

Project		Catalog #		Type	
Prepared by		Notes		Date	



Sure-Lites

SELRA50 Recessed Emergency Light

Architectural UL 924 Emergency Light
Recessed Ceiling
Self-diagnostics

Typical Applications

Office • Education • Healthcare • Hospitality • Retail

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Top Product Features

- Emergency light with four 1 watt LED heads
- Adjustable LED heads provide up to 50' egress coverage
- Architectural recessed ceiling install with flush mount design
- Ships with rectangular and round trim rings
- Provides 90 minutes of emergency light with loss of AC power
- Labor saving self-diagnostics option automatically conducts required monthly NFPA testing
- High impact, thermoplastic housing and trims
- UL 924 damp location listed
- Universal input 120 - 277 VAC

Product Certification



T20 Certified to California
Title 20 Appliance Database

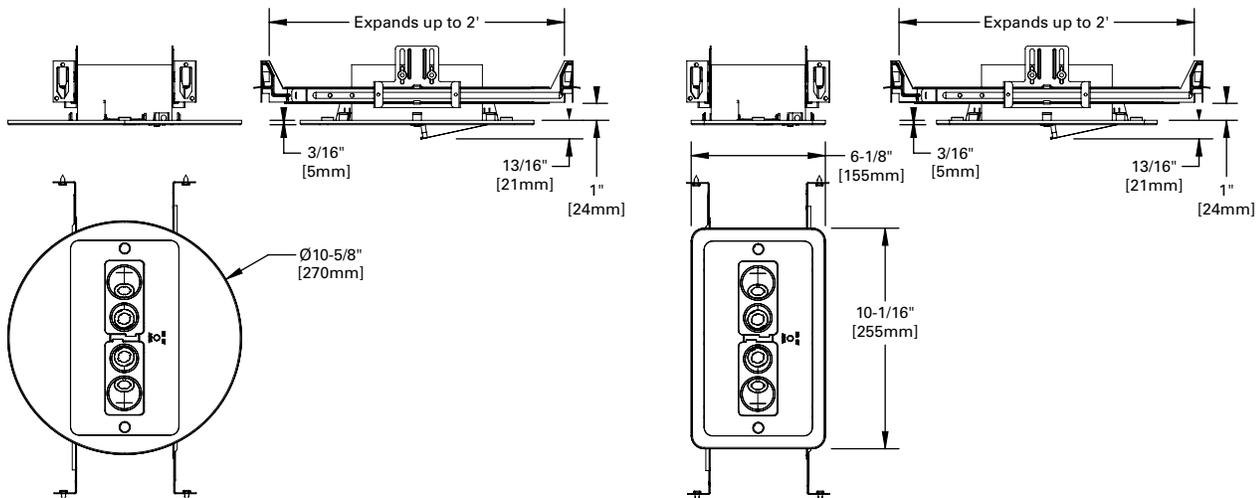


Product Features



Self-diagnostics

Dimensional Details



Ordering Information

SAMPLE ORDER NUMBER: **SELRA50, SELRA50SD**

Series	Mounting	Type	Coverage	Color	Self-diagnostics	Catalog
SEL=Sure-Lites Emergency Light	R=Recessed	A=Architectural	50=50 ft.	[Blank]=White	[Blank]=No Self-diagnostics SD=Self-diagnostics	SELRA50 SELRA50SD

Product Specifications

Electrical

- Universal Input 120 through 277 VAC
- Internal solid-state transfer switch automatically connects the internal battery to LED lamps
- 4.8V Battery back-up
- Self-diagnostics option
- Minimum 90 minutes emergency run time with loss of AC power

Environmental

- Damp location
- 10°C to 40°C (50°F to 104°F)

Housing Construction

- Injection molded, high impact, thermoplastic white housing and trim rings
- Ships with round trim installed and optional rectangular trim
- Aesthetically designed recessed flush mount housing
- All metal backbox
- Hangar bars adjust for up to 1" (24mm) grid or hard ceiling thickness

Battery

- Sealed Nickel Metal Hydride
- Full Recharge Time, 24 hours (max.)

