

Project		Catalog #		Type	
Prepared by		Notes		Date	



Sure-Lites +

SEL35SF Unit Equipment

2 Lamphead Emergency Lighting Unit
 180 Lumens Emergency Lighting Output
 UV Stable Thermoplastic Housing; UL 94 5VA Flame Rating
 35 feet of egress coverage; ABConnect equipped
 FirstLink - Connected with App

Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Industrial • Manufacturing

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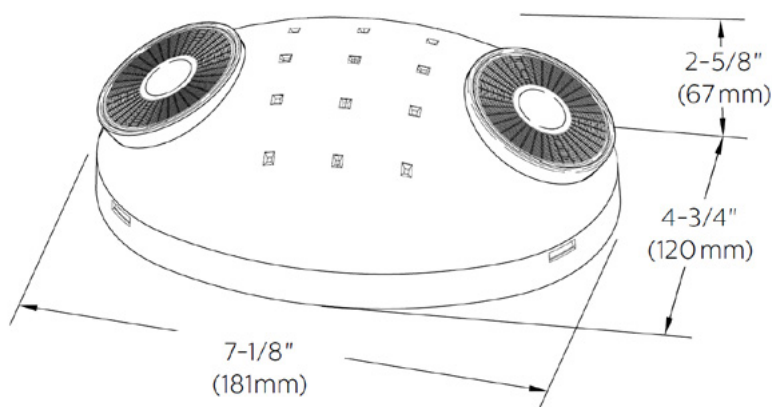
Product Certification



Top Product Features

- FirstLink connectivity for easy emergency lighting system testing and maintenance
- Easy installation with ABConnect
- Automatic code-compliant testing
- UL 924 Listed for field installation
- Meets CEC Title 20 efficiency standards
- Low profile, contemporary design
- Two high output adjustable LED lampheads

Dimensional and Mounting Details



Ordering Information

SAMPLE ORDER NUMBER: **SEL35SF**

Product Category	Egress Coverage	Options
SEL = Sure-Lites Emergency Lighting	35 = 35 Feet	SF = Self-Testing FirstLink

Product Specifications

Regulatory

- Listed to UL 924 for Field Installation in US and Canada (Indoor and Damp)
- NFPA 70 (National Electric Code)
- NFPA 101 (Life Safety Code)
- CEC Title 20 Compliant

Emergency Output Lumens (lamp heads)

- 180 lumens (total)
- Fixture spacing - see page 4

Illumination Time

- 90 Minutes

AC Input Voltage

- Universal input 120 - 277 VAC, 50/60 Hz

AC Input Current (max)

- 120 Vac = 35 mA
- 277 Vac = 25 mA

Recharge Time

- 24 Hours

Charging Indicator Light / Test Switch

- Integrated, Bi-color LED Test Switch

Temperature Rating (Ambient)

- 50° F to 104° F (10° C to 40° C)

Battery

- Integral Maintenance-Free Lithium-Ion Battery

Construction

- White thermoplastic housing
- UL94 5VA Flame Rated, UV stable
- Contractor friendly snap together design
- Electronics and battery contained within housing

Installation

- Wall and Ceiling mounting
- Back plate keyhole slots are easily removable
- knockouts for securing to a 3" or 4" j-box

Lamps

- Two (2) 1.0 W LED lamp sources (5000K)
- Lampheads adjustable

Wireless range*

- 40' (typical minimum)
- 80' (line of sight)

Surge Rating

- NEMA/ANSI C82.77-5-2017 100kHz Ring Wave
- (w/t 30Ω)
- >2.5kV Differential (L-N)
- >2.5kV Common (L-G, N-G, L&N-G)

Dimensions

- 4.75" H x 7.125" W x 2.375" D (120mm x 181mm x 67mm)

Weight

- 1.1 lbs. (0.5 kg)

Warranty

- 5 Years (not pro-rata)

* Wireless range can be impacted by many factors, which must be taken into account during the system design.

Technical Data

Application

- The SEL35SF Unit Equipment is a high performance emergency lighting unit equipment that illuminates the path of emergency egress.
- Two lamp heads can be adjusted to provide optimum illumination and the unit comes with self-testing/self-diagnostic features, along with FirstLink connectivity, to ensure the product is always ready for an emergency and to simplify code compliance testing and maintenance.

