



## Luminus' Spectrally Tuned LED Light Sources Create New Market Opportunities

*Spectrally tuned sources are the essential components of human-centric lighting*

SUNNYVALE, Calif., May 30, 2018 [Luminus Devices, Inc.](#) has released its third proprietary spectral technology, [PerfectWhite™](#), which closely replicates the visual characteristics of halogen lamps (3000K). When compared to halogen, PerfectWhite was preferred by lighting designers in testing at both Light + Building and Lightfair. Though the spectrums are a virtual match – Luminus filled the cyan gap – PerfectWhite's color point is slightly below the black body locus and as a result, there's no green/yellow tint that is common to halogen. A better halogen has long been a wish of the lighting design community and PerfectWhite delivers without infra-red, without green/yellow tint, and without ultraviolet radiation.

“The spectral characteristics of light from a halogen lamp are what make it so appealing, particularly in hospitality and museum applications,” said Tom Jory, VP of Illumination at Luminus. “Unlike other full spectrum LEDs that emit harmful near-UV radiation, PerfectWhite delivers the visual effect of a halogen lamp by filling the cyan gap that exists in traditional LED technology.”

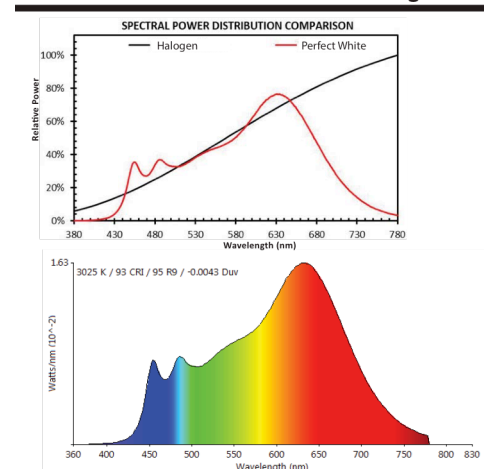
Luminus' portfolio of unique LED spectrums also includes [AccuWhite™](#) and [Sensus™](#) spectral technologies, that can be applied to virtually any of the company's COB LEDs.

AccuWhite is spectrally engineered to maximize CRI performance, and it delivers the company's highest color rendering products with a guaranteed CRI minimum of 95 and a typical CRI of 98. Lighting designers and visual display managers continue to seek the very highest CRI and TM-30-15 ratings for the most demanding interior lighting applications. AccuWhite LEDs offer TM-30-15 values as high as 95 for  $R_f$  (fidelity) and 100 for  $R_g$  (gamut), while still achieving as high as 125 lumens per watt efficacy at a case temperature of 85°C.

Sensus™ spectral technology addresses demands in retail shops to inspire shoppers with light that creates more dramatic, vibrant and exciting environments where whites are whiter, and saturated colors like blue and red are richer and more vibrant. Sensus' engineered spectrums in 3000K and 3500K produce a large gamut area index (GAI  $BB_{15}$  as high as 120) and chromaticity below the black body curve, thus allowing people to see pure, bright whites and deeper colors with greater contrast. While other LEDs might also produce pure whites, Luminus' Sensus achieves this without sacrificing efficacy, as demonstrated with up to 148 lumens per watt at 85°C.

“Our three spectral technologies serve as the foundation for additional spectral tuning that is specifically targeted at human centric lighting,” said Jory. “Though there's much still to be discovered, we are already working with industry partners to provide light that serves dual purposes of illuminating beautifully so people can see well and being healthy for people so they also feel great.”

Luminus Perfect White vs. Halogen



Complete information about PerfectWhite can be found [here](#).



### **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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