



Lux-Ray™ LED Series

Die-Cast aluminum LED Emergency Lighting
Interior or Exterior Capable Nickel-Metal
Hydride battery



Standard Features

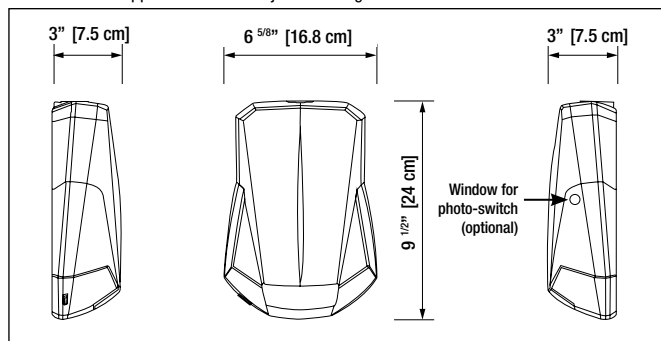
- Die-Cast aluminum housing, available in four finishes: dark bronze, off-white, black, and platinum gray
- Nema-3R rated for indoor/outdoors wet and damp locations: 0-40°C (32-104°F)
- Wall-mount installation on various junction boxes or via rigid conduit
- Patent-pending design for easy installation: wall-mount back-plate includes electrical wire box with snap-on connector
- Clear polycarbonate lens of reduced size (3" x 1.5"), shock-absorbent and UV-resistant
- Battery: environmentally friendly high-temperature rated, Nickel-Metal Hydride technology
- Power consumption in stand-by: less than 5W
- Optional: Self-test and diagnostic functions, operated by micro-controller
- UL listed to the UL924 standard for wet and Damp locations
- 5-year limited warranty

Options

- Cold-weather: -40°F/-40°C
- Forward-throw light distribution, for applications of outdoor exit discharge (OSHA 1910.36)
- High-lumen output: 25 to 50% additional level of illumination
- Dual-mode operation: normal lighting and/or emergency lighting with separate AC inputs
- Photo-switch: dusk-to-dawn control of normal lighting
- Remote test: infrared remote control (keyboard ordered separately)
- Time delay: 5, 10, 15 minutes

Outline and Dimensions

Dimensions are approximate and subject to change.



Suggested Specification

Supply and install the **Lux-Ray™ LED** Series of emergency lighting unit from **EMERGI-LITE®**.

The unit body shall include a back-plate and housing made of Die-Cast Aluminum with paint Finish color: _____ and a UV- and impact-resistant polycarbonate lens of reduced size: 3" X 1.5". The back-plate shall have knockouts for wires and wall-mount installation box as well as a threaded hole for rigid conduit entry at the top of the unit. The back-plate shall have a built-in electrical box with wire terminals and snap-on connector. After complete electrical installation of the back-plate the equipment housing shall be installed by a simple push & snap over the back-plate.

The emergency lights shall be 4 Power-Light-Emitting Diodes (LED) with operational life of minimum 36,000 hours, until 70% of the initial light level (reported L70). The LED lamps shall have redundant interconnections: eventual failure of one lamp shall allow other LED lamps to function. The unit shall have a dual-voltage input rated: 120/277VAC, 60Hz. The battery charger shall include low voltage disconnect to prevent deep discharge, battery lockout to prevent battery drain prior to energizing the utility power, and brownout protection which will automatically switch unit into emergency mode if the utility power falls below 80% of nominal level.

The unit with Nickel-Metal Hydride battery shall be equipped with a micro-controller-based non-audible Advanced Diagnostic circuit. The unit shall self-test for one minute every month, 30 minutes every six months and 90 minutes annually. The pilot light shall be integrated with the test button; it shall be a bi-color LED and shall change color from normal green to flashing red when a failure is detected from the battery, charger circuit or lamps. A label located inside the unit near the test button shall describe the diagnostic for each flashing code.

When specified, models with dual-mode illumination shall include two separate AC input circuits: for emergency lighting and for normal lighting. When specified, models equipped with photo-switch shall automatically activate the lights only from dusk till dawn, for additional energy savings. The typical ambient illumination for the photo-switch shall be: one foot-candle (to turn-on) and three foot-candles (to turn-off). The unit shall be UL listed to the UL924 Standard for wet and damp locations.

The unit shall be EMERGI-LITE® model: _____.

