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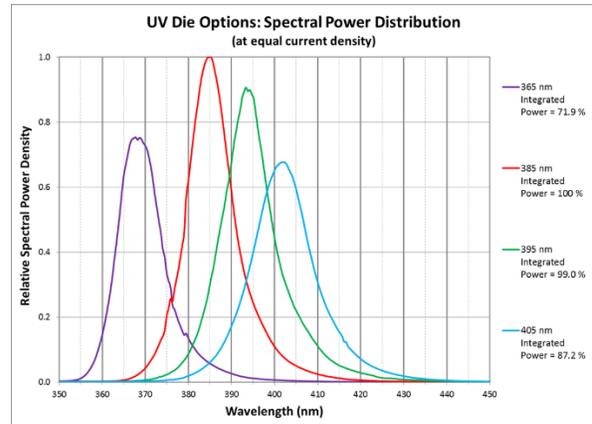
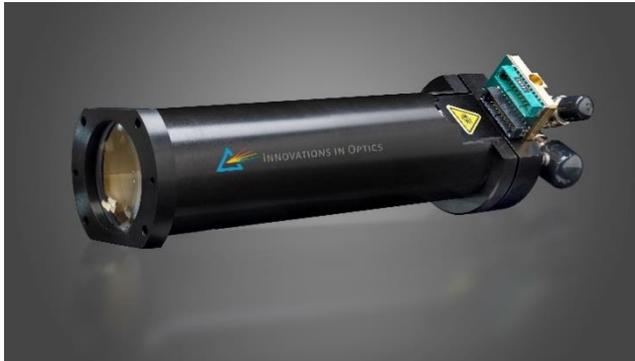
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## Innovations in Optics, Inc. Demonstrates High Intensity LED Illuminators as Replacements for Lamps used in High Volume Manufacturing

**Woburn, MA, November 30, 2021** - Innovations in Optics, Inc. has demonstrated LED illuminator technology that replaces mercury-xenon, tungsten-halogen, and low-pressure sodium arc lamps for high volume manufacturing.

IOI's LED solutions provide reliability and economic advantages over arc lamps in applications such as flat panel display inspection, wafer inspection, maskless lithography, endoscopy, and fluorescence microscopy. IOI's robust, patented designs enable superior power output and long lifetime with options for individual control of multiple wavelengths within one source.

Other advantages over arc lamps include mercury-free illumination, low-maintenance, and higher electrical efficiency with lower operating cost, and environmental safety with reduced CO<sub>2</sub> emissions.



### LumiDL™

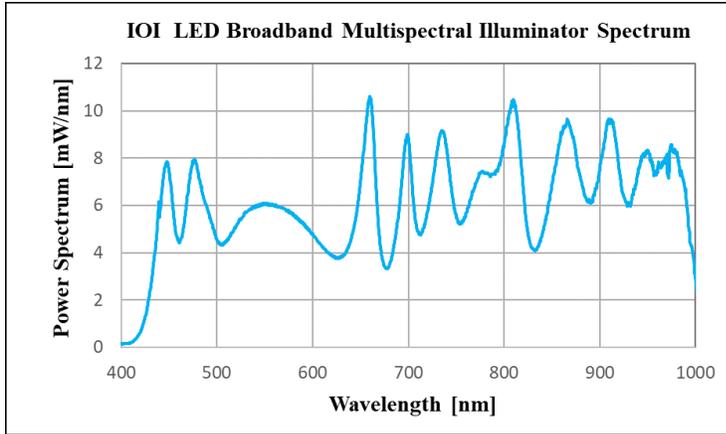
As a replacement for mercury arc lamps in industrial and semiconductor applications, LumiDL™ UV LED Illuminators have proven reliability with an install base of nearly 2000 units world-wide. Output flux > 30W is achievable with single and multispectral options.

### LumiDL™ Spectral Power Distribution

Multiple UV wavelengths, including 365nm, 385nm, 395nm & 405nm, are available and wavelengths may be mixed within one illuminator and individually controlled

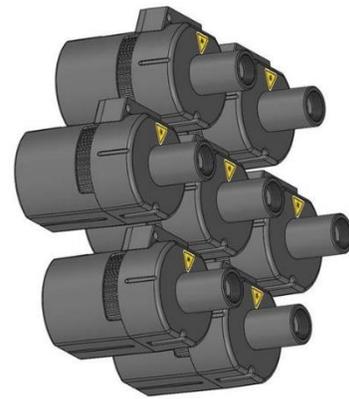
[Click here](#) to download LumiDL™ Data Sheet!

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**IOI's LED Broadband Multispectral Illuminator replaces tungsten-halogen lamps.** The LED wavelength distribution can be tailored to suit the application and controlled individually for longer lifetime.

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**The LumiBlaze™ high uniformity illuminator at 590nm** replaces low pressure sodium arc lamps for inspection applications.

With a hexagonal array of 7 LumiBlaze™ LED projectors, 1500 Lux over 1.85 x 1.85m is achievable. Uniformity of intensity of the coincident images would be expected to be in the range of 95% or better over the full field with special high-uniformity lens options.

[Click here](#) to download LumiBlaze™ Data Sheet!

**About Innovations in Optics, Inc.**

Founded in 1993 and located near Boston, Innovations in Optics, Inc. offers high power LED light sources for science and industry that provide maximum photon delivery, illumination uniformity, and stable optical power. With 55 international and U.S. patents, IOI products offer system-level advantages over lasers and arc lamps in OEM equipment for many applications. Available LED wavelengths range from the UV through the near-infrared, including broadband white and multispectral options. IOI light engines are used as excitation sources in fluorescent imaging for life science applications, and they support photomask exposure, direct image writing, 3D printing, and photocuring. Extreme brightness LED projectors enable 3D machine vision. Fiber-coupled light engines provide superior light delivery for industrial borescopes, medical endoscopes, microscopes, and UV spot curing.