



Philips Low Mercury Compatible FEB Line

Philips Emergency Lighting is always looking for ways to bring the best in emergency lighting technology to you. We work to stay on top of advancements and other developments in the lighting industry.

Like most industries today, lighting is subject to constant change. New technologies, new standards, new designs, new products from AC ballast manufacturers and an influx of new lamp types are both expected and challenging. While many factors drive industry change, environmental issues rank solidly as strong catalysts. Low mercury lamps offer a prime example of industry change advanced by environmental influence.

Low Mercury Compatible FEB Line

Because of environmental concerns about mercury and the need to comply with standards set by the Environmental Protection Agency's Toxicity Characteristic Leaching Procedure (TCLP), most lamp manufacturers have reduced the mercury content in their products.*

However, low mercury lamps, while environmentally responsible, have created challenges to emergency lighting, and the lower the mercury content, the more of a challenge they become.



Mercury affects the starting and operating characteristics of lamps in both emergency and normal modes. Philips Emergency Lighting has observed problems such as reduced lumen output and improper color rendering when low mercury compact lamps, paired with fluorescent emergency ballasts, operate in the emergency mode with a DC output. Any emergency ballast that runs a compact lamp with DC could be subject to these issues.

In response to problems associated with low mercury compacts and emergency lighting, we introduced a line of fluorescent emergency ballasts compatible with low mercury lamps beginning in 2006. (See chart.) Our low mercury compatible emergency ballasts ensure that buildings can “go green” without compromising emergency lighting requirements. If you have any questions about our low mercury line, please contact us.

*TCLP determines whether or not spent fluorescent lamps should be characterized as hazardous waste.



Product Comparison for Low Mercury (Green) Lamps

Model	No. of Lamps	Lumen Output	Types of Lamps Operated	Features
B94G	1 lamp	300 - 750 lm	13-42 W (4-pin) twin, quad or triple twin-tube	ELC*; Compatible with low-mercury (green) lamps; Suitable for damp locations and for sealed & gasketed fixtures; UL Listed
B94CG	1 lamp	300 - 750 lm	13-42 W (4-pin) twin, quad or triple-tube compact	ELC; Compatible with low-mercury (green) lamps; Suitable for damp locations; UL Listed
B84CG	1 lamp	700 to 1250 lm	13-42 W twin, quad or triple twin-tube; 22-40 W T5 circline; or 18-39 W long compact	ELC; Compatible with low-mercury (green) lamps; Suitable for damp locations; UL Listed
B4CFG	1 lamp	Up to 1250 lm	13-42 W (4-pin) twin, quad or triple twin-tube; 22-40 W T5 circline; or 18-39 W long compact	ELC; Compatible with low-mercury (green) lamps; Suitable for damp locations and for sealed & gasketed fixtures; UL Listed / CSA Certified
B4CF1	1 lamp	700 - 1250 lm	13-42 W (4-pin) twin, quad or triple twin-tube; 22-40 W T5 circline; or 18-39 W long compact	ELC; Compatible with low-mercury (green) lamps; Suitable for extended temperatures; Suitable for damp locations and for sealed & gasketed fixtures; UL Listed / CSA Certified
B4CF2	1 lamp	700 - 1250 lm	13-42 W (4-pin) twin, quad or triple twin-tube; 22-40 W T5 circline; or 18-39 W long compact	ELC; Compatible with low-mercury (green) lamps; Suitable for extended temperatures; Suitable for damp locations; UL Listed / CSA Certified
B4CF3	1 lamp	450 - 950 lm	13-42 W (4-pin) twin, quad or triple twin-tube; 22-40 W T5 circline; or 18-39 W long compact	ELC; Compatible with low-mercury (green) lamps; Suitable for extended temperatures; Suitable for damp locations and for sealed & gasketed fixtures; UL Listed / CSA Certified
B75C	1 lamp	600 - 1300 lm	32-70 W (4-pin) triple twin-tube	ELC; Compatible with low-mercury (green) lamps; Suitable for damp locations; UL Listed
LP500	1 lamp	400 - 700 lm	21-54 W (2'-4") T5 or 22 W (4") T8	ELC; Compatible with low-mercury (green) lamps; Suitable for damp locations and for sealed & gasketed fixtures; UL Listed
LP550	1 lamp	390 - 700 lm	High output T5	ELC; Compatible with low-mercury (green) lamps; Suitable for damp locations and for sealed & gasketed fixtures; UL Listed
LP600	1 lamp	600 - 1325 lm	Standard or high output T5 or T8	ELC; Compatible with low-mercury (green) lamps; Suitable for damp locations and for sealed & gasketed fixtures; UL Listed / CSA Certified
LP600STU	1 lamp	600 - 1325 lm	Standard or high output T5 or T8	ELC; Compatible with low-mercury (green) lamps; Universal Input; Suitable for damp locations and for sealed & gasketed fixtures; Self-Testing; UL Listed / CSA Certified

* ELC protects low-voltage circuits that delay the AC ballast operation for approximately 3 seconds to prevent false tripping of the AC ballast and all lamp-life shutdown circuits.

