

UV-B, BL & BLB

Special Coated Low Pressure Lamps

USHIO offers 3 types of special coated Low Pressure lamps: UV-B, BL, and BLB. These lamps are each coated with special blended phosphor to emit radiation peaking at 306nm (UV-B), 352nm (BL) or 368nm (BL & BLB).

The UV radiation emitted at specific wavelengths are used to create UV reaction and effects for various applications such as in Laboratory/Research, Industrial, Sanitation, Criminology, Cosmetics and Entertainment.

Manufacturing at an ISO9001 certified facility with tightly controlled manufacturing process, enables us to provide high quality lamps with reliable delivery to support your OEM product development as well as your daily operation.

These lamps are components which may be used by customers to manufacture a variety of finished products.

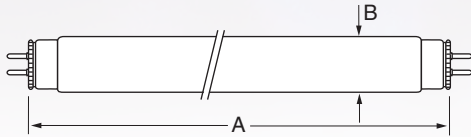
FEATURES & BENEFITS

- 3 Wavelength Variations: 306nm(UV-B), 352nm (UV-A) or 368nm(UV-A)
- Specially Blended Phosphor Coating for Maximum UV Effect and Output
- Low Mercury Dose to Meet Environmental Demands
- Large Production Capacity Providing Lamps With Consistent Quality and Reliable Delivery
- Flexible Design Capability for Custom Lamp Development

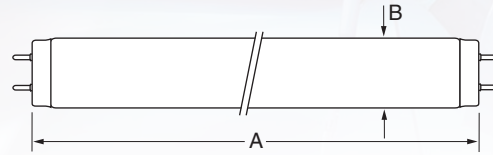
APPLICATIONS

- UV Curing
- Detection
- Inspection
- Insect Luring
- Photochemistry
- Chromatography
- Phototherapy
- Dermatology
- Laboratory/Research
- Fluorescence Analysis
- Fluorescence Display
- Fluorescence Illumination
- Non-Destructive Testing
- Special Effects in Theatrical Presentation

SPECIFICATIONS



T5
Miniature Bi-Pin G5 Base



T8 and T10
Medium Bi-Pin G13 Base

| Watts (W) | Ordering Code | Lamp Description | Dimensions | | Lamp Current (A) | Volts (V) | Spectral Peak (nm) | UV Output (W) | Average Life (h) | Base Type | | |
|-------------------------------------|---------------|------------------|-----------------|-----------------|------------------|-----------|--------------------|---------------|------------------|-----------|-------------------|-------------------|
| | | | Length (A) (mm) | Length (A) (in) | | | | | | | Diameter (B) (mm) | Diameter (B) (in) |
| UV-B (306nm) Midrange Lamp | | | | | | | | | | | | |
| 7.2 | 3000318 | G8T5E | 287.0 | 11.30 | 15.5 | 0.61 | 0.145 | 57 | 306 | 1.4 | 3000 | G5 |
| 14.7 | 3000319 | G15T8E | 436.0 | 17.17 | 25.5 | 1.00 | 0.300 | 55 | 306 | 3.0 | 4000 | G13 |
| 25.0 | 3000335 | G25T8E | 436.0 | 17.17 | 25.5 | 1.00 | 0.600 | 52 | 306 | 3.9 | 3000 | G13 |
| Half Coat (254nm/352nm) | | | | | | | | | | | | |
| 4.5 | 3000333 | G4T5/HC | 134.5 | 5.30 | 15.5 | 0.61 | 0.170 | 29 | 254 / 352 | 0.4 / 0.2 | 3000 | G5 |
| Blacklight T5 Diameter | | | | | | | | | | | | |
| 4.5 | 3000105 | F4T5BL | 134.5 | 5.30 | 15.5 | 0.61 | 0.170 | 29 | 352* | 0.5 | 3000 | G5 |
| 6.0 | 3000110 | F6T5BL | 210.5 | 8.29 | 15.5 | 0.61 | 0.147 | 42 | 352* | 1.0 | 3000 | G5 |
| 8.0 | 3000115 | F8T5BL | 287.0 | 11.30 | 15.5 | 0.61 | 0.145 | 57 | 352* | 1.2 | 3000 | G5 |
| Blacklight T8 Diameter | | | | | | | | | | | | |
| 15.0 | 3000077 | F15T8BL | 436.0 | 17.17 | 25.5 | 1.00 | 0.305 | 55 | 352* | 2.6 | 4000 | G13 |
| Blacklight Blue T5 Diameter | | | | | | | | | | | | |
| 4.5 | 3000106 | F4T5BLB | 134.5 | 5.30 | 15.5 | 0.61 | 0.170 | 29 | 368 | 0.5 | 3000 | G5 |
| 6.0 | 3000111 | F6T5BLB | 210.5 | 8.29 | 15.5 | 0.61 | 0.160 | 42 | 368 | 1.0 | 3000 | G5 |
| 8.0 | 3000116 | F8T5BLB | 287.0 | 11.30 | 15.5 | 0.61 | 0.145 | 57 | 368 | 1.2 | 3000 | G5 |
| Blacklight Blue T8 Diameter | | | | | | | | | | | | |
| 9.5 | 3000305 | F10T8BLB | 330.0 | 12.99 | 25.5 | 1.00 | 0.230 | 46 | 368 | 1.5 | 4000 | G13 |
| 15.0 | 3000078 | F15T8BLB | 436.0 | 17.17 | 25.5 | 1.00 | 0.305 | 55 | 368 | 2.6 | 4000 | G13 |
| 30.5 | 3000148 | F30T8BLB | 893.0 | 35.16 | 25.5 | 1.00 | 0.355 | 99 | 368 | 6.3 | 4000 | G13 |
| Blacklight Blue T10 Diameter | | | | | | | | | | | | |
| 19.0 | 3000306 | F20T10BLB | 588.5 | 23.17 | 32.5 | 1.28 | 0.360 | 58 | 368 | 3.7 | 4000 | G13 |

