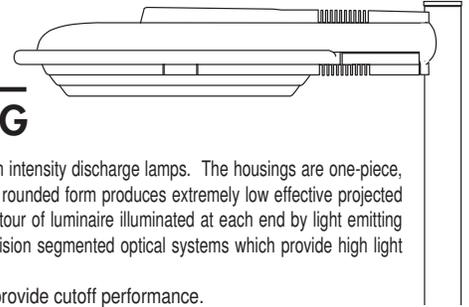


Notes:

Job:

Type:

CIRCA



CR20 AND CR25 AREA LUMINAIRES WITH LED RING

GENERAL DESCRIPTION: The Gardco Circa product line is a low profile, curvilinear cutoff luminaire utilizing high intensity discharge lamps. The housings are one-piece, diecast 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. The Circa may be ordered with a decorative acrylic rod shaped to follow the contour of luminaire illuminated at each end by light emitting diode (LED) illuminator assemblies in your choice of five (5) colors. Luminaires accept nine interchangeable, rotatable precision segmented optical systems which provide high light levels, uniform illumination and cutoff of glare and light trespass.

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

ORDERING

PREFIX	CONFIGURATION	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	LED RING	OPTIONS
<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	<i>Standard arm without any RPA mounts to round poles from 3.85" to 4.5" OD.</i>
CR25	Large Circa	

CONFIGURATION

1	Single Assembly	3@120	Triple at 120°
2	Twin Assembly	4	Quad Assembly
2@90	Twin Assembly at 90°	W	Wall Mount, Recessed J-Box
3	Triple at 90°	WS	Wall Mount, Surface Conduit

DISTRIBUTION

Horizontal Lamp

1	Type I, Horizontal Lamp
2XL	Type II, Horizontal Lamp
3XL	Type III, Horizontal Lamp
4XL	Type IV, Horizontal Lamp
5H	Type V, Horizontal Lamp

Vertical Lamp

2XLV	Type II, Vertical Lamp
3XLV	Type III, Vertical Lamp
4XLV	Type IV, Vertical Lamp
5V	Type V, Vertical Lamp

All luminaires with Vertical lamp optics require a sag glass lens, and a conical-shaped top housing extension.

WATTAGE

CR20	CR25
100MH	250MH⁹ 250PSMH⁶
150MH^{2,3}	400MH 320PSMH⁷
175MH	350PSMH
200MH^{2,4}	200HPS 400PSMH⁷
250MH^{1,5,9}	250HPS
	400HPS
100HPS	
150HPS	

- Horizontal lamp optics only
- Not available in 480V.
- ANSI M102
- Vertical lamp optics only.
- Type 1 and Type 5H utilize E-28 lamp. Types 2XL, 3XL and 4XL require the E-18 lamp.
- M138 or M153
- M132 or M154
- M135 or M155
- Not Available with 347V

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

VOLTAGE

120	277	
208	347	<i>347V not available with 250MH.</i>
240	480	

RING

LER	Red	LEG	Green
LEO	Orange	LEB	Blue
LEA	Amber		

FINISH

BRP	Bronze Paint
BLP	Black Paint
WP	White Paint
NP	Natural Aluminum Paint
OC	Optional Color Paint
	<i>Specify RAL designation ex: OC-RAL7024.</i>
SC	Special Color Paint
	<i>(Specify. Must supply color chip.)</i>

OPTIONS

F	Fusing <i>In Head.</i>	RPA1	3" Round Pole Adapter <i>Required for 3" OD round or tapered round poles where top OD is less than 3.85".</i>
LF	In-Line/In-Pole Fusing	RPA2	5" and 6" Round Pole Adapter <i>Required for 5"-6" OD round poles</i>
PC	Photocontrol and Receptacle <i>N/A with 480V.</i>	PTF2	Pole Top Fitter - 2 3/8" - 3" Dia. Tenon
PCR	Photocontrol Receptacle only	PTF3	Pole Top Fitter - 3 - 3 1/2" Dia. Tenon
HS	Internal Houseside Shield	PTF4	Pole Top Fitter - 3 1/2 - 4" Dia. Tenon
QS¹⁰	Quartz Standby	SPA	Square Pole Adaptor <i>2 3/4" OD Minimum Pole Width</i>
QST¹⁰	Quartz Standby - Timed Delay <i>10. 400 watt HID maximum.</i>	MA	Mast Arm Mounting Kit (Internal) <i>Requires 2 3/8" OD Mast Arm</i>
SG	Sag Glass Lens <i>In lieu of flat glass.</i>	TB	Terminal Block

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 XL optical system is protected by U.S. patent number 5690422.

