

#### Description

Sedona is a bollard unlike any other. It utilizes a decorative, edge lit glass block lens. This unique and patented concept provides a functional, low-glare source of light in an attractive, sculptural form. Model 1800-48 lamp source selections include metal halide, compact fluorescent or low voltage MR16 halogen. Our patented LumaLevel" leveling system provides quick installation, easy adjustment, secure mounting and protection from vibration

Catalog #	1800-48-MH39T6	Туре
Project	UNIVERSITY SQUARE DEVELOPMENT	S1
Comments		Date
Prepared by	KJWW ENGINEERING	02-15-06

#### SPECIFICATION FEATURES

#### A ... Material

Housing is constructed from corrosion-resistant 6061 aluminum extrusion. Mounting base is cast from corrosion-resistant silicone aluminum alloy.

#### B ... Finish

Fixture and mounting base are double protected by a chromate conversion undercoating and polyester powdercoat paint finish, surpassing the rigorous demands of the outdoor environment. Fixture housing is available in a variety of standard colors. Mounting base is painted black.

#### C ... Lens

Lens consists of an integral, edge lit decorative glass block, illuminated by a concealed lamp source.

#### D ... Adjustable Mounting Base

Cast aluminum mounting base is equipped with the patented LumaLevel" leveling system that includes mounting chassis, 70 shore neoprene base, stainless steel hardware and 3/4" conduit entry. It provides quick installation, easy adjustment, secure mounting and protection from vibration.

#### E ... Anchor Bolts & Template

Three (3) 1/2" x 18" galvanized anchor bolts and a galvanized steel anchor bolt template are standard. Anchor bolts and template are available to ship in advance of fixtures for rough-in purposes (specify option -LAB and order anchor bolts/template kit separately).

#### F ... Hardware

Stainless steel hardware is standard to provide maximum corrosion-resistance.

#### G ... Socket

MH39T6: Ceramic socket with 250° C Teflon® coated lead wires and G12 base. CF42: Ceramic socket with 250° C Teflon® coated lead wires and GX24q universal base. 50MR16: Ceramic socket with 250° C Teflon® coated lead wires and GU5.3 bi-pin base.

#### H ... Electrical

MH39T6: Integral core & coil ballast is standard (120/208/240/277/347V). Rated for -20° C starting temperature. Integral electronic ballast (120/277V) is available (specify option -EL). CF42: Universal voltage (120/277V) electronic ballast is standard. Rated for -18° C starting temperature, 50MR16: 12V transformer required (not included). Remote transformers are available from Lumière as an accessory - see the Accessories & Technical Data section of this catalog for details. Integral 12V transformer is available as an option (specify option -IT).

#### I ... Lamp

Not included. Available from Lumière as an accessory - see reverse side of this page.

#### J ... Labels & Approvals

UL and cUL listed, standard wet label. Manufactured to ISO 9001-2000 Quality Systems Standard. IBEW union made.

#### K ... Warranty

Lumière warrants its fixtures against defects in materials & workmanship for three (3) years. Auxiliary equipment such as transformers, ballasts and lamps carry the original manufacturer's warranty.



#### **SEDONA**

1800-48

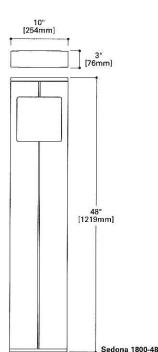
39W (max.) T6 Metal Halide

42W (max.) Compact Fluorescent

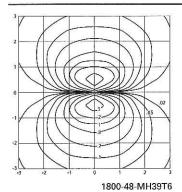
Line Voltage

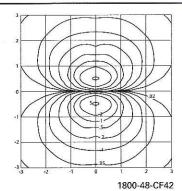
(2) 20W (max.) MR16 Halogen Low Voltage

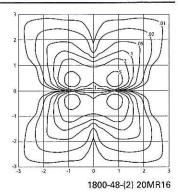
48" Bollard











#### LAMP INFORMATION

Lamp	ANSI Code	Watts	Beam Spread	CBCP	°K	Life (hrs.)	Base	Volts
CDM39/T6	M130PO-REMJ/E	39			3000	12,000	G12 bi-pin	120-347
42TTT		42	2	120001	2900	10,000	universal GX24q	120/277
20MR16/NSP	ESX	20	10°	3400	<del></del>	300 0	GU5.3 bi-pin	12

NOTE: Inferior quality lamps may adversely affect the performance of this product. Use only name brand lamps from reputable lamp manufacturers.

#### NOTES AND FORMULAS

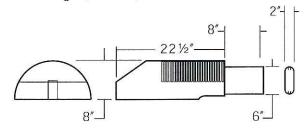
- Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.
- Footcandle values are initial. Apply appropriate light loss factors where necessary.

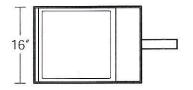


Type: S2 Approvals: Job: UNIVERSITY SQUARE DEVELOPMENT Catalog number: / 250HPS277 / / A-25 Fixture Electrical Module Finish Optional Options See pages 3-4 Vertical Slipfitter Mount See page 2 -Date: See page 5 Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting. Page: 1 of 5

#### **Specifications**

Max weight (400HPS) = 45 lb





**Housing:** One piece die-cast aluminum with integral cooling ribs over the optical chamber and electrical compartment. Solid barrier wall separates optical and electrical compartments. Double-thick wall with gussets on the support-arm mounting end. Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail. All hardware is stainless steel or electro-zinc plated steel.

**Lens Frame:** One piece die-cast aluminum lens frame with 1" minimum depth around the gasket flange. Integral hinges with stainless steel pins provide no-tool mounting and removal from housing. Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one piece extruded and vulcanized silicone gasket. Clear %6" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

**Reflector Module:** Specular Alzak\* optical segments rigidly mounted in an aluminum frame, which attaches to the housing as a one piece module. Reflector module is field rotatable in 90° increments. HPS and PMH sockets are porcelain 4KV pulse rated mogul base, MH sockets are porcelain mogul base, pin-oriented, with molded silicone lamp stabilizer. All reflector modules are factory prewired with quick-disconnect plug and include silicone seal at the penetration of the internal barrier wall in the luminaire housing.

**Electrical Module:** All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. All ballasts are high power factor rated -20°F. starting.

**Support Arm:** One piece extruded aluminum with internal bolt guides and fully radiussed top and bottom. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. Arm is circular cut for specified round pole.

**Finish:** Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a chromate conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver, or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

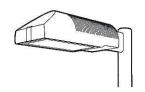
**Certification:** UL Listed to U.S. and Canadian safety standards for wet locations. Fixture manufacturer shall employ a quality program that is audited to ISO9001 standards.

