

# SPECTROLINE®

Easy On the  
Wallet!

## 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. Lightweight and compact, they reduce user fatigue while providing an extremely uniform beam profile that surpasses those of more expensive lamps. Available in four models to suit your specific NDT needs: high-intensity or standard-intensity versions, each with or without an internal black light filter.



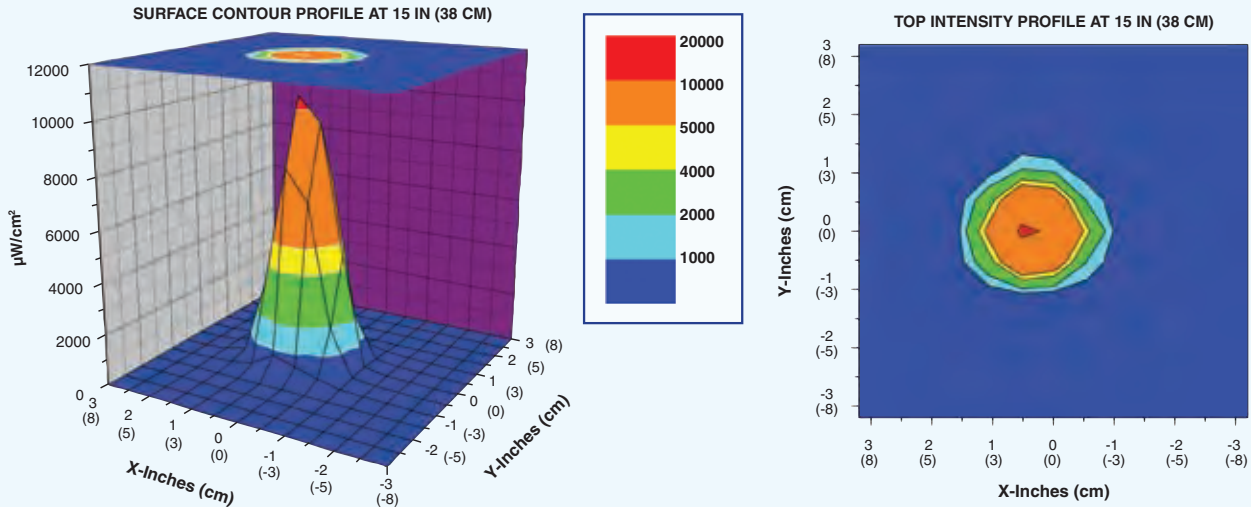
### FEATURES:

- Choice of nominal steady-state UV-A intensity of **10,000  $\mu\text{W}/\text{cm}^2$**  or maximum of **4,500  $\mu\text{W}/\text{cm}^2$**  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  $\mu\text{W}/\text{cm}^2$**
- Anodized aluminum lamp body minimizes corrosion and stands up to years of heavy use
- Instant-on operation; lamp reaches full intensity immediately!
- 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 both output and wavelength measurements

