



Cree LED Photophyll Select LEDs Are Fully Optimized for Horticulture Applications

DURHAM, NC – November 2, 2022 — [Cree LED](#), an [SGH](#) company (Nasdaq: SGH) today announced the launch of Photophyll™ Select LEDs, an advanced horticulture spectrum available now on the XLamp® XP-G3 LEDs and J Series® 2835 3V G Class LEDs. Photophyll Select LEDs are the industry’s first LEDs entirely characterized in horticulture metrics, allowing luminaire manufacturers to easily control the blue/green/red spectral ratios of their products for the unique needs of each plant type.

Through advanced spectral tuning, modern LED-based horticulture lighting systems can boost crop yield, improve plant health and reduce energy usage when compared to using standard LEDs. By maximizing green content and minimizing red content versus standard lighting LEDs, Photophyll Select LEDs are designed to easily upgrade the performance of high-efficiency, broad spectrum two-channel (white + red) horticulture luminaires by up to 6%. With these improvements, Photophyll Select LEDs enable lower luminaire costs and increase efficiency.

The spectral output of Photophyll Select LEDs is binned into two new metrics, both of which are based on the amount of photosynthetic photon flux (PPF) in industry-standard blue (400-500 nm), green (500-600 nm) and red (600-700 nm) bands. Since these new metrics do not rely on measures developed for human vision, such as correlated color temperature (CCT) or color rendering index (CRI), Photophyll Select LEDs allow luminaire designers to avoid translations for horticulture applications that can be confusing and inaccurate.

“The breakthrough performance of Photophyll Select LEDs empowers our customers with leading technology and new ways to achieve system level optimizations,” said David Peoples, vice president of marketing at Cree LED. “The benefits for our customers are tremendous; Photophyll Select LEDs are designed and engineered for the next generation of horticulture luminaires.”

Product samples are available now and production quantities are available with standard lead times. To learn more about Photophyll Select LEDs, visit: <https://cree-led.com/products/applications/horticulture/>

About Cree LED

Cree LED offers one of the industry’s broadest portfolios of application-optimized LED chips and components, leading the industry in performance and reliability. Our team delivers best-in-class

technology and breakthrough solutions for focused applications in high power and mid-power general lighting, specialty lighting and video screens. With more than thirty years of experience, Cree LED develops products backed by expert design assistance, superior sales support and industry-best global customer service. For more information, visit www.cree-led.com.

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