

**Madison Plan Commission**

September 21, 2005

City of Madison
 Department of Planning & Development
 Madison Municipal Building, Room LL 100
 215 Martin Luther King, Jr. Blvd.
 Madison, WI 53701

Re Letter of Intent
Plan Commission Approval - November 7, 2005
 George Vitense Golfland
 New Clubhouse and Indoor Mini-golf/Practice Facility
 5501 West Beltline Highway
 Madison, WI 53711
 Engberg Anderson Project No. 051532

PROJECT NARRATIVE

George Vitense Golfland is planning a new clubhouse and indoor mini-golf/practice facility to be located on their existing property. The new facility will replace the existing building and will consist of approximately 19,960 Gross Square Feet (GSF) - total. The new building is comprised of an 8,500 GSF indoor mini-golf/practice facility located at grade and a 8,360 GSF clubhouse located at or above grade over a 3,100 GSF basement with an exposed end for vehicle access. The proposed building location is at the confluence of the extended facilities activity area that is at the top of the hill and situated between the existing, elevated tee boxes to the South, chipping green to the West, mini golf to the North and parking lot to the East. The existing clubhouse facility will be demolished.

The existing parking lot will remain. The lot will be reconfigured to include 10 new tree islands to replace the existing 4 islands. The reconfiguration will also provide and increase of 8 parking stalls; from 179 to 187 stalls. The addition of "new" stalls at the location of the existing building requires the addition of an oil, grease and sediment filter to the existing catch basin structure.

The existing facility is a conditional use on a large site that has both conservancy and commercial zoning. The proposed project is a major modification to the existing conditional use. The existing restaurant and market buildings located on the site are not modified or altered as part of this proposal and application.

The following information is intended to address the Madison Plan Commission General Requirements:

Project Name	George Vitense Golfland New Clubhouse and Indoor Mini-golf/Practice Facility
Proposed Schedule	The proposed building schedule is for six (6) months of construction. The desired start date is the second week of November, 2005 with

1 North Pinckney Street

Madison, Wisconsin 53703

www.eadp.com

Ph 608 250 0100 Fx 608 250 0200

completion anticipated by the end of Spring 2006 or roughly June 1, 2006.

Existing Conditions The existing facility is a recreational destination providing a variety of outdoor activities including; a major driving range and instructional facility, a par 3 golf course, two 18 hole mini-golf courses, batting cages, a climbing wall, Hi-ball (a trampoline game) and water wars. The existing structures include; a small clubhouse of approximately 3,500 gross square feet that houses the operations for the golf facility including the service, office and a small retail area, a section of tee boxes with cover for use during inclement weather, several outbuildings located on the range for storage of equipment and two open air gazebos.

There are two additional buildings on the site that are leased. These include the Copper Top Restaurant and El Mercadito Market. Their use and facilities remain unchanged in this proposal/submittal

An asphalt parking lot and drive connects the main buildings of the three primary users and includes access off Schroeder Road and an access easement off of Whitey Way.

Project Team

Owner:	George Vitense Golfland - Joel Weitz
Contractor	Design Structures - Jim Anderson & Tom Sanford
Architect	Engberg Anderson Design Partnership - Paul Cuta
Landscape Architect	Ken Saiki Design - Bruce Woods
Civil Eng.	Jenkins Survey & Design - Hans Justeson
Struct. Eng.	Graef Anhalt Schloemer - Kevin McGinnity
Surveyor	Williamson Survey - Ron Williamson

Uses & Areas

George Vitense Golfland	Assembly (Recreation)	9,211	GSF
	Assembly (Dining)	720	GSF
	Assembly (Comm. Rms.)	648	GSF
	Merchantile (Pro Shop, etc.)	1,350	GSF
	Office	1,055	GSF
	Storage	2,374	GSF
	Total Area	19,960	GSF
<i>Copper Top *</i>	<i>Restaurant</i>	<i>2,511</i>	<i>GSF (total)</i>
<i>El Mercadito *</i>	<i>Merchantile (Grocery)</i>	<i>3,542</i>	<i>GSF (total)</i>

Capacity

George Vitense Golfland	342	occupants
<i>Copper Top *</i>	80	occupants
<i>El Mercadito *</i>	90	occupants

Parking Stalls	Upper Lot	187
	Lower Lot	22

See attached worksheet for parking lot calculations.

There are three (3) accessible spaces adjacent the new clubhouse building and two (2) accessible stalls at each of the two buildings that remain for seven (7) total spaces.

Loading Spaces	George Vitense Golfland	1
	Copper Top *	1
	El Mercadito *	1

Hours of Operation	George Vitense Golfland	varies , peak season is 7:30 am – 11 pm
	Copper Top *	6 am – 9 pm, Sun. 6 am – 8 pm
	El Mercadito *	9 am – 9 pm

Site Area 31 Acres

Trash Removal Trash removal is by contract with weekly pick-up and on-call as needed.
Storage is in dumpsters located in a screened enclosure.

Snow Removal Snow removal is contracted for the parking areas and public sidewalks.

