Single 10 amp fuse ⁶
						SF15 Single 15 amp fuse ⁶
						SF20 Single 20 amp fuse ⁶
						DF Double 5 amp fuse ⁷
						DF10 Double 10 amp fuse ⁷
						DF15 Double 15 amp fuse ⁷
						DF20 Double 20 amp fuse ⁷
						DDB Dark bronze finish
						DBL Black finish

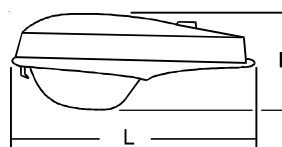
NOTES:

- Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277V. Others are: TB1 = 120V, TB2 = 208V, TB3 = 240V.
- MV only, prewired to 120V.
- MV only, prewired to 240V.
- Shipped without ballast/electrical components.
- Available in 120V and 240V only.
- 120V and 277V only.
- 208V, 240V and 480V only.
- May be ordered as an accessory.

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

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

CHX

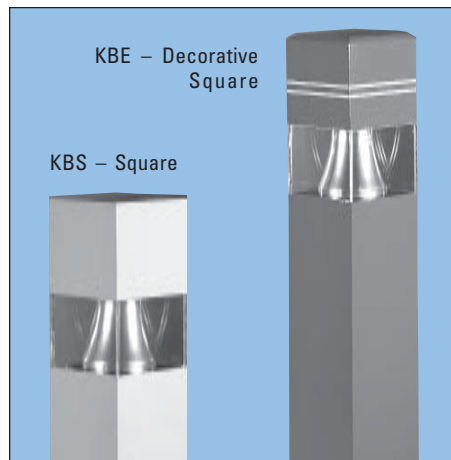


Shipped Separately⁸

SC Shorting cap for PER option.

KBS

KBE



Square Bollards

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 ¼", clear, 100% virgin acrylic. Exposed hardware is tamper-resistant stainless steel. Four ½" x 11" anchor bolts with double nuts/washers and 4½"-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.

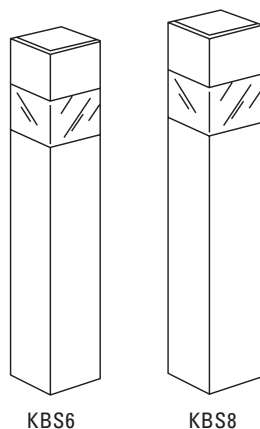
Optics – Reflector system incorporates an anodized, spun aluminum flared cone and an anodized, hydroformed, fluted upper reflector providing a Type V (Symmetric) cutoff distribution. Optional cylindrical lower reflector available.

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.

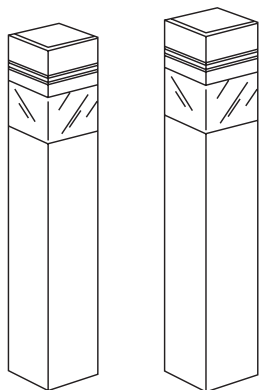
Ordering Information

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



KBS6

KBS8



KBE6

KBE8

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

	KBE6/KBS6	KBE8/KBS8
Square	6 (15.2)	8 (20.3)
Height*	42 (106.7)	42 (106.7)
Max weight	43.2 lbs (19.6 kg)	43.2 lbs (19.6 kg)

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

Designation	Reflector	Voltage	Options/Accessories
6" Bollards:			
High Pressure Sodium	Standard Flared Cone:	120	<u>Options (installed)</u>
KB_6 35S¹	R5 Type V distribution	208	SF Single fuse (120V, 277V, 347V)
KB_6 50S		240	DF Double fuse (208V, 240V)
KB_6 70S		277	CR Enhanced corrosion resistance
Metal Halide		347	H24 24" overall height
KB_6 50M²		TB⁵	H30 30" overall height
KB_6 70M²			H36 36" overall height
Incandescent			FD Festoon outlet
KB_6 I^{1,3}			FG Festoon outlet with duplex ground fault receptacle
8" Bollards:			PC Polycarbonate lens
High Pressure Sodium	Optional Cylindrical Reflector:		CSA CSA Certified
KB_8 50S	CYA Specular Alzak		<u>Accessories (shipped separately)</u>
KB_8 70S	CYB Black Alzak		S6S Half-shield (6" square)
KB_8 100S	CYG Gold Alzak		S8S Half-shield (8" square)
KB_8 150S	CYF Flat black		
Metal Halide			
KB_8 70M²			
KB_8 100M²			
Incandescent			
KB_8 I^{1,4}			

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.

KBA KBD

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 KBR 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 providing 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.

KBD – Soft Corner

KBA – Dome-Top



Shown with optional louvers.

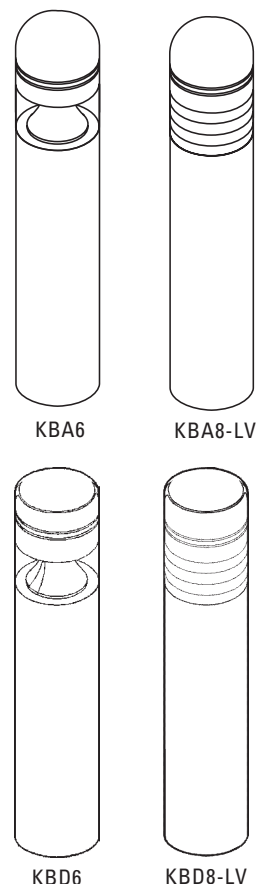
Ordering Information

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

Designation	Reflector	Voltage	Options/Accessories
6" Bollards:			
High Pressure Sodium	Standard Flared Cone	120, 208, 240,	Options (shipped installed)
KB_6 35S ¹	R5 Type V distribution	277, 347, TB ⁶	SF Single fuse (120V, 277V, 347V)
KB_6 50S			DF Double fuse (208V, 240V)
KB_6 70S			CR Enhanced corrosion resistance
Metal Halide			H24 24" overall height
KB_6 50M ²			H30 30" overall height
KB_6 70M ²			H36 36" overall height
Incandescent			FD Festoon outlet
KB_6 I ^{1,3}			FG Festoon outlet with duplex ground fault receptacle
8" Bollards:			PC Polycarbonate lens (6" only) ⁷
High Pressure Sodium	Optional Cylindrical Reflector		SCL Scribed lens ⁷
KB_8 50S	CYA Specular Alzak		CSA CSA Certified
KB_8 70S	CYB Black Alzak		
KB_8 100S	CYG Gold Alzak		Accessories (shipped separately)
KB_8 150S	CYF Flat black		R6S Half-shield (6" round)
Metal Halide			R8S Half-shield (8" round) ⁷
KB_8 70M ²			
KB_8 100M ²			
Incandescent			
KB_8 I ^{1,4}			
Compact Fluorescent ⁵			
KB_8 22DTT			
KB_8 28DTT			
KB_8 26TRT			
KB_8 32TRT			

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.
- Not available with LV option, available in 6" units only.



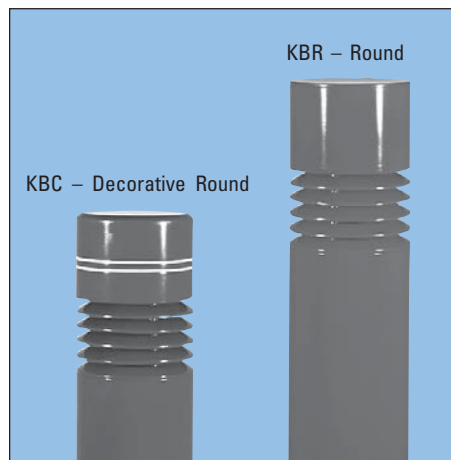
Dimensions are shown in inches (centimeters) unless otherwise noted.

	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)

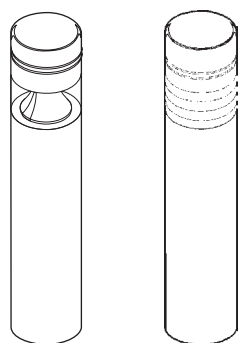
*Also available in 24" (H24), 30" (H30) and 36" (H36)

KBC

KBR

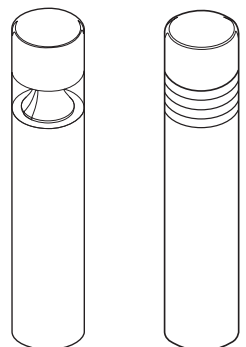


Shown with optional louvers.



KBC6

KBC8-LV



KBR6

KBR8-LV

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

	KBC6/KBR6	KBC8/KBR8
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).

Round Bollards

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 overall height standard. Flush-fitting lens is ½", clear, 100% virgin acrylic. All exposed hardware is tamper-resistant stainless steel. Four ½" x 11" anchor bolts with double nuts/washers and 4½"-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-aluminum 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.

Ordering Information

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

Designation	Reflector	Voltage	Options/Accessories
6" Bollards:	Standard Flared Cone	120, 208, 240, 277, 347, TB ⁶	
High Pressure Sodium	R5 Type V distribution		
KB_6 35S ¹			
KB_6 50S			
KB_6 70S			
Metal Halide	Optional Cylindrical Reflector		
KB_6 50M ²			
KB_6 70M ²			
Incandescent			
KB_6 I ^{1,3}			
8" Bollards:			
High Pressure Sodium	CYA Specular Alzak		
KB_8 50S	CYB Black Alzak		
KB_8 70S	CYG Gold Alzak		
KB_8 100S	CYF Flat black		
KB_8 150S			
Metal Halide			
KB_8 70M ²			
KB_8 100M ²			
KBR8 175M ^{2,4}			
Incandescent			
KB_8 I ^{1,5}			
Compact Fluorescent ⁴			
KB_8 22DTT			
KB_8 28DTT			
KB_8 26TRT			
KB_8 32TRT			

Options/Accessories
<u>Options (shipped installed)</u>
SF Single fuse (120V, 277V, 347V)
DF Double fuse (208V, 240V)
CR Enhanced corrosion resistance
H24 24" overall height
H30 30" overall height
H36 36" overall height
FD Festoon outlet
FG Festoon outlet with duplex ground fault receptacle
PC Polycarbonate lens (6" only) ⁷
SCL Scribed lens ⁷
CSA CSA certified
For optional Architectural Colors, see page 485.
<u>Accessories (shipped separately)</u>
R6S Half-shield (6" round)
R8S Half-shield (8" round) ⁷

NOTES:

- 120V only.
- Use coated lamp
- 116W/TS, 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.
- Not available with LV option, available in 6" units only.

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 $\frac{3}{8}$ " OD to 3" OD poles or tenons. Set screws anchor the fixture firmly.

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



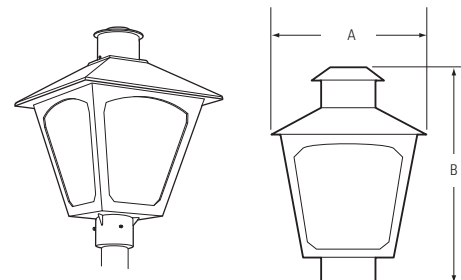
Example: **TCL 100S R2A 120 LPI**

Ordering Information

Series	Wattage/Lamp Source	Distribution	Voltage	Ballast Options	Options
TCL					<u>Shipped installed in fixture</u>
	35S¹	R2A Type II roadway, acrylic lens	120, 208, 240, 277, 480, TB², TB1², TB2², TB3², 120/240³, 240/480⁴	(blank) Standard ballast (see above)	LPI Lamp included
	50S¹	R3A Type III asymmetric, acrylic lens		RHP Reactor high power factor ⁵	SF Single fuse (120V, 277V, n/a TB)
	70S	R5A Type V symmetric, acrylic lens		50HZ 50 hertz. Consult factory.	DF Double fuse (208V, 240V, 480V, n/a TB)
	100S	R2P Type II roadway, polycarbonate lens		XHP High reactance, high power factor ⁵	PER NEMA twist-lock receptacle only (photocontrol not included).
	150S	R3P Type III asymmetric, polycarbonate lens			PE1 NEMA twist-lock PE (120V, 208V, 240V)
	175M	R5P Type V symmetric, polycarbonate lens			PE4 NEMA twist-lock PE (480V)
	175MV				PE7 NEMA twist-lock PE (277V)

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

EPA	1.6 ft ² (0.15m ²)
Height	25 $\frac{5}{8}$ " (57.5)
Square	16 $\frac{1}{4}$ " (41.3)
Weight	28 lbs. (12.7 kg)



NOTES:

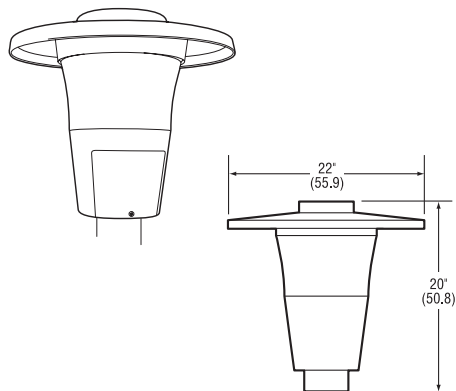
- 1 Only available with 120V.
- 2 Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277 volt. Others are; 1 = 120V; 2 = 208V; and 3 = 240V.
- 3 MV only. Prewired to 120V.
- 4 MV only. Prewired to 240V.
- 5 HPS only.

TPA

NEW


Ordering Information

Series	Wattage/Lamp source	Distribution	Voltage	Ballast options	Options
TPA					
	35S ¹	R2A Type II roadway, acrylic lens	120	(blank) Standard ballast (see above)	<u>Shipped installed in fixture</u>
	50S ¹	R3A Type III asymmetric, acrylic lens	208		LPI Lamp included
	70S		240	RHP⁶ Reactor high power factor	SF Single fuse (120V, 277V, n/a TB)
	100S	R5A Type V symmetric, acrylic lens	277	50HZ 50 hertz. Consult factory.	DF Double fuse (208V, 240V, 480V, n/a TB)
	150S		480		PER NEMA twist-lock receptacle only (photocontrol not included).
	250S	R2P Type II roadway, polycarbonate lens	TB³	XHP High reactance, high power factor. ⁶	PE1 NEMA twist-lock PE (120V, 208V, 240V)
	400S ²	R3P Type III asymmetric, polycarbonate lens	TB1³		PE4 NEMA twist-lock PE (480V)
	175M	R5P Type V symmetric, polycarbonate lens	TB2³		PE7 NEMA twist-lock PE (277V)
	250M		TB3³		
	400M ²	R2G Type II roadway, glass lens	120/240⁴		
	175MV	R3G Type III asymmetric, glass lens	240/480⁵		
	250MV	R5G Type V symmetric, glass lens			
	400MV ²				



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

EPA:	1.3 ft ² (0.12m ²)
Height:	20" (50.8)
Outside Diameter:	22" (55.9)
Weight:	41 lbs. (18.6 kg)

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 2³/₈" to 3" OD.

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

Example: TPA 100S R2A 120 LPI

NOTES:

- Only available with 120V.
- Not available with acrylic or polycarbonate lens; must order with either R2G, R3G or R5G.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). TB prewired to 277 volt. Others are; 1=120V; 2=208V; and 3=240V.
- MV only. Prewired to 120 volt.
- MV only. Prewired to 240 volt.
- HPS only.

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 ¾" 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 protec-

tion. Recessed concrete cast in place is standard; optional mountings available.

Optics – Reflectors are anodized, hydro-formed 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.

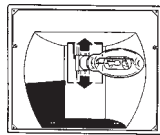
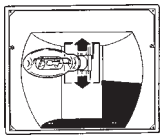
Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations.



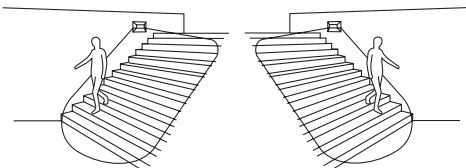
Example: **KL 50S A 120 QRS**

Ordering Information

Designation	Distribution	Voltage	Options/Accessories	
<u>High Pressure Sodium</u>		120	<u>Options (shipped installed)</u>	<u>Architectural colors (optional)</u>
KL 50S	A Area	208²	SF Single fuse (120V, 277V)	DDB Dark bronze (standard)
KL 70S	D Directional	240⁵	QRS Quartz restrike system	DBL Black
KL 100S¹		277	PE Photoelectric cell (only available with BBW, BBF)	DNA Natural aluminum
<u>Metal Halide</u>		347	EC Emergency circuit	DWH White
KL 70M		TB⁶	BBS Backbox (stud wall mount)	
KL 100M¹			BBW Backbox (surface wall mount)	
<u>Incandescent</u>			BBF Backbox (flat horizontal surface mount)	
KL I^{1,2,3,4}			BBR Recessed (ceiling, soffit mount)	
			CSA CSA Certified	



Bi-adjustable socket assembly KL "D" distribution



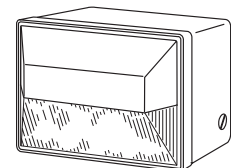
Left or right directional light distribution may be selected in the field.

NOTES:

- For inverted mounting application, maximum wattage is 70W.
- 150W A21 max in A distribution.
- 100W A21 max in D distribution
- 120V only.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada (120V, 277V, 347V; ships a 120V/347V).

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

	KL
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	15 lbs (7 kg)



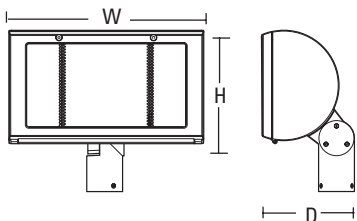
KFL



Ordering Information

Designation	Distribution	Voltage
<u>High Pressure Sodium</u>	SP Spot	120
KFL2 70S	BP Horiz. flood ³	208⁴
KFL2 100S	RN Horiz. spot, narrow	240⁴
KFL2 150S		277
KFL3 250S	RM Horiz. spot, medium	347
KFL3 400S		480
<u>Metal Halide</u>	RW Horiz. spot, wide	TB⁵
KFL2 70M	HPN Vertical flood, narrow	
KFL2 100M		
KFL2 150M	HPM Vertical flood, medium	
KFL2 175M		
KFL3 200M¹	HPW Vertical flood, wide	
KFL3 250M		
KFL3 320M¹	FT Forward throw	
KFL3 350M¹		
KFL3 400M²		

Wattage	Ballast	Lamp Type	Beam Spread H°xV°	NEMA Dist.
<u>High Pressure Sodium</u>				
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
<u>Metal Halide</u>				
175	SP	CWA	ED17 27x15	2x1
175	HPW	CWA	ED17 147x127	7x6
400	SP	CWA	BT28 42x17	3x1
400	HPW	CWA	BT28 146x140	7x7



Architectural Floodlights

Intended Use

For landscape and facade lighting.

Features

Housing – Welded, extruded body with cast end caps. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Other architectural colors available.

Lens Frame – Cast aluminum door frame is hinged and secured by stainless steel fasteners. Closed-cell silicone gasket prevents entrance of contaminants.

Lens – Clear, impact-resistant, tempered glass lens.

Mounting – Standard mount is two-piece, heavy-duty, cast-aluminum swivel with integral wiring compartment (pictured). Swivel fits over standard 1½" (1.9" OD) to 2" (2.38" OD) tenon. Painted steel yoke with 3-foot, 16/3 SEO cable or threaded knuckle mount are optional.

Optics – Anodized aluminum reflectors; segmented, specular or hammertone finish.

Electrical – 150W and below utilizes a high-reactance, high power factor ballast. 175W and above utilizes a constant-wattage autotransformer ballast. Both ballast are copper wound and 100% factory tested. Optional pulse start ballast available.

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

Listings – UL Listed (standard). CSA Certified or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with standard IEC 529.

Example: KFL2 70S HPN 120 SF LPI

Optional mounting
<u>Installed</u>
YK Yoke mount
THK Threaded knuckle mount
<u>Shipped separately</u>
KFLSTM Stanchion mount
KFLSTMTHK Stanchion mount for THK option ⁶
TM Tenon base mount
KFLWMA Wall mount arm
KFLWMATHK Wall-mount arm for THK option ⁶
MP Mounting plate ⁷
FCRA Crossarm adapter ⁷
TS Tenon slipfitter ⁷
KFLTMB Twin mounting bar
KFLTMBTHK Twin mounting bar for THK option ⁶
AJB Architectural J-box for THK option ⁶
KFLTBS Triangular base

Options/Accessories
<u>Installed</u>
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)
QRS Quartz restrike system (KFL3 only, 100W max.) (lamp not included)
EC Emergency circuit
CR Enhanced corrosion resistance
CFRO Color lens/rose
CFBL Color lens/blue
SCWA Super CWA pulse start ballast (n/a with HPS, 70M, 100M or 175M)
LPI Lamp included as standard
L/LP Less lamp
CSA CSA Certified
NOM NOM Certified (consult factory)

For optional architectural colors, see page 485.

Shipped separately⁸

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

NOTES:

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

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

	KFL2	KFL3
EPA	1.3 ft ² (.12 m ²)	2.0 ft ² (.19 m ²)
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 5/16 (42.9)
Max. weight	29 lbs (13.1 kg)	44 lbs (19.9 kg)

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. (For 50 hertz availability, consult factory.)

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

Socket – Porcelain, horizontally or vertically oriented, mogul-base socket with copper alloy, nickel-plated screw shell and center contact.

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 in accordance with standard IEC 529.



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

Ordering Information

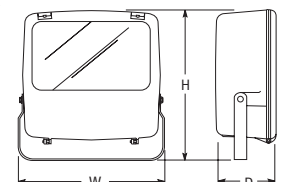
Designation		Distribution						Voltage	Options/Accessories				
<u>High Pressure Sodium</u>		Horizontal		Vertical				120	<u>Installed</u>		<u>Accessories / shipped separately</u>		
TFA 250S	RN TA	RB	RC	RE	TA2	RM	208 ²	SF	Single fuse (120V, 277V, 347V) ⁵	TFAWG	Wireguard		
TFA 400S	RN TA	RB	RC	RE	TA2	RM	240 ²	DF	Double fuse (208, 240, 480V) ⁵	TFAVG	Vandal guard		
TFA 750S	RN TA	RB	—	—	TA2	RM	277	EC	Emergency circuit ^{6,7}	TFAUV	Upper visor ¹²		
TFA 1000S	RN TA	RB	—	—	TA2	RM	347	QRS	Quartz restrike system ^{6,7}	TFAFV	Full visor ¹²		
<u>Metal Halide</u>							480 ²	QRSTD	Quartz time delay ^{6,7}	TFABV	Bottom visor		
TFA 250M	RN TA	RB	RC	RE	TA2	RM	TB ³	CR	Enhanced corrosion resistance	FTS	Tenon slipfitter (2 ³ / ₈ " to 2 ⁷ / ₈ " OD tenon) (yoke only)		
TFA 320M ¹	RN TA	RB	RC	RE	TA2	RM	TBV ⁴	CRT	Non-stick protective coating ⁸	FCRA	Crossarm adapter (horizontal)		
TFA 350M ¹	RN TA	RB	RC	RE	TA2	RM		PER	NEMA twist-lock receptacle ⁹	FCRA45	Crossarm adapter (45° from horizontal)		
TFA 400M	RN TA	RB	RC	RE	TA2	RM		LS	Lamp support (standard w/ 1000W, TA and RN)				
TFA 750M ¹	RN TA	—	—	—	—	—		LPI	Lamp shipped as standard	FPMB	Wood pole/pipe/wall-mounting bracket (includes FCRA)		
TFA 1000M	RN TA	RB	—	RE	TA2	RM		L/LP	Less lamp				
Lamp/Fixture/Distribution Data													
Wattage	Ballast	Lamp Type	Beam Spread H° x V°	NEMA Dist.									
<u>High Pressure Sodium (mog/clear)</u>													
400	TA	CWA	ET18	140x134	7x7								
400	RN	CWA	ET18	127x30	6x3								
400	TA2	CWA	ET18	138x112	7x6								
400	RB	CWA	ET18	126x106	6x6								
1000	TA	CWA	E25	139x133	7x7								
1000	RN	CWA	E25	127x21	6x2								
1000	TA2	CWA	E25	144x119	7x6								
1000	RB	CWA	E25	128x114	6x6								
<u>Metal Halide (mog/clear)</u>													
400	TA	CWA	BT37	143x133	7x7								
400	RN	CWA	BT37	129x35	6x3								
400	TA2	CWA	BT37	135x111	7x6								
400	RB	CWA	BT37	124x100	6x6								
1000	TA	CWA	BT56	146x135	7x7								
1000	RN	CWA	BT56	130x45	6x3								
1000	TA2	CWA	BT56	144x119	7x6								
1000	RB	CWA	BT56	126x109	6x6								

NOTES:

- Must be ordered with SCWA.
- Not available in Canada in 1000W metal halide.
- 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).
- Not available in multi-tap ballast.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- Black finish only.
- Photocell not included.
- Yoke-mount only.
- Not available with TBV.
- Field modification required unless ordered with fixture.
- Requires IS or FTS slipfitter.

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

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



TFL

Contour®



Contour 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, hydroformed, 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.

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

Socket – Glazed 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.

Listings – UL Listed (standard) (ambient temperature 25°C for 320W & above and 200S, 40°C for 250W and below). CSA Certified or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with standard IEC 529.

Ordering Information

Example: TFL 400S RA2 TB LPI

Designation	Distribution	Voltage	Options/Accessories	
VERTICAL LAMP			Installed	Shipped separately
<u>High Pressure Sodium</u>			SF Single fuse (120V, 277V, 347V) ⁷	WG Wireguard ¹⁴
TFL 70S	TA2 (7x6)	208 ³	DF Double fuse (208V, 240V, 480V) ⁷	VG Vandal guard ¹⁴
TFL 100S	TA2	240 ³	EC Emergency circuit ^{8,9}	UV Upper visor ¹⁴
TFL 150S	TA2	277	QRS Quartz restrike system ^{8,9}	FV Full visor ¹⁴
TFL 200S	TA2	347	CR Enhanced corrosion resistance	FTS Tenon slipfitter (2 ³ / ₈ " to 2 ⁷ / ₈ " OD tenon)
<u>Metal Halide</u>			CRT Non-stick protective coating ¹⁰	FRWB Radius wall bracket ¹⁵
TFL 150M	TA2	480 ⁴	CRT Non-stick protective coating ¹⁰	FSAB Steel angle bracket
TFL 175M	TA2	TB ⁵	PER NEMA twist-lock receptacle ¹¹	FCRA Crossarm adapter(horizontal)
TFL 200M ¹	TA2	TBV ⁶	LS Lamp support (mogul socket only)	FCRA45 Crossarm adapter (45° from horizontal)
TFL 250M	TA2		IS Integral slipfitter(2 ³ / ₈ " OD max. tenon)	FPMB Wood pole/pipe/wall-mounting bracket (includes FCRA)
HORIZONTAL LAMP			CF Charcoal filter	SC Shorting cap
<u>High Pressure Sodium</u>			C62 2' 16-3 SEO cord prewired ¹²	TM Tenon mount ¹⁵
TFL 250S	RA2 (7x6)		C42 2' 14-3 SEO cord prewired ¹²	
TFL 400S	RA2		C22 2' 12-3 SEO cord prewired ¹²	
<u>Metal Halide</u>			CSA CSA Certified ¹³	
TFL 200M ¹	RA2		NOM NOM Certified (consult factory)	
TFL 250M	RA2		SCWA Super CWA pulse start ballast (n/a HPS, or 175M)	
TFL 320M ¹	RA2		LPI Lamp included as standard.	
TFL 350M ¹	RA2		L/LP Less lamp	
TFL 400M ²	RA2			

NOTES:

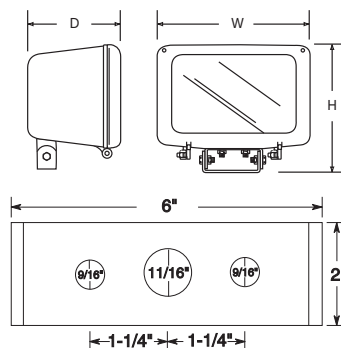
- Must be ordered with SCWA.
- Requires T-15, ED or BT28 reduced jacket lamp.
- Consult factory for availability in Canada.
- Not available in Canada.
- Optional 5-tap ballast (120V, 208V, 240V, 277V). (In Canada 120V, 277V, 347V; ships as 120V/347V).
- Optional 5-tap ballast (120, 208, 240, 277, 480V)
- Not available with multi-tap ballast.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- Black finish only.
- Photocell not included.
- Yoke mount only.
- Not available with TBV.
- Field modification required unless ordered with fixture.
- Requires IS or FTS slipfitter.

Lamp/Fixture/Distribution Data (Vertical Lamp)

Wattage	Ballast	Lamp Type	Beam Spread H° x V°	NEMA Dist.
<u>High Pressure Sodium</u> (mog/clear)				
100	TA2 HX-HPF	E17	148 x 123	7 x 6
150	TA2 HX-HPF	E17	155 x 119	7 x 6
250	RA2 CWA	BT28	143 x 111	7 x 6
400	RA2 CWA	BT28	143 x 111	7 x 6
<u>Metal Halide</u> (mog/clear)				
175	TA2 CWA	BT28	147 x 122	7 x 6
250	RA2 CWA	BT28	140 x 104	7 x 6
400	RA2 CWA	BT28	145 x 100	7 x 6

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

TFL	
EPA	1.3ft ² (.12 m ²)
Width	15 ³ / ₄ (40.0)
Depth	6 ¹ / ₈ (15.6)
Height	16 ¹ / ₈ (40.9)
Weight	27 lbs (11.8 kg)



Contour Specification Medium Floodlights

Floodlighting

TFR

Contour®

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.

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

Socket – 150M is medium base. Glazed porcelain, horizontally oriented, mogul-base with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated.

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 in accordance with standard IEC 529.



