

# COOPER LIGHTING - SURE-LITES®

## DESCRIPTION

The GC Series combines a clean, sleek contemporary appearance with state-of-the-art electronics. Specifically designed for initial and retrofit installations where a recessed unit is required to minimize overhead obstacles and maximize aesthetics. The unit is ideal for locations with limited wall space and where panoramic positioning is necessary for the ceiling mounted lampholders to provide proper light distribution. Ideal for stores, offices, hospitals and school corridors.

Catalog #		Type
Project		
Comments		Date
Prepared by		

## SPECIFICATION FEATURES

### Electronic

- Dual Voltage Input 120/277 VAC, 60 Hz
- Line-latching,
- Solid-state Voltage Limited Charger
- Solid-state Switching
- Low-Voltage Disconnect
- Brownout Circuit
- Overload/Short Circuit Protection
- Test Switch/Power Indicator Light

### Battery

- Sealed Nickel Cadmium
- Maintenance-Free, Long-Life
- Full Recharge Time, 24 hrs. (max.)
- Color Coded Leadwires

### Housing Construction

- 20-Gauge Die-Formed Steel
- Knockout, Conduit or Cord Set
- Flanged for Mounting in Grid Type Suspended Ceilings
- Above ceiling access required for maintenance
- Single modular electrical connector
- White Powder Coat Finish

### Code Compliance

- UL 924 Listed
- Life Safety NFPA 101
- NEC/OSHA
- Most State and Local Codes

### Warranty

- Unit: 1-year
- Battery: 15-year pro-rata

### Head/Lamp Data

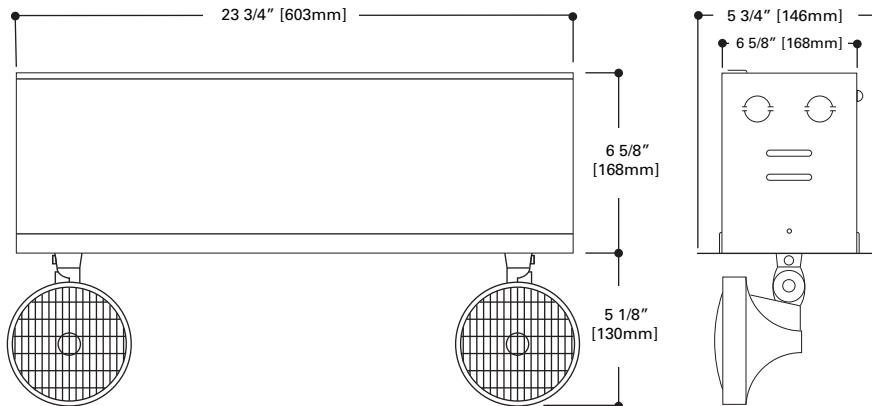
- Two Heads Standard
- Glare-Free Lens
- Fully Adjustable
- Remote Capability
- High Impact - Thermoplastic
- Matches Housing Finish



## GC SERIES

12 VOLT

SEALED NICKEL  
CADMIUM BATTERY  
EMERGENCY LIGHTING



## ELECTRICAL RATINGS

Model	Rated Wattage to 87 1/2% of Rated D.C. Voltage					Lamp Information		
	DC Voltage	1 1/2 Hours	2 Hours	3 Hours	4 Hours	Type	Wattage	Number
GC15172	12	30	24	16	12	Incandescent	9	29-86
GC15182	12	48	36	24	20	Incandescent	9	29-86

TOTALLY PREDICTABLE  
**RELIABILITY**

## ORDERING INFORMATION

Series	Options <sup>1,2</sup>	Accessories <sup>5</sup>
GC15172	V- Voltmeter <sup>3</sup>	Protective Housing
GC15182	SD- Self Diagnostics <sup>4</sup>	WG12- Wire Guard
	TDM- Time Delay Monitor	WG17- Wire Guard for use with CL heads
		VK1- Voltmeter

Notes: 1 Add as a suffix. 2 Consult your Cooper Lighting Representative for alternate lamps and additional options. 3 Provisions for one meter only. 4 Self Diagnostics (GC15122, GC15132, GC15172, GC15182 only) 5 Order separately.