Philips Bodine Emergency LED Drivers

Philips Emergency Lighting, the leader in solution-driven technology, answers the call for emergency lighting in LED applications. Our Philips Bodine emergency LED drivers allow LED fixtures to serve as code-compliant emergency lighting sources and are available for a variety of fixture types and environments.

BSL17C

- Ideal for LED downlight applications
- 90-minute code-compliant runtime
- Dual input (120/277, 60 Hz)
- Operates lighting load up to 7.0 W
- Suitable for indoor and damp. Non-conduit BSL17 is also suitable for sealed & gasketed fixtures.
- Flexible output voltage range of 30 to 80VDC
- Multiple mounting configurations
- UL Component Recognized for factory installation only; CSA Certification pending
- Compatible with Philips Lightolier Calculite system

BSL23C

- Ideal for LED downlight and steplight applications
- 90-minute code-compliant runtime
- Dual input (120/277 V, 60 Hz)
- Operates lighting load up to 3.5 W
- Suitable for indoor and damp. Non-conduit BSL23 is also suitable for sealed & gasketed fixtures.
- Flexible output voltage range of 3 to 20VDC
- Multiple mounting configurations
- UL Component Recognized for factory installation only
- Category winner at Lightfair 2008



B50-CAN Double Listed

Philips Emergency Lighting's B50-CAN is cUL Listed and CSA Certified (NRTL/C). The cUL assignment indicates that the product has been UL tested to the CSA standard and is approved by UL for use in Canada only. The CSA Certification indicates that the B50-CAN has been tested to the appropriate CSA standard by a Nationally Recognized Testing Laboratory (NRTL) and is approved by CSA for use in Canada or the U.S. Because of this double listing, the B50-CAN is the ideal fluorescent emergency ballast for reducing inventories when listing preferences – CSA or UL – are a factor.

Test Switches on the Website

Parts pages, including test switches, are available on the Philips Emergency Lighting website, www.philips.com/bodine. They may be viewed or downloaded from the Downloads page, which is accessible through the Downloads dropdown menu on our homepage.

BSL26C

- Ideal for LED downlight applications
- 90-minute code-compliant runtime
- Dual input (120/277 V, 60 Hz)
- Operates a lighting load up to 5.1 W
- Suitable for indoor and damp. Non-conduit BSL26 is also suitable for sealed & gasketed fixtures.
- Flexible output voltage range of up to 30VDC
- Multiple mounting configurations
- UL Component Recognized for factory installation only; CSA Certification pending

BSL722

- Ideal for LED security lighting and other high-brightness outdoor applications
- 90-minute code-compliant runtime
- Universal input (120-277 V, 50/60 Hz)
- Operates a lighting load up to 23.1 W
- Suitable for damp locations and for sealed & gasketed fixtures
- Includes two field-replaceable battery packs. Batteries are separate from the driver for increased installation flexibility.
- Flexible output voltage range of 28 to 33 VDC
- UL Component Recognized for factory installation only; CSA Certified



BSL722 Cold

- Ideal for LED security lighting and other high-brightness outdoor applications and for cold environments
- Temperature range of -4° F to +140° F (-20° C to +60° C)
- 90-minute code-compliant runtime
- Universal input (120-277 V, 50/60 Hz)
- Operates a lighting load up to 23.1 W
- Suitable for damp locations and for sealed & gasketed fixtures
- Includes two field-replaceable battery packs. Batteries are separate from the driver for increased installation flexibility.
- Flexible output voltage range of 28 to 33 VDC
- UL Component Recognized for factory installation only; CSA Certified

RMA Form Online

The Philips Emergency Lighting RMA form is available online at www.bodine.com/sales/rma.html. Please use this form for all RMA requests and inquiries. RMAs are typically confirmed within 24 to 48 hours. Please share the web address with others inside your organization.



Tech Q & A

Q. Is the B33 fluorescent emergency ballast compatible with rapid or program start AC ballasts?

A. No. The B33 is compatible only with parallel instant start AC ballasts.

Q. Are Cold-Pak® fluorescent emergency ballast models compatible with T5 lamps?

A. Cold-Paks do not operate T5 linear lamps. B4CF1, B4CF2 and B4CF3 are compatible with most 4-pin 2GX13 22-40W T5 circline lamps.

Q. Do Philips Bodine emergency lighting products contain PCBs (polychlorinated biphenyls)?

A. No. They do not now and never have! PCBs were banned in the U.S. in 1979.

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