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

Ordering Information

Designation	Distribution	Voltage	Options/Accessories	
High Pressure			Installed	Shipped separately
TFR 150S	TA (7x6) (n/a 150S)	120	SF Single fuse (120V, 277V, 347V) ⁶	TFRWG Wireguard ¹³
TFR 250S	RB (6x6)	208²	DF Double fuse (208V, 240V, 480V) ⁶	TFRVG Vandal guard ¹³
TFR 400S	RC (5x5)	240²	EC Emergency circuit ^{7,8}	TFRUV Upper visor ¹³
Metal Halide			QRS Quartz restrike system ^{7,8}	TFRFV Full visor ¹³
TFR 150M		347	CR Enhanced corrosion resistance	FRWB Radius wall bracket ¹⁴
TFR 175M		480³	CRT Non-stick protective coating ⁹	FSAB Steel angle bracket
TFR 200M¹		TB⁴	PER NEMA twist-lock photoelectric receptacle ¹⁰	SC Shorting cap for PER option
TFR 250M		TBV⁵	IS Integral slipfitter (2 ³ / ₈ " O D tenon)	FTS Tenon slipfitter (2 ³ / ₈ " to 2 ⁷ / ₈ " OD tenon) ¹¹
TFR 320M¹			LS Lamp support	FCRA45 Crossarm adapter (horizontal)
TFR 350M¹			LPI Lamp included as standard	FCRA Crossarm adapter 45° from horizontal
TFR 400M			L/LP Less lamp	FPMB Wood pole/pole/wall mounting bracket (includes FCRA)
			C22 2' 12-3 SEO cord pre-wired ¹¹	TM Tenon mount ¹⁴
			C42 2' 14-3 SEO cord pre-wired ¹¹	EY Extended yoke
			C62 2' 16-3 SEO cord pre-wired ¹¹	
			CF Charcoal filter	
			CSA CSA Certified ¹²	
			NOM NOM Certified (consult factory)	
			SCWA Super CWA pulse start ballast (n/a HPS or 175M)	

Lamp/Fixture Data

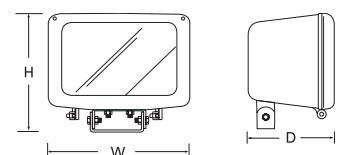
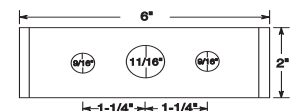
Wattage	Ballast	Lamp Type.	Beam Spread H° x V°	NEMA Dist.
High Pressure Sodium (mog/clear)				
150 RB	XHP	E17	114 X 107	6 x 6
150 RC	XHP	E17	100 X 92	5 x 5
250 TA	CWA	ET18	132 X 118	7 x 6
250 RB	CWA	ET18	110 X 104	6 x 6
250 RC	CWA	CWA	99 x 97	5 x 5
400 TA	CWA	ET18	132 X 118	7 x 6
400 RB	CWA	ET18	110 X 104	6 x 6
400 RC	CWA	ET18	99 X 97	5 x 5
Metal Halide (mog/clear)				
175 TA	CWA	BT28	132 x 111	7 x 6
175 RB	CWA	BT28	121 x 91	6 x 5
175 RC	CWA	BT28	100 x 90	5 x 5
250 TA	CWA	BT28	132 x 111	7 x 6
250 RB	CWA	BT28	121 x 91	6 x 5
250 RC	CWA	BT28	100 x 90	5 x 5
400 TA	CWA	BT37	138 x 119	7 x 6
400 RB	CWA	BT37	124 x 107	6 x 6
400 RC	CWA	BT37	96 x 100	5 x 5

NOTES:

- Must be ordered with SCWA.
- Consult factory for availability in Canada.
- Not available 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).
- Not available in multi-tap ballast.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- Black finish only.
- Photo-cell not included.
- Yoke mounting only.
- Not available with TBV.
- Field modification required unless ordered with fixture.
- Requires IS or FTS slipfitter.

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

TFR
EPA 1.3ft² (12m²)
Height 12³/₄ (32.4)
Width 17⁵/₈ (44.8)
Depth 10³/₄ (27.3)



TFM

Contour®



Contour Specification Mini Floodlights

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. Medium-base lamp is included.

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 1029 listed. Electrical components mounted to the cast-aluminum housing for maximum heat-dissipation.

Installation – Die-cast aluminum ½" NSPM threaded mounting knuckle is standard. Steel painted mounting yoke optional. Above-horizontal aiming capability standard. External screws treated for corrosion resistance.

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.

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 in accordance with standard IEC 529.

Ordering Information

Example: TFM 175M RB 120 LPI

Designation	Distribution	Voltage
High Pressure Sodium	TA (7x6) ³	120
TFM 35S ¹	RB (6x6)	208⁴
TFM 50S ²	RG (3x3)	240⁴
TFM 70S		277
TFM 100S		480⁵
TFM 150S		TB⁶
Metal Halide		TBV⁷
TFM 50M		MVOLT⁸
TFM 70M		
TFM 100M		
TFM 150M		
TFM 175M		
Compact Fluorescent		
TFM 13DTT		
TFM 18DTT		
TFM 26DTT		
TFM 32TRT		
TFM 42TRT		

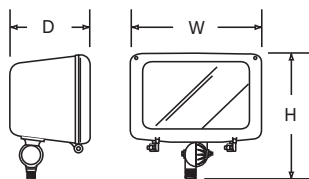
Options/Accessories			
Installed			
SF	Single fuse (120V, 277V, 347V) ^{9,10}	LPI	Lamp included as standard
DF	Double fuse (208V, 240V, 480V) ^{9,10}	L/LP	Less lamp
GMF	Internal slow-blow fuse (CF only)	YK	Yoke mounting
CR	Enhanced corrosion resistance	C62	2' 16-3 SEO cord pre-wired
CRT	Non-stick protective coating ¹¹	C42	2' 14-3 SEO cord pre-wired
PE	Photocell ⁹	C22	2' 12-3 SEO cord pre-wired
		CSA	CSA Certified ¹²
		NOM	NOM Certified (consult factory)
		SCWA	Super CWA pulse start ballast (only available in 150M with TA distribution only)
			Shipped separately
		TFMWG	Wireguard
		TFMVG	Vandal guard
		TFMUV	Upper visor
		TFMFV	Full visor
		TFMFS	Tenon slipfitter (2 3/8" OD tenon) (fits on 1/2" knuckle)
		TM	Tenon mount ¹⁴

Lamp/Fixture/Ballast Data¹³

Wattage	Lamp Ballast	Beam Spread Type	NEMA H"xV"	Dist.
High Pressure Sodium (med/clear)				
70	RB	RNP or XHP	E17	94 x 104
70	RG	RNP or XHP	E17	42 x 35
70	TA	RNP or XHP	E17	131 x 103
150	RB	RNP or XHP	E17	88 x 95
150	RG	RNP or XHP	E17	57 x 65
150	TA	RNP or XHP	E17	131 x 103
Metal Halide (med/clear)				
100	RB	XHP	E17	83 x 108
100	RG	XHP	E17	58 x 60
100	TA	XHP	E17	128 x 107
175	RB	CWA	ED17	97 x 105
175	RG	CWA	ED17	42 x 35
Fluorescent				
26DTT	RB	HPF-Electronic	T4	125 x 132
42TRT	RB	HPF-Electronic	T4	120 x 122

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

	TFM
EPA	.5ft ² (.05m ²)
Width	10.6 (26.9)
Depth	6.9 (17.5)
Height	10 1/2 (26.7)
Weight	15 lbs (6.8 kg)



NOTES:

- 120V only.
- 120V, 277V only
- TA distribution not available with 175M, compact fluorescent lamps, TBV, or fusing.
- Consult factory for availability in Canada.
- Not available 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).
- Optional multi-volt electronic ballast capable of operating from 120V-277V
- Not available in multi-tap ballast.
- Not available with TA reflector.
- Black finish only.
- Not available with TBV.
- Other ballasts available. Consult factory.
- Requires TFMFS.

Intended Use

For signs, landscaping and commercial or residential building facades.

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

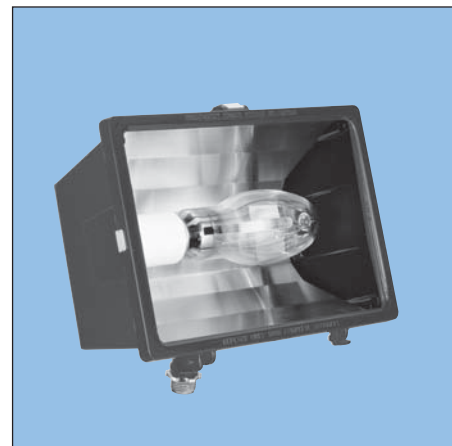
Features

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. Standard finish is bronze polyester powder.

Installation – Adjustable mounting knuckle with ½" NPS threaded stem mounts to standard outlet boxes.

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.



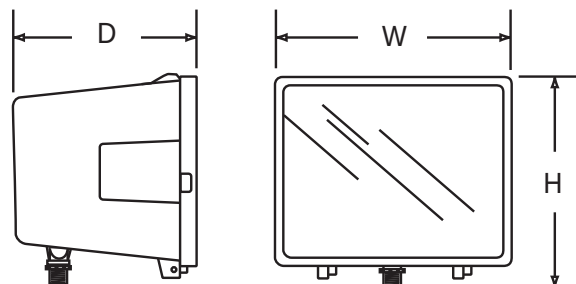
Ordering Information

Example: **TFS 50S 120 LPI**

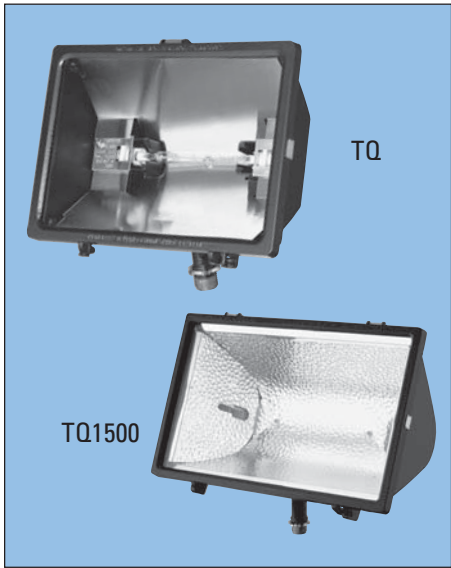
Designation	Voltage	Options
<u>High Pressure Sodium</u>	120	LPI Lamp included as standard
TFS 50S		
TFS 70S		
TFS 100S		
TFS 150S		
<u>Metal Halide</u>		
TFS 70M		

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

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



TQ/TQE



General Purpose Quartz 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. TQ has a die-cast aluminum door frame, TQE lens attaches via tool-less clips. TQ1500 door frame is die-cast aluminum with tool-less latch closure. Standard finish bronze polyester powder.

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

Optics – Anodized aluminum reflector with high efficiency and wide beamspread. Tempered glass lens with high temperature gasketing. 500W models include double-

ended quartz 500W lamp. 1500W models do not include double-ended quartz 1500W lamp.
Listings – UL Listed to U.S. and Canadian safety standards. UL/C-UL listed for wet locations.

Ordering Information

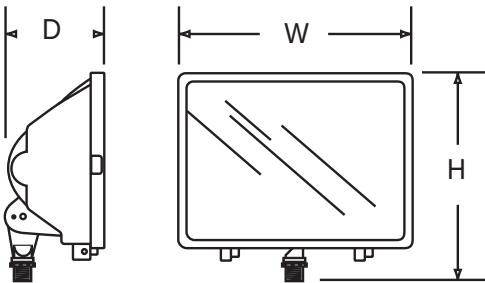
Designation	Voltage	Options
Quartz TQ 1500	Determined by lamp (277V maximum)	L/LP Lamp NOT included (must be supplied by others.)

Example: TQ 1500 L/LP

Ordering Information

Designation	Voltage	Options
Quartz TQE 500 TQ 500	120	(blank) Bronze (500W only) DWH White (500W only) LPI Lamp included (500W models)

Example: TQE 500 120 LPI



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

	TQ 1500	TQ/TQE 500
Width	13 (33.0)	8 7/8 (22.5)
Depth	6 (15.2)	3 1/2 (8.9)
Height	8 1/4 (21.0)	6 1/2 (16.5)
Max. weight	6 lbs (2.72 kg)	2.07 lbs (.93 kg)

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 with tool-less latch closure. Standard finish bronze polyester powder.

Installation – Adjustable mounting knuckle with ½" NPS threaded stem. Mounts to standard outlet boxes.

Optics – Anodized aluminum reflector with high efficiency and wide beamspread. Tempered glass lens with high temperature gasketing. 13W twin-tube compact fluorescent lamps.

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

NEW



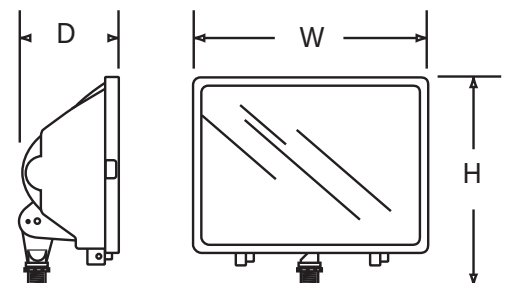
Ordering Information

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

Designation	Voltage	Options
TCF 13DTT	120	LPI Lamp included
TCF 2/13DTT		

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

	TCF
Width	8 7/8 (22.5)
Depth	3 1/2 (8.9)
Height	6 1/2 (16.5)
Max. weight	2.07 lbs (.93 kg)



HFA



Ordering Information

Designation	Distribution
<u>High Pressure Sodium</u>	TA (7x7)
HFA 250S	RN (6x3)
HFA 400S	
<u>Metal Halide</u>	
HFA 250M	
HFA 400M	

NOTES:

- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Black finish only.

Hazardous Location Large Floodlights

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

Construction – 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.

Finish – Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Porcelain, horizontally oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rated. TA and RN distributions are available.

Computer-designed, precision formed reflectors for high performance and efficiency. Premium one-piece silicone gasket seals optical chamber to inhibit entrance of contaminants.

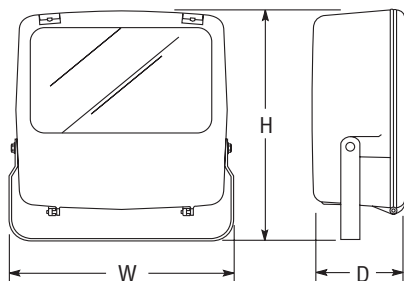
Electrical – Ballast is HPF constant-wattage autotransformer, copper wound and 100% factory tested. Electrical components are mounted to cast aluminum housing, promoting maximum heat dissipation. Accessible through front bezel.

Installation – 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 in accordance with standard IEC 529.

Example: **HFA 400M TA 120 LPI**

Voltage	Options
120	Installed
208¹	CR Enhanced corrosion resistance
240¹	CRT Non-stick protective coating ³
277	LS Lamp support
347	LPI Lamp included as standard
480¹	L/LP Less lamp
TB²	TP Tamperproof latches
	CSA CSA Certified
	DNA Architectural color – natural aluminum
	DBL Architectural color, black
	DMB Architectural color, medium bronze
	DGC Architectural color, charcoal gray
	DTG Architectural color, tennis green
	DSS Architectural color, sandstone
	DWH Architectural color, white
	Architectural textured colors available. Consult your Lithonia Lighting representative.



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

	HFA
EPA	2.6 ft ² (.24 m ²)
Width	23 3/4 (60.3)
Depth	9 3/4 (24.8)
Overall height	24 (61) (includes yoke)
Weight	65 lbs (29.5 kg)

Temperature Codes

Description	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

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

Construction – Compact 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.

Finish – Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Porcelain, horizontally oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rat-

ed. RA2 distribution is available. Computer-designed, precision-formed reflector for high performance and efficiency. Premium one-piece silicone gasket seals optical chamber to inhibit entrance of outside contaminants. 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 the cast aluminum housing, promoting maximum heat dissipation. Accessible through front bezel.

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 in accordance with standard IEC 529.



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

Ordering Information

Designation	Distribution	Voltage	Options	
<u>Metal Halide</u>	RA2 (7x6)	120	<u>Installed</u>	DGC Architectural color, charcoal gray
HFL 400M¹		208²	CR Enhanced corrosion resistance	DTG Architectural color, tennis green
<u>High Pressure Sodium</u>		240²	CRT Non-stick protective coating ⁴	DNA Architectural color, natural aluminum
HFL 400S		277	LS Lamp support	DBL Architectural color, black
		347	LPI Lamp included as standard	DMB Architectural color, medium bronze
		480²	L/LP Less lamp	DSS Architectural color, sandstone
		TB³	CSA CSA Certified	DWH Architectural color, white

Architectural textured colors available. Consult your Lithonia Lighting representative.

Temperature Codes

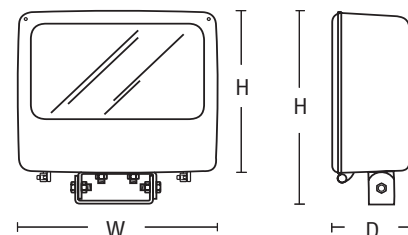
Description	Wattage	T-Code or Temp.	Max. Internal Temp.
HFL	400M	T1	433°C
HFL	400S	T1	426°C

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

	HFL
EPA	1.3 ft ² (.12 m ²)
Width	15 ³ / ₄ (40.0)
Depth	6 ¹ / ₈ (15.5)
Height	16 ¹ / ₈ (40.9) (includes yoke)
Weight	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.



HFR



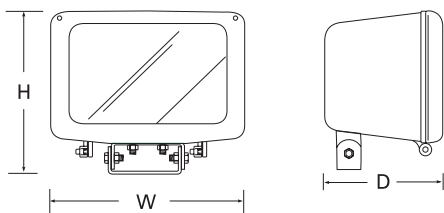
Ordering Information

Designation	Distribution	Voltage	Options	
<u>Metal Halide</u>	TA (7x6)	120	<u>Installed</u>	DNA Architectural color, natural aluminum
HFR 250M	RB (6x6)	208¹	CR Enhanced corrosion resistance	DBL Architectural color, black
HFR 400M	RC (5x5)	240¹	CRT Non-stick protective coating ³	DMB Architectural color, medium bronze
<u>High Pressure Sodium</u>		277	LS Lamp support	DGC Architectural color, charcoal gray
HFR 150S		347	LPI Lamp included as standard	DTG Architectural color, tennis green
HFR 250S		480¹	L/LP Less lamp	DSS Architectural color, sandstone
HFR 400S		TB²	CSA CSA Certified	DWH Architectural color, white

Architectural textured colors available. Consult your Lithonia Lighting representative.

NOTES:

- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Black finish only.



Hazardous Location Medium Floodlights

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

Construction – Compact 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.

Finish – Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Porcelain, horizontally oriented mogul-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V, 4KV pulse rat-

ed. TA, RB and RC distributions are available. Computer-designed, precision-formed reflector for high performance and efficiency. Premium one-piece silicone gasket seals optical chamber to inhibit entrance of outside contaminants. **Does not require use of reduced-size lamp.**

Electrical – Ballast is HPF constant-wattage autotransformer, copper wound and 100% factory tested. Electrical components mounted to cast aluminum housing, promoting maximum heat dissipation. Accessible through front bezel.

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 in accordance with standard IEC 529.

Example: **HFR 400M TA 120 LPI**

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

	<i>HFR</i>
EPA	1.3 ft ² (.12 m ²)
Width	17 ⁵ / ₈ (44.8)
Depth	10 ³ / ₄ (32.4)
Height	13 (33.0) (includes yoke)
Weight	29 lbs (13.2 kg)

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

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

Construction – 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.

Finish—Standard finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Porcelain, horizontally oriented medium-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V, 4KV pulse rated.

RB and RG distributions are available. Computer-designed, precision-formed reflectors for high performance and efficiency. Premium one-piece silicone gasket seals optical chamber to inhibit entrance of contaminants.

Electrical – Ballast is HPF constant-wattage autotransformer, copper wound and 100% factory tested. Electrical components mounted to cast aluminum housing, promoting maximum heat dissipation. Accessible through front bezel.

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 in accordance with standard IEC 529.



Ordering Information

Designation	Distribution	Voltage	Options
<u>Metal Halide</u>	(Select one)	<u>High Pressure Sodium</u>	<u>Installed</u>
HFM 175M	RB (6x6)	120	CR Enhanced corrosion resistance
<u>High Pressure Sodium</u>	RG (3x3)	208^{1,2}	CRT Non-stick protective coating ⁵
HFM 100S		240^{1,2}	LPI Lamp included as standard
HFM 150S		277¹	L/LP Less lamp
		347¹	CSA CSA Certified
		480^{1,3}	DNA Architectural color, natural aluminum
		120/277^{1,3}	DBL Architectural color, black
		120/347¹	DMB Architectural color, medium bronze
		TB⁴	DGC Architectural color, charcoal gray
		<u>Metal Halide</u>	DTG Architectural color, tennis green
		120	DSS Architectural color, sandstone
		208³	DWH Architectural color, white
		240³	
		277	
		347	
		480³	
		120/277³	
		120/347	
		TB⁴	

NOTES:

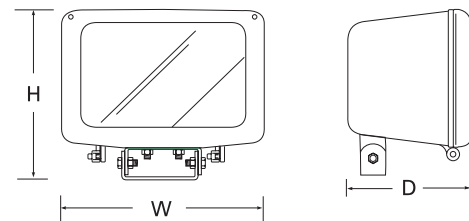
- HPS wattages require a high reactance, high power factor ballast (XHP).
- 208 & 240V HPS in Canada, a constant wattage isolated ballast CWI is standard.
- Not available in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Black finish only.

Temperature Codes

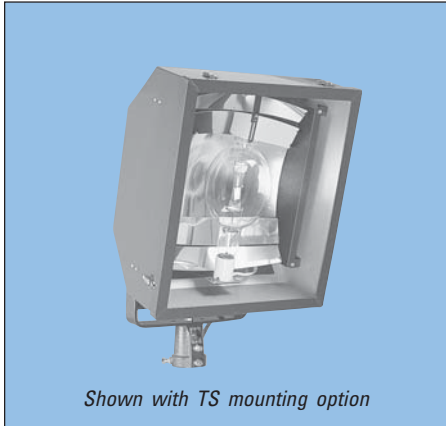
Description	Wattage	T-Code or Temp.	Max. Internal Temp.
HFM	175M	T1	402°C
HFM	100S	280	280°C
HFM	150S	350	341°C

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

EPA	.5 ft ² (.05 m ²)
Width	10 1/2 (26.9)
Depth	6 3/4 (17.5)
Height	10 1/2 (26.9) (includes yoke)
Weight	15 lbs (6.8 kg)



High-Performance Floodlights



Shown with TS 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. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder; other architectural colors available. Architectural Class 1 anodize finish also available.

Door Frame – Aluminum door frame secured with four stainless steel latches.

Lens – Thermal-resistant and shock-re-

sistant tempered flat lens.

Mounting – Painted steel yoke complete with vertical angle selector stop, reaiming, and 3-foot, 14/3 SEO cable is standard.

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.

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

Ordering Information

Designation	Distribution		Voltage	Optional mounting	
HORIZONTAL HOUSING	Horiz.	Vert.	120	Shipped separately	
High Pressure Sodium	Lamp	Lamp	208 ⁴	TS	Tenon slipfitter ⁶
95 1000S	RMH	RMV	240 ⁴		(2 ³ / ₈ "OD max.)
Metal Halide	RNH ¹	RNV ³	277	FCRA	Crossarm adapter ⁶
95 1000M	RWH	RWV	347	FCRA45	Crossarm adapter
VERTICAL HOUSING	BPH ²	BPV ²	480 ⁴		(45° from horizontal) ⁶
High Pressure Sodium	SPH ²	SPV ²	TB ⁵	EWB	Extended wall bracket ⁶
95V 1000S				MP	Mounting plate ⁶
Metal Halide				TM	Tenon mount (base mount) ⁷
95V 1000M					

Example: 95 1000S RMH 120 SF

Options/Accessories	
Installed	
SF	Single fuse (120V, 277V, 347V, n/a TB)
DF	Double fuse (208V, 240V, 480V, n/a TB)
PER	NEMA twist-lock receptacle only
CSA	CSA certified
LPI	Lamp included as standard
L/LP	Less lamp

For optional Architectural Colors, see page 485.

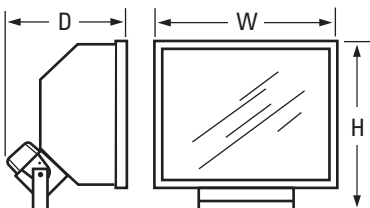
Shipped separately

UV	Upper visor
BV	Bottom visor
FV	Full visor (4-sided)
GV	Glare visor (3-sided)
CV	Concentric visor
VG	Vandal guard
SC	Shorting cap for PER option
PE1	NEMA twist-lock photocontrol (120V, 208V, 240V) ⁸
PE3	NEMA twist-lock photocontrol (347V) ⁸
PE4	NEMA twist-lock photocontrol (480V) ⁸
PE7	NEMA twist-lock photocontrol (277V) ⁸

Outdoor remote

MR1	Non-encapsulated
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	Lamp/Fixture Data			
	95		95V	
Distribution	1000M	1000S	1000M	1000S
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	4.7 ft ² (.44 m ²)	4.3 ft ² (.40 m ²)
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	90 lbs (40.7 kg)	90 lbs (40.7 kg)

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.

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. Standard finish is dark bronze (DDB) corrosion-resistant polyester powder. Architectural class 1 anodize finish also available.

Door Frame – Aluminum door frame secured with four stainless steel latches.

Lens – Thermal-resistant, tempered flat lens.

Mounting – Painted, steel yoke complete with angle selector, aiming stop, and 3-foot, 14/3 SEO cable is standard.

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.

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



Shown with TS mounting option.

Ordering Information

Example: **55 750S RPN 120 SF**

Designation	Distribution	Optional mounting	Options/Accessories	
HORIZONTAL HOUSING & LAMP		Shipped separately	Installed	Shipped separately
<u>High Pressure Sodium</u>	RME²	TS Tenon slipfitter ⁶ (2 ³ / ₈ "OD max.)	SF Single fuse (120V, 277V, 347V, n/a TB)	UV Upper visor
55 750S	RNE²	FCRA Crossarm adapter ⁶	DF Double fuse (208V, 240V, 480V, n/a TB)	BV Bottom visor
55 1000S	RPN²	FCRA45 Crossarm adapter (45° from horizontal) ⁶	PER NEMA twist-lock receptacle only	FV Full visor (4-sided)
<u>Metal Halide</u>	RWE²	EWB Extended wall bracket ⁶	CSA CSA Certified (120V, 277V, 347V only)	GV Glare visor (3-sided)
55 320M¹	RNA³	MP Mounting plate ⁶	LPI Lamp included as standard	VG Vandal guard
55 350M¹	RMA³	TM Tenon mount (base mount) ⁷	QRS Quartz restrike ^{8,9}	SC Shorting cap for PER option
55 400M	RWA³		SCWA Super CWA pulse start ballast (n/a HPS or 1000M)	PE1 NEMA twist-lock photocontrol (120V, 208V, 240V) ¹⁰
55 1000M				PE3 NEMA twist-lock photocontrol (347V) ¹⁰
VERTICAL HOUSING & LAMP				PE4 NEMA twist-lock photocontrol (480V) ¹⁰
<u>High Pressure Sodium</u>	Voltage			PE7 NEMA twist-lock photocontrol (277V) ¹⁰
55V 750S	120			Outdoor remote
55V 1000S	208⁴			MR1 Non-encapsulated
<u>Metal Halide</u>	240⁴			
55V 320M¹	277			
55V 350M¹	347			
55V 400M	480⁴			
55V 1000M	TB⁵			

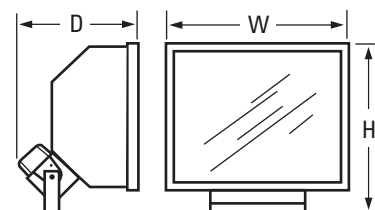
Lamp/Fixture Data						
	55	400M	1000S	1000M	400M	1000S
Distribution	1000M					
RME	6x5	6x5	6x5	4x6	5x6	5x6
RNE	6x4	6x4	6x4	4x6	4x6	4x6
RPN	6x2	6x2	5x1	1x6	1x6	1x5
RWE	6x5	6x5	6x5	5x6	5x6	5x6
RNA	5x1	—	—	1x5	—	—
RMA	6x6	—	—	6x6	—	—
RWA	6x5	—	—	6x7	—	—

NOTES:

- Must be ordered with SCWA.
- RME, RNE, RPN, RWE require reduced jacket BT-37 lamp with 1000M.
- RMA, RNA, RWA are for use with 1000M only and require standard BT-56 lamp.
- Consult factory for availability in Canada.
- Optional 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. TS included.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- PER must be ordered with fixture.

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

	55	55V
EPA	3.5 ft ² (.33 m ²)	3.8 ft ² (.35 m ²)
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)



170S



High-Performance Floodlights

Intended Use

For airport aprons or parking areas.

Features

Housing – Rugged, heavy-gauge, aluminum housing. Continuous welded seams for weathertight integrity. Dark bronze (DDB) corrosion-resistant polyester powder finish; other architectural colors available. Architectural Class 1 anodize finish also available.

Door Frame – Aluminum door frame secured with four stainless steel latches.

Lens – Thermal-resistant and shock-resistant tempered flat lens.

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

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(s) with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V. 4KV pulse rated.

