



Type No. _____

Job Name _____

Catalog No. _____



Guard-Lite Series

Class I & II, Division 2

LED Combination Emergency Exit

Standard Self-Diagnostics Electronics*

Shown: GX636R2XBSC

Housing

- Constructed of impact-resistant, fiberglass-reinforced polyester
- Housing color is gray with stainless steel hardware and clear polycarbonate cover
- Housing includes a one-piece formed gasket and corrosion-resistant hardware
- Standard internal or external mounting feet for installation flexibility
- UL listed for Class I, Division 2, Groups A, B, C & D; Class I, Zone 2, Groups IIA, IIB (+ H₂) & IIC; and Class II, Division 2, Groups F & G
- Guard-Lite Series meets the Buy American requirements

Illumination

- Illumination of the exit stencil face is accomplished with long lasting, high output LEDs, producing an average illumination level in excess of 25 f_l (85.7 cd/m²) at the end of the 90 minute emergency run time
- A variety of optional lamp heads provide design flexibility for egress lighting

Electronics

AC Only

- 120/277 VAC dual voltage input with surge protection Emergency Operation
- Microprocessor driven charger software with routine embedded diagnostic and temperature compensation
- See specification sheet L2465 for electronics details
- 120/277 VAC input, surge protection, brownout, AC lockout and low voltage disconnect are standard

Smart Charger Self-Testing Diagnostics (optional)

- The Smart Charger diagnostic/charging platform with self-testing mode automatically runs a one-minute self-test every 30 days and a 30-minute test on the sixth and twelfth month. A one-minute or 90-minute test may be initiated via the push to test switch on the unit or by activating the appropriate test command on the optional IR test device.

Battery

- Maintenance free, sealed lead calcium battery has an expected service life of 5 years with an operating range of 65°F (19°C) to 85°F (30°C)
- Minimum 90 minutes of emergency power

Electrical Specifications

6 V, 18 W Red or Green

- 120 VAC, 60 Hz, 0.133 A, PF = 0.80
- 277 VAC, 60 Hz, 0.058 A, PF = 0.80

6 V, 36 W Red or Green

- 120 VAC, 60 Hz, 0.122 A, PF = 0.70
- 277 VAC, 60 Hz, 0.053 A, PF = 0.70

6 V, 72 W Red or Green

- 120 VAC, 60 Hz, 0.129 A, PF = 0.80
- 277 VAC, 60 Hz, 0.056 A, PF = 0.80

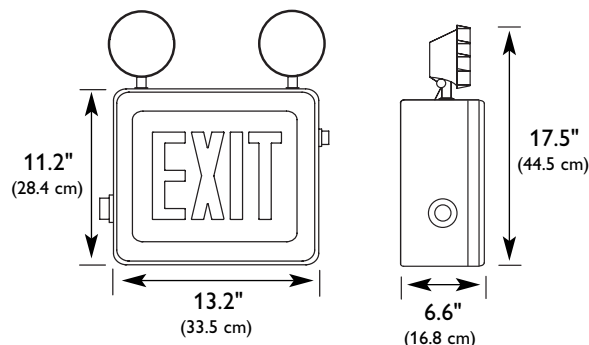
Code Compliance

- UL 924 and 844 listed
- NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards
- Temperature rating (T-Rating) 160° (T3C)
- Class I, Zone 2 T-Rating 200° (T3)

Warranty

- Electronics: 5 years full
- Battery: 1 year full, 4 years prorated

Dimensions



Dimensions are approximate and subject to change.

*Self-powered models incorporate the Smart Charger diagnostics electronics package. Self-testing is a factory installed option.

Ordering Information

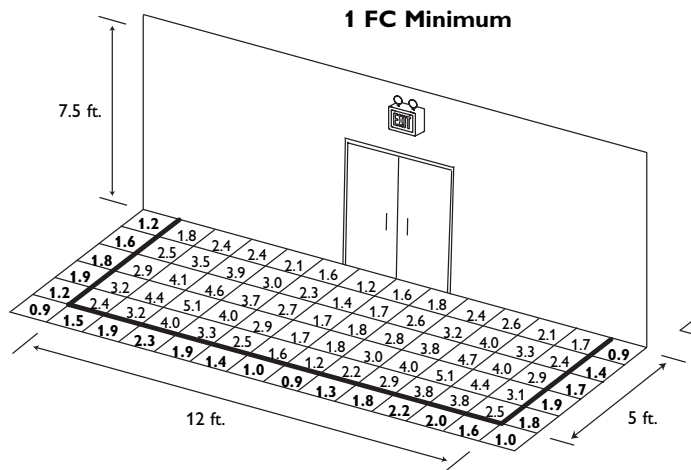
GX	6					SC	
SERIES	SYSTEM VOLTAGE	BATTERY/WATTAGE ³	LETTER COLOR	NO. OF LAMP HEADS	LAMP HEAD TYPE	MODEL DESIGNATOR ¹	FACTORY INSTALLED OPTIONS ²
GX = Hazardous Location LED Exit	6 = 6VDC	18 = 18 W Lead Calcium 36 = 36 W Lead Calcium 72 = 72 W Lead Calcium	R = Red G = Green	Blank = No Heads 1 = One Lamp Head 2 = Two Lamp Heads	XA = 8 W Tungsten XB = 18 W Tungsten XC = 25 W Tungsten XY = 6 W Halogen XI = 8 W Halogen XJ = 12 W Halogen	SC = Smart Charger Diagnostic Electronics	BF = Buzzer/Flasher BZ = Buzzer EX = Special Input Transformer ² (specify voltage & frequency) FL = Flasher S = Shatterproof Lamp Head Lens T = Self-Testing Diagnostics (non-audible) TA = Audible Self-Testing Diagnostics TD = Time Delay
ACCESSORIES (Ordered Separately) SCIR = Smart Charger Infra-Red Remote WG5 = Wire Guard							

NOTES: 1) For self-testing models refer to options. 2) Some option combinations may impact UL listing. Consult factory for specifics. 3) Battery capacity to support local/remote load.

