SPECTROLINE®

OPTI-LUX™ 365 Series UV-A LED Inspection Flashlights

Affordable, Super-Compact, UV-A LED Flashlights Designed Specifically for NDT!

OPTI-LUX™ 365 Series inspection flashlights feature a powerful UV-A (365 nm) LED light source coupled with a rugged anodized lamp body. Light-weight and compact, they reduce user fatigue while providing an extremely uniform beam profile that surpasses those of more expensive lamps. Available in <u>four models</u> to suit your specific NDT needs: high-intensity or standard-intensity versions, each with or without an internal black light filter.
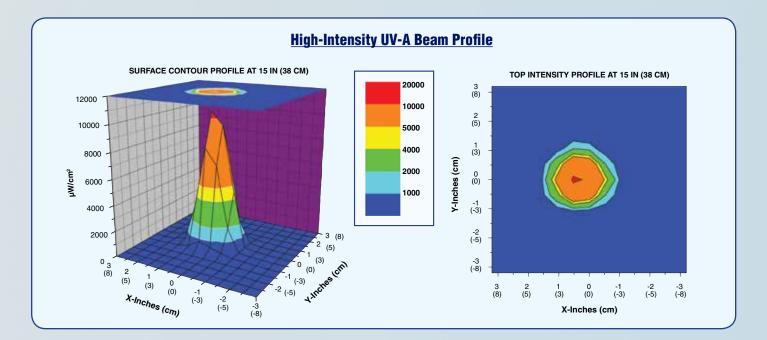
FEATURES:

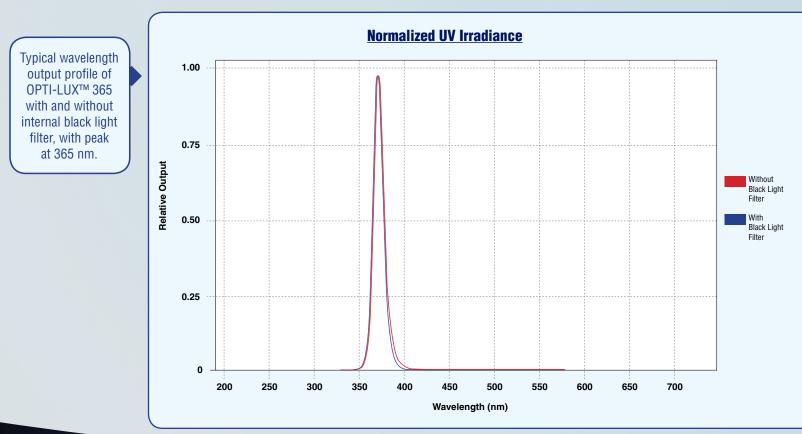- *Choice* of nominal steady-state UV-A intensity of **_10,000 µW/cm²_** or maximum of **_4,500 µW/cm²_** at 15 inches (38 cm)

- Coverage area up to 2.5 inch (6.3 cm) diameter at 15 inches (38 cm), with minimum UV-A intensity of _2,000 µW/cm²_

- Anodized aluminum lamp body minimizes corrosion and stands up to years of heavy use

- Instant-on operation; lamp reaches full intensity <u>immediately!</u>

- Convenient on/off switch for easy, one-handed operation

- 100,000-hour LED service life

- Powered by one rechargeable lithium-ion battery with an extra battery included with the lamp. Each provides 4 hours of continuous inspection between charges.

- Meets ASTM UV-A intensity and wavelength specifications for FPI and MPI

- Both high- and standard-intensity versions are available with internal black light filter. Externally mounted black light filter with rubber bumper can be purchased as an accessory.

- All models come with a *certificate of compliance* for <u>both</u> output and wavelength measurements

Two High-Intensity Models

OPTI-LUX™ 365 Series flashlights are available in two <u>high-intensity</u> models that are designed for NDT inspection applications requiring high UV-A output. The OLX-365 is equipped with a <u>clear filter,</u> while the OLX-365B comes with an <u>internal black light filter</u> that reduces the output of wavelengths longer than 400 nm. Both versions provide a nominal steady-state UV-A intensity of <u>10,000 µW/cm^2</u> at 15 inches (38 cm).

High-Intensity UV-A Beam Profile

SURFACE CONTOUR PROFILE AT 15 IN (38 CM)

TOP INTENSITY PROFILE AT 15 IN (38 CM)

	20000
	10000
	5000
	4000
	2000
	1000

Normalized UV Irradiance

Typical wavelength output profile of OPTI-LUX™ 365 with and without internal black light filter, with peak at 365 nm.

