

Type No. _____
 Job Name _____
 Catalog No. _____



Luminator Series

- **Hostile Environment Emergency Lighting**
- **6 & 12 Volt, 25 to 150 Watts**
- **Standard Self-Diagnostics Electronics***



Shown: LC25XV2SC

Housing

- Constructed of impact resistant, fiberglass reinforced polyester
- Housing color is gray and includes stainless steel hardware
- The view-through window allows easy monitoring of the optional voltmeter and ammeter
- Available with NEMA rated polycarbonate sealed beam Par 36 tungsten or halogen lamp heads
- Optional shatter-resistant shield for lamp heads is designed for use in food service areas

Electrical Specifications

- **6 Volt**
 25-50W - 0.157A (120VAC), 0.069A (277 VAC)
 75W - 0.222A (120VAC), 0.094A (277 VAC)
- **12 Volt**
 50-100W - 0.289A (120VAC), 0.135A (277 VAC)
 125W - 0.433A (120VAC), 0.188A (277 VAC)
 150W - 0.470A (120VAC), 0.203A (277 VAC)

Code Compliance

- UL 924 listed
- UL damp and wet location listed 32°F (0°C) to 104°F (40°C)
- NFPA 70 and NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards
- NSF Standard 2 "Splash Zone"

Warranty

- Electronics: 3 years full
- Battery: 1 year full, 4 years pro-rata (Lead Calcium)
 5 years full, 5 years pro-rata (Nickel Cadmium)

Application

- The Luminator Series is ideal for locations where oil, water, and dust resistant equipment are required
- The Luminator Series is UL listed for use in damp and wet locations with temperatures ranging from 32°F (0°C) to 104°F (40°C)
- Practical installations where the Luminator Series excels consist of manufacturing facilities, parking decks, warehouses, water treatment facilities and the like
- The Luminator Series meets the Buy American requirements

Batteries

- Maintenance free, sealed lead calcium battery has an estimated service life of 5 years and an operating temperature range of 32°F (0°C) to 104°F (40°C)
- Maintenance free, sealed nickel cadmium battery has an estimated service life of 10 years and an operating temperature range of 32°F (0°C) to 104°F (40°C)
- Batteries supply 90 minutes of emergency power

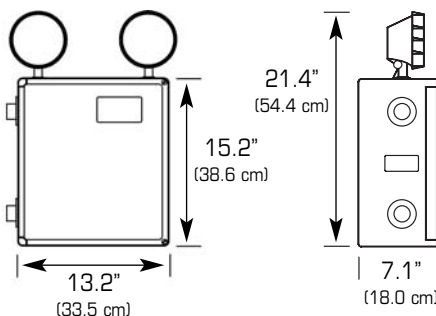
Smart Charger Diagnostic Electronics (standard)

- 120/277 VAC dual voltage input with surge protection is standard on all models
- Charging system is microprocessor driven with software embedded diagnostic routine and precision temperature compensation
- See specification sheet L2465 for technical specifications for the electronics
- Surge protection, brownout, AC lockout, and low voltage disconnect features are standard

Smart Charger Self-Test Diagnostics (optional)

- Standard self-diagnostic electronics perform automatic one minute test of emergency operation every 30 days and a similar 30 minute test every 180 days to verify fixture activation, battery capacity and lamp operation
- User may initiate a one minute or 90 minute test manually using the test switch or available infrared remote (accessory)

