

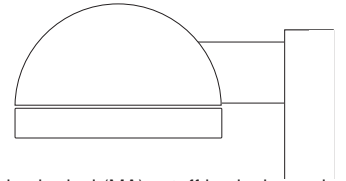
Notes:

Job:

Type:

FORM 10 ROUND

CA/MA ARM MOUNT



GENERAL DESCRIPTION: The Gardco Round arm mounted Form 10 products are cylindrical (CA) or semi-spherical (MA) cutoff luminaires using high intensity discharge lamps up to 1000 watts (400w 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.

CUTOFF PERFORMANCE: Flat glass lens luminaires provide full cutoff performance. Sag Lens luminaires provide cutoff performance.

ORDERING

PREFIX	CONFIGURATION	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS

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

CA17	17 Diameter Cylindrical Luminaire
MA17	17 Diameter Semi-Spherical Luminaire
CA22	22 Diameter Cylindrical Luminaire
MA22	22 Diameter Semi-Spherical Luminaire

CONFIGURATION

1	Single Assembly	3	Triple at 90°
2	Twin Assembly	3@120	Triple at 120°
2@90	Twin Assembly at 90°	4	Quad Assembly

DISTRIBUTION

Horizontal Lamp

1	Type I	1. 22 luminaires, 400w and below are supplied with flat glass lens standard. For wattages above 400w, "XF" flat lens is supplied standard. 2. MH/PSMH 400w Type 4X luminaires require the E28/BT28 reduced jacket lamp
3	Type III	
4X^{1,2}	Type IV (22 only)	
FM	Type IV	
Q	Type V	

Vertical Lamp

VS	Type V
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In 400w and below, luminaires are supplied with an acrylic sag lens. A glass sag lens is supplied with luminaires above 400w. Medium base only on 17 luminaires only.

WATTAGE

CA17	MA17	CA22	MA22
50MH³	50MH³	250MH	250MH
70MH³	70MH³	400MH	400MH
100MH³	100MH³	1000MH^{7,8,10}	250PSMH
150MH³	150MH³	250PSMH	320PSMH
175MH	175MH	320PSMH	350PSMH
200MH	175PSMH⁴	350PSMH	400PSMH
250MH⁵		400PSMH	450PSMH⁴
175PSMH⁴	70HPS	450PSMH⁴	250HPS
	100HPS	750PSMH⁹	400HPS
	150HPS⁶	875PSMH	
70HPS		1000PSMH^{8,10}	
100HPS			
150HPS⁵			
		250HPS	
		400HPS	
		750HPS⁷	

MH Metal Halide
PSMH Pulse Start Metal Halide
HPS High Pressure Sodium

VOLTAGE

120	240	347	QUAD
			120/208/240/277, Factory tied to 277V.
208	277	480	

FINISH

BRP	Bronze Paint	BLA	Black Anodized
BLP	Black Paint	BRA	Bronze Anodized
WP	White Paint	NA	Natural Anodized
NP	Natural Aluminum Paint		
OC	Optional Color Paint	Specify RAL designation ex: OC-RAL7024.	
SC	Special Color Paint	Specify. Must supply color chip.	

- Medium base lamp.
- Available with vertical lamp optics only.
- Available with horizontal lamp optics only.
- Operates 55V lamp.
- Uses BT37 lamps only.
- Available with 4X and VS optics only.
- M149 only. Horizontal optics require MS750/PS/BU-HOR/BT37 Lamp
- For 1000w CA22 with 4X optics, see 1000w lamp restrictions.

