

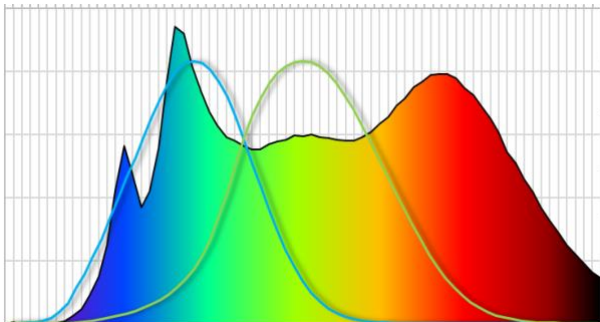


Luminus Specifies Melanopic / Photopic Ratios (MRs) for New Human Centric Lighting LEDs

Salud™ LEDs suppress melatonin and deliver warm, comfortable illumination

SUNNYVALE, Calif., October 28, 2019, [Luminus Devices](#) expands its illumination portfolio today with the introduction of the Salud line of 3030 mid-power LEDs. [Salud LEDs](#) are the first with datasheet specified melanopic ratios (MRs) in addition to CRI, R9, CCT, and Flux. By enhancing the spectrum with cyan for melatonin suppression and enriching the 660nm emission for natural skin tones and excellent red-rendering, Luminus Salud LEDs can deliver warmer, more comfortable light that keeps people healthy, alert, and productive.

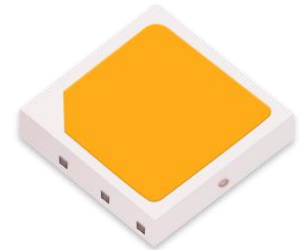
Luminus Salud Technology Fills the Cyan Gap and Enhances 660 nm Red



Scientists studying human circadian rhythm and the physiological reaction to light have determined that low MRs are a signal to the body to prepare for sleep, and higher MRs tell the body to be more alert. Standard warm CCT LEDs (3000K to 4000K) commonly used across the lighting industry have low MRs, which can reduce alertness and productivity. Cool CCTs have high MRs and people are generally awake and alert in this light. However, in offices and other public spaces, such cool CCTs are considered too “blue” and typically not desirable. Salud bridges the gap with warm CCTs *and* high MRs for healthy, productive, and

comfortable environments. Salud LEDs and datasheets are immediately available. Visit Luminus at the Hong Kong International Lighting Fair, Hall of Aurora, stand 1B-B28, Oct. 27-30 to learn more.

Salud mid-power LEDs for Human Centric Lighting				
Nominal CCT	Typical MR	Minimum CRI	Typical R9	Typical Flux
3000K	0.68	90	95	33
3500K	0.72	90	75	36
4000K	0.80	90	65	38
5000K	0.96	90	85	38



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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