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

Ordering Information

Designation	Distribution	Voltage
<u>High Pressure Sodium</u>	HPN	120
170S 250S		208 ³
170S 400S		240 ³
170S 750S		277
170S 1000S		347
<u>Metal Halide</u>		480 ³
170S 320M ¹		TB ⁴
170S 350M ¹		
170S 400M		
170S 1000M ²		

Lamp/Fixture Data

			Lamp	Beam	
Wattage		Ballast	Type	Spread	NEMA
<u>High Pressure Sodium</u>				H°xV°	Dist.
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

Optional mounting

Shipped separately

TS	Tenon slipfitter ⁵ (2 ³ / ₈ " OD max.)
FCRA	Crossarm adapter ⁵
FCRA45	Crossarm adapter (45° from horizontal) ⁵
EWB	Extended wall bracket ⁵
MPB29	Mounting pole bracket for 2 fixtures at 90° ⁶
MPB39	Mounting pole bracket for 3 fixtures at 90° ⁶
MPB49	Mounting pole bracket for 4 fixtures at 90° ⁶

Example: 170S 400S HPN 120 SF

Options/Accessories

Installed

SF	Single fuse (120V, 277V, 347V, n/a TB)
DF	Double fuse (208V, 240V, 480V, n/a TB)
PER	NEMA twist-lock receptacle only
CSA	CSA Certified
QRS	Quartz restrike ^{7,8}
SCWA	Super CWA pulse start ballast (n/a HPS and 1000M)

For optional Architectural Colors, see page 485.

Shipped separately

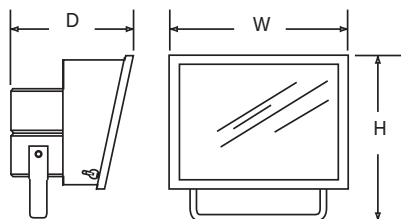
UV	Upper visor
SC	Shorting cap for PER option
PE1	NEMA Twist-lock photocontrol (120V, 208V, 240V) ⁹
PE3	NEMA twist-lock photocontrol (347V) ⁹
PE4	NEMA twist-lock photocontrol (480V) ⁹
PE7	NEMA twist-lock photocontrol (277V) ⁹

Outdoor remote

MR1	Non-encapsulated
------------	------------------

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

	170S
EPA	2.7 ft ² (.25 m ²)
Width	21 (53.3)
Height	20 ¹ / ₂ (52.1)
Depth	19 ¹ / ₄ (48.9)
Max weight	83 lbs (37.6 kg)



NOTES:

- Must be ordered with SCWA.
- Requires a BT-37 reduced jacket lamp.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- For use with YK mounting (standard) only.
- MPB bracket ships separately with junction box and hinge mechanisms. Bracket weight: 12 lbs.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- PER must be ordered with fixture.

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. "Fluxmanager" (NFX, WFX, MFX) available for optimal glare and spill light

control. Choice of General Purpose or heavy-duty (shrouded) reflectors.

Electrical System—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. Below horizontal aiming only.

Installation—Fixture is mounted by securing trunnion directly to crossarm. Mounting hardware is provided.

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.

Hardware—All external hardware is stainless steel.

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

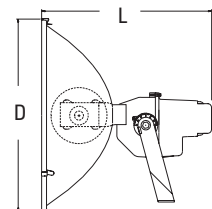
Designation	Distribution	Voltage	Options/Accessories
<u>Metal Halide</u>	<u>General purpose</u>	<u>Heavy duty</u> ²	<u>Options (shipped installed)</u>
TSP 400M ¹	GP24N	HD24N	SF Single fuse (120V, 277V, 347V) n/a TB
TSP 1000M	GP24NFX	HD24NFX	DF Double fuse (208V, 240V, 480V) n/a TB
TSP 1500M	GP24M	HD24M	QRS Quartz restrike system (lamp not included)
	GP24MFX	HD24MFX	C62 2 ft. of 16/3 SEO cable pre-wired
	GP24W	HD24W	C42 2 ft. of 14/3 SEO cable pre-wired
	GP24WFX	HD24WFX	C22 2 ft. of 12/3 SEO cable pre-wired
			CV3P 3 ft. of 16/3 EO cord pre-wired with 3-prong plug (use with prewired cages and crossarms) ^{5,6}
			CR Enhanced corrosion resistance
			CF Charcoal filter (heavy-duty only) ⁷
			SLR Stainless steel lens ring
			WC Wood crossarm mounting bolt (5/8"-11 UNC x 7")
			SCWA Super CWA pulse start ballast (400M only)
			CSA CSA Certified
			For optional Architectural Colors, see page 485.
			<u>Shipped separately</u> ⁸
			FTS Tenon slipfitter

NOTES:

- May be ordered with SCWA.
- Heavy-duty anodized aluminum shroud.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Must use mating receptacle, provided by others.
- N/A 1500M, 120V.
- HD option must be ordered.
- See flood accessories sheet for additional ordering information.

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

EPA	TSP
Diameter	3.3 ft ² (0.91m ²)
Length	24 1/2 (62.2)
Max weight	20 (50.8)
	55 lbs (24.9 kg)



Controlled-Beam Sportslighters

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 op-

tical assembly, promoting longer ballast life. Ballast is high-power factor, constant-wattage autotransformer, copper wound and 100% factory tested.

Installation – Mounted by securing integral crossarm mounting bracket directly to cross arm. $\frac{5}{8}$ " x 11UNC mounting bolt provided. Exposed bolt length: 1½".

Socket – Glazed porcelain, mogul-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.



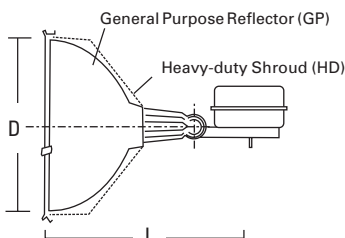
Ordering Information

Example: **TV 1500M GP4 TB**

Designation	Distribution ¹	Voltage
<u>High Pressure Sodium</u>	GP2²	120
TV 400S	GP3²	208⁴
TV 1000S	GP4³	240⁴
<u>Metal Halide</u>	GP5³	277
TV 400M	GP6	347
TV 1000M		480⁴
TV 1500M		TB⁵

NOTES:

- To order heavy-duty aluminum shroud, change GP to HD in catalog number. Example: TV 400S HD2.
- Not available for 1000S or 1000H.
- Not available for 1000H.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Must use mating receptacle, provided by others (n/a 1500M 120V).
- May be ordered as accessory.



Options/Accessories	
<u>Installed</u>	<u>Shipped separately⁷</u>
SF Single fuse (120V, 277V) n/a TB or 347V	<u>NEMA twist-lock PE photocontrol</u>
DF Double fuse (208V, 240V, 480V) n/a TB	PE1 120V-240V
PER NEMA PE recept. only, no photocell	PE3 347V
QRS Quartz restrike system (lamp not included)	PE4 480V
LS Lamp support	PE7 277V
C62 2 ft. of 16-3 SEO cord pre-wired	SC Shorting cap (metal halide only)
C42 2 ft. of 14-3 SEO cord pre-wired	UV Upper visor
C22 2 ft. of 12-3 SEO cord pre-wired	FTS Tenon slipfitter
CV3P 3 ft. of 16-3 SEO cord pre-wired w/ 3 prong plug for use with pre-wired cages and crossarms ⁶	
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)	

For optional Architectural Colors, see page 485.

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

EPA	TV	
	NEMA 2, 3:	2.9 ft. ² (.27 m ²)
	NEMA 4, 5, 6:	2.5 ft. ² (.23 m ²)
Diameter	NEMA 2, 3:	23⅞ (58.7)
	NEMA 4, 5, 6:	21½ (54.6)
Length	NEMA 2, 3:	30 (76.2)
	NEMA 4, 5, 6:	31½ (80)

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:

(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:

- GP20A J4** (5 cartons of 4 reflectors)
GP20A U (1 carton of 1 reflector)

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.

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

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: 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 – H.I.D.: 50W-150W utilizes a high reactance, high power factor ballast. 35S utilizes a reactance high 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. Porcelain, medium-base copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V 4KV pulse rated. CFL: compact fluorescent ballast is Class P, electronic, high power factor, <10% THD with starting temp. of 0° F (-18° C). Fluorescent socket is high-temperature thermoplastic with integral lamp retention clip.

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

WSR/WST



Example: WST 175M FT 120 SF LPI

Ordering Information

Series			Distribution	Voltage	Options	
WST	Trapezoid		<u>Downlight Distributions</u>	120	<u>Shipped installed in fixture</u>	<u>Architectural Colors¹⁶</u>
WSR	Half round		FT Forward throw	208⁴	SF Single fuse (120V, 277V, 347V, n/a TB) ⁸	<u>Standard Textured Colors</u>
<u>Wattage/Source</u>			MD Medium throw (coated lamp standard)	240⁴	DF Double fuse (208V, 240V, n/a TB or TBV) ⁸	DDBT Dark bronze (standard)
			WT Wide throw	277	GMF Internal slow-blow fusing ^{9,10}	DSST Sandstone
			TB⁵	TB⁵	EC Emergency circuit (25W max, lamp included)	DNAT Natural aluminum
<u>Metal Halide</u>	<u>High Pressure Sodium</u>	<u>Compact Fluorescent²</u>	<u>Uplight Distributions³</u>	TBV⁶	DC12 Emergency circuit 12 volt ¹¹ (35W lamp included standard)	DWHG White
50M	35S¹	26DTT	FTU Forward throw with 10% uplight	MVOLT⁷	ELDW Emergency battery pack (120V or 277V only) ^{9,12}	DBLB Black
70M	50S	2/26DTT	MDU Medium throw with 10% uplight (coated lamp standard)		QRS Quartz restrike system (100W max, lamp not included) ⁸	<u>Shipped separately</u>
100M	70S	32TRT	WTU Wide throw with 10% uplight		CR Enhanced corrosion resistance	WSBBW Surface-mounted back box ¹⁷
150M	100S	2/32TRT	MDU5 Up/down medium throw with 50% uplight & 50% downlight (coated lamp standard)		CRT Non-stick protective	UT5 Uplit 5 degrees ¹⁷
175M	150S	42TRT				WSTWG Wire guard (WST) ¹⁴
						WSTVG Vandal guard (WST) ¹⁴
						WSRWG Wire guard (WSR) ¹⁴
						WSRVG Vandal guard (WSR) ¹⁴

NOTES:
1 120V only.
2 120V only. 3 120V only. 4 120V only. 5 120V only. 6 120V only. 7 120V only. 8 120V only. 9 120V only. 10 120V only. 11 120V only. 12 120V only. 13 120V only. 14 120V only. 15 120V only. 16 120V only. 17 120V only.

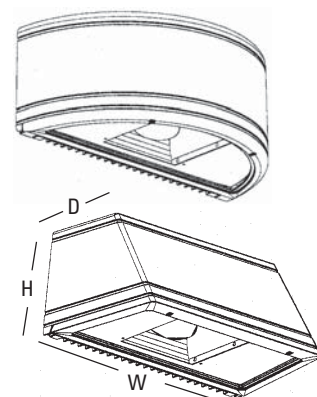
NOTES:

- 120V only.
- Only available with MD, MDU, and MDU5 distributions.
- Available on WSR fixture only.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Optional penta-tap ballast (120V, 208V, 240V, 277V, 480V; not available in Canada). 175M only.
- Optional multi-volt electronic ballast (for compact fluorescent lamps only) capable of operating on any line voltage from 120V-277V.
- Not available with compact fluorescent.
- Available for compact fluorescent units only.
- Must specify voltage. Not available with MVOLT or TB.
- Not available with SF, DF, or QRS.
- Not available with 2/32TRT or 2/42TRT.
- Black finish only.
- Must be ordered with fixture; no field installations.
- IBS not available with MD, MDU and MDU5 distributions.
- Additional architectural colors available; see www.lithonia.com for more information.
- Must specify finish.



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

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





Architectural Building Mounted

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

Lens Frame – Cast aluminum frame is hinged and secured by stainless steel fasteners. Closed cell silicone gasket prevents the penetration of dust and moisture.

Lens – Clear, impact-resistant, tempered glass lens with silkscreen.

Mounting – 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.

Optics – Anodized aluminum reflectors: segmented, specular or hammertone finish.

Electrical – 150W and below utilizes a high reactance, high power ballast. 175W and above utilizes a constant-wattage autotransformer ballast. Both 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. 4KV pulse rated. UL listed 660W, 600W.

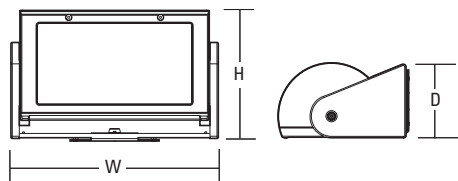
Listings – UL Listed (standard). CSA Certified (see Options). UL listed for wet locations. IP65 rated in accordance with standard IEC 529.

Ordering Information

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

Designation	Distribution	Voltage	Options/Accessories	
<u>High Pressure Sodium</u>			<u>Installed</u>	<u>Architectural colors</u>
WFL2 70S	SP Spot	120	SF Single fuse (120V, 277V, 347V, n/a TB)	(powder finish) ⁶
WFL2 100S	BP Horizontal flood ³	208⁴	DF Double fuse (208V, 240V, 480V, n/a TB)	Standard colors:
WFL2 150S	RN Horizontal spot, narrow	240⁴	QRS Quartz restrrike system (WFL3 only, 100W max, lamp not included)	DDB Dark bronze (standard)
WFL3 250S	RM Horizontal spot, medium	277	CR Enhanced corrosion resistance	DWH White
WFL3 400S	RW Horizontal spot, wide	347	CSA CSA Certified	DBL Black
<u>Metal Halide</u>			PE Photoelectric cell, button type (n/a TB 480V)	Classic colors:
WFL2 70M	HPN Vertical flood, narrow	480⁴	CFRO Color lens/rose	DMB Medium bronze
WFL2 100M	HPM Vertical flood, medium	TB⁵	CFBL Color lens/blue	DNA Natural aluminum
WFL2 150M	HPW Vertical flood, wide		EC Emergency circuit (WFL3 only)	DSS Sandstone
WFL2 175M	FT Forward throw		SCWA Super CWA pulse start ballast (n/a HPS, 70M, 100M or 175M)	DGC Charcoal gray
WFL3 200M¹	GZ Wall grazing		LC90 Lock at 90° for full cutoff	DTG Tennis green
WFL3 250M			LPI Lamp included as standard	DBR Bright red
WFL3 320M¹			L/LP Less lamp	DSB Steel blue
WFL3 350M¹				<u>Shipped separately⁷</u>
WFL3 400M²				UV Upper visor
				EV Eggcrate visor (black)
				BV Bottom visor
				FV Full visor
				WG Wire guard
				BD Barn door
				HLV Horizontal louver (black)
				VLV Vertical louver (black)
				BVG Bubble vandal guard
				WFLBBW Back box

Ballast	Lamp Type	Base Type	Beam Spread	NEMA Dist.	H ² xV ²
<u>High Pressure Sodium</u>					
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
<u>Metal Halide</u>					
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



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

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

NOTES:

- 1 Must be ordered with SCWA.
- 2 Requires ED-28 reduced jacket lamp.
- 3 WFL2 only.
- 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 Additional architectural colors available; see Architectural Colors brochure on www.lithonia.com.
- 7 May be ordered as an accessory. Door frame must be factory drilled.

Intended Use

For outdoor storage areas, warehouse and factory perimeters and loading docks.

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.

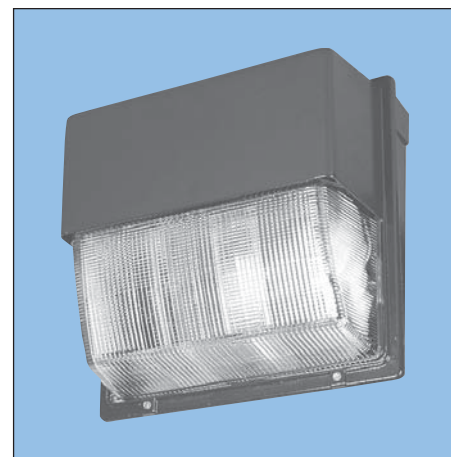
Electrical – 70-150W HPS and 100-150M: High-reactance, high-power factor. All others: Constant-wattage autotransformer. Ballast is copper wound and 100% factory tested. UL listed. Electrical components mounted in hinged front cover that

includes primary and secondary electrical disconnect.

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. **Not recommended in applications where a sprayed stream of water can come in direct contact with glass lens.**

Socket – Glazed porcelain (mogul-base; 175M and above), horizontally oriented with copper alloy, nickel-plated screw shell and center contact. 4KV pulse rated. Medium-base (150M, 100S and below) UL listed 660W, 600V. Mogul-base: UL listed 1500W, 600V.

Listings – UL Listed (standard). CSA or NOM Certified (see Options). UL listed for wet locations. IP65 rated (250W and below) or IP54 rated (400W) in accordance with IEC standard 529.



Example: TWH 250S TB LPI

Ordering Information

Designation	Voltage	Options/Accessories			
High Pressure Sodium		Installed	PER NEMA twist-lock receptacle ¹⁴	NOM NOM Certified (consult factory)	
TWH 70S	208 ⁷	SF Single fuse (120V, 277V, 347V) ⁵	LS Lamp support (mogul socket only)	LPI Lamp included as standard	
TWH 100S	240 ⁷	DF Double fuse (208V, 240V, 480V) ⁵	FS Full shield	L/LP Less lamp	
TWH 150S ¹	277	EC Emergency circuit ^{11,12}	WG Wireguard ¹⁵	TP Tamperproof fasteners	
TWH 200S	347	QRS Quartz restrike system ^{11,12}	VG Vandal guard ¹⁵	For optional Architectural Colors, see page 485.	
TWH 250S	480 ⁸	CR Enhanced corrosion resistance	SCWA Super SCWA pulse start ballast (150M-400M only--n/a 175M)		
TWH 400S	TB ⁹	CRT Non-stick protective coating ¹³	RHP Reactor high power factor ballast (HPS 150W & below only)		
TWH 250/400S ²	TBV ¹⁰	PE Photoelectric cell – button type ⁵	RNP Reactor normal power factor ballast (HPS 150W & below only)		
Metal Halide			XHP Reactance high power factor ballast (HPS 150W & below only)		
TWH 100M			CSA CSA Certified ¹⁶		
TWH 150M					
TWH 175M					
TWH 200M ³					
TWH 250M					
TWH 320M ³					
TWH 350M ³					
TWH 400M ⁴					
Mercury Vapor					
TWH 100H					
TWH 175H					
TWH 250H					
Low Pressure Sodium					
TWH 35L ⁵					
Incandescent					
TWH 300I ⁶					

NOTES:

- Operates 55V lamp.
- Shipped as 250S.
- Must be ordered with SCWA.
- Requires T-15, ED or BT 28 reduced jacket lamp.
- Not available TB.
- 120V only, A21 lamp.
- Consult factory for availability in Canada.
- Not available in Canada.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.

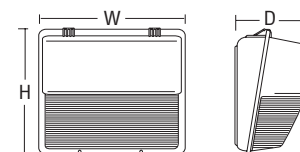
- Optional 5-tap ballast (120V, 208V, 240V, 277V, 480V).
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- Black finish only.
- Photocell not included.
- Requires factory modification.
- Not available with TBV.
- Other ballast types available.

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 |
| PE3 | NEMA twist-lock photocontrol, 347V |
| PE4 | NEMA twist-lock photocontrol, 480V |
| PE7 | NEMA twist-lock photocontrol, 277V |

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)



TWR

NEW


TWR1C

Die-Cast Wall-Paks, Glass Refractor

Intended Use

For mounting above entryways and loading docks.

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.

Installation—Housing configured for mounting directly over a standard 4" outlet box or for surface wiring via any of three convenient ½" threaded conduit entry hubs.

Optics—(TWR1, TWR2) Refractor is prismatic borosilicate glass. Reflector is die-formed anodized stippled aluminum. TWR1 medium-base and TWR2 mogul-base lamp included in carton as standard. (TWRIC) tempered glass lens. One-piece anodized aluminum reflector.

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.

Listings—UL listed to US and Canadian safety standards. UL/C-UL listed for wet locations. (UL tested at 25°C ambient temperature).



TWR1

TWR2

Ordering Information

Example: **TWR1 70S TB LPI**

Designation	
<i>TWR1/TWR2</i>	<i>TWRIC</i>
<u>High Pressure Sodium</u>	<u>High Pressure Sodium</u>
TWR1 70S	TWRIC 70S
TWR1 100S	TWRIC 100S
TWR1 150S	TWRIC 150S
TWR2 250S	TWRIC 150S
TWR2 400S	
<u>Metal Halide</u>	<u>Metal Halide</u>
TWR1 70M	TWRIC 70M
TWR1 100M	TWRIC 100M
TWR1 175M	TWRIC 175M
TWR2 250M	
TWR2 400M	

Voltage	Options
TB¹ 120/347²	LPI Lamp included as standard
	CSA CSA Certified

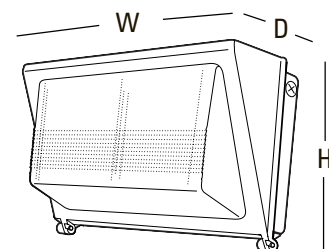
Accessories	(Order separately)
TWR1WG	Wireguard
TWR2WG	Wireguard
TWR1CWG	Wireguard
RK1 TWR1 FA	Lens repair kit
RK1 TWR2 FA	Lens repair kit
RK1 TWR1 CFA	Lens repair kit
TWRIC FCV	Full cutoff visor

NOTES:

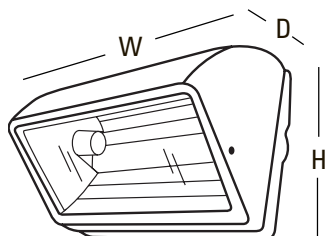
- 1 TB is 120V, 208V, 240V, 277V. In Canada 120V, 277V, 347V; ships as 120V/347V.
- 2 Only available with CSA.

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

	<i>TWR1</i>	<i>TWR2250W</i>	<i>TWR2400W</i>	<i>TWRIC</i>
Height	9 (22.86)	9 1/4 (23.50)	9 1/4 (23.50)	8 15/32 (21.5)
Width	13 (33.02)	17 7/8 (45.40)	17 7/8 (45.40)	13 (33)
Depth	7 3/8 (18.75)	9 3/8 (23.81)	12 1/2 (31.75)	10 1/4 (26)
Max weight	18 lbs (11.8 kg)	26 lbs (11.8 kg)	31 lbs (14.07 kg)	



TWR1



TWR1C

TWP

Intended Use

For entrances, loading docks, walkways and vehicle ramps.

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 an opaque portion of front cover and back housing is dark bronze polyester. Refractor is sealed and gasketed to inhibit the entrance of outside contaminants.

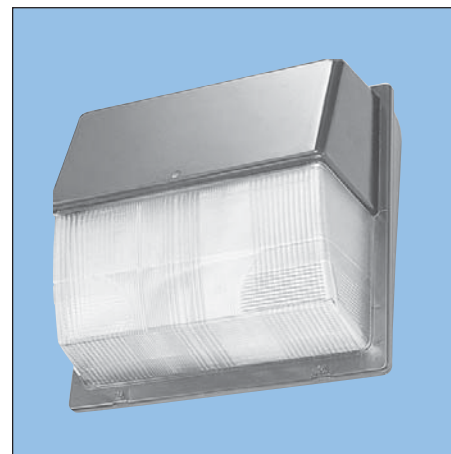
Electrical – HPS, 70-150M: High-reactance, high-power factor (XHP). 175MH and MV: Constant-wattage autotrans-

former. Ballast is copper wound and 100% factory tested. UL listed. Electrical components mounted on back housing.

Installation – Top ¾" threaded wiring access. Back access through ¾" opening. For feed-thru wiring, use conduit tee (not included). Mount on any flat, non-combustible vertical surface.

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

Listings – UL Listed (standard). CSA or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with IEC standard 529.



Example: **TWP 175M TB LPI**

Ordering Information

Designation	Voltage	Options/Accessories
<u>High Pressure Sodium</u>	120	WG Wireguard
TWP 35S^{1,2}	208⁴	SCWA Super CWA pulse start ballast (150M only)
TWP 50S¹	240⁴	RHP Reactor high power factor Ballast (HPS only)
TWP 70S	277	RNP Reactor normal power factor ballast (HPS only)
TWP 100S	347	XHP Reactance high power factor ballast (HPS only)
TWP 150S³	480⁴	
<u>Metal Halide</u>	TB⁵	
TWP 70M		
TWP 100M		
TWP 150M		
TWP 175M		
<u>Mercury Vapor</u>		
TWP 100H		
TWP 175H		
<u>Low Pressure Sodium</u>		
TWP 35L¹		
<u>Incandescent</u>		
TWP 200I		

NOTES:

- Not available with 480V or TB.
- 120V only.
- Operates 55V lamp.
- Consult factory in Canada; not available with 35S, 50S and 150M.
- Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- Black finish on housing only.
- Other ballast types available.

Installed

- SF** Single fuse (120V, 277V, 347V)¹
- DF** Double fuse (208V, 240V, 480V)¹
- EC** Emergency circuit^{6,7}
- QRS** Quartz restrike system^{6,7}
- CR** Enhanced corrosion resistance
- CRT** Non-stick protective coating⁸
- PE** Photoelectric cell, button type¹
- LPI** Lamp included as standard
- L/LP** Less lamp
- FS** Full shield

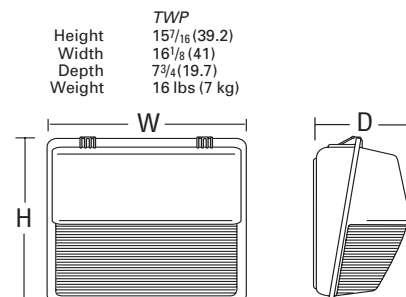
Lamp/Fixture/Ballast Data⁹

Wattage	Lamp Ballast	Base Type	Type
<u>High Pressure Sodium</u> (med/clear)			
35	RHP	E17	medium
50	RHP	E17	medium
70	XHP	E17	medium
100	XHP	E17	medium
150	XHP	E17	medium
<u>Metal Halide</u> (med/70/100/150)/mogul(175)/clear)			
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</u> (mog/coated)			
100	CWA	E17	medium
175	CWA	BT/ED28	mogul
<u>Low Pressure Sodium</u> (D.C. bay/clear)			
35	HPF-LAG	T17	medium

Accessories (Order separately)

- RK1 PEB1** Photoelectric control kit, 120V
- RK1 PEB2** Photoelectric control kit, 208V, 240V, and 277V.
- RK1 PEB1 CSA** Photoelectric control kit, 120V
- RK1 PEB3 CSA** Photoelectric control kit, 347V
- RK1 TWPFA FS** Field installable shield for cutoff

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



TWA

Contour®



Mini Wall-Paks, Polycarbonate Refractor

Intended Use

For entrances, stairwells, corridors and other pedestrian areas.

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 – 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. Refractor 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. (For 50 hertz availability consult factory). Fluorescent ballasts are magnetic NPF (22 & 28 DTT) or electronic HPF (26 DTT & TRT).

Installation – Top ½" threaded wiring access. Back access through ¾" opening. For feed-thru wiring, use conduit tee (not included). Mount on any flat, non-combustible vertical surface. Photocell is field installable.

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.

Listings – UL Listed (standard). CSA or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with IEC standard 529.

Ordering Information

Example: TWA 100M 120 LPI

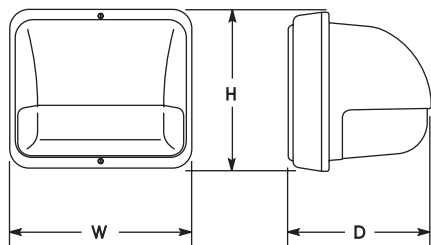
Designation	Voltage	Options/Accessories	
<u>High Pressure Sodium</u>	120	<u>Installed</u>	<u>Architectural Colors (optional)</u>
TWA 35S ¹	208⁴	GMF GMF Internal slow-blow fusing ⁷	DNA Natural aluminum
TWA 50S ²	240⁴	SF Single fuse (120V, 277V, 347V) ⁸	DBL Black
TWA 70S ³	277	DF Double fuse (208V, 240V) ⁸	DMB Medium bronze
TWA 100S ³	347	EC Emergency circuit ^{9,10}	DWH White
<u>Metal Halide</u>	TB⁵	QRS Quartz restrike system ^{9,10}	DSS Sandstone
TWA 50M	MVOLT⁶	CR Enhanced corrosion resistance	
TWA 70M		CRT Non-stick protective coating (rear housing only) ¹¹	
TWA 100M		PE Photocell (button type) ⁸	
<u>Compact Fluorescent</u>		LPI Lamp included as standard	
TWA 22DTT (2-pin)		L/LP Less lamp	
TWA 26DTT (4-pin)		XHP High power factor ballast (HPS only)	
TWA 28DTT (2-pin)		CSA CSA Certified	
TWA 32TRT (4-pin)		NOM NOM Certified (consult factory)	
TWA 42TRT (4-pin)			

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

Height	TWA 10 (25.4)
Width	11½ (29.2)
Depth	8½ (21.7)
Max weight	14 lbs (6.4 kg)

NOTES:

- 120V only.
- 120V or 277V only
- 120 R-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 for CF only. Not available with MVOLT.
- Not available with multi-tap ballast.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating; not available with compact fluorescent..
- Black finish only.



Accessories (Order separately)

RK1 PEB1	Photoelectric control kit, 120V
RK1 PEB1 CSA	Photoelectric control kit, 120V
RK1 PEB2	Photoelectric control kit, 208V, 240V, 277V
RK1 PEB3 CSA	Photoelectric control kit, 347V
TWAWG	Wireguard

Lamp/Fixture/Ballast 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	Mag NPF	T4	GX32D-2
26DTT	Elec HPF	T4	GX32D-3
28DTT	Mag NPF	T4	GX32D-3
32TRT	Elec HPF	T4	GX24Q-3
42TRT	Elec HPF	T4	GX24Q-3

TWAC*Contour®***Intended Use**

For entrances, stairwells, corridors and other pedestrian areas.

