



## FEATURES & SPECIFICATIONS

**INTENDED USE** — Ideal for car lots, street lighting or parking areas.

**CONSTRUCTION** — Rugged, .063" thick, aluminum rectangular housing. Formed for weather-tight seal and integrity. Naturally anodized, extruded aluminum door frame with mitered corners, is retained with two .188" diameter hinge pins and secured with one quarter-turn, quick-release fastener. Weatherproof seal between housing and door frame is accomplished with an integrally designed, extruded silicone gasket that snaps into the door frame, and another gasket applied to the housing.

Finish: Standard finish is dark bronze (DDB), polyester powder finish with other architectural colors available.

**OPTICS** — Reflectors are anodized and segmented for superior uniformity and control. Reflectors attach with tool-less fasteners and are rotatable and interchangeable. Three cutoff distributions available: Type II (roadway), Type III (asymmetric), Type IV (forward throw, sharp cutoff). Lens is .125" thick impact-resistant tempered glass with thermally applied silk-screened shield.

**ELECTRICAL** — Ballast: High pressure sodium: 70-150W is high-reactance, high power factor. Constant wattage autotransformer for 200-250W. Metal halide: 100-150W is high-reactance, high power factor and standard with pulse-start ignitor technology. "SCWA" not required. Constant wattage autotransformer for 175-250W. Super CWA (pulse start ballast), 88% efficient and EISA legislation compliant, is required for 151-200W (SCWA option) for U.S. shipments only. CSA or INTL required for probe-start shipments outside the U.S. Pulse-start ballast (SCWA) required for 200W.

Ballasts are 100% factory-tested.

Socket is porcelain, horizontally mounted medium base socket for 70-150W and position-oriented mogul base socket for HPS and 175M-250W, with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W-600V.

**INSTALLATION** — Extruded aluminum arm for pole or wall mounting is shipped in fixture carton. Optional mountings available.

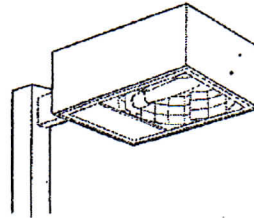
**LISTING** — UL listed for wet locations. Listed and labeled to comply with Canadian standards (see Options).

**WARRANTY** — 1-year limited warranty. Complete warranty terms located at

[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

Note: Specifications subject to change without notice.

Catalog Number
Notes
Type



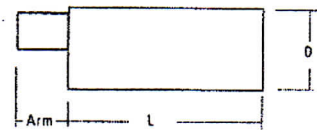
Area Lighting

# KSF1

METAL HALIDE: 100-250W  
HIGH PRESSURE SODIUM: 70-200W  
15' to 25' Mounting

### Specifications

EPA: 1.5 ft<sup>3</sup> (.14 m<sup>3</sup>)  
(Includes arm)  
Length: 21-1/4 (54.0)  
Width: 15-15/32 (39.3)  
Depth: 7-1/4 (18.4)  
Arm: 4 (10.2)  
\*Weight: 35 lbs (15.9 kg)  
\*\*Weight as configured in example below.  
All dimensions are inches (centimeters) unless otherwise specified.



Mounting option	Drilling template
SPxx, RPxx, DA12P	5
WBxx, DA12WB	6
WWxx	7

### ORDERING INFORMATION

For shortest lead times, configure product using bolded options.

Example: KSF1 1505 R3 TB SP04 LPI

Series	Wattage	Distribution	Voltage	Ballast	Mounting
KSF1	<b>Metal halide</b>	R2	120 347	(blank) Magnetic	<b>Type</b> SP___ Square pole RP___ Round pole WB___ Wall bracket WW___ Wood pole or wall bracket <b>Arm length**</b> 04 4" arm 06 6" arm 09 9" arm 12 12" arm <b>Shipped separately</b> DA12P Degree arm, pole DA12WB Degree arm, wall XMA Mast arm adapter KTMB Twin mounting bar
	100M <sup>1</sup> 175M <sup>2</sup> 200M <sup>1</sup>	R3	208 <sup>7</sup> 480 <sup>7</sup>	CWI Contant wattage isolated	
	150M 250M <sup>4</sup>	R4SC	240 <sup>7</sup> TB <sup>3</sup>	<b>Pulse Start</b> <b>SCWA</b> Super CWA pulse-start ballast	
	<b>Ceramic metal halide<sup>5</sup></b> 100MHC <sup>3</sup> 150MHC		277 23050HZ <sup>2</sup>	NOTE: For shipments to U.S. territories, SCWA must be specified to comply with EISA.	
	<b>High pressure sodium<sup>1</sup></b> 70S <sup>6</sup> 100S 200S <sup>5</sup> 150S <sup>6</sup>				