Operation

- When under normal power, the SEL35SF's internal battery charges. Upon failure of normal power, the SEL35SF begins providing emergency power to the lamp heads using the internal battery for a minimum of 90 minutes. When normal power is restored, the SEL35SF automatically returns to charge mode. The battery capacity is fully restored in 24 hours.
- During automated testing, the SEL35SF simulates an AC power outage which causes the unit to switch to emergency mode and conduct a discharge test to monitor battery voltage and load operation. If a problem is detected the status indicator light flashes and the failure is logged. When testing is complete, the SEL35SF returns to the charging mode. Automatic testing is conducted for 30 seconds once a month and 90 minutes once a year.
- ABConnect feature simplifies shipping, storage, installation, and commissioning of the emergency lighting luminaire. It allows for the luminaire to be installed and made ready for use without needing to reopen the luminaire when AC power is available, also avoiding unnecessary drain on the battery. Once activated, the product can also be manually disabled, allowing the product or the luminaire to be safely stored for extended periods of time. In the situation where the user manually deactivates the emergency operation for shipping or storing product via the test switch, the ABConnect feature reactivates power when the driver senses that AC current is applied. This feature saves time, labor and the potential to overlook the converter connector step. This reduces the possibility of inadvertently discharging the battery prior to installation, whether in transit or storage.

Installation

- The SEL35SF can be either wall or ceiling mounted, as required by the end application. The SEL35SF can be mounted on surface conduit (entry on top of housing in center of backplate). It can also mount to a standard single gang, 3" and 4" electrical box.
- The SEL35SF requires unswitched AC line to charge the battery and to identify when normal power is lost and when the unit must switch into the emergency mode.

Emergency Illumination

- The SEL35SF lamp heads provide 180 lumens of code compliant emergency illumination at unit-to-unit spacings up to 40'. For more information, see the illustration and table on page 4.

Code Compliance

- The SEL35SF has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment".
- The SEL35SF is UL Listed for field installation. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC), and UL 90-minute requirements.

Specification

- Emergency egress path lighting shall be provided by using the FirstLink SEL35SF Unit Equipment from Sure-Lites. Electronic circuitry shall be self-testing in design and automatically test emergency lighting for a minimum of 30 seconds every 28 days and 90 minutes once a year.
- When connected to the FirstLink app, the SEL35SF test data will be collected, test results reports generated, and additional control and data are to be had.
- The SEL35SF shall provide emergency lighting at 10°C to 40°C for a minimum of 90 minutes, and shall exceed emergency standards set forth by the current NEC. This device shall comply with Part 15 of the FCC Rules, and meet CEC Title 20 (California Energy Commission) efficiency standards. It shall be UL Listed, suitable for damp locations, and warranted for five years from date of manufacture.

Warranty

- The SEL35SF is warranted for five (5) years from the date of manufacture. This warranty covers only properly installed product used under normal conditions.
- For the warranty period, Sure-Lites will, at its option, repair or replace without charge a defective product provided it is returned to the factory transportation prepaid.
- An inspection will be conducted to determine if the unit is defective under the terms of the warranty. Repair or replacement, as stated, shall constitute the purchaser's exclusive warranty, which does not extend to transportation, installation, labor or any other charges; nor does it apply to any equipment of another manufacturer used in conjunction with the product.

Performance

Meets Life Safety Code Illumination standard average of 1.0 FC, no point less than 0.1 FC max to min ratio of 40:1.
Assumes open space with no obstructions. NFPA 101, Life Safety Code matches California Fire Code of Regulations, Title 24.
Normal operation (off/standby) is not to be confused with emergency operation.

Sure-Lites SEL performance				
	80/50/20 Reflectance†		10/10/10 Reflectance†	
	3' Path	6' Path	3' Path	6' Path
Single Unit Coverage	-	-	36'	28'
Center-to-Center	40'	35'	-	-

- Based on 6ft corridor and 9ft ceiling height and a mounting height of 7.5ft.
- Based on 200ft by 200ft open area and 30ft ceiling height.

