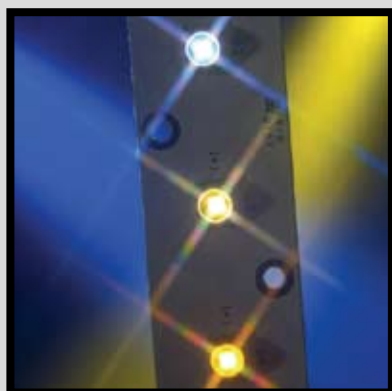




X Lamp "Lighting-Class" LEDs

FEATURES

APPLICATIONS



- **Complete portfolio of white**
 - ▶ Cool 5,000K to 10,000K CCT
 - ▶ Neutral 3,700K to 5,000K CCT
 - ▶ Warm 2,600K to 3,700K CCT
- **High minimum-flux order codes in full range of white**
 - ▶ Cool 107 lm @ 350 mA
 - ▶ Neutral 93.9 lm @ 350 mA
 - ▶ Warm 80.6 lm @ 350 mA
- **Proven white point stability**
- **L70 lifetime up to 50,000 hours**
- **Tested to highest standards in LED industry**
- **Consistent package size:**
 - ▶ XR / XR-C / XR-E

- **Outdoor lighting**
 - ▶ Parking area, roadway, pedestrian
- **Portable and personal lighting**
- **Indoor lighting**
 - ▶ Downlights, uplights, bollards
- **Retail display lighting**
 - ▶ Display case, refrigerated display
- **Architectural and landscape lighting**
- **Solar-powered lighting**
- **Security lighting**