** These facilities and uses are not changed from exiting conditions in this proposal/submittal. Only the clubhouse, indoor mini golf and modified existing parking lot are revisions to the existing conditions.*

PMC/pmc



George Vitense Golfland

EADP # 051532.00

9/21/2005

Parking Lot Calculations

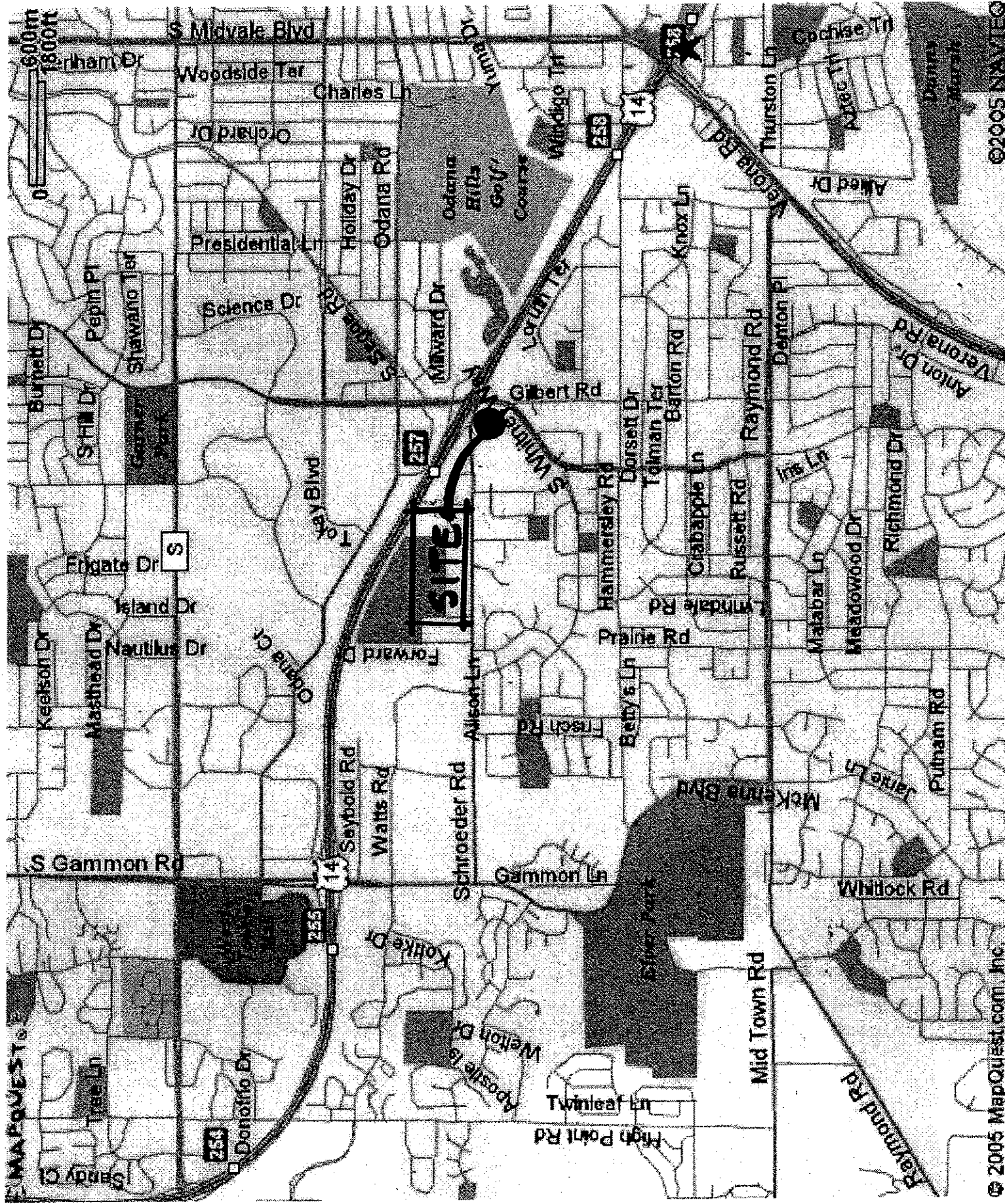
Location/Use	Factor	Area or Occupancy	Required Parking
A. Copper Kettle	30% of occup.	80	24.0
B. Ethnic Grocery	1/ 300 GSF	3,542	11.8
C. Existing Golfland			
Ext. Mini-Golf	10% of occup.	288	28.8
Driving Range	10% of occup.	80	8.0
Par 3 Course (1.5 fac)	10% of occup.	110	11.0
Batting Cages	10% of occup.	10	1.0
Water Wars	10% of occup.	6	0.6
Climbing Wall	10% of occup.	6	0.6
Hi-Ball	10% of occup.	6	0.6
		Sub Total	86.4
D. New Facility			
Dining	30% of occup.	48	14.4
Community Rooms	30% of occup.	43	12.9
Office	1/ 300 GSF	1,055	3.5
Retail	1/ 300 GSF	1,350	4.5
Interior Mini-Golf	10% of occup.	144	14.4
Arcade	10% of occup.	13	1.3
E. Total			137.4
F. Accessible Parking Stalls	(1 Van Accessible)		5.0

G. Existing Parking

Upper Lot	179.0
Lower Lot	22.0
Total	201.0

H. Proposed Parking

Upper Lot	187.0	
Lower Lot	22.0	
Total	209.0	
Accessible Parking Stalls	(1 Van Accessible)	7.0





Existing Vitense Building to be Demolished



Existing Vitense Building to be Demolished

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. Extruded 4" soft corner arm for pole or wall mounting is standard. 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). 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 — High reactance, high power factor ballast for 100W/150W. Constant-wattage autotransformer for 175-400W. Super CWA Pulse Start ballast required for 200W, 320W and 350W (must order SCWA option). Ballast is copper-wound and 100% factory-tested. Porcelain, horizontal, position-oriented, socket with copper alloy, nickel-plated screw shell and center contact. Medium-base socket used with 100W & 150W, mogul-base socket used with 175-400W. UL listed 1500W-600V.