Optics* (IES formatted files are available on-line)

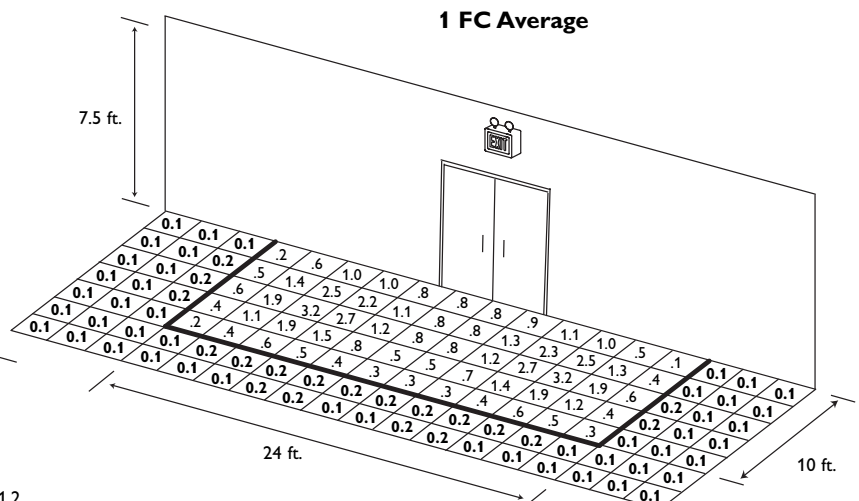
Wall mounted 7.5' AFF, 'XJ' 6 V 12 W Halogen Lamps Represented

*The optics layout shown is intended to be used as reference only. Standard reflectances used were 80/50/20. LightGuard is not responsible for site specific conditions that may alter the results.



Average initial footcandles at floor = 2.89
Maximum initial footcandles at floor = 5.1

Minimum initial footcandles at floor = 1.2
Maximum to minimum ratio = 4.25



Average initial footcandles at floor = 1.05
Maximum initial footcandles at floor = 3.3

Minimum initial footcandles at floor = 0.1
Maximum to minimum ratio = 33.00

Suggested Specification

Furnish and install LightGuard's LED combination emergency exit sign model _____. The combination emergency exit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and UL standard 844, and the National Electrical Code (NEC).

INSTALLATION AND OPERATION - Exit shall be easily field connected to a 120 or 277 VAC, 60 Hz, unswitched power source. Installation must comply with the NEC as well as other applicable codes. Upon utility power failure or brownout, the unit shall automatically transfer to battery power and maintain the required illumination level for a minimum period of 90 minutes. Upon restoration of utility power, the charger shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes.

ELECTRONICS Self-Powered Models - All self-powered models shall be provided with LightGuard's Smart Charger diagnostics electronics platform. The exit sign shall be easily field connected to 120 or 277 VAC, 60 Hz un-switched power source. Smart Charger will detect and notify the installer regarding incorrect wiring of the transformer primary and restrict the damaging effects from affecting the printed circuit board. The Smart Charger electronics package shall provide continuous, real-time monitoring of all the critical equipment functions including, but not limited to: line voltage status and condition, charger fault, transfer fault, battery fault, and LED load fault and notify personnel with a visual indicator sequence. Optional audible diagnostics as well as self-testing diagnostics shall be available from the factory. The self-testing option shall satisfy the periodic testing requirements in NFPA 101, Life Safety Code as well as the International Building Code (IBC). The Smart Charger circuit shall continuously sample ambient temperature conditions and adjust the charging regime to compensate for typical and dramatic ambient conditions to maximize the life of the battery. An on-board IR receiver shall be standard and pre-programmed to operate from an optional IR user interface device (available as an accessory item).

BATTERY - The battery shall be a maintenance free, sealed lead calcium battery and shall provide trouble-free operation in temperatures up to 85°F (30°C). Lead calcium batteries shall be supplied with a one year full warranty.

ILLUMINATION - The Guard-Lite Series LED combination emergency exit signs shall incorporate high intensity LEDs. The LEDs shall be designed so that the unlikely failure of one LED will not affect the integrity of the total sign in the emergency mode. Average legend illumination shall be equal to or greater than 25 ft (85.7 cd/m²) at the end of the 90 minute emergency run time.

ENCLOSURE - The exit housing shall be impact-resistant, fiberglass-reinforced polyester gray enclosure that is UL listed for Class I, Division 2, Groups A, B, C & D; Class I, Zone 2, Groups IIA, IIB (+ H₂) & IIC; and Class II, Division 2, Groups F & G, Class III, Division 1 and 2 hazardous location areas. The housing shall include a one-piece formed gasket and corrosion-resistant hardware.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



272 West Stag Park Service Road • Burgaw, NC 28425
(910) 259-1131 • FAX (800) 403-6927
www.lightguard.com

L2114R1
1/12 IH