Options:				Finish <sup>8</sup> :				Lamp <sup>9</sup> :
<b>Shipped installed in fixture</b>	EC Emergency circuit <sup>10</sup>	CSA CSA Certified	PE1 NEMA twist-lock PE (120, 208, 240V)	(blank) Dark bronze	DBLXD Black	LPI Lamp included		
PER NEMA twist-lock receptacle only (no photocontrol)	NOM NOM Certified <sup>4</sup>	PE3 NEMA twist-lock PE (347V)	DWH White	DNAXD Natural aluminum	L/LP Less lamp			
SF Single fuse (120, 277, 347V) n/a TB	INTL Available for MH probe-start shipping outside the U.S.	PE4 NEMA twist-lock PE (480V)	DBL Black	DWHXD White				
DF Double fuse (208, 240, 480V) n/a TB	KW1 KiloWatch <sup>11</sup> 120V control relay <sup>12</sup>	PE7 NEMA twist-lock PE (277V)	DMB Medium bronze	DDBTXD Textured dark bronze				
QRS Quartz restrrike system <sup>11</sup>	KW4 KiloWatch <sup>11</sup> 277V control relay <sup>12</sup>	SC Shorting cap for PER option	DNA Natural aluminum	DBLBXD Textured black				
ORSTD QRS time delay <sup>11</sup>	REGC1 California Title 20 effective 1/1/2010	HS House side shield (R2, R3) <sup>13,15</sup>	CRT Non-stick protective coating <sup>17</sup>	DNATXD Textured natural aluminum				
		VG Vandal guard <sup>14</sup>	<b>Super Durable Finishes</b>	DWHGXD Textured white				
			DDBXD Dark bronze					

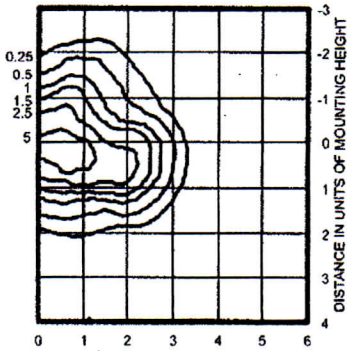
Accessories: Tenon Mounting Slipfitter							
Number of fixtures							
Tenon O.D.	One	Two@180°	Two@90° <sup>19</sup>	Three@120°	Three@90° <sup>19</sup>	Four@90° <sup>19</sup>	
2-3/8" (6)	T20-190	T20-280	T20-290	T20-320	T20-390	T20-490	
2-7/8" (7.3)	T25-190	T25-280	T25-290	T25-320	T25-390	T25-490	
4" (10.2)	T35-190	T35-280	T35-290	T35-320	T35-390	T35-490	

- Notes**
- Not available with SCWA.
  - These wattages do not comply with California Title 20 regulations.
  - Must be ordered with SCWA.
  - These wattages require the REGC1 option to be chosen for shipments into California for Title 20 compliance. 250W REGC1 is not available in 347V or 480V.
  - Not available with L/LP.
  - Not available with 480V.
  - Must specify CWI for use in Canada.
  - Optional multi-tap ballast (120, 208, 240, 277V): (120, 277, 347V in Canada).
  - Consult factory for available wattages.
  - Use 9" arm when two or more luminaires are oriented on a 90° drilling pattern.
  - Maximum allowable wattage lamp included.
  - KiloWatch<sup>11</sup> controls are available only with 1505.
  - May be ordered as an accessory.
  - Prefix with KSF1 when ordering as an accessory.
  - Available with R2 and R3 distributions only.
  - See [www.lithonia.com/architects](http://www.lithonia.com/architects) for additional color options.
  - Black finish only.
  - Must be specified.
  - Must use RP09 or RP12.