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

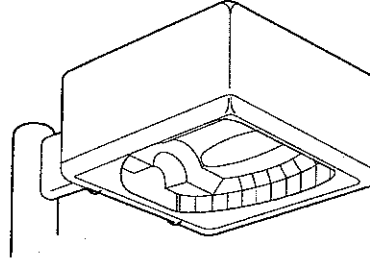
Catalog Number	
Notes	Type

Soft Square Cutoff Lighting

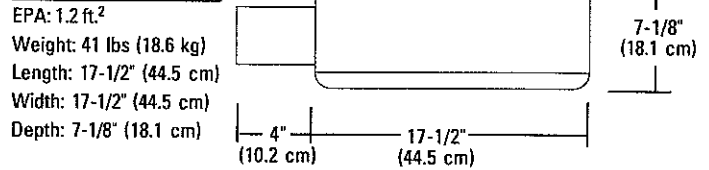
KAD

METAL HALIDE
100W, 150W, 175W, 200W,
250W, 320W, 350W, 400W
20' to 35' Mounting

CONTOUR
SERIES



Standard Dimensions



ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog number.

Example: **KAD 400M R2 120 SPD04 LPI**

Series	Voltage	Mounting	Options	
KAD 100M	120	SPD04 Square pole (4" arm) (standard)	Shipped Installed In Fixture	Architectural Colors⁹
KAD 150M	208 ³	SPD09 Square pole (9" arm) ⁵	SF Single fuse (120, 277, 347V, n/a TB)	Standard Colors
KAD 175M	240 ³	RPD04 Round pole (4" arm)	DF Double fuse (208, 240, 480V, n/a TB)	DDB Dark bronze (standard)
KAD 200M	277	RPD09 Round pole (9" arm) ⁵	PER NEMA twist-lock receptacle only (no photocontrol)	DWH White
KAD 250M	347	RPD09 Round pole (9" arm) ⁵	LPI Lamp included as standard	DBL Black
KAD 320M ¹	480 ³	WWD04 Wood pole or wall (4" arm)	L/LP Less lamp	Classic Colors
KAD 350M ¹	480 ³	WWD09 Wood pole or wall (9" arm) ^{5,6}	PD Power Tray ¹⁰	DMB Medium bronze
KAD 400M ¹	480 ³	WBDO4 Wall bracket (4" arm) ⁶	WTB Terminal Wiring Block ¹⁰	DNA Natural aluminum
		WBDO9 Wall bracket (9" arm) ⁶	QRS Quartz restrike system (250W maximum, lamp not included) ⁷	DSS Sandstone
		L/Arm (When ordering KMA, DAD12)	CSA CSA Certified	DGC Charcoal gray
		Shipped Separately	SCWA Super CWA Pulse Start Ballast (n/a 100W & 175W)	DTG Tennis green
		KMA Mast arm adapter	Shipped Separately⁶	DBR Bright red
		KTMB Twin mounting bar	PE1 NEMA twist-lock PE (120, 208, 240V)	DSB Steel blue
		DAD12P Degree Arm (pole)	PE3 NEMA twist-lock PE (347V)	
		DAD12WB Degree Arm (wall)	PE4 NEMA twist-lock PE (480V)	
			PE7 NEMA twist-lock PE (277V)	
			HS House-side shield (R2, R3, R4) (SR2, SR3)	
			KADVG Vandal guard	
			KADWG Wire guard	

NOTES:

- 1 Reduced jacket ED28 lamp must be used with SR2, SR3 & SR4SC optics.
- 2 House-side shield available.
- 3 Consult factory for availability in Canada.
- 4 Optional multi-tap ballast (120, 208, 240, 277V).
- 5 The SPD09, RPD09 or WWDO9 must be used when two or more luminaires are oriented on a 90° drilling pattern.
- 6 May be ordered as accessory.
- 7 QRSTD available in select wattages; consult factory.
- 8 Additional architectural colors available; please see Architectural Colors brochure, form no. 794.3.
- 9 Must use RPD09.
- 10 Only available with SR2, SR3, and SR4SC optics.

Accessories: Tenon Mounting Slipfitter

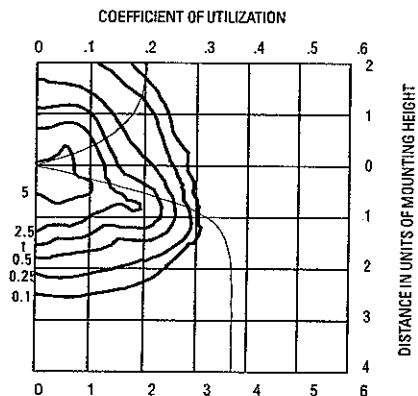
Order as separate catalog number.

