

COOPER LIGHTING - SURE-LITES®

DESCRIPTION

The XR Series is an efficient, rugged, commercial grade product designed for the demands of emergency lighting applications in this setting. Most units have the extra capacity to power remote heads for added application flexibility.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Battery

- Sealed Lead Calcium, Recombination or Sealed Nickel Cadmium
- Maintenance-Free, Long-Life
- Full Recharge Time 24 Hrs. (max.)
- Color Coded Lead Wires
- Polarized Battery Terminals
- Provides Minimum 1.5 Hour Emergency Illumination

Housing Construction

- 22-Gauge Die Formed Steel
- Knockout, Conduit or Cord Set
- Universal J-Box Mounting Pattern
- Keyhole Mounting Slots
- White Finish

Code Compliance

- UL 924 Listed
- Life Safety NFPA 101
- NEC/OSHA
- Most state and local codes
- City of Chicago Approval No. 3238

Warranty

- Unit: 5-year
- Battery: Sealed Lead Calcium (SLC) 5-year pro-rata Sealed Nickel Cadmium (SNC) 15-year pro-rata

Head/Lamp Data

- Two Heads Standard
- Top Mounted
- Glare-Free Lens
- Fully Adjustable
- Metal Heads with die cast metal swivel
- Halogen Lamp Standard
- Remote Capability
- Matches Housing Finish

Mounting Requirement

- Mount only on a vertical plane (i.e. wall mount, etc.)

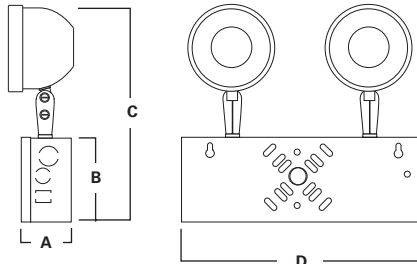


XR6C
XR1624C
XR16C
XR7C
XR9C

6 VOLT

SEALED LEAD
CALCIUM BATTERY
SEALED NICKEL
CADMIUM BATTERY

CHICAGO CODE
EMERGENCY LIGHTING



	A	B	C	D
XR6C	2-1/2" [64mm]	5" [127mm]	12" [305mm]	12-1/4" [311mm]
XR6C w/Options	2-1/4" [57mm]	4-1/2" [114mm]	11-1/4" [286mm]	12-1/4" [311mm]
XR7C	2-1/2" [64mm]	7-3/4" [197mm]	14-1/2" [368mm]	12-1/4" [311mm]
XR9C	2-1/2" [64mm]	10-5/8" [270mm]	17-1/2" [445mm]	14-1/2" [368mm]
XR9C w/Options	2-1/2" [64mm]	7-3/4" [197mm]	14-1/2" [368mm]	12-1/4" [311mm]
XR1624C	2-1/4" [57mm]	4-1/2" [114mm]	11-1/4" [286mm]	12-1/4" [311mm]
XR16C	2-1/4" [57mm]	4-1/2" [114mm]	11-1/4" [286mm]	12-1/4" [311mm]

ELECTRICAL RATINGS

Model	Type	BATTERY RATED WATTAGE TO 87-1/2% OF RATED D.C. VOLTAGE				LAMP INFORMATION		
		DC Voltage	1 1/2 Hrs	Lamp Watts	Remote Watts	Type	Wattage	Number
XR6C	SLC	6	27	24	3	Halogen	12	29-66
XR7C	SLC	6	36	24	12	Halogen	12	29-66
XR9C ¹	SLC	6	54	24	30	Halogen	12	29-66
XR1624C	SNC	6	24	24	0	Halogen	12	29-66
XR16C	SNC	6	50	24	26	Halogen	12	29-66