# Two High-Intensity Models

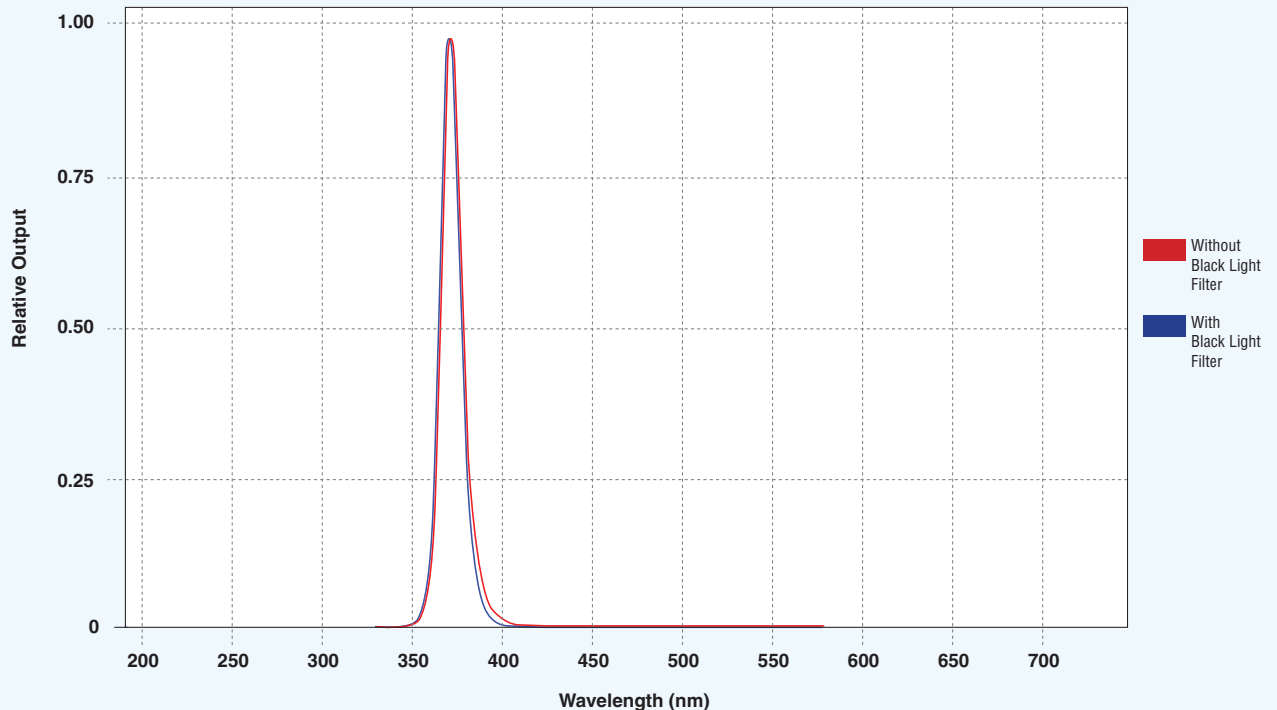
OPTI-LUX™ 365 Series flashlights are available in two high-intensity models that are designed for NDT inspection applications requiring high UV-A output. The OLX-365 is equipped with a clear filter, while the OLX-365B comes with an internal black light filter that reduces the output of wavelengths longer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

