

# XLamp LED Performance Breakthrough Delivers High Efficacy

Cree announces the addition of 80, 85 and 90 color rendering index (CRI) options to its XLamp XP-G and XP-E warm white LEDs. Many lighting applications, such as retail, medical and architectural, require high color accuracy to properly render object colors.

With previous generation high-CRI white LEDs, increasing color quality meant decreasing efficacy. Thanks to the new high-CRI XP-G and XP-E, luminaire and fixture designers can have both.

"High CRI is a must for certain applications that requires a high quality of the light--but at the same time we cannot forget about the system efficacy," said Massimo Santinon, brand manager i-Led, Linea Light s.r.l. "The new XLamp XP-E and XP-G with high CRI are the perfect combination we were waiting for that will allow us to address new markets."

"Lighting applications require specific performance characteristics, and Cree's XLamp LED family delivers products optimized for these individual applications," said Paul Thieken, Cree director of marketing, LED components. "Our high CRI XLamp LEDs can deliver light quality comparable to halogen with better efficacy than fluorescents. And Cree's lighting-class LEDs are proven to be one of the world's most efficient light sources which can enable more economical designs and applications."

The new high-CRI XP-G is available with luminous flux of up to 107 lumens at 350mA in warm white (3000K), providing efficacy of 102 lumens per Watt. Using this new XP-G, LED lamp designers can create systems that are 70 percent more efficient than a traditional halogen PAR38 lamp and deliver similar high color rendering.

High-CRI XP-G and XP-E LEDs are similar to standard XP-G and XP-E LEDs, respectively, and may work in existing systems without any redesign. Just as with the standard XP-G and XP-E, the new LEDs have LM-80 data approved by ENERGY STAR®, are UL-recognized components under UL 8750 (E326295), and feature excellent thermal management properties.

High-CRI XP-G and XP-E LEDs are available now in sample and production quantities with standard lead times. To locate a distributor, please visit [www.cree.com/buyxlamp](http://www.cree.com/buyxlamp) [1].

### About Cree

Cree is leading the LED lighting revolution and setting the stage to obsolete the incandescent light bulb through the use of energy-efficient, environmentally friendly

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LED lighting. Cree is a market-leading innovator of lighting-class LEDs, LED lighting, and semiconductor solutions for wireless and power applications.

Cree's product families include LED fixtures and bulbs, blue and green LED chips, high-brightness LEDs, lighting-class power LEDs, power-switching devices and radio-frequency/wireless devices. Cree solutions are driving improvements in applications such as general illumination, backlighting, electronic signs and signals, variable-speed motors, and wireless communications.

For additional product and company information, please refer to [www.cree.com](http://www.cree.com) [2]. To learn more about the LED Lighting Revolution, please visit [www.creeledrevolution.com](http://www.creeledrevolution.com) [3]

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