Dimensions



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

Luminator Series

Ordering Information

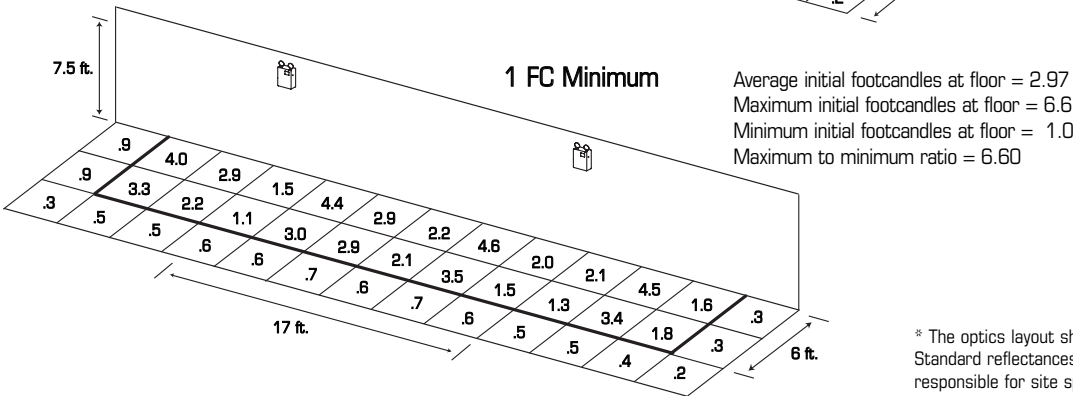
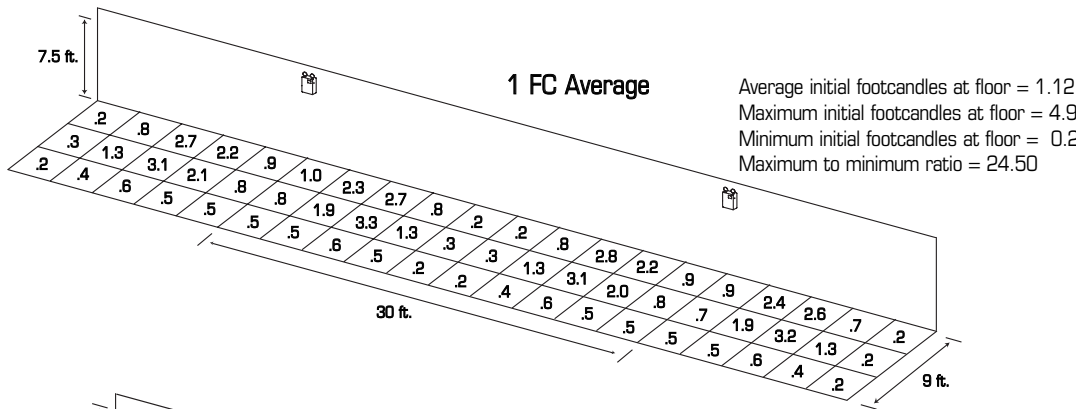
SERIES/BATTERY	LAMP HEADS	# OF HEADS	SC	FACTORY INSTALLED OPTIONS ²
6 Volt, Lead Calcium LC25 = 25 Watt Unit LC50 = 50 Watt Unit LC75 = 75 Watt Unit 6 Volt, Nickel Cadmium LN25 = 25 Watt Unit LN50 = 50 Watt Unit LN75 = 75 Watt Unit	12 Volt, Lead Calcium LTC50 = 50 Watt Unit LTC75 = 75 Watt Unit LTC100 = 100 Watt Unit LTC125 = 125 Watt Unit LTC150 = 150 Watt Unit 12 Volt, Nickel Cadmium LTN50 = 50 Watt Unit LTN75 = 75 Watt Unit LTN100 = 100 Watt Unit LTN125 = 125 Watt Unit LTN150 = 150 Watt Unit	6 Volt, Tungsten XM = 8 Watts XN = 18 Watts XO = 25 Watts 12 Volt, Tungsten XQ = 12 Watts XR = 18 Watts XS = 25 Watts 6 Volt, Halogen XU = 8 Watts XV = 12 Watts 12 Volt, Halogen XW = 8 Watts XX = 12 Watts X5 = 50 Watts X5F = 50 Watts Flood	Blank = No Lamp Heads 1 = One Lamp Head 2 = Two Lamp Heads 3 = Three Lamp Heads SC = Smart Charger Diagnostic Electronics ACCESSORIES (Ordered Separately) SCIR = Smart Charger Infra-Red Remote WG = Wire Guard	A = Ammeter BD = Battery Disconnect Switch EX = Special Input Transformer (specify voltage & frequency) F1 = 120 VAC Fuse F2 = 277 VAC Fuse P1 = 120 VAC Power Switch P2 = 277 VAC Power Switch S = Shatterproof Lexan Lamp Head Lens T = Self-Testing Diagnostics TA = Audible Self-Testing Diagnostics TD = Time Delay (15 minutes) V = Voltmeter

NOTES:

- 1) For self-testing models refer to options.
- 2) Some option combinations may impact UL listing. Consult factory for specifications.

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

Wall Mounted 7.5' AFF, 12V 12W Halogen Lamp Heads 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.

Suggested Specification

Furnish and install LightGuard's Luminator Series emergency lighting unit model _____. The unit shall be listed to Underwriter's Laboratories, Inc. standard 924 and meet all applicable standards in the National Electrical Code (NEC), International Building Code (IBC) as well as all state and municipal requirements. The unit shall be UL wet location listed standard for use in areas with temperatures ranging from 32° F (0° C) to 104° F (40° C). Additional listings shall include NSF standard 2 "Splash Zone".

INSTALLATION AND OPERATION - The unit 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 to battery power and maintain the required illumination level for a minimum period of not less than 90-minutes at the coldest rated temperature of the unit without the need to de-rate the capacity of the equipment. Upon restoration of utility power, the charging system shall restore the battery to full charge within UL 924 requirements following a complete discharge cycle of the unit.

ELECTRONICS - The equipment shall be provided with LightGuard's Smart Charger electronics system. Smart Charger will detect and notify the installer of incorrect wiring of the transformer primary and restrict any damaging effects from reaching the printed circuit board. The Smart Charger electronics 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 load loss detection to 10% of all connected loads. A visual indicator provides fault notification with the option to add an audible alarm as well. The optional self-testing software shall satisfy the periodic testing requirements in NFPA 101, Life Safety Code as well as the International Fire Code (IFC). The Smart Charger with self-testing option automatically runs a one-minute test every 30 days and a thirty minute test on the sixth and twelfth month. The Smart Charger system shall employ temperature compensation which continuously samples the ambient temperature and adjusts the charging system for typical and dramatic temperature fluctuations at a rate equal to 3mV/C° to maximize the life and readiness of the batteries. An on-board IR receiver shall be standard and pre-programmed to operate from an optional hand-held IR test device (available as an accessory item).

BATTERY - The battery shall be either maintenance-free sealed lead calcium or nickel cadmium type. The nickel cadmium battery shall utilize sintered plate construction and polypropylene separators for trouble-free operation in ambient temperatures up to 104° F (40° C) and be tested and approved under IEC standard 61951-1. The lead calcium battery shall provide trouble-free operation in temperatures up to 104° F (40° C).

HOUSING - The housing shall be constructed of impact-resistant, fiberglass reinforced polyester. Internal or external mounting feet shall be provided standard. The unit shall be UL wet location listed.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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