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.

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

**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

**ORDERING INFORMATION**

**SAMPLE NUMBER:** UMB16TH

<table>
<thead>
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<th>Type</th>
<th>Lamp Information</th>
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<td>12</td>
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</table>

**Model Number**
- UMB14
- UMB15
- UMB16
- UMB17

**Options** (add as suffix)
- TDM=Time Delay Monitor
- TH=Thermal Heater
- WG7=Wire Guard
- VI52WP=Polycarbonate Vandal/Weather Shield

**Accessories** (order separately)
- Alternate Lamps: Consult Cooper Lighting Representative
- Other Options: Consult Cooper Lighting Representative

**UMBST**

**COOPER LIGHTING**
**PHOTOMETRICS**

**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.

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**Initial Lumens**

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<th>Lamp No.</th>
<th>Initial Lumens</th>
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**TECHNICAL DATA**

**Horizontal Distribution**

<table>
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<tr>
<th>FEET FROM LAMP (Measured on axis)</th>
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<tbody>
<tr>
<td>10 FEET LEFT</td>
</tr>
<tr>
<td>10 FEET RIGHT</td>
</tr>
<tr>
<td>0.1 0.2 0.3 0.5 1FC</td>
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</tbody>
</table>

**Vertical Distribution**

<table>
<thead>
<tr>
<th>FEET FROM LAMP (Measured on axis)</th>
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</thead>
<tbody>
<tr>
<td>10 FEET LEFT</td>
</tr>
<tr>
<td>15 FEET LEFT</td>
</tr>
<tr>
<td>0.1 0.2 0.3 0.5 1FC</td>
</tr>
</tbody>
</table>

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**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.