



solutions catalogue

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2013
2014





CREE – a market-leading innovator of lighting-class LEDs and LED lighting. Cree's leadership begins with innovative materials, primarily silicon carbide (SiC), that provide high-efficiency performance for numerous semiconductor applications. Cree's XLamp® LEDs have continually exceeded industry standards for brightness and efficiency.

CREE - přední společnost na trhu LED diod pro osvětlení. Vedoucí postavení společnosti Cree začíná u inovativních materiálů jako silikonkarbid (SiC), které poskytují vysoký výkon a efektivitu pro mnohé polovodičové aplikace. XLamp® LED Cree soustavně posouvají průmyslové standardy ve svítivosti a účinnosti.

CREE – führender Innovator auf dem LED-Markt für Beleuchtungen. Die Führungsposition des Unternehmens Cree basiert auf innovativen Materialien wie Siliziumkarbid (SiC), welche eine hohe Leistung und Effizienz für zahlreiche Halbleiteranwendungen bieten. XLamp® LED Cree verschieben systematisch die Standards hinsichtlich Leuchtkraft und Wirkungsgrad.

A **CREE** vezető fejlesztő a világítástechnikában használt LED-ek piacán. A cég vezető szerepe az olyan innovatív anyagokban rejlik, mint a szilikonkarbid (SiC), mely nagy teljesítményt és hatásfokot biztosít számos félvezető alkalmazásban. Az XLamp® LED Cree folyamatosan emeli az ipari normák szintjét a fénykibocsátás és hatásfok területén.

CREE – lider i innowator na rynku diod LED do oświetlenia. Wiodąca pozycja spółki Cree zaczyna przy innowacyjnych materiałach jak silikonkarbid (SiC), które umożliwiają wysoką moc i efektywność. Dla wielu aplikacji XLamp® LED Cree nieustannie posuwają standardy przemysłowe w mocy świetlnej i wydajności.

CREE – un lider de piață inovator în domeniul iluminării cu LED-uri. Succesul companiei se datorează utilizării unor materiale revoluționare, în principal carbid de silicium (SiC) care cresc randamentul și eficiența numeroaselor aplicații de semiconductoare. LED-urile Cree XLamp® au întrecut standardele industriale în materie de strălucire și eficiență.

CREE – vedúci innovátor na trhu LED diód pre osvetlenie. Vedúce postavenie spoločnosti Cree začíná u inovatívnych materiálov ako silikónkarbid (SiC), ktoré poskytujú vysoký výkon a efektivnosť, pre mnohé polovodičové aplikácie. XLamp® LED Cree sústavne posúvajú priemyselné štandardy v svietivosti a účinnosti.

XLamp LEDs were the first "lighting-class" LEDs – LEDs bright enough to be used in general-illumination applications, such as desk lamps, ceiling fixtures and street lights. Using SiC as a platform material, Cree has spent over 20 years developing an array of new technologies that far surpass traditional ones. Cree leads the LED lighting revolution and is making energy-wasting traditional lighting technologies obsolete through the use of energy-efficient, environmentally friendly LED lighting. In addition, Cree's extensive line of high-brightness LEDs are also introducing new performance levels to outdoor video displays and decorative lighting.

Why CREE?

- market-leading innovator of lighting-class LEDs and LED lighting
- top quality products with highest luminosity/Watt

Did You Know?

Cree first brought the blue LED to market in 1989.

Features

- Complete portfolio of ANSI-compatible white
- Smallest warm-white chromaticity bins
- High energy efficiency and luminous flux
- Proven white point stability
- Complying with ISO standards
- RoHS and REACH-compliant
- Energy Star
- EPA

Applications

- Outdoor lighting
Parking area, roadway, pedestrian
- Portable and personal lighting
- Indoor lighting
Downlights, wall washers, flush-mount
- LED light bulbs
- Retail display lighting
Display case, refrigerated display
- Architectural lighting
- Solar-powered lighting
- Security lighting
- Automotive industry

Advantages of LED Light

- **High energy efficiency**
- luminous flux up to 110lm/W
- **High-quality light**
- no compromise between efficiency and CRI
- **Directional** - no wasted light; any pattern possible
- **Extremely long lifetime**
- life of more than 50,000 hours of operation
- **Mechanically resistant**
- no easy damage of components
- **Instant on** - reaches full brightness in nanoseconds
- **Environmentally friendly**
- contains no mercury, lead or other heavy metals
- **Infinitely controllable**
- allows easy energy saving
- **Frost resistant** - working at low temperatures





XLamp CXA2011

High lumen output in a single, easy-to-use package.

