

Job:
Type:
Notes:



CR20 and CR25 Area Luminaires

The Gardco Circa product line is a low profile, curvilinear cutoff luminaire utilizing CosmoPolis™ or MasterColor® Elite high performance ceramic metal halide electronic systems and suitable for other high intensity discharge lamps and systems. The housings are one-piece, die cast aluminum and mount directly to a pole, mast arm or wall without the need of a separate support arm. The shallow, rounded form produces extremely low effective projected areas for superior wind loading capability. Luminaires accept nine interchangeable, rotatable precision segmented optical systems which provide sharp cutoff of glare and light trespass. Flat glass lens luminaires provide full cutoff performance. Sag lens luminaires provide cutoff performance.



PREFIX	MOUNTING	DISTRIBUTION	WATTAGE	VOLTAGE	RING	FINISH	OPTIONS
<input type="text"/>	<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

CR20 Small Circa 20"
CR25 Large Circa 25"

Standard arm, without any RPA (Round Pole Adapter), mounts to round poles from 3.85" to 4.5" O.D.

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
W Wall Mount, Recessed J-Box
WS Wall Mount, Surface Conduit

DISTRIBUTION

Horizontal Lamp

1° Type I
2XL Type II
3XL Type III
4XL Type IV
BLC° Backlight Control (Available in CR25 only)
5H° Type V

Vertical Lamp

2XLV° Type II All luminaires with vertical lamp optics require a sag glass lens, and require a conical-shaped top housing extension.
3XLV° Type III
4XLV° Type IV
5V° Type V

WATTAGE

	CR20	CR25	
Pulse Start MH Magnetic Ballast	100MH 150MH 175PSMH¹ (E) 200MH^{2,4} (E)	250PSMH (E) 250PS90^{**} (E) 320PSMH³ (E) 350PSMH³ (E) 400PSMH³ (E)	450PSMH^{4,5} (E) 750PSMH¹ 775PSMH^{4,5} 875PSMH¹
CosmoPolis™ Electronic System See Notes 11, 12, 13	60CMPE 90CMPE 140CMPE	140CMPE	
MasterColor® Elite Electronic System See Notes 10, 12, 13		210MCE-3K (E) 210MCE-4K (E)	315MCE-3K (E) 315MCE-4K (E)
Pulse Start MH Electronic Ballast		250PSE¹⁰ (E)	320PSE^{3,10} (E)
Standard MH Magnetic Ballast*	175MH[*] 250MH^{*1,6,7}	250MH^{*7}	400MH^{*3}
High Pressure Sodium Magnetic Ballast	100HPS 150HPS	250HPS 400HPS	750HPS⁵
Low Pressure Sodium Magnetic Ballast	18LPS		
* 175MH, 250MH and 400MH not available for sale in the United States. ** 250PS90 includes a 90% efficient magnetic PSMH ballast, meeting the requirements of California Title 20, effective 1/1/2010.			
(E)	Wattages marked with Circle "E" meet federal energy efficiency standards applicable to 150 watt through 500 watt metal halide luminaires only.		

VOLTAGE

120 **240** **347°**
208 **277** **480**
200-277 CMPE, MCE and PSE types only.

RING

AR° Aluminum Ring Painted to match housing.
SR Stainless Steel Ring Brushed
OR° Optional Color Ring Painted a different color than housing.
LR Less Ring

1. Horizontal lamp optics only.
2. Not available in 480V.
3. Requires E28/BT28 lamp.
4. Vertical lamp optics only.
5. Supplied with sag glass lens only.
6. Type I, Type BLC and Type 5H are not available above 400 watts.
7. 250MH with 347V is not available with QS, QST, Q924 or QT924 options.
8. (AR) Ring supplied same color as housing standard. For optional color ring (OR), specify finish or RAL. Ex. OR-BLP or OR-RAL-7024
9. Type I, Type BLC and Type 5H are not available above 400 watts.
10. 200 - 277V only. Not available with QS, QST, Q924 or QT924 options.
11. 120V or 200 - 277V only. Not available with QS, QST, Q924 or QT924 options.
12. CosmoPolis™ and MasterColor® Elite systems supplied with lamp.
13. "-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
OC	Optional Color Paint <i>Specify Optional Color or RAL ex: OC-LGP or OC-RAL7024.</i>
SC	Special Paint <i>Specify. Must supply color chip.</i>

OPTIONS

F¹³	Fusing In Head
LF	In-Line/In-Pole Fusing
PC¹⁴	Photocontrol and Receptacle
PCR	Photocontrol Receptacle only
SG¹⁵	Sag Glass Lens
HS¹⁶	Internal Houseside Shield
MA¹⁷	Mast Arm Mounting Kit <i>(internal)</i>
RPAI¹⁸	3" Round Pole Adapter
RPA2¹⁹	4" and 5" Round Pole Adapter
SPA²⁰	Square Pole Adapter

