LITHONIA LIGHTING®

FEATURES & SPECIFICATIONS

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

CONSTRUCTION — Rugged, .063" thick, aluminum rectilinear 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: Metal halide: 100W is high-reactance, high power factor and standard with pulse-start ignitor technology. "SCWA" not required. Constant wattage autotransformer for 250W. Super CWA (pulse start ballast), DOE 2017 compliant, is required for 200W (SCWA option) for U.S. shipments only. CSA or INTL required for probe-start shipments ouside the U.S. Pulse-start ballast (SCWA) required for 200M.

Ballasts are 100% factory-tested.

Socket is porcelain, horizontally mounted medium base socket for 100M and position-oriented mogul base socket for HPS and 250M, 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).
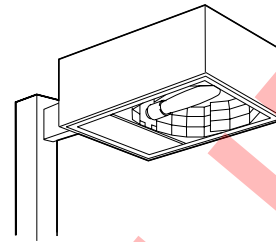
WARRANTY —1-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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

Specifications subject to change without notice.

Area Lighting

KSF1

METAL HALIDE: 100-250W

HIGH PRESSURE SODIUM: 70-200W

15' to 25' Mounting

Specifications

EPA: 1.5 ft^2 (.14 m^2) (includes arm)

Length: 21-1/4 (54.0)
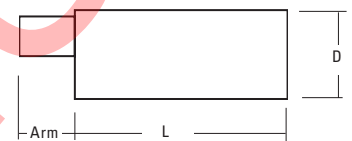
Width: 15-15/32 (39.3)

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 150S R3 TB SP04 LPI

KSF1						
Series	**Wattage**	**Distribution**	**Voltage**	**Ballast**	**Mounting**	
KSF1	Metal halide	R2 Type II roadway	120 **347**	**(blank)** Magnetic	**Type**	**Arm length**[7]
	100M[1] **250M**[2]	**R3** Type III asymmetric	**208**[4] 480[4]	CWI Constant wattage isolated[6]	**SP**__ Square pole	**04** 4" arm
	Ceramic metal halide[3]	R4SC Type IV forward throw, sharp cutoff	240[4] TB[5]	**Pulse Start** HID Ballast/Lamp Systems Ⓔ	RP__ Round pole	06 6" arm
	100MHC[1]		**277** 23050HZ[6]	**SCWA** Super CWA pulse-start ballast	WB__ Wall bracket	**09** 9" arm
	High pressure sodium[1]			NOTE: For shipments to U.S. territories, SCWA must be specified to comply with EISA.	WW__ Wood pole or wall bracket	12 12" arm
	70S[4] 150S[4]					

Shipped separately
DA12P Degree arm, pole
DA12WB Degree arm, wall
KMA Mast arm adapter
KTMB Twin mounting bar

Options				**Finish**[13]		**Lamp**[15]
Shipped installed in fixture	EC Emergency circuit[8]	Shipped separately[10]		**(blank)** Dark bronze	DBLXD Black	**LPI** Lamp included
PER NEMA twist-lock receptacle only (no photocontrol)	**CSA** CSA Certified	PE1 NEMA twist-lock PE (120, 208, 240V)		DWH White	DNAXD Natural aluminum	**L/LP** Less lamp
	NOM NOM Certified[5]			**DBL** Black	DWHXD White	
SF Single fuse (120, 277, 347V) n/a TB	INTL Available for MH probe-start shipping outside the U.S.	PE3 NEMA twist-lock PE (347V)		DMB Medium bronze	DDBTXD Textured dark bronze	
DF Double fuse (208, 240, 480V) n/a TB	KW1 KiloWatt® 120V control relay[9]	PE4 NEMA twist-lock PE (480V)		**DNA** Natural aluminum	DBLBXD Textured black	
QRS Quartz restrike system[8]	KW4 KiloWatt® 277V control relay[9]	PE7 NEMA twist-lock PE (277V)		CRT Non-stick protective coating[14]	DNATXD Textured natural aluminum	
	REGC1 California Title 20 effective 1/1/2010	SC Shorting cap for PER option		Super Durable Finishes	DWHGXD Textured white	
QRSTD QRS time delay[6,8]		HS House side shield (R2, R3)[11,12]		DDBXD Dark bronze		
		VG Vandal guard[11]				