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79115-120/0607

CIRCA

CR20 AND CR25 AREA LUMINAIRES WITH LED RING

SPECIFICATIONS

GENERAL DESCRIPTION: The Gardco Circa product line is a low profile, curvilinear cutoff luminaire utilizing high intensity discharge lamps. The housings are one-piece, diecast 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 five (5) interchangeable, rotatable precision segmented optical systems which provide high light levels, uniform illumination and 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 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 (1), II (2XL), III (3XL), IV (4XL), and V (5H). 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 250w metal halide lamps are mogul base. All other CR20 lampholders are medium base.

LED RING: The luminaire shall be provided with a decorative acrylic rod shaped to follow contour of luminaire illuminated at each end by light emitting diode (LED) illuminator assemblies.

The rod will have reflective coating causing an even brightness along its length resembling luminous tube lighting. There shall be no breaks, discrete spots, or other discontinuities

visible in the intended viewing angle of 60° to 90° above nadir.

The method of rod attachment to luminaire shall allow for thermal expansion and contraction from -70° to +120°F (-57° to +49°C) without causing damage to the assembly. The rod shall not use adhesives for any structural support.

The illuminator assembly at each end shall consist of a polycarbonate thermoplastic housing which encloses LEDs. The housing shall be potted with a water-clear compound, after assembly, which will totally encapsulate all components to protect against water and other environmental contamination.

Electrical supply powering each illuminator directly or indirectly shall be 30 volts RMS or less and be supplied by an isolation transformer. Primary wavelengths for the available colors shall be: Red - 626-635 nm; Orange - 605-609 nm; Amber - 590-592 nm; Green - 520-525 nm; Blue - 465-470 nm.

ELECTRICAL: All electrical components are UL recognized, factory tested, and mounted on a unitized plate with quick electrical disconnects. Each high power factor ballast is the separate component type capable of providing reliable lamp starting down to -20°F/-29°C.

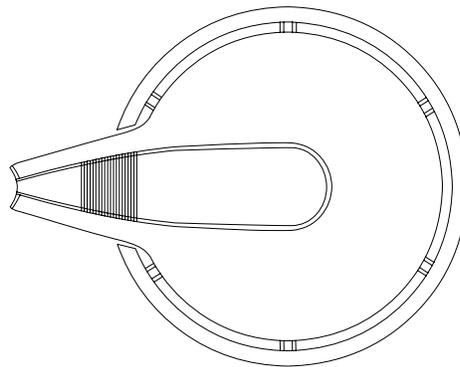
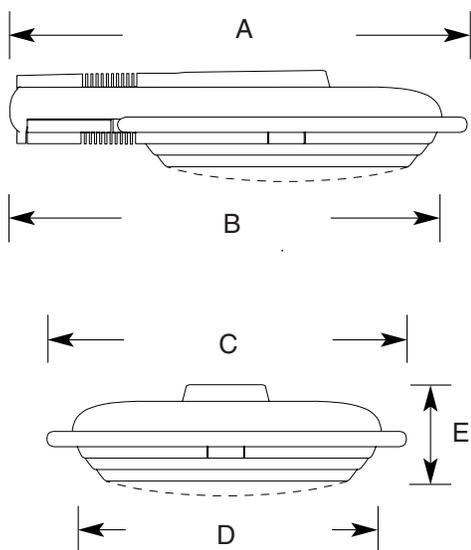
FINISH: Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) textured polyester powdercoat finish. Units are thoroughly cleaned and provided with a patented chromate acid pretreatment. Standard colors include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

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



	EPA			
	Single	Twinn	3-4 way	
CR20	Flat Lens	.60 ft ²	1.20 ft ²	1.63 ft ²
		.06 m ²	.11 m ²	.15 m ²
Sag Lens		.62 ft ²	1.25 ft ²	1.70 ft ²
		.06 m ²	.12 m ²	.16 m ²
CR25				
Flat Lens		.85 ft ²	1.70 ft ²	2.3 ft ²
		.08 m ²	.16 m ²	.21 m ²
Sag Lens		1.10 ft ²	2.20 ft ²	3.1 ft ²
		.10 m ²	.20 m ²	.29 m ²

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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