

# bodine

## Emergency Ballast

Linear fluorescent

B50-CAN



Project: \_\_\_\_\_  
Location: \_\_\_\_\_  
Cat.No: \_\_\_\_\_  
Type: \_\_\_\_\_  
Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
Notes: \_\_\_\_\_

Specification Grade  
UL Listed for US and Canada  
Dual Input 120/347  
One or Two-lamp Operation

Product order number: B50CANREDM (galvanized metal case)

### Specifications

#### UL Listed for US and Canada

Listed to UL924 and tested to CSA 22.2 No. 141  
Field or Factory Installation (Indoor and Damp)  
Output Class 2 Compliant

#### Illumination Time

90 Minutes

#### Initial Light Output

1100 - 1400 Lumens

#### Full Warranty

5 Years (NOT pro-rata)

#### Dual Input Voltage

120/347 VAC, 60 Hz

#### AC Input Current

280 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

280 mA

#### Recharge Time

24 Hours

#### Charging Indicator Light

LED

#### Temperature Rating (Ambient)

0°C to +55°C (32°F to 131°F)

#### Dimensions

13.3" x 2.4" x 1.5"  
(339 mm x 60 mm x 38 mm)  
Mounting Center 12.8" (325 mm)

#### Weight

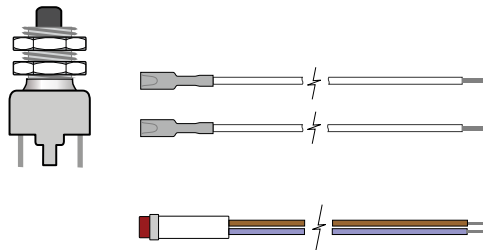
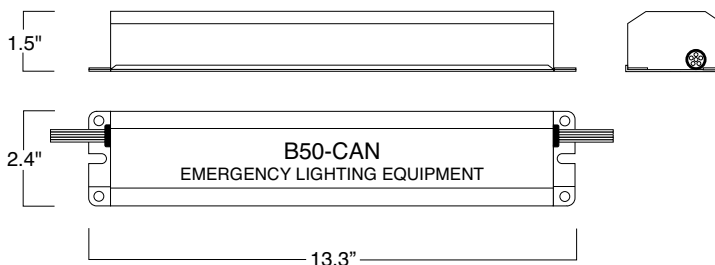
3.4 lbs. (1.54 kg)

### Benefits:

- Emergency mode lumen output up to 1400 lumens
- Dual input voltage 120/347 VAC 60Hz
- One or Two-lamp operation

### Dimensions

13.3" x 2.4" x 1.5" (mounting center - 12.8")



A test switch and charging indicator light is provided.

# B50-CAN Fluorescent emergency ballast, one- or two-lamp illumination

## Application

The B50-CAN fluorescent emergency ballast works in conjunction with an AC ballast to convert new or existing fluorescent fixtures into emergency lighting. The emergency ballast consists of a high-temperature nickel cadmium battery, charger and electronic circuitry in one compact red case. The B50-CAN 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. 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 B50-CAN is for use in indoor fixtures except air handling heated air outlets, and wet, damp, or hazardous locations. It is not suitable for wet or hazardous locations. For information about specific lamp and ballast compatibility, please call the factory.

## Operation

When AC power fails, the B50-CAN immediately switches to the emergency mode, operating either one or two lamps at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the B50-CAN automatically returns to the charging mode.

## Installation

The B50-CAN 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 B50-CAN 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 B50-CAN produces 1100 to 1400 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 Bodine B50-CAN emergency ballast. This emergency ballast shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 13 3/8" x 2 3/8" x 1 1/2" red metal 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 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 locations. The B50-CAN shall have 4 Watts of input power and a 24 Watt-hour battery capacity and shall exceed emergency standards set forth by the current National Building Code of Canada and the Canadian Electrical Code. The emergency ballast shall be UL Listed (Pending) for factory or field installation and warranted for a full five years from date of purchase.

## Warranty

Model B50-CAN is warranted for five (5) full years from date of purchase. This warranty covers only properly installed Bodine emergency ballasts used under normal conditions. For the warranty period, Bodine Emergency Lighting will, at its option, repair or replace without charge a defective emergency ballast, provided it is returned to the factory transportation prepaid and our inspection determines it to be defective under terms of the warranty. Repair or replacement, as stated above, shall constitute the purchaser's exclusive warranty, which does not extend to transportation, installation, labor or any other charges; nor does it apply to any equipment of another manufacturer used in conjunction with the emergency ballast.

**Table 1 Lamp Compatibility**

LAMP DIAMETER (DIAMETER)	BASE TYPE	WATTAGE (Length)	NO. of LAMPS (EMERGENCY)
1", 1¼", 1½" T8, T10, T12	Single or Bipin	17 - 40 W	1
			2
		40 - 215 W	1

**Table 2 Initial Lumen Output**

LAMP	LUMENS	
	1 Lamp	2 Lamps
F25, FB24 T8	1250	1100
F32, FB31 T8	1350	1350
F96 T8	1400	
F17, FB16	1050	950
F40T12, F40/U	1100	1100
F48T12/HO	1200	
F96T12, HO, VHO	1100	
F40T12/ES (34 W)	975	

