

Type No. _____
 Job Name _____
 Catalog No. _____



Shown: L3000T



L3000T

Fluorescent Emergency Ballast

For One or Two Lamp Operation

3500 Lumen Maximum Output

The L3000T Fluorescent Emergency Ballast converts switched and unswitched fluorescent lighting into code required emergency lighting. The L3000T 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 housing frame mounting on most recessed luminaires

Electronics

- 120/277 VAC dual voltage input with surge protected, 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

Electrical Specifications

Input power requirements: 8 watts max

Warranty

Electronics : 5 years

Battery: 5 years

Lamp Operation¹

Operates the following lamp types:²

- T8 Linear Fluorescent
- T12 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

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)

Application

- Commercial locations where emergency lighting protection is required using existing fluorescent lighting

Code Compliance

- UL 924 listed
- Optional Damp Location listing for use in 0°C to 55°C
- NFPA70 and NFPA 101, NEC, BOCA, OSHA, and IBC illumination standards

Lamp Operation and Performance Table 1

LAMP TYPE	WATTAGE	BASE TYPE	NON-EMERGENCY MAX. LUMEN OUTPUT	EMERGENCY OP. MAX. LUMEN OUTPUT	EMERGENCY LAMP OPERATION
F40T12	40	G13/Med Bi-Pin	2650	2650	One or Two
F96T12	75	FAB/Single-Pin	5500	2800	One
F48T12HO	60	R17D/Recessed	4050	3000	One
F96T12HO	95	R17D/Recessed	8000	2900	One
F96T12VHO	215	R17D/Recessed	13500	2900	One
F25T8	25	G13/Med Bi-Pin	2080	2250	One or Two
F32T8	32	G13/Med Bi-Pin	2850	3000	One or Two
F40T8	40	G13/Med Bi-Pin	3600	3000	One
F96T8	59	FAB/Single-Pin	5800	3000	One
F39/36BX	39	2G1 1/4--Pin	2850	2850	One or Two
F40/30BX	40	2G1 1/4--Pin	3150	1800	One
F42TBXT4	42	G24Q-3/4-Pin	3200	3200	One or Two

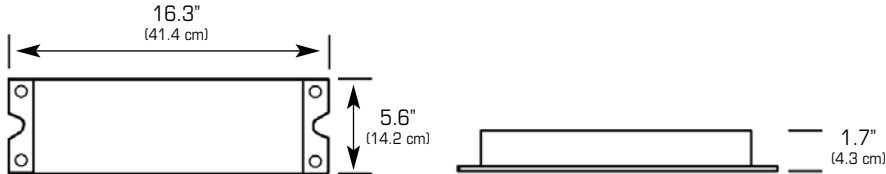
NOTES:

- 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

L3000T		
MODEL	OPTIONS	ACCESSORIES (Ordered Separately)
L3000T = 3500 Max. Lumen Output Fluorescent Emergency Ballast for One or Two Lamp Operation	EX = Special Input Transformer (specify voltage & frequency) DL = Damp Location Listing	RTS = Remote Test Plate RTS2 = Remote Test Switch & Pilot Light Kit (includes plate)

Dimensions



Dimensions are approximate and subject to change.

Illumination

The L3000T provides 90 minutes of emergency illumination, and produces a maximum of 3500 initial lamp lumens. The L3000 can be used with most 17w to 215w (2' - 8') T8, T10 or T12 fluorescent lamps without integral starters including U-shaped, HO, VHO, circline, energy saving, and 4 pin twin, quad, and triple twin-tube compacts. The L3000T 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 a slight delay when switching back to AC operations. This prevents the AC ballast from shutting down due to a false end of lamp life detection.

Suggested Specification

Furnish and install LightGuard's fluorescent emergency ballast model L3000T. 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.

TRANSFER - The transfer shall consist of a time delay circuit to provide a slight delay when switching back to AC operations. This prevents the AC ballast from shutting down due to a false end of lamp life detection.

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 housing frame mounting on most recessed luminaires.

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



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