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		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
- 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

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

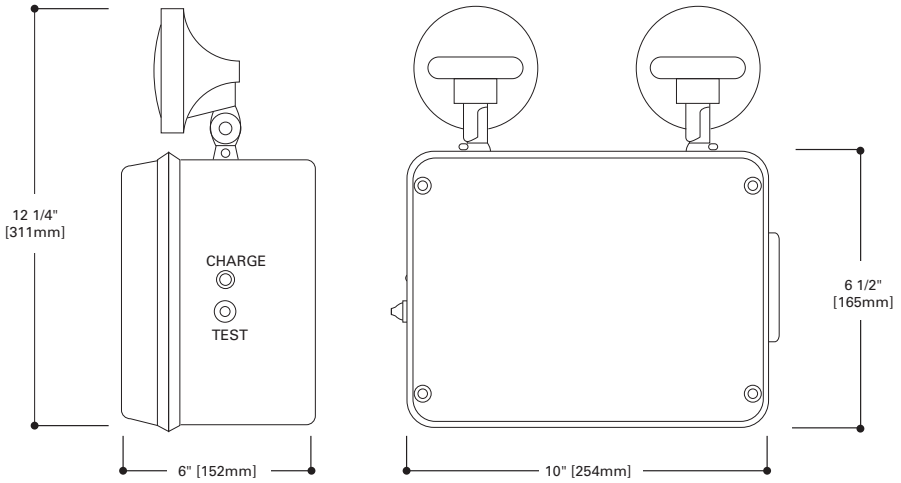
UMB
SERIES

WET LOCATIONS

SEALED NICKEL CADMIUM BATTERY

EMERGENCY LIGHTING

TOTALLY PREDICTABLE RELIABILITY.



ELECTRICAL RATINGS

Model	DC Voltage	Rated Wattage to 87 1/2% of Rated D.C. Voltage 1 1/2 Hours	2 Hours	3 Hours	4 Hours
UMB14	**6**	**15**	**12**	**8**	**6**
UMB15	**6**	**24**	**18**	**12**	**10**
UMB16	**12**	**30**	**24**	**16**	**12**
UMB17	**12**	**48**	**36**	**24**	**20**

Lamp Information Type	Wattage	Number
Incandescent	**7.2**	**29-75**
Incandescent	**7.2**	**29-75**
Halogen	**8**	**29-16**
Halogen	**8**	**29-16**

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

ORDERING INFORMATION

Series
UMB14
UMB15
UMB16
UMB17

Options [1]
TDM= Time Delay Monitor
TH= Thermal Heater for Battery Compartment (For Use w/Lead Calcium Exits)

Accessories [2]
Protective Housing
WG7= Wire Guard
VS2WP= Polycarbonate Vandal Shield - Weatherproof

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

COOPER Lighting
www.cooperlighting.com

Specifications and dimensions subject to change without notice.
Consult your representative for additional options and finishes.

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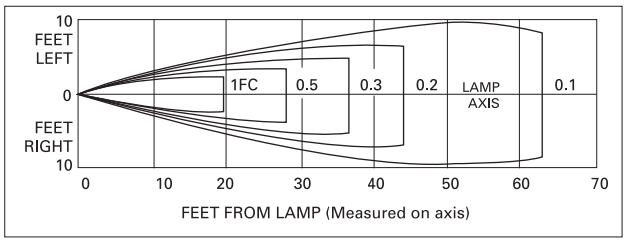
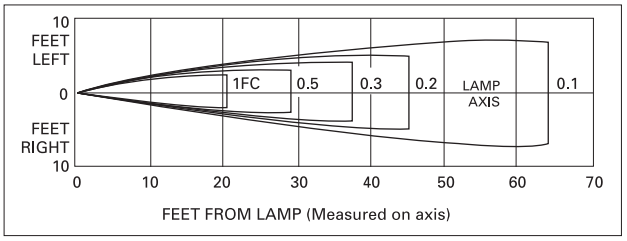
PHOTOMETRICS

Horizontal Distribution

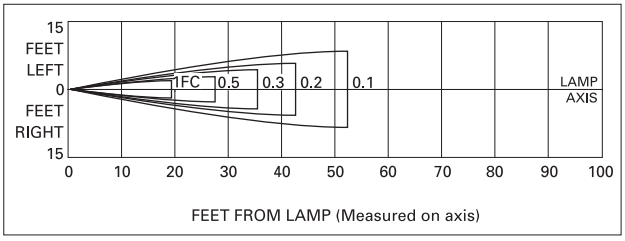


Lamp No. 29-49

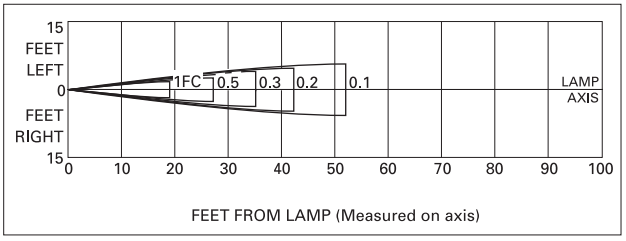
Vertical Distribution



Lamp No. 29-49



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



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 solidstate 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, longlife, sealed nickel cadmium batteries carry a fifteen-year pro-rata warranty.