NIGHTTIME FRIENDLY™

Accessories: Tenon Mounting Slipfitter						
Number of fixtures.						
Tenon O.D.	One	Two@180°	Two@90°[17]	Three@120°	Three@90°[17]	Four@90°[17]
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
1 Not available with SCWA.
2 These wattages require the REGC1 option to be chosen for shipments into California for Title 20 compliance. 250M REGC1 is not available in 347V or 480V.
3 Not available with L/LP.
4 Must specify CWI for use in Canada.
5 Optional multi-tap ballast (120, 208, 240, 277V); (120, 277, 347V in Canada).
6 Consult factory for available wattages.
7 Use 9" arm when two or more luminaires are oriented on a 90° drilling pattern.
8 Maximum allowable wattage lamp included.
9 KiloWatt® controls are available only with 150S.
10 May be ordered as an accessory.
11 Prefix with KSF1 when ordering as an accessory.
12 Available with R2 and R3 distributions only.
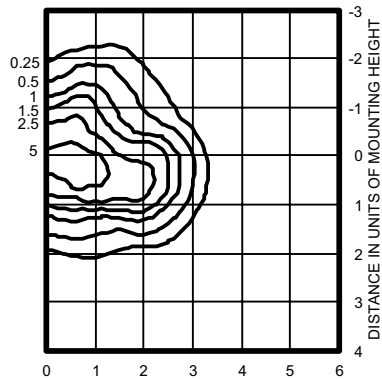13 See www.lithonia.com/archcolors for additional color options.
14 Black finish only.
15 Must be specified.
16 Must use RP09 or RP12.

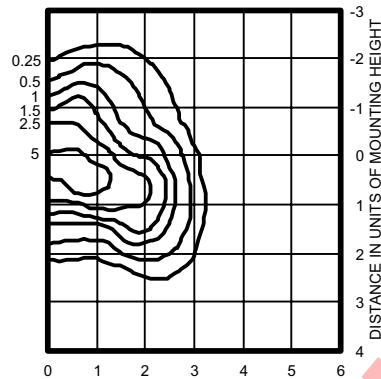# **KSF1** Arm-Mounted Rectilinear Cutoff Lighting

Coefficient of Utilization _____
Initial Footcandles ━━━━━━

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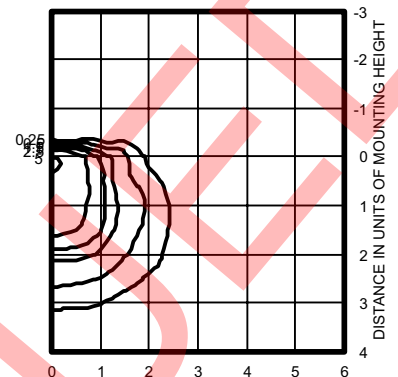**ISOILLUMINANCE PLOT (Footcandle)**

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
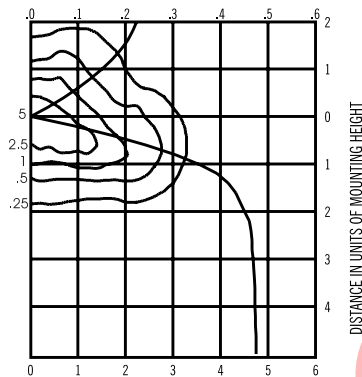**ISOILLUMINANCE PLOT (Footcandle)**

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
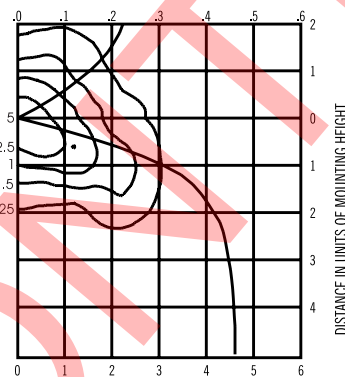**ISOILLUMINANCE PLOT (Footcandle)**

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
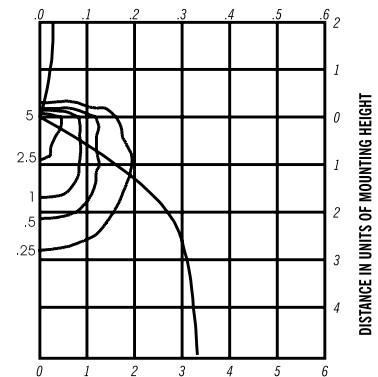COEFFICIENT OF UTILIZATION

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)

2   For electrical characteristics, consult outdoor technical data specification sheets on 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-M-S