# KSF1 Arm-Mounted Rectilinear Cutoff Lighting

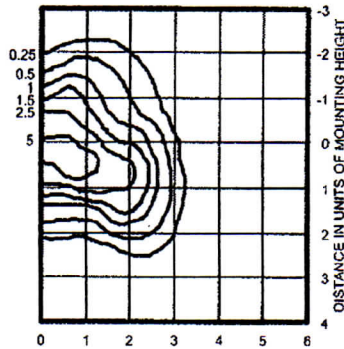
Coefficient of Utilization   
Initial Footcandles

KSF1 250M R2 TEST NO: 1194090701P  
ISOILLUMINANCE PLOT (Footcandle)



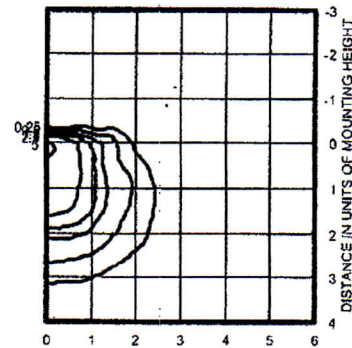
250W pulse start metal halide lamp, rated 22500 lumens. Footcandle values based on 20' mounting height.  
Classification: Type II, Short, Full Cutoff

KSF1 250M R3 TEST NO: 1194080302P  
ISOILLUMINANCE PLOT (Footcandle)



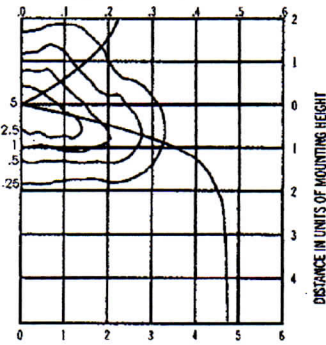
250W pulse start metal halide lamp, rated 22500 lumens. Footcandle values based on 20' mounting height.  
Classification: Type III, Short, Full Cutoff

KSF1 250M R4SC TEST NO: 1194080901P  
ISOILLUMINANCE PLOT (Footcandle)



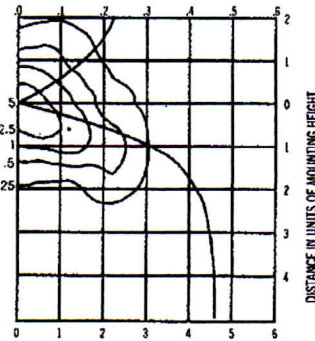
250W pulse start metal halide lamp, rated 22500 lumens. Footcandle values based on 20' mounting height.  
Classification: Unclassified (Type IV, Very Short), Full Cutoff

KSF1 150S R2 Test No. TEST NO. 1194090802  
COEFFICIENT OF UTILIZATION



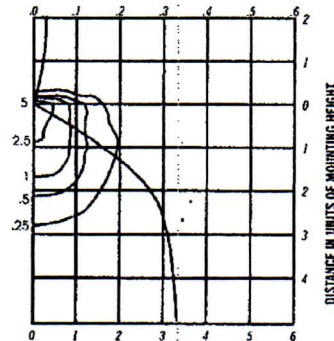
150W high pressure sodium lamp, 20000 rated lumens. Footcandle values based on 35' mounting height, Distribution II, full cutoff.

KSF1 150S R3 Test No. TEST NO. 1194081603  
COEFFICIENT OF UTILIZATION



150W high pressure sodium lamp, 16000 rated lumens. Footcandle values based on 35' mounting height, Distribution III, full cutoff.

KSF1 150S R4SC Test No. TEST NO. 1194081502  
COEFFICIENT OF UTILIZATION



150W high pressure sodium lamp, 16000 rated lumens. Footcandle values based on 35' mounting height, Distribution IV, full cutoff.

**NOTES:**

- 1 Photometric data for other distributions can be accessed from the Lithonia Lighting website. ([www.Lithonia.com](http://www.Lithonia.com))
- 2 For electrical characteristics, consult outdoor technical data specification sheets on [www.Lithonia.com](http://www.Lithonia.com).
- 3 Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change.

