Notes:

Featuring MasterColor Elite Electronic HID Systems

Form 10 Round

CA / MA Arm Mount

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The Philips Gardco Round arm mounted Form 10 products are cylindrical (CA) or semi-spherical (MA) cutoff luminaires providing the greatest energy efficiency when utilized with MasterColor Elite high performance ceramic metal halide electronic systems. Luminaires may also utilize other high intensity discharge lamps up to 875 watts (400 watts in the MA). Housings are one-piece seamless spun aluminum and finished with either Architectural Class 1 anodizing or electrostatically applied polyurethane. Luminaires can accept one of six (6) interchangeable and rotatable precision segmented optical systems. Flat glass lens luminaires provide full cutoff performance. Sag Lens luminaires provide cutoff performance.

	order code into the appropriate box abov		p reserves the right to refuse a conf			
configuration	ons are valid. Refer to notes below for es	MOUN	•	•	t the factory.	L
		1	Single Pole Mount	Horizor	ntal Lamp	
CA17	17" Diameter Cylindrical Luminaire	1 2	Single Pole Mount Twin Pole Mount at 180°	<u>Horizor</u> 1		BLC ² Backlight Control
	17" Diameter Cylindrical Luminaire 17" Diameter Semi-Spherical Luminai	1 2 ^e 2@90	0	<u>Horizor</u> 1 3	ntal Lamp Type 1 Type 1II	22" only. Not available
CA17 MA17 CA22	,	1 2 ^e 2@90 3	Twin Pole Mount at 180°	<u>Horizor</u> 1 3 4X ^{1,2} FM	Туре 1	

4-way Pole Mount 4

1.22" luminaires only. 400 watts and below are supplied with flat glass lens standard.

2.PSMH 400 watt Type 4X and BLC luminaires require the E28/BT28 reduced jacket lamp.

WATTAGE 17" 22" 250PSMH 🗉 50MH³ (Ē) 250PS90' E 750PSMH⁴ Pulse Start MH 70MH³ 🕞 175PSMH 🗉 320PSMH¹⁰ (E) Magnetic Ballast 875PSMH⁴ 100MH³ (E) 350PSMH¹⁰ (E) 200MH4 🗉 400PSMH² (E) 210MCE-3K^{11,12} (E) 315MCE-3K^{11,12} (E) MasterColor Elite **Electronic System** 210MCE-4K^{11,12} (E) 315MCE-4K^{11,12} (E) Pulse Start MH 250PSE¹¹ (E) 320PSE^{10,11} (E) Electronic Ballast 250HPS 70HPS **High Pressure Sodium** 150HPS 750HPS⁴ 100HPS 400HPS Magnetic Ballast Wattages marked with Circle "E" meet federal energy efficiency standards applicable to E

50 watt through 400 watt pulse start metal halide luminaires only.

VOLTAGE

TOLIAG			
120 208	347 480	QUAD 120/208/240/277	
240		wired to 277V.	
277			
200-277 CMPE, MCE			
and PSE types	s only.		
2 PSMH 400 v	Natts Type	4X and BLC	

- PSMH 400 watts Type 4X and BLC luminaires require the E28/BT28 reduced jacket lamp.
- Medium base lamp.
- 4. Available in CA Style only. Not available in MA Style.
- 5. 250 watt Pulse Start Metal Halide with a 90% efficient magnetic ballast. Complies with California Title 20. Available in 120, 208, 240 or 277V only.
- 6. Requires E28/BT28 lamp.
- 7. 120V or 200 277V only. Not available with QS, QST, Q924 or OT924 options.
- 8. "-3K" suffix specifies a 3000°K lamp and "-4K" suffix specifies a 4000°K lamp.



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FINISH

BRP	Bronze Paint
BLP	Black Paint
WP	White Paint
NP	Natural Aluminum Paint
BRA	Bronze Anodized
BLA	Black Anodized
NA	Natural Anodized
ос	Optional Color Paint
	Specify Optional Color or
	RAL ex: RAL7024.
SC	Special Paint

Specify. Must supply color chip.

