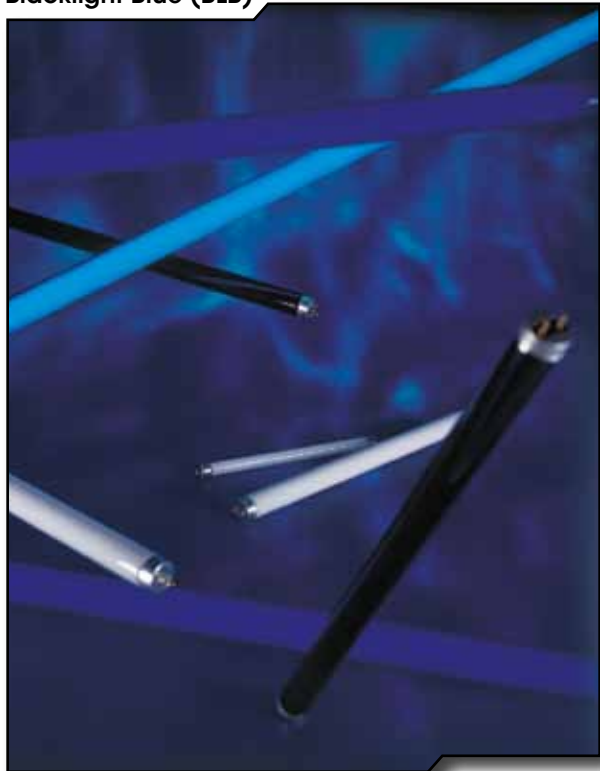


USHIO

ULTRAVIOLET LAMPS

**UV-B, Blacklight (BL),
Blacklight Blue (BLB)**



SPECIAL COATED LOW-PRESSURE MERCURY-ARC LAMPS

USHIO offers 3 types of special coated Low-Pressure Mercury-Arc 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.

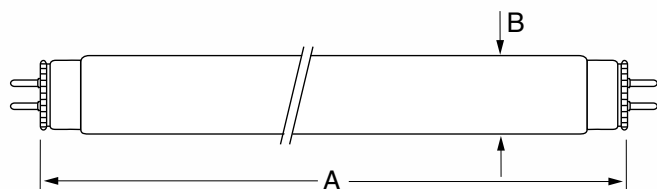
These lamps are components which may be used by customers to manufacture a variety of finished products.

FEATURES & BENEFITS

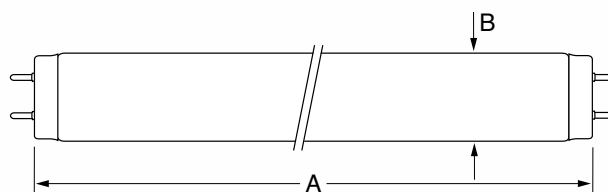
- 3 Wavelength variations: 306nm(UV-B), 352nm (UV-A) or 368nm(UV-A)
- Specially blended phosphor coating for maximum UV effect and output
- Low Mercury dose to meet environmental demands
- Large production capacity providing lamps with consistent quality and reliable delivery
- Flexible design capability for custom lamp development

APPLICATIONS

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



T5 Miniature Bi Pin G5 Base



T8 & T10 Medium Bi Pin G13 Base

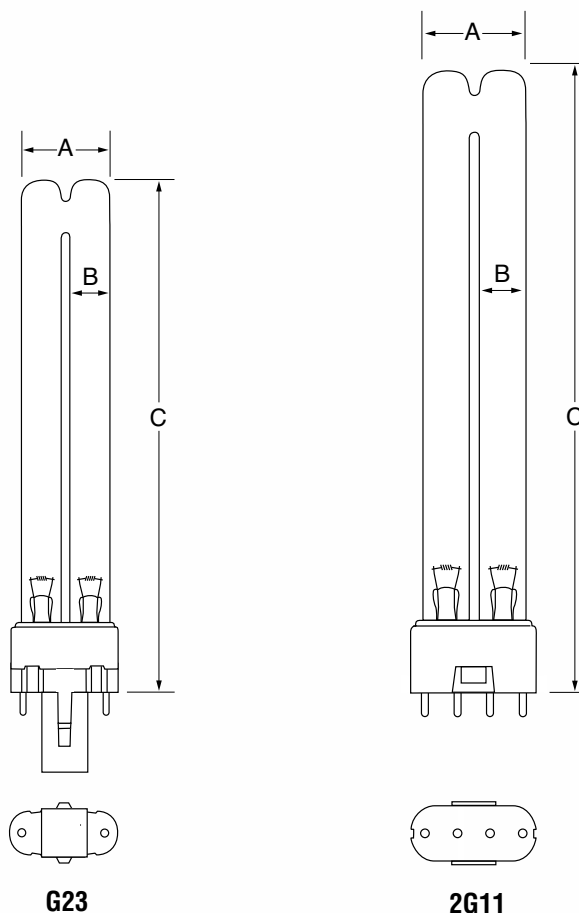
USHIO Ordering Code	USHIO Lamp Description	Dimensions				Watts (W)	Current (A)	Volts (V)	Spectral Peak (nm)	UV Output (W)	Avg Life (h)	Base
		Length (A)		Diameter (B)								
		(mm)	(in)	(mm)	(in)							
UV-B (306nm) MIDRANGE LAMP												
3000318	G8T5E	287.0	11.30	15.5	0.61	7.2	0.145	57	306	1.4	3000	G5
3000319	G15T8E	436.0	17.16	25.5	1.00	14.7	0.300	55	306	3.0	4000	G13
3000335	G25T8E	436.0	17.16	25.5	1.00	25.0	0.600	52	306	3.9	3000	G13
3000320	G40T10E	1198.0	47.17	32.5	1.28	39.5	0.420	106	306	9.3	5000	G13
HALF COAT (254nm/352nm)												
3000333	G4T5/HC	134.5	5.30	15.5	0.61	4.5	0.170	29	254 / 352	0.4 / 0.2	3000	G5
BLACKLIGHT T-5 DIAMETER												
3000105	F4T5BL	134.5	5.30	15.5	0.61	4.5	0.170	29	352**	0.5	3000	G5
3000110	F6T5BL	210.5	8.29	15.5	0.61	6.0	0.160	42	352**	1.0	3000	G5
3000115	F8T5BL	287.0	11.30	15.5	0.61	7.2	0.145	57	352**	1.2	3000	G5
BLACKLIGHT T-8 DIAMETER												
3000077	F15T8BL	436.0	17.17	25.5	1.00	15.0	0.305	55	352**	2.6	4000	G13
BLACKLIGHT BLUE T-5 DIAMETER												
3000106	F4T5BLB	134.5	5.30	15.5	0.61	4.5	0.170	29	368	0.5	3000	G5
3000111	F6T5BLB	210.5	8.29	15.5	0.61	6.0	0.160	42	368	1.0	3000	G5
3000116	F8T5BLB	287.0	11.30	15.5	0.61	7.2	0.145	57	368	1.2	3000	G5
BLACKLIGHT BLUE T-8 DIAMETER												
3000305	F10T8BLB	330.0	12.99	25.5	1.00	9.5	0.230	46	368	1.5	4000	G13
3000078	F15T8BLB	436.0	17.16	25.5	1.00	15.0	0.305	55	368	2.6	4000	G13
3000307	F18T8BLB*	588.5	23.17	25.5	1.00	18.0	0.370	57	368	3.7	4000	G13
3000148	F30T8BLB	893.0	35.16	25.5	1.00	30.5	0.355	99	368	6.3	4000	G13
3000308	F36T8BLB*	1198.0	47.17	25.5	1.00	36.0	0.430	103	368	8.1	8000	G13
BLACKLIGHT BLUE T-10 DIAMETER												
3000306	F20T10BLB	588.5	23.17	32.5	1.28	19.0	0.360	58	368	3.7	4000	G13
3000138	F40T10BLB	1198.0	47.17	32.5	1.28	39.5	0.420	106	368	8.1	5000	G13