Tenon O.D.	Number of fixtures					
	One	Two@180°	Two@90°	Three@120°	Three@90°	Four@90°
2-3/8"	T20-190	T20-280	T20-290 ⁹	T20-320 ⁹	T20-390 ⁹	T20-490 ⁹
2-7/8"	T25-190	T25-280	T25-290 ⁹	T25-320	T25-390 ⁹	T25-490 ⁹
4"	T35-190	T35-280	T35-290 ⁹	T35-320	T35-390 ⁹	T35-490 ⁹

KAD 400M Arm-mounted Soft Square Cutoff

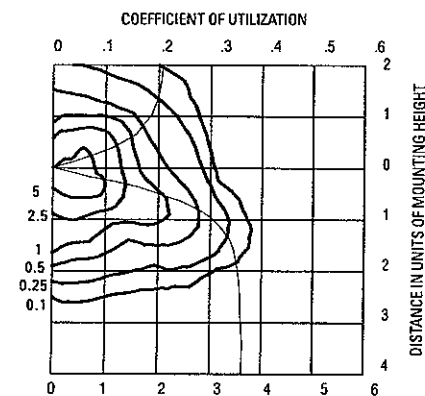
Coefficient of Utilization _____
Initial Footcandles _____

KAD R2 Test no. 1193083101



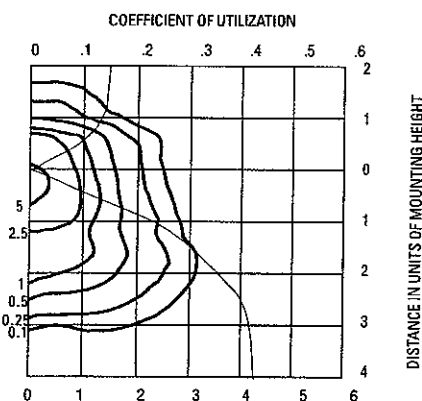
400W Metal Halide lamp, 32,000 rated lumens, Footcandle values based on 30' mounting height, Distribution Type II, cutoff.

KAD R3 Test no. 1192040902



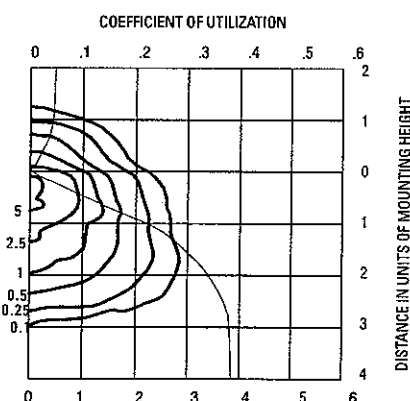
400W Metal Halide lamp, 32,000 rated lumens, Footcandle values based on 30' mounting height, Distribution Type III, cutoff.

KAD R4 Test no. 1191110101



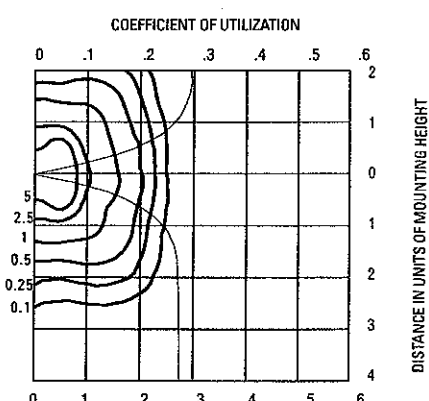
400W Metal Halide lamp, 32,000 rated lumens, Footcandle values based on 30' mounting height, Distribution Type IV, cutoff.

KAD R4HS Test no. 1192061101



400W Metal Halide lamp, 32,000 rated lumens, Footcandle values based on 30' mounting height, Distribution Type IV, cutoff.

KAD R5S Test no. 1193111901



400W Metal Halide lamp, 32,000 rated lumens, Footcandle values based on 30' mounting height, Distribution Type V, cutoff.

Electrical Characteristics

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

Mounting Height Correction Factor

(Multiply the fc level by the correction factor)

25 ft. = 1.44

35 ft. = 0.73

40 ft. = .56

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

Notes:

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



Lithonia Lighting

Acuity Lighting Group, Inc.

Outdoor

One Lithonia Way, Conyers, GA 30012

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

In Canada: 160 avenue Labrosse, Pointe-Claire, P.Q., H9R 1A1

www.lithonia.com



FEATURES & SPECIFICATIONS

INTENDED USE

Recessed frame-in rated Non-IC. Approved for all ceiling and wiring types. New construction or remodel applications.

CONSTRUCTION

Galvanized steel frame.

Cutout section on frame for remodel applications.

Galvanized bar hangers span up to 24" o.c. and feature built-in nailer and T-bar clips.

Galvanized steel junction box with removable access door, (4) built-in romex clamps; (2) 3/4" and (4) 1/2" knockouts with slots for pryout.

Maximum 8 (4in, 4out) No 12 AWG conductors. Rated for 90° C.

Ground wire provided. Rated for through branch wiring.

ELECTRICAL SYSTEM

Metal Halide frame-ins have safety sockets standard and accept only safety lamps. For CMH PAR lamps, ENCL must be specified.

Thermal protection provided against improper insulation use.

Encased and potted ballast for 120, 277 or 347 volt is standard. 50H and 50M available core-and-coil ballast only.

INSTALLATION

2 x 8 wood joist or T-bar installation.

