Philips Lumileds Doubles Lumen Density and Center Beam Candle Power with Newest Emitter

Designers of outdoor and industrial luminaires, spotlights and other directional retrofit bulbs can now dramatically boost the LED punch delivered while also reducing beam angles by transitioning to Philips Lumileds LUXEON MZ.

San Jose, CA – Philips Lumileds newest high-power emitter, the LUXEON MZ, enables customers to create tighter beam angles with higher lumen density at a lower cost than was previously possible. The LUXEON MZ emitter delivers excellent optical control in a 600-1000 lm package. Outdoor, industrial and area lamps as well as spotlights and downlights benefit from the faster qualification and time to market with the LUXEON MZ due to its design compatibility with the proven LUXEON M emitter.

“With the LUXEON MZ in combination with LUXEON M, designers can create two solutions with one optic and one PCB, thereby lowering overall costs. Our customers are already designing platforms with LUXEON M and LUXEON MZ to create multiple SKUs using less engineering resources,” explained Senior Vice President, Emmanuel Dieppedalle.

In an MR16 the LUXEON MZ delivers greater punch, achieving 50,000 candela center beam candle power (CBCP) compared to encapsulated emitters that only achieve half the beam intensity using the same sized optics. Flood lamps that formerly required large optics now deliver the necessary brightness and range with smaller optics and off-the-shelf drivers.

The LUXEON MZ features an industry leading forward voltage of 11.2V, a small light emitting surface of 4.2 mm diameter, and an undomed design to deliver smaller beam angles. Philips Lumileds is offering the emitter family across the full range of CCT and CRI (70, 80, 90) and CCT (2700-6500K) options.
For further information, please contact:
Kevin Lucido
Director of Global Marketing Communications
Philips Lumileds Lighting
+1 650 576 3864
Kevin.Lucido@philips.com

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