Warranty

- Five-year product warranty
- Five-year pro-rated battery warranty

Code Compliance

- UL924 Damp Location Listed
- Life Safety NFPA 101
- NEC/OSHA
- Most State & Local Codes

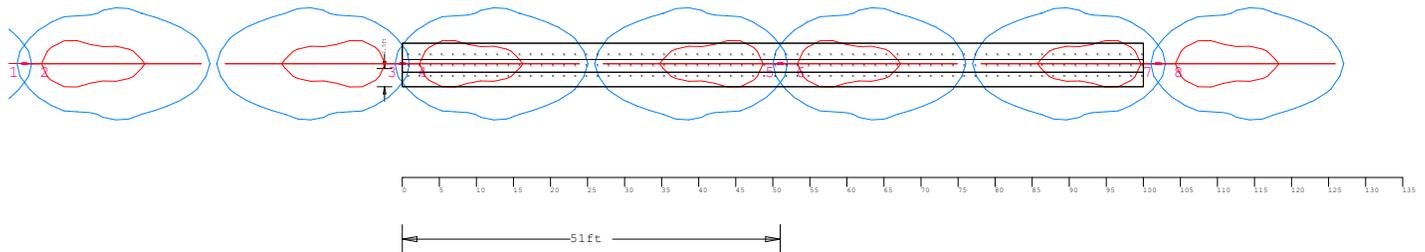
Electrical Data

Model	120V			277V		
	Power (W)	Current (A)	PF	Power (W)	Current (A)	PF
SELRA50	2.5	0.03	0.69	2.5	0.03	0.30
SELRA50SD	2.5	0.03	0.69	2.5	0.03	0.30

Photometry - Emergency Mode

SELRA50 SERIES

[View IES files](#)



X	Y	Z	Orient	Tilt
-51.2	3.2	9	180	12
-50.8	3.2	9	0	12
-0.2	3.2	9	180	12
0.2	3.2	9	0	12
50.8	3.2	9	180	12
51.2	3.2	9	0	12
101.8	3.2	9	180	12
102.2	3.2	9	0	12

Emergency Egress Coverage; Fixture Spacing ***

Catalog Number	Output Lumens per Head	8 ft. Height	9 ft. Height	10 ft. Height	12 ft. Height
SELRA50 / SELRA50SD	229	47 feet	51 feet	55 feet	52 feet

***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 room used is an open area, no walls, ceiling or floor with fixtures mounted at a given height over a 3 foot path of egress. No reflectance from walls or floors was assumed. The fixture mounting height in the image is 9 feet. Cooper Lighting Solutions 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

Technical Data

Optics

- Precision engineered adjustable LED lamp heads provide up to 50 feet of egress coverage
- Provides evenly diffused light pattern throughout the egress path for both 1 footcandle average and 0.1 footcandle minimum

Mechanical Housing

- High impact, thermoplastic housings and trims
- Metal recessed backbox
- Hanger bars provided for drywall or drop ceiling mounting
- Housing and trim color available in white

Brownout Circuit

- Monitors the flow of AC current
- Activates the emergency lighting system when a predetermined reduction/dip of AC power occurs (a dip in voltage will cause most ballasted products to extinguish, causing loss of normal lighting even though a total power failure has not occurred)

Low Voltage Disconnect

- Low-voltage circuitry disconnects the lighting load when battery's terminal voltage falls
- Disconnect remains in effect until normal utility power is restored, preventing deep battery discharge

Self-Diagnostics

- Automatically performs all tests required by UL924 and NFPA 101
- Indicates the status of the emergency light at all times using the LED indicator
- 90-minute battery power (emergency mode) simulation test occurs randomly once every 12 months
- 30-second battery power simulation test occurs every 30 days
- Solid-State microprocessor-based system has the ability to accurately detect and warn of system failures
- Incorporates all of the standard electronic features
- Systematically calibrates itself in the field, reducing installation labor and eliminating manual calibration errors

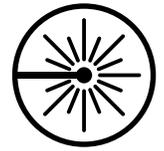
Battery

- Rechargeable Nickel metal hydride battery recharges in 24 hours
- Suitable for ambient temperatures 10°C to 40°C (50°F to 104°F)

Warranty

- Five-year warranty against defects in material and workmanship
- Nickel metal hydride battery has a five-year prorated warranty

Self-diagnostics Testing Operations



Self-diagnostics

The Sure-Lites Self-diagnostics is continuously monitoring your emergency fixture, and will signal any failure through the two color indicator LED.

