

## FEATURES & SPECIFICATIONS

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

**CONSTRUCTION** — Rugged, die-cast, soft corner aluminum housing with 0.12" nominal wall thickness. Die-cast door frame has impact-resistant, tempered, glass lens that is fully gasketed with one-piece tubular silicone.

**FINISH** — Standard finish is dark bronze (DDB) polyester powder finish, with other architectural colors available.

**OPTICAL SYSTEM** — Anodized, aluminum hydroformed reflectors: IES full cutoff distributions R2 (asymmetric), R3 (asymmetric), R4 (forward throw) and R5S (square) are interchangeable. High-performance anodized, segmented aluminum reflectors IES full cutoff distributions SR2 (asymmetric), SR3 (asymmetric) and SR4SC (forward throw, sharp cutoff). Segmented reflectors attach with tool-less fasteners and are rotatable and interchangeable.

**ELECTRICAL SYSTEM** — Ballast: High pressure sodium: 70-150W is high reactance, high power factor. Constant wattage autotransformer for 200-400W. Metal halide: 70-150W is high reactance, high power factor and is standard with pulse-start ignitor technology. "SCWA" not required. Constant wattage autotransformer for 175-400W. Super CWA (pulse start ballast), 88% efficient and EISA legislation compliant, is required for metal halide 151-400W (SCWA option) for US shipments only. CSA, NOM or INTL required for probe start shipments outside of the US. Pulse-start ballast (SCWA) required for 200W, 320W, or 350W. Ballast is 100% factory-tested.

Socket: Porcelain, horizontally oriented medium base socket for 70-150M. Mogul base socket for 175M and above, and 70-400S, with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V.

**LISTING** — UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and wet locations. IP65 rated in accordance with standard IEC 529.

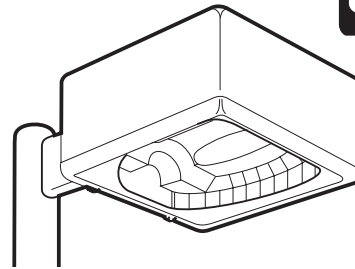
Specifications subject to change without notice.

Catalog Number	
Notes	Type

**CONTOUR**<sup>®</sup>  
SERIES

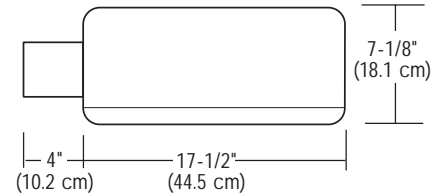
Soft Square Lighting

# KAD



### Specifications

EPA: 1.2 ft.<sup>2</sup>  
 \*Weight: 35.9 lbs (16.28 kg)  
 Length: 17-1/2" (44.5 cm)  
 Width: 17-1/2" (44.5 cm)  
 Depth: 7-1/8" (18.1 cm)  
 \*Weight as configured in example below.



