

## DESCRIPTION

The Sure-Lites SELIN industrial series is a UL 924 code compliant emergency light designed to reduce total egress system cost and maintenance as well as ensure reliability in an industrial or wet location environment. It is designed to run for a minimum of 90 minutes during a power outage. Key features include a long life LED source with egress coverage up to 60 feet, a nickel cadmium battery and self-diagnostics which automates the NFPA required testing. The fixture is NEMA 4X, IP66, Title 20 compliant and has a chemically resistant fiberglass housing. This series offers remote capability from 4 watts to 10 watts and is compatible with the Sure-Lites SRP/SRM remote series.

Catalog #		Type
Project		
Comments		Date
Prepared by		

## SPECIFICATION FEATURES

### ELECTRICAL

- Dual Voltage Input  
120/277 VAC, 60Hz
- 240 VAC capable with 48 hour recharge time
- Brownout circuit
- Low voltage disconnect
- Overload / Short Circuit protection
- 4.8V Battery back-up
- Self-diagnostic
- Remote capability

### HOUSING CONSTRUCTION

- UL listed NEMA 4X fiberglass
- Watertight and corrosion resistant
- Gasketed; internally hinged front cover
- Grey finish
- All units come standard with a breather vent

### WARRANTY

- Five-year product warranty
- Prorated seven-year battery warranty

### CODE COMPLIANCE

- UL924 wet location listed for 0 °C to 40 °C operation
- Life Safety NFPA 101
- NEMA 4X / IP66
- NSF
- California Energy Code compliant
- NEC/OSHA/NSF
- Most State & Local Codes
- California Energy Code Compliant

### BATTERY

- Sealed Nickel Cadmium
- Full Recharge Time, 24 hours (max.)
- 0 ° to 40 °C (32 ° to 104 °F)



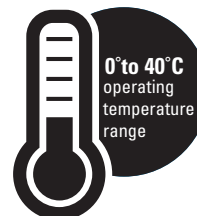
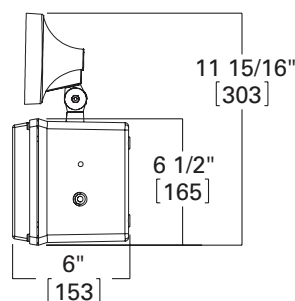
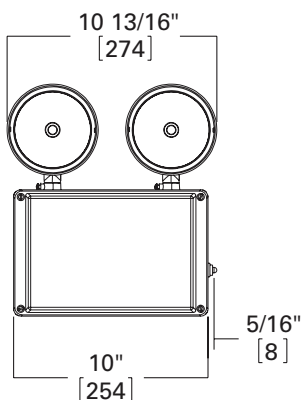
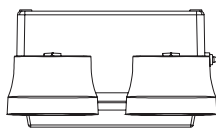
**SELIN25/SELIN50/  
SELIN60**

## SELIN Emergency Light

- LED Emergency Light
- Self Diagnostics
- SELIN
- Remote Capacity
- Wet Location
- NEMA 4X
- IP 66

## DIMENSIONS

### SELIN25/SELIN50/SELIN60



## CATALOG LOGIC

**SAMPLE NUMBER:** SELIN25R10SD, SELIN50R7SD, SELIN60R4SD

Series	Spacing	Battery	Remote Capacity	Self Diagnostic	Full Catalog
SELIN = LED Emergency Light	25 = 25 feet	__ = NiCad	R10 = 10 watts	SD = Self Diagnostic (standard)	SELIN25R10SD
	50 = 50 feet	__ = NiCad	R7 = 7 watts	SD = Self Diagnostic (standard)	SELIN50R7SD
	60 = 60 feet	__ = NiCad	R4 = 4 watts	SD = Self Diagnostic (standard)	SELIN60R4SD

## ELECTRICAL CHARACTERISTICS DURING CHARGING MODE

**SELIN25 / SELIN50 / SELIN60**

Model	Power (W)	Current (A)	PF	Power (W)	Current (A)	PF
Voltage	120V			277V		
SELIN25R10SD	2	0.3	0.07	1.8	0.2	0.03
SELIN50R7SD	2	0.3	0.07	1.8	0.2	0.03
SELIN60R4SD	2	0.3	0.07	1.8	0.2	0.03

## REMOTE SYSTEM DESIGN GUIDELINES

### SELIN25 / SELIN50 / SELIN60

		SEL Series Outdoor Capable Remotes						Value Proposition
Series	SRPA	Single Head Remotes			Double Head Remotes			
Catalog number	SRPA29	SRP/ SRM13	SRP/ SRM25	SRP/ SRM30	SRP25D/ SRM25D	SRP50D/ SRM50D	SRP60D/ SRM60D	
Watts Consumed	3.5	1.25	2.5	4.1	2.5	5	8.2	