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 included slotted hex-head and tamper-proof fasteners. Finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – 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 is sealed and gasketed to inhibit the 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 cast-aluminum housing for maximum heat-dissipation. Fluorescent ballasts are magnetic NPF (22 & 28 DTT) or electronic HPF (26 DTT & TRT). Encased and potted solid-state ignitors (HPS). Components are heat-sinked directly to cast housing for maximum heat-dissipation. (For 50 hertz availability, consult factory.)

Installation – Top ½" threaded wiring access. Back access through ¾" opening. For feed-thru wiring, use conduit tee (not included). Mount on any flat, non-combustible vertical surface.

Socket – H.I.D. is porcelain, horizontally oriented, medium-base socket with copper alloy, nickel-plated screw shell and center contact. Photocells are field-installable. UL listed 660W, 600V and 4KV pulse rated. Fluorescent is two-pin (DTT) or four-pin (TRT), positive latching thermoplastic.

Listings – UL Listed (standard). CSA or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with IEC standard 529.

Example: **TWAC 100S 120 LPI****Ordering Information**

Designation	Voltage	Options/Accessories	
<u>High Pressure Sodium</u>	120	<u>Installed</u>	<u>Architectural Colors (optional)</u>
TWAC 35S¹	208⁴	SF Single fuse (120V, 277V, 347V) ⁷	DNA Natural aluminum
TWAC 50S²	240⁴	DF Double fuse (208V, 240V) ⁷	DBL Black
TWAC 70S³	277	XHP High power factor ballast	DMB Medium bronze
TWAC 100S³	347	EC Emergency circuit ^{8,9}	DWH White
<u>Metal Halide</u>	TB⁵	QRS Quartz restrike system ^{8,9}	DSS Sandstone
TWAC 50M	MVOLT⁶	CR Enhanced corrosion resistance	
TWAC 70M		CRT Non-stick protective coating (rear housing) ¹⁰	<u>Accessories (Order separately)</u>
TWAC 100M		CSA CSA Certified	RK1 PEB1 Photoelectric control kit, 120V
<u>Compact Fluorescent</u>		NOM NOM Certified (consult factory)	RK1 PEB1 CSA Photoelectric control kit, 120V
TWAC 22DTT (2-pin)		PE Photocell (button type) ⁷	RK1 PEB2 Photoelectric control kit, 208V, 240V or 277V
TWAC 26DTT (4-pin)		LPI Lamp included as standard	RK1 PEB3 CSA Photoelectric control kit, 347V
TWAC 28DTT (2-pin)		L/LP Less lamp	TWAWG Wireguard
TWAC 32TRT (4-pin)		DC12 Emergency circuit 12V. 35W lamp included ¹¹	
TWAC 42TRT (4-pin)		2DC12 Emergency circuit 12V. 2/35W lamps included ¹¹	

Lamp/Fixture/Ballast Data

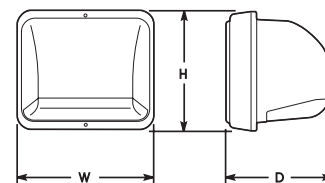
Wattage Ballast	Lamp Type	Base Type
<u>High Pressure Sodium (med/clear)</u>		
35 RNPf	E17	medium
50 RNPf	E17	medium
70 RNPf	E17	medium
100 RNPf	E17	medium
<u>Metal Halide (med/70/100/150)/mog(175)/clear)</u>		
50 HX-HPF	E17	medium
70 HX-HPF	E17	medium
100 HX-HPF	E17	medium
<u>Fluorescent (double twin-tube/triple-tube)</u>		
22DTT Mag NPF	T4	GX32D-2
26DTT Elec HPF	T4	GX32D-3
28DTT Mag NPF	T4	GX32D-3
32TRT Elec HPF	T4	GX24Q-3
42TRT Elec HPF	T4	GX24Q-3

NOTES:

- 120V only.
- 120V or 277V only.
- 120R-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 CF) capable of operating any line voltage from 120V-277V.
- Not available with multi-tap ballast.
- Lamp not included.
- Quartz lamp wattage not to exceed ballast wattage rating.
- Black finish only.
- H.I.D. only. Not available with QRS, ES, or NOM.

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

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





Cast Micro Wall-Paks, Polycarbonate Refractor

Intended Use

Use for entrances, stairwells, corridors, other pedestrian areas.

Features

Housing – Normal Power Factor (NPF) backplate is heavy-gauge steel. High Power Factor (HPF) housing is heavy-duty cast aluminum, finished in dark bronze. Electrical components are mounted to backplate (NPF) or cast housing (HPF) for maximum heat-dissipation. Stainless steel external hardware includes slotted hex-head and tamperproof fasteners. Finish is dark bronze (DDB) corrosion-resistant polyester powder.

Optics – Front cover/refractor is injection-molded, one-piece, UV-stabilized polycarbonate. Optical system is sealed and gasketed to inhibit entrance of outside contaminants. Standard finish is dark bronze (DDB)

corrosion-resistant polyester enamel.

Electrical – 120V reactor normal (RNP) or high-power factor (RHP) or high-reactance, high power factor (XHP). 100% copper wound and factory tested. TRT ballasts are HPF electronic, UL listed.

Installation – NPF unit mounts to standard J-box. Surface conduit mount requires extension collar accessory. HPF units may be mounted flush to wall or horizontally facing down. HPF units have 3/4" threaded hub for wiring access. Closed-cell gasketing seals junction.

Socket – HPS: Medium-base porcelain socket, vertically oriented with copper alloy nickel-plated screw shell and center contact. UL listed 660W, 600V. Compact fluorescent socket.

Listings – UL Listed (standard). CSA or NOM Certified (see Options). UL listed for wet locations. IP65 rated in accordance with IEC standard 529.

Ordering Information

Example: TWL 50S 120 SF LPI

Accessories (Order separately)

RK1 PEB1	Photoelectric control kit, 120V
RK1 PEB2	Photoelectric control kit, 208V, 240V, 277V
RK1 PEB3 CSA	Photoelectric control kit, 347V
RK1 PEB1 CSA	Photoelectric control kit, 120V
TWLMB	Cast aluminum mounting box
TWLWG	Wireguard ⁹
TWLEP1	Extension collar 1 1/2" deep ¹⁰
TWLEP2	Extension collar 2 1/8" deep ¹⁰

Designation	Voltage
<u>High Pressure Sodium</u>	120
TWL 35S¹	208^{3,4}
TWL 50S	240^{3,4}
TWL 70S	277³
<u>Fluorescent</u>	347³
TWL 7TT¹ (2-pin)	TB^{3,5}
TWL 9TT¹ (2-pin)	MBVOLT⁶
TWL 13TT¹ (2-pin)	
TWL 13DTT¹ (2-pin)	
TWL 22DTT¹ (2-pin)	
TWL 26DTT (4-pin)	
TWL 28DTT¹ (2-pin)	
TWL 26TRT (4-pin)	
TWL 32TRT (4-pin)	
TWL 42TRT (4-pin)	
<u>Incandescent</u>	
TWL I²	

Options
<u>Installed</u>
SF Single fuse (120V, 277V) ⁷
PE Photoelectric cell (button type) ⁷
LPI Lamp included as standard
L/LP Less lamp
RHP Reactor high power factor ballast (HPS and 120V only)
XHP High reactance high power factor ballast (208V, 240V, 277V, 347V, and TB) ⁸
CSA CSA Certified
NOM NOM Certified (consult factory)
<u>Architectural Colors</u> (optional)
DNA Natural aluminum
DBL Black
DMB Medium bronze
DWH White
DSS Sandstone

Lamp/Fixture/Ballast Data

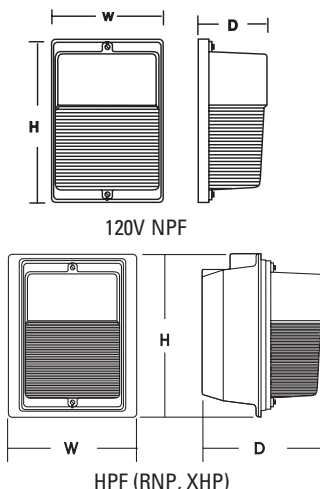
Wattage Ballast	Lamp Type	Base Type
<u>High Pressure Sodium</u> (med/clear)		
35 RNP	E17	medium
35 HPF	E17	medium
50 RMP	E17	medium
50 HPF	E17	medium
70 RNP	E17	medium
70 HPF	E17	medium
<u>Fluorescent</u> (twin-tube)		
7 RNP	T4	G23
9 RNP	T4	G23
13 RNP	T4	GX23
<u>Fluorescent</u> (double twin-tube)		
13 RNP	T4	GX23
22 RNP	T4	GX32D-2
28 RNP	T4	GX32D-3
<u>Fluorescent</u> (triple-tube)		
32 HPF	T4	GX24Q-3
42 HPF	T4	GX24Q-4

NOTES:

- 120V only.
- 120V only, A19 lamp.
- Requires cast HPF back housing.
- 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 electric ballast (for compact fluorescent) capable of operating on any line voltage from 120V-277V.
- Not available with multi-tap ballast.
- HPS only. Not available in 35S.
- Order TWAWG with TWLMB, EP or HPF.
- 120V NPF units only.

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

	TWL 120V NPF	TWL HPF
Height	10 1/2 (26.7)	10 3/4 (27.3)
Width	6 9/16 (17.2)	7 1/8 (18.1)
Depth	3 7/8 (9.8)	7 11/16 (19.5)
Weight	4 lbs (1.8 kg)	8 lbs (3.6 kg)



Mini Wall-Paks, Polycarbonate Refractor

Building Mounted

TWM

Intended Use

For security lighting that requires vandal resistance and a variety of wall-mounting options.

Features

Housing – Rear housing is rugged, die-cast aluminum. One-piece gasket inhibits the entrance of external contaminants. Bronze polyester powder finish standard.

Installation – Housing is configured for mounting directly over a standard 4" outlet box or for surface wiring via two convenient 1/2" threaded conduit entry hubs.

Optics – Refractor is one piece prismatic polycarbonate designed for uniform area illumination. Reflector is die-formed anodized aluminum. Medium-base lamp included in carton as standard.

Electrical – 120V reactor, normal power factor ballast. Ballast is copper wound and 100% factory tested.

Listings – UL Listed to US and Canadian safety standards. UL/C-UL listed for wet locations. (UL tested at 25° C maximum ambient temperature).



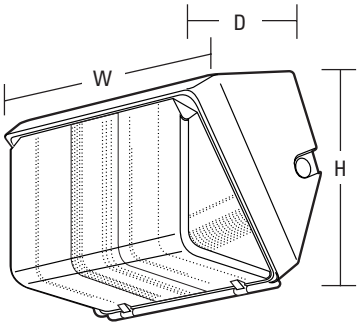
Ordering Information

Example: **TWM 50S 120 LPI**

Designation	Voltage	Options
High Pressure Sodium	120	LPI Lamp included as standard
TWM 50S		
TWM 70S		
TWM 100S		

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

	TWM
Height	8 1/2 (21.59)
Width	8 1/2 (21.59)
Depth	6 (15.24)
Max weight	7 lbs (3.17 kg)



WG/WP



Globe/Cylinder Wall-Paks, Glass/Polycarbonate

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). 100% copper wound and factory tested. H.I.D. is UL 1029 listed. Fluorescent is UL 935 listed, electromagnetic.

Installation – Wall and ceiling mounted.

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.

Listings – UL Listed. UL Listed for wet locations.

Ordering Information

Example: **WGCW 70S 120 LPI**

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

NOTES:

¹ Not included with incandescent fixtures.

Lamp/Fixture/Ballast Data			
Wattage	Ballast	Lamp Type	Base Type
<u>High Pressure Sodium</u> (Med/Clear)			
35	RNP	E17	medium
50	RNP	E17	medium
70	RNP	E17	medium
<u>Fluorescent</u> (Double Twin-Tube)			
22	RNP	T4	GX32D-2
28	RNP	T4	GX32D-3

Intended Use

For parking garage applications.

Features

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

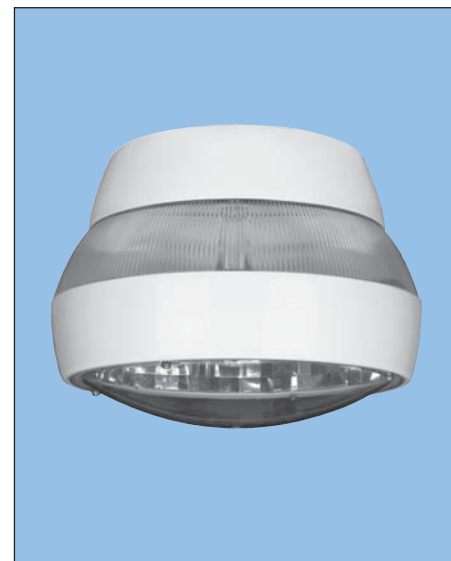
Lens – Precision injection-molded, UV stabilized, acrylic lens. Hinged and secured with four stainless steel screws. Polycarbonate lens available.

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 segmented, anodized aluminum reflector and upper-precision, injection-molded, prismatic acrylic refractor. Polycarbonate refractor available.

Electrical – High-reactance, high-power factor or constant-wattage autotransformer. Ballast is copper wound and 100% factory tested. 180°C Class H insulation system. Medium based, UL listed 660W, 600V, 4KV socket.

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



Ordering Information

Example: PGR 150S 120 SF

Designation	Voltage
High Pressure Sodium	120
PGR 70S	208 ²
PGR 100S	240 ²
PGR 150S	277
Metal Halide	347
PGR 100M	480 ³
PGR 150M	TB ⁴
PGR 175M	
PGR 200M ¹	

Options/Accessories
Options (shipped installed)
SF Single fuse (120V, 277V, 347V) ⁵
DF Double fuse (208V, 240V, 480V) ⁵
EC Emergency circuit (100W max. 120V) ^{6,7}
QRS Quartz restrike system (100W max. 120V) ⁶
QRSTD Quartz restrike system time delay (100W max. 120V) ^{6,8}
CR Enhanced corrosion resistance
CRT Non-stick protective coating ⁹
KW1 KiloWatch® 120V control relay ^{10,11}
HA 40°C ambient (not available with EC option or 200M ordered with 480V together)
TP Tamperproof lens screws
PC Polycarbonate refractor/lens
LP Lamp factory installed (N/A with TB)
DN Downlight focused
SCWA Super CWA pulse start ballast (n/a HPS or 100M)
CSA CSA Certified
NOM NOM Certified (consult factory)

Shipped separately

OJB	Offset junction box ¹²
YK	Yoke mount
BDS	Bird deterrent shroud

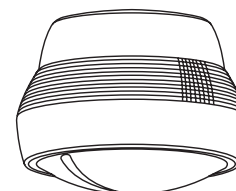
For optional Architectural Colors, see page 485.

NOTES:

- 1 Must be ordered with SCWA.
- 2 In Canada, available in 175W metal halide only.
- 3 Available in 175M, 200M and 150S only.
- 4 Optional multi-tap ballast (120V, 208V, 240V, 277V). In Canada 120V, 277V, 347V; ships as 120V/347V.
- 5 Not available with multi-tap ballast.
- 6 Lamp not included.
- 7 Not available with HA option.
- 8 Not available with KiloWatch®.
- 9 Black finish only.
- 10 For specific ordering information, refer to the KiloWatch brochure or consult factory.
- 11 Consult factory for availability in Canada.
- 12 Required when pendant is free-swinging.

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

	PGR
Height	11 1/2 (29.2)
Width	15 (38.1)
Max weight	20 lbs (9 kg)



KPS



Garage Lighting, Ceiling-Mount

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, hydro-formed 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-interchangeable 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.

Ordering Information

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

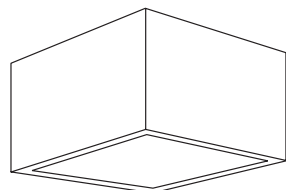
Designation	Distribution	Voltage	Options/Accessories
<u>High Pressure Sodium</u>			
KPS 50S	R2 Type II	120	<u>Options (shipped installed)</u>
KPS 70S	Roadway	208¹	SF Single fuse (120V, 277V, 347V)
KPS 100S	R3 Type III	240¹	DF Double fuse (208V, 240V, 480V)
KPS 150S	Asym	277	QRS Quartz restrike system (100W max., 120V lamp not included)
<u>Metal Halide</u>			
KPS 100M	R4 Type IV FT	347	EC Emergency circuit (100W max., 120V lamp not included)
KPS 150M	R5 Type V	480¹	MOG Mogul-base socket
KPS 175M	Sym.	TB²	CR Enhanced corrosion resistance
			NB Natural brushed (SS option only)
			HS House-side shield (R3/R4 only)
			YK Yoke mount
			SS Stainless steel housing ³
			RMG Recessed mount 2" x 2" (grid ceiling) ³
			WL Wet location
			SCWA Super CWA pulse start ballast, requires R5 distribution, (n/a HPS or 100M)
			CSA CSA Certified
			NOM NOM Certified (consult factory)
			For optional Architectural Colors, see page 485.
			<u>Accessories (shipped separately)</u>
			VG Vandal guard

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

	<i>KPS</i>
Length	16 ³ / ₄ (42.6)
Width	16 ³ / ₄ (42.6)
Depth	10 ¹ / ₂ (26.7)
Max weight	36 lbs (16 kg)

NOTES:

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



Die-Cast, Cutoff Flat Lens/Drop Lens

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 – Ballast is high-reactance, high-power factor (150W) or high-power factor, constant-wattage autotransformer (175-400W MH & HPS).

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. **For covered ceiling, mount on concrete, steel or aluminum. Not for use in dwellings.** UL listed for 25° C ambient temperature.

Canopy Lighting

KACM

Contour®



Optional white finish shown.
Standard finish is dark bronze.

Ordering Information

Designation	Distribution	Voltage	Mounting
<u>High Pressure Sodium</u>	FP Flat prismatic lens (C73T)	120	YK Yoke
KACM 150S	DPA Drop prismatic lens (Acrylic)	208²	
KACM 250S	DPP Drop prismatic lens (Polycarbonate)	240²	
KACM 400S		277	
<u>Metal Halide</u>		347	
KACM 150M		480²	
KACM 175M		TB³	
KACM 200M¹			
KACM 250M			
KACM 320M¹			
KACM 350M¹			
KACM 400M			

Example: KACM 400M FP 120

Options/Accessories
SF Single fuse (120V, 277V, 347V) n/a TB
DF Double fuse (208V, 240V, 480V) n/a TB
QRS Quartz restrrike system (250W max, 120V lamp not included)
EC Emergency circuit (lamp not included, 250W max.)
YK Yoke mount
TC Thru-wire conduit tee capability
SCWA Super CWA pulse start ballast (n/a HPS or 175M)
CSA CSA Certified
NOM NOM Certified (consult factory)

Shipped separately⁴

KACVG Vandal guard⁵

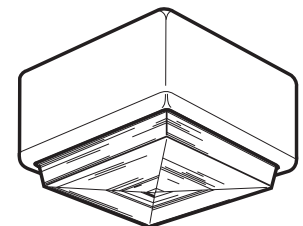
KACWG Wire guard

NOTES:

- 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.
- May be ordered as an accessory.
- FP lens only.

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

	KACM
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	40 lbs (18.1 kg)



- C22** 12-3 SEO cord (2' prewired)*
C42 14-3 SEO cord (2' prewired)*
C62 16-3 SEO cord (2' prewired)*
CV3P 3 ft. of 16-3 SEO cord pre-wired w/3 prong plug for use with prewired cages and crossarms. Must use matching receptacle, provided by others. Not available with 1500W-120V.
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 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).

* Other cord lengths available. Consult factory.

- DF** Double Fuse. Use with 208V, 240V, 480V. Not available for Multi-tap ballast. In-line, time-delay type fusing isolates faulty luminaire from circuit fusing.
EC Emergency circuit. Lamp not included.
ELDW Integral emergency battery system for compact fluorescent units.
FG Festoon outlet. Duplex ground fault receptacle. Cast box.
KW1 KiloWatch 120V control relay.
KW4 KiloWatch 277V control relay.
LS Lamp support. Mogul-base socket only.
MR1 Outdoor non-encapsulated remote ballast.
MR6 Indoor epoxy-encapsulated remote ballast.
PE Photoelectric cell. (Button-type) Not available for multi-tap ballast or 480V.
PER NEMA twist-lock photocontrol receptacle. Photocontrol not included. Shipped installed.
PE1 NEMA twist-lock photocontrol. 120V, 208V, 240V. Shipped separately.

- PE3** NEMA twist-lock photocontrol. 347V. Shipped separately.
PE4 NEMA twist-lock photocontrol. 480V. Shipped separately.
PE7 NEMA twist-lock photocontrol. 277V. Shipped separately.
SC Shorting cap for PER. Ships as SC U.
QRS Quartz restrike system. Activates when power interruption causes H.I.D. 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 H.I.D. 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.
SF Single fuse. Use with 120V, 277V, 347V. Not available for multi-tap ballast. In-line, time-delay type fusing isolates faulty luminaire from circuit fusing.

Area Lighting																	
	C22	C42	C62	CV3P	DF	EC	FG	KW1	KW4	LS	MR1	MR6	PE	PER	QRS	QRSTD	SF
KSE					■	■				■ ¹				■	■		■
KSF					■	■				■ ²				■	■		■
KAD					■	■								■	■		■
KAC					■	■								■	■		■
KVE					■	■				■ ³				■	■		■
KVR					■	■				■				■	■		■
KVS					■	■				■ ³				■	■		■
KAR					■	■				■ ⁴				■	■		■
KKS					■	■								■	■		■
KKR					■	■								■	■		■
KQS					■	■				■				■	■		■
Aeris					■	■								■	■		■
KVF					■	■		■	■					■	■	■	■

Floodlighting																	
	C22	C42	C62	CV3P	DF	EC	FG	KW1	KW4	LS	MR1	MR6	PE	PER	QRS	QRSTD	SF
KFL					■	■ ⁶					□	□	■		■ ⁶		■
TFA	■	■	■		■	■				■ ⁷				■	■	■	■
TFR	■	■	■		■	■				■				■	■		■
TFL	■	■	■		■	■				■				■	■		■
TFM	■	■	■		■ ⁵								■				■ ⁷
55					■	■					□			■	■		■
95					■	■					□			■	■		■
170S					■	■								■	■		■

NOTES:

- 1 KSE2 only
- 2 KSF2/3 only
- 3 KVE/KVS size 3 only
- 4 KAR2 only
- 5 Not available in TA distribution
- 6 KFL3 only
- 7 Standard on 1000W TA & RN distributions

■ = Available as an option, shipped installed

Building-Mounted

	C22	C42	C62	CV3P	2DC12	DC12	DF	EC	ELDW	FG	KW1	KW4	LS	MR1	MR6	PE	PER	QRS	QRSTD	SF
TWH							■	■					■			■	■	■	■	■
TWP							■	■								■		■	■	■
TWA							■	■								■		■		■
TWAC					■	■	■	■								■		■		■
TWL							■									■				■
WFL							■	■ ¹								■		■ ²		■
WSR						■	■	■	■							■		■		■
WST						■	■	■	■							■		■		■

Site Lighting

	C22	C42	C62	CV3P	DF	EC	FG	KW1	KW4	LS	MR1	MR6	PE	PER	QRS	QRSTD	SF
KBA					■		■										■
KBC					■		■										■
KBD					■		■										■
KBE					■		■										■
KBR					■		■										■
KBS					■		■										■
KL					■	■							■ ³		■		■

Garage Lighting

	C22	C42	C62	CV3P	DF	EC	FG	KW1	KW4	LS	MR1	MR6	PE	PER	QRS	QRSTD	SF
PGR					■	■		■							■	■	■
KPS					■	■		■ ⁴	■ ⁴						■	■	■
KACM					■	■									■		■

Sportslighting

	C22	C42	C62	CV3P	DF	EC	FG	KW1	KW4	LS	MR1	MR6	PE	PER	QRS	QRSTD	SF
TSP	■	■	■	■	■	■									■		■
TV	■	■	■	■	■	■				■				■	■		■

For electrical system compability (**SCWA, CWA, CWI, XHP, RHP, RNP**) please see individual product specification sheet or specific page in this catalog.

NOTES:

- 1 Size 3 only
- 2 Size 3 only N/A 480V
- 3 BBW only
- 4 R5 distribution only

Architectural Colors

Powder finish. Add designation as suffix to catalog number, KL series available in DDB, DNA, DBL and DWH only. Additional architectural colors are available. See Architectural Colors brochure on www.lithonia.com.

Standard Colors

- DDB** Dark bronze (standard)
DBL Black
DWH White

Classic Colors

- DMB** Medium bronze
DNA Natural aluminum
DGC Charcoal gray*
DSS Sandstone
DSB Steel blue*
DTG Tennis green*
DBR Bright red*

* Not available with TWP, TWA, TWAC or TWL.

Fixture Finishes

- ADB** Anodized dark bronze. Architectural Class 1. Round housing only for KAR2, KKR, KQR and certain 8" KB bollards. Add as suffix to catalog number.
- CR** Clear polyester coating for additional protection against some corrosive atmospheres. Consult factory for corrosive compatibility. Not available on KL.

- = Available as an option, shipped installed
 □ = Available as an accessory, shipped separately

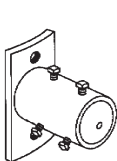
		AS	KSE	KSF	KAD	KAC	KVE	KVR	KVS	KAR	KKS	KKR	KQS	KVF
DA12P	Degree mounting arm. 30° max. uptilt in 5° increments. Single or twin 180° config. for KVS.		□	□					□					
DA12WB	Degree arm for wall. 30° max. uptilt in 5° incr. Single or twin 180° config. for KVS.		□	□					□					
DAD12P	Degree mounting arm. 30° max. uptilt, 5° incr.				□	□				□				
DAD12WB	Degree arm for wood pole or wall. 30° max. uptilt, 5° incr.				□	□				□				
HS	House-side shield (consult factory for specifics)	■	□	□	□		■	■		■			■	□
KMA	Mast arm mounting for area lighting. 6" min. arm length. Use for 2 $\frac{3}{8}$ " OD pipe.	□	□	□	□	□			□ ¹	□				□
KTMB	Twin mounting bar square mounting arms. Mounts on T25 (2 $\frac{7}{8}$ " OD tenon by 5" tall minimum).		□	□	□	□			□	□				□
MA	Master arm for single/twin 180° configuration, internal fitter (Size 3 only).								■					
MB	Mounting bracket. Use size 1 housing with KSF, KSE.		□	□										
PT4	Post-top round pole only (4" OD open-top pole).						■	■						■
PT45	Post-top round pole only (4 $\frac{1}{2}$ " OD open-top pole).						■	■						■
PT5	Post-top. Must use with round pole only for KVR. (5" OD open-top pole)						■	■						■
PT6	Post-top. Must use with round pole only for KVR. (6" OD open-top pole)						■	■						
RP_x	Round pole mounting arm.	■	■	■	■	■	■	■	■	■				■
RPF	Round pole fitter.												■	
RPF20	Round pole fitter (2 $\frac{3}{8}$ " OD tenon).						□	□						
RPF25	Round pole fitter (2 $\frac{7}{8}$ " OD tenon).						□	□						

For arm and/or bracket lengths, see product specification sheet or specific product page in this catalog.

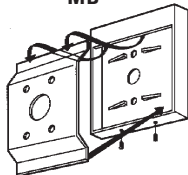
NOTES:

- 1 Size one housing only.

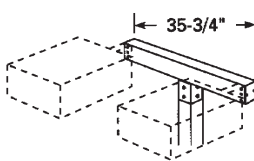
KMA



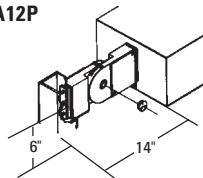
MB



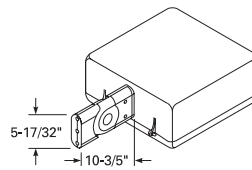
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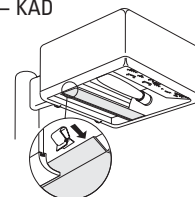
DA12P



DAD12P



HS – KAD



Tenon Slipfitters for Arm-Mounted Luminaires

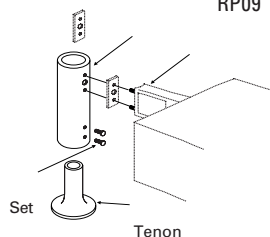
Use with all arm-mounted luminaires. When ordered, fixture must include round pole arm (RP_x) or pole degree aiming arm (DA12P or DAD12P). To order, locate catalog number from chart below based on tenon size and mounting configuration. Example: For 3 fixtures at 120°, using a 2-7/8" tenon, catalog number is **T 25-320**. Shipped separately. Order as separate catalog numbers. **For Aeries fixture specify AS.**

Example: AST20-190.

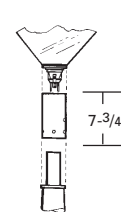
Tenon OD	1 fixture	2 fixtures at 180°	2 fixtures at 90°	3 fixtures at 120°	3 fixtures at 190°	4 fixtures at 90°
2-3/8"	T 20-190	T 20-280	T 20-290*	T 20-320*	T 20-390*	T 20-490*
2-7/8"	T 25-190	T 25-280	T 25-290*	T 25-320*	T 25-390*	T 25-490*
4"	T 35-190	T 35-280	T 35-290*	T 35-320	T 35-390*	T 35-490*

* RP09 must be used with KSF, KVS, KT or KSE.

