



NEWS RELEASE

# Cree Improves XLamp XP-G2 LED Performance with New High Efficacy Version

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XP-G2 High Efficacy LEDs Consume Less Power with Drop-in Compatibility

DURHAM, N.C. -- Cree, Inc. (Nasdaq: CREE) announces the new High Efficacy (HE) version of the XLamp® XP-G2 LED that delivers improved performance compared to standard XP-G2 LEDs, with higher output and greater efficiency to enable smaller, lighter, lower-cost designs. The original XLamp XP-G2 LED pioneered a broad set of LED applications for the industry, including outdoor and area lighting, and has since served as a preferred choice by manufacturers that require superior output, efficacy and optical control. The new XP-G2 HE extends this legacy with a drop-in upgrade for existing XP-G2 LED systems, allowing designers to quickly implement Cree's newest **Dmax™** high-power LED chip technology while maintaining the excellent color quality and optical control demanded by applications, such as outdoor, indoor, architectural and portable.

"Our architectural and high-end outdoor lighting products are used in very demanding environments where long lifetime and perfect light output are required," said Dante Cariboni, CEO of Cariboni Group. "The quality of light and optical control of the XLamp® XP-G2 LED make it the ideal light source for our designs to meet these tough requirements. Cree's new XP-G2 HE enables us to easily upgrade existing designs for greater efficacy and exceptional color quality."

The XP-G2 HE LED leverages Cree's latest chip technology to deliver 25 percent greater output via a higher maximum current of 2000 mA, plus up to 9 percent higher efficacy and lower thermal resistance.

"The XLamp® XP-G2 LED served as a breakthrough product that enabled a broad set of new LED applications. Today, Cree continues our commitment to make our latest LED technology available in form factors that are easy for our customers to use while enabling smaller, lighter, lower-cost designs and delivering the color quality that



Cree is known for,” said Dave Emerson, executive vice president and general manager, Cree LEDs. “Cree’s new XP-G2 HE further strengthens the industry’s best 3.45 mm high-power LED portfolio, which delivers leading lumen density and reliability for high-power general lighting applications.”

Product samples are available now and production quantities are available with standard lead times. Please visit <https://www.cree.com/led-components/products/xlamp-leds-discrete/xlamp-xp-g2> to learn more.

#### About Cree

Cree is an innovator of Wolfspeed™ power and radio frequency (RF) semiconductors, lighting class LEDs and lighting products. Cree’s product families include SiC materials, power-switching devices and RF devices targeted for applications, such as electric vehicles, fast charging, invertors, power supplies, telecom and mil/aero. Cree’s LED product families include blue and green LED chips, high-brightness LEDs and lighting-class power LEDs targeted for indoor and outdoor lighting, video displays, transportation and electronic signs and signals. Cree’s LED lighting systems and lamps serve indoor and outdoor applications.

Please refer to [www.cree.com](http://www.cree.com) for additional product and Company information.

This press release contains forward-looking statements involving risks and uncertainties, both known and unknown, that may cause actual results to differ materially from those indicated. Actual results may differ materially due to a number of factors, including the risk that actual savings and lifetimes will vary from expectations; the risk we may be unable to manufacture these new products with sufficiently low cost to offer them at competitive prices or with acceptable margins; the risk we may encounter delays or other difficulties in ramping up production of our new products; customer acceptance of our new products; the rapid development of new technology and competing products that may impair demand or render Cree’s products obsolete; and other factors discussed in Cree’s filings with the Securities and Exchange Commission, including its report on Form 10-K for the year ended June 25, 2017, and subsequent filings.

Cree® and XLamp® are registered trademarks and Dmax™ is a trademark of Cree, Inc.