Catalog Number	Remote Watts Available	# of SRPA29 remotes fixture will power	# of SRP/ SRM13 remotes fixture will power	# of SRP/ SRM25 remotes fixture will power	# of SRP/ SRM30 remotes fixture will power	# of SRP25D/ SRM25D remotes fixture will power	# of SRP50D/ SRM50D remotes fixture will power	# of SRP60D/ SRM60D remotes fixture will power	Total Potential Egress Coverage
SELIN25R10SD	10	2	8	4	2	4	2	1	125 feet
SELIN50R7SD	7	2	5	2	1	2	1	NA	115 feet
SELIN60R4SD	4	1	3	1	NA	1	NA	NA	99 feet



SRP



SRPD



SRM



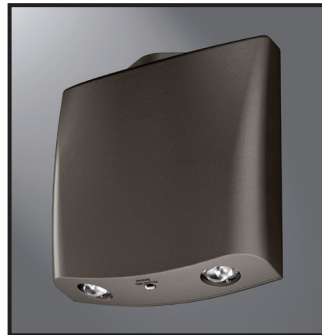
SRMD



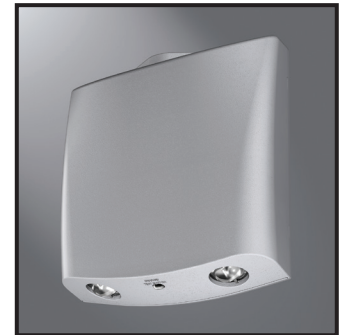
SRPA WHITE



SRPA BLACK



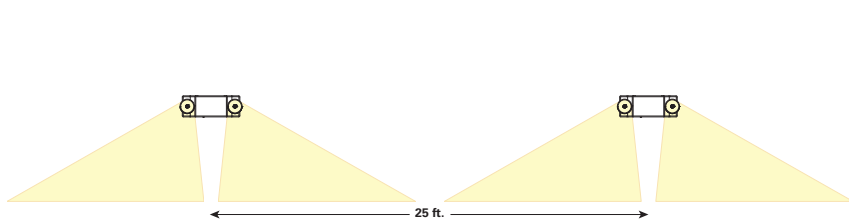
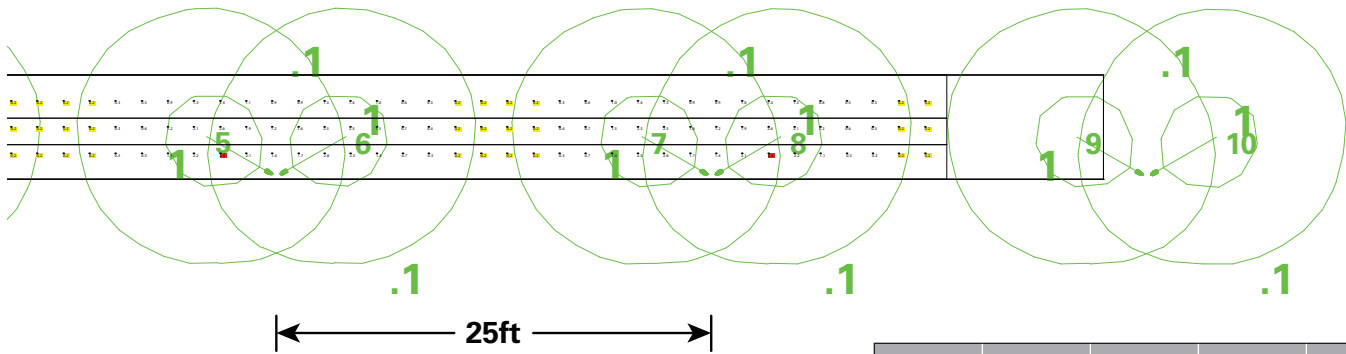
SRPA BRONZE



