

bodine

Emergency Ballast

Linear fluorescent

B50LP



Project: _____
Location: _____
Cat.No: _____
Type: _____
Lamps: _____ Qty: _____
Notes: _____

Low-Profile for Space-Limited Fixtures
1300 Initial Lumen Output
End-of-Lamp-Life Compatible

Product order number: B50LP (metal case)

Specifications

UL Listed for US and Canada

Factory or Field Installation
(Indoor and Damp)

Illumination Time

90 Minutes

Initial Light Output

750 - 1300 Lumens

Full Warranty

5 Years (NOT pro-rata)

Dual Input Voltage

120/277 VAC, 60 Hz

AC Input Current

200 mA

AC Input Power Rating

4.0 Watts

Test Switch

Single Pole

Battery

High-Temperature, Maintenance-Free
Nickel-Cadmium Battery
7- to 10-Year Life Expectancy

Battery Charging Current

180 mA

Recharge Time

24 Hours

Charging Indicator Light

LED

Temperature Rating (Ambient)

0°C to +50°C (32°F to 122°F)

Dimensions

21.5" x 1.18" x 1.18"
(546 mm x 30 mm x 30 mm)
Mounting Center 21.1" (536 mm)

Weight

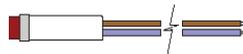
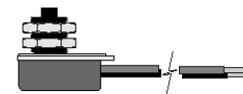
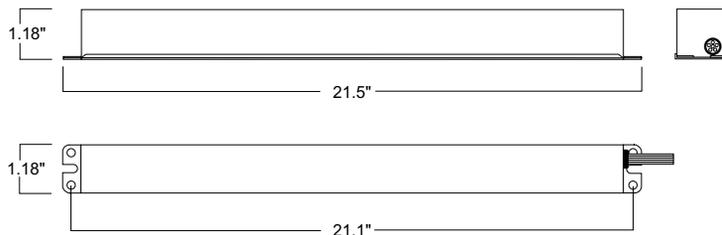
3.3 lbs. (1.5 kg)

Benefits:

- Low Profile case
- Emergency mode lumen output up to 1300 lumens
- One or Two-lamp operation
- End-of-Lamp-Life Compatible

Dimensions

21.5" x 1.18" x 1.18" (mounting center - 21.1")



An illuminated test switch and charging indicator light is provided.

B50LP Fluorescent emergency ballast, low-profile for space-limited fixtures

Application

The B50LP low-profile emergency ballast works in conjunction with a low-profile or standard-size AC ballast to convert new or existing fluorescent fixtures into unobtrusive emergency lighting. The emergency ballast consists of a high-temperature nickel-cadmium battery, charger and electronic circuitry in one compact case. The B50LP can be used with most 17 - 215 W (2' - 8') T8, T9, T10 or T12 fluorescent lamps without integral starters, including U-shaped, HO, VHO, circline and energy-saving fluorescent lamps. One- or two-lamp operation may be selected (see Table 1). It is also compatible with most one-, two-, three- and four-lamp electronic, standard, energy-saving and dimming AC ballasts. If used in an emergency-only fixture, no AC ballast is necessary. The B50LP is suitable for indoor and damp locations and for sealed & gasketed fixtures, including fixtures rated for wet locations. It is not suitable for air handling heated air outlets or wet or hazardous locations. For information about specific lamp and ballast compatibility, please contact the factory. Recommended applications include: emergency lighting for pendant, cove, recessed indirect/direct, surface-mount and architectural lighting commonly used in office, hospitality, health care, retail and educational facilities.

Operation

When AC power fails, the B50LP immediately switches to the emergency power, operating either one or two lamps at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the emergency ballast automatically returns to the charging mode and, using a patented circuit, delays AC ballast operation for approximately three seconds to prevent false tripping of the AC ballast end-of-lamp-life shutdown circuits.

Installation

The B50LP does not affect normal fixture operation and may be used with either a switched or unswitched fixture. If a switched fixture is used, an unswitched hot lead must be connected to the emergency ballast. The emergency ballast must be fed from the same branch circuit as the AC ballast. The B50LP may be installed inside, on top of or remote from the fixture. The emergency ballast may be remotely installed up to half the distance the AC ballast manufacturer recommends removing the AC ballast from the lamp or up to 50 feet, whichever is less. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C.

Emergency Illumination

Depending on the number (one or two), wattage and type of lamps selected, the B50LP produces 750 to 1300 lumens initial emergency light output (see Table 2). If two-lamp operation is selected, light output is evenly divided between the lamps for better distribution of emergency illumination.

Specification

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a Philips Bodine B50LP low-profile emergency ballast. The B50LP consists of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 21.5" x 1.18" x 1.18" galvanized steel case. A solid-state charging indicator light to monitor the charger and battery, a single-pole test switch and installation hardware shall be provided. The emergency ballast, using a patented circuit, shall delay AC ballast operation for approximately three seconds to prevent false tripping of AC ballast end-of-lamp-life shutdown circuits. The emergency ballast shall be capable of operating [one or two] _____ fluorescent lamp(s) (see Table 1) at _____ lumens (see Table 2) initial light output in the emergency mode for a minimum of 90 minutes. It shall be suitable for indoor and damp locations and for sealed & gasketed fixtures, including fixtures rated for wet locations. The B50LP shall have 4 Watts of input power and a 21.0 Watt-hour battery capacity and shall exceed emergency standards set forth by the current NEC. The emergency ballast shall be UL Listed for installation inside, on top of or remote from the fixture.

Warranty

Model B50LP is warranted for five (5) full years from date of purchase. Please see detailed warranty information on our web site.

Table 1 Lamp Compatibility

LAMP DIAMETER	BASE	WATTAGE (Length)	NO. of LAMPS (EMERGENCY)
(T8, T9, T10, T12)	Single or Bipin	17 - 40 W (2' - 4')	1
			2
		17 - 215 W (2' - 8')	1

Table 2 Initial Lumen Output

LAMP	LUMENS	
	1 Lamp	2 Lamp
FO25, FBO24 T8	950	900
FO32, FBO31 T8	1050	950
FO96, T8	1050	
F017, FBO16 T8	800	750
F40T12, F40/U	850	900
F48T12/HO	900	
F96T12, HO, VHO	850	
F39/36BX, PL-L 36 W, DULUX L 39 W	900	850
F40 T12 ES (34 W)	750	750

Test results at 25°C, lamp-loads are new fresh model lamps.