## High-Intensity UV-A Beam Profile



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

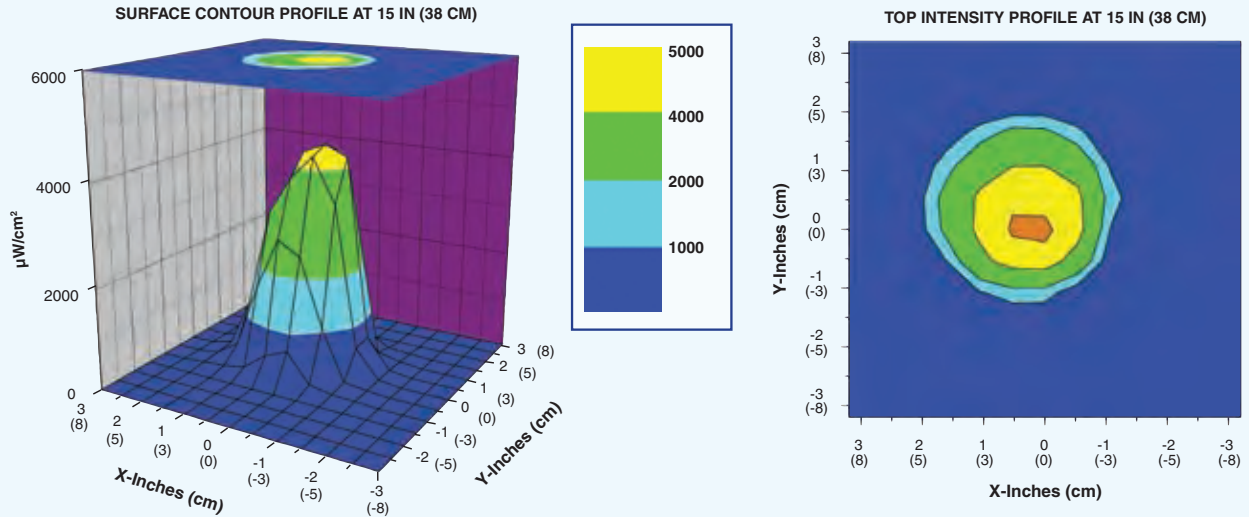
## Normalized UV Irradiance



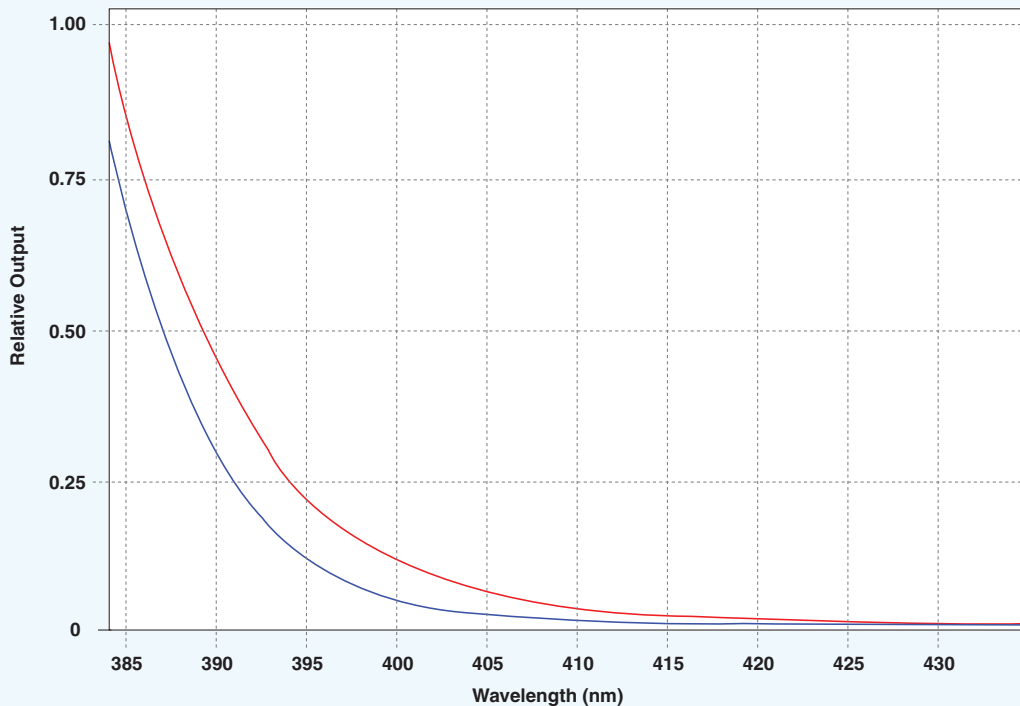
# Two Standard-Intensity Models

**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  $4,500 \mu\text{W}/\text{cm}^2$  maximum at 15 inches (38 cm) to address aerospace industry concerns.**

## Standard-Intensity UV-A Beam Profile



## 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.





**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, UV-absorbing spectacles and padded carrying case.

## 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)
<b>OLX-365</b> High intensity, with clear filter	10,000 $\mu\text{W}/\text{cm}^2$	0.8 foot-candles (8.6 lux)	2 inch (5.0 cm)
<b>OLX-365B</b> High intensity, with internal black light filter	10,000 $\mu\text{W}/\text{cm}^2$	0.4 foot-candles (4.3 lux)	2 inch (5.0 cm)
<b>OLX-365FL</b> Standard intensity, with clear filter	4,500 $\mu\text{W}/\text{cm}^2$ maximum ②	0.3 foot-candles (3.2 lux)	2.5 inch (6.3 cm)
<b>OLX-365BFL</b> Standard intensity, with internal black light filter	4,500 $\mu\text{W}/\text{cm}^2$ maximum ②	0.2 foot-candles (2.1 lux)	2.5 inch (6.3 cm)

<b>Light Source:</b>	UV-A LED
<b>Lamp Style:</b>	Cordless flashlight
<b>Lamp Head Diameter:</b>	1.25 in (3.2 cm)
<b>Length:</b>	5.9 in (15 cm)
<b>Weight (w/battery):</b>	4.6 oz (130 g)
<b>Power Requirement:</b>	One 3.7V 2200mA/Hr lithium-ion battery (rechargeable)
<b>Run time:</b>	4 hours (continuous)
<b>Charge time:</b>	5 hours
<b>Charging cradle:</b>	Two-battery capability with AC power 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



## Replacement Parts & Accessories

<b>BF-365LX</b>	External black light filter with rubber bumper
<b>127568</b>	Lithium-ion battery (rechargeable)
<b>127446</b>	Battery charging cradle with AC cord
<b>127574</b>	Belt holster
<b>UVS-30</b>	UV-absorbing spectacles
<b>CC-365</b>	Carrying case

