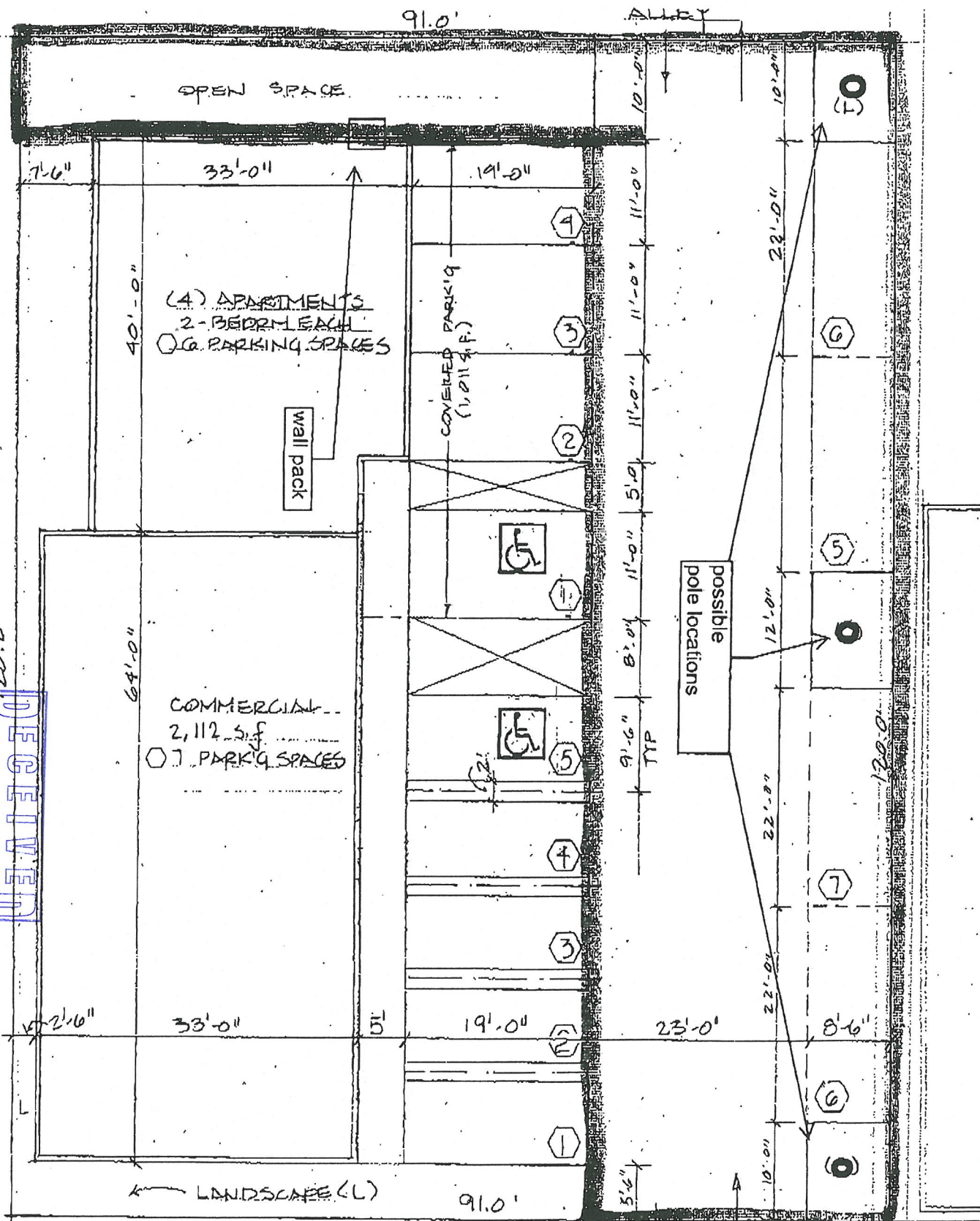



lighting plan



20.0'
 RECEIVED
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 BY



 PLOT PLAN
 SCALE: 1" = 10'-0"
 MAP: 18.12.26.22 TXL 3301



Catalog Number	
Notes	Type

FEATURES & SPECIFICATIONS

CONSTRUCTION

Weldable-grade, hot-rolled, commercial-quality carbon steel tubing with a minimum yield of 55,000 psi (11-gauge), 60,000 psi (7-gauge). Uniform wall thickness of .125" or .188". Shafts are one-piece with a longitudinal electric resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsion. Available shaft widths are 4", 5" and 6".