SRPA SILVER

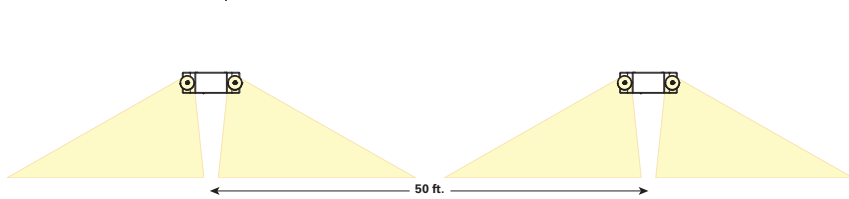
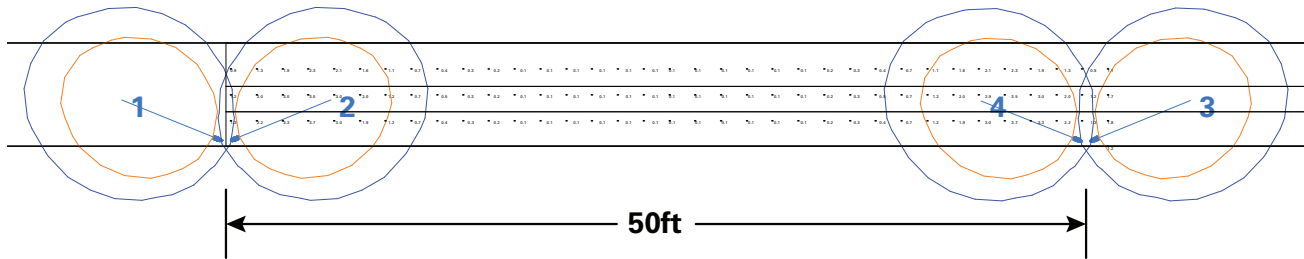
## PHOTOMETRY

### SELIN25R10SD



X	Y	Z	Orient	Tilt
-0.5	0.25	7.5	125	27
0.5	0.25	7.5	55	27
16.5	0.211	7.5	125	27
17.5	0.212	7.5	55	27
33.5	0.172	7.5	125	27
34.5	0.173	7.5	55	27
50.5	0.132	7.5	125	27
51.5	0.135	7.5	55	27
67.5	0.093	7.5	125	27
68.5	0.096	7.5	55	27
84.5	0.054	7.5	125	27
85.5	0.058	7.5	55	27
101.5	0.015	7.5	125	27
102.5	0.019	7.5	55	27

### SELIN50R7SD

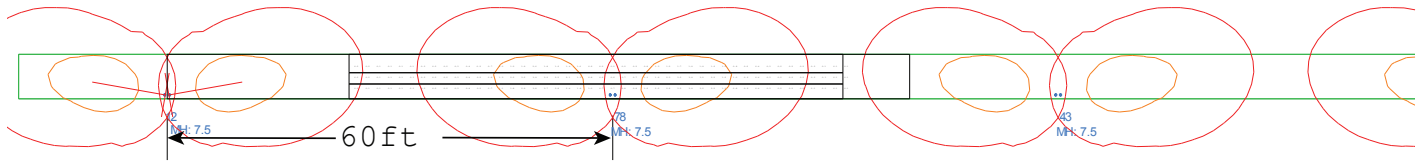


X	Y	Z	Orient	Tilt
24.25	0.33	7.5	158	40
24.75	0.33	7.5	22	40
74.75	0.3	7.5	22	40
74.25	0.292	7.5	158	40

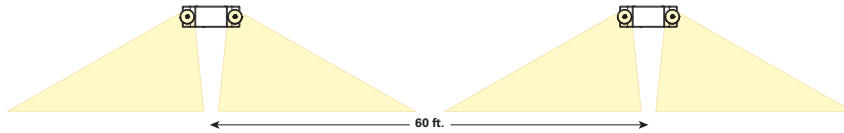
\*\*\*The "Rule of Thumb" spacing guidelines are designed to achieve 1 foot-candle average and 0.1 foot-candle minimum with a 40:1 maximum/minimum ratio. The corridor used is 100 feet long, 9 foot ceiling with a 6 foot wide walkway and 3 foot path of egress. The reflectances are 80% ceiling, 50% walls and 20% floors. The fixture mounting height is 7.5 feet. Eaton 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.

## PHOTOMETRY

### SELIN60R4SD



X	Y	Z	Orient	Tilt
-0.25	0.5	7.5	170	57
0.25	0.5	7.5	10	57
120.25	0.5	7.5	10	57
119.75	0.5	7.5	170	57
59.75	0.5	7.5	170	57
60.25	0.5	7.5	10	57
180.25	0.5	7.5	10	57
179.75	0.5	7.5	170	57



\*\*\*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. Eaton 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

### Self Diagnostics

The self-diagnostic software will automatically perform all tests required by UL924, and NFPA101 and will systematically calibrate itself in the field; thus reducing installation labor and eliminating manual calibration errors. The system indicates the status of the emergency light at all times using the LED indicator. A 90 minute battery power (emergency mode) simulation test will occur once every 12 months. A 30 second battery power simulation test will occur every 30 days.

