

Type No. _____
 Job Name _____
 Catalog No. _____



A DIVISION OF GEORGE THOMAS GROUP, LLC



Shown: **U1236LT9W**



Housing

- Contractor-friendly, snap-together backplate and housing
- Provisions are available for utility supply via 1/2" surface conduit
- UL 94 V-0, 5 VA high impact thermoplastic
- Available in black or white
- Matching knockouts on thermoplastic backplate enables easy installation to standard junction boxes
- Modular plug-in wiring harness allows line voltage connections in either the junction box or product housing

Battery

- Batteries are installed and connected to the charger system at the factory
- Maintenance free, sealed lead calcium battery has an expected life up to 5 years with an operating range of 65°F (19°C) to 85°F (30°C)*
- Maintenance free, sealed nickel cadmium battery has an expected life up to 10 years with an operating range of 20°F (-7°C) to 95°F (35°C)*

* Increases or decreases in temperature will affect battery performance and/or capacity. Optimum battery performance realized at 77°F (25°C).

Illumination

- Illumination is provided by two high performance lamp reflector systems integral to the housing, and enclosed by a high impact polycarbonate diffuser
- Each lamp reflector system can be adjusted 180° vertically and 90° horizontally
- The standard lamp reflector system uses a high intensity 9.0 watt T-5 wedge base tungsten lamp

Operation

DC Voltage	Unit	Watts to 87½ of Rated Voltage*			
		1½ hrs.	2 hrs.	4 hrs.	8 hrs.
6	U1236LT9	36.0	27.0	14.0	7.2
6	U1250LT9	50.0	37.5	19.0	10.0
6	U1272LT9	72.0	56.5	28.5	15.0
6	U1250NT9	50.0	37.5	19.0	10.0

* Per NEC Specifications

Unison Series

- Contemporary Emergency Lighting
- 12 Volt, 36 to 72 Watt Units
- Sealed Lead Calcium or Nickel Cadmium Battery

Electronics

- 120/277 VAC dual voltage input with surge protection
- Lead calcium units utilize a solid-state, fully automatic, voltage regulated charger
- Nickel cadmium units utilize a solid-state, constant voltage charger
- Brownout protection activates lights when AC voltage drops 20% below nominal
- Labor saving AC lockout feature
- Low voltage disconnect switch (LVD) prevents deep battery discharge
- 12 VDC remote fixture wiring harness with modular connectors

Power Consumption

36 to 50W	120 VAC: .10 amps, 12 watts
	277 VAC: .04 amps, 11 watts
72W	120 VAC: .39 amps, 46.8 watts
	277 VAC: .17 amps, 47.9 watts

Self-Diagnostics (optional)

- OmniTest Self-Diagnostics includes automatic and manual tests to ensure unit is operating properly, and assists user in meeting code requirements
- Verifies battery voltage and lamp continuity every 10 seconds
- Illuminates lamps and discharges battery for 3 minutes every 30 days. A manual test is available from 1 to 90 minutes.

Code Compliance

- UL 924 listed
- UL damp location listing (consult factory for availability)
- NFPA 101, NEC
- Meets ADA specifications for wall mounted lighting fixtures

Application

- Ideal for commercial, retail, or office locations where an attractive, highly reliable and easily installed emergency lighting product is needed.

Warranty

Electronics: 3 years

Battery: 1 year full, 4 years pro-rata (lead calcium) L2166R2
 5 years full, 5 years pro-rata (nickel cadmium) 3/01 IH

Unison Series 12 Volt Emergency Lighting

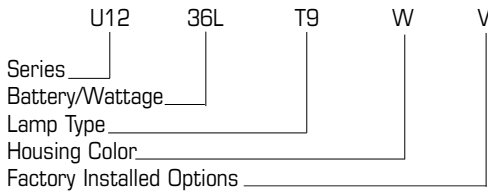
Ordering Information

SERIES/ VOLTAGE	BATTERY/ WATTAGE	LAMP TYPE ¹	HOUSING COLOR	FACTORY INSTALLED OPTIONS ²
U12 = 12 Volt, Unison Series Thermoplastic Emergency Lighting Unit	Lead Calcium 36L = 36 Watt Unit 50L = 50 Watt Unit 72L = 72 Watt Unit Nickel Cadmium 50N = 50 Watt Unit	T9 = Tungsten 9W T12 = Tungsten 12W T18 = Tungsten 18W H12 = Halogen 12W H20 = Halogen (MR16) 20W	W = White B = Black	A = Ammeter ^{3, 4} ACF1 = 120 VAC Fuse ACF2 = 277 VAC Fuse ACP1 = 120 VAC Power Switch ACP2 = 277 VAC Power Switch DCP = DC Power Switch DL = UL Damp Location Listing (consult factory) ⁴ EX = Special Input Transformer (220/240 VAC, 50 Hz) LC = Line Cord (6', 120 VAC field installed) OT = OmniTest Self-Diagnostics OTTD = OmniTest with Time Delay ⁵ V = Voltmeter ^{3, 4}