**CAUTION:** Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.



Job: UNIVERSITY SQUARE DEVELOPMENT

Page: 2 of 5



#### **Standard Features**

Mounting	Plan View:	-	-	The state of the s				Wall Mount
<b>3Y</b> configuration is available for round poles only.	EPA: Cat. No.:	1.2 <b>Z</b> 1A	2.4 □ <b>2B</b>	2.0 □ <b>2L</b>	3.2 □ <b>3T</b>	3.2 □ <b>3Y</b>	3.9 <b>4C</b>	n/a 1W
Fixture Cat. No. designates fixture and light distribution. Also see the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.	Fixture Light Distribu Cat. No.:	ution:	Type II		Type III	Type Forward	l Throw	Type V Square
Electrical Module  HPS = High Pressure Sodium  MH = Metal Halide  PMH = Pulse Start Metal Halide	Cat. Nos. for	150 150 150 150 150	Il Modules a HPS120 HPS208 HPS240 HPS277 HPS347 HPS480	☐ 250I ☐ 250I ☐ 250I ☑ 250I ☐ 250I	HPS120 HPS208 HPS240 HPS277 HPS347 HPS480	400HPS1: 400HPS2: 400HPS2: 400HPS2: 400HPS3: 400HPS3:	08	175MH120 175MH208 175MH240 175MH277 175MH347 175MH480
	Lamp	55 Vol	t	E-18, C		E-18, Clear	E	T-28 or D-28, Clear logul Base
	Socket  ANSI Code		Base	Mogul S-50	Base	Mogul Base S-51	Pi	n-Oriented 1-57
Lamp Lamp Line Watts Type Volts 400 HPS 277		☐ 250I ☐ 250I ☐ 250I ☐ 250I	MH120 MH208 MH240 MH277 MH347 MH480	400F   400F   400F   400F   400F	MH208 MH240 MH277 MH347	250PMH1 250PMH2 250PMH2 250PMH2	08	400PMH120 400PMH208 400PMH240 400PMH277 400PMH347 400PMH480
	Lamp	BT-28 o ED-28,		ED-28,	Clear	ED-28, Clear	EC	D-28, Clear
	Socket	Mogul Pin-Or		Mogul Pin-Ori		Mogul Base	М	ogul Base
	ANSI Code	M-58		M-59		M-138	M	-135
Finish Super TGIC powder coat paint over a chromate conversion coating.	Cat. No.:	olors subj	Dark Bron.  DB-P  ect to additi ive. Custom	□ <b>L(</b> onal char	<b>G-P</b> □ I ges, minimu	tinum Silver  PS-P [ m quantities ar	□WH-P	*Custom Color  CC-P ed lead times.



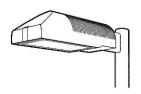
Cat. No. 

LS

No Option

Job: UNIVERSITY SQUARE DEVELOPMENT

Page: 3 of 5



#### **Optional Features**

Fixture mounted to poured concrete walls only. A **Wall Mounting** modified support arm is provided with side access to Cat. No. 1W allow field splices within the arm. A wall embedment Select from Mounting on bracket (WEB) is provided to accept draw bolts, and a page 2. trim plate covers the wall-embedded Junction Box. All wall mount components are finished to match the fixture. Wall mount using wall embedment bracket - J-box in wall (by others) Photocell Receptacle Fixture supplied with a fully gasketed receptacle above the electrical compartment for NEMA base photocell Cat. No. **Z** A-25 (by others). For all multiple-fixture pole mountings with Receptacle ■ No Option two or three fixtures, one fixture has a receptacle to operate the others. Four fixtures (250 watt or less) also require one fixture with a receptacle. Four fixtures (400 watt) require two fixtures with receptacles. Mounting (see page 2) \*- Fixture with Photocell Receptacle S – slave unit(s) 2L 3T, 3Y 4C 150-250W 400W Allowable wattage per fixture: 150-400W Convex Glass Lens The 3/16" thick clear convex tempered glass lens replaces the standard flat glass lens. Provides increased lens Cat. No. 

CGL presence and provides a subtle improvement in No Option uniformity where pole spacing is extreme. Increases effectiveness of houseside shielding. Polycarbonate Shield Fixture supplied with a one piece vacuum formed, clear, UV stabilized convex polycarbonate, fully gasketed,

replacing the standard tempered glass lens. 250 watt

maximum. May be used with 400HPS in outdoor locations where ambient air temperature during fixture

CAUTION: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from

operation will not exceed 85°F.

sunlight and metal halide lamps.



Job: UNIVERSITY SQUARE DEVELOPMENT

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#### **Optional Features**

#### Houseside Shield (Types II, III, and IV only). Fixtures with the standard flat glass lens are available with stamped aluminum Cat. No. (See right) louvers that pass streetside light and block houseside I No Option light, and a blackened panel added to the reflector to reduce houseside reflections. Fixtures with the optional convex glass lens are available with a formed aluminum shield that passes streetside light and blocks houseside light, and a black anodized panel added to HS HSC the reflector to reduce houseside reflections. Use with for flat lens for convex lens clear lamps only, as coated lamps reduce effectiveness. Cat. No. Recommended for use with clear lamps only. Effectiveness is reduced for coated ☐ HS lamps. Not for use with Type V light distributions. For use with all fixtures with convex glass lens. Not for use with Type V light HSC distributions. Tamper-Resistant Latch Standard die-cast latch is provided with a captive 10-32 stainless steel flat socket-head screw to prevent Cat. No. TL unauthorized opening. No Option **NOTE:** Required only for vandal protection in locations where fixtures can be reached by unauthorized persons. Davit-arm with 2" pipe-size **Horizontal Slipfitter Mount** Replaces standard mounting arm with a slipfitter which fixture mount (by others) allows fixture to be mounted to a horizontal pole davit-Cat. No. HSF arm with 2" pipe-size mounting end (2%" O.D.). Cast No Option aluminum clamp-type slipfitter with set screw antirotation lock. Bolts to housing from inside the electrical compartment using mounting holes for the standard **Horizontal Slipfitter** support arm. Davit-arm must be field drilled at a set Mount by Kim screw location to insure against fixture rotation. Finished to match fixture. Special Options for Terminal Block (TB): For field wire **Air Filter (AF):** Allows for ventilation through connections. 85AMP, 600V box clamp the optical chamber, filtering all air particles Street Lighting above 500 microns. Multi-layer disc assembly terminal block mounted to the housing Cat. No. AF mounted on solid wall between optical inside the electrical compartment. Accepts □ TB compartment and latch cavity. #14-4 wire. Factory prewired to electrical ✓ No Option module quick-disconnect plug. **Terminal Block**

Air Filter



Job: UNIVERSITY SQUARE DEVELOPMENT

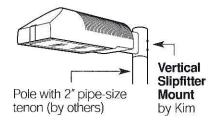
Page: 5 of 5

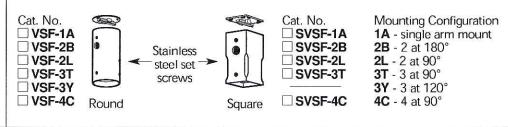
#### **Optional Features**

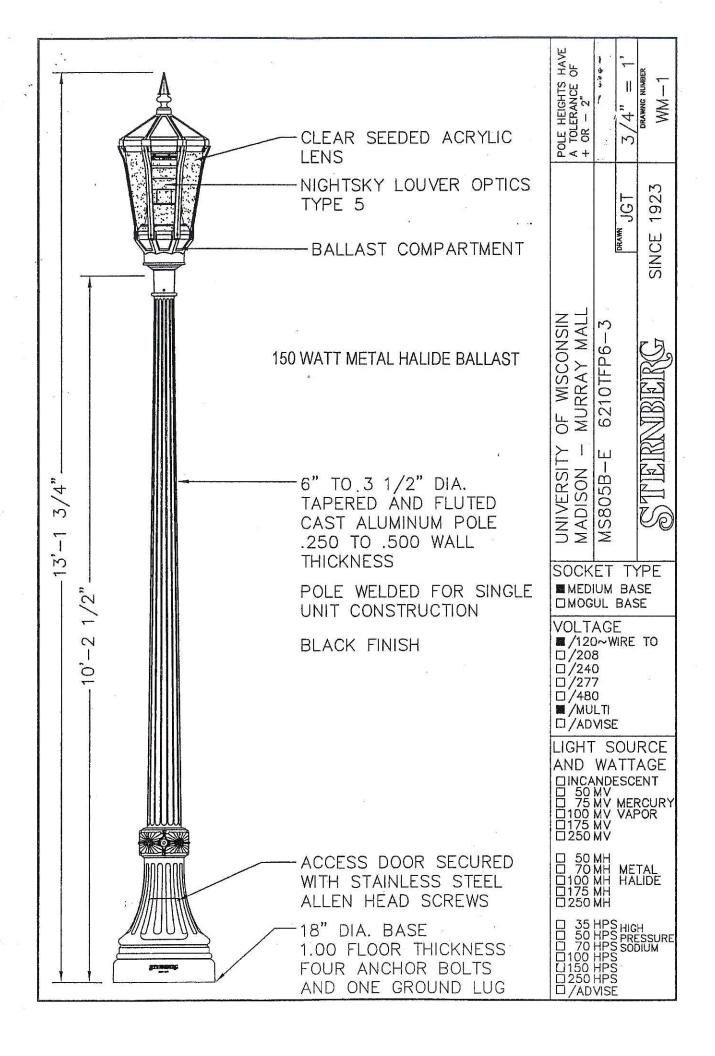
Vertical Slipfitter Mounts
Cat. No. includes Mounting
Cat. No. (See right)

