

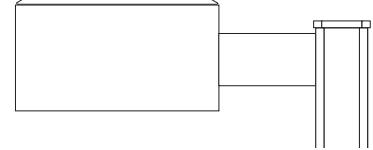
Notes:

Job:

Type:

FORM 10 SQUARE

EH/H/HT ARM MOUNT



GENERAL DESCRIPTION: The Gardco arm mounted Square Form 10 products are cutoff luminaires for high intensity discharge lamps up to 1000 watts. The EH units are manufactured from mitered extruded aluminum and finished in an Architectural Class 1 anodizing. The H and HT style luminaires are dieformed aluminum with a thermoset polyester finish. Both products can accept one of six (6) interchangeable and rotatable precision segmented optical systems.

CUTOFF PERFORMANCE: Flat glass lens luminaires provide full cutoff performance. Sag Lens luminaires provide cutoff performance.

ORDERING

PREFIX	CONFIGURATION	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Enter the order code into the appropriate box above. Note: Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX

EH14	14" Square Extruded Luminaire
EH19	19" Square Extruded Luminaire
H14	14" Square Fabricated Luminaire
H19	19" Square Fabricated Luminaire
HT19	19" Tall Square Fabricated Luminaire
H26	26" Square Fabricated Luminaire

CONFIGURATION

1	Single Assembly	3@120	Triple at 120°
2	Twin Assembly	4	Quad Assembly
2@90	Twin Assembly at 90°		
3	Triple at 90°		

DISTRIBUTION

Horizontal Lamp

1	Type I
3	Type III
4X^{1,2}	Type IV (19/T19 only)
FM	Type IV
Q	Type V

1. 19" and T19" luminaires, 400w and below are supplied with flat glass lens standard. For wattages above 400w, "XF" flat lens is supplied standard.

2. MH/PSMH 400w Type 4X luminaires require the E28/BT28 reduced jacket lamp.

Vertical Lamp

VS	Type V
<i>In 400w and below, luminaires are supplied with an acrylic sag lens. A glass sag lens is supplied with luminaires above 400w and with 26" luminaires. Medium base, 200w max on 14" units.</i>	

WATTAGE

14"	19"	T19"	26"	
100MH³	250MH	750PSMH⁶	1000MH	3. Medium base lamp
150MH³	400MH	875PSMH		4. Available with vertical lamp optics only.
175MH			750PSMH⁷	5. Operates 55V lamp.
200MH	250PSMH	750HPS	1000PSMH⁷	6. M149 only. Horizontal optics require MS750/PS/BU/HOR/BT37 lamp.
250MH³	320PSMH⁷			7. Requires E28/BT28 lamp.
	350PSMH⁷		750HPS	8. Available with horizontal lamp optics only.
	400PSMH		1000HPS	
	450PSMH⁷			
175PSMH⁴				
100HPS				
150HPS⁵	250HPS			
	400HPS			

MH	Metal Halide
PSMH	Pulse Start Metal Halide
HPS	High Pressure Sodium

VOLTAGE

120	240	347	QUAD
208	277	480	120/208/240/277, Factory tied to 277V.

FINISH

EH and H26

BLA	Black Anodized
BRA	Bronze Anodized
NA	Natural Aluminum Anodized
OC	Optional Color Paint <i>Specify RAL designation ex: OC-RAL7024.</i>
SC	Special Color Paint <i>Specify. Must supply color chip.</i>

H/HT Style

BRP	Bronze Paint
BLP	Black Paint
OC	Optional Color Paint <i>Specify RAL designation ex: OC-RAL7024.</i>
SC	Special Color Paint <i>Specify. Must supply color chip.</i>

OPTIONS

F	Fusing <i>In Head</i>	CD	Clear Drop Diffuser <i>EH Style only</i>
LF	In-Line/In-Pole Fusing	MF	Mast Arm Fitter
PC	Photocontrol and Receptacle <i>N/A with 480V.</i>	MU	10° Uptilt Bracket
PCR	Photocontrol Receptacle only	UB	Quick Disconnect for Ballast Tray
POLY	Polycarbonate Sag Lens <i>In lieu of flat glass. N/A with 4X optics. 450w max.</i>	AP	Adjustable Knuckle - Pole Mount <i>Only available with 1 way and 2 @ 180° mounting</i>
HS	Internal Houseside Shield <i>Supplied standard with FM optics.</i>	AT	Adjustable Knuckle - Tenon Mount <i>Fits 2 3/8" tenon. N/A with 14" units</i>
QS	Quartz Standby	PTF2	Pole Top Fitter - 2 3/8" - 3" Dia. Tenon
QST	Quartz Standby - Timed Delay	PTF3	Pole Top Fitter - 3" - 3 1/2" Dia. Tenon
XF	Extended Flat Glass Lens <i>Flat Glass lens with extended drop. Allows for the use of a larger lamp while providing full cutoff performance. Supplied standard with T19 units with 4X optics above 400w.</i>	PTF4	Pole Top Fitter - 3 1/2" - 4" Dia. Tenon
SG	Sag Glass Lens <i>In lieu of flat glass</i> <i>Supplied standard with 26" VS</i>		

Gardco Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program. The 4X optical system is protected by U.S. patent number 5690422.

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FORM 10 SQUARE

EH/H/HT ARM MOUNT

SPECIFICATIONS

GENERAL: Each Gardco Square Form 10 arm mount is a cutoff luminaire for high intensity discharge lamps. Units are designed with half-cube proportions. Internal components are totally enclosed, rain-tight, dust-tight and corrosion resistant. No venting of optical system or electrical components is required or permitted. Luminaires are completely assembled with no disassembly required for installation. Lamping requires no lifting or hinging of the luminaire housing, disturbing wiring or exposing uninsulated live parts.

