

The Gardco arm mounted Square Form 10 products are cutoff luminaires for high intensity discharge lamps up to 400 watts. The EH units are manufactured from mitered extruded aluminum and finished in an Architectural Class 1 anodizing. Can accept one of seven (7) interchangeable and rotatable precision segmented optical systems. Flat glass lens luminaires provide full cutoff performance. Sag Lens luminaires provide cutoff performance.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

Ordering Guide

example: EH14-1-1-100MH-120-BRP-F

Prefix	Mounting	Distribution	Wattage			
				EH14"	EH19"	
EH14 14" Square Extruded Luminaire EH19 19" Square Extruded Luminaire	<b>1</b> Single Pole Mount at 180° <b>2</b> Twin Pole Mount at 90° <b>2@90</b> Twin Pole Mount at 90° <b>3</b> 3-way Pole Mount at 90° <b>3@120°</b> 3-way Pole Mount at 120° <b>4</b> 4-way Pole Mount	<b>Horizontal Lamp</b> <b>1</b> Type I <b>3</b> Type III <b>4X<sup>1,2</sup></b> Type IV <b>FM</b> Type IV <b>BLC<sup>2</sup></b> Backlight Control 19" only. <b>Q</b> Type V  <b>Vertical Lamp</b> <b>VS</b> Type V <i>In 400W and below, vertical lamp luminaires are supplied with an acrylic sag lens. Medium base lamp, 200W max on 14" units.</i>	Pulse Start MH Magnetic Ballast	<b>100MH<sup>3(E)</sup></b> <b>175PSMH<sup>(E)</sup></b> <b>200MH<sup>(E)</sup></b>	<b>250PSMH<sup>(E)</sup></b> <b>250PS90<sup>11(E)</sup></b> <b>320PSMH<sup>7(E)</sup></b> <b>350PSMH<sup>7(E)</sup></b>  <b>210MCE-3K<sup>(E)</sup></b> <b>210MCE-4K<sup>(E)</sup></b>	<b>400PSMH<sup>2(E)</sup></b>   <b>315MCE-3K<sup>(E)</sup></b> <b>315MCE-4K<sup>(E)</sup></b>
			MasterColor Elite Electronic System (See Notes 5, 6, 9,10)		<b>210MCE-3K<sup>(E)</sup></b> <b>210MCE-4K<sup>(E)</sup></b>	<b>315MCE-3K<sup>(E)</sup></b> <b>315MCE-4K<sup>(E)</sup></b>
			Pulse Start MH Electronic Ballast		<b>250PSE<sup>5,6(E)</sup></b> <b>320PSE<sup>5,6,7(E)</sup></b>	<b>320PSE<sup>5,6,7(E)</sup></b>
			High Pressure Sodium Magnetic Ballast	<b>100HPS</b> <b>150HPS</b>	<b>200HPS</b> <b>250HPS</b> <b>400HPS</b>	
(E) Wattages marked with Circle "E" meet federal energy efficiency standards applicable to 100 watt through 400 watt metal halide luminaires only.						

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.

- Type 4X available in 19" luminaires only. Type 4X luminaires, 400W and below, are supplied with flat glass lens standard.
- PSMH 400W Type 4X and BLC luminaires require the E28/BT28 reduced jacket lamp.
- Medium base lamp.
- UL Listed at 40°C ambient.
- Available 120V, 200-277V, 347V or 480V only.
- Requires E28/BT28 lamp.
- Available with horizontal lamp optics only.
- MasterColor Elite systems are supplied with lamp.
- "-3K" suffix specifies a 3000°K lamp and "-4K" suffix specifies a 4000°K lamp.
- 250 watt Pulse Start Metal Halide with a 90% efficient magnetic ballast. Complies with California Title 20 effective 1/1/2010. Available in 120, 208, 240 or 277V only.