Anchor base is 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. 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 poles.

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

FINISH — Dark bronze (DDB) polyester powder standard. Other architectural colors available. See www.lithonia.com/archcolors.

GROUNDING — A nut holder located immediately inside the handhole rim is provided (ground bolt and nut 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.



Anchor Base Poles

SSS

SQUARE STRAIGHT STEEL

ORDERING INFORMATION

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

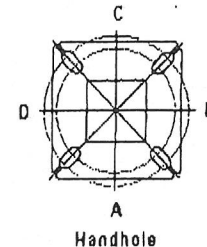
Example: SSS 20 5C DM19 DDB

Shaft type	Nominal shaft length	Nominal shaft base size/wall thickness	Mounting ¹	Options	Finish ⁷
SSS	10 – 39 feet (see back page.)	(See back page.)	Tenon Mounting PT Open lap 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) Drill Mounting² DM19 1 at 90° DM20 2 at 180° DM26PL 2 at 180° with one side plugged DM29 2 at 90° DM39 3 at 90° DM49 4 at 90° AERIS/OMERO Drill Mounting² DM19AS 1 at 90° DM29AS 2 at 180° DM29AS 2 at 90° DM39AS 3 at 90° DM49AS 4 at 90° AERIS Suspend Drill Mounting^{2,3} DM19AST_ 1 at 90° DM29AST_ 2 at 180° DM29AST_ 2 at 90° DM39AST_ 3 at 90° DM49AST_ 4 at 90° OMERO Suspend Drill Mounting^{2,3} DM19MRT_ 1 at 90° DM29MRT_ 2 at 180° DM29MRT_ 2 at 90° DM39MRT_ 3 at 90° DM49MRT_ 4 at 90°	Shipped installed UAB Less anchor bolts VD Vibration damper TP Tamper proof Hbx Horizontal arm bracket (1 fixture) ^{4,5} FDLor Fastoon outlet less electrical ⁶ FGLor Fastoon GFI outlet less electrical ⁶ 12CPxx 1/2" coupling ⁴ 34CPxx 3/4" coupling ⁴ 1CPxx 1" coupling ⁴ 12NPxx 1/2" threaded nipple ⁴ 34NPxx 3/4" threaded nipple ⁴ 1NPxx 1" threaded nipple ⁴ HHbx Extra handhole ^{4,6}	DDB Dark bronze DWH White DBL Black DMB Medium bronze DNA Natural aluminum GALV Galvanized finish

NOTES:

- When ordering tenon mounting and drill mounting for the same pole, follow this example: DM26/T20. The combination requires an 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. DM19AST2.
- 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 on this page.
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard.
- Combination of tenon-top and drill mount requires extra handhole.
- Additional colors available; see www.lithonia.com/archcolors. Powder finish standard.

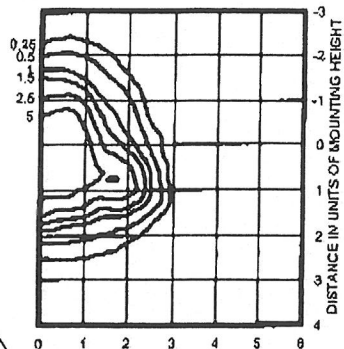
HANDHOLE ORIENTATION



KAD Metal Halide, Arm-mounted Soft Square Cutoff

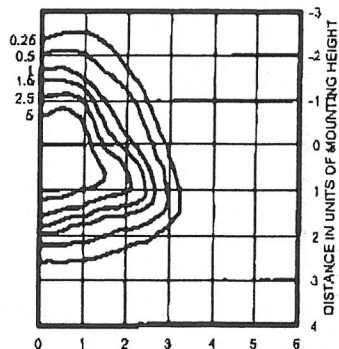
Coefficient of Utilization
Initial Footcandles

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



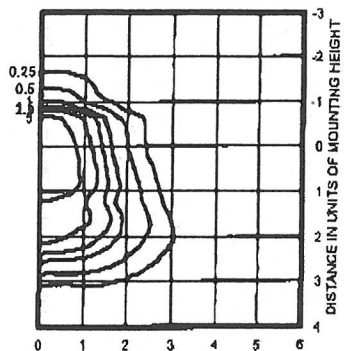
400W pulse start metal halide lamp, rated 38000 lumens. Footcandle values based on 20' mounting height.
Classification: Type II, Short, Full Cutoff

