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Job:

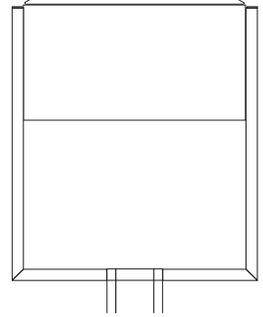
Type:

FORM 10 SQUARE

JEH/JH POST TOP MOUNT

GENERAL DESCRIPTION: The Gardco post-top yoke mounted Form 10 products are sharp cutoff luminaires for high intensity discharge lamps up to 1000 watts. JEH units are manufactured from mitered extruded aluminum and finished in an Architectural Class 1 anodizing. The JH luminaires are dieformed aluminum with a thermoset polyester finish. Both products feature a choice of six (6) interchangeable 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
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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

JEH14	14" Square Extruded Luminaire
JEH19	19" Square Extruded Luminaire
JH14	14" Square Fabricated Luminaire
JH19	19" Square Fabricated Luminaire
JH26	26" Square Fabricated Luminaire

Luminaires furnished with Gardco poles will be supplied with a square fitter for square aluminum or steel poles or a round fitter for round poles. Luminaires furnished for use with poles by others will be supplied with a 5" O.D. fitter for a 4" X 6" tenon or a 3.5" O.D. fitter for a 2 3/8" tenon. Specify when ordering.

CONFIGURATION

1 Single Assembly

DISTRIBUTION

Horizontal Lamp

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

Vertical Lamp

VS	Type V
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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.

1. 19", 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.

WATTAGE

14"	19"	26"
100MH³	250MH	1000MH
150MH³	400MH	
175MH		750PSMH⁵
200MH	250PSMH	1000PSMH⁵
250MH³	320PSMH⁷	750HPS
	350PSMH⁷	1000HPS
175PSMH⁴	400PSMH	
	450PSMH⁴	
100HPS	250HPS	
150HPS⁴	400HPS	

3. Medium base lamp.
4. Available with vertical lamp optics only.
5. M149 only. Horizontal optics require MS750/PS/BU/HOR/BT37 lamp.
6. Horizontal optics only.
7. Requires E28/BT28 lamp.

VOLTAGE

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

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

FINISH

JEH and JH26

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.

JH 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	QS	Quartz Standby
LF	In-Line/In-Pole Fusing	QST	Quartz Standby - Timed Delay
PC	Photocontrol and Receptacle N/A with 480V.	CD	Clear Drop Diffuser JEH Style only.
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.	HS	Internal Houseside Shield Supplied standard with FM optics.
XF	Extended Flat Glass Lens Flat Glass lens with extended drop. Allows for the use of a larger lamp while providing full cutoff performance.		
SG	Sag Glass Lens In lieu of flat glass Supplied standard with 26" VS		

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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79115-45/0607

FORM 10 SQUARE

JEH/JH POST TOP MOUNT

SPECIFICATIONS

GENERAL: Each Gardco Square Form Ten is a cutoff luminaire for high intensity discharge lamps. Yoke style units feature a co-axial yoke mounting which supports the luminaire above the pole. Internal components are totally enclosed, rain-tight, dust-tight and corrosion resistant. No venting of optical system or electrical components is required or permitted. Lamping requires no lifting or hinging the luminaire housing, disturbing wiring or exposing uninsulated live parts.

HOUSING: Extruded housings (JEH style) are offered in 14" and 19" sizes and are composed of precisely mitered anodized aluminum extrusions. Fabricated (JH style) units are available in 14", 19" and 26" sizes and are one piece, multi-formed aluminum with an integral reinforcing spline and a single concealed joint. Tops for 19" fabricated units are die cast aluminum and mechanically fastened to the housing sides. Tops are press-formed with a resumed perimeter flange which are internally welded with the housing sides. Pressure injected silicone provides a continuous weathertight seal at all miters and points of material transition.

YOKE: The co-axial fitter-yoke assembly is fabricated from extruded rectangular aluminum tubing with welded mitered corners. The yoke-to-pole fitter is designed and manufactured specifically for the pole, ensuring transitions are clean and continuous.

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 Ten 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, 4X), and V (Q - horizontal lamp and VS - vertical lamp) distributions. The mogul base lampholder is glazed porcelain with a nickel plated screw shell with lamp grip - all securely attached to the reflector assembly. 100 MH units have medium base lampholder. All horizontal 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 (JEH style) are standard with natural, bronze, or black Aluminum Association Architectural Class I anodized finish applied after fabrication. Special color polyurethane finishes are available.

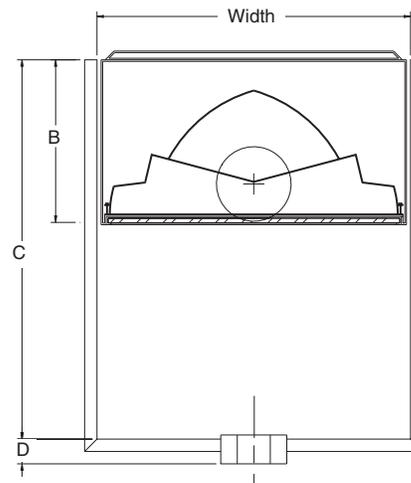
Formed housings (JH style) are standard with a chromate acid pretreatment and an epoxy undercoat. The finish coat is a thermosetting polyester baked at 450°F/232°C to achieve an H-2H hardness measure. 26" JH style units are also offered with optional architectural Class I anodized finish.

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	D	EPA
14	14"	7"	17"	1.5"	1.4 ft²
	35.56 cm	17.78 cm	43.18 cm	3.81 cm	.13 m²
19	19"	10"	23"	1.5"	2.5 ft²
	48.26 cm	25.40 cm	58.42 cm	3.81 cm	.23 m²
T19	19"	12"	23"	1.5"	2.5 ft²
	48.26 cm	30.48 cm	58.42 cm	3.81 cm	.23 m²
26	26"	12"	27"	1.5"	2.8 ft²
	66.04 cm	30.48 cm	68.58 cm	3.81 cm	.26 m²

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