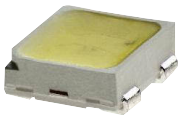
- 22.00 x 22.00 (mm) 120°



XLamp MC-E

High-Lumen Output in a Small Form Factor

- 7.00 x 9.00 (mm) 110°



XLamp ML-B

Lighting-Class Performance for Linear & Distributed Illumination Applications

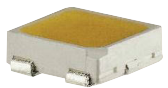
- 3.50 x 3.50 (mm) 120°



XLamp ML-C

Versatile, Mid-Power, Lighting-Class LED

- 3.50 x 3.50 (mm) 120°



XLamp ML-E

Versatile, Mid-Power, Lighting-Class LED

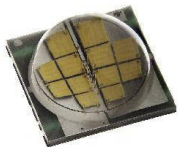
- 3.50 x 3.50 (mm) 120° | 125°



XLamp MP-L EasyWhite

Unprecedented Performance, Color Consistency and Lumen Density

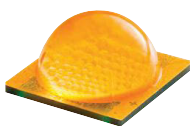
- 12.15 x 13.15 (mm) 125°



XLamp MT-G EasyWhite

Optimized for Small-Form-Factor Directional Lighting

- 8.90 x 8.90 (mm) 120°



XLamp MT-G2

Industry's best color consistency and superior optical control

- 8.90 x 8.90 (mm) 115°



XLamp MX-3

Industry's tightest color consistency and uniform angular chromaticity

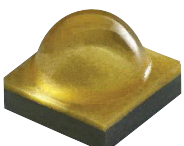
- 6.50 x 5.00 (mm) 125°



XLamp MX-6

80 CRI-minimum, higher flux and high-voltage options

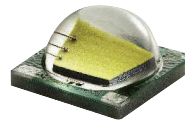
- 6.50 x 5.00 (mm) 120°



XLamp XB-D

Smallest lighting-class LED enables dramatically lower system cost

- 2.45 x 2.45 (mm) 115°



XLamp XM-L

Shatters Single-Die Performance Standards

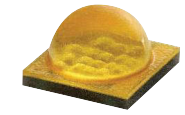
- 5.00 x 5.00 (mm) 125°



XLamp XM-L EasyWhite

Optimized for 20-25W Halogen Replacement Products

- 5.00 x 5.00 (mm) 115°



XLamp XM-L High-Voltage White

High efficacy and lower system cost for the smallest LED systems

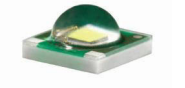
- 5.00 x 5.00 (mm) 115°



XLamp XP-C

Proven lighting-class performance and reliability

- 3.45 x 3.45 (mm) 115° | 125°



XLamp XP-E

Lighting-Class Performance

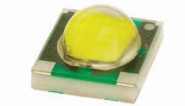
- 3.45 x 3.45 (mm) 115° | 130°



XLamp XP-E High-Efficiency White

High efficiency, lower system cost

- 3.45 x 3.45 (mm) 120°



XLamp XP-G

Optimized for high lumen directional lighting applications

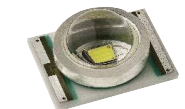
- 3.45 x 3.45 (mm) 120° | 125°



XLamp XR-C

Cree High-Power LEDs

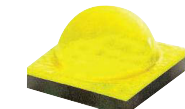
- 7.00 x 9.00 (mm) 90° | 100°



XLamp XR-E

Cree's Lighting-Class Power LEDs

- 7.00 x 9.00 (mm) 90° | 100°



XLamp XT-E High-Voltage White

High efficacy and lower system cost for the smallest LED systems

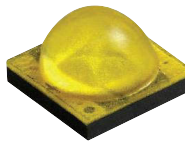
- 3.45 x 3.45 (mm) 115°



XLamp XT-E Royal Blue

High-performing royal-blue LED for remote-phosphor applications

- 3.45 x 3.45 (mm) 140°



XLamp XT-E White

Highest-performing lighting-class LED

- 3.45 x 3.45 (mm) 115°