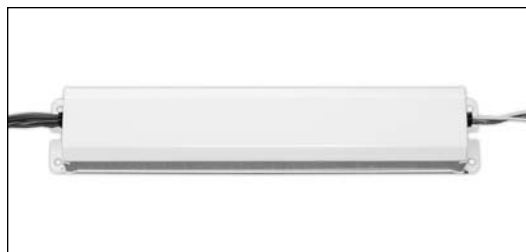


Type No. _____
 Job Name _____
 Catalog No. _____



Shown: L1400T



L1400T L1400TDL

Fluorescent Emergency Ballast For One or Two Lamp Emergency Operation 1400 Lumen Maximum Output

The L1400T Fluorescent Emergency Ballast converts switched and unswitched fluorescent lighting into code required emergency lighting. The L1400T may be installed in or near the fixture to provide unobtrusive life safety protection.

Housing

- Constructed of 20 gauge steel with a high temperature powder coat finish
- Slim housing allows for wireway channel mounting on most recessed luminaires

Electronics

- 120/277 VAC dual voltage input with surge protection, solid state charging circuitry provides for a reliable charging system
- Charging system complete with AC indicator lamp and test switch
- Fully compatible with AC ballast equipped with end of lamp life circuitry
- A time delay circuit has been incorporated to provide compatibility with AC ballasts capable of detecting end of lamp life. The time delay circuit causes a 3 to 5 second delay when switching back to AC operation preventing the AC ballast from shutting down under false conditions.

Warranty

- Electronics: 5 years
- Battery: 5 years

Lamp Operation¹

Operates the following lamp types:²

- T8 Linear Fluorescent
- T12 Linear Fluorescent
- T5/T5HO Linear Fluorescent
- T9 Circline
- T12 U-Bent
- T5 Long Compact Fluorescent
- Compact 4 Pin Fluorescent

NOTES:

- 1) Consult factory for compatibility, operation and performance of product with lamp types not listed.
- 2) See Table 1 for specific lamp performance and operation

Application

- Commercial locations where emergency lighting protection is required using existing fluorescent lighting
- The L1400T meets the Buy American requirements

Battery

- Maintenance free, sealed nickel cadmium battery
- Supplies 90 minutes of emergency power
- Battery has an estimated service life of 10 years, with an operating temperature range of 32°F (0°C) to 131°F (55°C)

Code Compliance

- UL 924 listed
- UL Listed for Damp Locations
- NFPA 70 and NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards
- Suitable for use in sealed and gasketed fixtures

Electrical Specifications

Input power requirements:

- 4 W max.

Operating Temperature Range

- Standard Models: 32°F (0°C) to 131°F (55°C)
- Cold Weather Option: 5°F (-15°C) to 131°F (55°C)

Lamp Operation & Performance

Table 1

LAMP TYPE	WATTAGE	BASE TYPE	NON-EMERGENCY MAX. LUMEN OUTPUT	EMERGENCY OP. MAX. LUMEN OUTPUT	EMERGENCY LAMP OPERATION
T12	20-40	Med. Bi-Pin	1275-2650	1100-1400	One or Two
T12	40-75	Single Pin	2875-5500	1100-1400	One
T12HO	40-215	Recessed	2000-12000	1100-1400	One
T8	17-32	Med. Bi-Pin	1325-2850	1100-1400	One or Two
T8	40	Med. Bi-Pin	3600	1100-1400	One
T5/T5HO	28, 54	Min. Bi-Pin	2900-5000	800-1100	One
Circline	20-40	G10Q/4 Pin	800-2700	750-1100	One
Long Compact	18-39	2G11/4 Pin	1250-2850	950-1100	One or Two
Long Compact	40-55	2G11/4 Pin	3000-4000	1000-1100	One
Compact	13-32	G24Q/4 Pin	900-2400	500-900	One or Two
Compact	42, 57	GX24Q/4 Pin	2750, 3700	1100-1400	One

NOTES:

- 1) Maximum non-emergency lumen output can vary based on lamp manufacturer, ambient operating temperature, and ballast manufacturer.
- 2) Maximum emergency lumen output is based on total output of one or two lamps, and can vary based on lamp manufacturer and ambient operating temperature.
- 3) Maximum emergency lumen output is supported for a full 90 minutes of operation.
- 4) Consult factory for compatibility, operation and performance of lamp types not listed.

Ordering Information

L1400T	
MODEL	OPTIONS
L1400T = 1400 Max. Lumen Output Fluorescent Emergency Ballast for One or Two Lamp Operation	DL = Damp Location Listing CW = Cold Weather Rating 5°F (-15°C) to 131°F (55°C) including Damp Location Listing

ACCESSORIES (Ordered Separately)
CCAPS = Wire Cover Kit for External Mounting
RTS = Remote Test Plate
RTS2 = Remote Test Switch & Pilot Light Kit (includes plate)

Dimensions



Dimensions are approximate and subject to change.

Illumination

The L1400T provides 90 minutes of emergency illumination, and produces up to 1400 lumens initial emergency light output. If two lamp operation is selected, light output is evenly divided between the lamps for better emergency illumination. The L1400T can be used with most 17w to 215w (2' - 8') T8, T10, T12, 28W and 54W T5/T5HO fluorescent lamps without integral starters including U-shaped, HO, VHO, circline, energy saving, and 4 pin twin, quad, and triple twin-tube compacts. The L1400T is also compatible with most 1, 2, 3, and 4-lamp electronic, standard, energy saving and dimming AC ballasts, including those with end of lamp life detection. See lamp operation for specific lamp types.

Electronics

Dual voltage 120/277 VAC input is standard.

An indicator light and test switch are available to signify that AC utility is present, and periodically transfer to emergency operation.

Battery charging circuitry is entirely solid-state, and of a constant current design. Battery recharge time after a complete discharge is less than the required UL 924 standard.

Solid-state circuitry causes an instantaneous transfer to battery power if either the loss of AC utility, or a brownout condition is detected. When line voltage is present and stabilized, the transfer circuitry switches back to normal operation and begins recharging the battery. The transfer circuitry can be tested via a momentary test switch installed on the luminaire, or in a remote location.

A time delay circuit has been incorporated to provide compatibility with AC ballasts capable of detecting end of lamp life. The time delay circuit causes a 3 to 5 second delay when switching back to AC operation preventing the AC ballast from shutting down under false conditions.

Suggested Specification

Furnish and install LightGuard's fluorescent emergency ballast model L1400. The unit shall be constructed to meet Underwriter's Laboratories, Inc. Standard #924 and the National Electrical Code (NEC), and be approved for installation inside, on top of, or remote from the chosen luminaire.

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 transfer to battery power and maintain the required illumination 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.

CHARGER - Unit shall utilize a solid-state, constant current charging system which will maintain the battery at full capacity without the need for periodic exercising or equalization. A time delay circuit has been incorporated to provide compatibility with AC ballasts capable of detecting end of lamp life. The time delay circuit causes a 3 to 5 second delay when switching back to AC operation preventing the AC ballast from shutting down under false conditions.

BATTERY - The battery shall be a maintenance free, nickel cadmium battery. The nickel cadmium battery shall utilize sintered plate construction and polypropylene separators for trouble-free operation in ambient temperatures up to 131°F (55°C). Nickel cadmium batteries shall be supplied with a five year full warranty.

ENCLOSURE - The housing shall be constructed of 20 gauge steel with a high temperature powder coat finish. The slim housing shall allow for wireway channel mounting on most recessed luminaires.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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