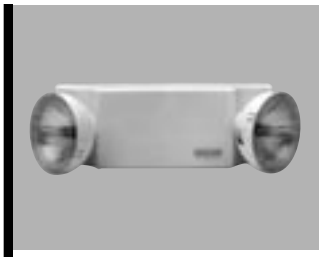
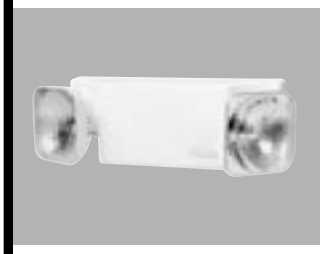
COOPER LIGHTING - SURE-LITES®

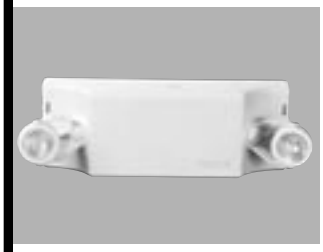
DESCRIPTION

The CC Series Contractor's Choice Emergency Lighting Unit is the ideal choice where simple installation and a thermoplastic housing are demanded. Its contemporary round corner styling, designer white finish, and consistent family appearance enables it to blend with any decor. The components are injection molded from tough polycarbonate materials which resist discoloration due to age and ultraviolet radiation. The injection molded structural components are reinforced with ribs throughout. The housing and mounting plate employ snap-fit construction; reliable and labor-saving push-in AC connectors further improve the installation time. The under 2-minute installation time of the CC Series Emergency Lighting Unit makes it the fastest installed unit on the market today. Both lighting heads are fully adjustable, insuring that light can be put where it is neeeded. A variety of battery capacities satisfies a wide range of applications. The CC Series Emergency Lighting Units are ideal complements for use with the CCX Series Contractor's Choice Exits.

Catalog #	Type
Project	
Comments	
Prepared by	Date







SPECIFICATION FEATURES

Electronic
Dual Voltage Input 120/277 VAC, 60Hz
Line-latching
Solid-state Voltage Limited Charger
Solid-state Switching
Brownout Circuit
Low Voltage Disconnect
Overload/Short Circuit Protection
Test Switch / Power Indicator Light
Push-in AC power connectors facilitate installation

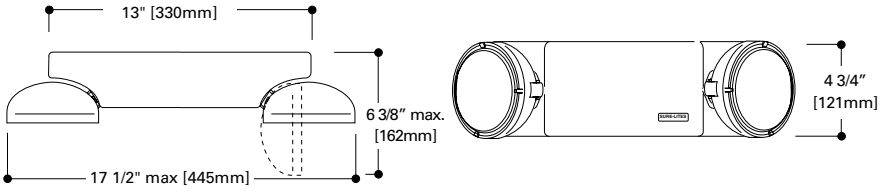
Housing Construction
All components are injection molded, color stable, high impact UL 94-5VA rated polycarbonate material
Designer white textured finish standard; black finish optional
Components are of snap-fit construction to facilitate under 2-minute installation
Reinforcing ribs throughout to provide maximum strength
Tether straps between housing and mounting plate facilitate installation
Cutouts provided in housing for surface conduit attachment
Suitable for wall or ceiling mount applications
Universal J-box mounting pattern
Keyhole mounting slots

Battery
Sealed Lead Calcium, recombination
Nickel Cadmium Battery (CC3NC)
Maintenance free, long life
Full recharge time: 24 hrs. (max.)
Polarized battery terminals

Code Compliance
UL 924 Listed
UL Damp Location Listed (CC5; CC5.SD only)
Life Safety NFPA 101
CSA Certified
NEC/OSHA
Most State and Local Codes

Warranty
Exit – 1 year
Lead Acid Battery – 5 year pro-rata
Nickel Cadmium Battery – 15 year pro-rata

Head / Lamp Data
Two heads standard
PAR 36 type heads
Glare-free lens
Fully adjustable lamp housing
High impact polycarbonate
Matches housing finish
Optional square and MR16 heads available