Power Consumption Chart

AC Specs: 120/277VAC					
Model Type	Normal lighting		Emergency lighting		6-12VDC remote
	Current (max)	Power (max)	Current (max)	Power (max)	Power (max)
AC, 2AC, ACDC, DC	0.12/0.08A	12W	0.11/0.08A	12W	8W
AC, 2AC, ACDC, DC, -H	0.18/0.11A	18W	0.18/0.11A	18W	14W
ACSD, SD, SD-H	0.12/0.06A	12W	0.05/0.02A	5W	Nickel-Metal Hydride battery
SD-CW	-	-	0.15/0.07A	16W	
ACSD-CW, -CWRC	n/r*		0.22/0.10A	24W	

*Note: Only unswitched AC input; normal lighting with photo-switch or remote control

Photometry Performance

Whether installed indoors or outdoors, with spacing measurements for a single unit or between two units center-to-center, the **Lux-Ray™ LED Series** delivers a stable and consistent illumination making it easy to specify in a wide range of applications. The outstanding spacing of illumination ranges from 50 to 70 feet for standard units (wide beam) and from 40 to 50 feet with the forward-throw beam option.

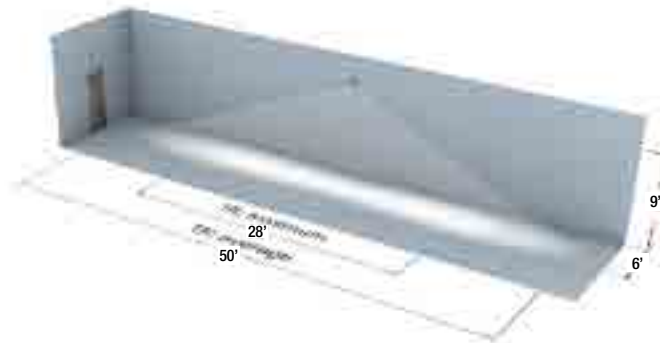
Average of 1 foot-candle

Table A: Spacing for NFPA101 (average = 1fc, see Note)			
Model Type	Mounting Height	Width X Length (Ft)	
		Single Unit	Center-To-Center
Standard	9'	6' X 50'	6' X 50'
With option -H	11'	6' X 60'	6' X 60'
			3' X 70'
With option -FT	12'	6' X 40'	—
With option -FTH	15'	6' X 50'	—

Indoor reflectance: 80/50/20 and 10-ft wide corridor. Outdoor reflectance: 0/30/10

Note: The illumination level meets ALL the requirements of the Life Safety Code (NFPA 101):

- 1) Average of 1 foot-candle or more
- 2) Minimum at any point of 0.1 foot-candle or more
- 3) Maximum-to-minimum illumination uniformity ratio of 40:1 or less



Minimum of 1 foot-candle

Table B: Spacing for minimum illumination= 1fc			
Model type	Mounting Height	Width X length (Ft)	
		Single Unit	Center-to-Center
Standard	9'	4' x 28'	4' x 32'
With option -H	11'	4' x 32'	4' x 40'
With option -FT	12'	4' x 22'	—
With option -FTH	15'	4' x 27'	—

Max./min. uniformity ratio less than 3:1



How to Order

Battery Unit

Color	Series	Model	Options
B = Black BZ = Dark bronze OW = Off-white PG = Platinum gray	LUX = Lux-Ray LED	SD = Self-Powered & diagnostic (0... 50°C) ACSD = Dual-mode AC / Self-Powered (0... 40°C)	-CW = Cold weather (-40...30°C; N/A with option -H) -D1 = Time delay: 5 minutes, -D2 = Time delay: 10 minutes, -D3 = Time delay: 15 minutes -FT = Forward throw lighting -H = High lumen output (max. 30°C; model SD only) -P = Photo-switch, normal lighting (ACSD only) -RC = Remote control - infrared* * Remote control keypad (TB-RC1-E) ordered separately

EXAMPLE: BZLUXACSD-RC

Remote Fixture

Color	Series	Model	Options
B = Black BZ = Dark bronze OW = Off-white PG = Platinum gray	LUX = Lux-Ray LED	AC = AC-only ACDC = AC/6-12VDC remote DC = 6-12VDC remote fixture 2AC = AC-only two circuits: 120/120 or 277/277V	-FT = Forward throw lighting -H = High lumen output (-40...30°C) -P = Photo-switch, normal lighting (AC, ACDC only) -RC = Remote control - infrared* (AC, ACDC only) * Remote control keypad (TB-RC1-E) ordered separately

EXAMPLE: BZLUXDC-FTH

