

LUXEON HL1Z

High current density Chip Scale Package (CSP) LED



LUXEON HL1Z 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 0.36 mm) allows closely packed arrays for narrow beam spots
- Enables color mixing in CCT tunable applications B5
- 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

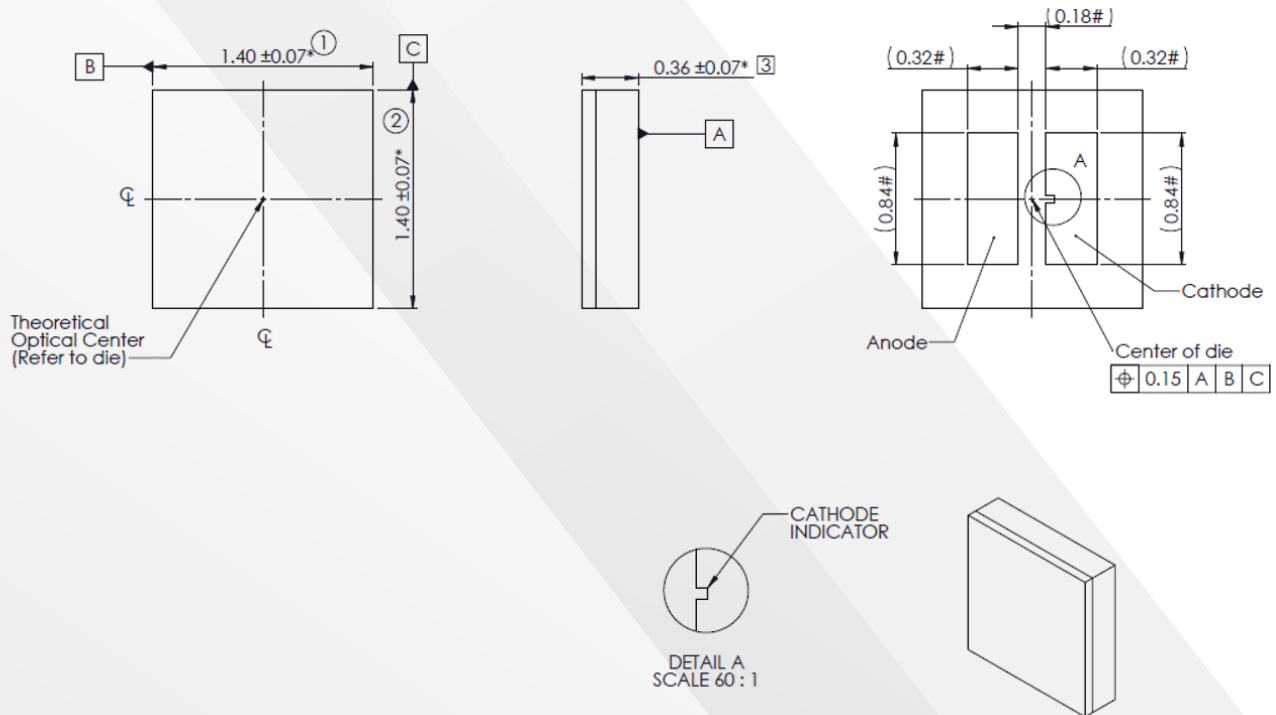
LUXEON HL1Z product performance at 350mA, T_j=85°C.

NOMINAL CCT	MINIMUM R9 ^[3]	MINIMUM CRI ^[1]	LUMINOUS FLUX ^[2] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	PART NUMBER
			MINIMUM	TYPICAL		
1800	0	80	70	89	91	L1HZ-1880100000000
2200	0	80	90	108	110	L1HZ-2280100000000
2700	0	80	100	127	130	L1HZ-2780100000000
3000	0	80	110	134	137	L1HZ-3080100000000
3500	0	80	110	141	144	L1HZ-3580100000000
4000	0	80	120	144	147	L1HZ-4080100000000
5000	0	80	120	143	146	L1HZ-5080100000000
5700	0	80	120	145	148	L1HZ-5780100000000
6500	0	80	120	143	146	L1HZ-6580100000000
2700	50	90	80	103	105	L1HZ-2790100000000
3000	50	90	90	108	110	L1HZ-3590100000000
3500	50	90	95	116	118	L1HZ-3590100000000
4000	50	90	100	118	120	L1HZ-4090100000000
5000	50	90	100	121	123	L1HZ-5090100000000
5700	50	90	100	124	127	L1HZ-5790100000000
6500	50	90	100	123	126	L1HZ-6590100000000

Notes:

1. Lumileds maintains a tolerance of ± 2 on CRI.
2. Lumileds maintains a tester tolerance of $\pm 6.5\%$ on luminous flux measurements.
3. Lumileds maintains a tester tolerance of ± 6.5 on R9 measurements.

Mechanical Dimensions.



Notes:

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

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