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



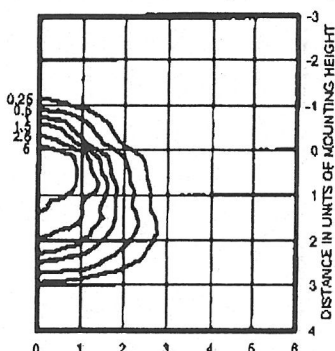
400W pulse start metal halide lamp, rated 38,000 lumens. Footcandle values based on 20' mounting height.
Classification: Type II, Short, Full Cutoff

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



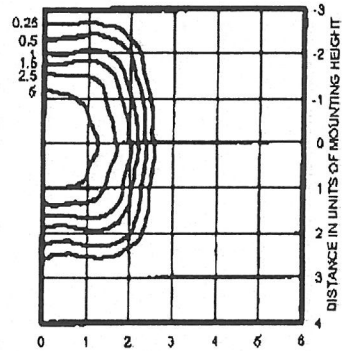
400W pulse start metal halide lamp, rated 38,000 lumens. Footcandle values based on 20' mounting height.
Classification: Unclassified (Type III, Very Short), Full Cutoff

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

KAD 400M R55 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

Notes

- 1 Photometric data for other distributions can be accessed at www.lithonia.com.
- 2 Tested to current IES and NFPA 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.
- 3 For electrical characteristics, consult outdoor technical data specification sheets on www.lithonia.com.

Mounting Height Correction Factor

(Multiply the fc level by the correction factor)

25 ft. - 0.64

35 ft. - 0.22

40 ft. - 0.25

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



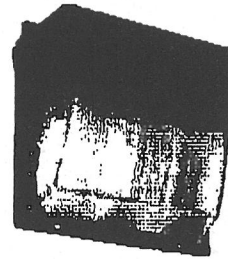
KAD-M-S



FEATURES & SPECIFICATIONS

INTENDED USE — Outdoor storage areas, warehouse and factory perimeters and loading docks.
CONSTRUCTION — Rugged, corrosion-resistant, die-cast aluminum. Corrosion-resistant external hardware includes slotted hex-head fasteners.
 Finish: Standard finish is electrostatically-applied, oven-cured, dark bronze (DDB) corrosion-resistant polyester powder paint.
OPTICS — Reflector is specular anodized aluminum. Refractor is prismatic borosilicate glass which is sealed and gasketed to inhibit the entrance of outside contaminants.
ELECTRICAL — Electrical components are mounted in hinged front cover that includes primary and secondary electrical disconnect.
Ballast: Low pressure sodium: High reactance, high power factor. 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, single-ended bayonet base socket for 35W low pressure sodium; medium base socket for 70-150W; and mogul base socket for 175W and above, with copper alloy, nickel-plated screw shell and center contact. UL listed 1500W, 600V.
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. Feed-thru wiring can be achieved by using a conduit tee. Mount on any vertical surface. Not recommended in applications where a sprayed stream of water can come in direct contact with glass lens.
LISTINGS — UL Listed (standard). CSA or NOM Certified (see Options). UL listed for 25°C ambient and suitable for wet locations. IP65 rated (250 watt and below) or IP54 rated (400 watt) in accordance with IEC Standard 529. Note: Specifications subject to change without notice.

Catalog Number
Notes
Type



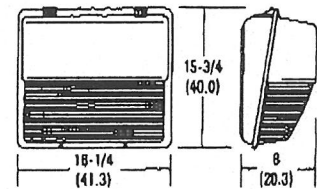
Wall Packs

TWH

METAL HALIDE: 70W - 400W
 HIGH PRESSURE SODIUM: 70W - 400W
 LOW PRESSURE SODIUM: 35W
 8" to 25" Mounting

Specifications

Height: 15-3/4 (40.0)
 Width: 16-1/4 (41.3)
 Depth: 8 (20.3)
 *Weight: 29.95 (13.59kg)
 All dimensions are inches (centimeters) unless otherwise indicated.
 *Weight as configured in example below.