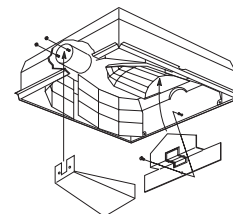
Slipfitter RP09



Tenon Slipfitter for KK Series



HS – KSF



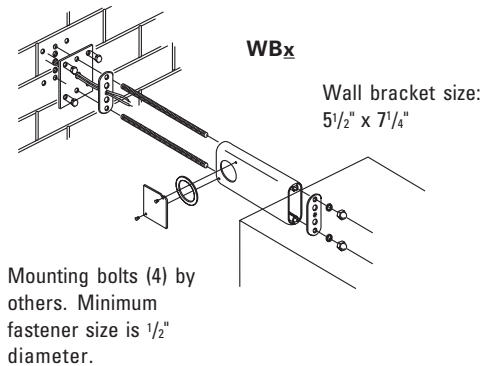
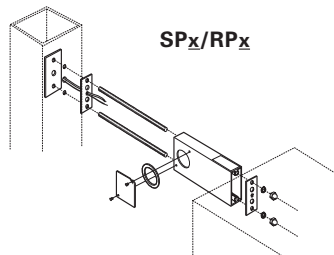
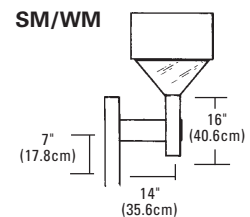
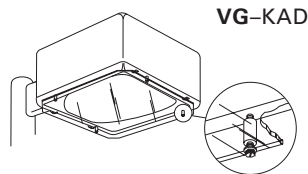
■ = Available as an option, shipped installed
 □ = Available as an accessory, shipped separately

		AS	KSE	KSF	KAD	KAC	KVE	KVR	KVS	KAR	KKS	KKR	KQS	KVF
SM	Side mount assembly. One per luminaire.										□	□		
SP	Square pole mounting arm. Use 9" arm for two at 90°.	■	■	■	■	■	■	■	■	■				■
SPF	Square pole fitter.												■	
SPF20	Square pole fitter (2 $\frac{3}{8}$ " OD tenon).						□							
SPF25	Square pole fitter (2 $\frac{7}{8}$ " OD tenon).						□							
T20	Tenon slipfitter (for 2" pipe tenon 2 $\frac{3}{8}$ " OD).										□	□		
T25	Tenon slipfitter (for 2 $\frac{1}{2}$ " pipe tenon 2 $\frac{7}{8}$ " OD).											□		
VG³	Vandal guard.	■	□	□	□	□ ¹			□ ²					□
WB_x	Wall mount for J-box. (Aeris only order WBA).	■	■	■	■	■	■			■				■
WM	Wall mount. 16" arm is used with a wall plate.										□	□		
WW_x	Wood pole or wall for conduit stub 9" or 12".		■	■	■	■	■	■	■	■				■

For arm and/or bracket lengths, see product specification sheet or specific product page in this catalog.

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.



■ = Available as an option, shipped installed
 □ = Available as an accessory, shipped separately

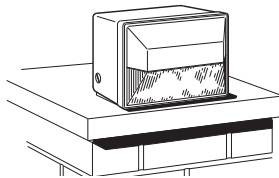
□ = Available as an accessory, shipped separately

		KBA	KBC	KBD	KBE	KBR	KBS	KL	TWA/ TWH TWP TWAC TWL WFL WSR/WST					
BBF	Backbox for flat surfaces.							■						
BBR	Backbox, recessed (ceiling, soffit mount).							■						
BBS	Backbox for stud wall construction.							■						
BBW	Backbox for surface wall installation.							■					□	□
EP1	Extension collar, 1½" deep. Order as TWLEP1.											□		
EP2	Extension collar, 2⅝" deep. Order as TWLEP2.											□		
FS	Full shield for IES cutoff								■	■				
PC	Polycarbonate lens. Standard on KL.	■	■	■	■	■	■	■						
R6S/R8S	Half-shield. Not for use with louvered bollards.	□	□	□		□								
S6S/S8S	Half-shield. Not for use with louvered bollards.				□		□							
SCL	Scribed Lens. Not available with louvered bollards.	■	■	■	■	■	■							
WG¹	Wireguard.								□	□	□	□ ²	□	□
VG¹	Vandal guard.								□				□	□
TWLMB	Mounting box, cast aluminum.											□		
UT5	Uptilt 5 degrees													□
DFL	Diffusing lens													■
WLU	Wet location door for up orientation													■
IBS	Internal backlight shield													■
LC90	Lock at 90° for full cutoff												■	

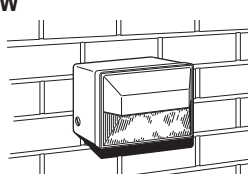
NOTES:

- 1 Specify family prefix.
- 2 Order TWA WG with TWLMB, EP or HPF.

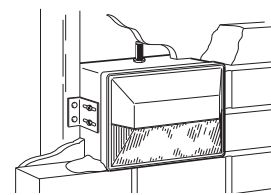
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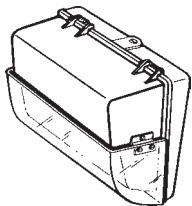
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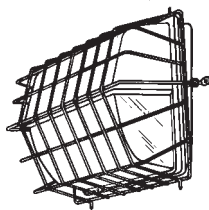
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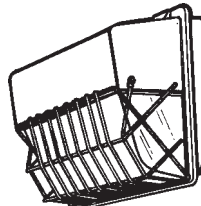
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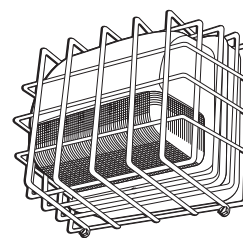
TWPWG



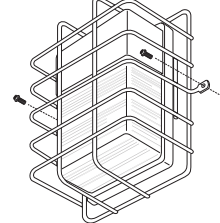
TWHWG



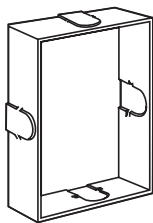
TAWWG



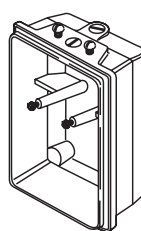
TWLWG



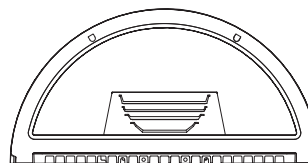
EP1



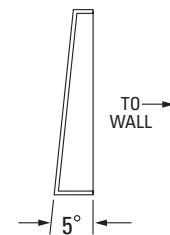
TWLMB



IBS



UT5

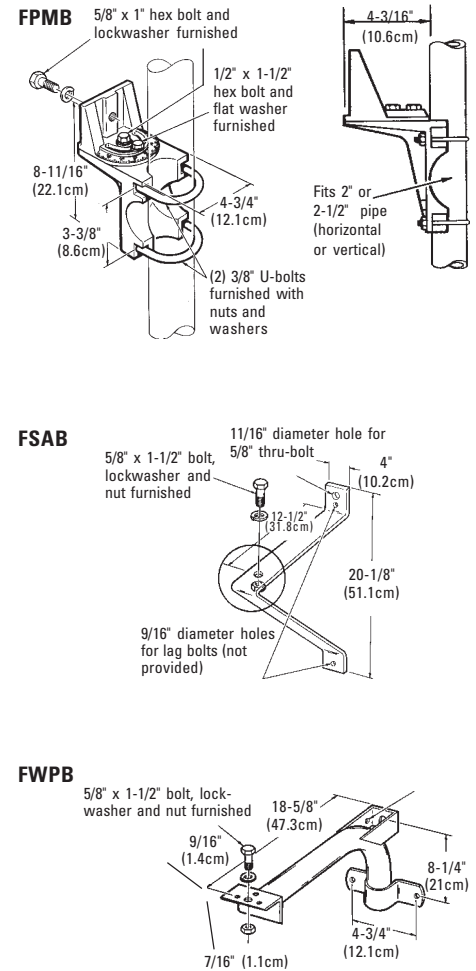
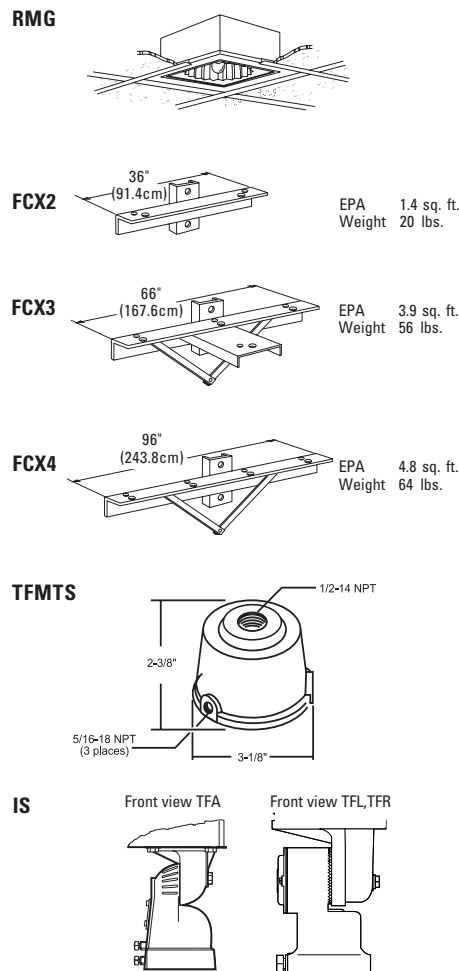
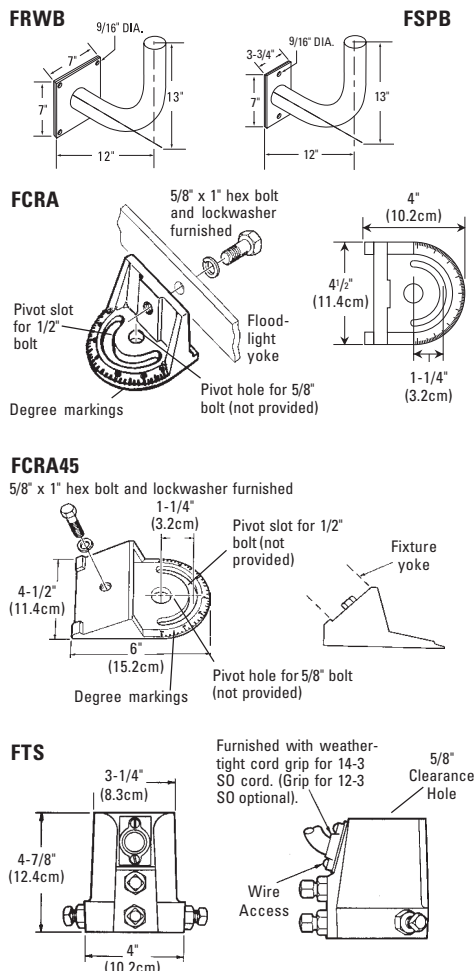


Floodlighting, Garage Lighting and Sportlighting

- = Available as an option, shipped installed
□ = Available as an accessory, shipped separately

		PGR	KPS	KACM	TSP	TV	KFL	55	95	170S	TFA	TFR	TFL	TFM
RMG	Recessed mount in grid ceiling.		■											
SS	Stainless steel ceiling mount housing (alloy 304 stainless steel).		■											
AH	Above horizontal aiming.					■								
CF	Charcoal filter. Must use with heavy-duty shroud.				■	■								
FCRA	Crossarm adapter for horizontal mounting. *				□	□	□	□	□	□	□	□	□	□
FCRA45	Crossarm adapter for horizontal mounting 45°. *					□	□	□	□	□	□	□	□	□
SLR	Stainless steel lens rings.				■	■								
IBL	Internal bottom louver. Cannot order IBL and TVUV together.					■								
FRWB	Radius wall bracket. Standard finish is DDB.			□	□	□	□	□	□	□	□	□	□	□
FSAB	Steel angle bracket. Standard finish is DDB.				□	□	□	□	□	□	□	□	□	□
FSPB	Steel square pole bracket (for use with existing poles). Standard finish is DDB.										□	□	□	□
FPMB	Pipe/wood/pole/wall mounting bracket. Mounts to 2" schedule 40 pipe.				□	□	□	□	□		□	□	□	□
FWPB	Wall/pipe bracket.						□	□	□	□	□	□	□	□
FTS	Tenon slipfitter. Fits 2 7/8" to 2 1/8" OD tenon.				□		□	□	□	□	□	□	□	□
TVTS	Tenon slipfitter. Fits 2 7/8" to 2 1/8" OD tenon.					■								
TFMTS	Tenon slipfitter. For 1/2" threaded knuckle. Fits 1 1/4" to 2 3/8" OD tenon.													□
TVUV	Upper visor. Cannot be ordered with IBL.					□								
FCX2	2-light wood pole crossarm.				□	□	□	□	□	□	□	□	□	□
FCX3	3-light wood pole crossarm.				□	□	□	□	□	□	□	□	□	□
FCX4	4-light wood pole crossarm.				□	□	□	□	□	□	□	□	□	□
TVWC	Wood crossarm mount bolt 5/8" - 11UNC, 8" length.				□	□								
YK	Yoke mount.	■	■	■			■	■	■	■	■	■	■	■
IS	Integral slipfitter. Fits 2 7/8" max OD with TFA, 2 3/8" with TFL and TFR.										■	■	■	

* Order as separate catalog number.



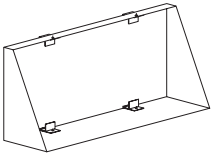
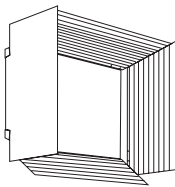
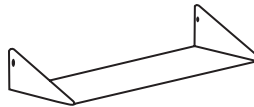
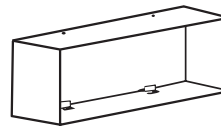
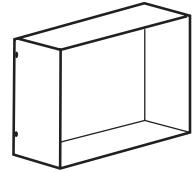
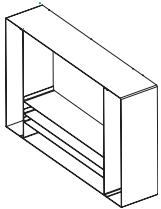
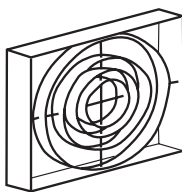
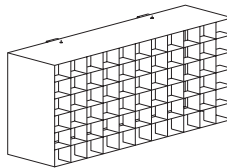
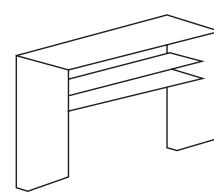
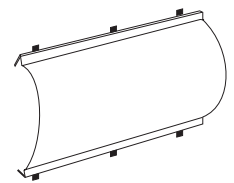
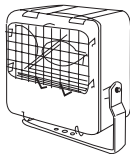
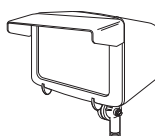
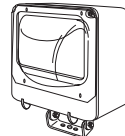
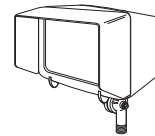
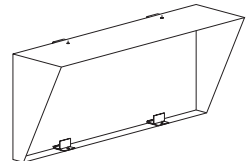
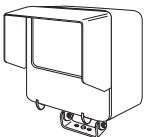
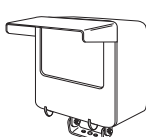
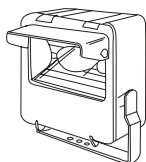
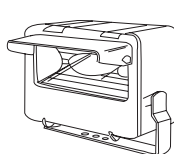
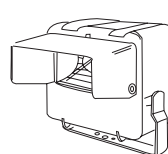
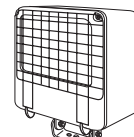
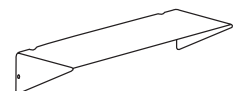
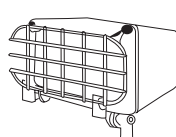
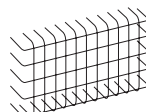
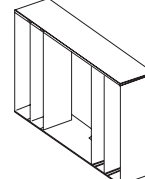
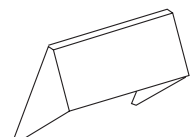
Floodlighting

■ = Available as an option, shipped installed
 □ = Available as an accessory, shipped separately

		KFL	55	95	170S	TFA	TFR	TFL	TFM
BD²	Barn doors	□							
BV²	Bottom visor	□	□	□					
BVG²	Bubble vandal guard	□							
CV²	Concentric visor			□					
EV²	Eggcrate visor	□							
EY	Extended yoke						■	■	
FV²	Full visor	□	□	□		□	□	□	□
GV²	Glare visor		□	□					
HLV²	Horizontal louver	□							
VG^{1,2}	Vandal guard. Order TFAVG for TFA.					□	□	□	□
UV	Upper visor. Specify family designation.	□	□	□	□	□	□	□	□
VLV	Vertical louver	□							
WG	Wire guard	□				□	□	□	□

NOTES:

- 1 Vandal guards are compatible with all wattages.
 2 Specify family as prefix.

BV - BOTTOM VISOR (KFL)**BD - BARN DOORS (KFL)****BV - BOTTOM VISOR (55/95)****FV - FULL VISOR (KFL)****FV - FULL VISOR (55/95)****HLV - HORIZONTAL LOUVER (KFL)****CV - CONCENTRIC VISOR (95)****EV - EGGCRATE VISOR (KFL)****GV - GLARE VISOR (55/95)****BVG - VANDAL GUARD (KFL)****TFMVG/TFRVG****TFAWG****TFMUV/TFRUV****TFLVG****TFMFV/TFRFV****UV - UPPER VISOR (KFL)****TFLFV****TFLUV****TFAUV****TFAVG****TFAFV****TFLWG****UV - UPPER VISOR (55/95)****TFMWG/TFRWG****WG - WIREGUARD****VLV - VERTICAL LOUVER (KFL)****UV - UPPER VISOR (170)**

Floodlighting

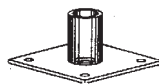
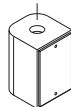
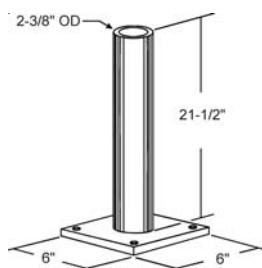
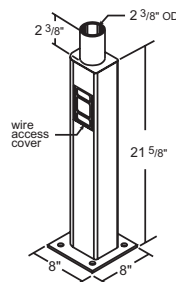
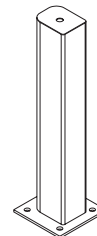
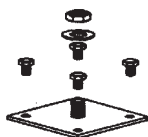
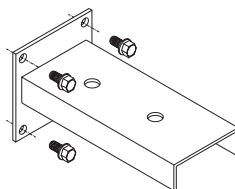
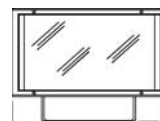
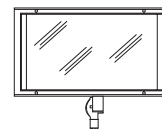
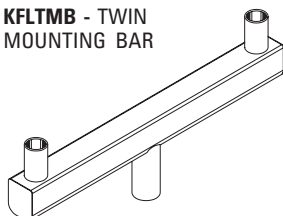
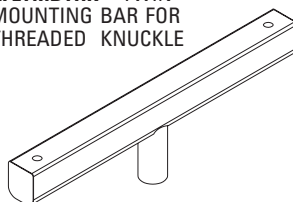
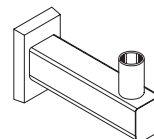
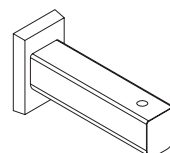
■ = Available as an option, shipped installed

□ = Available as an accessory, shipped separately

		KFL	55	95	170S	TFA	TFR	TFL	TFM
AJB	Architectural J-box.	□							□
EWB	Extended wall bracket, yoke mount only.	□	□	□	□	□	□	□	
KFLTMB	Twin mounting bar.	□				□	□	□	□
KFLTMBTHK	Twin mounting bar for THK option. Only compatible with KFLTHK.	□							
MP	Mounting plate. (For use with yoke-mount option on fixture).	□	□	□		□	□	□	□ ¹
KFLSTM	Stanchion mount. Requires tenon slipfitter. (2 3/8" OD tenon)	□	□	□	□	□	□	□	□
KFLSTMTHK	Stanchion mount for THK option. (Use with THK mounting only or standard TFM).	□							□
THK	Threaded knuckle mount.	■							
TM	Tenon base mount. Use with slipfitter options. (2 3/8" OD teno)	□	□	□	□	□	□	□	□
KFLWMA	Wall mount arm. Requires IS, FTS or TFMTS.	□	□	□	□	□	□	□	□
KFLWMATHK	Wall mount arm for THK option.	□							
YK	Yoke mounting bracket.	■							■
STM	Stanchion mount. (2 3/8" OD tenon)	□	□	□	□	□	□	□	□

NOTES:

1 When used with TFM yoke a 3/8" bolt, two lockwashers and nuts must be furnished by others.

**TM - TENON
BASE MOUNT****AJB - ARCHITECTURAL
JUNCTION BOX****STM - STANCHION MOUNT****KFLSTM - STANCHION MOUNT****KFLSTMTHK - STANCHION
MOUNT FOR THREADED
KNUCKLE****MP - MOUNTING PLATE****EWB - EXTENDED
WALL BRACKET****YK - YOKE MOUNT****THK-THREADED
KNUCKLE MOUNT****KFLTMB - TWIN
MOUNTING BAR****KFLTMBTHK - TWIN
MOUNTING BAR FOR
THREADED KNUCKLE****KFLWMA - WALL-MOUNT****KFLWMATHK -
WALL-MOUNT ARM
FOR THREADED
KNUCKLE**

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
 $138^\circ (H) \times 119^\circ (V)$
 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.

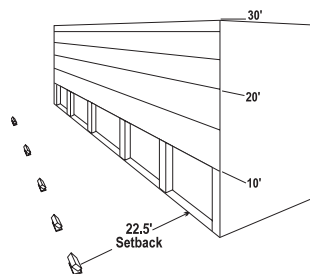
Facade Lighting Considerations:
 1. Setback
 2. Spacing
 3. Aiming

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.

$$\text{Setback distance} = \frac{3}{4} \times \text{building height}$$

$$\frac{3}{4} (30 \text{ ft.}) = 22.5 \text{ ft.}$$

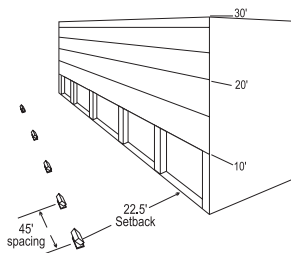


Spacing

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.

$$\text{Spacing} = 2 \times \text{setback distance}$$

$$22.5 \text{ ft.} \times 2 = 45 \text{ ft. apart}$$

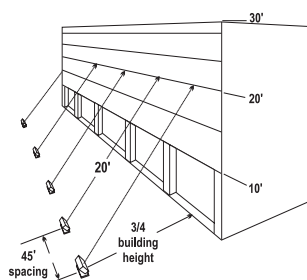


Aiming

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.*

$$\text{Aiming point} = \frac{2}{3} \times \text{building height}$$

$$\frac{2}{3} (30 \text{ ft.}) = 20 \text{ ft. high}$$



Sign Lighting

When lighting a sign with ground-mounted floodlights, there are three considerations: setback, spacing and aiming.

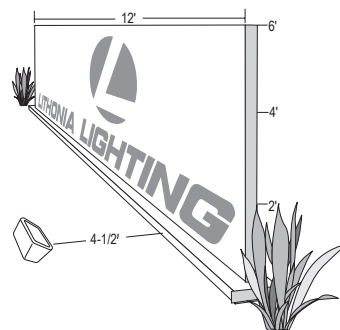
Sign Lighting Considerations:
 1. Setback
 2. Spacing
 3. Aiming

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.

$$\text{Setback distance} = \frac{3}{4} \times \text{sign height}$$

$$\frac{3}{4} (6 \text{ ft.}) = 4.5 \text{ ft.}$$

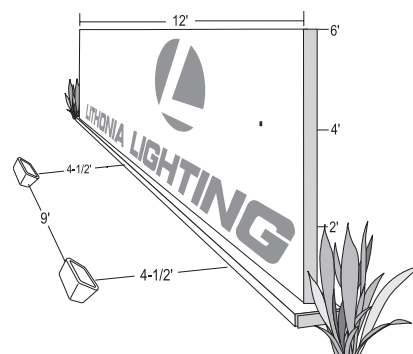


Spacing

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.

$$\text{Spacing} = 2 \times \text{setback distance}$$

$$4.5 \text{ ft.} \times 2 = 9 \text{ ft. apart}$$

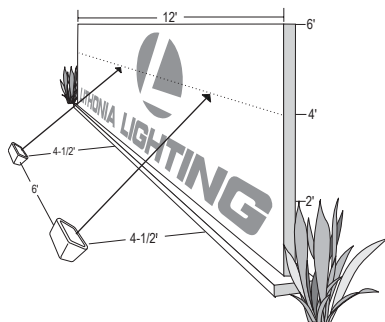


Aiming

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.*

$$\text{Aiming point} = \frac{2}{3} \times \text{sign height}$$

$$\frac{2}{3} (6 \text{ ft.}) = 4 \text{ ft. high}$$



Flag Lighting

Ground-mounted floodlights also can be used to light flags. Setback, spacing and aiming must all be considered.

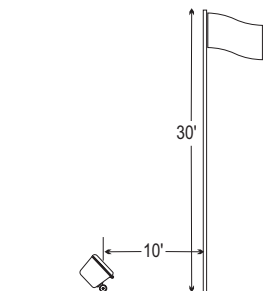
- Flag Lighting Considerations:**
1. Setback
 2. Spacing
 3. Aiming

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.

$$\text{Setback distance} = \frac{1}{3} \times \text{pole height}$$

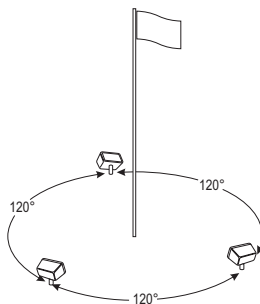
$$\frac{1}{3} (30 \text{ ft.}) = 10 \text{ ft.}$$



Spacing

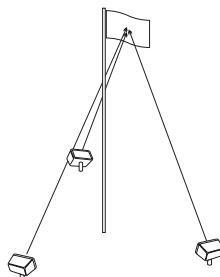
Ideally, three floodlights are recommended to light a flag. The floodlights should be placed approximately 120° apart.

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 are commonly used for general area lighting applications such as parking lots and storage yards. Mounting height, spacing, vertical aiming and horizontal aiming should be considered.

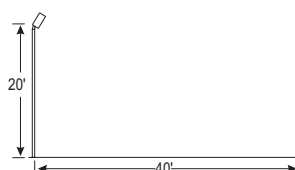
- General Lighting Considerations:**
1. Mtg. Height
 2. Spacing
 3. Vertical aiming
 4. Horizontal aiming

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.

$$\text{Mounting height} = \frac{1}{2} \text{ distance to be lighted}$$

$$\frac{1}{2} (40 \text{ ft.}) = 20 \text{ ft.}$$

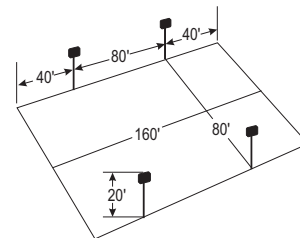


Spacing

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.

$$\text{Pole spacing} = 4 \times \text{mounting height}$$

$$4 (20 \text{ ft. pole}) = 80 \text{ feet between poles}$$

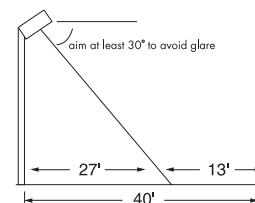


Vertical Aiming

A single floodlight uses the two-thirds rule of thumb for vertical aiming. The fixture is aimed $\frac{2}{3}$ 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.

$$\text{Aiming point} = \frac{2}{3} \text{ across distance to be lighted}$$

$$\frac{2}{3} (40 \text{ ft.}) = 27 \text{ ft. aiming point}$$

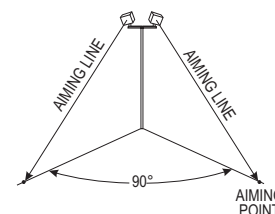


Additionally, to minimize glare, the recommended aiming point distance should never exceed twice the mounting height. If a pole is 20 feet high, the vertical aiming point should not exceed 40 feet out.

$$2 (20 \text{ ft. mtg. ht.}) = 40 \text{ ft.}$$

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 beams spread, the floodlights can be aimed up to 90° apart.



(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 (ft²), shown on the individual pole catalog pages. Determination of maximum EPA (ft²) 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 (ft²) 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 (ft²) 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. The map on page 495 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 (ft²), 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 (ft²) 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 495 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 (ft²) loading with the maximum EPA (ft²) 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 (ft²) 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 (ft²) and fixture weight loads to the next larger pole of the same mounting height.

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.

