

COOPER LIGHTING - SURE-LITES®

DESCRIPTION

The LM Series is an emergency light packaged in an attractive, flame-resistant metal housing. High-impact thermoplastic PAR36 heads permit unrestricted unit placement and easy beam positioning. The unit of choice for installations where the size and cost of emergency lighting must be kept to a minimum without sacrificing dependability or light output.

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

Housing Construction

- 18-Gauge Die-Formed Steel
- Knockout, Conduit or Cord Set

- Universal J-Box
- Mounting Pattern
- Keyhole Mounting Slots
- White Finish

Battery

- Sealed Lead Calcium, Recombination
- Maintenance-free, Long-life
- Full Recharge Time, 24 hrs. (max.)
- Polarized Battery Terminals

Code Compliance

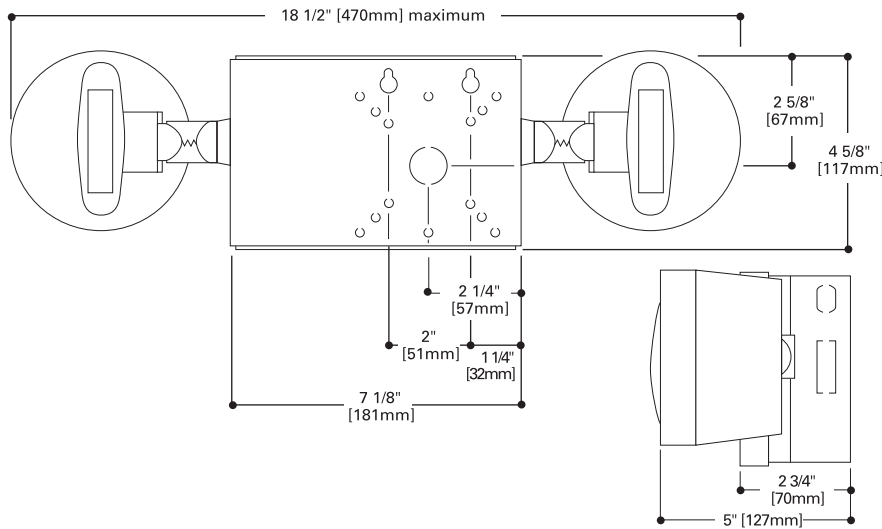
- UL 924 Listed
- Life Safety NFPA 101
- NEC/OSHA
- Most State and Local Codes

Warranty

- Unit: 1-year
- Battery: 5-year pro-rata

Head/Lamp Data

- Two (2) PAR 36 type lamps
- Two Heads Standard
- Side Mounted
- Glare-Free Lens
- Fully Adjustable
- High Impact - Thermoplastic
- Matches Housing Finish



ELECTRICAL RATINGS

Rated Wattage to 87 1/2% of Rated D.C. Voltage

Model	DC Voltage	1 1/2 Hours	2 Hours
LM1	6	10.8	7.2

Lamp Information

Type	Wattage	Number
Incandescent	5.4	029-121

ORDERING INFORMATION

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Series
LM1

Notes: 1 Order separately.

Accessories ¹

Mounting Kit

1BRWH: Mounting Brackets (2) White

Protective Housing

WG2: Wire Guard

VS1: Polycarbonate Vandal Shield

VS1WP: Polycarbonate Vandal Shield - Weatherproof

VK1: Voltmeter



**LM1
SERIES**

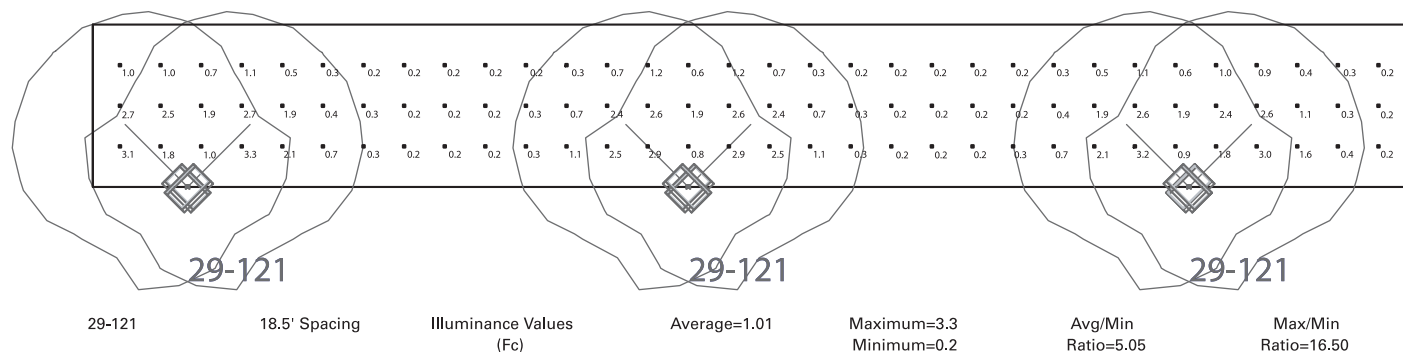
**DOUBLE HEAD
METAL BODY
EMERGENCY LIGHTING**

TOTALLY PREDICTABLE
RELIABILITY

ENERGY DATA

Input Current (Max.):
120V= .12A
277V= .05A

PHOTOMETRICS



NOTES

The "Rule of Thumb" spacing guidelines are designed to achieve 1 foot-candle average and 0.1 foot-candle minimum with a 40:1 maximum/minimum ratio. The corridor used is 100 feet long, 9-foot ceiling with a 6-foot wide walkway and 3-foot path of egress. The reflectances are 80% ceiling, 50% walls and 20% floors. The fixture mounting height is 8.5 feet. Cooper Lighting assumes no responsibility for local requirements or specific project variables. This is a guideline to be used as a design aid, not as guarantee of any code compliance.

TECHNICAL DATA

Heads

The lamp housing is constructed of flame- 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 glare-free trapezoidal light distribution along with horizontal and vertical adjustment by rotating the lens within the housing.

Housing

The rugged 18-gauge die-formed steel housing is finished with an attractive white corrosion-resistant polyester powder coat paint. Cabinet has keyhole mounting slots and knockouts in rear and side for AC/DC wiring connections and has universal mounting pattern. Side knockout accepts VK-1 accessory voltmeter.

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.