

Show preview press release

Lightfair, June 3-5, Las Vegas

LED Engin: Booth 8008



LED Engin to unveil groundbreaking white light tunability: LuxiTune Generation 3.0 2200 lumen light engine dims to 0.5%

San Jose, CA, USA: June 2, 2014: [LED Engin, Inc.](http://www.ledengin.com), a leader in high flux density LED products, will demonstrate its Generation 3.0, award-winning* tunable white light engine at Lightfair (Booth 8008). LuxiTune Generation 3.0 features a 2200 lumen emitter, equivalent to a 120W halogen lamp, that delivers smooth halogen-style dimming from 1600K to 3000K and Correlated Color Temperature (CCT) tuning between 2100K and 4300K. Both tuning curves track the black body curve closely and light intensity (flux) is adjustable from 100% to less than 0.5%, giving lighting designers unprecedented creative freedom. With the complementary secondary optic, luminous efficacy is an industry-leading 63 lumens/W at steady-state temperature and Color Rendering Index (CRI) is 90 at full intensity, being maintained at an average of 85 as the LED is dimmed.

The light engine is DALI and DMX compatible, and delivers flicker-free operation with industry-standard analog 0-10V dimmers. Self-learning mode eliminates known issues in installations with multiple lamps on one dimmer due to varying voltage drops on long and short cables. DMX control can be used to switch between CCT tune and halogen dim modes.

LuxiTune uses a compact, single emitter to deliver warm, soft tones of dimmed light. It maintains color quality and consistency within 3 Standard Deviation Color Matching (SDCM) throughout the dimming range. The multi-channel emitter platform results in more vibrant colors without some of the hue changes experienced with simpler two-color systems. Smart feedback control ensures flux and color stability over the life of the product and eliminates the known effects of varying light output over temperature and time from different color dies. Furthermore, there are no perceptible flickering effects in the 100Hz to 200Hz range.

84mm diameter secondary optics are available in 24°, 34° and 45° beam angles and support the development of compact lighting fixtures.

LuxiTune 3.0 features a driver board separated from the LED MCPCB allows the driver board to be mounted remotely, a particularly useful feature in recessed metal box downlights. A separate emitter is also easier to integrate into swivel features and heat from the driver board does not increase the temperature of the LED, so reliability and operating life are improved.

An 1100 lumen version of the latest LuxiTune, equivalent to a 60W halogen lamp, is also offered.

LuxiTune Generation 3.0 is sampling to key customers now, with volume production ramping in the third quarter of 2014.

For more information about LuxiTune, please visit:

www.ledengin.com/products/luxitune

Editors' note:

*On May 6, LED Engin's LuxiTune was named best innovation in the solid-state lighting category by leading North American electronics publisher ECN. The 2014 ECN Impact Awards recognize excellence and groundbreaking innovation in design engineering. Earlier this year, LuxiTune was crowned Best Light Source at the 2014 Lighting Design Awards and Best New Component at Source Level, a special citation in the 4th annual Architectural SSL Product Innovation Awards (PIAs). LuxiTune is also a winner in the Modules and Light Sources category. This success follows the product being recognized as Solid-State Lighting Product of the Year at the Elektra Awards, Europe's flagship electronics industry awards competition.

About LED Engin, Inc.

LED Engin, based in California's Silicon Valley, specializes in ultra-bright, ultra-compact solid state lighting solutions that allow designers and engineers the freedom to create uncompromised yet energy efficient lighting experiences. The company's LuxiGen™ Platform - an emitter and lens combination or integrated module, delivers superior flexibility in light output, ranging from 3W to 90W, a wide spectrum of available colors, including whites, multi-color and UV, and the ability to deliver upwards of 5,000 high quality lumens to a target. The small size combined with powerful output allows for a previously unobtainable freedom of design wherever high flux density, directional light is required.

LED Engin products are sold directly through LED Engin sales channels and its distributors. They are available for immediate sampling. For additional information, or to find a sales representative, please visit: www.LEDEngin.com.