No Option

Allows fixture with standard support arm to be mounted to poles having a 2" pipe-size tenon (2%" O.D. x  $4\frac{1}{2}$ " min. length). All mounting configurations can be used (1A, 2B, 2L, 3T, 3Y, 4C). 4" square or round die-cast aluminum with flush cap, secured by four  $\frac{3}{6}$ " stainless steel set point allen screws, finished to match fixture and arm.



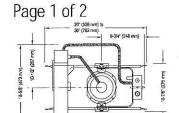




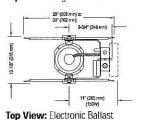


#### Calculite® HID Downlight **C6T6VW**

6" Aperture, 2pc Vertical, T6 Wide Beam



Top View: Magnetic Ballast



Ceiling Cutout: 6 9/16" (167 mm) Dia.

5 1 2 4 3 6 8 9 10 7

Future Support Member 56' (15 mm) to 2 7/8' (13 mm)

2 (50 mm) max. Celling Thickness

<b>Reflector Trim</b>			Frame-In		Lamp	
C6T6VW	CLW	Specular Clear, White Painted Flange.	C639T6E1	Electronic 120V	39W T6	Ceramic Metal Halide
	CLP	Specular Clear, Matching Flange.	C639T6E2	Electronic 277V	39W T6	Ceramic Metal Halide
	CCDW	Comfort Clear Diffuse, White Painted Flange.	C670T6E1	Electronic 120V	70W T6	Ceramic Metal Halide
	CCDP	Comfort Clear Diffuse, Matching Flange.	C670T6E2	Electronic 277V	70W T6	Ceramic Metal Halide
	CCZW	Champagne Bronze, White Painted Flange.	C615T6E1	Electronic 120V	150W T6	Ceramic Metal Halide
	CCZP	Champagne Bronze, Matching Flange.	C615T6E2	Electronic 277V	150W T6	Ceramic Metal Halide
			C615T6U	Magnetic 120V/277V	150W T6	Ceramic Metal Halide

#### **Features**

- Upper Reflector: Clear anodized aluminum, 0.040" (16-ga.). Provides wide beam optics ideal for general lighting. Also available in narrow and medium beam, see C6T6VN and C6T6VM specification sheets.
- Aperture Cone: Provides 50° visual cut-off to lamp and lamp image; selfflange in painted white or aperture-matching polished flange. Consult factory for other finishes.
- Lamp Shield: High-temperature glass as required by code, captive during re-lamping. Light diffusion provides exceptionally smooth beam.
- Socket Housing: Galvanized steel, pre-wired with G12 pulse rated socket.
   Snaps onto upper reflector for secure attachment without tools; assures proper lamp alignment to optics for consistent performance...
- 5. Mounting Frame: 0.048" (18-ga.) galvanized steel. Vertical adjustment mechanism accommodates mounting to virtually any ceiling system using mounting bars (provided, or 1/2" EMT tubing (by others). Single locking feature secures all adjustments. Alignment holes and markings allow fixture to be preset prior to installation.
- 6. Mounting Ring: 0.048"(18-ga.) galvanized steel. Designed for vertical adjustment from above or below for ceilings from 0" to 2" thick. Center-line notches allow consistent alignment of multiple fixtures.
- 7. Mounting Bars: 0.048" (18-ga.) pre-installed, telescoping bars extend to 30" long and lock securely into position. Built-in locking tabs provide positive attachment to common T-bar systems. Self-centering feature simplifies installation in 24" O.C. grid systems. Attaches to steel or wood joists without accessories.
- Trim Retention Springs: Rust resistant springs secure reflector/housing for quick, tool-less installation.
- Ballast / Socket Housing / Cover Assembly: Snaps onto junction box without tools for inspection and ballast replacement, accessible from below.
- 10. Junction Box: 0.048" (18-ga.) galvanized steel. UL listed for 8 No. 12 AWG, 90°C through branch circuit conductors. Allows inspection from below.
- 11.Thermal Protector: (Not Shown) Meets NEC and UL requirements. Do not install insulation above nor within 3" (76mm) of any part of the luminaire.

#### **Electrical**

**Electronic Ballast:** 120 or 277V, 50/60 Hz., encased, high power factor, T.H.D. <15%, thermally and transient protected, RMI/RFI complies with FCC Part 18 non-consumer equipment, shut-down circuit at end of lamp life, sound rating "A", -5°F (-20°F for 150W) minimum starting temperature, Type 1 outdoor rating

#### Electrical (cont.)

**150W Magnetic Ballast:** 120/277V dual voltage, 60 Hz., encased and potted, HX-HPF circuit type, high power factor, sound rating "B", -20°F minimum starting temperature, Type 1 Outdoor rating.

Ballast	ANSI Code	Voltage	Max. Amps	Input Watt
39W MH	M130	120/277	0.39/0.17	44
70W MH	M139	120/277	0.67/0.29	78
150W MH	M142	120/277	1.40/0.60	169/166
* 150W MH	M142	120/277	3.70/1.60	180
* Magnetic E	Ballast			

#### **Options and Accessories**

**Auxiliary:** Add suffix **A** to Frame-In Kit and Reflector Trim. See Spec.Sheet "A/E". For 277 electronic consult factory.

Emergency: Add suffix E to Reflector Trim and Frame-In Kit. See Spec. Sheet "A/E". Slope Ceiling Adapters: See Specification Sheet SCA.

Chicago Plenum: Consult Factory.

#### Labels

cULus (Suitable for Damp Locations), I.B.E.W.

For 150W, install fixtures with minimum spacing; 3 feet from center-to center of adjacent luminaries, 3" from top of luminaire to overhead building member; 1 1/2 feet from luminaire center to side building member.

