Press Information

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Philips Lumileds New High-Flux Emitters Transform Directional Luminaires

The LUXEON TX LED combines the highest luminous flux with extreme efficacy—
a feature mix formerly reserved for premium luminaires

San Jose, CA – Today Philips Lumileds introduces LUXEON TX emitters. This next
generation of high-power emitters delivers the highest luminous flux available, with
maximum efficacy, for a variety of directional and omnidirectional lighting applications.
“These emitters are truly transformative in that they enable customers to achieve
performance metrics -- such as a true 50W equivalent MR16 lamp at 2700K that meets
ERP/DIM2 requirements -- which LEDs simply could not meet previously,” said Kathleen
Hartnett, Product Line Director at Philips Lumileds.

“We use the term ‘extreme efficacy’ because of the remarkable performance customers
can expect from these emitters,” said Hartnett. “For instance, outdoor fixture
manufacturers who need 4000K at 70 CRI are taking advantage of the LUXEON TX 360
lm output @1.0A and 85˚C to decrease overall system cost, but have the ability to drive
the same part @350mA to deliver 155 lm/W LED efficacy and enable streetlights with a
system efficacy of more than 120lm/W.”

The LUXEON TX platform is available in a range of CCTs and CRIs to satisfy the most
exacting requirements of downlights, high bay and low bay lighting, indoor area lighting,
outdoor lighting and replacement lamps. In addition, for improved design flexibility,
Philips Lumileds has added a minimum 85 CRI option so designers can further
differentiate their product lines

“Designers have typically had to choose between the lower efficacy associated with a 90
CRI LED or the poorer color rendering associated with an 80 CRI LED. Now LUXEON
TX 85 CRI emitters bridge that gap by providing high CRI with increased efficacy in a full
CCT range from 2700K to 5000K.”

For applications that require a minimum 90 CRI, LUXEON TX delivers up to 100 lm/W
warm white light (3000K CCT, 90 CRI and 700 mA at 85˚C).This level of efficacy at 90
CRI enables superior performance for luminaires that must adhere to increasingly
stringent lighting standards such as the CEC’s California Quality LED Lamp
Specification.

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