

Featuring CosmoPolis and MasterColor Elite Electronic HID Systems

The Gardco Round Post Top Mounted Form 10 products are cylindrical (CP) or semi-spherical (MP) cutoff luminaires providing the greatest energy efficiency when utilized with CosmoPolis or 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 MP). Housings are one-piece seamless spun aluminum and finished with either Architectural Class 1 anodizing or electrostatically applied TGIC polyester powder coat or polyurethane. Luminaires can accept one of six (6) interchangeable and rotatable precision segmented optical systems. Optional twin glow rings at post tops are available in (4) colors and are illuminated by the primary source. 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: CP17P11170HPS120BRPF

Prefix	Mounting							Distribution		
	Poles				Tenons					
See Mounting Illustrations on Page 3 for more information.	SRS3 MIN O.D. 2.88" MAX O.D. 3.00"	RA4/SRS4		RA5/SRS5 MIN I.D. 4.62" MAX O.D. 4.85"	T2 2 3/8" O.D. x 4"	T3 2 7/8" O.D. x 4"	T3 3" O.D. x 4"	T4 4" O.D. x 6"	Horizontal Lamp	
		CP / MP 17 MIN O.D. 3.58" MAX O.D. 3.85"	CP / MP 22 MIN O.D. 3.50" MAX O.D. 4.00"						1 Type 1 3 Type 1II 4X^{1,2} Type IV BLC² Backlight Control FM Type 1V Q Type V 22" only. Not available above 400W	
CP17 17" Diameter Cylindrical Luminaire	P11 (ill. 2)	P12 (ill. 1)		Not Available	T14 (ill. 3)	T15 (ill. 3)	T16 (ill. 3)	Not Available	Vertical Lamp	
MP17 17" Diameter Semi-Spherical Luminaire	P21 (ill. 2)	P22 (ill. 1)		Not Available	T24 (ill. 4)	T25 (ill. 3)	T26 (ill. 3)	Not Available	VS Type V In 400W and below, luminaires with VS optics are supplied with an acrylic sag lens. A glass sag lens is supplied with luminaires above 400W. Medium base lamp only on 17" luminaires only.	
CP22 22" Diameter Cylindrical Luminaire	P31 (ill. 5)	P32 (ill. 2)		P33 (ill. 1)	T34 (ill. 4)	T35 (ill. 4)	T36 (ill. 4)	T37 (ill. 3)		
MP22 22" Diameter Semi-Spherical Luminaire	P41 (ill. 5)	P42 (ill. 2)		P43 (ill. 1)	T44 (ill. 4)	T45 (ill. 4)	T46 (ill. 4)	T47 (ill. 3)		
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.										
1. 22" luminaires only. 400W and below are supplied with flat glass lens standard. For wattages above 400W, "XF" extended flat lens is supplied standard.										
2. MH/PSMH 400W Type 4X and BLC luminaires require the E28/BT28 reduced jacket lamp.										

(following on page 2)

Form 10 Round CP / MP Post Top Mount

(cont'd from page 1)

Ordering Guide

example: CP17P11170HPS120BRPF

Wattage				Voltage	Finish	Options		
Pulse Start MH Magnetic Ballast	17"		22"		120 208 240 277 200-277 <i>CMPE, MCE and PSE types only.</i> 347 480 QUAD 120/208/240/277 wired to 277V.	BRP Bronze Paint BLP Black Paint WP White Paint NP Natural Aluminum Paint BRA Bronze Anodized BLA Black Anodized NA Natural Anodized OC Optional Color Paint <i>Specify RAL designation ex: OC-RAL7024.</i> SC Special Color Paint <i>Specify. Must supply color chip.</i>	F ¹³ Fusing	
	50MH ³ 70MH ³ 100MH ³	150MH ³ 175PSMH ^(E) 200MH ^{6(E)}	250PSMH ^(E) 250PS90 ^{8(E)} 320PSMH ^{10(E)} 350PSMH ^{10(E)} 400PSMH ^{2(E)}	450PSMH ⁴ 750PSMH ⁶ 775PSMH ^{4,6} 875PSMH ⁶			LF In-Line/In-Pole Fusing PC ^{6,14} Photocontrol and Receptacle PCR ⁶ Photocontrol Receptacle only POLY ¹⁵ Polycarbonate Sag Lens HS ¹⁶ Internal House Side Shield QS ¹⁷ Quartz Standby QST ¹⁷ Quartz Standby - Timed Delay Q924 ¹⁷ Quartz Emergency QT924 ¹⁷ Quartz Emergency - Timed Delay XF ¹⁸ Extended Flat Glass Lens SG ¹⁹ Sag Glass Lens GMR ²⁰ Provision for Gardco Motion Response L6 ²¹ LumiStep Ballast 6 hour L8 ²¹ LumiStep Ballast 8 hour L10 ²¹ LumiStep Ballast 10 hour	
	CosmoPolis Electronic System	60CMPE ¹¹ 90CMPE ¹¹	140CMPE ¹¹	140CMPE ¹¹			Glow Rings	
	MasterColor Elite Electronic System			210MCE-3K ^{11,12(E)} 210MCE-4K ^{11,12(E)}			315MCE-3K ^{11,12(E)} 315MCE-4K ^{11,12(E)}	GRC Clear GRY Yellow GRG Green GRR Red
	Pulse Start MH Electronic Ballast			250PSE ^{11(E)}			320PSE ^{10,11(E)}	
Standard MH Magnetic Ballast*	175MH ⁹	250MH ^{5,6,9}	250MH ⁹ 400MH ^{2,9}					
High Pressure Sodium Magnetic Ballast	70HPS 100HPS	150HPS	250HPS 400HPS	750HPS ^W				
(E) Wattages marked with Circle "E" meet federal energy efficiency standards applicable to 150 watt through 500 watt metal halide luminaires only.								

