



LUXEON CSP HL1

High current density Chip Scale Package (CSP) LED



LUXEON CSP HL1 LEDs offer high flux density performance in a compact footprint, enabling elegant and superior luminaire designs. A wide range of CCTs in 80 and 90CRI options make them ideal for high performance indoor lighting applications, designed into tunable and white color mixing solutions. Best-in-class Color over Angle, and top emission only light output, provides designers with leading Quality of Light performance for dramatic lighting designs and small fixtures. The compact package size and high punch allows design flexibility, beam steering, and white tuning versus traditional LED light sources.

FEATURES AND BENEFITS

- Small package size (1.4 x 1.4 x 0.3mm) allows closely packed arrays for narrow beam spots
- Enables color mixing in CCT tunable applications
- High current densities for high lumen output and lm/\$ at high lm/W
- CSP 1mm² with 2 pads for direct attach enables ease of assembly
- Surface emission only for directional lighting without side light leakage
- High package densities

PRIMARY APPLICATIONS

- Panel / Soft Lights
- Wall Grazer
- Track Lights
- Linear
- Wall Wash
- Downlights

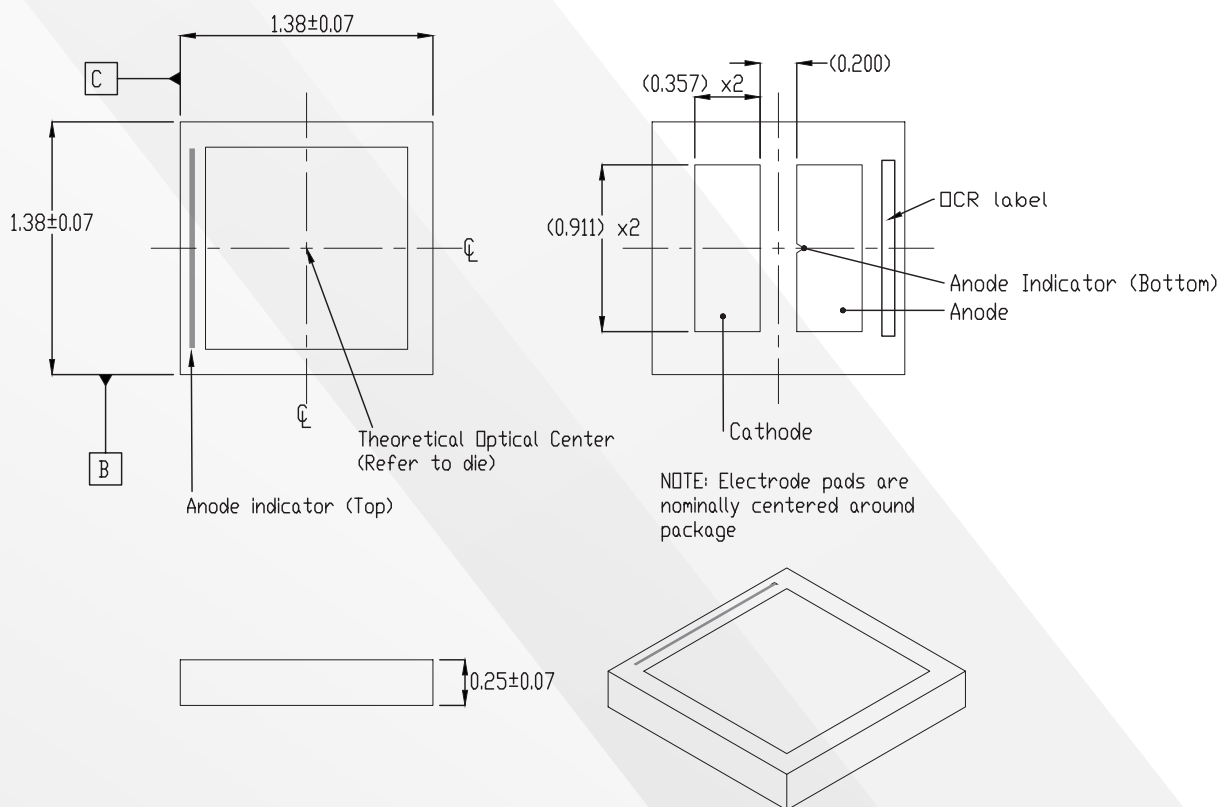
LUXEON CSP HL1 product performance at 350mA, $T_j=85^{\circ}\text{C}$.

NOMINAL CCT	CRI ^[1, 2]	LUMINOUS FLUX ^[1] (lm)		PART NUMBER
		MINIMUM	TYPICAL	
2700	80	90	99	L1HL-2780100000000
3000	80	90	104	L1HL-3080100000000
3500	80	100	109	L1HL-3580100000000
4000	80	100	113	L1HL-4080100000000
5000	80	100	116	L1HL-5080100000000
6500	80	110	119	L1HL-6580100000000
2700	90	70	86	L1HL-2790100000000
3000	90	80	93	L1HL-3090100000000
3500	90	80	96	L1HL-3590100000000
4000	90	90	104	L1HL-4090100000000
5000	90	90	104	L1HL-5090100000000
6500	90	90	107	L1HL-6590100000000

Notes:

1. Lumileds maintains a tolerance of ± 2 on CRI and $\pm 6.5\%$ on luminous flux measurements.
2. Typical CRI is approximately 2 points higher for those parts with minimum 70CRI specified, but this is not guaranteed. Minimum CRI is 68.5 for parts with 70CRI typical.

Mechanical Dimensions.



Notes:

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

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