

Туре No	
ob Name _	
Catalog No.	



Unity Series

Architectural White LED Lighting Fixture
 Optional Emergency Packages
 7.2 Volt, 12 Watt, White LED Lamps
 NiMH Battery

Standard Self-Diagnostics Electronics* Wet Location Listing Standard

Housing

- Durable and fully gasketed die cast aluminum housing and cover with UV stabilized polycarbonate lens
- A full range of pleasing architecturally inspired powder coated finishes are available
- Wall mount to standard 3½" or 4" octagonal junction box or single gang junction box
- · Surface conduit entry knockout located on top of housing
- Tamperproof hardware is included standard
- The Unity Series meets the Buy American requirements

Illumination

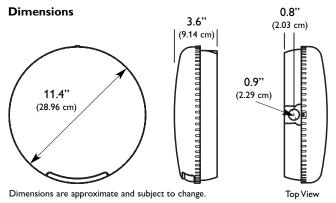
- Illumination is provided by two field-replaceable white LED modules and a vacuum plated polycarbonate reflector
- The reflector design has been optimized to produce a 1 footcandle average illumination along a 6' x 30' path of egress when placed at a mounting height of 8' AFF

Operating Temperature Range AC Only Models

- Standard Wet Location: -40°F (-40°C) to 104°F (40°C)
- Standard Wet Location w/ 2CKT Option: -40°F (-40°C) to 104°F (40°C)

Self-Powered Models

- Standard Wet Location: 32°F (0°C) to 104°F (40°C)
- Standard Wet Location w/ Heater Option: -40°F (-40°C) to 104°F (40°C)



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

Battery

• Maintenance-free sealed nickel metal hydride with 10-year life

Smart Charger Electronics

AC Only

 120/277 VAC dual voltage input with surge protection is standard on all models

Self-Powered Operation

- Charging system is microprocessor driven with software embedded diagnostic routine and temperature compensation
- See specification sheet L2368 for electronics details
- 120/277 VAC input, surge protection, brownout, AC lockout and low voltage disconnect features are standard

Electrical Specifications - Input Power Requirements AC Only Models

120 VAC: 60 Hz, 0.203 A; 277 VAC: 60 Hz, 0.087 A

AC Only, 2 Circuit Models

120 VAC: 60 Hz, 0.203 A; 277 VAC: 60 Hz, 0.087 A

Self-Powered Models Without Heater

120 VAC: 60 Hz, 0.198 A; 277 VAC: 60 Hz, 0.088 A

Self-Powered Models With Heater

• 120 VAC: 60 Hz, 0.366 A; 277 VAC: 60 Hz, 0.148 A

Smart Charger Self-Testing Diagnostics (Optional)

 The Smart Charger diagnostic/charging platform with optional 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.

Code Compliance

- UL 1598 listed, UL 924 listed, UL wet location listing standard
- NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards
- ADA compliant

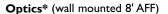
Warranty

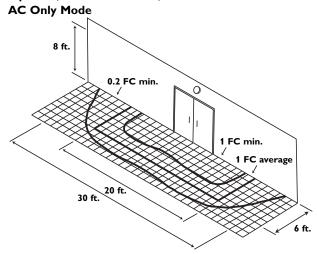
• Electronics: 3 years full, Battery: 5 years full, 5 years pro-rated



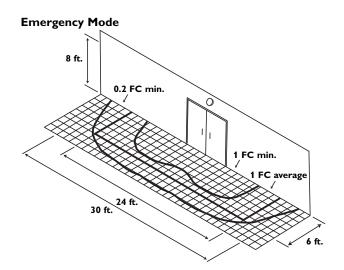
Ordering Information

U				sc	
SERIES	BATTERY	HOUSING FINISH	LED DESIGNATOR	MODEL DESIGNATOR	FACTORY INSTALLED OPTIONS ¹
U = Unity LED Lighting Fixture	A = AC Only N = Self-Powered Emergency Unit with Nickel Metal Hydride Battery (NiMH)	G = Gunmetal BR = Ornamental Bronze	65K = 6,500 Kelvin		2CKT1 = Two-Circuit 120/120 VAC (AC only models) 2CKT2 = Two-Circuit 277/277 VAC (AC only models) DC = Universal 12-48 VDC Remote Emergency Input (AC only models) EX = Special Input Transformer (specify voltage & frequency) ¹
ACCESSORIES (Ordered Separately) SCIR = Smart Charger Infra-Red Remote T10TPTOOL = Tamperproof Screwdriver		VG = Velvet Green N = Nickel	NOTE: 1) Some options impact UL listing. Consult factory for specifics.	T = Self-Testing Diagnostics	





Normal or Emergency Operation (AC Only and AC 2 Circuit)
Dual fixtures on 27' centers, 8' AFF, provide an average of
1 footcandle on a 5' wide path.
Single fixture provides an average of 1 footcandle over
20 feet on a 6' wide path.