ELECTRICAL RATINGS

	Rated Wattage to 87 1/2% of Rated D.C. Voltage					Lamp Information			
Model	DC Voltage	1 1/2 Hours	2 Hours	3 Hours	4 Hours	Type	Wattage	Number	Spacing[3]
CC3	**6**	**10.8**	**-**	**-**	**-**	Incandescent	**5.4**	**29-121**	**18.5'**
CC3NC[1]	**6**	**16**	**-**	**-**	**-**	Incandescent	**5.4**	**29-121**	**18.5'**
CC3	**6**	**10.8**	**-**	**-**	**-**	MR16	**5**	**29-139**	**18.0'**
CC4	**6**	**18**	**15**	**10**	**8**	Incandescent	**9**	**29-84**	**22.0'**
CC4	**6**	**18**	**15**	**10**	**8**	MR16	**9**	**29-145**	**35.0'**
CC4NC[1]	**6**	**18**	**-**	**-**	**-**	Incandescent	**9**	**029-84**	**22.0'**
CC5	**6**	**27**	**24**	**18**	**14**	Incandescent	**9**	**29-84**	**22.0'**
CC5	**6**	**27**	**24**	**18**	**14**	MR16	**9**	**29-145**	**35.0'**
CC5NC[1]	**6**	**24**	**-**	**-**	**-**	Incandescent	**9**	**029-84**	**22.0'**
CC6	**6**	**32**	**-**	**-**	**-**	Incandescent	**9**	**29-84**	**22.0'**
CC6	**6**	**32**	**-**	**-**	**-**	MR16	**9**	**29-145**	**35.0'**

ORDERING INFORMATION

SAMPLE NUMBER: CC5WHSD

Model Number
CC3
CC3NC
CC4
CC4NC
CC5
CC5NC
CC6

Housing Finish (must be specified)
WH=White
BK=Black

Options (add as suffix)
MRT=MR16 Heads (5W Standard CC3, CC3NC; 9W Standard CC4, CC5, and CC6) Other lamp wattages available. Consult factory.
SQ=Square Head (5.4W Standard) Other lamp wattages available. Consult factory.
A[2]=Ammeter
SD=Self Diagnostics (CC5SD Standard damp location)[4], [5]
V[2]=Voltmeter
TDM=Time Delay Monitor
Other Options=Consult your Cooper Lighting Representative

Accessories (order separately)
WG1=Wire Guard
WG2=Wire Guard (use for heads adjusted at 45° or greater)
VS1=Polycarbonate Vandal Shield
VS1WP=Polycarbonate Vandal Shield - Weather Resistant
CSK120=Cord Set 120V

[1]Nickel Cadmium Battery, Alternate Lamps, No Head / One Head, Other Options: Consult Factory. [2]Provision for one meter only. [3]The "Rule of Thumb" spacing guidelines are designed to achieve 1 foot-candle average and 0.1 foot-candle minimum with a 40:1 maximum/ minimum ratio. The corridor used is 100 feet long, 9 foot ceiling with a 6 foot wide walkway and 3 foot path of egress. The reflectances are 80% ceiling, 50% walls and 20% floors. The fixture mounting height is 7.5 feet with a lamp head angle of 45 degrees. Cooper Lighting assumes no responsibility for local requirements or specific project variables. This is a guideline to be used as a design aid, not as guarantee of any code compliance. [4]Not available with CC6. [5]CC4NC, CC5NC not available in SD.

CC SERIES

SEALED LEAD CALCIUM BATTERY, NICKEL CADMIUM BATTERY

Emergency Lighting

TOTALLY PREDICTABLE RELIABILITY.

ENERGY DATA

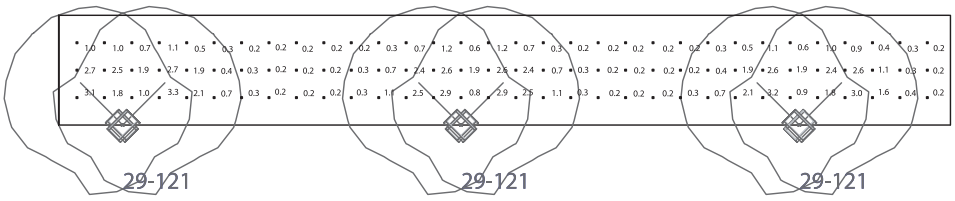
Model CC3
Input Current (Max.):
120V = .12A
277V = .05A