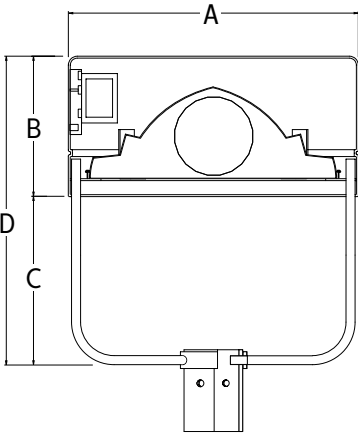
Enter the order code into the appropriate box above. Note: Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

3. Medium base lamp. 4. Available with vertical lamp optics only. 5. Available with horizontal lamp optics only. 6. Available in CP Style only. Not available in MP Style. 7. Uses E37 / BT37 lamps only. 8. 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. 9. 175 MH, 250MH and 400MH are not available for sale in the United States. 10. Requires E28/BT28 lamp. 11. 120V or 200 - 277V only. Not available with QS, QST, Q924 or QT924 options. 12. "-3K" suffix specifies a 3000°K lamp and "-4K" suffix specifies a 4000°K lamp. 13. In Head. Not available above 400W. 14. Not available in 480V. Provide Specific input voltage. 15. In lieu of flat glass. Not available with 4X optics, or 750W through 875W. Polycarbonate lenses carry a 1 year warranty only. 16. Supplied standard with FM optics. 17. See QS/Q924 Table. Not available in MP Style. 18. Flat Glass lens with extended drop. Available with 22" luminaires only. Allows for the use of a larger lamp while providing full cutoff performance. 19. In lieu of flat glass. Available on 22" luminaires only. 20. Available with 17" 175PSMH or 150HPS and 22" 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.	(Note 17)	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
	17" 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.		

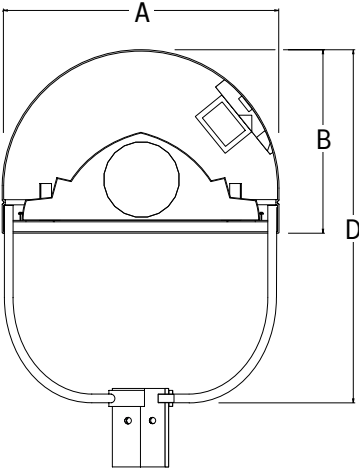
Form 10 Round CP / MP Post Top Mount

Dimensions, EPA and Mounting Illustrations

CP Style



MP Style



Size	A	B	C	D	EPA's Single	Weight Single
17"	17" 43.18 cm	8" 20.32 cm	10" 25.40 cm	18" 45.32 cm	.7 ft ² .07 m ²	31 lbs 14.06 kg
22"	22" 55.88 cm	11" 27.94 cm	11" 27.94 cm	22" 55.88 cm	1.0 ft ² .09 m ²	50 lbs 22.68 kg

Size	A	B	C	D	EPA's Single	Weight Single
17"	17" 43.18 cm	11" 27.94 cm	10" 25.40 cm	21" 53.34 cm	.7 ft ² .07 m ²	31 lbs 14.06 kg
22"	22" 55.88 cm	14" 35.56 cm	11" 27.94 cm	25" 63.50 cm	1.0 ft ² .09 m ²	50 lbs 22.68 kg

Mounting Illustrations

Illustration 1

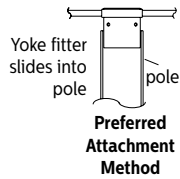


Illustration 2

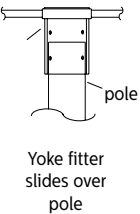


Illustration 3

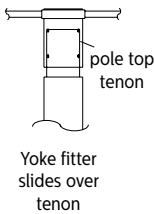


Illustration 4

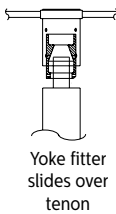
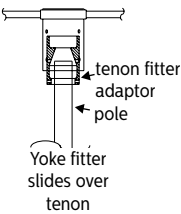


Illustration 5



Refer to Table on Page 1 for mounting ordering information.

Form 10 Round CP / MP Post Top Mount

Specifications

GENERAL

Each Gardco Form 10 post top mounted Hardtop is a cylindrical (CP) or semi-spherical (MP) cutoff luminaire providing the greatest energy efficiency when utilized with CosmoPolis or 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. Optional twin glow rings at post top are available in (4) colors and are illuminated by the primary downlight source.

HOUSING

Housing is a one-piece, .100" (.25 cm) seamless aluminum with an 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" (43.18 cm) or 22" (55.88 cm) in diameter.

YOKE

The 9/16" (1.42cm) diameter parallel yokes of high strength, low mass schedule 40 steel are precision contoured to match the CP or MP housing silhouette. Welds or fasteners are not visible at the luminaire or pole attachment. The yoke is electrogalvanized and coated with satin black polyurethane or polyester powder coat.

LENS

One-piece, die cast aluminum door frame retains the the optically clear, heat and impact resistant tempered flat glass, extended flat glass, sag glass or sag polycarbonate 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 the assembly 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 (I), III (3), IV (FM, 4X, BLC)), and V (Q/VS) 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 - all securely attached to the reflector assembly. 50MH, 70MH and 100MH units have a medium base lampholder. 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°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

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 polyurethane or TGIC polyester powder coat.

LABELS

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

WARRANTY

5 year limited warranty. See signify.com/warranties for complete details and exclusions.

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.