Emergency Operation (Self-Powered)

Dual fixtures on 30' centers, 8' AFF, provide an average of
 1 footcandle on a 6' wide path.

Single fixture provides an average of 1 footcandle over
 24 feet on a 6' wide path.

Suggested Specification

Furnish and install LightGuard's Unity lighting fixture model ______. The unit shall be constructed to meet Underwriters Laboratories, Inc. Standard 1598 & 924 and must be installed to conform to Article 700 of the National Electrical Code (NEC).

INSTALLATION AND OPERATION, AC Only Models – Unit shall be easily field connected to a 120 or 277 VAC, 60 Hz, switched, dimmed, photo-celled, or occupancy sensor power source for normal illumination use. This configuration shall provide area illumination under normal power conditions as would any standard luminaire.

AC Only, 2 Circuit Models - The unit shall be easily field connected to a 120 or 277 VAC, 60 Hz, switched, dimmed, photo-celled, or occupancy sensor power source on the primary input of the fixture for normal illumination use. The isolated secondary input of the unit shall be easily field connected to an emergency AC power source, such as a generator or inverter equal to the AC connection on the primary input (120/120 or 277/277). This method of installation shall provide emergency illumination in the event the generator or inverter system is brought on line.

AC/DC Models - The unit shall be easily field connected to a 120 or 277 VAC, 60 Hz, switched, dimmed, photo-celled, or occupancy sensor power source for normal illumination use. The unit shall have provisions for an isolated low-voltage emergency electrical connection that will accept any DC input ranging from 12 to 48 V DC from an emergency battery unit (EBU) remotely located from the fixture and supplied separately. This method of installation shall provide emergency illumination in the event the EBU senses a brownout or power loss and transfers the DC battery backup voltage to the Unity luminaire.

Self-Powered, Nickel Metal Hydride Models - The unit shall be easily field connected to a 120 or 277 VAC, 60 Hz, switched, dimmed, photo-celled, or occupancy sensor power source on the primary input of the fixture for normal illumination use. The isolated secondary input (emergency input) of the unit shall be easily field connected to an unswitched 120 or 277 VAC, 60 Hz input and establish the method of monitoring the quality of the AC utility voltage for brownout or power outage conditions. This method of installation provides a single fixture for normal illumination as well as emergency illumination in a single fixture without the aid of other equipment or components.

ELECTRONICS – All self-powered models shall be provided with LightGuard's Smart Charger diagnostics electronics platform. Smart Charger will detect and notify the installer regarding incorrect wiring of the input transformer primary and will restrict the damaging effects from reaching the printed circuit card. 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, 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 as defined in NFPA 101, Life Safety Code, NFPA 70, the National Electrical Code, as well as the International Building Code (IBC). The Smart Charger circuit shall continuously sample the ambient temperature conditions and adjust the charging regime to compensate for typical and dramatic ambient conditions to maximize the life of the battery and maintain a readiness condition for emergency use. The temperature compensation shall employ an algorithm equivalent to 3mv/C° change in temperature. 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 (Self-Powered Models Only) – The battery shall be a sealed, maintenance-free, nickel metal hydride (NiMH) technology. The NiMH battery shall provide trouble-free operation in temperatures ranging from 32°F (0°C) to 104°F (40°C) in standard products or -40°F (-40°C) to 104°F (40°C) in products ordered with the optional heater assembly. The battery shall be tested in accordance with the accelerated life testing requirements of the IEC. The battery shall be supplied with a five-year full warranty.

ILLUMINATION – Illumination shall be provided by two six-watt white LED modules designed and enhanced by a custom vacuum metalized polycarbonate reflector system. Adjacent fixtures mounted 30' on centers shall provide an average of 1 footcandle average when mounted at an 8' above finished floor (AFF).

HOUSING – Housing construction shall be of premium die cast aluminum with a UV stabilized polycarbonate diffusing lens. The unit shall be available in multiple colors and finishes. The unit shall be wall mounted to a standard 3½", 4" and single gang junction box. A wall mount gasket kit shall be provided for use when used in wet locations. The knockout unit shall be provided on the top of the fixture to accommodate surface conduit.





^{*}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.