CF94

EMERGENCY LIGHTING EQUIPMENT

PHILIPS
bodine

A Division Of Philips Electronics North America Corporation

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

Product Summary

UL COMPONENT RECOGNIZED
Factory Installation Only

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

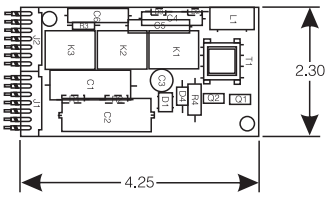
Temperature Rating (Ambient)
0°C to + 55°C
(32°F to 131°F)

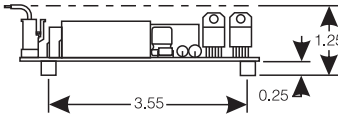
Dimensions
4.25" x 2.30" x 1.25"
(108 mm x 58 mm x 32 mm)
Vertical Mounting Center 1.85" (47 mm)
Horizontal Mounting Center 3.55" (90 mm)

Weight
1.6 lbs. (0.73 kg)

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

For damp applications, order model BDL014.





APPLICATION

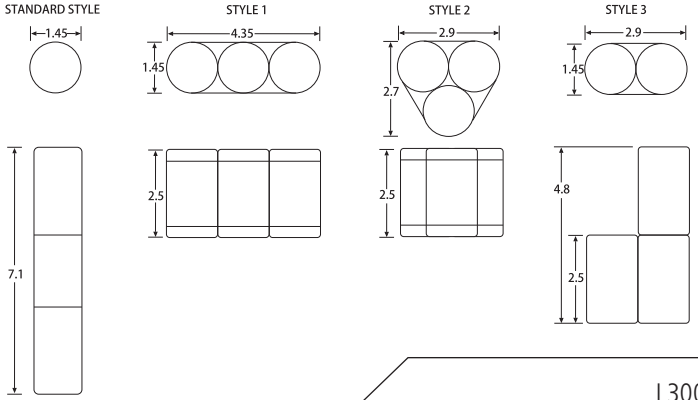
The CF94 open circuit design is a UL RECOGNIZED COMPONENT that works in conjunction with an AC ballast to convert fluorescent fixtures into emergency lighting. The open circuit design consists of a high-temperature nickel-cadmium battery (available in two configurations for ease of installation), charger and electronic circuitry on one open circuit board. A single-pole push-button test switch and LED charging indicator light are also provided. The CF94 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. This component is incomplete in certain construction features or restricted in performance capabilities. It is not intended for separate field installation; rather it is intended for use as a component of complete equipment submitted for investigation by Underwriters Laboratories. Final acceptance of the component in the complete equipment is dependent upon its installation and use in accordance with all applicable conditions and ratings noted in the component report issued by UL. The CF94 may be used in a variety of fluorescent fixtures. The CF94 is suitable for indoor locations. It is not suitable for air handling heated air outlets or wet, damp or hazardous locations. **The CF94 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 CF94 immediately switches to the emergency mode, operating one or two lamps at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the CF94 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 CF94 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. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C.

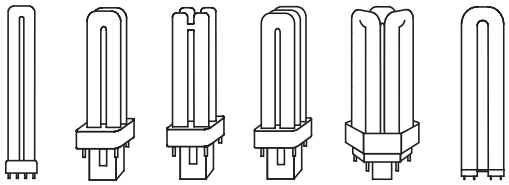


Specifiers Reference

L3000010

Project _____ Type _____ Model No. _____

Comments _____



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UL AND CODE COMPLIANCE

The CF94 has been tested by Underwriters Laboratories in accordance with the standards set forth in UL 924, "Emergency Lighting and Power Equipment," and is UL Component Recognized for factory installation only. Emergency illumination time exceeds the National Electrical Code (NEC), Life Safety Code (NFPA-LSC) and UL 90-minute requirements.

EMERGENCY ILLUMINATION

Depending on the number (one or two), wattage and type of lamps selected, the CF94 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.

WARRANTY

The CF94 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
FO25, FBO24 T8	525	700
FQL 28	600	700
FO17, FBO16 T8	425	500

Partial list of lamps operated.

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