Expandable bar hangers allow for off-center mounting in wood joist or T-bar ceilings.

Length of 25-1/4" maximum 13-1/4" minimum or cut to fit 10-1/2" on center joist construction.

Retaining clips hold finishing trim secure and snug to ceiling.

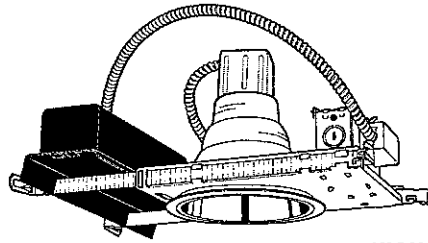
Maximum ceiling thickness determined by finishing trim. See specific trim page.

LISTING

U.L. Listed. CSA Certified (see Options).

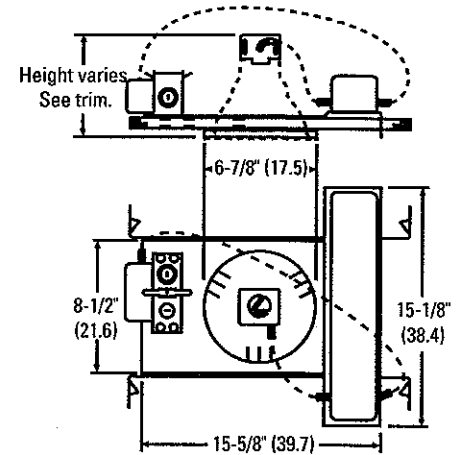
Damp location listing. (See trim selection for wet location listing.)

Catalog Number	
Notes	Type



6" Frame-in
LP6H

HIGH INTENSITY DISCHARGE
Non-IC
New or Remodel Construction



Specifications

Height: 3-1/2 (8.9)

Trim height varies

Length: 15-5/8 (39.7)

Width: 15-1/8 (38.4)

Ceiling Height: 7 (17.8)

All dimensions are inches (centimeters).

ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog number.

Example: LP6H 50M 602 120/277

LP6H

Series	Lamp	Reflector	Voltage	Options
LP6H	Metal Halide Lamp¹	602 White Open w/Splay	120/277	HEB Electronic ballast.
	50M 50W MP50/C/U	602A Clear Specular Open w/Splay	120	ENCL Standard medium base socket. For use when LP6H 50, 70 and 100 metal halide frame-in used with enclosed trims or when used with PAR 38 metal halide or CMH lamps.
	70M 70W MP70/C/U	602SA Clear Diffuse Open w/Splay	277	SF Single fuse (Must specify voltage).
	100M 100W MP100/C/U	602G Gold Specular Open w/Splay	347²	LRC Provides compatibility with Lithonia Reloc System.
	High Pressure Sodium²	602SG Gold Diffuse Open w/Splay		WLP Lamp (shipped separately).
	35S 35W LU35M/C	603 White Open		TRW White flange.
	50S 50W LU50M/C	603G Gold Specular Open		
	70S 75W LU70M/C	608AZ Clear Specular Open		
	100S 100W LU100M/C	608A Clear Diffuse Open		
		6C3BL Black Specular Cone		
		6M1A Clear Specular Multiplier		
		6B3 Black Baffle		
		6B3W White Baffle		
		6S01 White Open Slope		
		6SB1 Black Baffle Slope		
		6SB1W White Baffle Slope		
		6SB1C Clear Baffle Slope		
		6AB2 Black Baffle Adjustable		
		6AB2W White Baffle Adjustable		
		6AC2A Clear Specular Adjustable		
		6AC2BL Black Specular Adjustable		
		6AC2G Gold Specular Adjustable		
		6LD3 White Splay, Drop Opal Lens		
		6LDB3 Black Baffle, Drop Opal Lens		
		6LF3 White Splay, White Glass Lens		
		6LFB3 Black Baffle, White Glass Lens		
		6L4 White Splay, Flat Fresnel Lens		
		6LB4 Black Baffle, Flat Fresnel Lens		

Accessories:

Order as separate catalog number.

CTE Ceiling trim extender

LBH 22" extended bar hangers, set of two

LCMB Channel bar mounting brackets

LSMC T-bar mounting clips, set of four

SCA6 Sloped Ceiling Adaptor. Degree of slope must be specified (10D, 15D, 20D, 25D, 30D). Ex: SCA610D

NOTES:

1 Ceramic Metal Halide (CMH) lamps must use ENCL option.

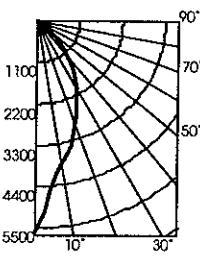
2 Not available with HEB.

See reflector specification sheets for maximum wattages.