Initial Operation:

When the unit is first powered up, the lamp heads may briefly illuminate and then it will go into a 24 hour fast charge, indicated by the indicator LED alternating between red and green. Once the unit has fully charged, it will perform a self-calibration, after which the LED will change to steady green, indicating the unit is fully charged and float charging the battery to maintain readiness.

Automatic Testing:

The unit will perform battery capacity, lamp/LED and charge circuit test:

- Every 30 days for 30 seconds.
- Every 180 days for 30 minutes.
- Every 365 days for 90 minutes.
- The LED lamp heads will turn ON during the above tests.

Manual Testing:

- 30-second Test - Press and release the test button once during float charge (steady green). The indicator LED will change to a blinking green to indicate the unit is performing a 30-second test of the batteries and lamps/LEDs
- 30-Minute Test – Press and release the test button twice (within 2 seconds) during float charge (steady green). The indicator LED will change to blinking green (2 blinks) to indicate the unit is performing a 30-minute test of the batteries and lamps/LEDs.
- 90-Minute Test – Press and release the test button thrice (within 2 seconds) during float charge (steady green). The indicator LED will change to blinking green (3 blinks) to indicate the unit is performing a 90-minute test of the batteries and lamps/LEDs.
- Canceling Test – Press the test button for three seconds and then release during the 30-second/30-minute/90-minute test (blinking green) to return the fixture to its original state (hi-charge or float charge).

Clearing Failure Codes:

- A battery failure (LED two blink red) can be cleared by replacing the battery. Or, starting a test and holding the test button for 6 seconds will reset the system and clear any error codes. However, the error will return if the battery is faulty.
- Lamp/LED failure (LED four blink red) will clear when the unit successfully passes a manual or automatic 30 second test. If the error persists after retesting contact your Cooper Lighting Solutions representative for assistance.

Indicators:

- LED Off - No power to unit, emergency mode.
- LED Alternating Red/Green - Unit is in fast charge state.
- LED Steady Green - Unit is fully charged and is float charging the battery to maintain readiness.
- LED Steady Red - Battery is disconnected.
- LED Green Blink - Unit is in test mode.
- LED One Blink Red - Unit has failed a charging test. The electronics likely need to serviced. See "Clearing Failure Codes" above.
- LED Two Blink Red - Battery has failed a capacity test, or the battery is disconnected. See "Clearing Failure Codes" above.
- LED Four Blink Red - Unit has failed lamp load test. LEDs may have been burned out and need to be serviced. See "Clearing Failure Codes" above.

Maintenance:

None required. Replace the batteries as needed according to ambient conditions. However, we recommend that the equipment be tested regularly in accordance with local codes.

SELF DIAGNOSTIC LEGEND

- (STEADY) NORMAL SERVICE
- (BLINK) TESTING
- (RED/GREEN FLASH) HI CHARGE
- (STEADY) BATTERY DISCONNECTED
- (FLASH) BATTERY RECHARGE FAILURE
- (DOUBLE BLINK) BATTERY FAILURE
- (FOUR BLINK) LAMP FAILURE
- (FIVE BLINK) REMOTE LAMP FAILURE

(WHEN APPLICABLE)
PRESS TEST SWITCH (WITHIN 2 SEC.)
1 TIME = 30 SEC. 2 TIME = 30 MIN.
3 TIME = 90 MIN.
SYSTEM RESET: PUSH AND HOLD TEST SWITCH FOR 6 SECONDS