

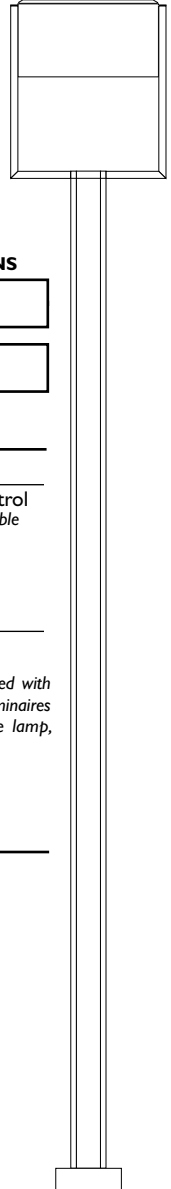
Job:
Type:
Notes:



Form 10 Square

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 I anodizing. The JH luminaires are dieformed aluminum with a thermoset polyester finish. Both products feature a choice of seven (7) interchangeable rotatable precision segmented optical systems.

Flat glass lens luminaires provide full cutoff performance. Sag Lens luminaires provide cutoff performance.



PREFIX	MOUNTING	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

MOUNTING

I	Single Assembly
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.	

DISTRIBUTION

Horizontal Lamp			
1	Type I	BLC²	Backlight Control 19" or T19" only. Not available above 400 watts.
3	Type III		
4X^{1,2}	Type IV		
FM	Type IV	Q	Type V
Vertical Lamp			
VS	Type V		

1. Type 4X available in 19" and T19" luminaires only. Type 4X luminaires, 400W and below, are supplied with flat glass lens standard. For Type 4X luminaires above 400W, the "XF" extended flat lens is supplied standard.
2. MH/PSMH 400W Type 4X and BLC luminaires require the E28/BT28 reduced jacket lamp.

In 400W and below, vertical lamp luminaires are supplied with an acrylic sag lens. A glass sag lens is supplied with luminaires above 400W and with 26" luminaires. Medium base lamp, 200W max on 14" units.

WATTAGE

	JEH / JH 14"	JEH / JH 19"	JH 26"
Pulse Start MH Magnetic Ballast	100MH ³ 150MH ³ 175PSMH [ⓔ] 200MH [ⓔ]	250PSMH [ⓔ] 250PS90** [ⓔ] 320PSMH ⁷ [ⓔ] 350PSMH ⁷ [ⓔ]	400PSMH ² [ⓔ] 450PSMH ⁴ [ⓔ] 750PSMH ⁴ 875PSMH ⁴ 1000PSMH ⁴
CosmoPolis™ Electronic System (See Notes 5, 6, 9)	60CMPE 90CMPE 140CMPE		
MasterColor® Elite Electronic System (See Notes 5, 6, 9, 10)		210MCE-3K [ⓔ] 210MCE-4K [ⓔ]	315MCE-3K [ⓔ] 315MCE-4K [ⓔ]
Pulse Start MH Electronic Ballast		250PSE ^{5,6} [ⓔ]	320PSE ^{5,6,7} [ⓔ]
Standard (probe start) MH Magnetic Ballast*	175MH* 250MH* ⁸	250MH* 400MH* ²	1000MH
High Pressure Sodium Magnetic Ballast	70HPS 100HPS 150HPS	200HPS 250HPS 400HPS	750HPS 1000HPS

VOLTAGE

120	200-277
208	CMPE, MCE and PSE types only.
240	
277	QUAD
347	120/208/240/277 wired to 277V.
480	

* 175W, 250W and 400W probe start MH luminaires are not available for sale in the United States.
** 250PS90 includes a 90% efficient magnetic PSMH ballast, meeting requirements of California Title 20, effective 1/1/2010.

(E) Wattages marked with Circle "E" meet federal energy efficiency standards applicable to 150 watt through 500 watt metal halide luminaires only.

2. MH/PSMH 400W Type 4X and BLC luminaires require the E28/BT28 reduced jacket lamp.
3. Medium base lamp.
4. Available with vertical lamp optics only.
5. UL Listed at 40°C ambient.
6. Available 120V, 200-277V, 347V or 480V only.
7. Requires E28/BT28 lamp.
8. Available with horizontal lamp optics only.
9. CosmoPolis™ and MasterColor® Elite systems are supplied with lamp.
10. "-3K" suffix specifies a 3000°K lamp and "-4K" suffix specifies a 4000°K lamp.

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Form I0 Square

JEH / JH / Post Top Mount

FINISH

JEH14, JEH19 and JH26

- BRA** Bronze Anodized
- BLA** Black Anodized
- NA** Natural Anodized
- OC** Optional Color Paint
Specify Optional Color or
RAL ex: OC-LGP or OC-RAL7024.
- SC** Special Paint
Specify. Must supply color chip.