#### **Job Information**

Type:

**S4** 

Job Name: UNIVERSITY SQUARE DEVELOPMENT

Cat. No.: C6T6VWCCDP

Lamp(s): 39 WATT T6 METAL HALIDE

Notes: KJWW ENGINEERING

**Lightolier** a Genlyte Company www.lightolier.com 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710 We reserve the right to change details of design, materials and finish. © 2004 Genlyte Group LLC • B1204





#### Calculite® HID Downlight **C6T6VW**

LUMINAIRE INPUT WATTS = 44

Page 2 of 2

6" Aperture, 2pc Vertical, T6 Wide B

39W T6 PHILIPS CMH LAMP, LUMEN RATING = 3400 LMS, AROMAT ELECTRONIC BALLAST, CL FINISH TRIM

#### CANDLEPOWER DISTRIBUTION MEAN CP LUMENS ANGLE 0 5 1453 1489 10 15 20 25 30 35 40 45 50 65 70 75 80 1502 420 638 1.125 0 0 85

90

LUMINAN		MARY CD. A N CD/SQ M					,uei	ficie	1162	יט וע	IIIZa	LIUII			
45 55		26087 338	9	CEILING			30%			70%		50%		30%	
65		338		WALL	70	50	30	10	50	10	50	10	50	10	0
75		0	-	RCR	Zona	l Cav	ity N	lethod	- Effe	ective	Floor	Cavity	Refle	ectano	ce = 20
85		0	111	0 1 2	.76 .73 .70	.76 .71 .67	.76 .70 .64	.76 .68 .62	.74 .70 .66	.74 .67 .62	.71 .67 .63	.71 .65 .60	.68 .65 .62	.68 .63 .59	.64 .60 .57
ZONAL	LUMEN	IS AND PER	CENTAGES	3	.66	.62	.59	.57	.61	.56	.60	.56	.58	.55	.53
ZONE LU 0-30 0-40 0-60 0-90	1197 1893 2164 2164	% LAMP 35.22 55.68 63.65 63.65	%LUMINAIRE 55.34 87.47 100 100	5 6 7	.63 .60 .57 .53	.58 .55 .51 .48	.55 .51 .47 .44	.53 .48 .45 .41	.58 .54 .51 .47	.52 .48 .44 .41	.56 .53 .50 .46	.52 .4B .44 .41	.55 .52 .49 .45	.51 .47 .44 .40	.49 .46 .43 .39
40-90 60-90 90-180	271 0 0	7.97 0 0	12.53		.50 .47 .44	.44 .41 .38	.40 .37 .34	.38 .34 .31	.44 .41 .38	.37 .34 .31	.43 .40 .37	.37 .34 .31	.42 .39 .37	.37 .34 .31	.36 .33 .30

CERTIFIED TEST REPORT NO. 2327FR, DATE: OCT 25, 2003

SC = 1.2COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*

1 125

#### 70W T6 PHILIPS CMH LAMP, LUMEN RATING = 6600 LMS, AROMAT ELECTRONIC BALLAST, CL FINISH TRIM

CANDLEPOWER DISTRIBUTION			
	ANGLE 0	MEAN CP 2579	LUMENS
	5	2582	248
lass X	10	2633	
625	15	2667	747
	20	2575	
60°	25	2503	1177
	30	2594	
1,250	35	2181	1309
	40	1382	
\ \ /	45	564	495
	50	45	
	55	8	14
1,875	60	2	
	65	0	1
	70	0	
	75	0	0
2,500	80	0	
2,000	85	0	0
30°	90	0	

LUMIN	IANCE SUN	IMARY CD. IN CD/SO N				C	coef	ficie	nts o	of Ut	iliza	tion			
45		47753		CEILING	1	5	30%	- 1		70%		50%	1 3	30%	
55 65		792 11		WALL	70	50	30	10	50	10	50	10	50	10	0
75	i	0		RCR	Zona	I Cav	rity N	1ethod	- Effe	ective	Floor	Cavity	Refle	ectan	ce = 20%
85		0	1.20	0 1 2	.72 .69 .66	.72 .67 .63	.72 .66 .61	.72 .65 .59	.71 .66 .62	.71 .64 .5B	.67 .64 .60	.67 .62 .57	.65 .61 .58	.65 .60 .56	.61 .57 .54
ZONE 0-30 0-40 0-60 0-90 40-90 60-90 90-180	2172 3481 3990 3990 509 0	% LAMP 32.91 52.75 60.46 60.47 7.72 0.01 0	RCENTAGES %LUMINAIRE 54.43 87.24 99.96 100 12.76 0.02	5 6 7 8 9 10	.63 .60 .56 .54 .50 .48 .45	.59 .55 .52 .48 .45 .42 .39 .36	.56 .52 .48 .45 .41 .38 .35 .32	.54 .50 .45 .42 .39 .35 .32 .29	.58 .55 .51 .48 .44 .41 .38 .35	.53 .49 .45 .42 .38 .35 .32	.57 .53 .50 .47 .44 .41 .38	.53 .49 .45 .42 .38 .35 .32 .29	55 52 49 46 .43 .40 .37 .34	.52 .48 .44 .41 .38 .35 .32	.50 .47 .43 .40 .37 .34 .31
0-180	3990	60.47	100	,			1	UMINA	IRE IN	IPUT \	NATTS	S = 78			

CERTIFIED TEST REPORT NO. 2323FR, DATE: OCT 04, 2003 COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\* \*\* EFFICIENCY = 60.5% \*\*

#### 150W T6 PHILIPS CMH LAMP, LUMEN RATING = 14000 LMS, AROMAT ELECTRONIC BALLAST, CL FINISH TRIM

	ANGLE 0	MEAN CP 5583	LUMENS
	5	5573	533
	10	5619	000
375	15	5646	1588
- / / X	20	5503	
\ \ \ 60	· 25	5245	2472
\ X	30	5370	
× 1	35	4530	2727
750	40	2936	
	45	1247	1071
	50	102	
	55	17	32
125	60	7	
	65	1	2
	70	0	
	75	0	0
	80	0	
500	85	0	0
30	90	0	

SC = 1.25

50 30 10 50 10 50 Cavity Method - Effective Floor C	% 30% 10 50 10 0 Cavity Reflectance =
Cavity Method - Effective Floor C	
	avity Reflectance =
20 70 70 70 70 67	
57 66 64 66 63 63 63 63 63 63 65 65 65 65 65 65 65 65 65 65 65 65 65	.67
38 .35 .32 .38 .32 .37	.32 .37 .32 .3 .29 .34 .29 .28
38	.35 .32 .38 .32 .37

CERTIFIED TEST REPORT NO. 2330FR, DATE: OCT 07, 2003 COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

**S4 Job Information** Type:

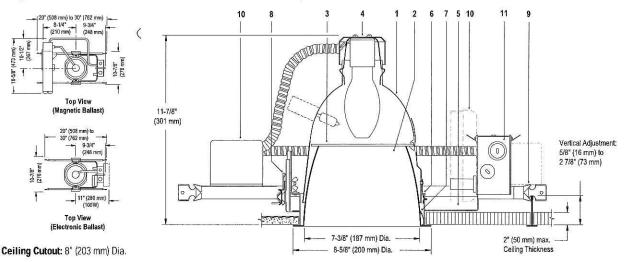
Lightolier a Genlyte company www.lightolier.com 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710 We reserve the right to change details of design, materials and finish. © 2004 Genlyte Group LLC · B1204



#### Calculite® HID Downlight C7E17VW

#### Page 1 of 2

7" Aperture, ED17 (Enclosed), Ceramic Metal Halide, Wide Beam



Reflect	or Trim		Frame-In	ı Kit	Lamp (Coated, Ceramic MH)		
C7E17VW	CLW	Specular Clear, White Painted Flange.	C770MHE1	Electronic 120V	70W ED17, BD17 (Enclosed)		
	CLP	Specular Clear, Matching Flange.	C770MHE2	Electronic 277V	70W ED17, BD17 (Enclosed)		
	<b>CCDW</b>	Comfort Clear Diffuse, White Painted Flange.	C710MHE1	Electronic 120V	100W ED17, BD17 (Enclosed)		
	CCDP	Comfort Clear Diffuse, Matching Flange.	C710MHE2	Electronic 277V	100W ED17, BD17 (Enclosed)		
	CCZW	Champagne Bronze, White Painted Flange.	C770MHU	Magnetic 120V/277V	70W ED17, BD17 (Enclosed)		
	CCZP	Champagne Bronze, Matching Flange.	C710MHU	Magnetic 120V/277V	100W ED17, BD17 (Enclosed)		