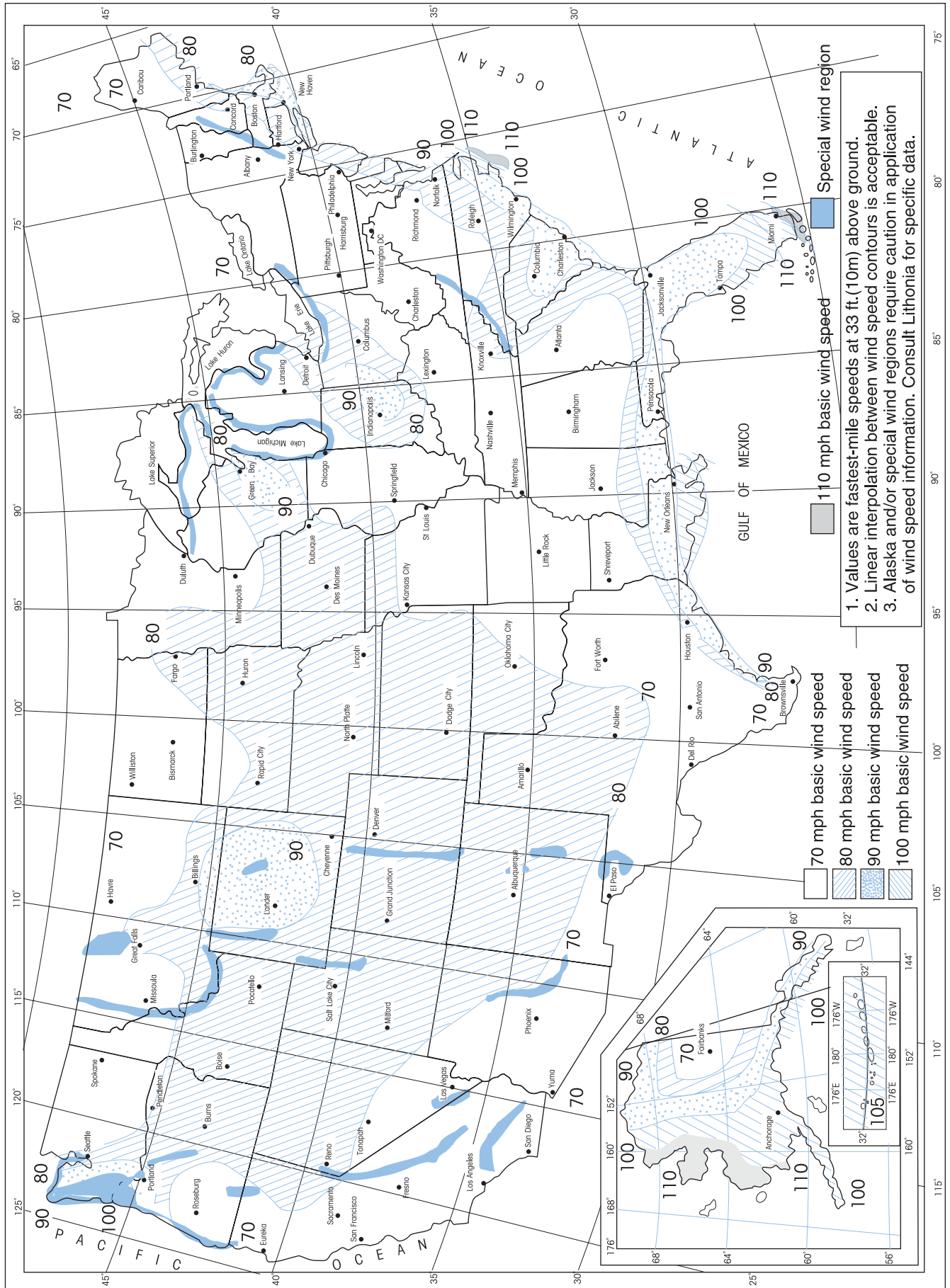
Ordering Information

Example: **SSA 16 4G DM19 DMB**

Shaft type	Nominal mounting height	Nominal shaft base size/wall thickness (in.)	Fixture mounting method	Options	Finish
RTA Round tapered aluminum	8-50 feet sportslighting poles up to 115'. See submittal sheets for specific information.	4 C 0.125	PT Open-top	See page 509	Architectural Colors ¹
RSA Round straight aluminum		5 E 0.156	<u>Tenon Mounting</u>		Polyester Powder
RSAH Round straight aluminum hinged		6 G 0.188	T20 2 3/8" OD (2" NPS)		<u>Standard Colors</u>
SSA Square straight aluminum		7 J 0.250	T25 2 7/8" OD (2 1/2" NPS)		DDB Dark bronze
SSAH Square straight aluminum hinged		8 K 0.312	T30 3 1/2" OD (3" NPS)		DWH White
RTS Round tapered steel		9 L 0.219	T35 4" OD (3 1/2" NPS)		DBL Black
STS Square tapered steel		10 P 0.375	<u>Drill Mounting</u>		BA Brushed Aluminum ²
STSH Square tapered steel hinged			DM19 1 at 90°		<u>Classic Colors</u>
RSS Round straight steel			DM28 2 at 180°		DMB Medium bronze
SSS Square straight steel			DM29 2 at 90°		DNA Natural aluminum
SSF Square straight fiberglass			DM39 3 at 90°		DSS Sandstone
RTF Round tapered fiberglass			DM49 4 at 90°		DGC Charcoal gray
RTFDB Round tapered fiberglass direct burial			DM32 3 at 120° (Round Poles)		DTG Tennis green
SPRTC Round tapered concrete sportslighting			<u>Aeris Drill Mounting</u>		DBR Bright red
STC Square tapered concrete			DM19AS 1 at 90°		DSB Steel blue
SPRTS Round tapered steel			DM28AS 2 at 180°		<u>Class 1 Architectural Anodize³</u>
			DM29AS 2 at 90°		ABL Black
			DM39AS 3 at 90°		ADB Dark bronze
			DM49AS 4 at 90°		ANA Natural
			DM32AS 3 at 120° (Round Poles)		<u>Existing Colors</u>
					MAEX Match existing

NOTES:

- 1 Additional architectural colors available; see Architectural Colors brochure on www.lithonia.com.
- 2 Aluminum poles only.
- 3 RTA, RSA, SSA only.



RSA

Features

Shaft – One-piece extruded 6063-T6 aluminum alloy with T6 temper. Circumferential satin-brushed finish. 4½" 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.

Round Straight Aluminum

Anchor Bolts – Top 12" is galvanized per ASTM-A153. 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 ⅜"-16 UNC ground bolt (not supplied).

Hand hole – Reinforced 3"x5" hand hole is located 18" above base. Cover and attachment hardware furnished.

Hardware – Stainless steel.

Top Cap – Cast-aluminum cap is provided for drill-mount poles.

Finish – Standard finish is brushed aluminum. Optional polyester powder paint and anodized finishes available.

Bolt Covers – A356 nut covers included with anchor base unless otherwise specified.

Ordering Information: See page 494 (Note: Poles are available only in U.S.)

INSTALLATION NOTES:

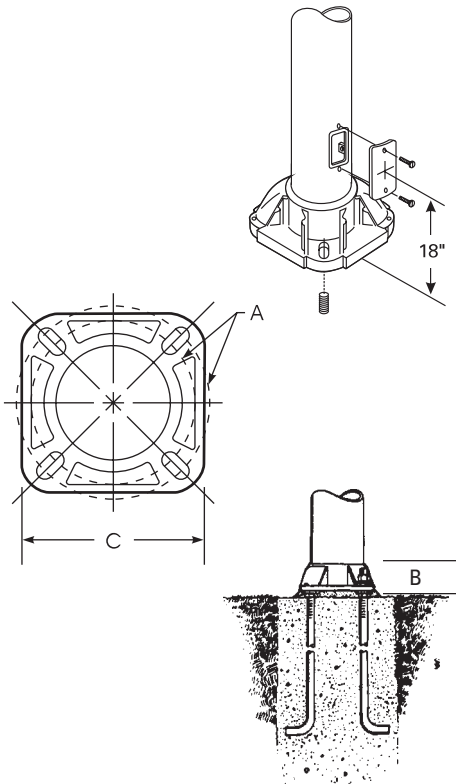
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

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:

- 1 Mounting Arrangement: (PT) Open Top; (T20) 2⅝" OD (2" NPS)
- 2 Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 511.



Technical Information

EPA (ft²) 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.)
RSA 8 4C	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
RSA 8 4-5C	8	4.5 x 8.0	0.125	14.6	11.3	9.1	175	7-1/8-8-3/8	3/4 x 18 x 3	30
RSA 8 4-5G	8	4.5 x 8.0	0.188	21.8	17.0	13.7	225	7-1/8-8-3/8	3/4 x 18 x 3	38
RSA 10 4C	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
RSA 10 4-5C	10	4.5 x 10.0	0.125	10.6	8.1	6.5	133	7-1/8-8-3/8	3/4 x 18 x 3	34
RSA 10 4-5G	10	4.5 x 10.0	0.188	16.3	12.6	10.1	175	7-1/8-8-3/8	3/4 x 18 x 3	43
RSA 10 5C	10	5.0 x 10.0	0.125	13.6	10.6	8.5	150	7-1/2-9-1/2	3/4 x 18 x 3	36
RSA 12 4C	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
RSA 12 4-5C	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
RSA 12 4-5G	12	4.5 x 12.0	0.188	12.7	9.7	7.7	185	7-1/8-8-3/8	3/4 x 18 x 3	50
RSA 12 5C	12	5.0 x 12.0	0.125	10.3	8.0	6.3	150	7-1/2-9-1/2	3/4 x 18 x 3	36
RSA 12 5E	12	5.0 x 12.0	0.156	13.2	10.3	8.2	200	7-1/2-9-1/2	3/4 x 18 x 3	44
RSA 12 5G	12	5.0 x 12.0	0.188	16.2	12.6	10.1	225	7-1/2-9-1/2	3/4 x 18 x 3	53
RSA 14 4C	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
RSA 14 4-5C	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
RSA 14 4-5G	14	4.5 x 14.0	0.188	9.7	7.3	5.8	190	7-1/8-8-3/8	3/4 x 18 x 3	56
RSA 14 5C	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
RSA 14 5E	14	5.0 x 14.0	0.156	10.3	8.0	6.3	125	7-1/2-9-1/2	3/4 x 18 x 3	47
RSA 14 5G	14	5.0 x 14.0	0.188	12.8	9.9	7.9	150	7-1/2-9-1/2	3/4 x 18 x 3	56
RSA 16 4C	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
RSA 16 4-5C	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
RSA 16 4-5G	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
RSA 16 5C	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
RSA 16 5E	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
RSA 16 5G	16	5.0 x 16.0	0.188	10.1	7.8	6.1	200	7-1/2-9-1/2	3/4 x 18 x 3	60
RSA 16 6E	16	6.0 x 16.0	0.156	13.6	10.6	8.4	225	8-3/4-10-1/4	3/4 x 30 x 3	53
RSA 16 6G	16	6.0 x 16.0	0.188	16.8	13.0	10.4	245	8-3/4-10-1/4	3/4 x 30 x 3	78
RSA 18 4-5G	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
RSA 18 5C	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
RSA 18 5E	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
RSA 18 5G	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
RSA 18 6G	18	6.0 x 18.0	0.188	13.9	10.7	8.5	225	8-3/4-10-1/4	3/4 x 30 x 3	86
RSA 20 4-5G	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
RSA 20 5C	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
RSA 20 5E	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
RSA 20 5G	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
RSA 20 6E	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
RSA 20 6G	20	6.0 x 20.0	0.188	11.8	9.1	7.1	200	8-3/4-10-1/4	3/4 x 30 x 3	110
RSA 25 4-5G	25	4.5 x 25.0	0.188	1.3	—	—	100	7-1/8-8-3/8	3/4 x 18 x 3	89
RSA 25 6E	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
RSA 25 6G	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
RSA 30 6G	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

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
4"	6½"-8¼"	3¼"	8¾"	ABRSA-4	AB18-0	PJ50057
4½"	7⅞"-8⅜"	3¼"	8½"	ABRSA-4-5	AB18-0	PJ50040
5"	7½"-9½"	3¼"	9¼"	ABRSA-5	AB18-0	PJ50058
6"	8¾"-10¼"	3½"	10¼"	ABRSA-6	AB30-0	PJ50059

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 – Cast-aluminum cap is provided for drill-mount poles.

Finish – Standard finish is brushed aluminum. Optional polyester powder paint and

anodized finishes available.

Bolt Covers – A356 nut covers shall be included with each anchor base unless otherwise specified.

Technical Information

EPA (ft²) 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.)
RTA 205C	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 205G	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 206G	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 207E	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 256E	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 257E	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 258E	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 258G	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 307E	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 308E	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 308G	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 3010G	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 358E	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 358G	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 35BJ	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 3510G	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 398G	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 39BJ	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 3910G	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 3910J	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

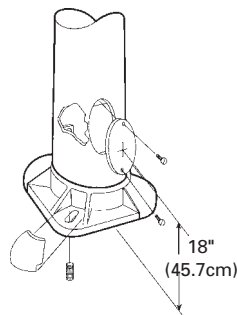
Ordering Information: See page 494
(Note: Poles are available only in U.S.)

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.

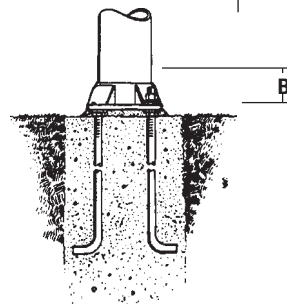
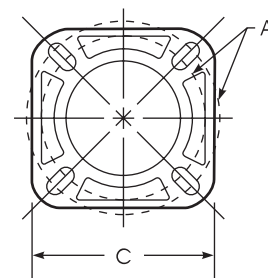


Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
5"	7 1/2"-9 1/2"	3 1/4"	9 1/4"	ABRTA-5	AB18-0	PJ50032
6"	9"-10"	3 1/2"	10"	ABRTA-6	AB30-0	PJ50033
7"	9 7/8"-11 1/4"	4 1/8"	10 1/2"	ABRTA-7	AB36-0	PJ50034
8"	11-12"	4 1/4"	11 1/2"	ABRTA-8	AB36-0	PJ50035
10"G	14 1/4"-16 1/4"	4 1/2"	14 1/2"	ABRTA-10G	N/A	PJ50036
10"J	14 1/2"-16"	5"	14 1/2"	ABRTA-10J	N/A	PJ50063

NOTES:

- 1 Mounting Arrangement: (PT) Open Top; (T20) 2 3/8" OD (2" NPS)
- 2 Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 511.



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

Round Straight Aluminum, Hinged

sections of the hinged base are joined by a $\frac{3}{4}$ " diameter solid aluminum pivot rod. The tilting section of the hinged base is held in a vertical position by three $\frac{1}{2}$ "-13 x $2\frac{1}{2}$ " 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 – Cast-aluminum cap is provided for drill-mount poles.

Finish – Standard finish is brushed aluminum. Optional polyester powder painted and anodized finishes available.

Ordering Information: See page 494
(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 (ft²) with 1.3 gust

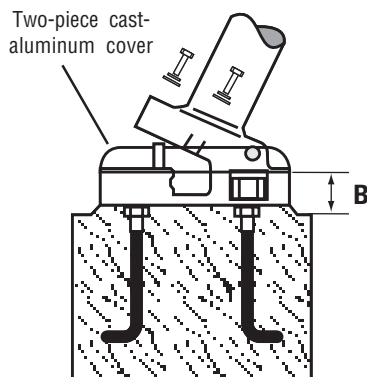
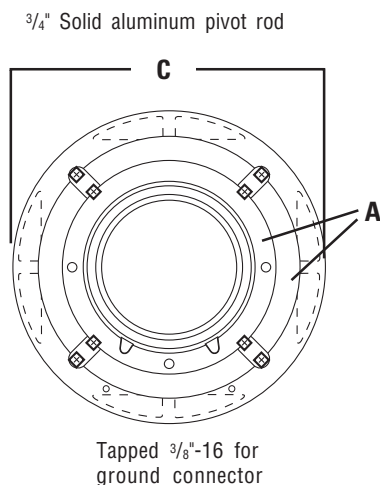
Catalog number	Nom. mount. ht. (ft.)	Pole shaft size (in. x in. x ft.)	Wall thick. (in.)	80 mph	90 mph	100 mph	Max. wt.	Bolt circle (in.)	Bolt size (in. x in. x in.)	Approx. ship wt. (lbs)
RSAH 104C	10	4 x 4 x 10	0.125	8.2	6.1	4.7	100	8-1/2-10	3/4 x 18 x 3	43
RSAH 144C	14	4 x 4 x 14	0.125	4.4	3.0	2.1	100	8-1/2-10	3/4 x 18 x 3	50
RSAH 145E	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
RSAH 164C	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	54
RSAH 165C	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
RSAH 166E	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
RSAH 185C	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
RSAH 185G	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
RSAH 205C	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
RSAH 205G	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
RSAH 206G	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	Warehouse anchor bolt description	Template number
4"	8 $\frac{1}{2}$ "-10"	3 $\frac{1}{2}$ "	12 $\frac{5}{8}$ "	ABRSAH-4	AB18-0	PJ50060
5"	8 $\frac{1}{2}$ "-10"	3 $\frac{1}{2}$ "	12 $\frac{5}{8}$ "	ABRSAH-5	AB18-0	PJ50061
6"	8 $\frac{1}{2}$ "-10"	3 $\frac{1}{2}$ "	12 $\frac{5}{8}$ "	ABRSAH-6	AB30-0	PJ50062

NOTES:

- 1 Mounting arrangement: (PT) Open Top; (T20) 2 $\frac{1}{8}$ " OD (2" NPS)
- 2 Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 511.



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 $\frac{3}{4}$ " or 1" diameter steel rod having minimum-yield strength of 55,000 psi.

Grounding – Ground lug located immediately inside hand hole is tapped for $\frac{3}{8}$ "-16 UNC grounding bolt (by others).

Hand hole – Rectangular reinforced hand hole having nominal dimensions 2" x 4" (4" sq.) or 2 $\frac{1}{2}$ " 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 – Weatherproof, cast-aluminum cap is provided, for drill-mount poles.

Finish – Brushed aluminum is standard; optional polyester powder paint and

anodized finishes available.

Bolt Covers – Nut covers included with each anchor base.

Technical Information

EPA (ft²) 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.)
SSA 84C	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 104C	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 124C	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 144C	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 154C	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 164C	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 164G	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 165G	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 184C	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 184G	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 185G	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 204C	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 204G	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 205G	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 206G	20	6.0 x 20.0	0.188	22.0	15.9	11.6	230	12-13	1 x 36 x 4	155
SSA 206J	20	6.0 x 20.0	0.250	30.4	22.6	17.0	300	12-13	1 x 36 x 4	202
SSA 255G	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 256G	25	6.0 x 25.0	0.188	13.2	8.6	5.4	180	12-13	1 x 36 x 4	180
SSA 256J	25	6.0 x 25.0	0.250	19.7	13.8	9.5	250	12-13	1 x 36 x 4	224
SSA 306G	30	6.0 x 30.0	0.188	7.0	3.4	0.8	130	12-13	1 x 36 x 4	210
SSA 306J	30	6.0 x 30.0	0.250	12.2	7.5	4.1	170	12-13	1 x 36 x 4	258
SSA 326J	32	6.0 x 32.0	0.250	9.7	5.4	2.3	160	12-13	1 x 36 x 4	272
SSA 356J	35	6.0 x 35.0	0.250	6.4	2.6	—	200	12-13	1 x 36 x 4	294

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
4"C	8 1/2-9 5/8"	3 1/8"	9 15/16"	ABSSA-4C	AB18-0	PJ50045
4"G	8 1/2-9 5/8"	3 1/8"	9 15/16"	ABSSA-4G	AB30-0	PJ50045
5"	10 1/2-11 1/2"	3 1/4"	11 9/16"	ABSSA-5	AB30-0	PJ50046
6"	12"-13"	4"	12 1/4"	ABSSA-6	AB36-0	PJ50044

NOTES:

- 1 Mounting arrangement: (PT) Open top; (T20) 2 $\frac{3}{8}$ " OD (2" NPS)
- 2 Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 511.

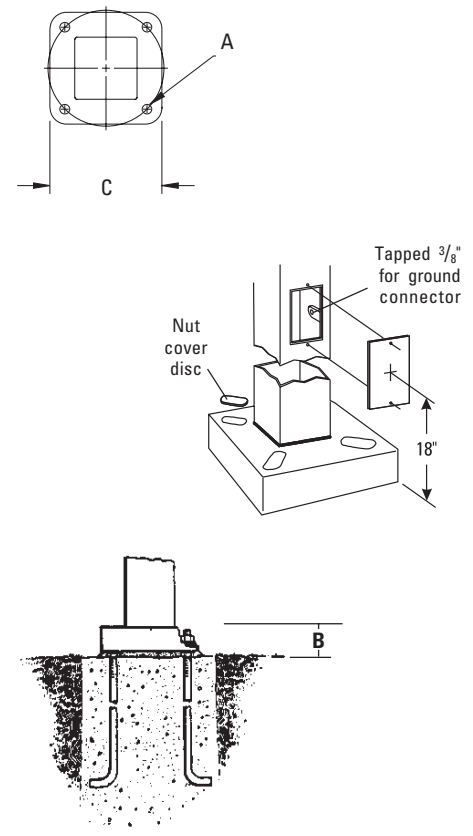
Ordering Information: See page 494 (Note: Poles are available only in U.S.)

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.



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

Square Straight Aluminum, Hinged

the hinged base is held in a vertical position by three ½"–13 x 2½" 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 ¾" 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 – Weatherproof, cast-aluminum cap is provided, for drill-mount poles.

Finish – Brushed aluminum is standard; optional polyester powder paint and anodized finishes available.

Ordering Information: See page 494 (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:

- 1 Mounting arrangement: (PT) Open top; (T20) 2 3/8" OD (2" NPS)
- 2 Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 511.

Technical Information

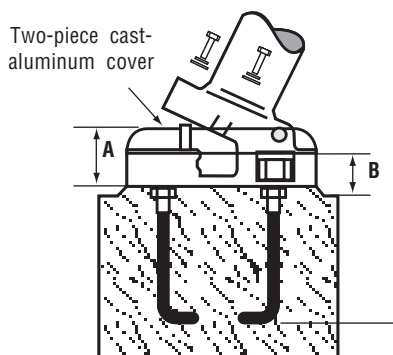
EPA (ft²) with 1.3 gust

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

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
4"C	8 1/2"-10"	3 1/2"	11 11/16"	ABSSAH-4C	AB18-0	PJ50055
4"G	8 1/2"-10"	3 1/2"	11 11/16"	ABSSAH-4G	AB30-0	PJ50055
5"	9 5/16"-10"	3 1/2"	11 11/16"	ABSSAH-5	AB30-0	PJ50056

Hinge direction
"A" Side of Pole



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). $\frac{3}{4}$ " 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 $\frac{1}{2}$ "-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 – Plastic cap is provided for drill-mount poles.

Finish – Dark bronze polyester powder paint (DDB) standard; optional polyester powder paint finishes available.

Base Cover – Full-base cover finished to match pole.

TECHNICAL INFORMATION

EPA (ft²) with 1.3 gust

Catalog Number	Nom. mount. ht. (ft.)	Pole Shaft Size (in. x in. x ft.)	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.)	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

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
3	8"	3 1/4" x 3 1/2"	8"	ABRSS-4	AB18-0	PJ50041
4"	8"	3 1/4" x 3 1/2"	8"	ABRSS-4	AB18-0	PJ50041
4 1/2"	8"	3 1/4" x 3 1/2"	8"	ABRSS-4	AB18-0	PJ50041
5"	8"	3 1/4" x 3 1/2"	8"	ABRSS-4	AB18-0	PJ50041

Ordering Information: See page 494
(Note: Poles are available only in U.S.)

INSTALLATION NOTES:

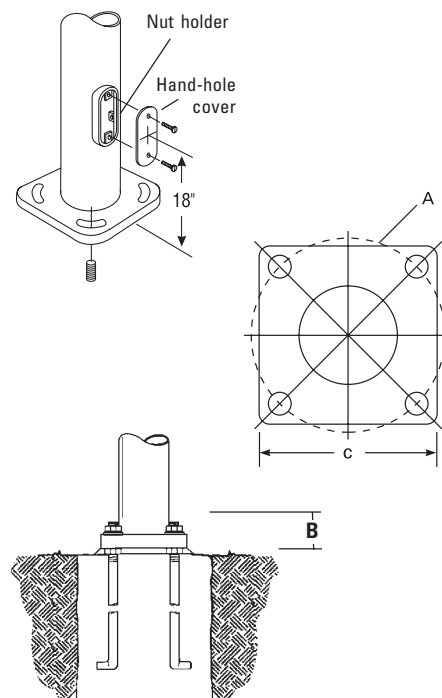
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

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:

- 1 Mounting arrangement: (PT) Open top accepts KKR; (T20) 2 3/8" OD (2" NPS)
- 2 Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 511.



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.

Round Tapered Steel

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 ½" – 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 – Weatherproof removable 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 494

(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.

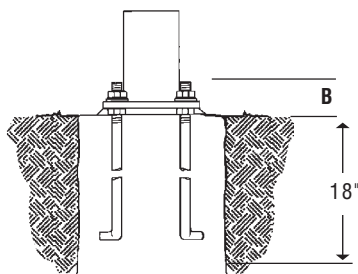
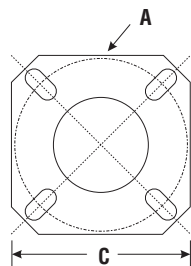
NOTES:

- 1 Mounting Arrangement: (PT) Open Top; (T20) 2 3/8" OD (2" NPS)
- 2 Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 512.

Technical Information

EPA (ft²) 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.)
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



Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
5.9" B	9"	3 1/2" - 4 1/4"	10"	ABRTS-5-9B	AB36-0	PJ50075
6.5" B	9.5"	3 1/2" - 4 1/4"	10 1/2"	ABRTS-6-5B	AB36-0	PJ50074
7.0" B	10"	3 1/2" - 4 1/4"	10 7/8"	ABRTS-7-0B	AB36-0	PJ50077
7.0" F	10"	3 3/4" - 4 1/2"	10 7/8"	ABRTS-7-0F	AB36-0	PJ50076
6.6" B	9.5"	3 1/2" - 4 1/4"	10 1/2"	ABRTS-6-6B	AB36-0	PJ50078
8.0" B	11"	3 1/2" - 4 1/4"	11 1/2"	ABRTS-8-0B	AB36-0	PJ50079
8.0" F	11"	4 1/2" - 5 1/4"	11 1/2"	ABRTS-8-0F	N/A	PJ50080
7.3" B	10.5"	3 1/2" - 4 1/4"	11 1/4"	ABRTS-7-3B	AB36-0	PJ50081
8.5" B	11.5"	3 3/4" - 4 1/2"	12"	ABRTS-8-5B	AB36-0	PJ50082
9.5" B	13"	3 3/4" - 4 1/2"	13"	ABRTS-9-5B	AB36-0	PJ50083
7.8" B	11"	3 3/4" - 4 1/2"	11 1/2"	ABRTS-7-8B	AB36-0	PJ50084
9.0" B	12.5"	3 3/4" - 4 1/2"	12 3/8"	ABRTS-9-0B	AB36-0	PJ50085
9.0" F	12.5"	4 1/2" - 5 1/4"	12 3/8"	ABRTS-9-0F	N/A	PJ50086
10.0" B	13.5"	3 3/4" - 4 1/2"	14"	ABRTS-10-B	AB36-0	PJ50087
10.0" F	13.5"	4 1/2" - 5 1/4"	14"	ABRTS-10-F	N/A	PJ50088

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-A153. Made of ¾" 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 ½" – 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 – Weatherproof, high-strength plastic cap is provided for drill-mount poles.

Finish – Dark bronze polyester powder paint (DDB) standard; optional polyester powder paint finishes available.

Base Cover – Full-base cover finished to match pole.

Technical Information

EPA (ft²) 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.)
SSS 10 4C	10	4.0 x 10.0	0.125	11	30.6	765	23.8	595	18.9	473	8-9	3/4 x 18 x 3	75
SSS 12 4C	12	4.0 x 12.0	0.125	11	24.4	610	18.8	470	14.8	370	8-9	3/4 x 18 x 3	90
SSS 14 4C	14	4.0 x 14.0	0.125	11	19.9	498	15.1	378	11.7	293	8-9	3/4 x 18 x 3	100
SSS 16 4C	16	4.0 x 16.0	0.125	11	15.9	398	11.8	295	8.9	223	8-9	3/4 x 18 x 3	115
SSS 18 4C	18	4.0 x 18.0	0.125	11	12.6	315	9.2	230	6.7	168	8-9	3/4 x 18 x 3	125
SSS 20 4C	20	4.0 x 20.0	0.125	11	9.6	240	6.7	167	4.5	150	8-9	3/4 x 18 x 3	140
SSS 20 4G	20	4.0 x 20.0	0.188	7	16.5	415	12.25	310	9.3	240	8-9	3/4 x 30 x 3	198
SSS 20 5C	20	5.0 x 20.0	0.125	11	17.7	443	12.7	343	9.4	235	10-12	1 x 36 x 4	185
SSS 20 5G	20	5.0 x 20.0	0.188	7	28.1	703	21.4	535	16.2	405	10-12	1 x 36 x 4	265
SSS 25 4C	25	4.0 x 25.0	0.125	11	4.8	150	2.6	100	1.0	50	8-9	3/4 x 18 x 3	170
SSS 25 4G	25	4.0 x 25.0	0.188	7	10.8	270	7.7	188	5.4	135	8-9	3/4 x 30 x 3	245
SSS 25 5C	25	5.0 x 25.0	0.125	11	9.8	245	6.3	157	3.7	150	10-12	1 x 36 x 4	225
SSS 25 5G	25	5.0 x 25.0	0.188	7	18.0	350	12.6	350	9.0	250	10-12	1 x 36 x 4	320
SSS 30 4G	30	4.0 x 30.0	0.188	7	6.4	160	4.0	100	2.3	58	8-9	3/4 x 30 x 3	295
SSS 30 5C	30	5.0 x 30.0	0.125	11	4.7	150	2.0	50	—	—	10-12	1 x 36 x 4	265
SSS 30 5G	30	5.0 x 30.0	0.188	7	10.7	267	6.7	167	3.9	100	10-12	1 x 36 x 4	380
SSS 30 6G	30	6.0 x 30.0	0.188	7	15.7	392	10.2	257	6.4	160	11-13	1 x 36 x 4	520
SSS 35 5G	35	5.0 x 35.0	0.188	7	5.9	150	2.5	100	—	—	10-12	1 x 36 x 4	440
SSS 35 6G	35	6.0 x 35.0	0.188	7	9.5	237	5.0	150	1.8	50	11-13	1 x 36 x 4	540
SSS 39 6G	39	6.0 x 39.0	0.188	7	5.1	128	1.3	33	—	—	11-13	1 x 36 x 4	605

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square	Anchor bolt description	Warehouse 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:

- 1 Mounting Arrangement: (PT) Open Top; (T20) 2 3/8" OD (2" NPS)
- 2 Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 512.