JH14, JH19 and JH26

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

OPTIONS

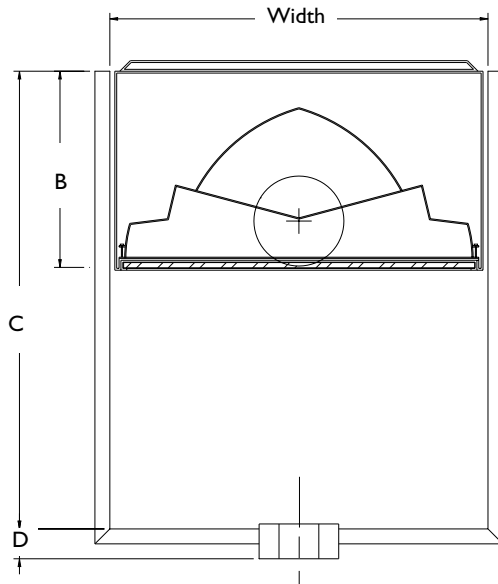
- F⁹** Fusing In Head
- LF** In-Line/In-Pole Fusing
- PC⁹** Photocontrol and Receptacle
- PCR** Photocontrol Receptacle only
- POLY¹⁰** Polycarbonate Sag Lens
- HS¹¹** Internal Houseside Shield
- QS¹²** Quartz Standby
- QST¹²** Quartz Standby - Timed Delay
- Q924¹²** Quartz Emergency
- QT924¹²** Quartz Emergency - Timed Delay
- XF¹³** Extended Flat Glass Lens
- SG¹⁴** Sag Glass Lens
- CD** Clear Drop Diffuser JEH Style only.
- UB** Quick Disconnect for Ballast Tray

- GMR¹⁵** Provision for Gardco Motion Response
- L6¹⁶** LumiStep™ Ballast 6 hour
- L8¹⁶** LumiStep™ Ballast 8 hour
- L10¹⁶** LumiStep™ Ballast 10 hour

(Note 12) QS / Q924 Table	
HID Lamp Watts	Maximum Quartz Lamp Watts
175 watts or less	100 Watts
Above 175 watts up to 400 watts	150 Watts
14" luminaires limited to 100 watt quartz lamp maximum regardless of HID wattage. QS, QST, Q924 and QT924 options are not available in luminaires above 400 watt HID.	

- 9. Not available in 480V. Specific input voltage required.
- 10. In lieu of flat glass. Not available with 4X optics. 450W maximum. Polycarbonate lenses carry 1 year warranty only.
- 11. Supplied standard with FM optics.
- 12. See QS/Q924 Table.
- 13. Flat Glass lens with extended drop. Available with 19" and T19" housings only. Allows use of a larger lamp while providing full cutoff performance. Supplied standard with T19" units with 4X optics above 400W.
- 14. In lieu of flat glass. Supplied standard with 26" VS.
- 15. Available only with 14" 175PSMH or 150HPS and 19" 250PSMH through 400PSMH or 250HPS through 400HPS wattages. Includes dual-level capacitor and wiring to connect to Gardco Motion Response System.
- 16. Available with CosmoPolis™ system only. See submittal sheet GE200-005 for complete information on LumiStep™ ballasts.

DIMENSIONS AND EPA



Size	Width	B	C	D	EPA
14	14"	7"	17"	1.5"	1.4 ft ²
	35.56 cm	17.78 cm	43.18 cm	3.81 cm	.13 m ²
19	19"	10"	23"	1.5"	2.5 ft ²
	48.26 cm	25.40 cm	58.42 cm	3.81 cm	.23 m ²
26	26"	12"	27"	1.5"	2.8 ft ²
	66.04 cm	30.48 cm	68.58 cm	3.81 cm	.26 m ²

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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 400 watts. 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, BLC, 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 and 150MH 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: All electrical components are UL recognized and factory tested. Electronic and magnetic HID ballasts are high power factor and mounted on a unitized plate. Magnetic HID ballasts are the separate component type. Electronic and magnetic HID ballasts are capable of providing reliable lamp starting down to -20°F / -29°C.

Luminaires provided with the CosmoPolis™ or MasterColor® Elite high performance ceramic metal halide electronic systems include high power factor electronic ballasts, designed specifically for the system selected.

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. 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.

WARRANTY: Gardco luminaires feature a 5 year limited warranty. See Warranty Information on www.sitelighting.com for complete details and exclusions. Polycarbonate lenses carry a 1 year warranty only.

FULL CUTOFF PERFORMANCE: Full cutoff performance means a luminaire distribution where zero candela intensity occurs at an angle at or above 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.

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