

# COOPER LIGHTING - SURE-LITES®

## DESCRIPTION

The ideal dependable unit for environments where an emergency lighting unit will be exposed to small amounts of water spray or penetrating steam and 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	
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

UL Listed NEMA 4X Fiberglass  
Watertight and Corrosion Resistant  
Gasketed, Internally Hinged Front Cover

Corrosion Resistant  
Grey Finish

### Battery

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

### 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

### Warranty

Unit – 1 year  
Battery – 15 year pro-rata

### Head/Lamp Data

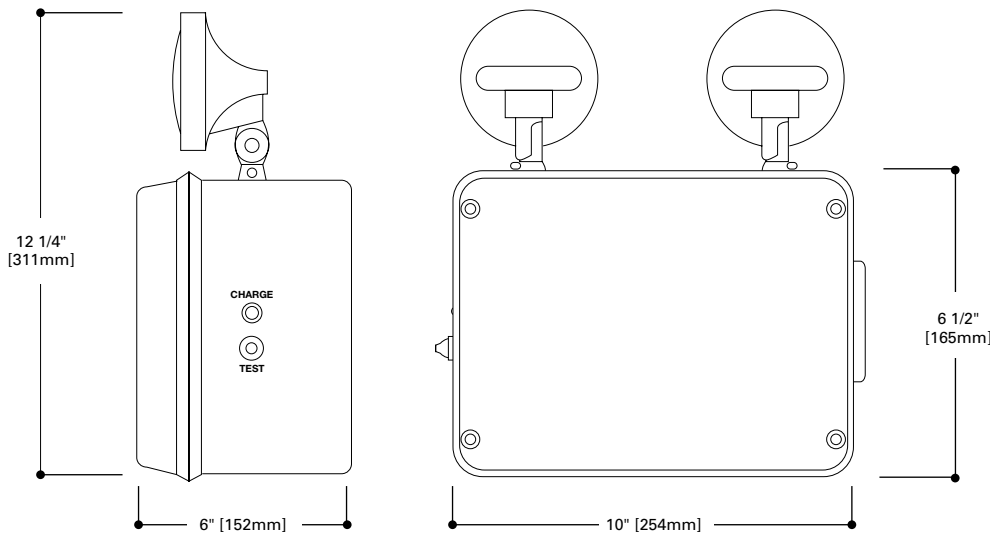
Two Top Mounted Heads Standard  
Glare-Free Lens  
Fully Adjustable  
PAR 36 Sealed Beam  
Remote Capability  
High Impact – Thermoplastic  
Matches Housing Finish



## UMB SERIES

**WET LOCATION  
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
<b>UMB14</b>	<b>6</b>	<b>15</b>	<b>12</b>	<b>8</b>	<b>6</b>	Incandescent	<b>7.2</b>	<b>29-75</b>
<b>UMB15</b>	<b>6</b>	<b>24</b>	<b>18</b>	<b>12</b>	<b>10</b>	Incandescent	<b>7.2</b>	<b>29-75</b>
<b>UMB16</b>	<b>12</b>	<b>30</b>	<b>24</b>	<b>16</b>	<b>12</b>	Halogen	<b>8</b>	<b>29-16</b>
<b>UMB17</b>	<b>12</b>	<b>48</b>	<b>36</b>	<b>24</b>	<b>20</b>	Halogen	<b>8</b>	<b>29-16</b>

## ORDERING INFORMATION

SAMPLE NUMBER: UMB16TH

<b>UMB</b>	<b>Options</b> (add as suffix)	<b>Accessories</b> (order separately)
	<p><b>Model Number</b> UMB14 UMB15 UMB16 UMB17</p> <p><b>TDM</b>=Time Delay Monitor <b>TH</b>=Thermal Heater</p> <p><b>Alternate Lamps:</b> Consult Cooper Lighting Representative <b>Other Options:</b> Consult Cooper Lighting Representative</p>	<p><b>WG7</b>=Wire Guard <b>VS2WP</b>=Polycarbonate Vandal/Weather Shield</p>

TOTALLY PREDICTABLE  
**RELIABILITY**

## ENERGY DATA

### UMB14

Input Current (Max.):  
120V= .06A  
277V= .03A

### UMB15

Input Current (Max.):  
120V= .07A  
277V= .04A

### UMB16

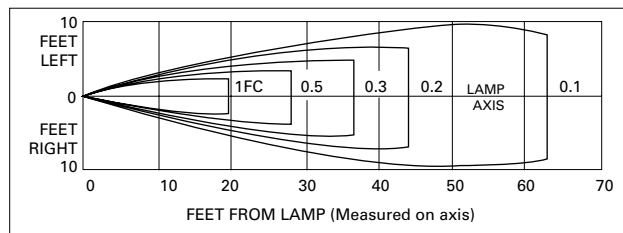
Input Current (Max.):  
120V= .13A  
277V= .06A

### UMB17

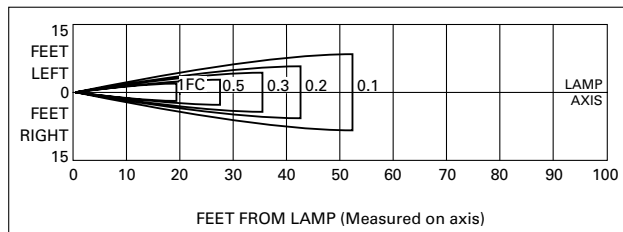
Input Current (Max.):  
120V= .15A  
277V= .07A

## PHOTOMETRICS

## Horizontal Distribution

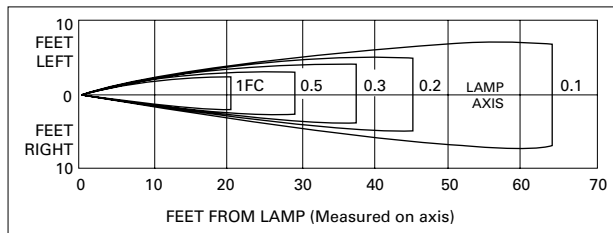


Lamp No. 29-49

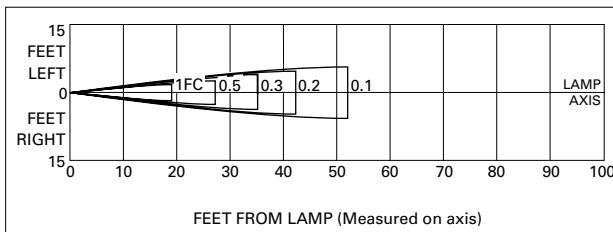


Lamp No. 29-75  
Initial Lumens – 29-75 @ 95  
29-49 @ 111

## Vertical Distribution



Lamp No. 29-49



Lamp No. 29-75

## 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 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.

## Warranty

All Sure-Lites' units are backed by a firm one year warranty against defect in material and workmanship (excluding lamps). Rechargeable, long life, sealed nickel cadmium batteries carry a fifteen-year pro-rata warranty.