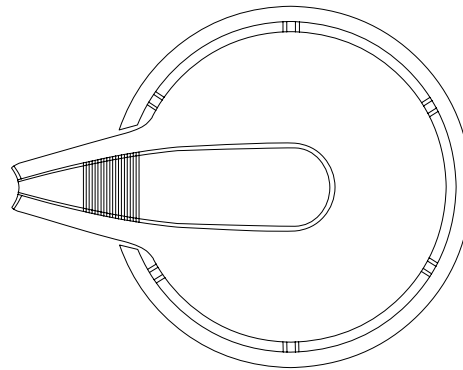
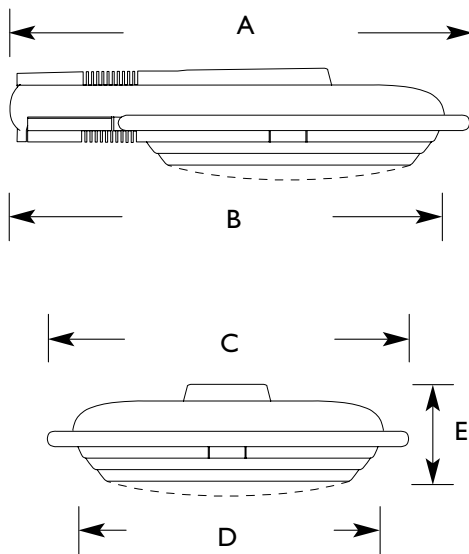
QS^{7,21}	Quartz Standby
QST^{7,21}	Quartz Standby - Timed Delay
Q924^{7,21}	Quartz Emergency
QT924^{7,21}	Quartz Emergency - Timed Delay
PTF2	Pole Top Fitter - 2 3/8" - 3" Dia. Tenon
PTF3	Pole Top Fitter - 3" - 3 1/2" Dia. Tenon
PTF4	Pole Top Fitter - 3 1/2" - 4" Dia. Tenon
GMR²²	Provision for Gardco Motion Response
TB	Terminal Block
L6²³	LumiStep™ Ballast 6 hour
L8²³	LumiStep™ Ballast 8 hour
L10²³	LumiStep™ Ballast 10 hour

- 7. 250MH with 347V is not available with QS, QST, Q924 or QT924 options.
- 13. Not available above 400 watt.
- 14. Not available with 480V. Provide specific input voltage.
- 15. In lieu of flat glass. Supplied standard and required on all luminaires above 400 watt and with vertical lamp optics.
- 16. 875 watt luminaires available with external shield only.
- 17. Requires 2 3/8" O.D. Mast Arm.
- 18. Required for 3" O.D. round or tapered round poles where top O.D. is less than 3.85".
- 19. Required for 5"- 6" O.D. round poles.
- 20. 2 3/4" O.D. Minimum Pole Width.
- 21. See QS / Q924 Table
- 22. Available only with CR25, 250PSMH through 400PSMH and 2500HPS through 400HPS wattages. Includes dual-level capacitor and wiring to connect to Gardco Motion Response System.
- 23. Available with CosmoPolis™ system only. See submittal sheet GE200-005 for complete information on LumiStep™ ballasts.

(Note 21) 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

20" 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.

DIMENSIONS AND EPA



EPA

	Single	Twin	3-4 way	
CR20	Flat Lens	.60 ft² .06 m²	1.20 ft² .11 m²	1.63 ft² .15 m²
	Sag Lens	.62 ft² .06 m²	1.25 ft² .12 m²	1.70 ft² .16 m²
CR25	Flat Lens	.85 ft² .08 m²	1.70 ft² .16 m²	2.3 ft² .21 m²
	Sag Lens	1.10 ft² .10 m²	2.20 ft² .20 m²	3.1 ft² .29 m²

Size	A	B	C	D	E	Sag Glass Lens Drop
CR20	29 5/8"	28"	23 1/4"	20"	6 1/4"	3/4"
	75.25 cm	71.12 cm	59.05 cm	50.80 cm	15.87 cm	1.91 cm
CR25	37 5/8"	26 1/8"	28 1/2"	25 3/8"	6 5/8"	2 5/8"
	95.57 cm	91.76 cm	72.39 cm	64.45 cm	16.83 cm	6.67 cm

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SPECIFICATIONS

GENERAL DESCRIPTION: The Gardco Circa product line is a low profile, curvilinear cutoff luminaire utilizing CosmoPolis™ or MasterColor® Elite high performance ceramic metal halide electronic systems and suitable for other high intensity discharge lamps and systems. The housings are one-piece, die cast aluminum and mount directly to a pole, mast arm or wall without the need of a separate support arm. The shallow, rounded form produces extremely low effective projected areas for superior wind loading capability. Luminaires accept nine interchangeable, rotatable precision segmented optical systems which provide high light levels, uniform illumination and sharp cutoff of glare and light trespass.

HOUSING: A one-piece diecast aluminum housing mounts directly to a pole, mast arm or wall without the need for a support arm. Luminaires with vertical lamp optics include a conical-shaped top housing extension.

LENS ASSEMBLY: A single-piece diecast aluminum lens frame hinges down from the housing and is secured by a concealed stainless steel hinge and hinge pin. An optically clear, heat and impact resistant tempered flat glass lens (convex lens on vertical lamps and horizontal 750 watt and 875 watt PSMH) is mechanically secured with six retainers. The electrical and optical chambers are thoroughly sealed with a one-piece memory retentive hollow-core silicone gasket to prevent intrusion by rain, dust, and insects.

OPTICAL SYSTEMS: The segmented optical systems are manufactured from homogenous sheet aluminum which has been electrochemically brightened, anodized and sealed. The multifaceted arc image duplicating systems are designed to produce IES Types I (I), II (2XL-2XLV), III (3XL-3XLV), IV (4XL-BLC-4XLV), and V (5H-5V). With the 2XL, 3XL and 4XL luminaires, 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.

For the CR25, a mogul base lampholder is glazed porcelain with a nickel plated screw shell. Position-oriented sockets are supplied standard to accept super metal halide lamps. All CR25 units feature lamp stabilizers. In CR20 units, lampholders for 200 watt and higher metal halide or pulse start metal halide lamps are mogul base. All other CR20 lampholders are medium base.

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: Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Units are thoroughly cleaned and provided with an advanced chromate acid pre-treatment. Standard colors include bronze (BRP), black (BLP), white (WVP), and natural aluminum (NP). Consult factory for specs on custom colors.

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.

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