

COOPER LIGHTING - SURE-LITES®

DESCRIPTION

An attractive, compact emergency lighting unit, the ST1 is packaged in a flame-resistant metal housing. It is ideal for providing emergency lighting in commercial and institutional environments where appearance and ease of installation are critical.

Approved for use in the City of Chicago.

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

Housing Construction

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

Battery

- Sealed Lead Calcium, Recombination
- Maintenance-Free, Long-Life
- Full Recharge Time, 24 hrs. (max.)
- Polarized Battery Terminals

Code Compliance

- UL 924 Listed
- Life Safety NFPA 101
- NEC/OSHA
- City of Chicago Approval Number 0590E
- Most State and Local Codes

Warranty

- Unit: 1-year
- Battery: 5-year pro-rata

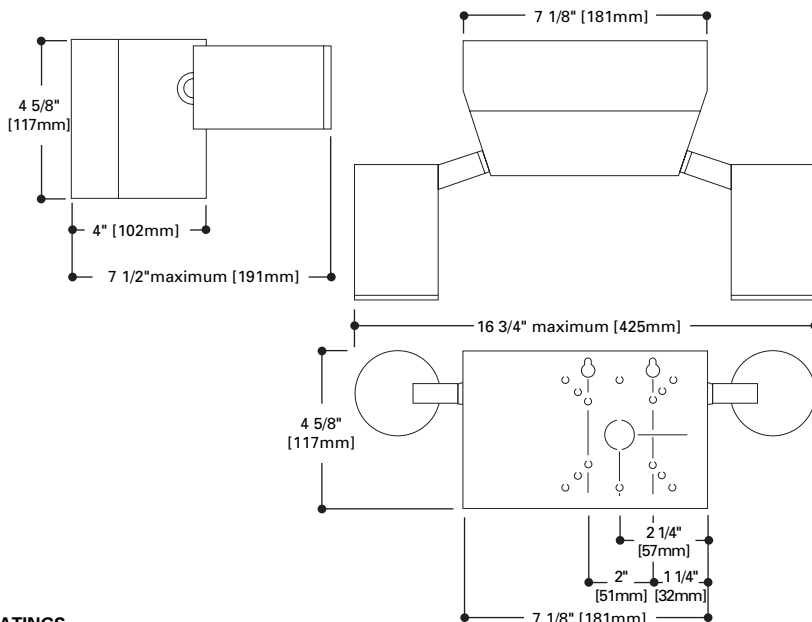
Head/Lamp Data

- Tungsten Halogen Standard
- Two Heads Standard
- Side Mounted
- Glare-Free Lens
- Fully Adjustable
- Metal Cylindrical Lamp Housings
- Matches Housing Finish
- Operates at least 2 hours in emergency mode with standard lamps



ST1 SERIES

DOUBLE HEAD SMALL
CYLINDER EMERGENCY
LIGHT SEALED LEAD
CALCIUM BATTERY
Chicago Code
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	Type	Wattage	Number
ST1	6	27	24	Tungsten Halogen	12	29-66

ORDERING INFORMATION

SAMPLE NUMBER: ST 1

ST1	
Model Number ST1	Accessories (order separately) 1BRWH=Mounting Brackets (2) - White 1MSWH=Mounting Shelf - White VK1=Voltmeter WG9=Wire Guard

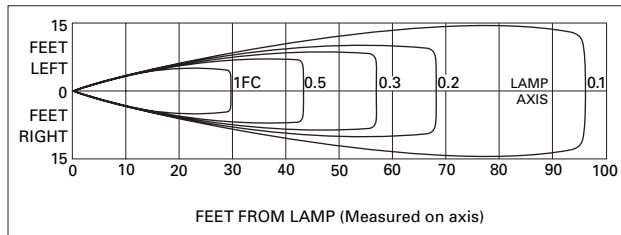


ENERGY DATA

Input Power:
120V= .12A
277V= .05A

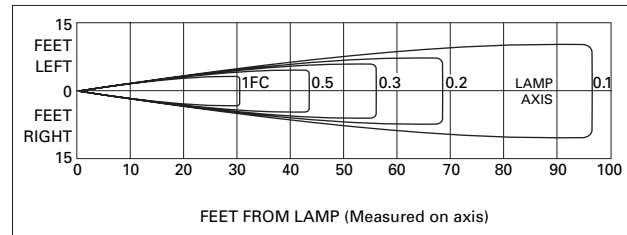
PHOTOMETRICS

Horizontal Distribution



Lamp No. 29-66
Initial Lumens – 29-66 @ 302

Vertical Distribution



Lamp No. 29-66

TECHNICAL DATA

Heads

The lamp housing is metal. The swivel assembly permits 90° aiming adjustment from vertical and approximately 358° rotation.

Lamps

Designed specifically for use with 6V 12W Halogen bi-pin lamps. Lamps are mounted in a metal reflector/socket assembly and covered with a glass lens.

Housing

The rugged 18-gauge die-formed steel housing is finished with an attractive 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 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 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.

Sealed Lead Calcium Battery

The fully sealed, long-life, maintenance-free lead calcium battery is ideal for emergency lighting applications. These recombinant cycle batteries provide eight to ten years of life and may be operated in any position.

Warranty

All Sure-Lites' units are backed by a firm one-year warranty against defect in material and workmanship (excluding lamps). Maintenance-free, long-life, sealed lead calcium batteries carry a five-year pro-rata warranty.