1000w Lamp Restrictions

For CA22 with 4X Optics, 1000 Metal Halide, use:

Brand	Product Code	Catalog Number
Venture	53702	MS1000W/HOR/BT37/3K
G.E.	18205	MVR1000/U/BT37
Venture	15332	MH1000W/U/BT37

For CA22 with 4X Optics, 1000 Pulse Start, use:

Brand	Product Code	Catalog Number
G.E.	10389	MVR1000/U/BT37/PA
Venture	49111	MS1000W/HOR/T25/PS

WARNING: Use of other lamps voids warranty

OPTIONS

HS	Internal House Side Shield Supplied standard w/FM optics.	PCR	Photocontrol Receptacle only N/A with MA units.	XF	Extended Flat Glass Lens Flat Glass lens with extended drop. Allows for the use of a larger lamp while providing full cutoff performance.
F	Fusing In Head. N/A above 400w.	POLY	Polycarbonate Sag Lens In lieu of flat glass. N/A w/4X optics, 750 - 1000w.	SG	Sag Glass Lens In lieu of flat glass.
LF	In-Line/In-Pole Fusing	QS¹¹	Quartz Standby		
MF	Mast Arm Fitter	QST¹¹	Quartz Standby - Timed Delay 11. Not available above 400w.		
PC	Photocontrol and Receptacle N/A with MA units or 480V.	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		

Gardco Lighting 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. The 4X optical system is protected by U.S. patent number 5690422.

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Genlyte Group

79115-40/0707

FORM 10 ROUND

CA/MA ARM MOUNT

SPECIFICATIONS

GENERAL: Each Gardco Form 10 arm mounted Hardtop is a cylindrical (CA) or semi-spherical (MA) cutoff luminaire for high intensity discharge lamps. 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, 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 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: Each high power factor ballast is the separate component type, capable of providing reliable lamp starting down to -20°F/-29°C. The ballast is mounted on a unitized tray and secured within the luminaire, above the reflector system. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600 VAC at 301°F/150°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher.

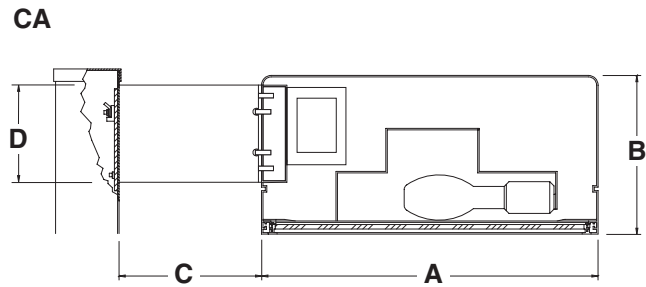
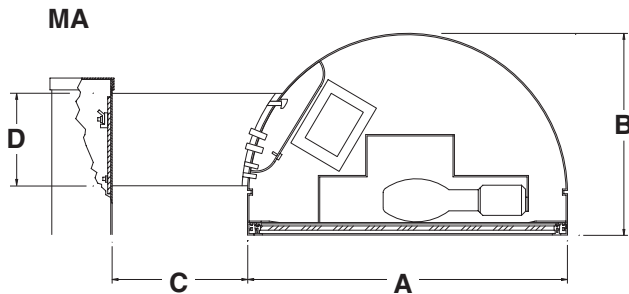
FINISH: Anodized housings are created with an Aluminum Association Architectural Class I anodizing process to achieve a bronze, black or natural aluminum finish. Painted units are finished with hardcoat, fade resistant, electrostatically applied polyurethane.

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

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

DIMENSIONS



MA Style		EPA			Avg. Weight			
Size	A	B	C	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	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	12.70 cm	.12 m ²	.25 m ²	.34 m ²	18.14 kg

CA Style		EPA			Avg. Weight			
Size	A	B	C	D	Single	Twin	Quad	Single
CA17	17"	8	5	5	.7 ft ²	1.5	2.1	27 lbs
	43.18 cm	20.32 cm	12.70 cm	12.70 cm	.07 m ²	.14 m ²	.20 m ²	12.25 kg
CA22	22"	11	7	5	1.2	2.3	3.3	42 lbs
	55.88 cm	27.94 cm	17.78 cm	12.70 cm	.11 m ²	.21 m ²	.31 m ²	19.05 kg

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