#### **Features**

- Upper Reflector: Clear anodized aluminum, 0.040" (16-ga.). Provides wide beam distribution
- Aperture Cone: Provides 50° visual cut-off to lamp and lamp image; self-flange in painted white or aperture-matching polished flange. Consult factory for other finishes.
- 3. Lamp Guard: High heat resistant glass as required by code.
- Socket Housing: Galvanized steel, snaps onto upper reflector for secure attachment without tools; assures proper lamp alignment to optics for consistent performance.
- Mounting Frame: 0.048" (18-ga.) galvanized steel includes pre-installed mounting bars.
- 6. Mounting Ring: 0.048" (18-ga.) galvanized steel. Designed for vertical adjustment from above or below for ceilings from 0" to 2" thick. Center-line notches allow consistent alignment of multiple fixtures.
- Retention Springs: Rust resistant springs secure cone in place for quick, tool-less installation.
- 8. Frame Vertical Adjustment Mechanism: Vertical adjustment mechanism accommodates mounting to virtually any ceiling system using pre-installed mounting bars, or 1/2" EMT tubing (by others). Single locking feature secures all adjustments. Alignment holes and markings allow fixture to be pre-set prior to installation.
- 9. Mounting Bars: 0.048" (18-ga.) Pre-installed, telescoping bars extend to 30" long and lock securely into position. Built-in locking tabs provide positive attachment to common T-bar systems. Self-centering feature simplifies installation in 24" O.C. grid systems. Attaches to steel or wood joists without accessories.
- 10.Ballast: Electronic 120V or 277V. Magnetic dual voltage (120V & 277V). Accessible from below for inspection and/or replacement without tools.
- 11. Junction Box: 0.048" (18-ga.) galvanized steel. UL listed for 8 No. 12 AWG, 90°C through branch circuit conductors; allows inspection from below.
- 12.Thermal Protector: (Not Shown) Meets NEC and UL requirements. Do not install insulation above nor within 3" (76mm) of any part of the luminaire.

#### Electrical

**Electronic Ballast:** 120V or 277V, 50/60 Hz., encased, high-power factor, T.H.D. <15%, thermally and transient protected, RMI / RFI complies with FCC Part 18 non-consumer equipment, shut-down circuit at end of lamp life, sound rating "A", -5°F minimum starting temperature, Type 1 outdoor rating.

#### **Electrical (cont)**

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
70W MH	M98/M143	120/277	0.67/0.28	78
100W MH	M90/M140	120/277	0.90/0.43	110

Magnetic Ballast: 120/277V dual voltage, 60 Hz., encased and potted, HX-HPF circuit type, high power factor, sound rating "B", -20°F minimum starting temperature, Type 1 Outdoor rating.

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
70W MH	M98/M143	120/277	1.90/0.80	94
100W MH	M90/M140	120/277	2.40/1.10	125

#### **Options and Accessories**

Auxiliary: Add suffix A to Frame-In Kit and Reflector Trim. See Spec.Sheet "A". Emergency Lamp: Add suffix E to Reflector Trim and Frame In Kit. See Spec.Sheet "E".

Slope Ceiling Adapters: See Specification Sheet SCA.

Fuse (magnetic ballast): Add suffix F1 or F2 to Frame In Kit (F1=120V, F2=277V)

Chicago Plenum: Consult Factory.

#### Labels

UL (Suitable for Damp Locations), CSA (magnetic ballast only), I.B.E.W. For 100W electronic, install fixtures with minimum spacing: 2 feet from center-to-center of adjacent luminaries; 1/2 inch from top of luminaire to overhead building member; 1 foot from luminaire center to side building member.

#### Job Information

Type:

95

Job Name: UNIVERSITY SQUARE DEVELOPMET Cat. No.:

C7E17VWCCDP-C710MHE2

Lamp(s): 100 WATT METAL HALIDE

Notes: KJWW ENGINEERING

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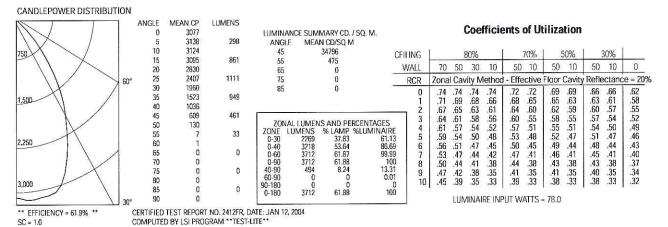


#### Calculite® HID Downlight C7E17VW

Page 2 of 2

7" Aperture, ED17 (Enclosed), Ceramic Metal halide, Wide Bea

#### 70W ED17 (ENCLOSED) PHILIPS CMH, LUMEN RATING = 6000 LMS, AROMAT ELECTRONIC BALLAST, CL FINISH REFLECTOR TRIM



#### 100W ED17 (ENCLOSED) PHILIPS CMH, LUMEN RATING = 9000 LMS, AROMAT ELECTRONIC BALLAST, CL FINISH REFLECTOR TRIM

#### CANDLEPOWER DISTRIBUTION MEAN CP Coefficients of Utilization 4614 LUMINANCE SUMMARY CD. / SQ. M. 4705 446 MEAN CD/SQ M **ANGLE** 10 4685 45 52135 1,125 CEILING 4641 1291 15 639 55 50 10 WALL 70 50 30 10 50 10 50 10 20 25 30 4244 1667 Zonal Cavity Method - Effective Floor Cavity Reflectance = 20% 3609 75 **RCR** .69 .62 .58 .55 .52 .49 .46 .43 .40 .37 .34 .74 .69 .65 .61 .57 .54 .51 .47 .42 .39 1423 35 40 2283 2.250 .68 .64 .60 .57 .53 .50 .47 .44 .41 .65 .60 .55 .51 .48 .45 .41 .38 .35 .65 .58 .55 .52 .49 .46 .43 .41 .63 .59 .54 .51 .47 .44 .41 .38 .35 .63 .60 .57 .54 .51 .48 .45 .43 .61 .57 .54 .50 .47 .44 .41 .38 .35 1553 .63 .58 .54 .50 .47 .44 .41 .61 .56 .52 .48 .45 .42 .38 .35 .67 .64 .61 .58 .56 .53 .50 .47 691 70NAL LUMENS AND PERCENTAGES ZONE LUMENS % LAMP %LUMINAIRE 0-30 3403 37.62 61.15 0-40 4826 53.62 86.71 0-60 5565 61.84 100 0-90 5565 61.84 100 0-90 739 8.22 13.29 50 55 195 48 0-30 0-40 0-60 0-90 40-90 60-90 3 375 60 65 70 0 75 80 0 61.84 100 4.500 LUMINAIRE INPUT WATTS = 110.0

\*\* EFFICIENCY = 61.8% \*\* CERTIFIED TEST REPORT NO. 2509FR , DATE: MAR 3, 2004 SC = 1.0 COMPUTED BY LSI PROGRAM \*\*TEST-LITE\*\*

Job Information Type: S5





Type: S6

Job: UNIVERSITY SQUARE DEVELOPMENT

Catalog number:

/ A-25

Fixture Electrical Module Finish

Options See pages 3-4 Optional Vertical Slipfitter Mount See page 5

Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

Approvals:

Date:

Page: 1 of 5

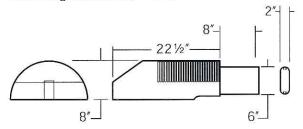
#### **Specifications**

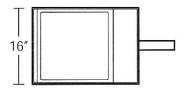
/ AR2 / 250HPS277 /

See page 2

Mtg.