Model CC4
Input Current (Max.):
120V = .12A
277V = .05A

Model CC5
Input Current (Max.):
120V = .13A
277V = .06A

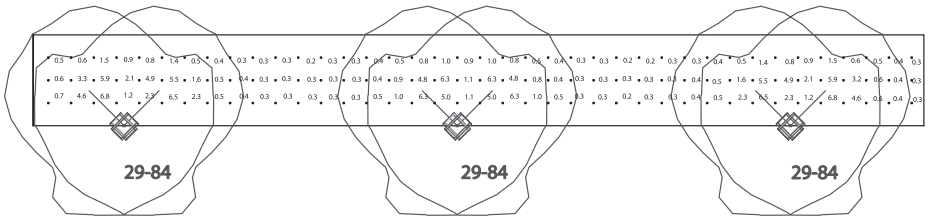
Model CC6
Input Current (Max.):
120V = .13A
277V = .06A

PHOTOMETRICS



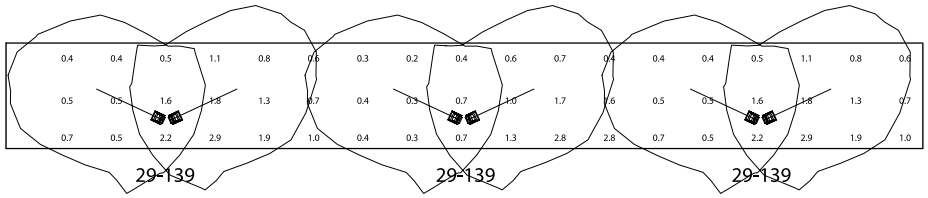
29-121	18.5' Spacing	Illuminance Values (Fc)	Average=1.01	Maximum=3.3 Minimum=0.2	Avg/Min Ratio=5.05	Max/Min Ratio=16.50

For Standard Fixture: CC3, CC3NC



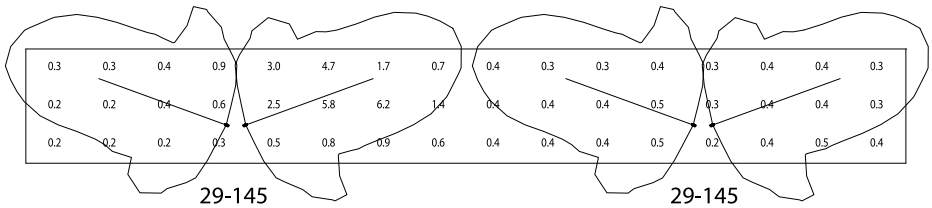
29-84	22' Spacing	Illuminance Values (Fc)	Average=1.55	Maximum=6.8 Minimum=0.2	Avg/Min Ratio=7.75	Max/Min Ratio=34.00

For Standard Fixture: CC4, CC5, CC6



29-139	18.0' Spacing	Illuminance Values (Fc)	Average=1.00	Maximum=2.9 Minimum=0.2	Avg/Min Ratio=4.95	Max/Min Ratio=14.50

For Standard Fixture: CC3MRT



29-145	35' Spacing	Illuminance Values (Fc)	Average=1.11	Maximum=7.8 Minimum=0.2	Avg/Min Ratio=5.55	Max/Min Ratio=39.00

For Standard Fixture: CC4MRT, CC5MRT, CC6MRT

TECHNICAL DATA

Lamps

Designed specifically for emergency lighting applications, the PAR 36 type design insures optimum glare-free trapezoidal light distribution along with horizontal and vertical adjustment by rotating the lens within the housing.

Housing Construction

Rugged, durable, injection molded polycarbonate materials are used throughout the CC Series Emergency Lighting Units. All structural components are designed with reinforcing ribs to add additional rigidity and to maximize structural integrity. These materials are impact and scratch resistant, and they have been UV stabilized to resist discoloration due to age and ultraviolet radiation. All components are designed to be of snap-fit construction - no mechanical fasteners - to facilitate installation in under 2-minutes. The housing contains hidden tearouts for surface conduit attachment. The housing is tethered to the mounting plate freeing both hands to make electrical connections. The mounting plate has keyhole mounting slots and a universal mounting pattern for quick, efficient installation.

Any components required for installation (wirenuts, wire leads, etc.) are all included with each unit. All CC Series Units are suitable for wall or ceiling mount applications.

TECHNICAL DATA

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

A test switch permits the activation of the emergency circuit for a complete operational system check. The Power Indicator Light provides 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 typically provide 8 to 10 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.