



XLamp High-Power LEDs

FEATURES

APPLICATIONS



- Industry-leading white LED performance
- Full portfolio of color LEDs
- High-reliability, surface-mount package
- Max current up to 1,000 mA
- L70 lifetime up to 50,000 hours
- Tested to highest standards in LED industry
- Outdoor area lighting
- Portable and personal lighting
- Commercial and retail lighting
- Architectural and landscape lighting
- Refrigerated display and storage
- Emergency-vehicle lighting
- Transportation
- Traffic signals
- Solar-powered lighting
- Sign backlighting
- Channel letters
- Dental and medical
- Accent lighting

Basic advantages of LED Light

- Very energy efficient
- High-quality light » Directional

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- Extremely long lifetime Inherently rugged

 - Instant on
- Environmentally friendly Infinitely controllable
- Low-temperature-friendly
- greater than 90 lumens/watt and still improving
 - no compromise between efficacy and CRI
- no wasted light; any pattern possible
- 50,000 hours to 70% lumen maintenance
- no filament to break
- reaches full brightness in nanoseconds >>
 - contains no mercury, lead or other heavy metals
- enables new lighting fixtures and energy-saving techniques
- no issues starting in cold environments >>

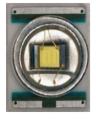
XLamp High-Power LEDs



| Part | Package Size (mm) | Color | Viewing Angle | CCT range (K) | | Wavelength (nm) | Typical V _F @ 350 mA (V)* | Max Current (mA)* | Luminous Flux (Im)** |
|----------------|----------------------|---------------|------------------|---------------|--------|--------------------|--|-------------------------|-------------------------|
| | | | | min | max | | | | |
| XLamp XR-E LED | 7.0 x 9.0 | Cool White | 90 | 5,000 | 10,000 | - | 3.3 | 1000 | 80.6 - 107 |
| | | Neutral White | 90 | 3,700 | 5,000 | - | 3.3 | 700 | 62.0 - 93.9 |
| | | Warm White | 90 | 2,600 | 3,700 | - | 3.3 | 700 | 56.8 - 87.4 |
| | | Royal Blue | 100 | - | - | 450-465 | 3.3 | 1000 | 300 mW - 425 mW |
| | | Blue | 100 | - | - | 465-485 | 3.3 | 1000 | 23.5 - 30.6 |
| | | Green | 100 | - | - | 520-535 | 3.3 | 700 | 67.2 |
| XLamp XR-C LED | 7.0 x 9.0 | Cool White | 90 | 5,000 | 10,000 | - | 3.5 | 500 | 56.8 - 87.4 |
| | | Neutral White | 90 | 3,700 | 5,000 | - | 3.5 | 500 | 51.7 - 80.6 |
| | | Warm White | 90 | 2,600 | 3,700 | - | 3.5 | 500 | 39.8 - 67.2 |
| | | Royal Blue | 100 | - | - | 450-465 | 3.5 | 500 | 250 mW - 300 mW |
| | | Blue | 100 | - | - | 465-475 | 3.5 | 500 | 13.9 - 18.1 |
| | | Green | 100 | - | - | 520-535 | 3.5 | 500 | 39.8 - 51.7 |
| | | Amber | 90 | - | - | 585-595 | 2.2 | 350 | 23.5 - 39.8 |
| | | Red-Orange | 90 | - | - | 610-620 | 2.2 | 700 | 30.6 - 39.8 |
| | | Red | 90 | - | - | 620-630 | 2.2 | 700 | 23.5 - 39.8 |
| XLamp MC-E LED | 7.0 x 9.0 | Cool White | 110 | 5,000 | 10,000 | - | 3.2 | 700 | 370 - 430 |
| | | Neutral White | 110 | 3,700 | 5,000 | - | 3.2 | 700 | 280 - 370 |
| | | Warm White | 110 | 2,600 | 3,700 | - | 3.2 | 700 | 240 - 320 |
| XLamp XP-E LED | 3.45 x 3.45 | Cool White | 115 | 5,000 | 10,000 | - | 3.2 | 700 | 87.4 - 107 |
| | | Neutral White | 115 | 3,700 | 5,000 | - | 3.2 | 700 | 73.9 - 100 |
| | | Warm White | 115 | 2,600 | 3,700 | - | 3.2 | 700 | 62.0 - 93.9 |
| XLamp XP-C LED | 3.45 x 3.45 | Cool White | 110 | 5,000 | 10,000 | - | 3.4 | 500 | 73.9 - 93.9 |
| | | Neutral White | 110 | 3,700 | 5,000 | - | 3.4 | 500 | 62.0 - 80.6 |
| | | Warm White | 110 | 2,600 | 3,700 | - | 3.4 | 500 | 51.7 - 73.9 |

 \ast Voltage & current specifications for XLamp MC-E are listed per LED $\ast\ast$ Range of available standard minimum flux order codes @ 350 mA

XLamp XR-E LED



XLamp MC-E LED

XLamp XP-E LED



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