



Luminus' New IR LEDs Set New Output Benchmark Enabling a Practical Alternative to Lasers in Life Sciences and Industrial Markets

SUNNYVALE, Calif., April 6, 2021, [Luminus Devices](#) has expanded its portfolio of ultra-high-power infrared (IR) LEDs with a new product line that addresses the rapid expansion of life sciences, medical, machine vision, and industrial applications. The Luminus CBM-90-IRD LEDs come in three peak wavelengths – 780nm, 850nm, and 940nm – and deliver unmatched radiometric power in a compact package platform that is well-suited for fiber-coupled applications.

These newly-introduced IR products are based on dual-junction technology. They are specifically designed to compete against laser diode and VCSEL technologies with the advantages of being eye-safe, less expensive, and easily integrated into an optical light engine. Depending on the drive condition and peak wavelength, these LEDs can deliver over 15W of radiometric power under CW (100% duty cycle) conditions or 40W under pulsed conditions.

In addition to traditional industrial and machine vision markets, these LEDs can also be used as light sources in medical and life science applications. The 780nm version can be used to excite near-infrared (NIR) biomarkers such as

Indocyanine Green (ICG), which are widely used in fluorescence imaging markets. “Our CBM-90-IRD-780nm LED product delivers 10+W of radiometric power that can be efficiently coupled in 5 to 7mm optical fiber bundles used in endoscopy and infrared light engines,” said Yves Bertic, Senior Director of Global Product Marketing. “With the growing demand for light sources capable of exciting the new biomarkers that are continuously being developed, this product line is the perfect alternative to legacy laser-based light sources.”

The CBM-90-IRD product line complements Luminus extensive CBT/CFT-90 LED series that span UV-A and visible ranges. The copper chip-on-board package includes high precision optical alignment features, handles very high currents and offers an extremely low thermal resistance.

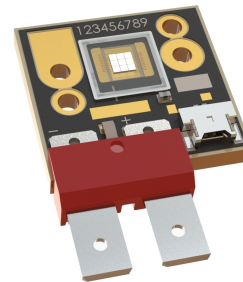
For a full list of features, applications and benefits visit <https://www.luminus.com/products/ir>. This product line is available at both [Digikey](#) and [Mouser](#).

About Luminus Devices, Inc.

Luminus, Inc. develops and markets solid-state lighting solutions (SSL) to help its customers migrate from conventional lamp technologies to long-life and energy-efficient LED illumination. Combining technology originated from the Massachusetts Institute of Technology (MIT) with innovation from Silicon Valley, Luminus offers a comprehensive range of LED solutions for global lighting markets as well as high-output specialty lighting solutions for performance-driven markets including consumer displays, entertainment lighting and medical applications. Luminus is headquartered in Sunnyvale, California. For additional information please visit <http://www.luminus.com>.

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Version	PeakW (typ)	Centroid W (typ)	Typ Output 13.5A	Typ Vf @ 13.5A	FWHM (typ)
IRD-780	780 nm	776 nm	8-11 W	3.5 V	30 nm
IRD-850	855nm	850 nm	13-15 W	3.7 V	35 nm
IRD-940	950 nm	940 nm	11-13 W	3.6 V	45 nm