MH: 70W-400W  
 HPS: 70W-400W  
 20' to 35' Mounting

## ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: KAD 400M R3 TB SCWA SPD04 LPI

### KAD

Series	Wattage		Voltage	Mounting		Ballast	Options	Lamp <sup>18</sup>
KAD	Metal halide	High pressure sodium <sup>1</sup>	120	Type	Length <sup>10</sup>	(blank) <b>Magnetic ballast</b>	Shipped installed in fixture	LPI <b>Lamp included</b>
	70M <sup>1,2</sup>	70S	208 <sup>7</sup>	SPD <b>Square pole</b>	04 4" arm	CWI Constant wattage isolated <sup>9</sup>	SF Single fuse 120, 277, 347V <sup>13</sup>	L/LP <b>Less lamp</b>
	100M <sup>1</sup>	100S	240 <sup>7</sup>	RPD <b>Round pole</b>	06 6" arm	 SCWA Super CWA pulse start ballast	DF Double fuse 208, 240, 480 <sup>13</sup>	Finish <sup>17</sup> (blank) <b>Dark bronze</b> DWH <b>White</b> DBL <b>Black</b> DMB <b>Medium bronze</b> DNA <b>Natural aluminum</b>
	150M	150S	277	WBD <b>Wall bracket</b>	09 9" arm		PER <b>NEMA twist-lock receptacle only (no photocontrol)</b>	
	175M <sup>20</sup>	250S	347	WWD <b>Wood pole or wall</b>	12 12" arm	QRS Quartz restrrike system <sup>15</sup>	QRSTD QRS time delay <sup>15</sup>	
	200M <sup>3</sup>	400S	480 <sup>7</sup>	DAD12P Degree arm (pole) <sup>11</sup>		WTB Terminal wiring block <sup>14</sup>	HS House-side shield	
	250M <sup>21</sup>	Ceramic metal halide	23050HZ <sup>9</sup>	DAD12WB Degree arm (wall) <sup>11</sup>		CSA <b>CSA Certified</b>	INTL Available for MH probe start shipping outside the U.S.	
	320M <sup>3</sup>	70MHC <sup>1,2</sup>		WBA Decorative wall bracket <sup>11,12</sup>		REGC1 California Title 20 effective 1/1/2010	REGC1	
	350M <sup>3,20</sup>	100MHC <sup>1</sup>		KMA Mast arm external fitter		Shipped separately <sup>16</sup>	PE1 NEMA twist-lock PE (120, 208, 240V)	
	400M <sup>4,21</sup>	150MHC		KTMB Twin mounting bar		PE3 NEMA twist-lock PE (347V)	PE4 NEMA twist-lock PE (480V)	
						PE7 NEMA twist-lock PE (277V)	SC Shortening cap for PER option	
						VG Vandal guard	WG Wire guard	

Distribution

**Hydroformed reflectors**  
 R2 IES type II asymmetric<sup>5</sup>  
 R3 IES type III asymmetric<sup>5</sup>  
 R4 IES type IV forward throw<sup>5</sup>  
 R5S IES type V square  
**Segmented reflectors<sup>6</sup>**  
 SR2 IES type II asymmetric<sup>5</sup>  
 SR3 IES type III asymmetric<sup>5</sup>  
 SR4SC IES type IV forward throw

NOTES:  
 1 Not available with SCWA.  
 2 Not available with 480V.  
 3 Must be ordered with SCWA.  
 4 Reduced jacket ED28 required for SR2, SR3 and SR4SC optics.  
 5 House-side shield available.  
 6 Segmented reflectors not available with QRSTD.  
 7 Must specify CWI for use in Canada.  
 8 Optional multi-tap ballast (120, 208, 240, 277V; in Canada: 120, 277, 347V).  
 9 Consult factory for available  
 10 9" arm is required when two or more luminaires are oriented on a 90° drilling pattern.  
 11 Ships separately.  
 12 Available with SPD04 and SPD09.  
 13 Must specify voltage. N/A with TB.  
 14 Only available with SR2, SR3, & SR4SC optics.  
 15 Max allowable wattage lamp included.  
 16 May be ordered as an accessory.  
 17 See www.lithonia.com/archolors for additional color options.  
 18 Must be specified.  
 19 Must use RPD09  
 20 These wattages do not comply with California Title 20 regulations.  
 21 These wattages require the REGC1 option to be chosen for shipments into California for Title 20 compliance. 250M REGC1 in not available in 347 or 480V.

### Accessories

Order as separate catalog number.

Tenon O.D.	One	Two@180°	Two@90°	Three@120°	Three@90°	Four@90°
2-3/8"	T20-190	T20-280	T20-290 <sup>19</sup>	T20-320 <sup>19</sup>	T20-390 <sup>19</sup>	T20-490 <sup>19</sup>
2-7/8"	T25-190	T25-280	T25-290 <sup>19</sup>	T25-320	T25-390 <sup>19</sup>	T25-490 <sup>19</sup>
4"	T35-190	T35-280	T35-290 <sup>19</sup>	T35-320	T35-390 <sup>19</sup>	T35-490 <sup>19</sup>

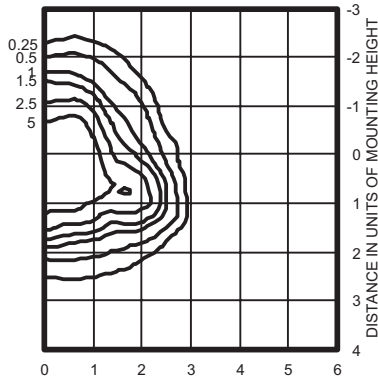
KADVG Vandal guard  
 KADWG Wire guard



# KAD Arm-mounted Soft Square Cutoff

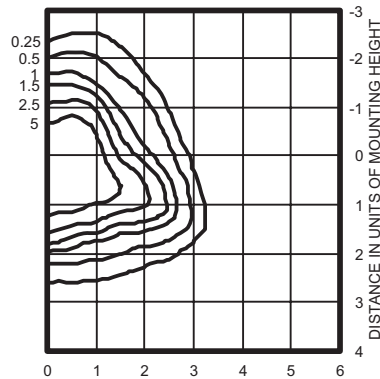
Coefficient of Utilization \_\_\_\_\_  
Initial Footcandles \_\_\_\_\_

