



Luminus adds 11 high intensity IR LEDs

40° to 130° viewing angle options open the door to emerging applications

SUNNYVALE, Calif., April 24, 2019, [Luminus Devices](#) has significantly expanded its portfolio of high-power infrared (IR) LEDs with eleven emitters designed to address the rapid expansion of automotive, consumer, machine vision, medical, and security applications. The Luminus IR SST LEDs are now offered in three wavelengths – 810nm, 850nm, and 940nm – and six beam angle options ranging from 40° to 130°. The high radiometric power output and low thermal resistance allow system designers to reduce the number of emitters and overall footprint for a broad range of infrared applications.

Nine of the newly-introduced IR products are based on dual-junction technology which nearly doubles the power density and keeps efficiency virtually unchanged. This makes it easier to develop solutions with much higher radiant intensity and more compact designs. The [IR SST product line](#) delivers very high radiometric power, up to 1600 mW typical at 850 nm and 1 A drive current, and radiant intensity in excess of 1300 mW/sr.

“Our dual-junction technology allows us to double the power density in the same footprint,” said Yves Bertic, Senior Director of Global Product Marketing. “Now product designers can address applications that need longer reach and more intense and focused beams.”

The advanced optical range is designed to support the increasing variety of infrared applications. The small, 40°, beam angle is the perfect replacement for legacy 2mm to 5mm through-hole IR LEDs, and the broadest beam angle, 130°, is ideal for flood illumination that is more common in security applications.

Whether for biometric applications or monitoring for security, this latest generation of IR LEDs supports ongoing industry development and reduces time to market.

The IR SST products are industry standard 3535 surface-mount packages with low thermal resistance and are easy drop-in replacements. All Luminus IR SST emitters are rated as "Risk-Free" for eye safety according to the IEC Photo-biological Test (IEC/EN 62471 standard).

Full specifications and additional information are available by [clicking here](#).



Typical Radiometric Power @1A by wavelength and beam size.

	810nm	850nm	940nm
40°		800mw*	
50°		1500mw	1470mw
70°		800mw*	
80°	1300mw		
90°	1470mw	1500mw	1470mw
130°	1470mw	1600mw	1470mw

*denotes single junction LED



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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