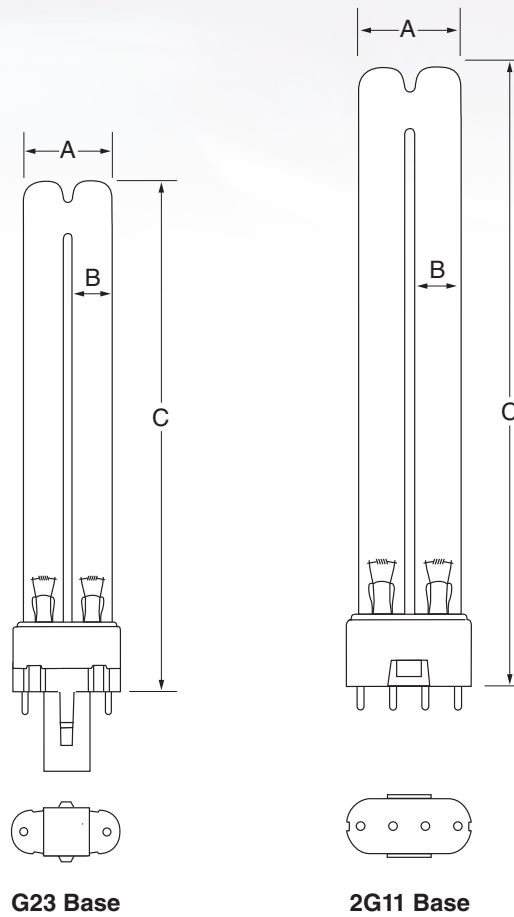
* 368nm available upon request

CALIFORNIA PROPOSITION 65 WARNING: These products can expose you to Mercury known to the state of California to cause birth defects or other reproductive harm. For more information, please go to: www.p65warnings.ca.gov.

 contains mercury
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Manage in Accord with Disposal Laws
www.lamprecycle.org 1-800-895-8842



G23 Base

2G11 Base

| Watts (W) | Ordering Code | Lamp Description | Dimensions | | | | Lamp Current (A) | Volts (V) | Spectral Peak (nm) | UV Output (W) | Average Life (h) | Base Type | | |
|---------------------------------|---------------|------------------|--------------|------|--------------|------|------------------|-----------|--------------------|---------------|------------------|-----------|------------|------|
| | | | Diameter (A) | | Diameter (B) | | | | | | | | Length (C) | |
| | | | (mm) | (in) | (mm) | (in) | (mm) | (in) | | | | | | |
| Blacklight Blue, Compact | | | | | | | | | | | | | | |
| 9.0 | 3000325 | FPX9BLB | 28.0 | 1.10 | 13.0 | 0.51 | 145.0 | 5.71 | 0.180 | 59 | 368 | 1.4 | 4000 | G23 |
| 18.0 | 3000327 | FPX18KBLB | 40.0 | 1.57 | 20.0 | 0.79 | 225.0 | 8.86 | 0.375 | 58 | 368 | 3.3 | 4000 | 2G11 |

Average lamp life and output measurements taken under laboratory conditions in open air. Lamps are cycled for 2 hours 45 minutes on / 15 minutes off when testing life and output. Lamp data is for reference only. Actual lamp performance depends on system design and operating conditions.

WARNING: Protect your eyes and skin when operating Germicidal lamps. Equipment should be designed to completely screen or filter UV-C radiation.

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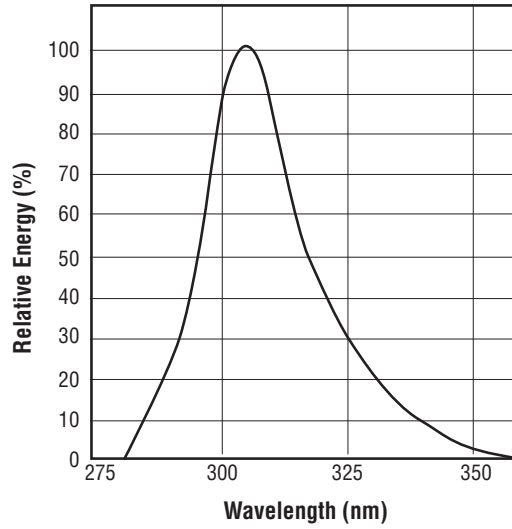
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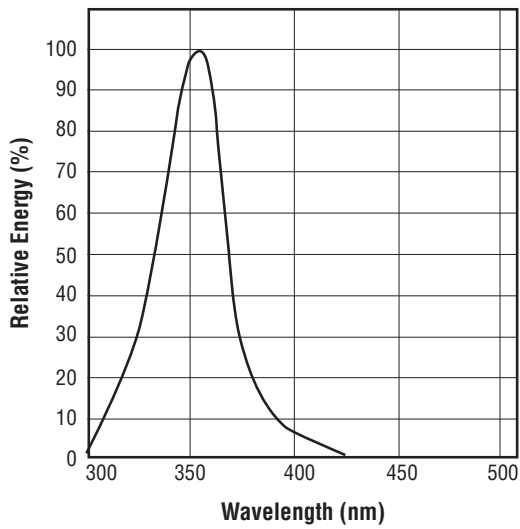
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WAVELENGTH ENERGY CHARTS

**UV-B Lamp
306nm**



**Blacklight Lamp (BL)
352nm**



**Blacklight Blue Lamp (BLB)
368nm**