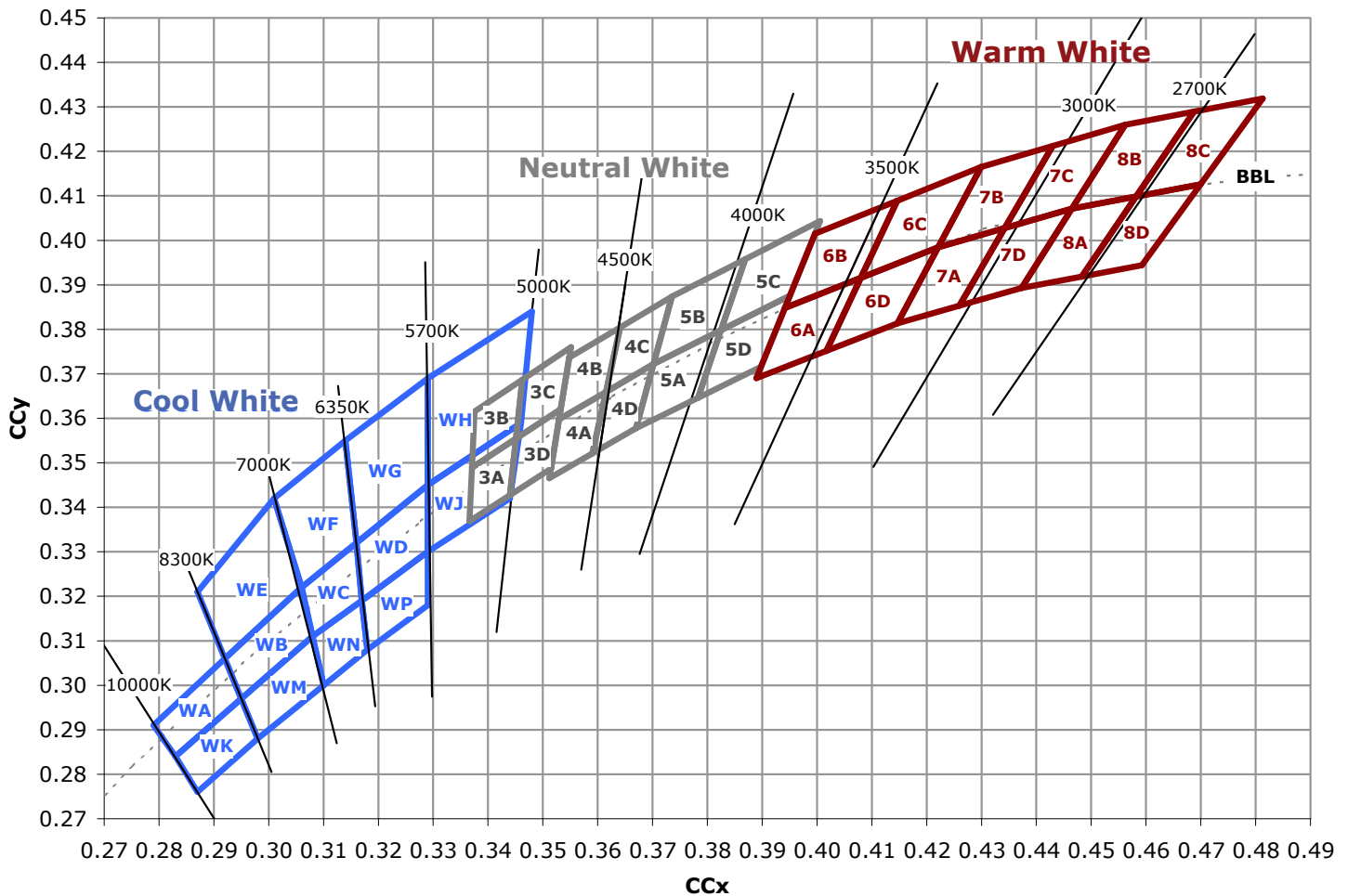
Basic advantages of LED Light

- | | | |
|--------------------------|---|--|
| Very energy efficient | » | greater than 80 lumens/watt and still improving |
| High-quality light | » | no compromise between efficacy and CRI |
| Directional | » | no wasted light; any pattern possible |
| Extremely long lifetime | » | 50,000 hours to 70% lumen maintenance |
| Inherently rugged | » | no filament to break |
| Instant on | » | reaches full brightness in nanoseconds |
| Environmentally friendly | » | contains no mercury, lead or other heavy metals |
| Infinitely controllable | » | enables new lighting fixtures and energy-saving techniques |
| Low-temperature-friendly | » | no issues starting in cold environments |

Typical Electrical - Optical Characteristics

| Part | Color | Angle | CCT range (K) | | Wavelength (nm) | Max Current (mA) | Voltage (VF) @ 350 mA | CRI | Luminous Flux (lm)* |
|---------------------|---------------|-------|---------------|--------|-----------------|------------------|-----------------------|-----|---------------------|
| | | | min | max | | | | | |
| XLamp XR-E LED Lamp | Cool White | 90 | 5,000 | 10,000 | - | 1000 | 3.30 | 75 | 73.9 - 107 |
| | Neutral White | 90 | 3,700 | 5,000 | - | 700 | 3.30 | 75 | 62.0 - 93.9 |
| | Warm White | 90 | 2,600 | 3,700 | - | 700 | 3.30 | 80 | 56.8 - 80.6 |
| | Royal Blue | 100 | - | - | 450-465 | 1000 | 3.30 | - | 300 mW - 425 mW |
| | Blue | 100 | - | - | 465-485 | 1000 | 3.30 | - | 23.5 - 30.6 |
| XLamp XR-C LED Lamp | Green | 100 | - | - | 520-535 | 700 | 3.30 | - | 67.2 |
| | Cool White | 90 | 5,000 | 10,000 | - | 500 | 3.50 | 75 | 56.8 - 73.9 |
| | Neutral White | 90 | 3,700 | 5,000 | - | 500 | 3.50 | 75 | 45.7 - 56.8 |
| | Warm White | 90 | 2,600 | 3,700 | - | 500 | 3.50 | 80 | 39.8 - 51.7 |
| | Royal Blue | 100 | - | - | 450-465 | 500 | 3.50 | - | 250 mW - 300 mW |
| | Blue | 100 | - | - | 465-475 | 500 | 3.50 | - | 13.9 - 18.1 |
| | Green | 100 | - | - | 520-535 | 500 | 3.50 | - | 39.8 - 51.7 |
| | Amber | 90 | - | - | 585-595 | 350 | 2.30 | - | 23.5 - 39.8 |
| | Red-Orange | 90 | - | - | 610-620 | 700 | 2.30 | - | 30.6 - 39.8 |
| | Red | 90 | - | - | 620-630 | 700 | 2.30 | - | 23.5 - 39.8 |

* = Standard Minimum Flux Order Codes @ 350 mA



Part number will be subject to change without notice.
www.cree.com

Headquarters
4600 Silicon Drive
Durham, NC 27703
Phone: +1 919 313 5300
XLampSales@cree.com

Cree Europe GmbH
Wipplingerstrasse 34 Top 174
1010 Vienna, Austria
Phone: +43 1 408 61 57-0
CreeEurope@cree.com

Cree Asia-Pacific Limited
Unit 301, 3/F, Photonics Centre,
2 Science Park East Avenue,
Hong Kong Science Park,
Shatin, Hong Kong
Phone: + 852 3602 9200
CreeAsia-Pacific@cree.com

Cree Hong Kong Limited
Unit 301, 3/F, Photonics Centre
2 Science Park East Avenue
Hong Kong Science Park
Shatin, Hong Kong
Phone: +852 2424 8228
CreeSalesAsia@cree.com

Cree Shanghai Opto Development Limited
Block 22, Universal Software Park,
No.879 Zhongjiang Rd.,
Shanghai, PRC
Postal Code: 200333
Phone: +86 21 5283 1808, 5283 1809