Max weight (400HPS) = 45 lb





**Housing:** One piece die-cast aluminum with integral cooling ribs over the optical chamber and electrical compartment. Solid barrier wall separates optical and electrical compartments. Double-thick wall with gussets on the support-arm mounting end. Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail. All hardware is stainless steel or electro-zinc plated steel.

**Lens Frame:** One piece die-cast aluminum lens frame with 1" minimum depth around the gasket flange. Integral hinges with stainless steel pins provide no-tool mounting and removal from housing. Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one piece extruded and vulcanized silicone gasket. Clear %" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

**Reflector Module:** Specular Alzak® optical segments rigidly mounted in an aluminum frame, which attaches to the housing as a one piece module. Reflector module is field rotatable in 90° increments. HPS and PMH sockets are porcelain 4KV pulse rated mogul base, MH sockets are porcelain mogul base, pin-oriented, with molded silicone lamp stabilizer. All reflector modules are factory prewired with quick-disconnect plug and include silicone seal at the penetration of the internal barrier wall in the luminaire housing.

**Electrical Module:** All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. All ballasts are high power factor rated -20°F. starting.

**Support Arm:** One piece extruded aluminum with internal bolt guides and fully radiussed top and bottom. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. Arm is circular cut for specified round pole.

**Finish:** Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a chromate conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver, or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

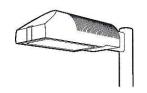
**Certification:** UL Listed to U.S. and Canadian safety standards for wet locations. Fixture manufacturer shall employ a quality program that is audited to ISO9001 standards.

**CAUTION:** Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.



Job: UNIVERSITY SQUARE DEVELOPMENT

Page: 2 of 5



#### **Standard Features**

Mounting	Plan View:	<b>—</b>			<b>———</b>			Wall Mount
<b>3Y</b> configuration is available for round poles only.	EPA: Cat. No.:	 1.2 □ <b>1A</b>	2.4 <b>∡2B</b>	2.0	3.2 □ <b>3T</b>	3.2 □ <b>3Y</b>	3.9 □ <b>4C</b>	n/a □ <b>1W</b>
Fixture  Cat. No. designates fixture and light distribution.  Also see the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.	Fixture Light Distribu	ution:	Type II	)	Type III	Type Forward	Throw	Type V Square
Electrical Module  HPS = High Pressure Sodium  MH = Metal Halide  PMH = Pulse Start Metal Halide	Cat. Nos. for	☐ 150H ☐ 150H ☐ 150H ☐ 150H ☐ 150H	ll Modules a HPS120 HPS208 HPS240 HPS277 HPS347 HPS480	☐ 250H ☐ 250H ☐ 250H ☑ 250H	IPS208 IPS240 IPS277 IPS347	☐ 400HPS12 ☐ 400HPS20 ☐ 400HPS20 ☐ 400HPS34 ☐ 400HPS34	08 40 77 47	175MH120 175MH208 175MH240 175MH277 175MH347 175MH347
	Lamp			E-18, C Mogul I		E-18, Clear Mogul Base	E N F	BT-28 or ID-28, Clear Mogul Base Pin-Oriented
Lamp Lamp Line Watts Type Volts 400 HPS 277	ANSI Code		VIH240 VIH277 VIH347	S-50   400N   400N   400N   400N   400N	1H208 1H240 1H277 1H347	S-51  250PMH1: 250PMH2: 250PMH2: 250PMH2:	20   [ 08   [ 40   [	400PMH120 400PMH208 400PMH240 400PMH277 400PMH347 400PMH348
	Lamp	BT-28 c ED-28,	Clear	ED-28,		ED-28, Clear		D-28, Clear
	Socket  ANSI Code	Mogul Pin-Ori M-58		Mogul E Pin-Orie M-59		Mogul Base M-138		Mogul Base M-135
Finish Super TGIC powder coat paint over a chromate conversion coating.	Cat. No.:	lors subje	Dark Bronz  DB-P  ect to addition ive. Custom	□ <b>LG</b> nal charg	es, minimu	tinum Silver N PS-P [ m quantities ar	WH-P	*Custom Colc CC-P  led lead times.

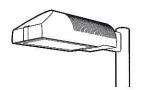


Job: UNIVERSITY SQUARE DEVELOPMENT

Page: 3 of 5

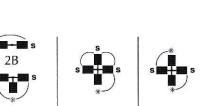
Receptacle

400W



#### **Optional Features**

**Wall Mounting** Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to Cat. No. 1W allow field splices within the arm. A wall embedment Select from Mounting on bracket (WEB) is provided to accept draw bolts, and a page 2. trim plate covers the wall-embedded Junction Box. All wall mount components are finished to match the fixture. Wall mount using wall embedment bracket - J-box in wall (by others) Fixture supplied with a fully gasketed receptacle above Photocell Receptacle the electrical compartment for NEMA base photocell Cat. No. **Z** A-25 (by others). For all multiple-fixture pole mountings with ■ No Option two or three fixtures, one fixture has a receptacle to operate the others. Four fixtures (250 watt or less) also require one fixture with a receptacle. Four fixtures (400 watt) require two fixtures with receptacles. Mounting (see page 2)



Allowable wattage per fixture:

S - slave unit(s)

\*- Fixture with Photocell Receptacle

effectiveness of houseside shielding.

2L 3T, 3Y 4C 150-400W 150-250W



Polycarbonate Shield Cat. No. LS No Option

Convex Glass Lens

No Option

Cat. No. 

CGL

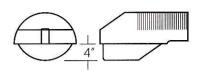
Fixture supplied with a one piece vacuum formed, clear, UV stabilized convex polycarbonate, fully gasketed, replacing the standard tempered glass lens. 250 watt maximum. May be used with 400HPS in outdoor locations where ambient air temperature during fixture operation will not exceed 85°F.

The 3/16" thick clear convex tempered glass lens replaces the standard flat glass lens. Provides increased lens

presence and provides a subtle improvement in

uniformity where pole spacing is extreme. Increases

CAUTION: Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight and metal halide lamps.