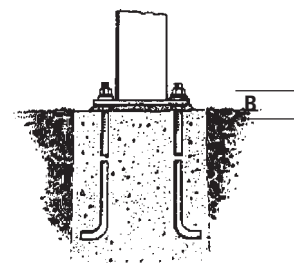
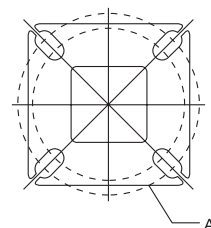
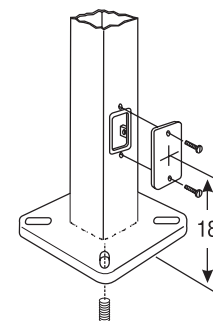
Ordering Information: See page 494 (Note: Poles are available only in U.S.)

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.



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.

Square Tapered Steel

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 ½" – 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 included. Hand hole is located 18" above base.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof, removable 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 494

(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:

- 1 Mounting Arrangement: (PT) Open Top; (T20) 2½" OD (2" NPS)
- 2 Drill Mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 512.

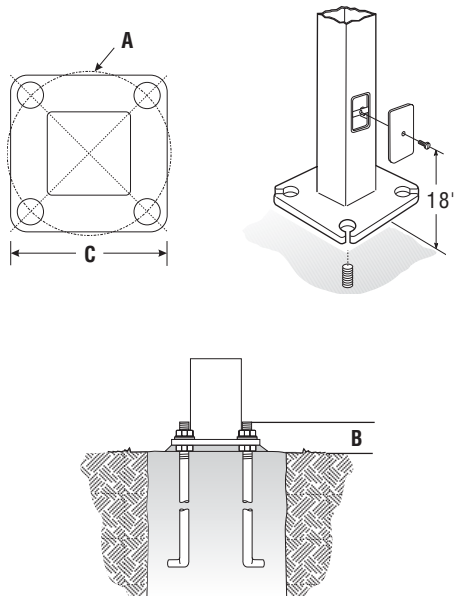
Technical Information

EPA (ft²) 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.)
STS 20 5-2B	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
STS 20 5-5F	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
STS 25 6-0B	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
STS 25 6-4F	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
STS 30 6-4B	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
STS 30 6-4F	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
STS 35 6-8B	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
STS 35 7-1F	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
STS 39 7-1B	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
STS 39 7-1F	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
STS 45 7-8F	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
STS 45 8-7F	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
STS 50 8-8F	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	Warehouse anchor bolt description	Template number
5.2" B	10¾"	3½"-4¼"	10¾"	ABSTS-5-2B	AB36-0	PJ50095
5.5" F	11"	3¾"-4½"	11"	ABSTS-5-5F	AB36-0	PJ50096
6.0" B	12"	3½"-4¼"	11½"	ABSTS-6-0B	AB36-0	PJ50097
6.4" F	12½"	4"-4¾"	11⅞"	ABSTS-6-4F	AB36-0	PJ50098
6.4" B	12½"	3½"-4¼"	11⅞"	ABSTS-6-4B	AB36-0	PJ50099
6.8" B	13"	3½"-4¼"	12¼"	ABSTS-6-8B	AB36-0	PJ50101
7.1" F	13½"	4¼"-5"	12⅝"	ABSTS-7-1F	AB36-0	PJ50102
7.1" B	13½"	3½"-4¼"	12⅝"	ABSTS-7-1B	AB36-0	PJ50103
7.8" F	14½"	4"-4¾"	13⅜"	ABSTS-7-8F	AB36-0	PJ50105
8.7" F	15¾"	4¾"-5½"	14¼"	ABSTS-8-7F	N/A	PJ50106
8.8" F	16"	4½"-5¼"	15½"	ABSTS-8-8F	N/A	PJ50107



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" – 13 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 – Weatherproof, removable 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 is provided.

Technical Information

EPA (ft²) with 1.3 gust

Catalog Number (pounds)	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.
STSH 20 4F	20	4 x 4 x 20	0.188	7	11.6	217	8.5	217	6.2	217	8-1/2-10	3/4 x 18 x 3	300
STSH 25 4B	25	4 x 4 x 25	0.125	11	7.1	160	4.8	160	3.1	160	8-1/2-10	3/4 x 18 x 3	370
STSH 25 6-4B	25	6.41 x 3.63 x 25	0.125	11	18.0	254	13.0	254	9.3	254	12-1/2	1 x 36 x 4	355
STSH 30 4F	30	4 x 4 x 30	0.188	7	4.0	120	2.1	120	0.8	120	8-1/2-10	3/4 x 18 x 3	435
STSH 30 6-4B	30	6.41 x 3.08 x 30	0.125	11	12.5	230	8.3	230	5.1	230	12-1/2	1 x 36 x 4	440
STSH 35 7-1B	35	7.18 x 2.88 x 35	0.125	11	7.1	160	3.2	160	—	—	13-1/2	1 x 36 x 4	540
STSH 35 7-1F	35	7.13 x 2.87 x 35	0.188	7	22.0	155	16.9	155	12.1	155	13-1/2	1 x 36 x 4	700
STSH 39 7-1F	39	7.13 x 2.87 x 39	0.188	7	19.5	110	13.5	110	9.2	110	13-1/2	1 x 36 x 4	740

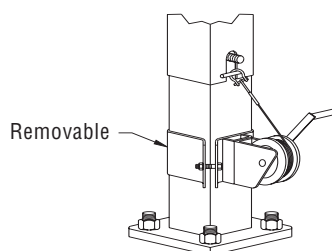
Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Warehouse anchor bolt description	Template number
4.0" F	8 1/2"-10"	3 1/2"-4 1/4"	9 3/4"	ABSTSH4F	AB18-0	PJ50091
6.4" B	12 1/2"	3 3/4"-4 1/2"	11 7/8"	ABSTSH6-4B	AB36-0	PJ50092
7.1" F	13 1/2"	4"-4 3/4"	12 5/8"	ABSTSH7-1F	AB36-0	PJ50093
7.1" B	13 1/2"	3 1/2"-4 1/4"	12 5/8"	ABSTSH7-1B	AB36-0	PJ50094

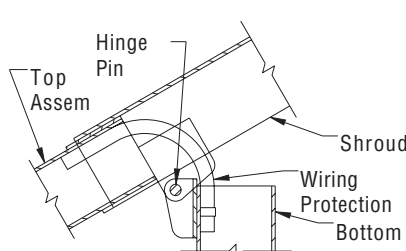
Winch Ordering

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 494 (Note: Poles are available only in U.S.)

INSTALLATION NOTES:

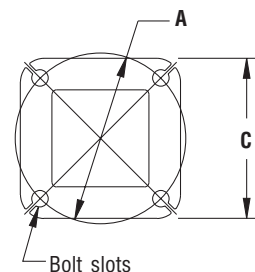
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

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:

- 1 Mounting arrangement: (PT) Open top; (T20) 2 3/8" OD (2" NPS).
- 2 Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°.
- 3 Options: See page 509.
- 4 Brackets: See page 512.



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 1½ 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.

Round Tapered Steel

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 ½" – 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 – Weatherproof removable top cap provided with all drill-mount poles.

Ordering Information: See page 494

(Note: Poles are available only in U.S.)

INSTALLATION NOTES:

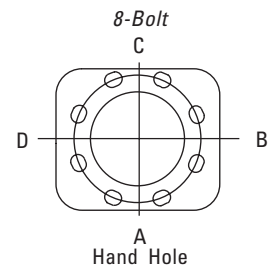
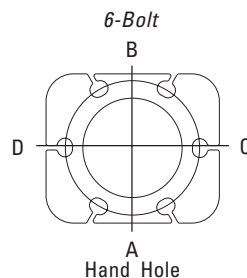
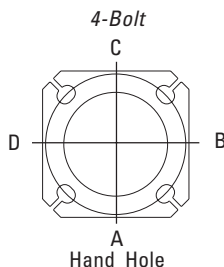
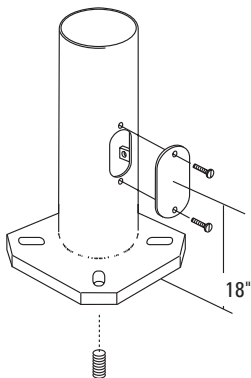
Installation requires grout to be packed under base to ensure full contact with foundation. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.

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

		Top Section		Bottom Section		EPA (ft²) with 1.3 gust									
Catalog number	Nom. mount. ht (ft.)	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.)	Num. of anchor bolts	
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	

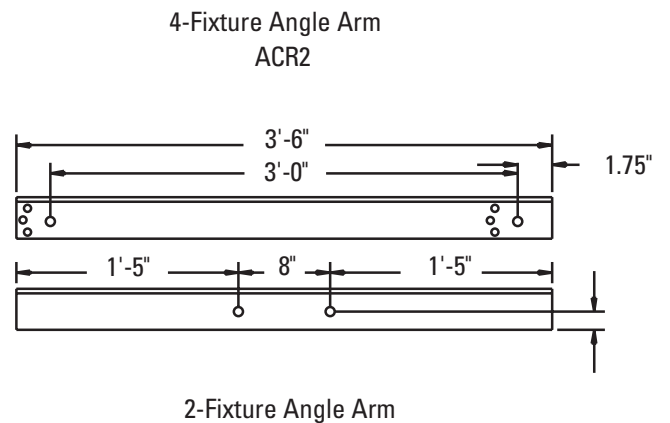
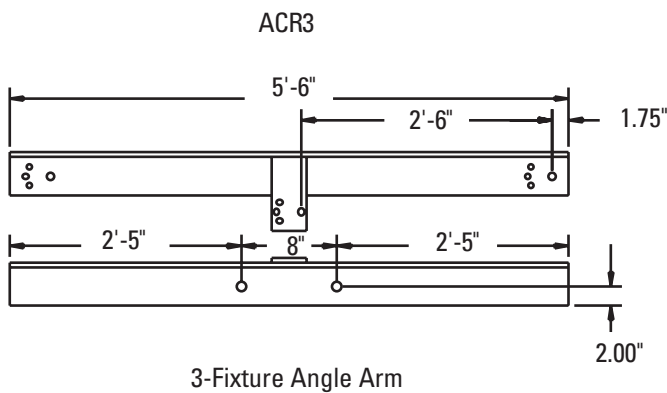
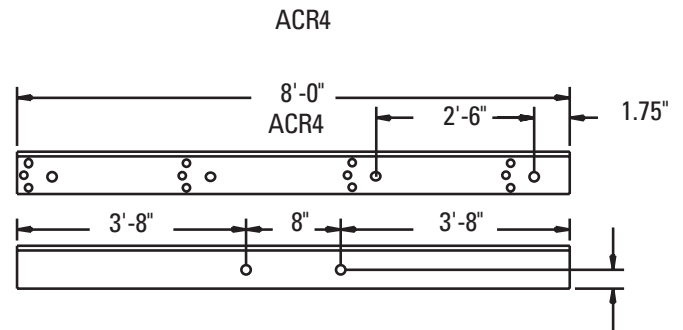
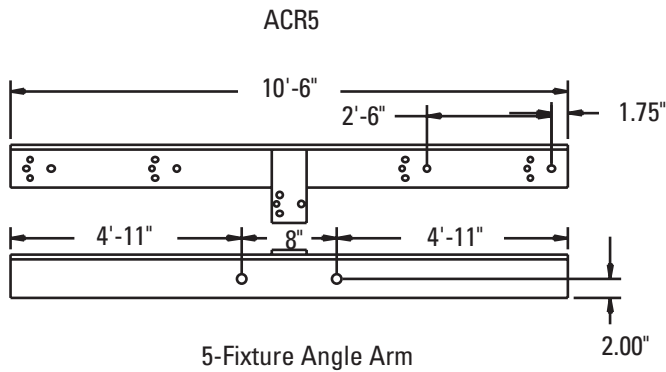
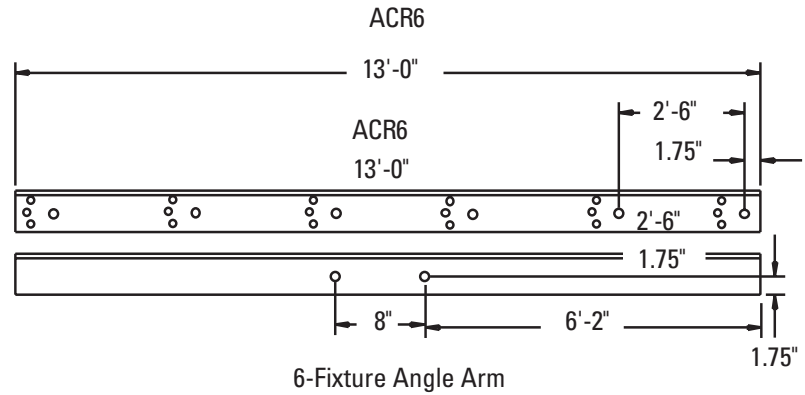


Angle Iron Crossarms for Steel Poles

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).

Angle Iron Crossarms for Steel Poles

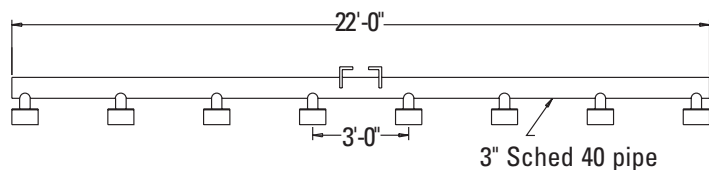
Catalog number	Arm EPA (sq. ft.)	Weight (lbs.)
ACR2	1.98	34.0
ACR3	3.12	54.0
ACR4	4.53	78.0
ACR5	5.95	103.0
ACR6	7.37	127.0



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

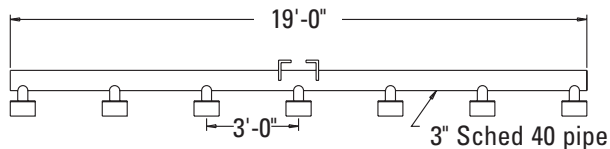


8-Fixture Crossarm

Tubular Crossarms for Steel Poles

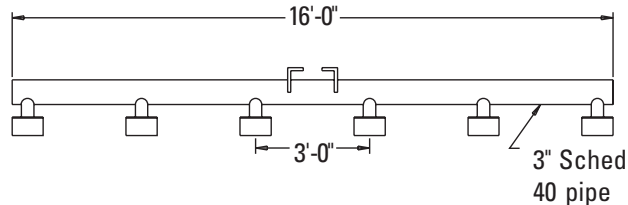
Catalog number	EPA (sq. ft.)	Weight (lbs.)
CR2	1.28	44.0
CR3	2.45	65.0
CR4	3.21	98.0
CR5	4.17	116.0
CR6	5.13	150.0
CR7	6.10	176.0
CR8	7.06	271.0

CR7



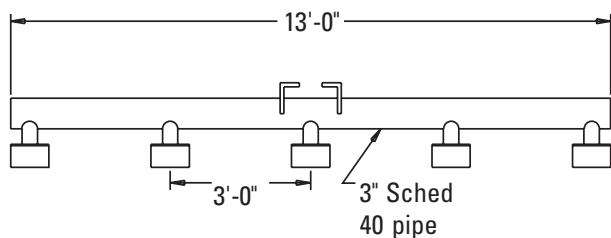
7-Fixture Crossarm

CR6



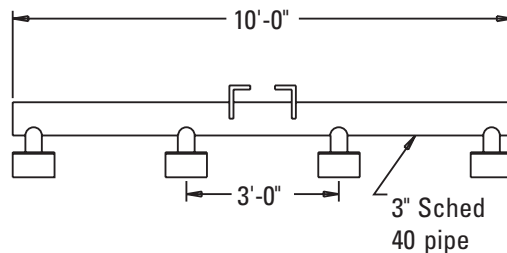
6-Fixture Crossarm

CR5



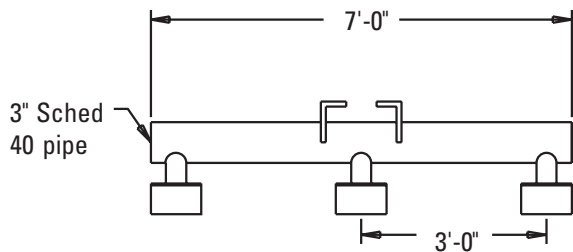
5-Fixture Crossarm

CR4



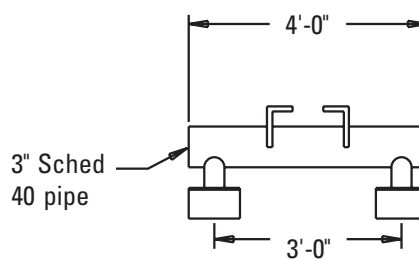
4-Fixture Crossarm

CR3



3-Fixture Crossarm

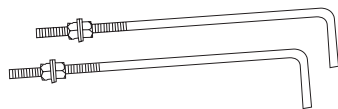
CR2



2-Fixture Crossarm

Anchor Bolts

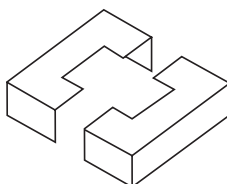
Available in various sizes for use with Lithonia poles. Set includes hex nuts and washers. Anchor bolt is partially galvanized for exposed threads per ASTM-A153. Bolts have minimum-yield strength rating of 55,000 psi, AASHTO M314 GR55. See individual pole catalog pages for anchor bolt sizes and description.



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)
SBC4	SSS 4"	8.75"	x 5.8"
SBC5	SSS 5"	11.44"	x 6.4"
SBC6	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 25 7E. Also specify if pole is existing.

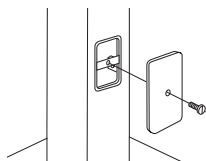
Festoon Outlets

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
FDL	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)				
		Number of fixtures				
Tenon OD	One	Two@180°	Two@90°	Three@120°	Three@90°	Four@90°
2 3/8"	T20-190	T20-280	T20-290	T20-320	T20-390	T20-490
2 7/8"	T25-190	T25-280	T25-290	T25-320	T25-390	T25-490
4"	T35-190	T35-280	T35-290	T35-320	T35-390	T35-490

Couplings & Nipples

Threaded couplings and/or nipples can be factory installed. When ordering, specify location in height and feet above base of pole and orientation from the hand hole.

12CP	1/2"	threaded coupling	12NP	1/2"	threaded nipple
34CP	3/4"	threaded coupling	34NP	3/4"	threaded nipple
1CP	1"	threaded coupling	1NP	1"	threaded nipple



Threaded Coupling

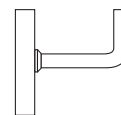


Threaded Nipple

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	EPA Material	Weight	
		(sq. ft.)	(lbs.)
HA	Aluminum	.43	7
	Steel	.50	11
	Fiberglass	.45	8
	Concrete	.55	9

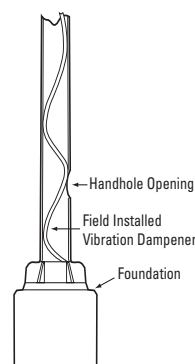


Note: SSS and SSA arm attachment is slightly different from RTA. Arm modifications located on pole to accept arms. Arms shipped as separate item.

VD - Vibration Damper

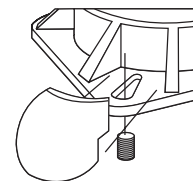
It has been found that low steady winds sometimes induce second mode vibration in lighting poles. Second mode vibration is characterized by the maximum periodic motion occurring at approximately the mid-height of the pole. This type of vibration can result in failure of the pole and/or luminaire. There is no method of predicting destructive light pole vibration.

Note: FVD - Field installable vibrator damper available upon request. Consult factory.



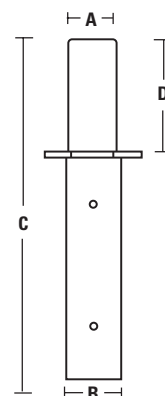
Nut Covers

Four nut covers are standard for RSA and RTA poles only.



Bolt on Tenon Square Steel Poles

Cat. No.	A	B	C	D	Wt. (lbs.)
SBT-4S	2 3/8"	3"	13 3/4"	5"	7
SBT-5S	2 3/8"	4"	13 3/4"	5"	8
SBT-6S	2 3/8"	5"	13 3/4"	5"	17



Tamperproof

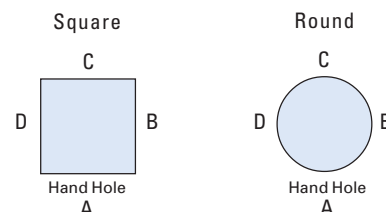
Tamperproof (TP): Order as TP. Tamperproof screws provided with base cover.

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

Options	Height from base (ft.)	Orientation
HA Horizontal arm	Determined by application.	A side of the pole with the hand hole B side of the pole 90 degrees counterclockwise from the hand hole (right) C side of the pole 180 degrees counterclockwise from the hand hole (opposite) D side of the pole 270 degrees counterclockwise (or 90 degrees clockwise) from the hand hole (left)
FDL Festoon outlet- less electrical		
12CP 1/2" coupling		
34CP 3/4" coupling		
1CP 1" coupling		
12NP 1/2" threaded nipple		
34NP 3/4" threaded nipple		
1NP 1" threaded nipple		
HH Extra hand hole, 3 x 5 only		
PT Open top		
T20 2 3/8" tenon		
T25 2 7/8" tenon		
T30 3 1/2" tenon		
T35 4" tenon		

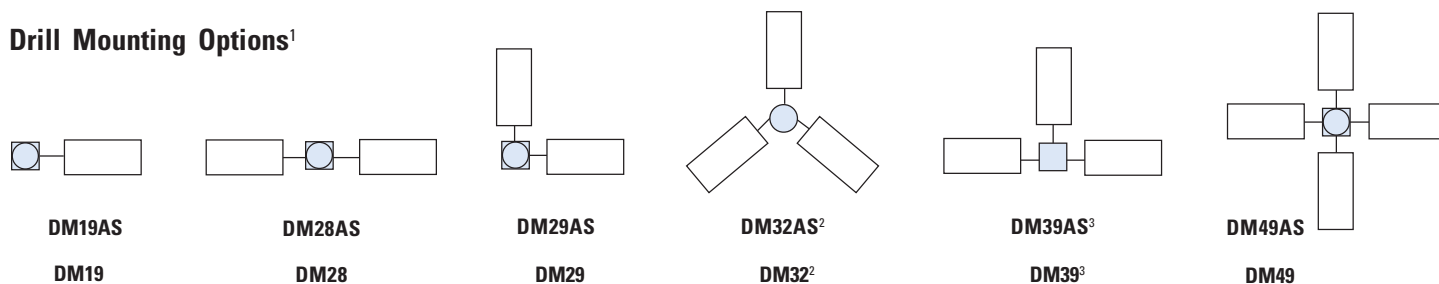
Example: **HA12B**



See the following examples:

- 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**
- 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**
- 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 Options¹



NOTES:

- AS denotes Aeries luminaire.
- Available with round pole only.
- Available with square pole only.

Bullhorns and Spokes — order as separate items.

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).

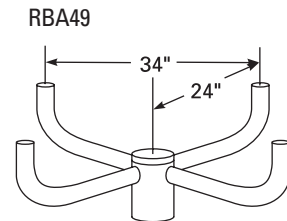
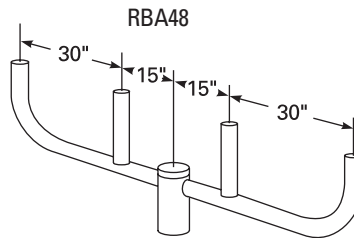
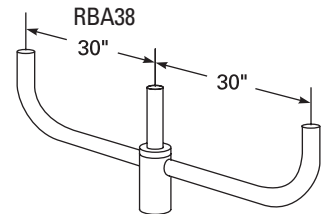
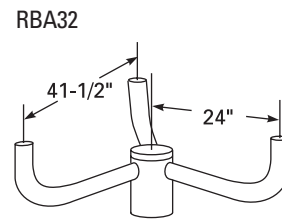
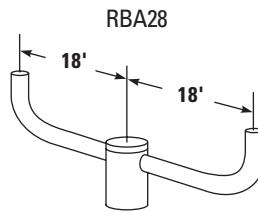
Brackets for Aluminum Poles Only

Finish — Natural aluminum. Optional painted finishes available. Plastic cap supplied.

Round Pole

Brackets mount to T25 tenon 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



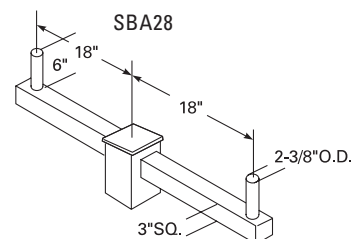
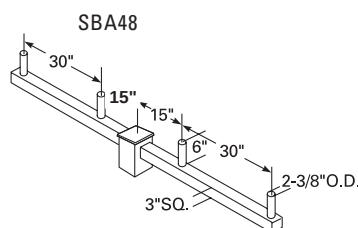
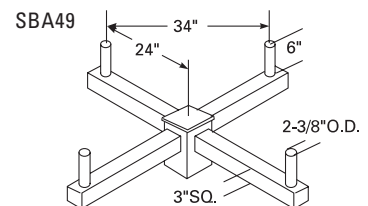
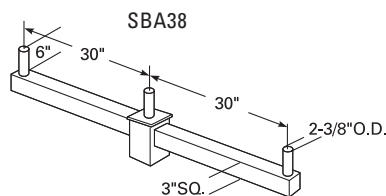
Brackets for Aluminum Poles Only

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



Steel Mounting Brackets

Bullhorns and Spokes — Order as separate items.

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

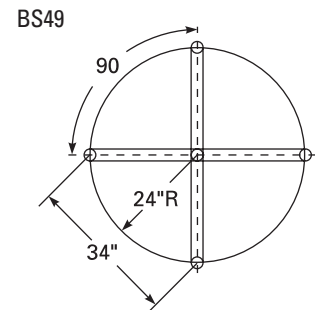
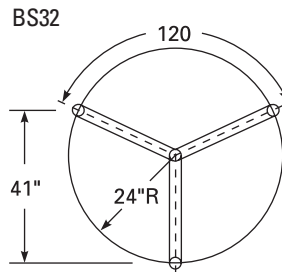
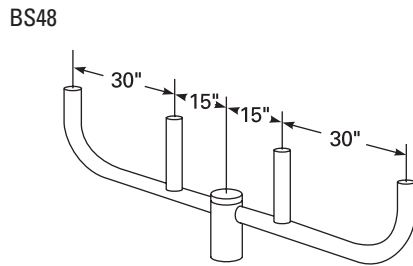
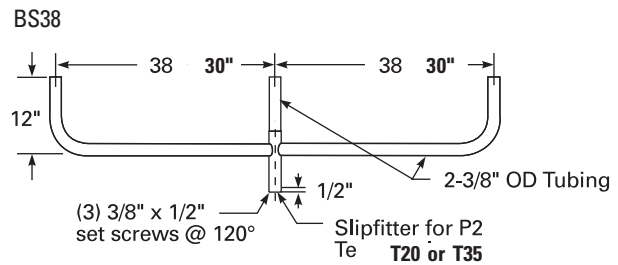
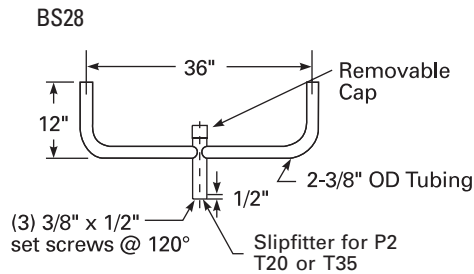
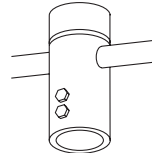
rating per tenon of 4.5 sq. ft. projected area and 100 lbs. at a wind velocity of 100 mph (luminaire drag coefficient = 1.0).

Brackets for Steel Poles Only

Finish — Dark bronze, standard. Other colors available (consult factory). Plastic cap supplied.

Catalog Number	EPA (sq. ft.)	Weight (lbs.)
BS28	1.0	21.0
BS32	1.3	34.0
BS38	1.6	32.0
BS48	2.3	44.0
BS49	1.6	44.0

Standard Hub
OD 2 $\frac{7}{8}$ " – I.D. 2 $\frac{1}{2}$ "
Requires T20 Tenon (min. 5" tall)

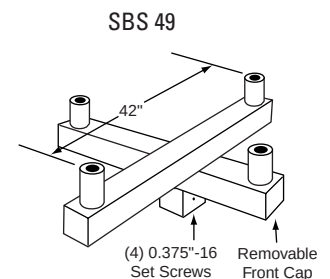
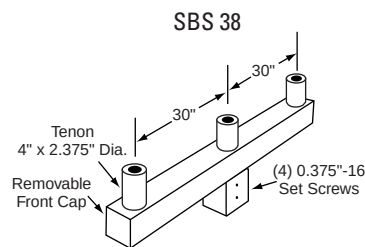
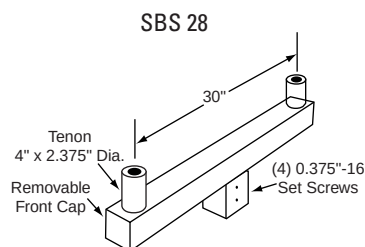


Brackets for Square Steel Poles Only

Requires T20 (2 $\frac{3}{8}$ " max OD) tenon on pole for mounting.

