Philips Lumileds Delivers Workhorse Mid-Power LED with Hot Color Targeting and New 1/9th Micro Color Binning

The new LUXEON 3030 2D LED for high flux luminaires is being delivered with hot color targeting to ensure ANSI compliance at application conditions.

San Jose, CA – Philips Lumileds is introducing the industry’s first and only mid-power LED with hot color targeting, which ensures performance within ANSI specifications at real-life operating temperatures. The LUXEON 3030 2D is destined to become a workhorse LED for high flux applications such as retrofit bulbs, downlights, as well as high bay and low bay luminaires.

“Without hot color targeting, if a user purchases an LED that was performing on a bin edge at room temperature, it would likely shift out of the specification at application temperatures and cause an undesirable shift in color for the fixture,” said Mark Chang, Senior Product Line Manager of Mid-Power Products. Hot color targeting remedies this problem by targeting slightly above the black body locus at room temperature. At application conditions, the color temperature remains within ANSI specifications.

The LUXEON 3030 2D release is also being introduced with a new 1/9th micro color binning structure. Customers now have the ability to accurately select 3 or 5-step MacAdam Ellipse for optimal color control. “Designers can also easily pair different bins to hit a 3/4/5 SDCM color point,” said Chang.

The LUXEON 3030 2D LED utilizes an epoxy molding compound (EMC) QFN package for exceptional reliability and excellent lumen maintenance. Typical warm white (2700K) performance is 87 lm at 80 CRI at 120 mA. Cool white efficacy reaches 133 lm/W at 80 CRI and 120 mA. When driven at the maximum drive current of 240 mA, the LUXEON 3030 2D can deliver 160 lm at 6500K and 80 CRI.

Chang commented on the LUXEON 3030 2D performance boost relative to its predecessor. “Depending on CCT, the lumen output of the LUXEON 3030 2D is 10-15 percent higher than previous generation 2-die mid-power emitters,” he said.

For more information the product, visit www.philipslumileds.com/LUXEON30302D.

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