AR
The Archetype®
revision 2/14/00 • ar.pdf

Type: S6

Job: UNIVERSITY SQUARE DEVELOPMENT

Page: 4 of 5

#### **Optional Features**

Houseside Shield Cat. No. (See right)  No Option	(Types II, III, and IV only). Fixtures with the standard flat glass lens are available with stamped aluminum louvers that pass streetside light and block houseside light, and a blackened panel added to the reflector to reduce houseside reflections. Fixtures with the optional convex glass lens are available with a formed aluminum shield that passes streetside light and blocks houseside light, and a black anodized panel added to the reflector to reduce houseside reflections. Use with clear lamps only, as coated lamps reduce effectiveness.  HSC for flat lens
	Cat. No.    HS   Recommended for use with clear lamps only. Effectiveness is reduced for coated lamps. Not for use with Type V light distributions.
	☐ <b>HSC</b> For use with all fixtures with convex glass lens. Not for use with Type V light distributions.
Tamper-Resistant Latch Cat. No. ☐ TL  ☑ No Option	Standard die-cast latch is provided with a captive 10-32 stainless steel flat socket-head screw to prevent unauthorized opening.  NOTE: Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.
Horizontal Slipfitter Mount Cat. No. HSF  No Option	Replaces standard mounting arm with a slipfitter which allows fixture to be mounted to a horizontal pole davitarm with 2" pipe-size mounting end (2%" O.D.). Cast aluminum clamp-type slipfitter with set screw antirotation lock. Bolts to housing from inside the electrical compartment using mounting holes for the standard support arm. Davit-arm must be field drilled at a set screw location to insure against fixture rotation. Finished to match fixture.
Special Options for Street Lighting Cat. No. AF TB No Option	Air Filter (AF): Allows for ventilation through the optical chamber, filtering all air particles above 500 microns. Multi-layer disc assembly mounted on solid wall between optical compartment and latch cavity.  Terminal Block (TB): For field wire connections. 85AMP, 600V box clamp terminal block mounted to the housing inside the electrical compartment. Accepts #14-4 wire. Factory prewired to electrical module quick-disconnect plug.
	Air Filter Terminal Block



Job: UNIVERSITY SQUARE DEVELOPMENT

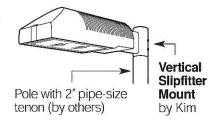
Page: 5 of 5

#### **Optional Features**

Vertical Slipfitter Mounts
Cat. No. includes Mounting
Cat. No. (See right)

No Option

Allows fixture with standard support arm to be mounted to poles having a 2" pipe-size tenon (2%" O.D. x 4½" min. length). All mounting configurations can be used (1A, 2B, 2L, 3T, 3Y, 4C). 4" square or round die-cast aluminum with flush cap, secured by four 3%" stainless steel set point allen screws, finished to match fixture and arm.



Cat. No.  VSF-1A  VSF-2B  VSF-2L  VSF-3T  VSF-3Y  VSF-4C	Round	Stainless  steel set screws	Square	Cat. No. SVSF-1A SVSF-2B SVSF-2L SVSF-3T SVSF-4C	Mounting Configuration 1A - single arm mount 2B - 2 at 180° 2L - 2 at 90° 3T - 3 at 90° 3Y - 3 at 120° 4C - 4 at 90°
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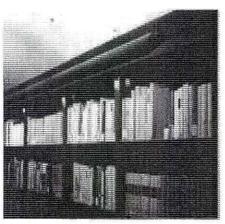
#### C O L E L I G H T I N G

# BANANA REPUBLIC

The Signlighter length may be varied to meet the job requirements.



End mounting brackets may be modified to suit unique conditions.



Many applications suit the Signlighter's versatile capabilities.

#### Commercial Applications Signlighter

#### **SL SERIES**

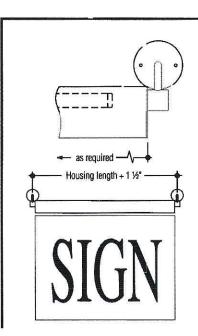
The Signlighter provides illumination for vertical surfaces with close mounting requirements. The unique fixture design provides greater lumen output as the illuminated surface becomes farther from the fixture, providing even illumination for signage, stack lighting, or wallwashing applications. Mounting arms may be customized as required. The remote ballast allows a minimal fixture profile. The Signlighter is suitable for wet locations when aimed in a downward direction.

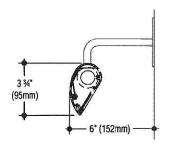


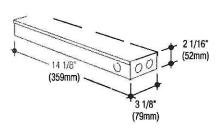
C. W. Cole & Company, Inc. 2560 N. Rosemead Boulevard South El Monte, CA 91733-1593

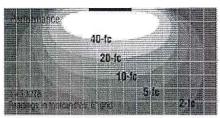
Fax (626) 443-9253

Tel. (626) 443-2473 info@colelighting.com www.colelighting.com









Isolux Footcandle Conversion Chart

Lamp Type	Lumens/foot	Multiplier
T8 Rapid Start fluor.	725	1.00
T8 High Output fluor.	1020	1.41
T5 High Output fluor.	1210	1.67

The isolux curves illustrated show the footcandle distribution for a Signlighter with a F32T8 rapidstart fluorescent lamp. The conversion chart provides the footcandles for T5 and T8 high output fluorescent lamps. The grid is 6". To calculate the footcandles for each iso curve for the high output lamps, use the multipliers in the chart. The lamp lengths available for each type of lamp are not necessarily consistent. For longer lengths, use the centerline values until nearing the ends. Adjustment of the reflector will change the values indicated. IES format photometric files are available.

#### **Catalog Number**

17W, 25W, 32W, 40W, or 59W T8 fluorescent 44W, 55W, 65W, or 86W T8 high output fluorescent

24W, 39W, or 54W T5 high output fluorescent

SL- (Housing length) -T5H0 Notes: 1. Housing length must be at least 3½" more than the nominal lamp length. Example: SL-391/2" is minimum for 36" F25T8 lamp.

2. Maximum continuous housing length is 20'-0" (6100mm)

#### **Options**

Alternate Arms: Provide detail. To specify, add suffix -ARM.

#### **Alternate Painted Finishes:**

Black, add suffix -BLK.

Medium bronze, add suffix -MBZ.

White, add suffix -WHT.

Other color, add suffix -SP/ (color).

#### Ballasts:

277V ballast. To specify, add suffix -277. 347V ballast. To specify, add suffix -347.

Brushed Natural Finish: Clear anodized. To

specify, add suffix -BNF.

SL- (Housing length)

SL- (Housing length) -T8H0

Weatherproof: Only with lamp above lens. To specify, add suffix -W.

#### **Commercial Applications** Signlighter

#### SL SERIES

#### **Specifications**

#### Construction

· Fixture housing is extruded aluminum; maximum continuous length is 20'-0" • Finish is metallic aluminum polyester coating. Other finishes are available. • Lens is clear acrylic with linear prisms . Reflector is adjustable for vertical light distribution . Suitable for wet locations with lamp above lens . ETL/cETL listed

#### Electrical

• Fixture is wired for T8 rapid-start or T8 or T5 high output fluorescent lamp(s), available in various lengths, as required . Remote ballast is standard electronic 120V-277V (347V optional). Connecting flexible conduit not included.

#### Mounting

· Brackets mount with two screws (not included). • Left bracket to be mounted over conduit flush with wall, unless otherwise specified

Remote ballast to be within 18' of lamp

#### **How to Specify**

- 1. Select catalog number and add length required.
- 2. Add suffix(es) for desired options.



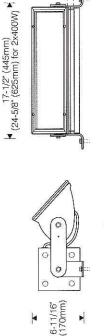
C. W. Cole & Company, Inc. 2560 N. Rosemead Boulevard South El Monte, CA 91733-1593

Fax (626) 443-9253 Tel. (626) 443-2473 info@colelighting.com www.colelighting.com



Styl

## S Mount: Low Profile Position 1:12 Scale



• 14-3/8" (365mm)

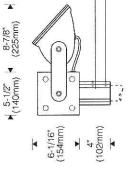
1:12 Scale

S Mount: Upright Position

20-1/4" (514mm) (27-5/16" (694mm) for 2x400W)

•

## F Mount: Slipfitter

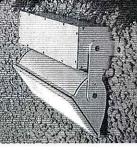


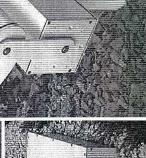
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W Mount (shown mounted on ceiling)

00

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plate, see page U-12.

8-9/16" (217mm)

diagram of

mounting

0

.