**KAD 400M R2** Test no. 1193083101P  
**ISOILLUMINANCE PLOT (Footcandle)**



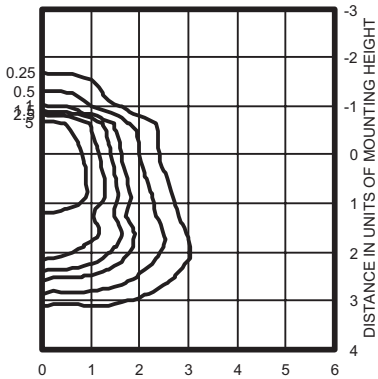
400W pulse start metal halide lamp, rated 38000 lumens. Footcandle values based on 20' mounting height.  
Classification: Type II, Short, Full Cutoff

**KAD 400M R3** Test no. 1192040902P  
**ISOILLUMINANCE PLOT (Footcandle)**



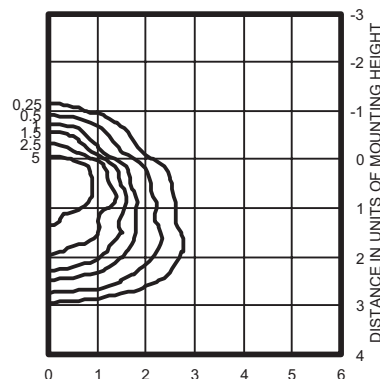
400W pulse start metal halide lamp, rated 42,000 lumens. Footcandle values based on 20' mounting height.  
Classification: Type II, Short, Full Cutoff

**KAD 400M R4** Test no. 1191110101P  
**ISOILLUMINANCE PLOT (Footcandle)**



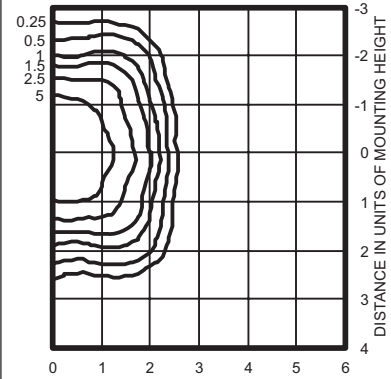
400W pulse start metal halide lamp, rated 38,000 lumens. Footcandle values based on 20' mounting height.  
Classification: Unclassified (Type III, Very Short), Full Cutoff

**KAD 400M R4HS** Test no. 1192061101P  
**ISOILLUMINANCE PLOT (Footcandle)**



400W pulse start metal halide lamp, rated 38,000 lumens. Footcandle values based on 20' mounting height.  
Classification: Unclassified (Type III, Very Short), Full Cutoff

**KAD 400M R5S** Test no. 1194040801P  
**ISOILLUMINANCE PLOT (Footcandle)**



400W pulse start metal halide lamp, rated 38000 lumens. Footcandle values based on 20' mounting height.  
Classification: Unclassified (Type NC, Very Short), Full Cutoff

## Electrical Characteristics

	Primary voltage	Line current (Amps) Start/Operating	Primary dropout voltage	Input watts	Power factor (%)	Regulation Line V = Lamp lumens
400CWA	120	2.50/4.00	55			
Peak-lead Autotransformer	208	1.45/2.30	95			
	240	1.25/2.00	110	455	90+	±10% = ±10%
	277	1.10/1.75	125			
	480	.73/1.00	225			

Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications on this sheet are based on the most current available data and are subject to change without notice.

## NOTES:

1 Photometric data for other distributions can be accessed from [www.lithonia.com](http://www.lithonia.com).

## Mounting Height Correction Factor

(Multiply the fc level by the correction factor)

25 ft. = 1.44

35 ft. = 0.73

40 ft. = .56

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

