



# 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

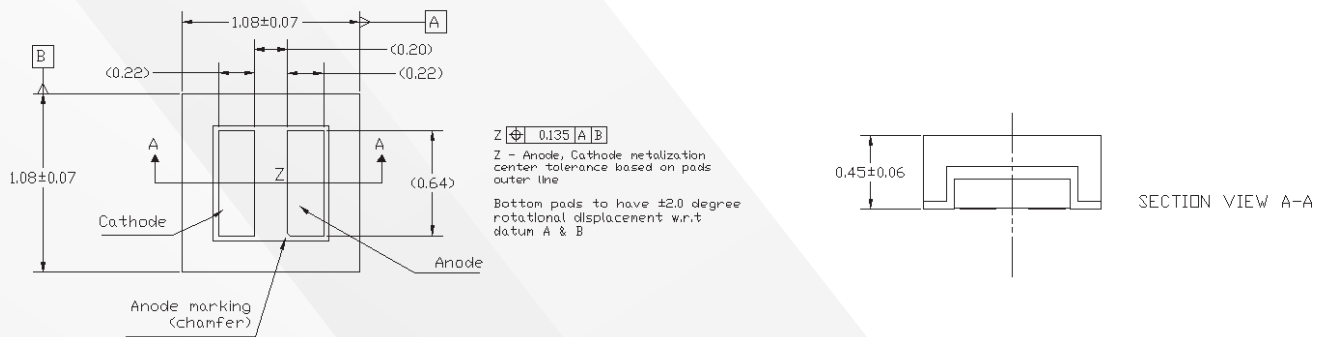
LUXEON FlipChip White product performance at test current,  $T_j=85^\circ\text{C}$ .

PRODUCT	NOMINAL CCT	MINIMUM CRI <sup>[1, 2]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TYPICAL LUMINOUS FLUX (lm)	TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	PART NUMBER
			MINIMUM	TYPICAL					
			TEST CURRENT						
LUXEON FlipChip White 05	4000K	70	57	60	124	106	105	175	LxF2-4070050000000
	2700K	80	45	49	101	86	86	175	LxF2-2780050000000
	3000K	80	47	53	109	94	94	175	LxF2-3080050000000
LUXEON FlipChip White 10	4000K	70	120	135	139	238	118	350	LxF2-4070100000000
	5000K	70	120	137	141	242	120	350	LxF2-5070100000000
	5700K	70	120	137	141	242	120	350	LxF2-5770100000000
	2700K	80	90	108	111	189	94	350	LxF2-2780100000000
	3000K	80	100	114	118	200	99	350	LxF2-3080100000000
	4000K	80	104	121	124	212	106	350	LxF2-4080100000000

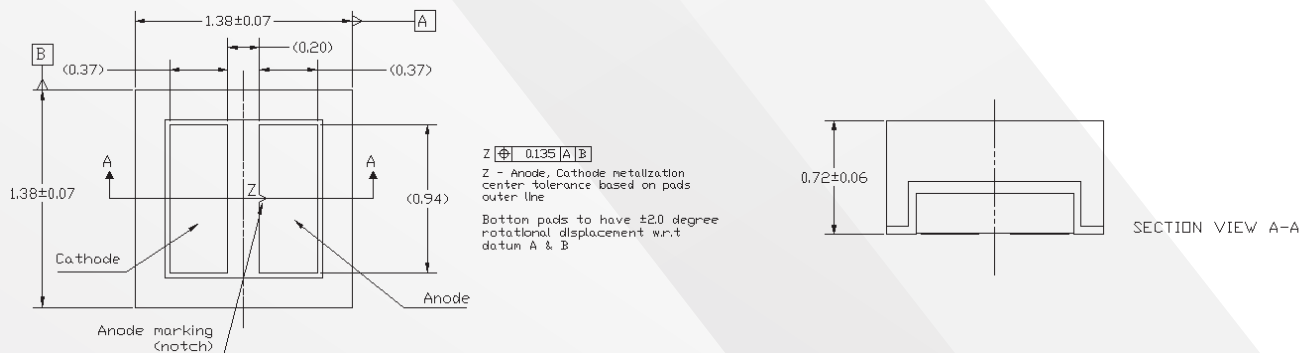
Notes:

- Lumileds maintains a tolerance of  $\pm 2$  on CRI and  $\pm 6.5\%$  on luminous flux measurements.
- 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:

- Drawings are not to scale.
- All dimensions are in millimeters.

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