The Solid-State microprocessor based system has the ability to accurately detect and warn of system failures, plus it incorporates all of the standard electronic features that sets Sure-Lites apart from its competition

### Remote Capability

The SELIN series offers remote capability from 4 watts to 10 watts. This enables the ability to power the Sure-Lites SRP/SRM/SRPA series remotes to create an emergency system capable of covering up to 125 feet. The Sure-Lites SRP/SRM/SRPA remotes are UL listed for wet locations and are rated for temperatures from - 30 °C to 60 °C.

### Low Voltage Disconnect

The low-voltage circuitry disconnects the lighting load to protect the battery after run times in excess of the 90-minute UL limit. The disconnect remains in effect until normal utility power is restored preventing deep battery discharge.

### Brownout Circuit

The brownout circuit on the SELIN emergency light monitors the flow of AC current to the unit and activates the emergency light heads when a predetermined reduction of AC power occurs.

### Laser Test

The Self-Diagnostic option include a laser pointer testing capability. Activation of the photocell test button with a laser pointer will simulate loss of AC power and engage the emergency operation of the exit and emergency heads.

### Warranty

SELIN units are backed by a five-year warranty on the fixtures and a seven-year prorated battery warranty.



Laser tester

Part Number = LASER  
(sold separately)

## SELF DIAGNOSTIC TESTING OPERATIONS

The Sure-Lites self-diagnostics is continuously monitoring your emergency fixture, and will signal any failure through the 3 color indicator LED.

### Initial Operation:

When the unit is first powered up it will go into a 24 hour fast charge and the indicator LED will pulse green. Once the unit has fully charged it will perform a self calibration. After self calibration, 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 a battery capacity, lamp/LED, and charge circuit test every 30 days for 30 seconds. During this time, the indicator LED will change to a steady yellow. It will perform a full battery capacity (90 minute) test once per year. During this time, the indicator LED will change to a blinking yellow.

### Manual Testing:

- 10 Second "Installation" test – Press and release the test button once during fast charge (blinking green) to initiate a 10 second quick test. The sign will switch to emergency mode for 10 seconds allowing the installer to verify proper installation of the unit, and the LED indicator will turn solid yellow.
- 30 Second Test - Press and release the test button once during float charge (steady green). The indicator LED will turn steady yellow to indicate the unit is performing a 30 second test of the batteries and lamps/LEDs.
- 90 Minute Test - Press and release the test button a second time during a 30 second test (steady yellow) to change to a 90 minute test. During this test, the LED indicator will change to blinking yellow, and the circuit will perform a full battery capacity, charge circuit, and LED test.
- Canceling Test – Press and release the test button during the 90 minute test (flashing yellow) to return the fixture to its original state (fast charge or float charge)

### Laser Test:

The SEL SD products are equipped with a Laser Test function that allows the unit to be manually tested without the need to physically press the test button. Shining a laser pointer in the hole marked "LASERTEST" on the bottom of the unit has the same effect as a press and release of the test button.

### Clearing Failure Codes:

- A battery failure (LED two blink red) can be cleared by replacing the battery. Disconnecting the battery and AC power, or performing a full 90 minute discharge will reset the error code, however, it will return if the battery is faulty
- Charge Circuit (LED three blink red) and lamp/LED failure (LED four blink red) will clear when the unit successfully passes a manual or automatic 30 second test.









## SELF DIAGNOSTIC TESTING OPERATIONS

### Indicators:

- LED Off - No power to unit, emergency mode.
- LED Steady Green - Unit is fully charged and is float charging the battery to maintain readiness.
- LED Green Pulse - Unit is in a 24 hour fast charge of the battery.
- LED Two Blink Red - Battery has failed a capacity test, or the battery is disconnected. See "Clearing Failure Codes" above.
- LED Three Blink Red - Battery charge circuit has failed. See "Clearing Failure Codes" above.
- LED Four Blink Red - Lamps have burned out, or on an EXIT/Combo, 50% or more of the LEDs have failed. See "Clearing Failure Codes" above.
- LED Steady Yellow - 30 second test or 10 second quick test (Fast Charge only).
- LED Blinking Yellow - 90 minute test.

### 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.

SURE-LITES		
	OFF - EMERGENCY MODE / POWER OFF	 STEADY BLINK YELLOW - 90 MINUTE TEST
	STEADY BLINK GREEN - FAST CHARGE	 2 BLINK RED - BATTERY FAILURE
	STEADY GREEN - FULL / FLOAT CHARGE	 3 BLINK RED - CHARGE CIRCUIT FAILURE
	STEADY YELLOW - QUICK TEST	 4 BLINK RED - LAMP/ LED FAILURE