NOTES:

- 1) Selected lamp wattage cannot exceed unit output rating.
- 2) Some option combinations may impact UL listing. Consult factory for specifics.
- 3) Must select either voltmeter or ammeter, but not both.
- 4) Not available with OT or OTTD options
- 5) 15 minute delay

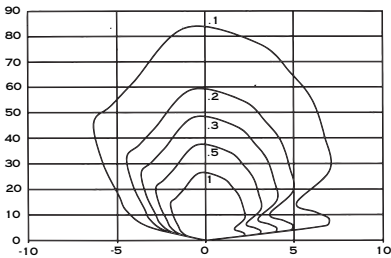
Ordering Example



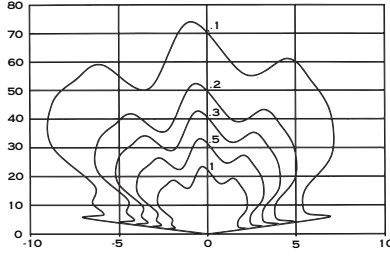
Lamp Head Photometrics

T9 Lamp

HORIZONTAL

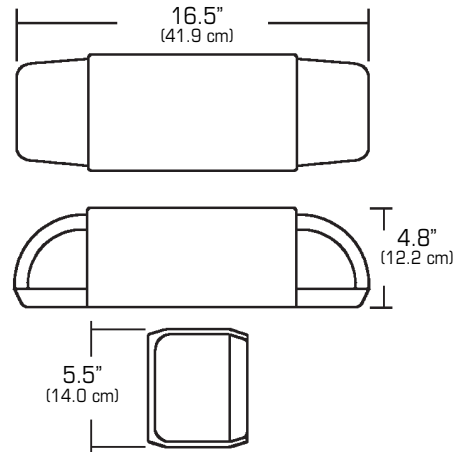


VERTICAL



Refer to Lightguard Technical Section for photometric performance of lamp types not illustrated.

Dimensions



Suggested Specification

Furnish and install Lightguard decorative emergency lighting model _____. The unit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and must be installed to conform to Article 700 of the National Electrical Code (NEC).

INSTALLATION AND OPERATION - Unit shall be easily field connected to a 120 or 277 VAC, 60 hertz, 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 provide emergency battery power and maintain the stated illumination level and output wattage for a minimum period of 90 minutes. Upon restoration of utility power, the charging circuitry shall restore the battery to full charge within UL 924 requirements following a rated discharge of not more than 90 minutes.

CHARGING CIRCUITRY - Unit shall utilize either a fully automatic, voltage regulated (lead calcium) or constant current (nickel cadmium) charging system. The charging system shall maintain the battery at full capacity without the need for periodic exercising or equalization. The following features shall be standard: Low voltage disconnect (LVD), brownout protection and AC lockout. Optional self-diagnostics shall monitor and indicate a fault occurring in either the charger, battery, lamp circuit, or input supply.

BATTERY - The battery shall be either a maintenance free, sealed lead calcium or sealed nickel cadmium. The sealed lead calcium battery shall provide trouble-free operation in temperatures up to 85°F (30°C) and is supplied with a one year full warranty. Nickel cadmium battery shall provide trouble-free operation in temperatures up to 95°F (35°C) and is supplied with a five year full warranty.

ILLUMINATION - Illumination is provided by two internally mounted, fully adjustable reflector systems utilizing either a high output tungsten, or tungsten halogen lamp source. Reflectors shall be constructed of a high efficiency parabolic lamp chamber which can utilize lamp wattages up to 20 watts. When mounted on 20' centers, at 9.0' AFF the product shall provide an average of one footcandle along a linear path of egress.

HOUSING - Housing construction shall be impact resistant UL 94 V-0, 5 VA rated thermoplastic. Product shall be furnished with the standard white, or black finish. Units shall be designed to mount to 3/8", 4" octagon, or 4" square junction boxes and will be supplied with a knockout pattern to facilitate mounting. Modular utility supply connectors integral to the backplate and housing shall eliminate hardwire line voltage terminations inside of the product housing. The housing and backplate shall snap together without the use of tools, and shall contain a factory installed battery which does not require internal connection prior to energizing the product.



ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

L2166R2
3/01 IH