-or dimen-

O 0 0

0

12-1/2" (318mm)

O ΣZ

0 0

(146mm)

5-3/4" 4

0

0

3-1/4" (83mm)

0

3-9/16" (90mm)

sioned

## Features

■ Low unobtrusive profile - up to 2x400W metal halide, HPS

Internal splice compartment with (2) 1/2" NPT entries (5 mount only)

Z

Aluminum mounting feet

For 1000W metal halide, consult factory.

18-1/4" (464mm) mounting (25-5/16" (643mm) for 2x400W)

8-9/16" (217mm)

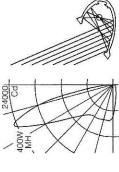
Aluminum reveal

¥

- distribution allows closer setbacks, greater spacings Unequaled asymmetric performance with wide lateral
- Design flexibility adjustable sidearms, choice of mountings
  - Durable aluminum construction extruded reflector, door frame and ballast housing; die-cast end plates

## Performance

vertical plane from one edge. An elliptical section redirects its light to a parabola and shields the lamp. Asymmetry is surface uniformity. The fast "runback" minimizes glare and spill light. Wide lateral distribution permits greater spacings. Two parabolic reflector sections drive light up (or down) the maximized resulting in high beam efficiency and superior surface uniformity. The fast "runback" minimizes glare and



For complete photometrics, visit www.elliptipar.com.

eliptipar

## Specifications

- Precured silicone door aluminum door frame Mitred extruded 4 Ω
- captive door screws Tamper-resistant Δ ш and lens gasket
  - Die-cast end plates Aluminum sidearms Locking set screws OΞ ш

Cast end plates

and impact resistant, tempered glass lens Clear, flat, thermal

- Specular extruded plates (black) Σ \_
- Extruded ballast housing aluminum reflector
- 4
- Stainless steel latch/hinge Aluminum slipfitter for 2-3/8" O.D. pipe or tenon mounting plate (black) 0

Metal halide - position oriented mogul lampholder for use with either POMB horizontal or universal position lamp (medium base for 175W). Rotating bracket allows horizontal lamp to be locked in proper position after aiming (hinged lampholders for 2x400W are fixed in position to light up a vertical surface). End-of-lamp aligner ensures consistent optical performance. Ballast - integral HPF constant wattage autotransformer (CWA) rated for -20°F/-29°C starting (high reactance autotransformer (HX-HPF) for 150W HPS). Use 90°C wire for supply connections. Leads exit reflector and enter ballast housing through watertight flush cord entries and silicone coated fiberglass sleeving. F mount - 10" (254mm) leads within slipfitter for splicing inside HPS - pulse rated mogul lampholder (medium base for 150W). conduit or tenon. For poles higher than 8', specify 0S option. \$ mount - two 1/2" NPT entries (conduit, fittings by others).

Door secured with captive tamper-resistant (#10 Torx) screws in stainless steel threaded reflector inserts to prevent seizing.

Reflector and internal end plates - extruded high purity aluminum with clear anodized specular finish. All hardware and components - non corrosive stainless steel or aluminum.

Exterior surfaces - 6 stage pretreatment and electrostatically

applied thermoset polyester powder coating for a durable abrasion, fade and corrosion resistant finish. Choice of

semi-gloss colors (see ordering information)

Standard:

W mount - latch/hinge mounting plate fastens over recessed outlet box and allows hands free access to splices. For wall or ceiling only; suitable backing structure required (by others)

tenon (by others)

**S** mount - L-shaped mounting feet attach under sidearms. 13/32" dia. (10mm) clearance holes (3/8" fasteners by others). F mount - slipfitter mounts over 2-3/8" O.D. stanchion, pole or

Mounting: Sidearms can be rotated 90° in the field to position the reflector above or to the side of the ballast housing.

UL listed or CSA certified for wet locations.
When ceiling mounting with reflector positioned adjacent to ceiling, mount to non-combustible surface only.

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## 1 Source

- M = Metal halideH = High pressur
- High pressure sodium

#### N Style

454 = Large outdoor, integral ballast

#### W Lamp

The second secon	Committee of the Commit	The state of the s		The property of the same
CWA	A B H	(2) MH400/HOR	240V <sup>+</sup> 2x400 <sup>+</sup>	240V <sup>+</sup>
CWA	A,B,H	MH400/HOR	400	0400
CWA	A.B.H	MH250/HOR	250	0250
CWA	ABH	MH175/U/MED	175	0175
			ide*	Metal Halide*
Ballast	Voltage(s)	Lamp Number	Wattage	Lamp Code

- C	) <	•			
2400	0400	0250	0150	High Pre	THE STREET STREET
2×400	400	250	150	High Pressure Sodium	
(2) 1 11400	LU400	LU250	LU150/MED	um	
ABH	A,B,H	A,B,H	A,B,H		121111
CWA	CWA	CWA	HX-HPF		

CWA	ABH	(2) LU400	2×400	2400
CWA	A, B, H	LU400	400	0400
CWA	A,B,H	LU250	250	0250
HX-HPF	A,B,H	LU150/MED	150	0150

Use clear metal halide horizontal or universal position lamp with compact envelope. 250 and 400W lamps are horizontal position oriented mogul base (POMB) that yield higher light output than universal position lamps. Standard lamp colors are 4000K for 175W and 3200K for 250 and 400W. For complete lamp and ballast information, see Accessories Section.

are hinged and fixed in position to light up a vertical surface ( $\pm 15^{\circ}$ ) To light down a vertical surface, consult local sales representative. 2x400W metal halide uses position oriented mogul lampholders that For 1000W metal halide with integral ballast, consult factory

### 5 Finish

02 = Semi-gloss white 06 = Dark bronze 07 = Silver 08 = Semi-gloss black 12 = Green

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- color to be specified, consult sales computer matched

#### 0) Voltage

- II 120V 277V
- IMP II II 347V

## **Option** (See Accessories Section for specifications)

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2x400W HID

- No options
   F mount with slipfitter for mounting on pole higher than
   8' (2.4m). Supplied with 30' (9m) wire leads.
- TL = Micro-prismatic tempered glass lens (replaces clear flat lens), offers smoother light pattern at reduced peak candlepower.
- ×= For modification not listed, include detailed description Consult factory prior to specification.

#### 00 Standard

- UL, Underwriters Laboratories
- И CSA, Canadian Standards Association

### Example

## M454 - 0250 - S - 02 - H - 00J

Large outdoor model for use with 250W metal halide lamp. Surface mounted with L-shaped feet. Internal splice compartment (liquidtight conduit and fittings by others). Semi-gloss white powder coat finish. Integral 347V ballast. CSA.

- Custom RAL or

### 11 representative.

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**0D0** = External vertical blade **baffle**, black

for lengthwise shielding

II

150W-400W HID

4 = 45° 2 = 25° shielding Order separately. See Accessories Section for specifications.

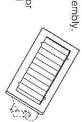
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**AXF** = Wet location **color filter** assembly, Not suitable for all lamp wattages. Consult factory for complete specifications and stripped color glass. interchangable frame with

ordering information.



AFK000X 0 = ULJ = CSA= Ballast fuse kit

## Mounting

- Slipfitter for 2-3/8" O.D. stanchion, pole or tenon. For poles higher than 8' (2.4m), specify **0S** option code.
- S L-shaped feet for surface mounting. Internal splice compartment with (2) 1/2" NPT threaded entries.
- ¥ = Latch/hinge mounting plate fastens over recessed outlet box. Wall or ceiling mounting only.
- Note: When mounting on ceiling with reflector positioned adjacent to ceiling, mount to non-combustible surface only.

## elliptipar

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