

World's first 7-color high power emitter from LED Engin enables rich, punchy stage lighting that creates a full spectrum experience

7-colors on a single emitter that delivers powerful, intense, saturated colors

San Jose, CA, USA – xx March 2016: [LED Engin, Inc.](#) announces the world's first 7-color, high power LED to be produced on a single emitter. The compact LZ7-04MU00 emitter enables the design of stage or architectural lighting that produces sophisticated effects over the full color spectrum. Its RGBW die are complemented by phosphor-converted (PC) amber, cyan and violet to provide richer, wide-ranging color effects. PC amber delivers the same saturation as regular amber but with 5 times the flux at temperature, cyan fills the spectrum gap between blue and green, and violet enables black or crisp white lighting effects. Typical stage and studio applications include moving heads with zoom optics and round wash lights. In architectural lighting, the emitters enhance the performance of everything from static lights to linear wash lights.

The flat lens LZ7 emitter, which has a 7mm x 7mm footprint, comprises 7 individually addressable die assembled onto a 3.8mm light emitting surface and capped with a low profile glass lens. This ultra-thin construction means that mixing rods can be positioned as near as possible to the die to maximize coupling efficiency

LED Engin's proprietary multi-layer, multi-channel substrate technology underpins the performance of the LZ7. The substrate's thermal resistance is only 1.4°C/W and it dissipates up to 20W effectively. RGBW individual dies can therefore be driven, one at a time, to a maximum current of 1.5A. Alternatively, a single amber, cyan or violet die can be driven at up to 1A. In a third operating mode, all dies can be driven simultaneously at 850mA.

LED Engin CEO, David Tahmassebi, said, "There is growing demand for stage lighting that's capable of creating ever more dazzling and complex effects. Our latest 7-color technology breakthrough means that fixture designers can deliver these without suffering the design complexity experienced when using multiple single-die LEDs."

LZ7-04MU00 emitters and LZ7-N4MU00 MCPCB mounted versions are available now from LED Engin and its distributors. Download a datasheet here:

<http://www.ledengin.com/files/products/LZ7/LZ7-04MU00.pdf>

Mixing rods designed for LZ7 emitters are available from [Fraen](#) and [Auer Lighting](#).

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.