

For Immediate Release



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For Immediate Release Innovations in Optics, Inc. Launches Revolutionary LED Solar Simulator

Woburn, MA, August 13, 2024 — Innovations in Optics, Inc. (IOI) proudly announces the launch of the LumiSun-50™ (patent pending). This innovative, compact benchtop LED solar simulator is designed to meet the rigorous standards of IEC Class A+A+A+ compliance. This cutting-edge product is set to revolutionize research labs and industries with its superior performance, versatility, and user-friendly features.



The LumiSun-50 solar simulator boasts an array of impressive features that set it apart from traditional, bulky, and expensive lamp-based units. With a spectral range of 350-1250nm and the capability to adjust irradiance from 0.1 to 1.2 Suns, the LumiSun-50 ensures precise and reliable simulation of solar light for various applications.

Key Features:

IEC Class A+A+A+ Compliance: Meets spectral match, non-uniformity of irradiance, and temporal stability standards.

Compact and Low-Cost Design: Ideal for benchtop use, making it accessible and efficient for research labs.

Long LED Lifetime: With over 20,000 hours of LED life, the LumiSun-50 promises longevity and reliability.

Highly Uniform Area: Provides 50 x 50mm of highly uniform illumination, perfect for PV cell testing and other precise applications.

User-Friendly Operation: Equipped with an advanced GUI and remote digital control via RS485 & USB connections.

Superior Spectral Intensity Stability: Thanks to thermoelectric cooling, the LumiSun-50 offers unmatched stability.

Applications for the LumiSun-50 are vast, ranging from PV cell testing and research, photochemistry, biological studies, phototherapy and photodynamic therapy research, to materials testing, weathering tests, and more. Its ability to provide A+A+A+ illumination over a defined area makes it an invaluable tool for measuring the efficiency and spectral response of PV cells, conducting solar degradation studies, and other sunlight-related research.

IOI's patented light collection optics and thermal management ensure superior temporal stability and uniformity, not only for the entire spectrum but also for individual wavelengths. The integrated laser pointers simplify alignment, enhancing ease of use and precision in research settings.

Unlike environmentally unfriendly lamp-based units, the LumiSun-50 employs a multi-wavelength

array of long-lifetime LEDs, independently driven and user-controlled to set spectra. This innovative approach offers significant advantages in terms of sustainability, cost-efficiency, and operational flexibility.

"The launch of the LumiSun-50 marks a significant milestone for Innovations in Optics, Inc.," said Thomas Brukilacchio, CEO and President of IOI. "We are excited to offer a compact, high-performance solar simulator that meets the stringent requirements of modern research and industrial applications. The LumiSun-50 embodies our commitment to innovation, quality, and sustainability."

For more information about the LumiSun-50 and the OEM version, please visit our [website](#) or contact IOI's Director of Sales and Marketing, John Pepper.

[Data Sheet](#)

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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 over 70 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 NIR, 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.

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