

# ELDEMA CG AND CR SERIES NEON C-LITES

## CR SERIES-NEON LAMP WITH BUILT-IN-RESISTOR CG SERIES-NEON LAMP ONLY

Eldema neon C-lites come in two basic types-CG series with the neon lamp built into the cartridge but requiring an external resistor and CR series, with the lamp and current limiting resistor built into the cartridge. Neon C-Lites only come in clear (transparent) lens colors due to their low light output. The water clear (WC) lens color should be specified when the neon C-Lites is used with a DH lampholder and lens cap. The CR01 conforms to MS18236 and the CR04 to MS18237 requirements



### ORDERING INFORMATION

To order Eldema neon C - Lites refer to The table at right and specify the style Lens color-Cartridge finish and lamp Or lamp/Resistor number.

#### Example Part Number

CG03-RCS-N120  
CR03-WCS-N117

#### CHOICE OF LAMP

High brightness lamps offer the best Indication and require 110 volts AC Or 150 volts DC for their operation. The current is less than 1.5 MA with A 33K resistor in series with the lamp.

The standard brightness lamps require Less than 0.6 MA current and operate On 90 volts DC or 65 volts AC with a 100K resistor in series with the lamp.

The special component lamps are comparable To the standard brightness lamps selected for The firing voltages listed.

#### RECOMMENDED RESISTOR VALUES

The lower the resistor value, the greater The light output but the life rating Decreases. The standard life ratings Is the best compromise for most Applications. Listed below are the Approximate life ratings for operation on 110-125 volts AC and recommended resistor.







#### HIGH BRIGHTNESS LAMPS

Standard life - 25,000 hours - 33K  
Medium life - 3,000 hours - 22K

#### STANDAR BRIGHTNESS LAMPS

Standard life - 15,000 Hrs - 100K  
Medium life - 5,000 Hrs - 56K  
Long Life - 25, 00 Hrs - 150K

The last digit in the Lamp/resistor number Designates the resistor value as follows:  
CG style 0 - (none)  
CR style (1 - 22K, 4 - 56K, 8 -150 K)  
Other resistor values on special order

| CG SERIES STYLE   | LENS COLOR  | FINISH  | LAMP NUMBER  |
|---|---|---|--|
| <br><b>CG01</b><br>Dome                    | Clear Colors only<br><br>AC - Amber<br>CC - Cloudy<br>RC - Red<br>WC - Water clear<br>YC - Yellow<br>BC - Blue clear<br>GC - Green clear<br><br>Cloudy Clear (CC) is the shade of white most suitable for Neon Lamps. | <b>S</b> - Clear Anodize (standard)<br><br><b>B</b> - Black Anodize (special) | <b>Standard Neon Lamps</b><br><b>N110</b> - Standard Brightness<br><br><b>N120</b> - High Brightness   |
| <br><b>CG93 &amp; CG03</b><br>Short Flat   |   |   | <b>Special Component Lamps</b><br>(available in CG01 and CG04 Only)<br><br><b>N210*</b> - Firing Voltage 72+/- 8 VDC<br><br><b>N220*</b> - Firing Voltage 72+/- 4 VDC<br><br><b>N230*</b> - Firing Voltage 80 VDC Max.   |
| <br><b>CG04</b><br>Long Flat             |   |   |  |
| CR SERIES STYLE   | LENS COLOR  | FINISH  | LAMP/ RESISTOR NUMBER  |
| <br><b>CR01</b><br>Dome                  | Same As above   | Same As above   | STANDARD NEON LAMPS<br><br><b>N114</b> - Standard Brightness Medium Life (56K)<br><br><b>N117</b> - Standard Brightness Standard Life (100K)<br><br><b>N118</b> - Standard Brightness Long life (150K)<br><br><b>N121</b> - High Brightness Medium Life (22K)<br><br><b>N123</b> - High Brightness Standard Life (33K) |
| <br><b>CR93 &amp; CR03</b><br>Short Flat |   |   |  |
| <br><b>CR04</b><br>Long Flat             |   |   |  |

\* the special component lamps are longer than the indicator style lamps and require the long CG01 and CG04 lens shape. These lamps are available with a built-in resistor in the long CN series