# Form 10 Square Arm Mount

(cont'd from page 1)

## Ordering Guide

example: EH1411100MH120BRPF

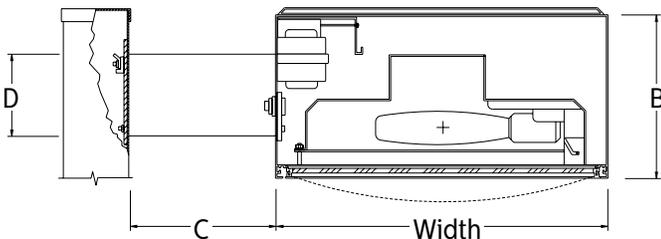
Voltage	Finish	Options
120	<b>BRA</b> Bronze Anodized	<b>F<sup>3,12</sup></b> Fusing In Head
208	<b>BRP</b> Bronze Paint	<b>LF<sup>3</sup></b> In-Line/In-Pole Fusing
240	<b>BLP</b> Black Paint	<b>PC<sup>12</sup></b> Photocontrol and Receptacle
277	<b>BLA</b> Black Anodized	<b>PCR</b> Photocontrol Receptacle only
200-277	<b>NA</b> Natural Anodized	<b>HS<sup>14</sup></b> Internal Houseside Shield
MCE and PSE types only.	<b>OC</b> Optional Color Paint	<b>QS<sup>15</sup></b> Quartz Standby
347	Specify RAL designation ex: RAL7024.	<b>QST<sup>15</sup></b> Quartz Standby - Timed Delay
480	<b>SC</b> Special Color Paint	<b>Q924<sup>15</sup></b> Quartz Emergency
QUAD	Specify. Must supply color chip.	<b>QT924<sup>15</sup></b> Quartz Emergency - Timed Delay
120/208/240/277 wired to 277V.		<b>SG<sup>17</sup></b> Sag Glass Lens
		<b>MA</b> Mast Arm Fitter Requires 2 3/8" OD mast arm
		<b>UB</b> Quick Disconnect for Ballast Tray
		<b>AT<sup>19</sup></b> Adjustable Knuckle - Tenon Mount
		<b>PTF2</b> Pole Top Fitter - 2 3/8" - 3" Dia. Tenon
		<b>PTF3</b> Pole Top Fitter - 3" - 3 1/2" Dia. Tenon
		<b>PTF4</b> Pole Top Fitter - 3 1/2" - 4" Dia. Tenon

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- 12. Not available in 480V.
- 13. Specific input voltage required.
- 14. Supplied standard with FM optics.
- 15. See QS/Q924 Table.
- 17. In lieu of flat glass.
- 19. Fits 2 3/8" tenon. Not available with 14" units. One way mounting only.

(Note 15) 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.	

## Dimensions, EPA and Mounting Illustrations



Size	Width	B	C	D
EH14	14"	7"	6"	5"
	35.56 cm	17.78 cm	15.24 cm	12.70 cm
EH19	19"	10"	9"	5"
	48.26 cm	25.40 cm	22.86 cm	12.70 cm

Refer to Table on Page 1 for mounting ordering information.

Size	Effective Projected Area (EPA)			Approximate Weight
	Single	Twin	3/4	Single
14"	1.1 ft <sup>2</sup>	2.3 ft <sup>2</sup>	2.9 ft <sup>2</sup>	30 lbs
	.10 m <sup>2</sup>	.21 m <sup>2</sup>	.27 m <sup>2</sup>	13.61 kg
19"	2.1 ft <sup>2</sup>	4.0 ft <sup>2</sup>	5.5 ft <sup>2</sup>	55 lbs
	.20 m <sup>2</sup>	.37 m <sup>2</sup>	.51 m <sup>2</sup>	24.95 kg

# Form 10 Square 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. Pressure injected silicone provides a continuous weathertight seal at all miters and points of material transition.

### ARM

Extruded aluminum arm is wired and secured to luminaire

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. Type VS luminaires are supplied with an acrylic sag 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, 4X and BLC), 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. All Metal Halide units in the 19" 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. Electronic and magnetic HID ballasts are capable of providing reliable lamp starting down to -20°F / -29°C.

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

### 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.

### LABELS

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

### WARRANTY

5 year limited warranty. See [signify.com/warranties](http://signify.com/warranties) for complete details and exclusions.

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