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

Example: TWH 100M TB LPI

Series	Wattage	Voltage	Ballast	Options	Finish ¹⁵	Lamp ¹⁷	
TWH	Low pressure sodium¹	Metal halide	120	(blank) Magnetic ballast	Shipped installed in fixture SF Single fuse (120, 277, 347V) DF Double fuse (208, 240, 480V) EC Emergency circuit ¹¹ QRS Quartz restrrike ¹¹ QRSTD Quartz restrrike system with time delay ^{11,11} PE Photoelectric cell - button type ¹ PER NEMA twist-lock receptacle ¹¹ FS Full shield TP Tamper proof screws CSA Listed and labeled to comply with Canadian Standards NOM NOM Certified ¹⁹ INTL Available for MH probe start shipping outside the U.S. REGC1 California Title 20 effective 1/1/2010 Shipped separately¹³ PE1 NEMA twist-lock PE (120V/208V/240V) PE3 NEMA twist-lock PE (347V) PE4 NEMA twist-lock PE (480V) PE7 NEMA twist-lock PE (277V) SC Shooting cap for PER option VG Vandal guard ¹⁴ WG Wire guard ¹¹	(blank) Dark bronze	LPI Lamp included
		70M ^{2,3}					
	35L 100M ⁴	240 ⁴	Pulse Start	DBL Black		L/LP Less lamp	
	High pressure sodium¹	277		SCWA Super CWA pulse start ballast		DMB Medium bronze	
	70S 175M ⁴	347	Note: For shipments to U.S. territories, SCWA must be specified to comply with EISA.	DWH White			
	100S 250M ⁴	480 ⁴		CR Enhanced corrosion resistant			
	150S ² 320M ⁴	2305HZ ¹⁰		TB ⁹		CRT Non-slick protective coating ¹⁴	
	200S 350M ^{4,7}						
	250S 400M ^{4,7}						
	400S						
		Ceramic metal halide					
		70MHC ^{1,3}					
	100MHC ¹						
	150MHC						

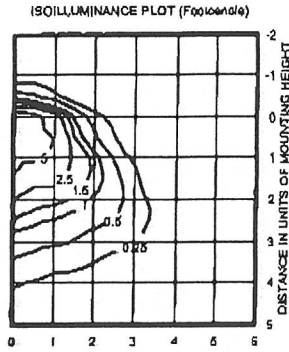
- Notes
- Not available with SCWA.
 - Operates 55V lamp.
 - Not available with 480V.
 - These wattages do not comply with California Title 20 regulations.
 - Must be ordered with SCWA.
 - These wattages require the REGC1 option to be chosen for shipments into California for Title 20 compliance. 250M REGC1 is not available in 347 or 480V.
 - Requires T-15, ED or BT28 reduced jacket lamp.
 - Must specify CWI for use in Canada.

- Optional multi-tap ballast (120, 208, 240, 277V); in Canada (120, 277, 347V).
- Consult factory for available wattages.
- Max allowable wattage lamp included.
- Photo cell not included.
- May be ordered as an accessory.
- Prefer with TWH when ordered as an accessory. Requires field modification.
- See www.lithonia.com/arch colors for additional color options.
- Black finish only.
- Must be specified. L/LP N/A MHC.

TWH Metal Halide Wall-Packs

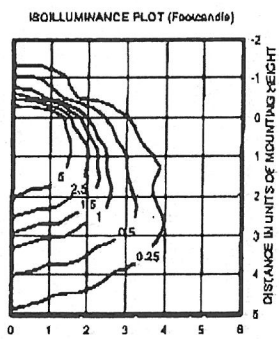
Coefficient of Utilization _____
 Initial Footcandles _____

TWH 175M Test report no. 9412101P



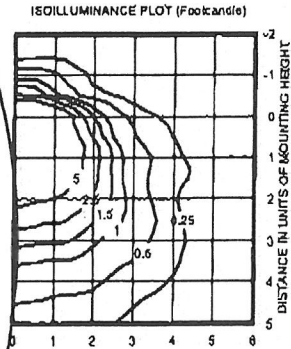
176W pulse start metal halide lamp, horizontal lamp orientation
 Footcandle values based on 12' mounting height, 12800 rated lumens.
 Luminaire Efficiency: 61%

TWH 250M Test report no. 95011902P



250W pulse start metal halide lamp, horizontal lamp orientation
 Footcandle values based on 12' mounting height, 25000 rated lumens.
 Luminaire Efficiency: 77%

