Press Information

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Philips Lumileds Ramps Up Efficacy and Flux in Latest High-Power LED

In Philips Lumileds LUXEON Q, high flux and high efficacy are achieved in a standard 3535 surface-mount package

San Jose, CA – The new LUXEON Q from Philips Lumileds delivers superior performance in a high-power emitter that serves as a direct drop-in replacement for products that use the standard 3535 surface mount package. LUXEON Q is the first high-power LED based on LUXEON Flip Chip die, Philips Lumileds high performance Chip Scale Package (CSP) device architecture.

Efficacy for the LUXEON Q emitter is 135 lm/W at 5700K 70 CRI and 115 lm/W at 3000K 80 CRI (@85˚C and 350 mA). Kathleen Hartnett, Product Line Director for LUXEON Emitters notes, “Our LED is especially competitive when it’s driven harder. For instance, at 1 Ampere, a flux of more than 300 lm at an efficacy of 102 lm/W at 85˚C is achieved in neutral white at 4000K. The high efficacy at high drive current of the LUXEON Q emitter is achieved as a result of the industry leading wall plug and conversion efficiency of Philips Lumileds next-generation CSP architecture.”

The LUXEON Q takes advantage of a fully developed ecosystem for 3535 components, including a wide range of optics, to speed the time-to-market for omnidirectional indoor and outdoor luminaires. Applications include high bay and low bay luminaires, downlights, outdoor wall packs, replacement lamps and specialty luminaires. “Customers are starting with a familiar LED package and can quickly build their products from there using readily available optics and other compatible components,” says Hartnett.

The LUXEON Q emitter line is available in CCTs of 2700K, 3000K, and 3500K at 80 CRI and CCTs of 4000K and 5700K at 70 CRI.

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