6" HID LP6H Photometrics

Distribution curve Distribution data Output data Coefficient of utilization Single luminaire data 30" above floor

602A, (1) 100W metal halide lamp, .62 s/mh, 7900 rated lumens, Test no. LTL9688



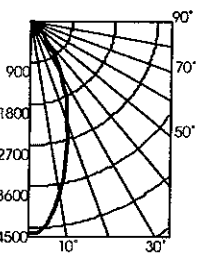
cp	Lumens	Zone	Lumens	% Lamp
0	5559			
5	4491	0° - 30°	2486.0	31.5
15	3404	0° - 40°	3490.8	44.2
25	2468	0° - 60°	4334.4	54.9
35	1626	0° - 90°	4343.3	55.0
45	807	90° - 180°	0.0	0.0
55	227	0° - 180°	4343.3	*55.0
65	4			
75	2			
85	1			
90	0			

pf	20%					
	pc	80%	70%	50%		
pw	50%	30%	50%	30%		
	0	65	65	64	61	61
1	60	59	59	58	57	56
2	56	53	55	53	53	51
3	51	48	51	48	49	47
4	47	44	47	44	46	43
5	44	40	43	40	42	39
6	41	37	40	37	39	36
7	38	34	38	34	37	34
8	35	32	35	32	35	31
9	33	30	33	30	32	29
10	31	28	31	28	31	27

Task Height: 2.5ft.

Mounting Height	Initial FC Center		50% beam - 34.5'		10% beam - 79.1'	
	Beam	Diameter	FC	Diameter	FC	Diameter
8.0	183.8	3.4	91.9	9.1	18.4	
10.0	98.8	4.7	49.4	12.4	9.9	
12.0	61.6	5.9	30.8	15.7	6.2	
14.0	42.0	7.1	21.0	19.0	4.2	
16.0	30.5	8.4	15.2	22.3	3.1	

6B3 (1) 100W metal halide lamp, .64 s/mh, 7900 rated lumens, Test no. LTL9689



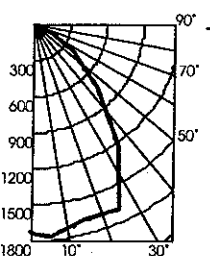
cp	Lumens	Zone	Lumens	% Lamp
0	4592			
5	4433	0° - 30°	2075.2	26.3
15	3085	0° - 40°	2619.0	33.2
25	1815	0° - 60°	2858.7	36.2
35	862	0° - 90°	2867.5	36.3
45	256	90° - 180°	0.0	0.0
55	26	0° - 180°	2867.5	*36.3
65	7			
75	2			
85	0			
90	0			

pf	20%					
	pc	80%	70%	50%		
pw	50%	30%	50%	30%		
	0	43	43	42	42	40
1	40	39	40	39	38	37
2	38	36	37	36	36	35
3	35	33	35	33	34	32
4	33	31	32	31	32	30
5	31	29	31	29	30	28
6	29	27	29	27	28	27
7	27	25	27	25	27	25
8	26	24	26	24	25	24
9	25	23	24	22	24	22
10	23	21	23	21	23	21

Task Height: 2.5ft.

Mounting Height	Initial FC Center		50% beam - 35.3'		10% beam - 70.5'	
	Beam	Diameter	FC	Diameter	FC	Diameter
8.0	151.8	3.5	75.9	7.8	15.2	
10.0	81.6	4.8	40.8	10.6	8.2	
12.0	50.9	6.1	25.4	13.4	5.1	
14.0	34.7	7.3	17.4	16.3	3.5	
16.0	25.2	8.6	12.6	19.1	2.5	

6L4, (1) 100W metal halide lamp, 1.2 s/mh, 8000 rated lumens, Test no. 2195020589



cp	Lumens	Zone	Lumens	% Lamp
0	1735			
5	1771	0° - 30°	1429.1	17.9
15	1683	0° - 40°	2204.3	27.6
25	1694	0° - 60°	3137.3	39.2
35	1234	0° - 90°	3390.7	42.4
45	746	90° - 180°	0.0	0.0
55	396	0° - 180°	3390.7	*42.4
65	171			
75	62			
85	15			
90	0			

pf	20%					
	pc	80%	70%	50%		
pw	50%	30%	50%	30%		
	0	50	50	49	49	47
1	46	44	45	43	43	42
2	41	39	40	38	39	37
3	37	34	36	34	35	33
4	34	30	33	30	32	30
5	31	27	30	27	29	27
6	28	25	28	24	27	24
7	26	22	25	22	25	22
8	24	20	23	20	23	20
9	22	19	22	19	21	18
10	20	17	20	17	20	17

Task Height: 2.5ft.

Mounting Height	Initial FC Center		50% beam - 62.9'		10% beam - 97.8'	
	Beam	Diameter	FC	Diameter	FC	Diameter
8.0	57.4	6.7	28.7	12.6	5.7	
10.0	30.8	9.2	15.4	17.2	3.1	
12.0	19.2	11.6	9.6	21.8	1.9	
14.0	13.1	14.1	6.6	26.3	1.3	
16.0	9.5	16.5	4.8	30.9	1.0	



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 Recessed Downlighting
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 In Canada: 160 avenue Labrosse, Pointe-Claire, P.Q. H9R 1A1
 www.lithonia.com

FEATURES & SPECIFICATIONS

CONSTRUCTION

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". 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.

GROUNDING — A nut holder located immediately inside the handhole rim is provided with a 1/2" - 13 UNC ground bolt and nut.

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.

Catalog Number	
Notes	Type



Anchor Base Poles

SSS

SQUARE STRAIGHT STEEL

ORDERING INFORMATION

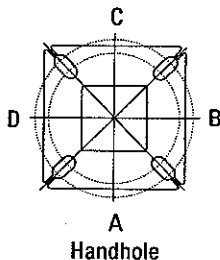
Choose the boldface catalog nomenclature that best suits your needs and write it in the appropriate blank.