**Mounting Height Correction Factor**

(Multiply the fc level by the correction factor)

35' mounting height	20' mounting height
15 ft. = 5.4	15 ft. = 1.78
30 ft. = 1.36	30 ft. = 0.45
40 ft. = 0.77	40 ft. = 0.25

$$\left( \frac{\text{Existing Mounting Height}}{\text{New Mounting Height}} \right)^2 = \text{Correction Factor}$$



KSF1-150



## FEATURES & SPECIFICATIONS

**INTENDED USE** — Square straight steel pole for up to 39-foot mounting height.

**CONSTRUCTION** — Weldable-grade, hot-rolled, commercial-quality carbon steel tubing with a minimum yield of 55,000 psi (11-gauge), or 50,000 psi (7-gauge). Uniform wall thickness of .1196" or .1793". Shaft is one-piece with a full-length longitudinal high-frequency 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 is fabricated from hot-rolled carbon steel plate conforming to ASTM A36, that meets or exceeds a minimum-yield strength of 36,000 psi. Base plate and shaft are circumferentially welded top and bottom. Base cover is finished to match pole.

A handhole having nominal dimensions of 3" x 5" for all shafts. Included is a cover with attachment screws.

Top cap provided with all drill-mount and open top "PT" poles.

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

Finish: Must specify finish.

Grounding: Provision located immediately inside handhole rim. Grounding hardware is not included (provided by others).

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

Note: Specifications subject to change without notice.

Actual performance may differ as a result of end-user environment and application.

Catalog Number
Notes
Type



Anchor Base Poles

# SSS

SQUARE STRAIGHT STEEL

### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: SSS 20 5C DM19 DOB

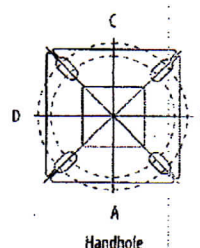
Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness	Mounting <sup>1</sup>	Options	Finish <sup>9</sup>	
SSS	10 – 39 feet (See back page.)	(See back page.)	<b>Tenon mounting</b> PT Open top (includes top cap) T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) T35 4" O.D. (3-1/2" NPS) <b>Drill mounting<sup>2</sup></b> DM19 1 at 90° DM28 2 at 180° DM28 PL 2 at 180° with one side plugged DM29 2 at 90° DM39 3 at 90° DM49 4 at 90° <b>CSX/DSX/AERIS™/OMERO™ Drill mounting<sup>2</sup></b> DM19AS 1 at 90° DM28AS 2 at 180° DM29AS 2 at 90° DM39AS 3 at 90° DM49AS 4 at 90°	<b>AERIS™ Suspend drill mounting<sup>2,3</sup></b> DM19AST_ 1 at 90° DM28AST_ 2 at 180° DM29AST_ 2 at 90° DM39AST_ 3 at 90° DM49AST_ 4 at 90° <b>OMERO™ Suspend drill mounting<sup>2,3</sup></b> DM19MRT_ 1 at 90° DM28MRT_ 2 at 180° DM29MRT_ 2 at 90° DM39MRT_ 3 at 90° DM49MRT_ 4 at 90°	<b>Shipped installed</b> L/AB Less anchor bolts VD Vibration damper TP Tamper proof H1-18Sxx Horizontal arm bracket (1 fixture) <sup>4,5</sup> FDLxx Festoon outlet less electrical <sup>6</sup> CPL12xx 1/2" coupling <sup>7</sup> CPL34xx 3/4" coupling <sup>7</sup> CPL1xx 1" coupling <sup>7</sup> NPL12xx 1/2" threaded nipple <sup>7</sup> NPL34xx 3/4" threaded nipple <sup>7</sup> NPL1xx 1" threaded nipple <sup>7</sup> EHHxx Extra handhole <sup>6</sup> MAEX Match existing <sup>7</sup> USPOM United States point of manufacture <sup>8</sup> IC Interior coating <sup>9</sup>	<b>Standard colors</b> DDB Dark bronze DWH White DBL Black DMB Medium bronze DNA Natural aluminum <b>Classic colors</b> DSS Sandstone DGC Charcoal gray DTG Tennis green DBR Bright red DSB Steel blue <b>Architectural colors (powder finish)<sup>9</sup></b>

#### NOTES:

- PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination includes a required extra handhole.
- The drilling template to be used for a particular luminaire depends on the luminaire that is used. Refer to the Technical Data Section of the Outdoor Binder for Drilling Templates.
- Insert "1" or "2" to designate fixture size; e.g. DM19AS12.
- Specify location and orientation when ordering option.  
For 1st "x": Specify the height in feet above base of pole.  
Example: 5ft = 5 and 20ft = 20  
For 2nd "x": Specify orientation from handhole (A,B,C,D)  
Refer to the Handhole Orientation diagram above.