HOUSING: Extruded housings (EH style) are offered in 14" (35.56 cm) and 19" (48.26 cm) sizes and are composed of precisely mitered anodized aluminum extrusions. Fabricated (H style) units are available in 14" (35.56 cm), 19" (48.26 cm), T19" (48.26 cm) and 26" (66.04 cm) sizes and are one piece, multi-formed aluminum with an integral reinforcing spline and a single concealed joint. Pressure injected silicone provides a continuous weathertight seal at all miters and points of material transition.

ARM: Extruded aluminum arm is prewired and secured to fixture by contractor. Assembly is suitable for mounting to pole without requiring access to luminaire.

LENS: Mitered, extruded anodized aluminum door frame retains the optically clear, heat and impact resistant tempered flat glass in a sealed manner using hollow section, high compliance, memory retentive extruded silicone rubber. 26" VS Luminaires feature a sag glass lens. In 400w and below, Type VS luminaires are supplied with an acrylic sag lens. A glass sag lens is supplied with Type VS luminaires above 400w. Concealed stainless steel latch and hinge permit easy toolless access to the luminaire.

OPTICAL SYSTEMS: The segmented Form 10 optical system is homogeneous sheet aluminum, electrochemically brightened, anodized and sealed. The segmented reflectors are set in faceted arc tube image duplicator patterns to achieve IES Types I (1), III (3), IV (FM and 4X), and V (Q - horizontal lamp and VS - vertical lamp) distributions. The mogul lampholder is glazed porcelain with a nickel plated screw shell with lamp grip - all securely attached to the reflector assembly. 100MH units have medium base lampholder. All Metal Halide units in the 19" and 26" housings have lamp stabilizers ensuring precise arc tube positioning.

ELECTRICAL: Each high power factor ballast is the separate component type, capable of providing reliable lamp starting down to -20°F/-29°C. The ballast is mounted on a unitized tray and secured within the luminaire, above the reflector system. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600 VAC at 301°F/150°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher.

FINISH: Extruded housings (EH style) are standard with natural, bronze, or black Aluminum Association Architectural Class I anodized finish. Special color polyester finishes are available.

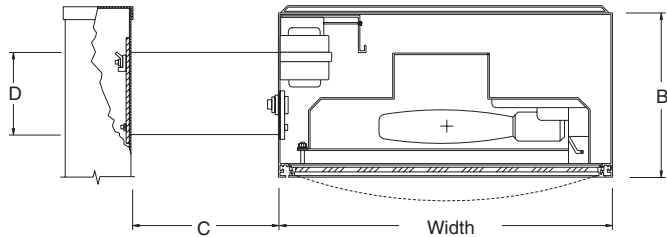
Formed housings (H style) are standard with a chromatic acid pretreatment and an epoxy undercoat. The finish coat is a thermosetting polyester baked at 450°F/232°C to achieve an H-2H hardness measure. 26" H style units are also offered with optional Architectural Class I anodized finish.

LABELS: All luminaires bear UL or CUL (where applicable) Wet Location labels.

FULL CUTOFF PERFORMANCE: Full cutoff performance means a luminaire distribution where zero candela intensity occurs at an angle of 90° above nadir. Additionally, the candela per 1000 lamp lumens does not numerically exceed 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

CUTOFF PERFORMANCE: Cutoff performance means a luminaire distribution where the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle at or above 90° above nadir, and 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

DIMENSIONS



Size	Width	B	C 1-2 way	C 3-4 way	D
EH14	14"	7"	6"	6"	5"
	35.56 cm	17.78 cm	15.24 cm	15.24 cm	12.70 cm
H14	14"	7"	2"	6"	5"
	35.56 cm	17.78 cm	5.08 cm	15.24 cm	12.70 cm
EH19	19"	10"	9"	9"	5"
	48.26 cm	25.40 cm	22.86 cm	22.86 cm	12.70 cm
H19	19"	10"	2"	9"	5"
	48.26 cm	25.40 cm	5.08 cm	22.86 cm	12.70 cm
T19	19"	12"	2"	9"	5"
	48.26 cm	30.48 cm	5.08 cm	22.86 cm	12.70 cm
26	26"	12"	12"	12"	8"
	66.04 cm	30.48 cm	30.48 cm	30.48 cm	20.32 cm

Size	EPA's			Approximate Weight		
	Single	Twin	3/4	Single	Twin	Quad
14	1.1 ft ²	2.3 ft ²	2.9 ft ²	30 lbs	60 lbs	120 lbs
	.10 m ²	.21 m ²	.27 m ²	13.61 kg	27.22 kg	54.43 kg
19	2.1 ft ²	4.0 ft ²	5.5 ft ²	55 lbs	110 lbs	220 lbs
	.20 m ²	.37 m ²	.51 m ²	24.95 kg	49.90 kg	99.79 kg
T19	2.2 ft ²	4.3 ft ²	6.4 ft ²	65 lbs	130 lbs	260 lbs
	.20 m ²	.40 m ²	.59 m ²	29.48 kg	58.97 kg	117.93 kg
26	3.5 ft ²	7.0 ft ²	8.9 ft ²	95 lbs	190 lbs	380 lbs
	.33 m ²	.65 m ²	.83 m ²	43.09 kg	86.18 kg	172.37 kg

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