Example: **SSS 20 5C DM19 DDB**

SSS		
Shaft type SSS	Nominal shaft length 10 - 39 feet (See back page.)	Nominal shaft base size/wall thickness (See back page.)

Mounting ¹		Options	
Tenon Mounting	Shipped Installed	L/AB Less Anchor Bolts	Architectural Colors (powder finish) ⁷
PT Open top	VD Vibration Damper	TP Tamper Proof	Standard Colors
T20 2-3/8" O.D. (2" NPS)	Hxx^{4,5} Horizontal Arm Bracket (1 fixture)	FDLxx⁴ Festoon Outletless electrical	DDB Dark bronze
T25 2-7/8" O.D. (2-1/2" NPS)	FGLxx⁴ Festoon GFI Outlet less electrical	12CPxx⁴ 1/2" Coupling	DWH White
T30² 3-1/2" O.D. (3" NPS)	34CPxx⁴ 3/4" Coupling	1CPxx⁴ 1" Coupling	DBL Black
T35² 4" O.D. (3-1/2" NPS)	12NPxx⁴ 1/2" Threaded Nipple	34NPxx⁴ 3/4" Threaded Nipple	Classic Colors
Drill Mounting³	1NPxx⁴ 1" Threaded Nipple	HHxx^{4,5} Extra Handhole	DMB Medium bronze
DM19 1 at 90°	Aeris Drill Mounting³		DNA Natural aluminum
DM28 2 at 180°	DM19AS 1 at 90°		DSS Sandstone
DM28PL 2 at 180° with one side plugged	DM28AS 2 at 180°		DGC Charcoal gray
DM29 2 at 90°	DM29AS 2 at 90°		DTG Tennis green
DM39 3 at 90°	DM39AS 3 at 90°		DBR Bright red
DM49 4 at 90°	DM49AS 4 at 90°		DSB Steel blue
			GALV Galvanized finish

HANDHOLE ORIENTATION



NOTES:

- When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination requires an extra handhole.
- 3-1/2" and 4" tenons available on 5" and 6" shafts only.
- 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.
- 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 Architectural Colors brochure, form no. 794.3.

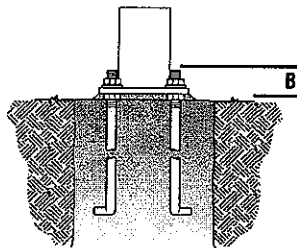
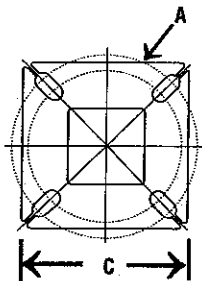
IMPORTANT INSTALLATION NOTES:

- 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 anchorage 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.

SSS Square Straight Steel Poles

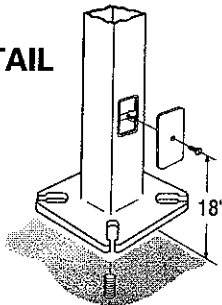
TECHNICAL INFORMATION

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	9.6	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



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:

• 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.



Lithonia Lighting

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FEATURES & SPECIFICATIONS

INTENDED USE— For building- and wall-mounted applications.

CONSTRUCTION — Rugged, die-cast, single-piece aluminum housing. Die-cast door frame has a 1/8" thick tempered glass lens. Door frame is fully gasketed with one-piece solid silicone.

FINISH — Standard finish is new textured dark bronze (DDBT) corrosion-resistant polyester powder finish, with other architectural colors available.

OPTICAL SYSTEM — Segmented reflectors for superior uniformity and control. Reflectors are interchangeable. Three full cutoff distributions available: FT (forward throw), MD (medium throw) and WT (wide throw).

ELECTRICAL SYSTEM — 50W-150W utilizes a high reactance, high power factor ballast. 35S utilizes a reactance high power factor ballast. 175W utilizes a constant-wattage autotransformer ballast. Quick disconnect plug easily disconnects reflector from ballast. Ballasts are copper-wound and 100% factory-tested. Porcelain, medium-base socket with copper alloy, nickel-plated screw shell and center contact. UL listed 660W, 600V 4KV pulse rated.

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

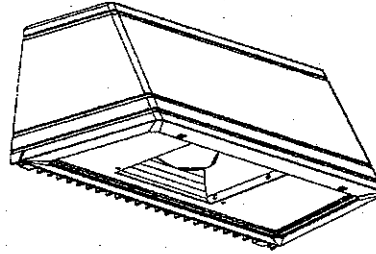
LISTING — UL Listed (standard). CSA Certified (see Options). Suitable for wet locations (damp location listed in lens-up orientation). WLU option offers wet location listing in up orientation (see Options). IP65 rated.

Catalog Number	
Notes	Type

Decorative Wall-Mounted Lighting

WST

METAL HALIDE
50W-175W
HIGH PRESSURE SODIUM
35W-150W



Specifications

Length: 16.25 (41.2)
Depth: 9.13 (23.2)
Overall Height: 7.25 (18.4)
Max. Weight: 30 lbs (13.6 kg)

All dimensions are inches (centimeters) unless otherwise specified.

ORDERING INFORMATION

Example: **WST 175M FT 120 SF LPI DNAT**

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line.

