NEWS RELEASE

Cree LED Advances Horticulture Lighting with Launch of XLamp XP-L Photo Red S Line LEDs

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Optimized for large-scale growing operations, new LEDs reset the standard for efficiency and durability while offering a seamless upgrade path

DURHAM, N.C.--(BUSINESS WIRE)-- **Cree LED®** , a **Penguin Solutions** brand (Nasdaq: **PENG**), has introduced the new XLamp® XP-L Photo Red S Line LEDs, a groundbreaking advancement in horticulture lighting technology. Designed to deliver exceptional efficiency, exceptional durability and seamless system upgrades, these LEDs are optimized for high-performance applications in greenhouses, vertical farms, and other large-scale growing operations.

Cree LED's XLamp XP-L Photo Red LEDs deliver top-tier sulfur and corrosion resistance, extending their lifespan and ensuring reliable performance. (Graphic: Cree LED)

The XP-L Photo Red S Line LEDs represent a 6% improvement in typical Wall-Plug Efficiency (WPE) over the previous generation, reaching 83.5% at 700 mA and 25°C. This improvement offers compelling cost benefits for horticulture customers. They can reduce operating costs by upgrading to the same output with less power consumption or lower initial costs with a redesign that reduces the necessary number of Photo Red LEDs by up to 35%.

Built with advanced S Line technology, Cree LED's XP-L Photo Red LEDs deliver top-tier sulfur and corrosion resistance, extending their lifespan and ensuring reliable performance. These features significantly reduce maintenance costs while providing consistent, high-quality lighting throughout critical growth cycles. Additionally, with the same 3.45 x 3.45 mm XP footprint as the XP-G3 Photo Red S Line LEDs, the XP-L Photo Red enables seamless upgrades to existing designs.

“Our new XP-L Photo Red S Line LEDs combine the efficiency and durability our customers demand with our popular XP package design for ease of adoption,” said Joe Clark, president, Cree LED. “Along with our extensive portfolio of optimized solutions, these LEDs are an ideal choice for many horticulture lighting applications.”

Product samples are available now, and production quantities are available with standard lead times. To learn more, visit **www.cree-led.com/news/xlamp-xpl-photored/**.

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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 ensures supply chain continuity. We deliver best-in-class technology and breakthrough solutions for focused applications in high power and mid-power general lighting, horticulture, specialty lighting and video screens. For more information, visit **cree-led.com**.

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