Finish — Dark bronze, standard.

Catalog Number	EPA (sq. ft.)	Weight (lbs.)
SBS 28	1.1	30.0
SBS 38	1.7	42.0
SBS 49	2.1	45.0



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 $\frac{5}{8}$ " or 1" diameter steel rod having a minimum-yield strength of 55,000 psi.

Hand hole – An oval, non-metallic, 2½"x5" hand hole secured with a vandal-resistant, stainless steel ½" socket head screw.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof, high-strength plastic cap provided with all drill-mount poles.

Finish – The pole is ultraviolet-resistant and pigmented approximately the same color as the final polyurethane coating. Dark bronze (DDB) is standard.

Technical Information

EPA (ft²) 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.)
RTF 10 5-4X	10	5.4 x 4.1 x 10	19.0	14.6	11.4	150	8	$\frac{5}{8}$ x 21 x 3	23
RTF 12 5-6X	12	5.6 x 4.1 x 12	16.0	12.1	9.3	150	8½	$\frac{5}{8}$ x 21 x 3	28
RTF 14 5-9X	14	5.9 x 4.1 x 14	14.0	10.4	7.9	150	8½	$\frac{5}{8}$ x 21 x 3	32
RTF 16 6-1X	16	6.1 x 4.1 x 16	10.0	7.4	5.5	100	8½	$\frac{5}{8}$ x 21 x 3	36
RTF 20 6-6X	20	6.6 x 4.1 x 20	8.2	5.8	4.1	100	9½	$\frac{5}{8}$ x 21 x 3	45
RTF 20 7-3X	20	7.3 x 4.6 x 20	14.4	11.1	8.9	200	11½	1 x 30 x 4	62
RTF 25 6-7X	25	6.7 x 4.1 x 25	5.4	3.4	2.0	100	9½	1 x 30 x 4	55
RTF 25 7-3X	25	7.3 x 4.6 x 25	9.6	7.3	5.7	200	11½	1 x 30 x 4	75
RTF 30 8-4X	30	8.4 x 4.6 x 30	11.2	8.5	6.7	100	11½	1 x 30 x 4	106
RTF 30 8-5X	30	8.5 x 4.8 x 30	15.6	12.0	9.5	200	11½	1 x 30 x 4	140
RTF 30 10-5X	30	10.5 x 6.6 x 30	28.7	22.4	17.4	300	14½	1 x 30 x 4	202
RTF 35 8-4X	35	8.4 x 4.6 x 35	5.5	3.8	2.7	100	11½	1 x 30 x 4	125
RTF 35 8-5X	35	8.5 x 4.8 x 35	8.5	6.2	4.7	200	11½	1 x 30 x 4	161
RTF 35 11-2X	35	11.2 x 6.6 x 35	21.8	16.6	12.5	300	15	1¼ x 36 x 6	248
RTF 40 11-7X	40	11.7 x 6.2 x 40	6.4	4.3	2.4	165	15½	1¼ x 36 x 6	165
RTF 40 11-8X	40	11.8 x 6.4 x 40	12.2	8.8	6.0	300	15½	1¼ x 36 x 6	227
RTF 40 12X	40	12.0 x 6.9 x 40	25.8	19.3	14.3	300	15½	1¼ x 36 x 6	317
RTF 45 11-7X	45	11.7 x 6.2 x 45	3.9	2.0	0.6	300	15½	1¼ x 36 x 6	183
RTF 45 11-9X	45	11.9 x 6.6 x 45	15.2	10.9	7.6	300	15½	1¼ x 36 x 6	295

Pole Data

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Anchor bolt description	Template number
5.4"	8"	3"	7.75"	ABRTF-5-4	PJ50108
5.6"	8.5"	3"	8.125"	ABRTF-5-6	PJ50109
5.9"	8.5"	3"	8.125"	ABRTF-5-9	PJ50110
6.1"	8.5"	3"	8.125"	ABRTF-6-1	PJ50111
6.6"	9.5"	3"	8.8"	ABRTF-6-6	PJ50112
6.7"	9.5"	3"	8.8"	ABRTF-6-7	PJ50113
7.3"	11.5"	4"	11"	ABRTF-7-3	PJ50114
8.4"	11.5"	4"	11"	ABRTF-8-4	PJ50115
8.5"	11.5"	4"	11"	ABRTF-8-5	PJ50116
10.5"	14.5"	4"	13.3"	ABRTF-10-5	PJ50117
11.2"	15"	4"	13.5"	ABRTF-11-2	PJ50118
11.7"	15.5"	4"	14"	ABRTF-11-7	PJ50119
11.8"	15.5"	4"	14"	ABRTF-11-8	PJ50120
11.9"	15.5"	4"	14"	ABRTF-11-9	PJ50121
12.0"	15.5"	4"	14"	ABRTF-12-0	PJ50122

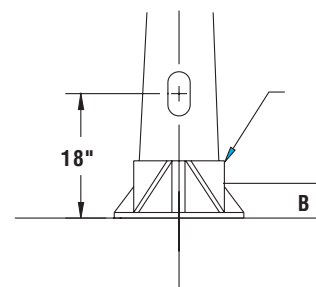
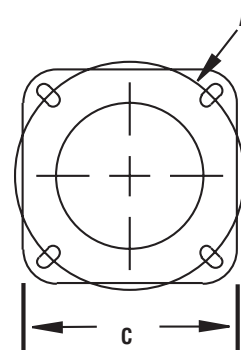
Ordering Information: See page 494 (Note: Poles are available only in U.S.)

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.



RTFDB

Round Tapered Fiberglass

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, 2½"x5" hand hole secured with a vandal-resistant, stainless steel ¼" socket head screw.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof, high-strength plastic cap provided with all drill-mount poles.

Finish – Ultraviolet-resistant and pigmented approximately the same color as the final polyurethane coating. Dark bronze (DDB) is standard.

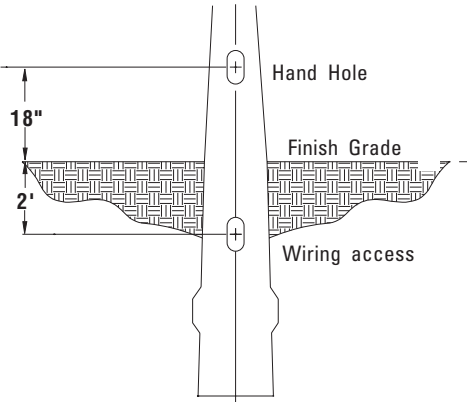
Ordering Information: See page 494
(Note: Poles are available only in U.S.)

Technical Information

EPA (ft²) 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.)
RTFDB 18 6X	14	6.0 x 4.1 x 18	14.0	10.4	7.9	150	34
RTFDB 20 6-6X	16	6.6 x 4.1 x 20	10.0	7.4	5.5	100	38
RTFDB 24 6-7X	20	6.7 x 4.1 x 24	8.2	5.8	4.1	150	46
RTFDB 30 8-3X	25	8.3 x 4.4 x 30	6.2	4.7	3.6	100	71
RTFDB 30 8-4X	25	8.4 x 4.6 x 30	14.5	11.2	8.9	200	98
RTFDB 35 8-4X	30	8.4 x 4.6 x 35	10.5	8.0	6.2	200	116
RTFDB 35 8-5X	30	8.5 x 4.9 x 35	14.8	11.4	9.0	300	153
RTFDB 41 11-8X	35	11.8 x 6.4 x 41	14.3	10.8	7.8	300	218

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.



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 $\frac{5}{8}$ " or 1" diameter steel rod having a minimum-yield strength of 55,000 psi.

Hand hole – An oval, non-metallic, $2\frac{1}{2}$ " x 5" hand hole secured with a vandal-resistant, stainless steel $\frac{1}{4}$ " socket head screw.

Hardware – Fasteners are high-strength galvanized zinc-plated or stainless steel.

Top Cap – Weatherproof, high-strength plastic cap provided with all drill-mount poles.

Finish – Ultraviolet-resistant and pigmented approximately the same color as the final polyurethane coating. Dark

bronze (DDB) is standard.

Base Cover – Full base cover finished to match pole.

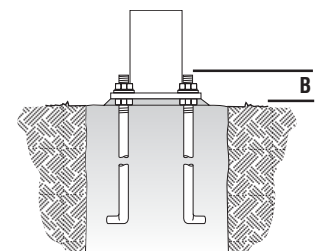
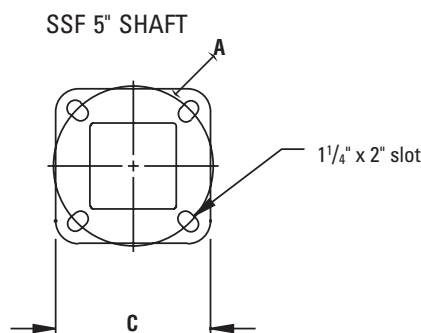
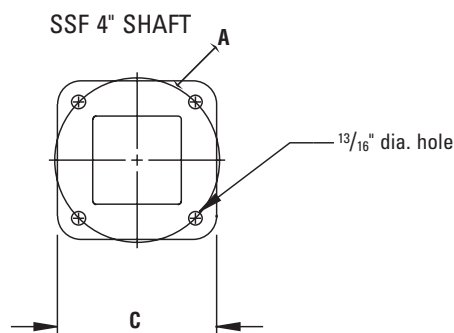
Technical Information

EPA (ft²) 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.)
SSF 6 4X	6	4 x 4 x 6	23.2	17.9	14.2	150	8	$\frac{5}{8}$ x 21 x 3	18
SSF 8 4X	8	4 x 4 x 8	16.5	12.6	9.8	150	8	$\frac{5}{8}$ x 21 x 3	23
SSF 10 4X	10	4 x 4 x 10	12.0	8.9	6.7	150	8	$\frac{5}{8}$ x 21 x 3	27
SSF 12 4X	12	4 x 4 x 12	9.1	6.5	4.6	100	8	$\frac{5}{8}$ x 21 x 3	31
SSF 14 4X	14	4 x 4 x 14	6.7	4.4	2.8	100	8	$\frac{5}{8}$ x 21 x 3	35
SSF 16 4X	16	4 x 4 x 16	3.7	2.2	1.1	100	8	$\frac{5}{8}$ x 21 x 3	39
SSF 20 4X	20	4 x 4 x 20	7.2	1.8	0.5	150	8	$\frac{5}{8}$ x 21 x 3	80
SSF 20 5X	20	5 x 5 x 20	12.2	9.1	6.9	200	11	1 x 30 x 4	110
SSF 25 4X	25	4 x 4 x 25	4.2	2.5	0.75	150	8	$\frac{5}{8}$ x 21 x 3	90
SSF 25 5X	25	5 x 5 x 25	8.7	6.2	4.4	200	11	1 x 30 x 4	115
SSF 30 5X	30	5 x 5 x 30	4.7	2.8	1.9	200	11	1 x 30 x 4	120
SSF305XHD	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



Ordering Information: See page 494 (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:

- 1 Mounting arrangement: (PT) Open Top; (T20) 2 $\frac{1}{8}$ " OD (2" NPS)
- 2 Drill mounting: (DM19) 1 fixture at 90°; (DM28) 2 fixtures at 180°
- 3 Options: See page 509.
- 4 Brackets: See page 511.

RTCD

NEW

Round Tapered Concrete

Features

Construction – Centrifugal, pre-stressed concrete with a minimum 28-day compressive strength of 7000 PSI and conform with ASTM C-150. Prestressing wire reinforcement shall conform to ASTM A-421 and the spiral wire shall conform to ASTM A-82. The spiral reinforcement shall not be less than 13 gauge. The reinforcement continues from the top of the pole over the entire length. The concrete coverage over

the reinforcement spiral is ½" thick. The raceway opening is 2 inches minimum for wiring. Nominal hand hole size of 2.225"x7". Ground wire runs from top of pole to hand hole.

Finish – Concrete shall be color throughout acrylic coating.

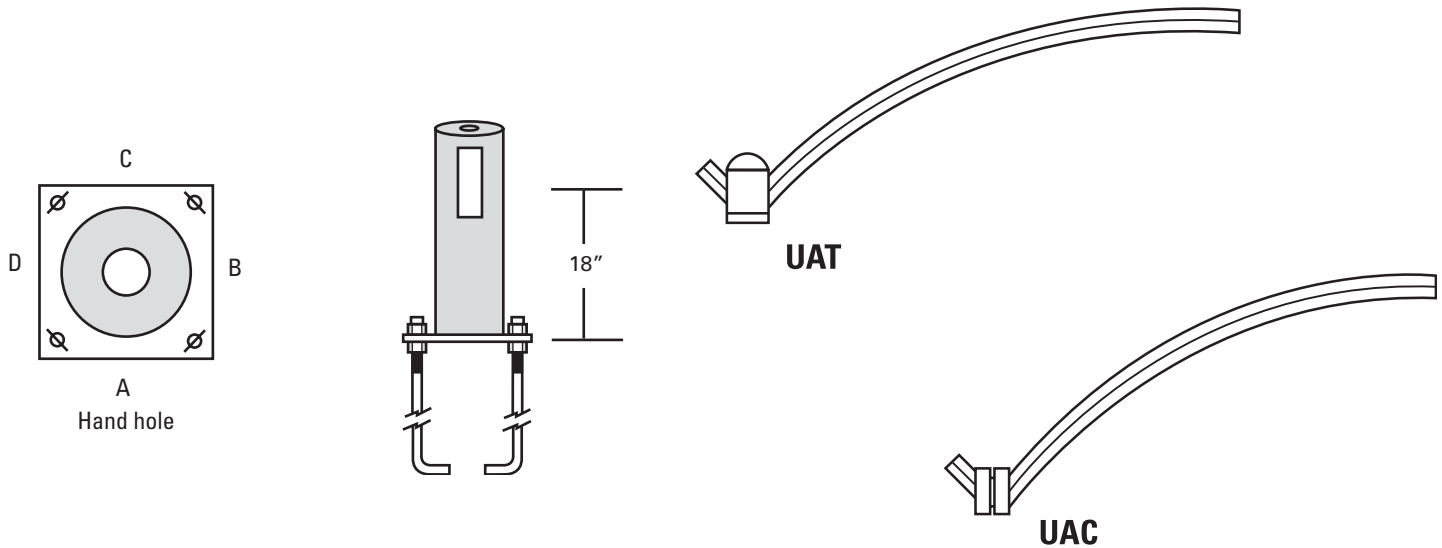
Anchor Bolts - Top portion of anchor bolt is galvanized per ASTM A-153. Made of steel rod having minimum yield strength of 55,000 PSI.

Ordering Information: See page 494
(Note: Poles are available only in U.S.)

Technical Information

Catalog number	Pole height "A"	Base OD	Anchor bolt	Bolt circle	Base plate (sq.)	Ultimate GL moment (ft. lbs.)	Weight (lbs.)	80	90	100
RTCD 20 8-25X	19'-8"	8 1/4"	1" x 36" x 4"	11 1/2"	11"	20,100	600	12.0	11.0	10.0
RTCD 25 8-06X	24'-7"	8 1/16"	1" x 36" x 4"	11 1/2"	11"	19,910	750	12.0	9.0	6.5
RTCD 30 8-62X	29'-6"	8 5/8"	1" x 36" x 4"	11 1/2"	11"	22,540	920	10.0	7.0	5.0
RTCD 35 9-31X	34'-9"	9 5/16"	1" x 36" x 4"	14"	13"	37,500	1,200	12.0	10.0	8.0
RTCD 43 11-31X	42'-8"	11 15/16"	1" x 36" x 4"	16 1/2"	16"	51,050	2,100	12.0	8.0	5.0

*EPA based on post top mounting. Consult your representative for other attachment methods and increased load capacity requirements.



Features

Construction – Centrifugal, pre-stressed concrete with a minimum 28-day compressive strength of 7000 PSI and conform with ASTM C-150. Prestressing wire reinforcement shall conform to ASTM A-421 and the spiral wire shall conform to ASTM A-82. The spiral reinforcement shall not be less than 13 gauge. The reinforcement continues from the top of the pole over the entire length. The concrete coverage over

the reinforcement spiral is ½" thick. The raceway opening is 2 inches minimum for wiring. Nominal hand hole size of 2.225"x7". Ground wire runs from top of pole to hand hole.

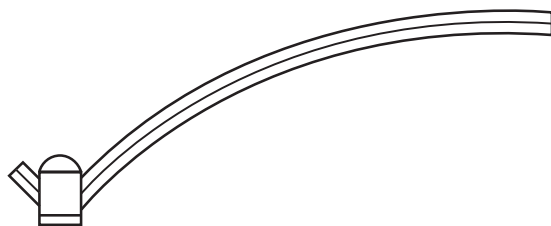
Finish – Concrete shall be color throughout acrylic coating.

Ordering Information: See page 494
(Note: Poles are available only in U.S.)

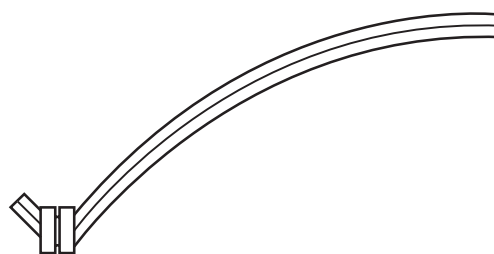
Technical Information

Catalog number	Pole height "A"	Base OD	Embedded depth	Overall length	Ultimate GL moment (ft. lbs.)	Weight (lbs.)	80	90	100
RTCDDDB 20 8-00X	19'-8"	8"	4' - 11'	24'-7"	17,440	750	13.0	11.0	10.0
RTCDDDB 25 8-56X	24'-7"	8 ⁹ / ₁₆ "	4' - 11'	29'-6"	19,910	850	12.0	9.0	6.5
RTCDDDB 30 9-25X	29'-6"	9 ¹ / ₄ "	5' - 3'	34'-9"	22,540	1,200	10.0	7.0	5.0
RTCDDDB 35 11-93X	36'-0"	11 ¹⁵ / ₁₆ "	6' - 8'	42'-8"	42,200	2,100	12.0	10.0	8.0
RTCDDDB 43 13-33X	42'-8"	13"	6' - 5'	49'-2"	49,300	2,850	12.0	8.0	5.0

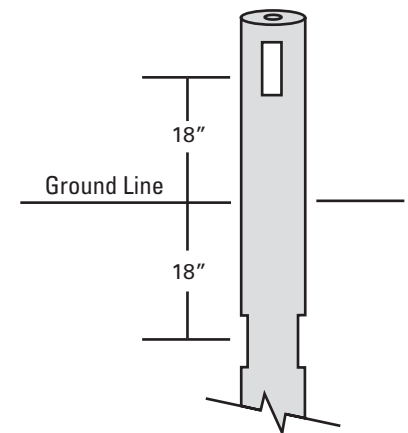
*EPA based on post top mounting. Consult your representative for other attachment methods and increased load capacity requirements.



UAT



UAC



STC

Features

Shaft – Concrete mix has a minimum 28-day compressive strength of 6,500 PSI and conforms with ASTM-C150. Pre-stressing 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.

Square Tapered Concrete

Hand hole – A 3"x5" hand hole is located 24" above ground line and a 2½" x 7" minimum conduit entrance 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.

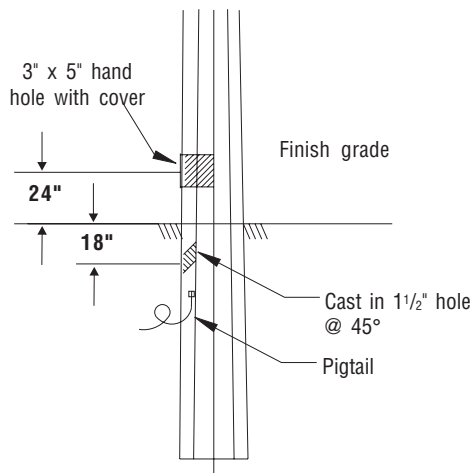
Ordering Information: See page 494
(Note: Poles are available only in U.S.)

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 (ft²) 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.)
STC 20 7-24X	16	4.0 x 7.24 x 20	22	550	16	430	13	330	680
STC 20 9-24X	16	6.0 x 9.24 x 20	48	1,220	37	950	29	760	1,110
STC 25 8-05X	20	4.0 x 8.05 x 25	21	510	16	390	12	300	985
STC 25 10-05X	20	6.0 x 10.05 x 25	44	1,050	34	810	26	640	1,530
STC 30 8-86X	25	4.0 x 8.86 x 30	20	460	15	340	11	250	1,350
STC 30 10-86X	25	6.0 x 10.86 x 30	49	1,090	33	830	28	650	2,000
STC 35 9-67X	29	4.0 x 9.67 x 35	17	400	12	290	8	200	1,800
STC 35 11-67X	29	6.0 x 11.67 x 35	43	1,010	32	760	24	580	2,540
STC 40 12-48X	34	6.0 x 12.48 x 40	42	920	30	670	22	500	3,130
STC 45 13-29X	38	6.0 x 13.29 x 45	41	820	31	590	22	420	3,795



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. 2½"x8" reinforced hand hole with flush cover is located at cage/crossarm locations. 1½" 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 terminates at top of pole to accept a ½"x24" lightning rod and approximately 12" below grade. Copper coupling provides a ½" 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.

Technical Information

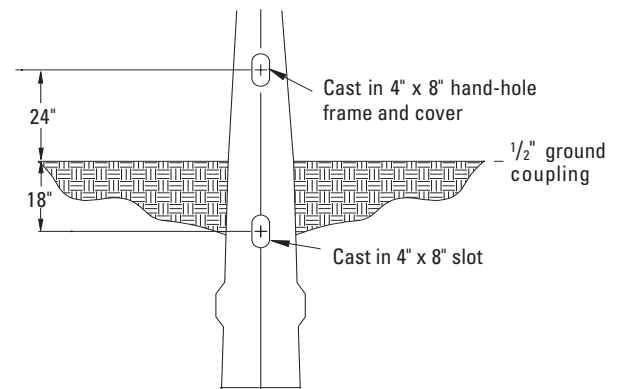
EPA (ft²) with 1.3 gust

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

Ordering Information: See page 494
(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.



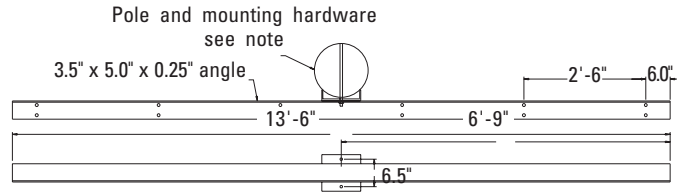
Angle Iron Crossarms for Concrete Poles

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).

Angle Iron Crossarms for Concrete Poles

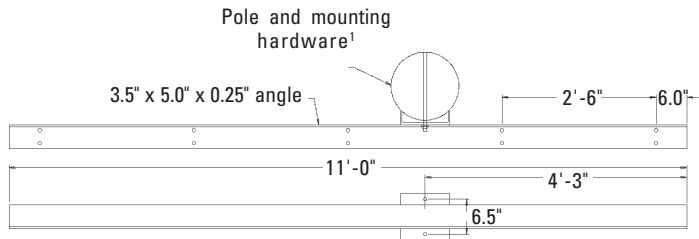
Catalog Number	Arm EPA (sq. ft.)	Weight (lbs.)
ACRCW2	1.80	50.0
ACRCW3	3.00	86.0
ACRCW4	4.50	121.0
ACRCW5	5.70	157.0
ACRCW6	7.00	193.0

ACRCW6



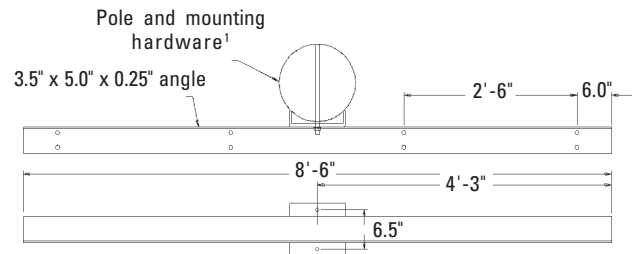
6-Fixture Angle Arm

ACRCW5



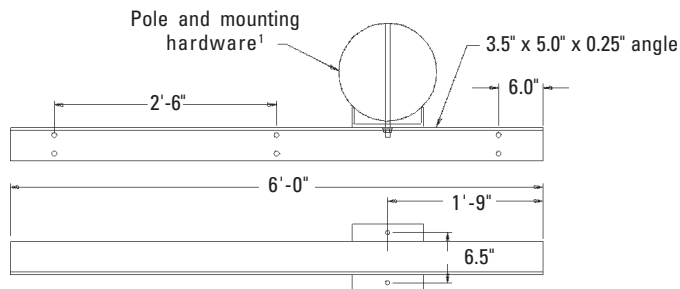
5-Fixture Angle Arm

ACRCW4



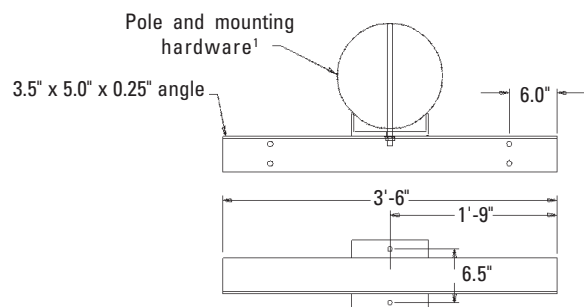
4-Fixture Angle Arm

ACRCW3



3-Fixture Angle Arm

ACRCW2



2-Fixture Angle Arm

NOTES:

- 1 Connecting hardware for crossarm to pole is supplied by others. Bolt holes in c-channel are 0.88" diameter.

Pre-wired Tubular Crossarms for Concrete Poles

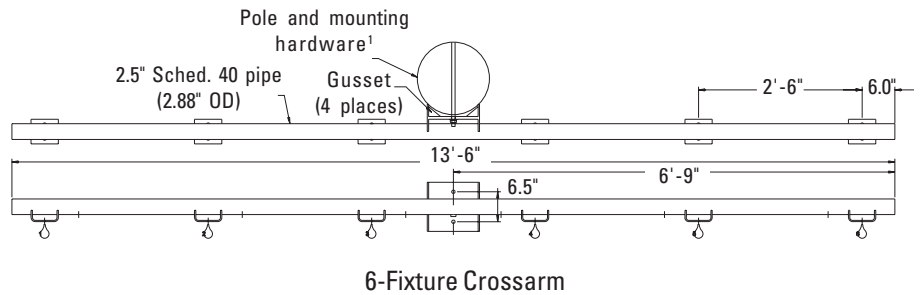
Projected area is for the crossarm only. The crossarm projected area is added to the luminaire projected area to get a total effective projected area (EPA).

Use in conjunction with CV3P luminaire option.

Pre-wired Tubular Crossarms for Concrete Poles

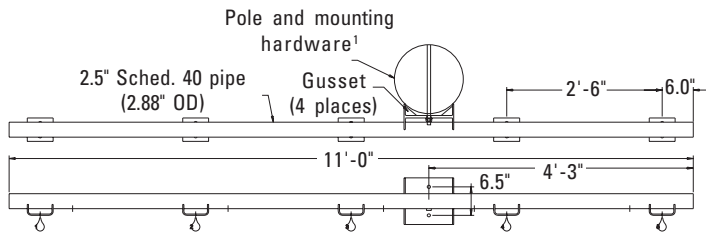
Catalog Number	EPA (sq. ft.)	Weight (lbs.)
SPXCW2	1.00	23.5
SPXCW3	1.80	40.0
SPXCW4	2.50	56.5
SPXCW5	3.20	73.0
SPXCW6	3.90	89.5

SPXCW6



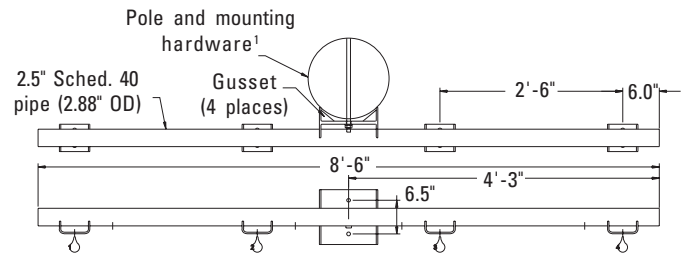
6-Fixture Crossarm

SPXCW5



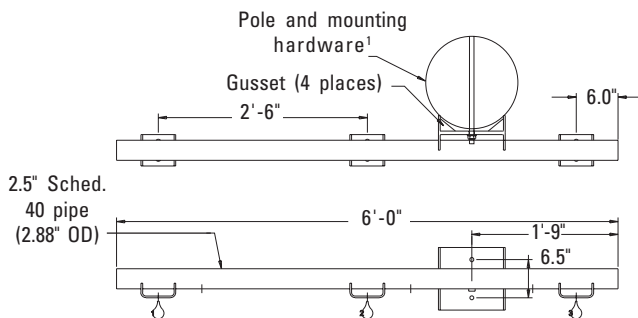
5-Fixture Crossarm

SPXCW4



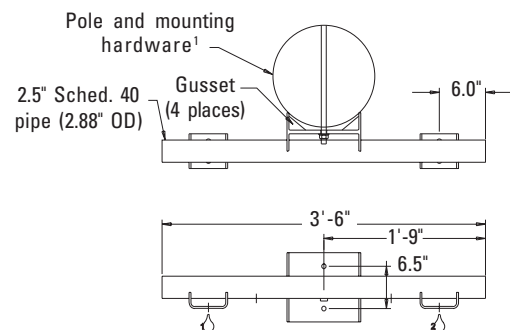
4-Fixture Crossarm

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.