

Job:
Type:
Notes:

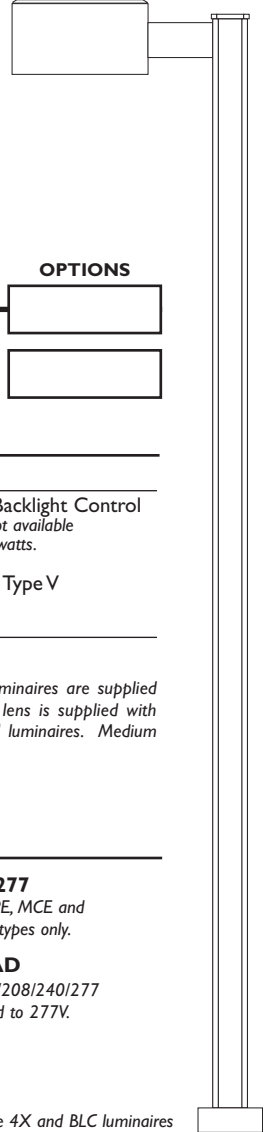
Form 10 Square

Featuring CosmoPolis and MasterColor Elite Electronic HID Systems

Page 1 of 3

EH / H Arm Mount

The Philips 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 I anodizing. The H style luminaires are die formed aluminum with a thermoset polyester finish. Both products 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.

PREFIX	MOUNTING	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
H26	26" Square Fabricated Luminaire

MOUNTING

1	Single Pole Mount
2	Twin Pole Mount at 180°
2@90	Twin Pole Mount at 90°
3	3-way Pole Mount at 90°
3@120°	3-way Pole Mount at 120°
4	4-way Pole Mount

DISTRIBUTION

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

1. Type 4X available in 19" luminaires only. Type 4X luminaires, 400W and below, are supplied with flat glass lens 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

	EH / H 14"	EH / H 19"	H 26"
Pulse Start MH Magnetic Ballast	100MH³ 150MH³ 175PSMH⁶ ⓔ 200MH⁶ ⓔ	250PSMH⁶ ⓔ 400PSMH² ⓔ 250PS90¹¹ ⓔ 450PSMH⁴ ⓔ 320PSMH⁷ ⓔ 350PSMH⁷ ⓔ	750PSMH 775PSMH⁴ 875PSMH 1000PSMH⁴
CosmoPolis™ Electronic System (See Notes 5, 6, 9)	60CMPE 90CMPE 140CMPE		
MasterColor® Elite Electronic System (See Notes 5, 6, 9, 10)		210MCE-3K⁸ ⓔ 315MCE-3K⁸ ⓔ 210MCE-4K⁸ ⓔ 315MCE-4K⁸ ⓔ	
Pulse Start MH Electronic Ballast		250PSE^{5,6} ⓔ 320PSE^{5,6,7} ⓔ	
Standard (probe start) MH Magnetic Ballast*	175MH* 250MH*⁸	250MH* 400MH*^{8,2}	1000MH
High Pressure Sodium Magnetic Ballast	70HPS 100HPS 150HPS	200HPS 250HPS 400HPS	750HPS 1000HPS

* 175W, 250W and 400W probe start MH luminaires are not available for sale in the United States.



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

VOLTAGE

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

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.

11. 250 watt Pulse Start Metal Halide with a 90% efficient magnetic ballast. Complies with California Title 20 effective 1/11/2010. Available in 120, 208, 240 or 277V only.

1611 Clovis Barker Road, San Marcos, TX 78666
(800) 227-0758 (512) 753-1000 FAX: (512) 753-7855 sitelighting.com

© 2012 Koninklijke Philips Electronics N.V. All Rights Reserved.

Philips Gardco 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.

79115-43/0512

PHILIPS



FINISH

EH14, EH19 and H26

- 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.

