

BDL94C

Fluorescent Emergency Ballast

PHILIPS bodine

A Division Of Philips Electronics North America Corporation

**One- or two-lamp emergency illumination for 4-pin fluorescent lamps (without integral starter)
End-of-lamp-life compatible**

Product Summary

UL LISTED

Factory or Field Installation
(Indoor and Damp)



Illumination Time

90 Minutes

Initial Light Output

300 - 750 Lumens

Full Warranty

2 Years (NOT pro-rata)

Dual Input Voltage

120/277 VAC, 60 Hz

AC Input Current

280 mA

AC Input Power Rating

3.5 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 + 50°C
(32°F to 122°F)

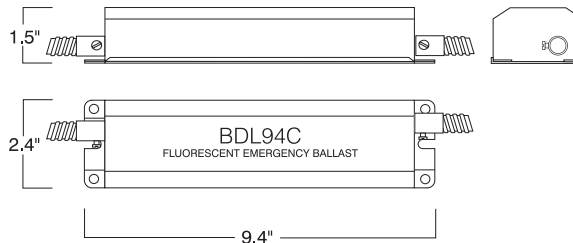
Dimensions

9.4" x 2.4" x 1.5"
(238 mm x 60 mm x 38 mm)
2' (610 mm) Flex Conduit Each End
Mounting Center 8.9" (226 mm)

Weight

3 lbs. (1.4 kg)

Emergency ballasts can be modified to accommodate special voltages, frequencies and longer run times.



APPLICATION

The BDL94C 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 BDL94C can be used with one 13 - 42 W or two 13 - 39 W (4-pin) twin, quad or triple twin-tube compacts. 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 BDL94C is suitable for indoor and damp locations. It is not suitable for air handling heated air outlets or wet or hazardous locations. **The BDL94C is not recommended for use with low mercury/amalgam (green) compact fluorescent lamps.** For information about specific lamp and ballast compatibility, please call the factory.

OPERATION

When AC power fails, the BDL94C 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 emergency ballast automatically returns to the charging mode and, using a patented circuit, delays AC ballast operation for approximately 3 seconds to prevent false tripping of the AC ballast end-of-lamp-life shutdown circuits.

INSTALLATION

The BDL94C 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 BDL94C may be installed 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. For simple visual inspection of the charging indicator light and easy operational testing, the test/monitor plate can be installed near the fixture wall switch. It may also be installed in the ceiling near the fixture to ensure an unobtrusive installation. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C.

UL AND CODE COMPLIANCE

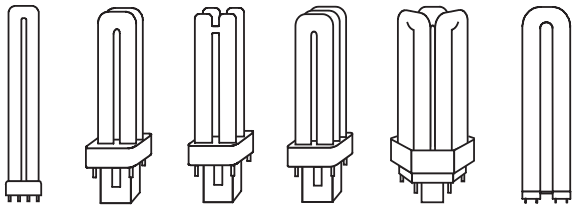
The BDL94C has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment," and is UL Listed for factory or field installation. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC) and UL 90-minute requirements.

Specifiers Reference

Project _____ Type _____ Model No. _____
Comments _____

L2000064

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**One- or two-lamp emergency illumination for 4-pin fluorescent lamps (without integral starter)
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EMERGENCY ILLUMINATION

Depending on the number (one or two), wattage and type of lamps selected, the BDL94C produces 300 to 750 lumens initial emergency light output (see Table 1). If two-lamp operation is selected, light output is evenly divided between the lamps for better distribution of emergency illumination. Emergency lumen output will be less with one-lamp operation.

SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a Philips Bodine BDL94C emergency ballast. This emergency ballast shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 9 3/8" x 2 3/8" x 1 1/2" red metal case with 2' of flexible conduit at each end. A test/monitor plate with 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 3 seconds to prevent false tripping of AC ballast end-of-lamp-life shut-down circuits. The emergency ballast shall be capable of operating [one or two] _____ fluorescent lamp(s) at _____ lumens (see Table 1) initial light output in the emergency mode for a minimum of 90 minutes. It shall be suitable for indoor and damp locations. The BDL94C shall have 3.5 Watts of input power and a 14.4 Watt-hour battery capacity and shall comply with emergency standards set forth by the current NEC. The emergency ballast shall be UL Listed for installation on top of or remote from the fixture and shall be warranted for a full two years from date of purchase.

WARRANTY

Model BDL94C is warranted for two (2) full years from date of purchase. This warranty covers only properly installed Philips Bodine emergency ballasts used under normal conditions. For the warranty period, Philips 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 - Initial Lumen Output

LAMP (4-PIN)	LUMENS	
	1 Lamp	2 Lamps
PL-T 42 W/4P, Dulux T/E 42W	750	
PL-T 32 W/4P, Dulux T/E 32 W	575	750
PL-T 26 W/4P, Dulux T/E 26 W, F26TBX/4P	450	725
PL-T 18 W/4P, Dulux T/E 18 W, F18TBX/4P	300	525
PL-C 26 W/4P, Dulux D/E 26 W, F26DBX/4P	600	700
PL-C 18 W/4P, Dulux D/E 18 W, F18DBX/4P	475	575
PL-C 13 W/4P, Dulux D/E 13 W, F13DBX/4P	350	425
PL-L 40 W, DULUX L 40 W, F40/30BX/4P	650	
PL-L 36 W, DULUX L 39 W, F39/36BX/4P	575	750
PL-L 24 W, DULUX L 27 W, F27/24BX/4P	475	550
PL-L 18 W, DULUX L 18 W, F18 BX	300	400
F382D/4P	525	650
FQL 28	600	700

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