* Preheat

** 368nm available upon request



CHARACTERISTICS & SPECIFICATIONS



G23

2G11

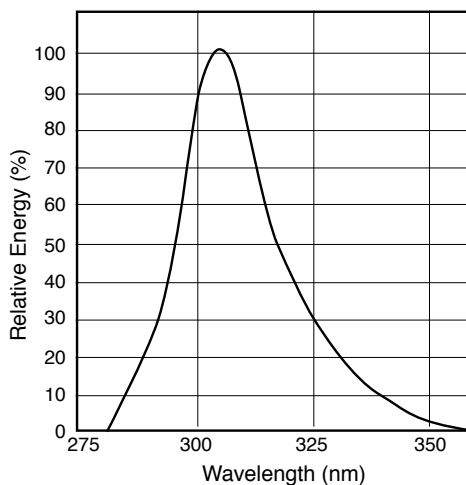
USHIO Ordering Code	USHIO Lamp Description	Diameter (A) (mm) (in)		Dimensions Diameter (B) (mm) (in)		Length (C) (mm) (in)		Watts (W)	Current (A)	Volts (V)	Spectral Peak (nm)	UV Output (W)	Avg Life (h)	Base
BLACKLIGHT, COMPACT LAMP														
3000331	FPX9BL	28.0	1.10	13.0	0.51	145.0	5.71	9.0	0.170	60	352**	1.4	4000	G23
3000332	FPX11BL	28.0	1.10	13.0	0.51	215.0	8.46	11.0	0.155	91	352**	1.7	4000	G23
BLACKLIGHT BLUE, COMPACT														
3000330	FPX7BLB	28.0	1.10	13.0	0.51	115.0	4.53	7.0	0.180	45	368	1.0	4000	G23
3000325	FPX9BLB	28.0	1.10	13.0	0.51	145.0	5.71	9.0	0.180	59	368	1.4	4000	G23
3000327	FPX18KBLB	40.0	1.57	20.0	0.79	225.0	8.86	18.0	0.375	58	368	3.3	4000	2G11

** 368nm available upon request

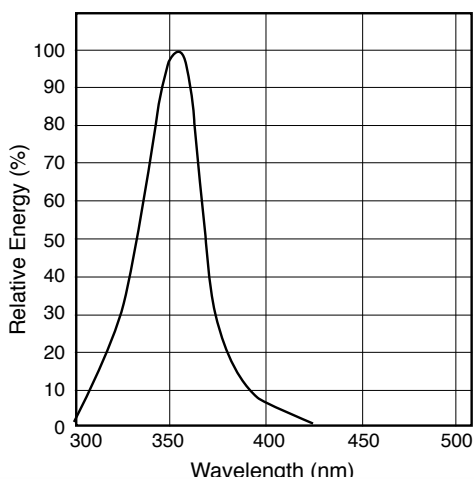
Average lamp life and output measurements taken under laboratory conditions in open air.
Lamps are cycled for 2hrs 45minutes on / 15minutes off when testing life and output.
Lamp data is for reference only. Actual lamp performance depends on system design and operating conditions.

Warning: Protect your eyes and skin when operating UV-B & BL lamps.
Equipment should be designed to completely screen or filter UV radiation.

UV-B Lamp
306nm



Blacklight Lamp (BL)
352nm



Blacklight Lamp (BL) &
Blacklight Blue Lamp (BLB)
368nm