- Horizontal arm is 18" x 2-3/8" O.D. tenon standard.
- Combination of tenon-top and drill mount includes extra handhole.
- Must add original order number
- Use when mill certifications are required.
- Provides enhanced corrosion resistance.
- Additional colors available; see [www.lithonia.com/archcolors](http://www.lithonia.com/archcolors) or Architectural Colors brochure (Form No. 794.3). Powder finish standard.

#### HANDHOLE ORIENTATION



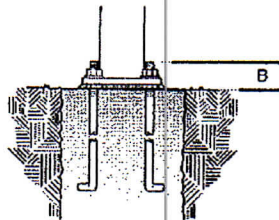
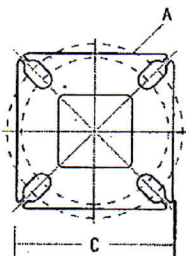
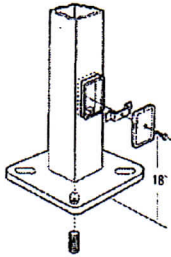
#### IMPORTANT INSTALLATION NOTES:

- Do not erect poles without having fixtures installed.
- 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.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.

# SSS Square Straight Steel Poles

TECHNICAL INFORMATION													
Catalog Number	Nominal mount ht. (ft)	Pole Shaft Size (in x ft)	Wall Thickness (in)	Gauge	EPA (ft <sup>2</sup> ) with 1.3 gust						Bolt Circle (in)	Bolt Size (in x in x in)	Approximate ship (lbs)
					80 mph	Max. weight	90 mph	Max. weight	100 mph	Max. weight			
SSS 10 4C	10	4.0 x 10.0	0.1196	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	0.1196	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	0.1196	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	0.1196	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	0.1196	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	0.1196	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	0.1793	7	14	350	11	275	8	200	8-9	3/4 x 30 x 3	198
SSS 20 5C	20	5.0 x 20.0	0.1196	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	0.1793	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	0.1196	11	4.8	150	2.6	100	1	50	8-9	3/4 x 18 x 3	170
SSS 25 4G	25	4.0 x 25.0	0.1793	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	0.1196	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	0.1793	7	18.5	463	13.3	333	9.5	238	10-12	1 x 36 x 4	360
SSS 30 4G	30	4.0 x 30.0	0.1793	7	6.7	168	4.4	110	2.6	65	8-9	3/4 x 30 x 3	295
SSS 30 5C	30	5.0 x 30.0	0.1196	11	4.7	150	2	50	--	--	10-12	1 x 36 x 4	265
SSS 30 5G	30	5.0 x 30.0	0.1793	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	0.1793	7	19	475	13.2	330	9	225	11-13	1 x 36 x 4	520
SSS 35 5G	35	5.0 x 35.0	0.1793	7	5.9	150	2.5	100	--	--	10-12	1 x 36 x 4	440
SSS 35 6G	35	6.0 x 35.0	0.1793	7	12.4	310	7.6	190	4.2	105	11-13	1 x 36 x 4	540
SSS 39 6G	39	6.0 x 39.0	0.1793	7	7.2	180	3	75	--	--	11-13	1 x 36 x 4	605

## BASE DETAIL



POLE DATA						
Shaft base size	Bolt circle A	Bolt projection B	Base square C	Template description	Anchor bolt description	Anchor bolt and template number
4"C	8-1/2"	2-3/4"-4"	8"	ABTEMPLATE PJ50004	AB18-0	ABSSS-4C
4"G	8-1/2"	2-3/4"-4"	8"	ABTEMPLATE PJ50004	AB30-0	ABSSS-4G
5"	10"-12"	3-3/8"-4"	11"	ABTEMPLATE PJ50010	AB36-0	ABSSS-5
6"	11"-13"	3-3/8"-4"	12-1/2"	ABTEMPLATE PJ50011	AB36-0	N/A

### IMPORTANT:

• These specifications are intended for general purposes only. Lithonia reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.



POLE-SSS