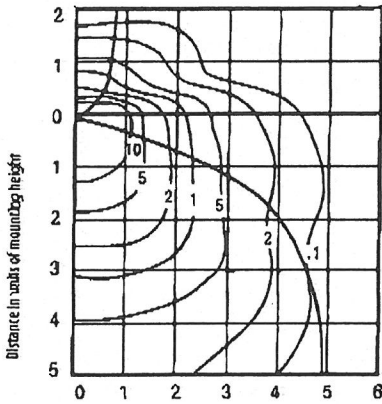
TWH 400M Test report no. 94112102P



400W pulse start metal halide lamp, horizontal lamp orientation
 Footcandle values based on 12' mounting height, 38000 rated lumens.
 Luminaire Efficiency: 70%

TWH 250S Test report no. 94121002

Coefficients of utilization

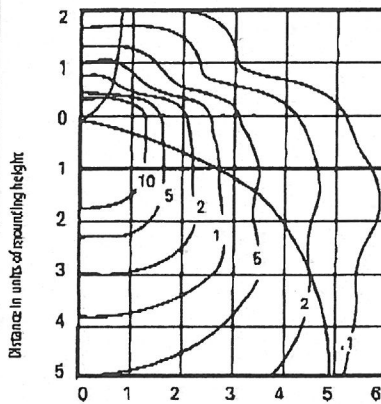


Distance in units of mounting height

250W, high pressure sodium lamp, horizontal lamp orientation, 12' mounting height, 27,500 rated lumens.
 Total fixture efficiency: 70.9%

TWH 400S Test report no. 94121001

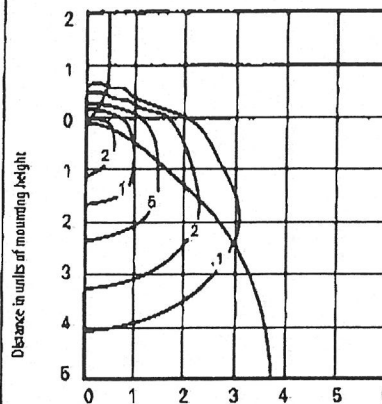
Coefficients of utilization



Distance in units of mounting height

400W, high pressure sodium lamp, horizontal lamp orientation, 12' mounting height, 50,000 rated lumens.
 Total fixture efficiency: 70.9%

TWH 35L Test report no. 94121902



Distance in units of mounting height

35W, low pressure sodium lamp, horizontal lamp orientation, 12' mounting height, 4,800 rated lumens.
 Total fixture efficiency: 54.6%

Notes
 1 Photometric data for other distributions can be accessed from the Lithonia Lighting Web site. (www.lithonia.com)

Mounting Height Correction Factor
 (Multiply the fc level by the correction factor)
 15 ft. = .64
 20 ft. = .36
 25 ft. = .23

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

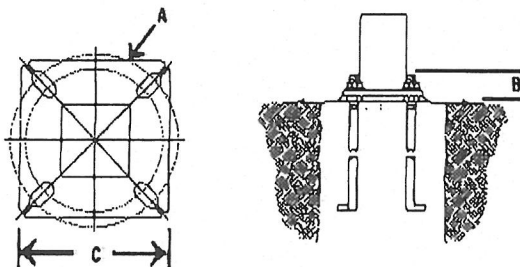


TWH-M-S-L

SSS Square Straight Steel Poles

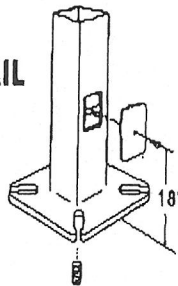
TECHNICAL INFORMATION

Catalog Number	Nominal shaft length (feet)	Pole Shaft Size (in x in x ft)	Wall Thickness (inches)	Gauge	EPA (ft ²) with 1.3 gust					Bolt Circle (inches)	Bolt Size (in. x in. x in.)	Approximate ship weight (pounds)	
					80 mph	Max. weight	90 mph	Max. weight	100 mph				Max. weight
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	9.8	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	287	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



Shaft Base Size	Bolt Circle A	Bolt Projection B	Base Square C	Anchor Bolt Description	Warehouse Anchor Description	Template Bolt 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

BASE DETAIL



IMPORTANT INSTALLATION NOTES:

- Do not erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia will not accept claim for incorrect anchor placement due to failure to use factory template.
- If poles are stored outside, all protective wrapping must be removed immediately to prevent finish damage.
- Lithonia is not responsible for the foundation design.
- Installation requires grout to be packed under base to ensure full contact with foundation.

