



Emergency Ballasts

Compact Fluorescent

B4CF3 Cold-Pak



## Cold-Pak for Extreme Temps Specification Grade One-lamp Emergency Illumination For Damp Locations

Product order number: B4CF3 (galvanized metal case)

Project: \_\_\_\_\_  
Type: \_\_\_\_\_  
Model No: \_\_\_\_\_ Qty: \_\_\_\_\_  
Date: \_\_\_\_\_  
Notes: \_\_\_\_\_

### 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

Up to 1250 Lumens @ 25°C

#### Full Warranty

5 Years (NOT pro-rata)

#### Dual Input Voltage

120/277 VAC, 60 Hz

#### AC Input Current

300 mA

#### AC Input Power Rating

Heater On: 16 Watts  
Heater Off: 4 Watts

#### Test Switch/Charging Indicator Light

Illuminated Test Switch

#### Battery

High-Temperature, Maintenance-Free

#### Nickel-Cadmium Battery

7- to 10-Year Life Expectancy

#### Battery Charging Current

220 mA

#### Recharge Time

24 Hours

#### Temperature Rating (Ambient)

-20°C to +55°C (-4°F to +131°F)

#### Dimensions

6.0" x 5.5" x 1.625"  
(153 mm x 140 mm x 41 mm)  
Mounting Center 5.5" (140 mm)

#### Weight

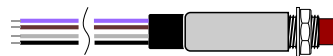
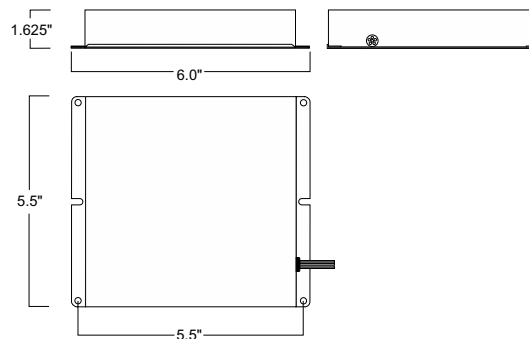
2.5 lbs. (1.14 kg)

### Benefits:

- Operating range from -20°C to +55°C
- Up to 1250 lumens @ 25°C
- End-of-Lamp-Life Compatible

### Dimensions

6.0" x 5.5" x 1.625" (mounting center - 5.5")



An illuminated test switch/charging indicator light is provided.



# B4CF3 Cold-Pak

## Flourescent Emergency Ballast, Extreme Temps, One-Lamp Emergency Illumination

**Table 1** Lamp Compatibility

LAMP	BASE	WATTAGE
TWIN/QUAD/TRIPLE TWIN/ QUADRUPLE TWIN-TUBE COMPACT	4-PIN (G24q, GX24q)	13-42 W
LONG COMPACT	4-PIN (2G11)	18-39 W
T5 CIRCLINE	4-PIN (2GX13)	22-40 W

**Table 2** Initial Lumen Output

LAMP (4-Pin)	LUMENS
	1 Lamp
F42QBX, DULUX T/E 42W	1250
REDUCED MERCURY 42W/4P	850
32W/4P, F32TBX, DULUX T/E 32W	1250
REDUCED MERCURY 32W/4P	1100
PL-T 26W/4P, F26TBX, DULUX T/E 26W	700
PL-T 18W/4P, F18TBX, DULUX T/E 18W	900
PL-T 13W/4P, F13TBX, DULUX T/E 13W	700
PL-L 36W, PHILIPS	1100
F39/36BX, DULUX L 36W	1250
PL-L 24W, F27/24BX, DULUX L 27W	800
PL-L 18W, F18BX, DULUX L 18W	775
FC9T5, FPC22	700
FC12T5, FC12T5/HO, FPC40	1000

### APPLICATION

The B4CF3 Cold-Pak emergency ballast works in conjunction with an AC ballast to convert new or existing fluorescent fixtures into emergency lighting. The emergency lighting equipment consists of a high-temperature nickel-cadmium battery, charger and electronic circuitry in one compact case. The B4CF3 Cold-Pak can be used with one 13 - 42 W twin, quad or triple twin-tube lamp, one 22 - 40 W T5 circline or one 18 - 39 W long compact fluorescent lamp. It is also compatible with most one-, two-, three- and four-lamp electronic, standard, energy-saving and dimming AC ballasts. The B4CF3 Cold-Pak 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 call the factory.

### OPERATION

When AC power fails, the B4CF3 Cold-Pak immediately switches to the emergency mode, operating one lamp at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the Cold-Pak either heats the battery or charges it, depending on the unit's ambient temperature. The B4CF3 Cold-Pak, using a patented circuit, delays AC ballast operation for approximately three (3) seconds to prevent false tripping of the AC ballast end-of-lamp-life shutdown circuits.

### INSTALLATION

The B4CF3 Cold-Pak does not affect normal fixture operation. It 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 B4CF3 Cold-Pak may be installed inside or on top of the fixture.

### EMERGENCY ILLUMINATION

Depending upon the wattage and type of lamp selected, the B4CF3 Cold-Pak produces up to 1250 lumens initial emergency light output (see Table 2) at 25°C. Lumen output is greatly affected by lamp temperature during operation by either the AC or emergency ballast. Please contact factory for specific details.

### SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with a Philips Bodine Cold-Pak emergency ballast. The B4CF3 Cold-Pak shall have temperature-control circuitry to fulfill both low-temperature and high-temperature operation. This emergency ballast shall consist of a high-temperature, maintenance-free nickel-cadmium battery, charger and electronic circuitry contained in one 6.0" x 5.5" x 1.625" metal case. An illuminated test switch that combines a single-pole test switch with a

solid-state charging indicator light shall be provided with installation hardware. The emergency ballast, using a patented circuit, shall delay AC ballast operation for approximately three (3) seconds to prevent false tripping of the AC ballast end-of-lamp-life shutdown circuits. The emergency ballast shall be capable of operating one \_\_\_\_\_ fluorescent lamp (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 storage and operating temperature range for the B4CF3 shall be -20°C to +55°C. The B4CF3 shall have 16 Watts of input power and a 19.2 Watt-hour battery capacity and shall exceed emergency standards set forth by the current NEC. The B4CF3 shall be UL Listed (Pending) for factory or field installation.

### WARRANTY

Model B4CF3 Cold-Pak is warranted for five (5) full years from date of purchase. Please see detailed warranty information on our web site.

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