Without Black Light Filter

With Black Light Filter
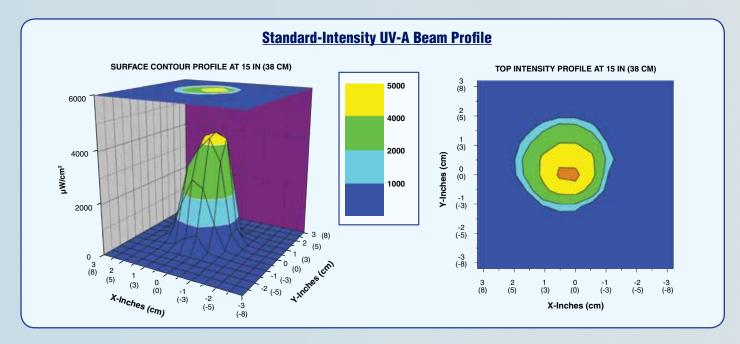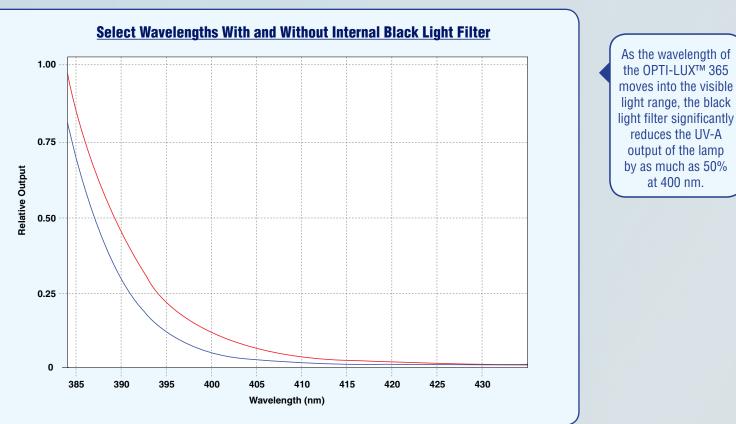
Two Standard-Intensity Models

OPTI-LUX™ 365 flashlights are also available in two standard-intensity models that are designed for inspection applications requiring limited UV-A output. The OLX-365FL is equipped with a clear filter, while the OLX-365BFL comes with an internal black light filter that reduces the output of wavelengths longer than 400 nm. These lamps also offer a larger coverage area compared to high-intensity models. Both versions provide a nominal steady-state UV-A intensity of 4,500 µW/cm² maximum at 15 inches (38 cm) to address aerospace industry concerns.

Standard-Intensity UV-A Beam Profile

SURFACE CONTOUR PROFILE AT 15 IN (38 CM)

TOP INTENSITY PROFILE AT 15 IN (38 CM)

Select Wavelengths With and Without Internal Black Light Filter

> As the wavelength of the OPTI-LUX™ 365 moves into the visible light range, the black light filter significantly reduces the UV-A output of the lamp by as much as 50% at 400 nm.

Specifications

Model	Nominal steady-state UV-A (365 nm) intensity at 15 inches (38 cm) [1]	Visible light measurement	Diameter of UV-A coverage area at 15 inches (38 cm)
OLX-365 High intensity, with clear filter	10,000 µW/cm^2	0.8 foot-candles (8.6 lux)	2 inch (5.0 cm)
OLX-365B High intensity, with internal black light filter	10,000 µW/cm^2	0.4 foot-candles (4.3 lux)	2 inch (5.0 cm)
OLX-365FL Standard intensity, with clear filter	4,500 µW/cm^2 maximum [2]	0.3 foot-candles (3.2 lux)	2.5 inch (6.3 cm)
OLX-365BFL Standard intensity, with internal black light filter	4,500 µW/cm^2 maximum [2]	0.2 foot-candles (2.1 lux)	2.5 inch (6.3 cm)

Light Source: UV-A LED
Lamp Style: Cordless flashlight
Lamp Head Diameter: 1.25 in (3.2 cm)
Length: 5.9 in (15 cm)
Weight (w/battery): 4.6 oz (130 g)
Power Requirement: One 3.7V 2200mA/Hr lithium-ion battery (rechargeable)
Run time: 4 hours (continuous)
Charge time: 4 hours (one or two batteries)
Charging cradle: Two-battery capability with AC and DC cord sets. AC cord available in 120V, 230V, 240V and 100V versions.

[1] All UV-A intensity readings taken with Spectroline® AccuMAX™ Series meter, and are factory set to the values shown
[2] To address aerospace industry concerns

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OPTI-LUX™ 365 flashlight with BF-365LX external black light filter accessory

OPTI-LUX™ 365 Series flashlights come complete with lanyard, belt holster, two rechargeable batteries, two-position smart charging cradle with AC power cord, DC cord set, UV-absorbing spectacles and padded carrying case.

Replacement Parts & Accessories

BF-365LX	External black light filter with rubber bumper
127568	Lithium-ion battery (rechargeable)
128217	Battery charging cradle with AC cord
128225	DC cord set
127574	Belt holster
UVS-30	UV-absorbing spectacles
CC-365	Carrying case