

# 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	
Prepared by	Date

## 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

### Housing Construction

20 Gauge Die-Formed Steel  
Knockout, Conduit or Cord Set  
Flanged for Mounting in Grid Type Suspended Ceilings  
Single Modular Electrical Connector  
White Finish

### Battery

Sealed Lead Calcium, Recombination  
Maintenance Free, Long Life  
Full Recharge Time, 24 hrs. (max.)  
Polarized Battery Terminals  
Provides Minimum 2 Hour Emergency Illumination

### Code Compliance

UL 924 Listed  
Life Safety NFPA 101  
NEC/OSHA  
Most state and local codes  
City of Chicago Approval No. 3238

### Warranty

Unit – 1 year  
Battery – 5 year pro-rata

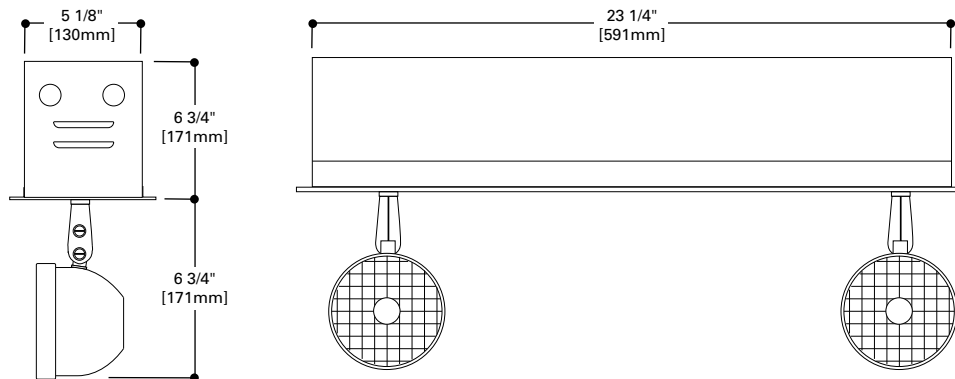
### Head/Lamp Data

Two Heads Standard  
Glare-Free Lens  
Fully Adjustable  
Remote Capability  
Metal Heads available in round or cylinder styles  
Halogen Lamps Standard  
Matches housing finish



## GC SERIES

**Chicago Code  
Emergency  
Lighting**



## ELECTRICAL RATINGS

Model	Rated Wattage to 87 1/2% of Rated D.C. Voltage				Lamp Information		
	DC Voltage	2 Hours	3 Hours	4 Hours	Type	Wattage	Number
GC15072	6	24	18	14	Halogen	12	29-15
GC15072CL <sup>1</sup>	6	24	18	14	Halogen	12	29-15
GC15082	6	48	36	28	Halogen	12	29-15
GC15082CL <sup>1</sup>	6	48	36	28	Halogen	12	29-15

TOTALLY PREDICTABLE  
**RELIABILITY**

**ENERGY DATA**  
GC15072, GC15072CL, GC15082,  
GC15082CL  
Input Current (Max.):  
120V= .12A  
277V= .05A

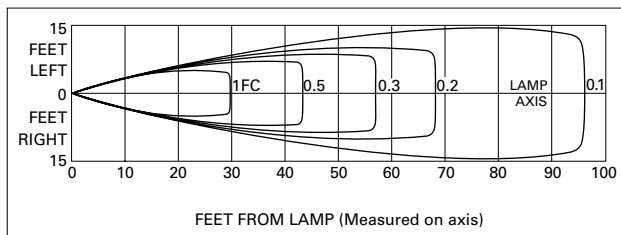
## ORDERING INFORMATION

SAMPLE NUMBER: GC15072V

<b>GC</b>	<b>Options</b> (add as suffix)	<b>Accessories</b> (order separately)
<b>Model Number</b> GC15072 GC15072CL GC15082 GC15082CL	<b>Alternate Lamps:</b> Consult Cooper Lighting Representative  A=Ammeter SD=Self Diagnostics (GC-1507-2, GC-1507-2CL Only) TDM=Time Delay Monitor V=Voltmeter <b>Other Options:</b> Consult Cooper Lighting Representative	VK1=Voltmeter WG12=Wire Guard

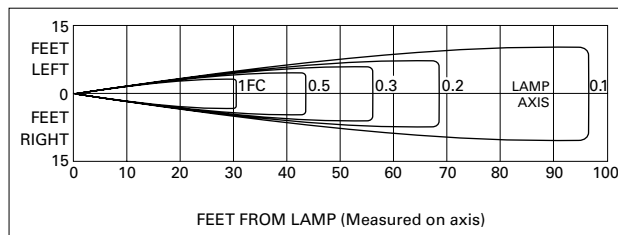
## PHOTOMETRICS

## Horizontal Distribution



Lamp No. 29-15  
Initial Lumens – 29-15 @ 302

## Vertical Distribution



Lamp No. 29-15

## TECHNICAL DATA

**Heads**

All metal formed aluminum lampheads available in round or cylinder styles. The die cast metal 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 glare-free 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. 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 Lead Calcium Battery**

The fully sealed, long life, maintenance free lead calcium battery is ideal for emergency lighting applications. These recombinant cycle batteries typically provide eight to ten years of life and may be operated in any position.

**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.