

COOPER LIGHTING - SURE-LITES®

DESCRIPTION

The Metrolite ML Series is the right choice for installations where aesthetics are a priority. With its white finish and sculptured compact design the product blends with the architecture. Matching remotes are available to insure a consistent appearance. The pleasing look is accompanied by a feature rich design that provides fully adjustable heads with high efficiency halogen lamps making it easy to direct ample light to the required areas. Each unit employs a quick mount universal back with hinged access for hassle free installation.

Catalog #	Type
Project	
Comments	
Prepared by	Date

SPECIFICATION FEATURES

Electronic

Dual-Voltage Input 120/277 VAC, 60 Hz
Line-Latching,
Low-Voltage Disconnect
Brownout Circuit
Test Switch
Red L.E.D. High Charge Indicator
Amber L.E.D. AC Power Indicator

Housing Construction

Injection-Molded, High-Impact, Thermoplastic Cover, Rated UL 94-5VA
Designer-White Textured Finish

18 GA Galvanized Steel Backplate with Universal J-Box Mounting Pattern and Keyhole Mounting Slots

Hinged to Cover for Easy Access

Battery

Sealed Lead Calcium or Nickel Cadmium
Maintenance Free, Long Life, Full Recharge Time, 24hrs. (max.)

Code Compliance

UL924 Listed
Life Safety NFPA 101
NEC/OSHA
Most State and Local Codes

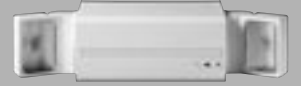
Warranty

Unit – 1 year

Battery –
Lead Calcium: 5 year Pro Rata,
Nickel Cadmium: 15 year Pro Rata

Head/Lamp Data

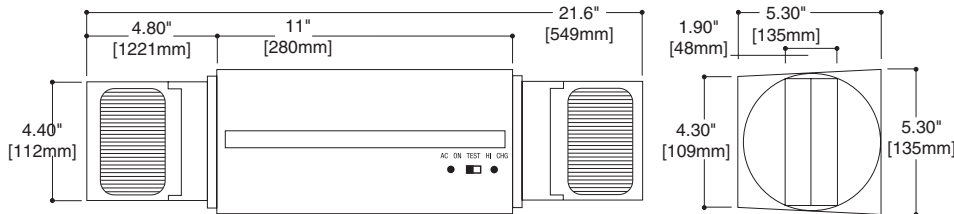
Two Heads, Side Mounted
Fully Adjustable
Matches Housing Finish
High Impact – Thermoplastic
Glare Free Lens
Two Halogen Lamps Standard



MLSERIES

SEALED LEAD CALCIUM
OR NICKEL CADMIUM
BATTERY

Emergency Lighting



ELECTRICAL RATINGS

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

Model	DC Voltage	1 1/2 Hours	Remote Wattage Available
ML1	6	25	0
ML2	6	50	26
ML3	12	50	26
ML4NC	6	14	0
ML5NC	12	28	0

Lamp Information

Type	Wattage	Number
Bi-Pin Halogen	12W ea	029-66
Bi-Pin Halogen	12W ea	029-66
Bi-Pin Halogen	12W ea	029-45
Bi-Pin Halogen	6W ea	029-12
Bi-Pin Halogen	12W ea	029-45

ORDERING INFORMATION

SAMPLE NUMBER: ML1

ML	Options (add as suffix)	Accessories (order separately)
<p>Model Number</p> <p>ML1</p> <p>ML2</p> <p>ML3</p> <p>ML4NC¹</p> <p>ML5NC¹</p>	<p>V = Voltmeter</p> <p>Alternate Lamps = Consult Cooper Lighting Representative</p>	<p>VS1 = Polycarbonate Vandal Shield</p> <p>WG12 = Wire Guard</p>

TOTALLY PREDICTABLE
RELIABILITY

ENERGY DATA

Input Current (Max.)

ML1, ML2, ML3

120V = .3A

277V = .1A

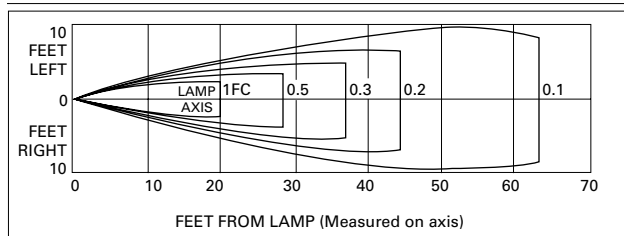
ML4NC, ML5NC

120V = .085A

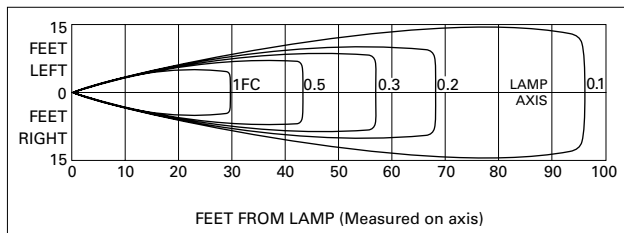
277V = .035A

PHOTOMETRICS

Horizontal Distribution

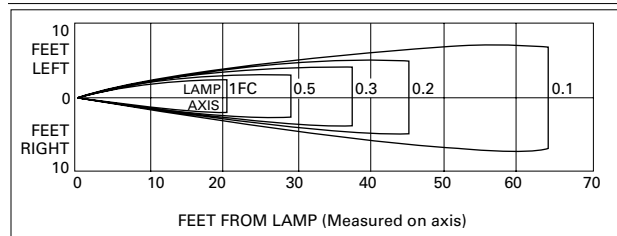


Lamp No. 29-12

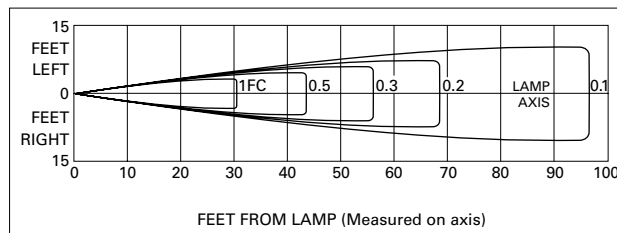


Lamp No. 29-45, 29-66
Initial Lumens – 29-12 @ 113
29-66 @ 302
29-45 @ 277

Vertical Distribution



Lamp No. 29-12



Lamp No. 29-45, 29-66

TECHNICAL DATA

Heads

Constructed of a flame retardant, impact resistant, injection molded thermoplastic. Fully adjustable with 355° rotation and 120° swivel.

Lamps

Designed specifically for emergency lighting applications. Bi-pin halogen type, 6V or 12V, mounted into a socket and covered by an impact resistant lens.

Housing

Thermoplastic, flame retardant front mounted to an 18 gauge galvanized steel back plate. The back is hinged to the front for easy installation.

Line-Latched

Sure-Lites' line-latched electronic circuitry makes installation easy and economical. A labor efficient AC-activated load switch prevents battery discharge during installation to a non-energized circuit. Line-latching eliminates the need for a contractor's return to a job site to reconnect 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.

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.

Low Voltage Disconnect

When the battery's terminal voltage falls below 80% of the rated voltage, the low voltage disconnect circuitry will instantaneously disconnect the lighting load. The disconnect remains in effect until normal utility power is restored, preventing deep battery discharge.

Test Switch/Power Indicator Light/High Charge Indicator

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. The High Charge Indicator lights up until the battery has reached it's maximum charge.

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.

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. The nickel cadmium battery can be operated from 0°C to 40°C.

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. Rechargeable, long life, sealed lead-calcium batteries carry a five year pro-rata warranty.