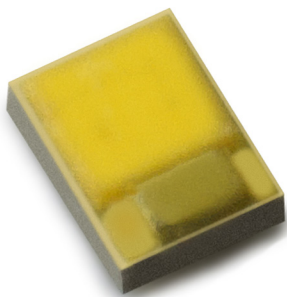




LUXEON Z

Industry's smallest high power emitter for use in close-packed applications requiring an undomed solution



LUXEON Z is a high power 1.3mm x 1.7mm LED that enables never before seen color consistency, luminance, flux density and design flexibility for lighting solutions. LUXEON Z is undomed, a feature that provides unmatched optical flexibility for precise beam angle control. Tested and binned at application conditions 85°C and available in 3- and 5-step MacAdam ellipse color bins. LUXEON Z emitters are an ideal choice for indoor and outdoor light sources requiring superior beam angles, higher efficacy and lower costs.

FEATURES AND BENEFITS

- 1.3mm x 1.7mm micro footprint enables a high degree of design flexibility
- Undomed design allows precise optical control
- 1A max drive current allows for more flux per LED
- 3- and 5-step MacAdam ellipse color binning for superior Quality of Light

PRIMARY APPLICATIONS

- Architectural
- Downlights
- Indoor Area Lighting
- Lamps
- Outdoor
- Specialty Lighting
- Spotlights

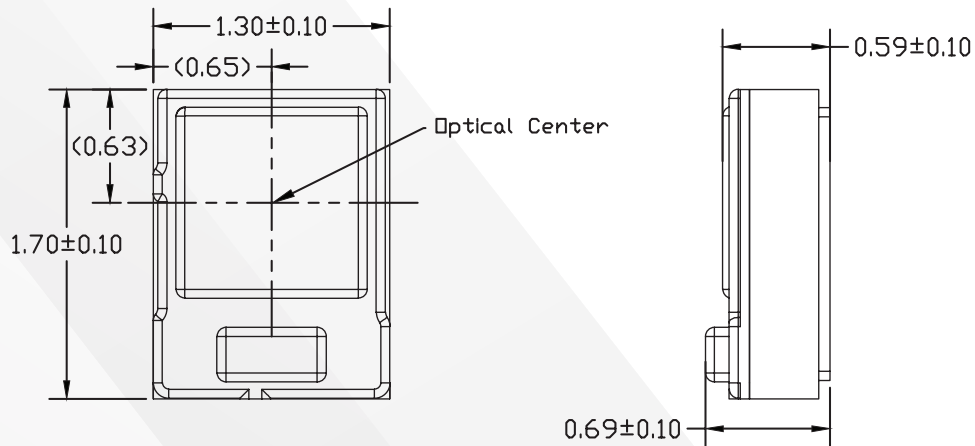
LUXEON Z product performance at 500mA and 700mA, T_j=85°C.

NOMINAL CCT	MINIMUM CRI ^(1,2)	LUMINOUS FLUX ⁽¹⁾ (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TYPICAL LUMINOUS FLUX (lm)	TYPICAL LUMINOUS EFFICACY (lm/W)	PART NUMBER
		MINIMUM	TYPICAL				
		500mA			700mA		
6500K	65	140	154	110	197	99	LXZ1-6565
4000K	70	120	134	96	172	86	LXZ1-4070
5000K	70	130	148	106	189	95	LXZ1-5070
5700K	70	140	152	109	195	98	LXZ1-5770
2700K	80	100	115	82	147	74	LXZ1-2780-y
3000K	80	110	124	89	159	80	LXZ1-3080-y
3500K	80	110	124	89	159	80	LXZ1-3580-y
4000K	80	120	130	93	166	83	LXZ1-4080-y

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.



Notes:

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