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.



An Acuity Brands Company

Sheet #: Pole-SSS

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Lithonia Lighting

Outdoor

One Lithonia Way, Conyers, GA 30012

Phone: 770-922-9000 Fax: 770-918-1209

www.lithonia.com



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 (DOB) polyester powder finish, with other architectural colors available.

OPTICS — Anodized, aluminum reflectors: IES full cutoff distributions R2 (asymmetric), R3 (asymmetric), R4 (forward throw) and R55 (square) are interchangeable. High-performance anodized, segmented aluminum reflectors (IES full cutoff distributions SR2 (asymmetric), SR3 (asymmetric) and SR4SC (forward throw, sharp cutoff). High-performance reflectors attach with tool-less fasteners and are rotatable and interchangeable.

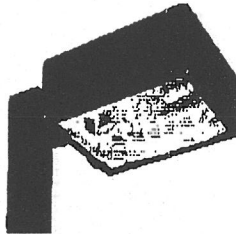
ELECTRICAL — Ballast: High pressure sodium: 70-150W is high reactance, high power factor. Constant wattage autotransformer for 200-400W. Metal halide: 70-150W is high reactance, high power factor and is standard with pulse-start ignitor technology. "SCWA" not required. Constant wattage autotransformer 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 70-150W. Mogul base socket for 175W and above, and 70-400S, 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 25°C ambient and wet locations. IP65 rated in accordance with standard IEC 529.

Specifications subject to change without notice.

Catalog Number
Notes
Type



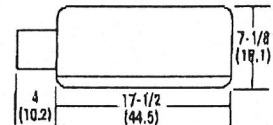
CONTOUR
SERIES

Soft Square Lighting

KAD

Specifications
EPA: 1.2 ft.²
*Weight: 35.9 lbs (16.28 kg)
Length: 17-1/2 (44.5)
Width: 17-1/2" (44.5)
Depth: 7-1/8 (18.1)
All dimensions are inches (centimeters) unless otherwise specified.
*Weight as configured in example below.

METAL HALIDE: 70-400W
HIGH PRESSURE SODIUM: 70-400W
20" TO 35" MOUNTING



ORDERING INFORMATION For shortest lead times, configure product using **bolded options**.

Example: KAD 400M R3 TB SCWA SPD04 LPI

Series	Wattage	Distribution	Voltage	Ballast	Mounting ¹⁴																																																					
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- Notes**
- Not available with SCWA.
 - Not available with 480V.
 - 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. 250M REGC1 is not available in 347 or 480V.
 - Reduced jacket EDRB required for SR2, SR3 and SR4SC optics.
 - Houseside shield available.
 - High performance reflectors not available with QRSTD.
 - Must specify CWI for use in Canada.
 - Optional multi-tap ballast (120, 208, 240, 277V; In Canada: 120, 247, 347V).
 - Consult factory for available wattages.
 - 9" arm is required when two or more luminaires are oriented on a 90° drilling pattern.
 - May be ordered as an accessory.
 - Must specify finish when ordered as an accessory.
 - Available with SPD04 and SPD09.
 - Must specify voltage. N/A with TB.
 - Only available with SR2, SR3 and SR4SC optics.
 - Max allowable wattage lamp included.
 - Prefix with KAD when ordered as an accessory.
 - See www.lithonia.com/architect for additional color options.
 - Must be specified. L/LP not available with MH.
 - Must use APD09.

Accessories: Tenon Mounting Silphiter (RPxx required.)
Order as separate catalog number. Must be used with pole mounting.

		Number of fixtures				
Tenon O.D.	One	Two@180°	Two@90°	Three@120°	Four@90°	
2-3/8"	T20-190	T20-280	T20-290 ²²	T20-320 ²²	T20-390 ²²	T20-490 ²²
2-7/8"	T25-190	T25-280	T25-290 ²²	T25-320	T25-390 ¹¹	T25-490 ¹¹
4"	T35-190	T35-280	T35-290 ²²	T35-320	T35-390 ²²	T35-490 ²²

OUTDOOR

KAD-M-S