## ENERGY DATA

### GC15172

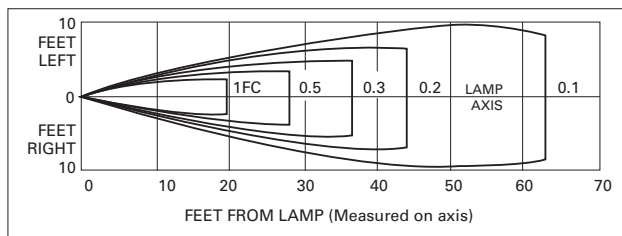
Input Current (Max.):  
120V= .13A  
277V= .06A

### GC15182

Input Current (Max.):  
120V= .15A  
277V= .07A

## PHOTOMETRICS

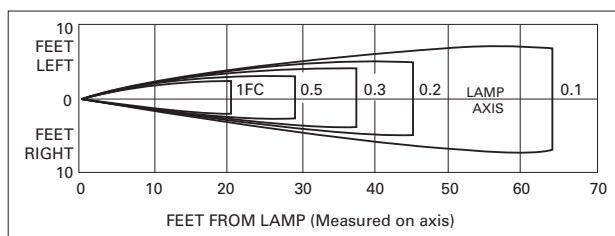
## Horizontal Distribution



Lamp No. 29-86

Initial Lumens – 29-86 @ 138

## Vertical Distribution



Lamp No. 29-86

## TECHNICAL DATA

## Heads

The lamp housing is constructed of flame-resistant and impact-resistant injection molded thermoplastic with matching finish. The three dimensional swivel assembly permits approximate aiming adjustment from 80° vertical and 358° rotation. The placement is secured with a lockable pivot mounted on a rotating base ring.

## Lamps

Designed specifically for emergency lighting applications, the PAR 36 sealed beam type design insures optimum glarefree light distribution along with horizontal and vertical adjustment by rotating the lens within the housing.

## Housing

The rugged 20-gauge die-formed cold rolled steel housing is finished with white corrosion-resistant polyester powder coat paint. Cabinet has knockouts in side for AC/DC wiring connections and has universal mounting pattern. Removable full width cover provides easy above-ceiling access to batteries and electronics.

## Line-Latched

Sure-Lites' line-latched electronic circuitry makes installation easy and economical. A labor efficient AC-activated load switch prevents the lamps from turning on during installation to a non-energized AC circuit. Line-latching eliminates the need for a contractor's return to a job site to connect the batteries when the building's main power is permanently turned on.

## Solid-State Charger

Supplied with a 120/277 VAC, voltage regulated solid-state charger. Immediately upon restoration of AC current after a power failure, the charger provides a high charge rate. The charge circuit reacts to the condition of the battery and alters the rate of charge in order to maintain peak battery capacity and maximize battery life. Solid-state construction recharges the battery following a power failure in accordance with UL 924.

## Overload and Short Circuit Protection

The solid-state overload monitoring device in the DC circuit disconnects the lamp load from the battery should excessive wattage demands be made and automatically resets when the overload or short circuit is removed. This overload current protective feature eliminates the need for fuses or circuit breakers for the DC load.

## Brownout Circuit

The brownout circuit in Sure-Lites' units monitors the flow of AC current to the unit and activates the emergency lighting system when a predetermined reduction of AC power occurs. This dip in voltage will cause most ballasted fixtures to extinguish causing loss of normal lighting even though a total power failure has not occurred.

## Solid-State Transfer

The unit incorporates a solid-state switching transistor which eliminates corroded and pitted contacts or mechanical failures associated with relays. The switching circuit is designed to detect a loss of AC voltage and automatically energizes the lamps. Upon restoration of the AC power, the emergency lamps will switch off and the charger will automatically recharge the battery.

## Low-Voltage Disconnect

When the battery's terminal voltage falls below 80% of the rated voltage, the low-voltage circuitry disconnects the lighting load. The disconnect remains in effect until normal utility power is restored, preventing deep battery discharge.

## Test Switch/Power Indicator Light

Conveniently located Test Switch allows for manual verification of proper operation of the transfer circuit and emergency lamps. The Power Indicator Light provides visual assurance that the AC power is on.

## Sealed Nickel Cadmium Battery

Sure-Lites sealed nickel cadmium batteries are maintenance-free with a life expectancy of 15 years. The sealed rechargeable nickel cadmium battery utilizes positive and negative sintered plate construction which offers high discharge rates and stable performance over a wide range of temperatures. The specially designed resealable vent automatically controls cell pressure, assuring safety and reliability. This battery is best suited for harsh ambient temperatures because the electrolyte is not active in the electrochemical process. The nickel cadmium battery can be operated from 0°C to 50°C.

## Warranty

All Sure-Lites' units are backed by a firm one-year warranty against defect in material and workmanship (excluding lamps). Maintenance-free, long-life, sealed lead calcium batteries carry a five-year pro-rata warranty.