NEWS RELEASE

Cree LED Introduces XLamp X21 Multi-Color LEDs, A New Platform for Smaller, Lighter, and More Impactful Lighting Designs

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DURHAM, N.C.--(BUSINESS WIRE)-- **Cree LED**®, a **Penguin Solutions** brand (Nasdaq: **PENG**), today announced the launch of XLamp® X21 Multi-Color LEDs, a new 4-color LED platform innovation that combines an ultra-compact footprint, exceptional optical performance, and extensive color flexibility to help lighting manufacturers create smaller, lighter, and more impactful lighting products.

Cree LED XLamp X21 Multi-Color LEDs

Leveraging Cree LED's latest multi-color LED technology, XLamp X21 Multi-Color LEDs feature four different colors of LED die placed close together in a compact 2.1 x 2.1 mm ceramic package, making them the smallest ceramic multi-color LEDs in Cree LED's portfolio. The smaller optical source enables lighting manufacturers to reduce luminaire size and weight while maintaining the beam quality and visual performance demands of indoor directional, architectural, entertainment, automotive, and specialty lighting applications.

Designed with an optimized optical profile, the X21's compact source size also enables smaller, lighter and lower-cost secondary optics while achieving intense, tightly controlled beams. Cree LED testing shows that relative to the larger XLamp XP-L Color LED paired with a 45 mm color-mixing optic, the new X21 LED with a 38 mm color-mixing optic (29% smaller area) delivers improved optical performance, including a tighter beam angle, higher candela/lumen conversion and superior color mixing.

"The XLamp X21 platform represents a significant step forward in compact multi-color LED technology," said Joe Clark, President of Cree LED. "By bringing strong optical performance and broad color flexibility into a smaller package, we're giving manufacturers new options to create visually distinctive lighting designs. The XLamp X21

Multi-Color LED platform reflects our continued investment in industry-leading solutions that set the standard for reliability, optical quality, and ease of integration."

XLamp X21 Multi-Color LEDs offer the broadest range of color combinations in Cree LED's multi-color portfolio, supporting eleven different LED die colors across fourteen product configurations. This flexibility enables lighting designers to optimize color quality, visual impact, and system design for a wide range of applications.

Samples of X21 LEDs are available now and production quantities are available with standard lead times. To see the full color portfolio and to learn more about X21 LEDs, visit: **https://www.cree-led.com/news/xlamp-x21-multi-color-leds/**

Cree LED is a registered trademark of CreeLED, Inc. All other trademarks and registered trademarks are the properties of their respective owners.

About Cree LED

Cree LED, a Penguin Solutions brand, offers one of the industry's broadest portfolios of application optimized LED chips and components, leading the industry in performance and reliability. With more than 35 years of innovation, our strong IP portfolio and unique business model are designed to support supply chain continuity. We deliver best-in-class technology and breakthrough solutions for focused applications in high power and mid-power general lighting, portable lighting, horticulture, specialty lighting and video screens. For more information, visit **cree-led.com**.

Cree-LED

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