

# COOPER LIGHTING - SURE-LITES®

## DESCRIPTION

The ideal unit for environments where an emergency lighting unit will be exposed to water spray, penetrating steam, or dampness. The UMB Series is best suited for use in areas like waste water treatment plants, food processing facilities and most industrial applications.

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 Lead Calcium, Recombination
- Maintenance-Free, Long-Life
- Full Recharge Time, 24 hrs. (max.)
- Polarized Battery Terminals

### Housing Construction

- UL listed NEMA 4X Fiberglass
- Watertight and Corrosion Resistant
- Gasketed, Internally Hinged Front Cover
- Corrosion Resistant Grey Finish
- All units come standard with a breather vent

### Code Compliance

- UL 924 Listed
- Life Safety NFPA 101
- NEC/OSHA
- Wet Location Listed - For 32°F or 0°C and above
- Most State and Local Codes
- NEC/OSHA
- Wet Location Listed - or 32°F or 0°C and above
- Most State and Local Codes

### Warranty

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

### Head/Lamp Data

- Two Top Mounted Heads Standard
- Glare-Free Lens
- Fully Adjustable
- PAR 36 Sealed Beam
- Remote Capability
- High Impact Thermoplastic
- Matches Housing Finish



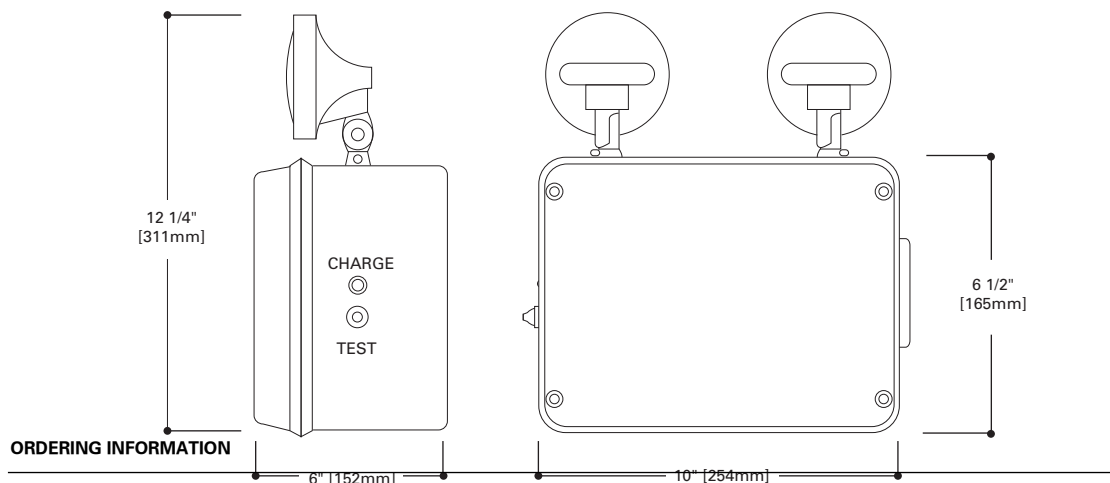
## UMB SERIES

WET LOCATIONS

SEALED LEAD CALCIUM  
BATTERY

EMERGENCY LIGHTING

TOTALLY PREDICTABLE  
**RELIABILITY**



## ORDERING INFORMATION

Series	Options <sup>1</sup>	Accessories <sup>2</sup>
UMB1	TDM: Time Delay Monitor	Protective Housing
UMB6	TH: Thermal Heater for Battery Compartment (For Use w/Lead Calcium Exits)	WG7: Wire Guard
UMB7		VS2WP: Polycarbonate Vandal Shield - Weatherproof
UMB8		
UMB9		

Notes: 1 Alternate Lamps, Finishes and Options available. Consult your Cooper Lighting Representative. 2 Order separately.

## ENERGY DATA

### UMB1, UMB6, UMB7

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

### UMB8, UMB9

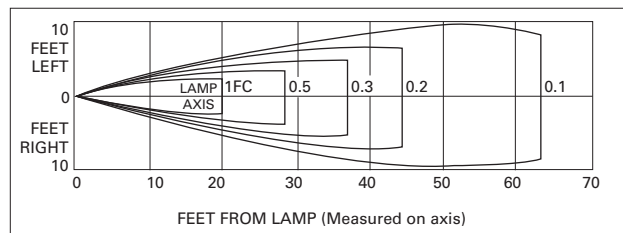
Input Current (Max.):  
120V= .30A  
277V= .13A

## ELECTRICAL RATING

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
<b>UMB1</b>	<b>6</b>	<b>18</b>	<b>15</b>	<b>10</b>	<b>8</b>	Incandescent	<b>8</b>	<b>29-03</b>
<b>UMB6</b>	<b>6</b>	<b>27</b>	<b>24</b>	<b>18</b>	<b>14</b>	Incandescent	<b>8</b>	<b>29-03</b>
<b>UMB7</b>	<b>6</b>	<b>54</b>	<b>48</b>	<b>36</b>	<b>28</b>	Incandescent	<b>8</b>	<b>29-03</b>
<b>UMB8</b>	<b>12</b>	<b>36</b>	<b>30</b>	<b>20</b>	<b>16</b>	Halogen	<b>8</b>	<b>29-16</b>
<b>UMB9</b>	<b>12</b>	<b>54</b>	<b>48</b>	<b>36</b>	<b>28</b>	Halogen	<b>8</b>	<b>29-16</b>

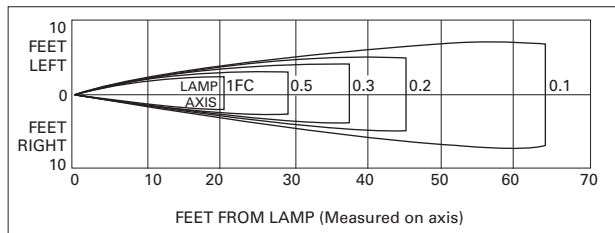
## PHOTOMETRICS

## Horizontal Distribution



Lamp No. 29-03 or 29-49  
Initial Lumens – 29-03 @ 108  
29-49 @ 111

## Vertical Distribution



Lamp No. 29-03 or 29-49

## TECHNICAL DATA

## Heads

The lamp housing is constructed of flame-resistant and impact-resistant injection molded thermoplastic with matching grey finish. The three dimensional swivel assembly permits 80° aiming adjustment from vertical and approximately 358° rotation. The placement is secured with a lockable pivot mounted on a rotating base ring. Heads and swivels are silicon sealed to prevent moisture from entering housing.

## Lamps

Designed specifically for emergency lighting applications, the PAR 36 sealed beam lamps insure optimum glare-free trapezoidal light distribution along with horizontal and vertical adjustment by rotating the lamp within the housing.

## Housing

The rugged industrial grey fiberglass housing is both watertight and corrosion-resistant. Gasketed cover is internally hinged and housing is equipped with a breather vent.

## 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 rubber booted Test Switch allows for manual verification of proper operation of the transfer circuit and emergency lamps. A sealed light emitting diode (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.