

COOPER LIGHTING - SURE-LITES®

DESCRIPTION

The Sure-Lites CU unit represents the next generation of emergency lighting. Sure-Lites has combined its dependable performance with a visually pleasing design. The PRESTO™ unit is designed to harmonize with today's decor in commercial and public spaces. Injection molded from high impact plastic

PRESTO™ is "contractor friendly." The unique wiring module makes installation a snap. All AC wiring connections are made with the polarized wiring module and there is no need to juggle the unit in place. PRESTO™ may be ceiling or wall mounted, horizontally or vertically, and may be installed to a standard junction box or to surface mounted conduit.

Long life battery and solid-state engineering provide trouble free operation. Two 5.4W wedge base incandescent lamps in locking specular reflectors appear to float in clear acrylic domes for distortion free lighting. Fully adjustable, locking lampheads with diffusing lens cover.

Catalog #	Type
Project	
Comments	
Prepared by	Date

SPECIFICATION FEATURES

Electronic

Dual Voltage Input 120/277 VAC, 60 Hz, Isolation Transformer
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

Injection Molded High Impact Plastic
Knockout for Surface Mounted Conduit

Polarized Wiring Module
Universal J-Box Mounting Pattern
Tether Straps for Easy Installation
White Finish Standard, Optional Black Finish

Battery

Sealed Lead Calcium, Recombination
Maintenance Free, Long Life
Full Recharge Time:
CU-1: 24 hrs. (max.)
CU-1-HD: 48 hrs. (max.)
Polarized Battery Terminals

Code Compliance

UL 924 Listed

CSA Certified
Life Safety NFPA 101
NEC/OSHA
Most State and Local Codes

Warranty

Unit - 1 year
Battery - 5 year pro-rata

Head/Lamp Data

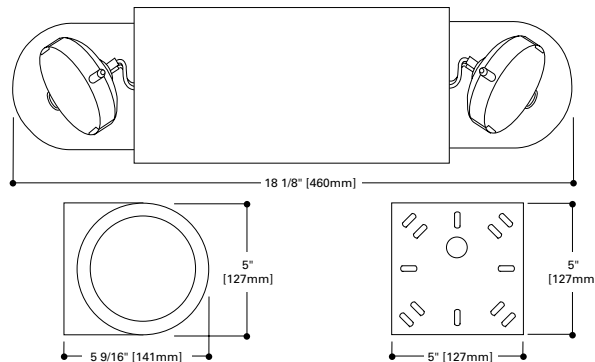
Clear Acrylic Domes for Distortion Free Lighting
Optional Vandal Resistant Polycarbonate Domes
Fully Adjustable, Locking
Diffusing Lens Cover Eliminates Glare
Remote Capability



CU SERIES

PRESTO™ THERMOPLASTIC EMERGENCY LIGHT

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	3 Hours	Type	Wattage	Number
CU1	6	10.8	7.2	-	Incandescent	5.4	29-121
CU1HD	6	22	16	11	Incandescent	5.4	29-121
CU1347	6	10.8	7.2	-	Incandescent	5.4	29-121
CU1HD347	6	22	16	11	Incandescent	5.4	29-121

ORDERING INFORMATION

SAMPLE NUMBER: CU1PCL

CU1	Options (add as suffix)	Accessories (order separately)
Model Number CU1 CU1HD CU1NC CU1347 CU1HD347	A=Ammeter B=Black Finish PCL=Polycarbonate Domes SD=Self-Diagnostics TDM=Time Delay Monitor V=Voltmeter Alternate Lamps ⁽¹⁾ (Wedge base & Krypton only) Other Options ⁽¹⁾	WG19 =Wire Guard VS1=Polycarbonate Vandal Shield VS1WP=Polycarbonate Vandal Shield - Weatherproof

NOTES:
(1) Consult your Cooper Lighting Representative.
(2) 347=347V for Canada.



ENERGY DATA

Input Current (Max.):

CU1, CU1HD

120V=.12A

277V=.05A

CU1347(2)

120V=.14A

347V=.06A

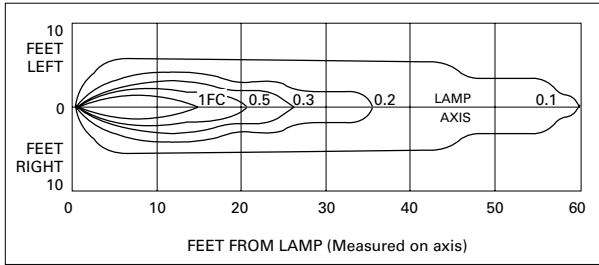
CU1HD347(2)

120V=.18A

.347V=.07A

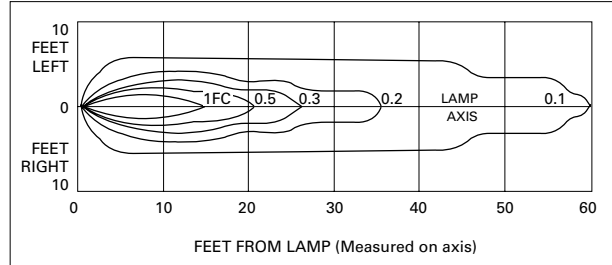
PHOTOMETRICS

Horizontal Distribution



Lamp No. 29-121
Initial Lumens – 29-121 @ 75

Vertical Distribution



Lamp No. 29-121

TECHNICAL DATA

Lamps

Two 5.4W wedge base incandescent lamps in specular reflectors with diffusing lens cover. Lamps and reflector assembly may be adjusted 180° horizontally and 180° vertically. Ratcheting washer and serrated dome provide positive lamp aiming.

Housing

Injection molded high impact housing in white or optional black finish. Separate wiring module installs to junction box – no need to juggle housing in position while making AC connections. Wiring module connects to housing with polarized plug. Tether straps support housing in position for future maintenance. Clear domes, made of standard acrylic or optional vandal resistant polycarbonate, provide distortion free lighting. Knockouts provided for surface conduit mounting. PRESTO may be wall or ceiling mounted horizontally or vertically.

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 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.

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.