SLC=Sealed Lead Calcium SNC=Sealed Nickel Cadmium

TOTALLY PREDICTABLE
RELIABILITY

ORDERING INFORMATION

SAMPLE NUMBER: XR21GSD

Series	Options ^{2,3}	Accessories ⁶
XR6C XR7C XR9C ¹ XR1624C XR16C	V= Voltmeter ^{2,3} SD= Self Diagnostics ⁵ TDM= Time Delay Monitor Remote= Remote Unit	Mounting Kit 1MSWH= Mounting Shelf, White 1BRWH= Mounting Brackets (2) White Protective Housing WG1= Wire Guard VK1= Voltmeter

Notes: 1. XR9C is UL Listed for 4 hours with 24 watt lamp load only - No remote load. 2. Consult your Cooper Lighting Representative for alternate lamps and additional options. 3. Add as a suffix. 4. XR6C, XR1624 and XR16C housing have provisions for one meter only. 5. SD not available on XR7C, XR9C, XR16C. 6. Order separately.

ENERGY DATA

Input Current (Max.):

6-Volt

XR6C

120V= .21A

277V= .10A

XR7C

120V= .20A

277V= .09A

XR9C

120V= .21A

277V= .10A

XR1624C

120V= .08A

277V= .03A

XR16C

120V= .08A

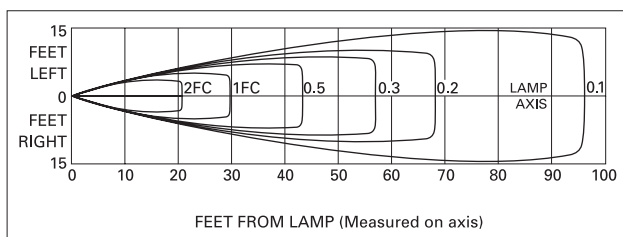
277V= .04A

Cooper Lighting

by **E.T.N**

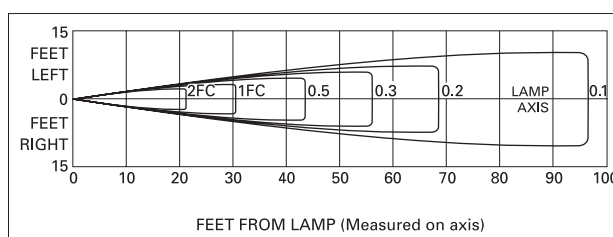
PHOTOMETRICS

Horizontal Distribution



Lamp No. 29-45 and 29-66
Initial Lumens 302

Vertical Distribution



Lamp No. 29-45 and 29-66

TECHNICAL DATA

Heads

All metal formed aluminum lampheads. The die cast metal three dimensional swivel assembly permits approximate aiming adjustment from 80° vertical and 358° rotation. The placement is secured with a lockable pivot mounted on a rotating base ring.

Lamps

Designed specifically for emergency lighting applications, the PAR 36 sealed beam type design insures optimum glare-free light distribution along with horizontal and vertical adjustment by rotating the lens within the housing. Tungsten halogen lamps maximize light output with lower wattage.

Housing

The rugged 22-gauge die-formed cold rolled steel housing is finished with white corrosion-resistant polyester powder coat paint. Cabinet has keyhole mounting slots and knockouts in rear and side for AC/DC wiring connections and has universal mounting pattern.

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 combination Test Switch/Power Indicator Light allows for manual verification of proper operation of the transfer circuit and emergency lamps.

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 and utilize positive and negative sintered plate construction with polypropylene separators offering high discharge capability and stable performance over a wide range of temperatures. The specially designed resealable vent automatically controls cell pressure, assuring safety and reliability. The commercial grade nickel cadmium battery can be operated in ambient temperatures of 0° to 50°C and still provide a minimum of 1 1/2 hours of illumination.

Warranty

This Sure-Lites' product is backed by a firm five year warranty against defect in material and workmanship (excluding lamps). Maintenance-free, long-life, sealed nickel cadmium batteries carry a 15-year pro-rata warranty. Maintenance-free, long-life, sealed lead calcium batteries carry a 5-year pro-rata warranty.