OPTIONS						
F ^{10,11}	Fusing					
LF ^{9,10}	In-Line/In-Pole Fusing					
PC ^{9,11}	Photocontrol and Receptacle					
PCR ⁹	Photocontrol Receptacle only					
HS ¹²	Internal House Side Shield					
QS ¹³	Quartz Standby					
	Quartz Standby - Timed Delay					
Q924 ¹³	Quartz Emergency					
QT924	³ Quartz Emergency - Timed Delay					
SG ¹⁴	Sag Glass Lens					
MF ¹⁵	Mast Arm Fitter					

(Note 13) 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
regardless of HID wattage. QS	0 watt quartz lamp maximum , QST, Q924 and QT924 options naires above 400 watt HID.

Form 10 Round

CA / MA Arm Mount

PTF2	Pole Top Fitter - 2 3/8 - 3" Dia. Tenon
PTF3	Pole Top Fitter - 3 - 3.5" Dia. Tenon
PTF4	Pole Top Fitter - 3.5 - 4" Dia. Tenon

- 9. Available in CA Style only. Not available in MA Style.
- In Head. Not available above 400W. Provide Specific input voltage.
- 11. Not available in 480V. Provide specific input voltage.
- 12. Supplied standard with FM optics.
- 13. See QS/Q924 Table. Separate 120V power source is required.
- 14. In lieu of flat glass. Available on 22" luminaires only.
- 15. Requires 2 3/8" mast arm. Not available with MA17.

В

DIMENSIONS AND EPA



MA Style EPA							Avg. Weight	
Size	Α	В	С	D	Single	Twin	Quad	Single
MA17	17"	11"	5"	5"	.8 ft ²	1.6 ft ²	2.3 ft ²	27 lbs
	43.18 cm	27.94 cm	12.70 cm	12.70 cm	.07 m ²	.15 m ²	.21 m ²	27 lbs 12.25 kg
MA22	22"	14"	7"	5"	1.3 ft ²	2.7 ft ²	3.7 ft ²	40 lbs
	55.88 cm	35.56 cm	17.78 cm	5" 12.70 cm	.12 m²	.25 m²	.34 m ²	18.14 kg

CAS	ityle			EPA			Avg. Weight	
Size	Α	В	С	D	Single	Twin	Quad	Single
CA17	7 17" 43.18 cm		5" 12.70 cm	5" 12.70 cm	.7 ft² .07 m²	1.5 ft² .14 m²	2.1 ft ² .20 m ²	27 lbs 12.25 kg
CA22	2 22"	11"	7"	5"	1.2 ft ²	2.3 ft ²	3.3 ft ²	42 lbs
	55.88 cm	27.94 cm	17.78cm	5" 12.70 cm	.11 m²	.21 m²	.31 m²	19.05 kg

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SPECIFICATIONS

GENERAL: Each Gardco Form 10 arm mounted Hardtop is a cylindrical (CA) or semi-spherical (MA) cutoff luminaire providing the greatest energy efficiency when utilized with MasterColor Elite high performance ceramic metal halide electronic systems. 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 the luminaire housing, disturbing wiring or exposing uninsulated live parts.

HOUSING: Housing is one piece, .100" (.25cm) seamless aluminum with integral rolled circumferential reveal and lower section aperture incorporating a returned flange stiffener to protect against housing edge deformation. Units are offered in profiles of 17" (43.18cm) or 22" (55.88cm) diameter.

ARM: Extruded aluminum arm is secured to prewired fixture by contractor. Assembly is suitable for mounting to pole without requiring access to luminaire. Internal extruded channels capture tie rods for proper luminaire to pole alignment.

LENS: One piece, diecast aluminum door frame retains the optically clear, heat and impact resistant tempered flat glass or sag glass lens in a sealed manner using hollow section, high compliance, memory retentive extruded silicone rubber. Concealed stainless steel hinge and two (2) fasteners secure lens assembly to 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, III, IV and V distributions. With the 4X optics, the reflector facets form a conical fan around the arc tube with each facet positioned to be precisely tangent to the top of the arc tube. The mogul base lampholder is glazed porcelain with a nickel plated screw shell and is securely attached to the reflector assembly. 50MH, 70MH and 100MH units have medium base lampholders. All horizontal Metal Halide units in the 22" 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 $-20^{\circ}F / -29^{\circ}C$.

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: Anodized housings are created with an Aluminum Association Architectural Class I anodizing process to achieve a bronze, black or natural aluminum finish. Painted units are finished with hardcoat, fade resistant, electrostatically applied TGIC polyester powdercoat or polyurethane.

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

WARRANTY: 5 year limited warranty. See philips.com/warranties for complete details and exclusions.

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