

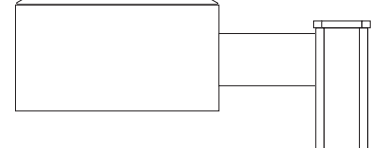
Notes:

Job:

Type:

FORM 10 SQUARE

EH/H/HT ARM MOUNT



GENERAL DESCRIPTION: The Gardco arm mounted Square Form 10 products are sharp 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 eight (8) interchangeable and rotatable precision segmented optical systems.

ORDERING

Flat glass lens luminaires meet IESNA Full Cutoff criteria. Sag Lens luminaires meet IESNA Cutoff criteria.

PREFIX	CONFIGURATION	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS

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	18" 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	Type IV (19/T19 only)
FM	Type IV
Q	Type V

Type 4X optics supplied with sag glass lens standard.

Vertical Lamp

VS Type V

14" and 19" supplied with acrylic sag lens. 26" supplied with sag glass lens. Medium base, 200w max on 14" units.

FC3V* Full Cutoff Type III

FCVS* Full Cutoff Type V

*19" 320PSMH only. Supplied w/MS320/BU/ED28/LLC/PS lamp

WATTAGE

14"	19"	T19"	26"	
100MH ¹	250MH	750PSMH ²	1000MH	1. Medium base lamp
150MH ¹	400MH	875PSMH ²		2. Available with vertical lamp optics only.
175MH			750PSMH ³	3. Operates 55V lamp.
200MH	250PSMH ⁴	750HPS	1000PSMH ³	4. M138 or M153.
250MH ⁵	320PSMH ⁶			5. M132 or M154
	350PSMH		750HPS	6. M135 or M155
175PSMH ^{2,7}	400PSMH ⁸		1000HPS	7. M137 or M152
	450PSMH ⁹			8. Available with Horizontal optics only.
100HPS				9. M149 only. Horizontal optics require MS750/PS/BU/HOR/BT37 lamp
150HPS ¹	250HPS			10. Requires Sag Glass Lens.
	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 Specify RAL designation ex: OC-RAL7024
SC	Special Color Paint Specify. Must supply color chip.

H/HT Style

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

OPTIONS

F	Fusing In Head	CD	Clear Drop Diffuser EH Style only
LF	In-Line/In-Pole Fusing	MF	Mast Arm Fitter
PC	Photocontrol and Receptacle N/A with 480V.	MU	10° Uptilt Bracket
PCR	Photocontrol Receptacle only	UB	Quick Disconnect for Ballast Tray
POLY	Polycarbonate Sag Lens In lieu of flat glass. N/A with 4X optics. 450w maximum.	AP	Adjustable Knuckle - Pole Mount Only available with 1 way and 2 @ 180° mounting
HS	Internal Houseside Shield Supplied standard with FM optics.	AT	Adjustable Knuckle - Tenon Mount Fits 2 3/8" tenon. N/A with 14" units
QS	Quartz Standby	PTF2	Pole Top Fitter - 2 3/8" Dia. Tenon
SG	Sag Glass Lens In lieu of flat glass Supplied standard with 4X optics and 26" VS	PTF3	Pole Top Fitter - 3-3 1/2" Dia. Tenon
		PTF4	Pole Top Fitter - 3 1/2-4" Dia. Tenon

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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Genlyte Group

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FORM 10 SQUARE

EH/H/HT ARM MOUNT

SPECIFICATIONS

GENERAL: Each Gardco Square Form 10 arm mount is a sharp 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. Luminaires with Type 4X optics and 26" VS units feature a sag glass lens and VS unit employs sag acrylic lens. 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 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.

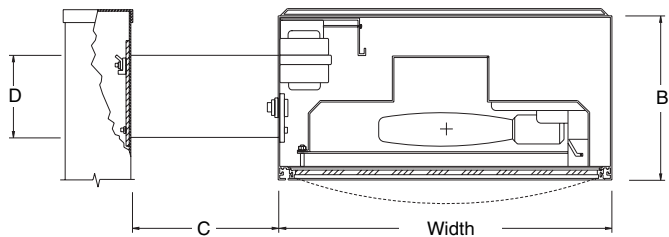
ELECTRICAL: Each high power factor ballast is the separate component type, capable of providing reliable lamp starting down to -20°F/-29°C. The ballast is mounted on a unitized tray and secured within the luminaire, above the reflector system. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600 VAC at 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 fixtures bear UL or CUL (where applicable) Wet Location labels.

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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