LUXEON FlipChip White
Chip-scale packages for maximum design flexibility

LUXEON FlipChip White enables the next generation of lighting applications. Lumileds industry-leading line of Chip Scale Package (CSP) LEDs gives customers complete design flexibility. Its wide viewing angle delivers increased uniformity and potential for system cost reductions in diffuse and omnidirectional lighting applications. In addition, LUXEON FlipChip White is the ideal choice for cost sensitive applications as it can achieve high efficacy and flux at high current density, providing leading lm/$.

FEATURES AND BENEFITS

- Direct attach — no wire bonds for high reliability
- Micro sized: 1.4mm x 1.4mm and 1.1mm x 1.1mm packages for design flexibility and high packing density
- Small source size for highest luminance and beam control
- Wide viewing angle provides increased uniformity
- High efficacy at high drive current provides leading system level lm/$
- Low thermal resistance down to 2°C/W for LUXEON FlipChip White 10

PRIMARY APPLICATIONS

- Downlights
- High Bay & Low Bay
- Lamps
- Outdoor
- Specialty Lighting
- Spotlights
LUXEON FlipChip White product performance at test current, $T_j = 85^\circ C$.

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>NOMINAL</th>
<th>MINIMUM</th>
<th>LUMINOUS FLUX$^{[1]}$ (lm)</th>
<th>TYPICAL LUMINOUS EFFICACY (lm/W)</th>
<th>TYPICAL LUMINOUS FLUX (lm)</th>
<th>TYPICAL LUMINOUS EFFICACY (lm/W)</th>
<th>TEST CURRENT (mA)</th>
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Notes:
1. Lumileds maintains a tolerance of ±2 on CRI and ±6.5% on luminous flux measurements.
2. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.

Mechanical Dimensions for LUXEON FlipChip White 05

Mechanical Dimensions for LUXEON FlipChip White 10

Notes:
1. Drawings are not to scale.
2. All dimensions are in millimeters.