H14, H19 and H26

- 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

- F¹²** Fusing In Head
- LF** In-Line/In-Pole Fusing
- PC¹²** Photocontrol and Receptacle
- PCR** Photocontrol Receptacle only
- POLY¹³** Polycarbonate Sag Lens
- HS¹⁴** Internal Houseside Shield
- QS¹⁵** Quartz Standby
- QST¹⁵** Quartz Standby - Timed Delay
- Q924¹⁵** Quartz Emergency
- QT924¹⁵** Quartz Emergency - Timed Delay
- XF¹⁶** Extended Flat Glass Lens
- SG¹⁷** Sag Glass Lens
- CD** Clear Drop Diffuser *EH Style only.*
- MF** Mast Arm Fitter *Requires 2 3/8" OD mast arm.*
- MU** 10° Uptilt Bracket
- UB** Quick Disconnect for Ballast Tray

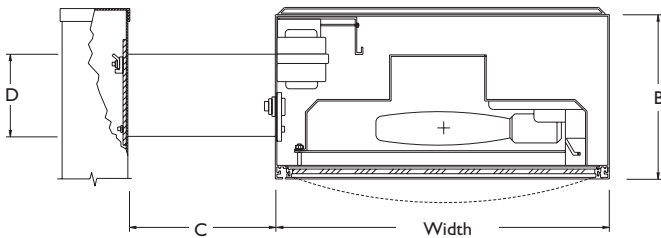
- AP¹⁸** Adjustable Knuckle - Square Pole Mount
- AT¹⁹** Adjustable Knuckle - Tenon Mount
- PTF2** Pole Top Fitter - 2 3/8" - 3" Dia. Tenon
- PTF3** Pole Top Fitter - 3" - 3 1/2" Dia. Tenon
- PTF4** Pole Top Fitter - 3 1/2" - 4" Dia. Tenon
- GMR²⁰** Provision for Gardco Motion Response
- L6²¹** LumiStep Ballast 6 hour
- L8²¹** LumiStep Ballast 8 hour
- L10²¹** LumiStep Ballast 10 hour

(Note I5) 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.

- 12. Not available in 480V. Specific input voltage required.
- 13. In lieu of flat glass. Not available with 4X optics. 450W maximum. Polycarbonate lenses carry 1 year warranty only.
- 14. Supplied standard with FM optics.
- 15. See QS/Q924 Table.
- 16. Flat Glass lens with extended drop. Available with 19" housings only. Allows use of a larger lamp while providing full cutoff performance.
- 17. In lieu of flat glass. Supplied standard with 26" VS.
- 18. Only available with 1 way and 2 @ 180° mounting. Square pole mount only.
- 19. Fits 2 3/8" tenon. Not available with 14" units.
- 20. 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.
- 21. Available with CosmoPolis system only. See submittal sheet GE200-005 for complete information on LumiStep ballasts.

DIMENSIONS AND EPA



Size	Width	B	C	D
EH14	14" 35.56 cm	7" 17.78 cm	6" 15.24 cm	5" 12.70 cm
H14	14" 35.56 cm	7" 17.78 cm	6" 5.08 cm	5" 12.70 cm
EH19	19" 48.26 cm	10" 25.40 cm	9" 22.86 cm	5" 12.70 cm
H19	19" 48.26 cm	10" 25.40 cm	9" 5.08 cm	5" 12.70 cm
H26	26" 66.04 cm	12" 30.48 cm	12" 30.48 cm	8" 20.32 cm

Size	Effective Projected Area (EPA)			Approximate Weight
	Single	Twin	3/4	Single
14"	1.1 ft ² .10 m ²	2.3 ft ² .21 m ²	2.9 ft ² .27 m ²	30 lbs 13.61 kg
	2.1 ft ² .20 m ²	4.0 ft ² .37 m ²	5.5 ft ² .51 m ²	55 lbs 24.95 kg
19"	3.5 ft ² .33 m ²	7.0 ft ² .65 m ²	8.9 ft ² .83 m ²	95 lbs 43.09 kg

1611 Clovis Barker Road, San Marcos, TX 78666
(800) 227-0758 (512) 753-1000 FAX: (512) 753-7855 sitelighting.com

© 2012 Koninklijke Philips Electronics N.V. All Rights Reserved.

Philips Gardco 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.

79115-43/0512

PHILIPS



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) 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 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. 26" VS Luminaires feature a sag glass lens. In 400 watts 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 (I), 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. 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: 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 (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. 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.

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.