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High Power, UV LED Light Engines for Fluorescence Imaging, UV Curing and 3D Printing

Woburn, MA, December 10, 2013—Innovations in Optics, Inc. introduces a full product line of *LumiBright UV LE*™ Ultraviolet LED light engines. The versatile and powerful solid-state sources are ideal for UV applications in life science, medical and industrial equipment.

The benefits of UV LEDs as compared to traditional mercury arc UV lamps are numerous and significant. UV LEDs are more energy efficient, smaller in size and operate with consistent emission for very long lifetimes leading to low maintenance. UV LEDs are instant-on where mercury lamps need minutes to warm up. They are more environmentally friendly by being mercury-free, and they generate no ozone and emit no harmful "deep UV" radiation. UV LEDs are a cool source compared to arc lamps, largely from having no infrared emission. Reduced heat simplifies system cooling mechanisms and preserves materials under irradiation.

LumiBright UV LE™ LED light engines are ideal for OEM equipment. Specific applications include epi-illumination for fluorescence imaging in life science instrumentation such as gel & blot imagers, colony counters, and microplate readers. Medical applications include fluorescence-guided surgery and phototherapy. Industrial applications include imaging for fluorescent dye penetrant inspection or UV machine vision, and photopolymerization for 3D printing or UV curing.

LumiBright UV LE™ LED light engines feature patented non-imaging optics as well as high brightness LED arrays with single or multi-wavelength options available in spectral distribution ranging from 365 nm thru 405 nm. The light engines can be operated from

less than 1 Watt up to over 200 Watts. Small footprint allows easy integration into OEM or end-user systems configured for table-top, rack mounted or portable handheld devices. Fiber coupled models are available that accept fiber active core diameters from 1 mm up to 8 mm. Light engine system accessories include thermal management devices, wire harnesses, and driver/controllers.

Innovations in Optics, Inc. (IOI), founded in 1993 and located near Boston, is widely recognized as a leading innovator in the areas of high brightness LED chip-on-board (COB) products and illumination engineering and technology. Leveraging a unique, multidisciplinary approach to systems design, the company pushes the technology envelope to develop industry-leading ultra-high brightness LED products. IOI light engines and illumination systems feature patented and patent-pending optics which collect, direct and maximize output efficiency and uniformity, enabling some of today's most revolutionary solutions in cutting-edge technical applications for LED light sources.