WST				Options	
Series	Wattage/Source	Distribution	Voltage		
WST	Metal Halide	FT Forward throw	120	Shipped Installed In Fixture	
	50M	MD Medium throw	208²	SF Single fuse (120, 277, 347V, n/a TB)	WSTWG Wire guard ⁶
	70M	(coated lamp std.)	240²	DF Double fuse (208, 240V, n/a TB or TBV)	WSTVG Vandal guard ⁶
	100M	WT Wide throw	277	EC Emergency circuit (25W max 120V, incandescent lamp included)	Architectural Colors⁸
	150M		347	DC12 Emergency circuit 12 volt (35W lamp included std.) ⁵	Standard Textured Colors
	175M		TB³	DC2012 Emergency circuit 12 volt (20W lamp included)	DDBT Dark bronze (std.)
	High Pressure Sodium		TBV⁴	QRS Quartz restrike system (100W max 120V, quartz lamp not included)	DSST Sandstone
	35S¹			CR Enhanced corrosion resistance	DNAT Natural aluminum
	50S			CRT Non-stick protective coating (black only)	DWHG White
	70S			PE Photoelectric cell-button type (n/a TB/TBV) ⁶	DBLB Black
	100S			WLU Wet location door for up orientation	Optional Textured Colors
	150S			IBS Internal backlight shield ⁷	DBNH Bronze
				DFL Diffusing lens	DSPD Dark gray
				LPI Lamp included (std)	DSPJ Light gray
				L/LP Less lamp	DSPE Green
				CSA CSA Certified	DSPG Dark red
					DSPF Rust
					DSPH Red
					Striping
					SDDB Dark bronze
					SDWH White
					SDBL Black
					SDNA Natural aluminum
					SDTG Tennis green
					SDBR Bright red
					SDBUA Dark blue
					SDGYM Gray
					SDYLB Yellow
				Shipped Separately	
				WSBBW Surface-mounted back box	
				UT5 Uptilt 5 degrees	

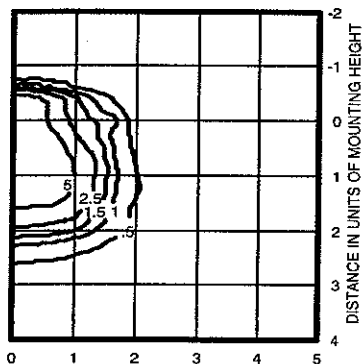
NOTES:

- 120V only.
- Consult factory for availability in Canada.
- Optional multi-tap ballast (120, 208, 240, 277V); (120, 277, 347V in Canada).
- Optional penta-tap ballast (120, 208, 240, 277, 480V; not available in Canada). 175W metal halide only.
- Not available with SF, DF or QRS.
- Must be ordered with fixture; cannot be field installed.
- Not available with medium throw (MD) distribution.
- Additional architectural colors available; see www.lithonia.com for more information.

WST Metal Halide, High Pressure Sodium Building Mounted

WST 175M FT TEST NO: LTL11069

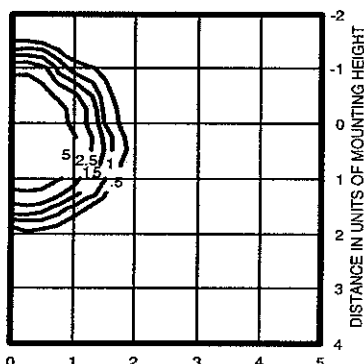
ISOILLUMINANCE PLOT (Footcandle)



175W metal halide lamp, horizontal lamp orientation
Footcandle values based on 12'
mounting height, 12800 rated lumens.
Luminaire Efficiency: 52.9%

WST 175M MD TEST NO: LTL11068

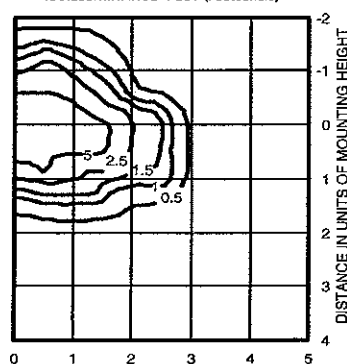
ISOILLUMINANCE PLOT (Footcandle)



175W metal halide lamp, horizontal lamp orientation
Footcandle values based on 12'
mounting height, 11080 rated lumens.
Luminaire Efficiency: 60.2%

WST 175M WT TEST NO: LTL11070

ISOILLUMINANCE PLOT (Footcandle)



175W metal halide lamp, horizontal lamp orientation
Footcandle values based on 12'
mounting height, 12800 rated lumens.
Luminaire Efficiency: 62.4%

Lamp	Initial Lumens	Mounting Height			
		10'	12'	14'	16'
Metal Halide					
50W MH	3,900	0.43	0.30	0.22	0.17
70W MH	5,500	0.62	0.43	0.31	0.24
100W MH	8,500	0.95	0.66	0.48	0.37
150W MH	12,500	1.41	0.98	0.72	0.55
175W MH	12,800	1.44	1.0	0.73	0.56
High Pressure Sodium					
35W HPS	2,250	0.26	0.18	0.13	0.10
50W HPS	4,000	0.45	0.31	0.23	0.17
70W HPS	6,400	0.72	0.50	0.37	0.28
100W HPS	9,500	1.07	0.74	0.54	0.41
150W HPS	16,000	1.80	1.25	0.91	0.70