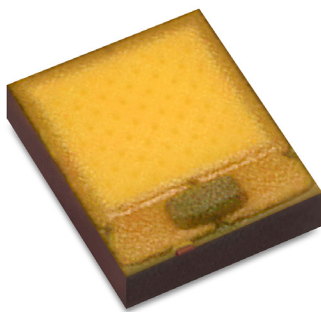




LUXEON Z ES

Extreme flux density in a micro footprint package for precise optical control



LUXEON Z ES is a high power 1.6mm x 2.0mm LED that enables never before seen color consistency, luminance, flux density and design flexibility for lighting solutions. LUXEON Z ES is undomed, a feature that provides unmatched optical flexibility for precise beam angle control. Tested and binned at application conditions, 85°C, LUXEON Z ES emitters are an ideal choice for indoor and outdoor light sources requiring superior beam angles, higher efficacy and lower costs.

FEATURES AND BENEFITS

- Micro footprint enables close packaging
- Undomed design allows precise optical control
- 3- and 5-step MacAdam ellipse: *Freedom from Binning* enabling color consistency
- LM-80 test report available

PRIMARY APPLICATIONS

- Wall Grazer
- Linear
- Wall Wash
- Lamps
- High Bay
- Low Bay
- [More...](#)

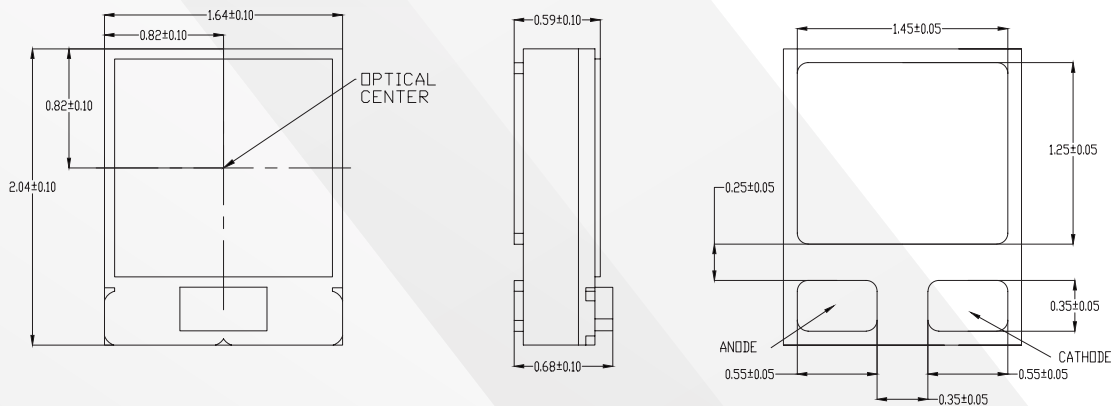
LUXEON Z ES product performance at 700mA and 350mA, T_j=85°C.

NOMINAL CCT	MINIMUM CRI ⁽¹⁾	LUMINOUS FLUX ⁽¹⁾ (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TYPICAL LUMINOUS FLUX (lm)	TYPICAL LUMINOUS EFFICACY (lm/W)	PART NUMBER ⁽²⁾
		MINIMUM	TYPICAL				
		700mA					
4000K	70	220	260	133	143	150	LXZ2-4070
5000K	70	220	260	133	143	150	LXZ2-5070
5700K	70	220	270	138	149	156	LXZ2-5770
5700K	70 ⁽³⁾	250	270	138	149	156	LXZ2-577T
6500K	70	220	270	138	149	156	LXZ2-6570
6500K	70 ⁽³⁾	250	270	138	149	156	LXZ2-657T
2200K	80	140	188	96	103	109	LXZ2-2280-x
2700K	80	170	216	110	119	125	LXZ2-2780-x
3000K	80	180	230	117	127	133	LXZ2-3080-x
3500K	80	190	240	122	132	139	LXZ2-3580-x
4000K	80	190	248	127	136	144	LXZ2-4080-x
5000K	80	190	250	128	138	145	LXZ2-5080-x
2700K	90	140	180	92	99	104	LXZ2-2790-x
3000K	90	150	190	97	105	110	LXZ2-3090-x
3500K	90	150	197	101	108	114	LXZ2-3590-x
4000K	90	150	205	105	113	119	LXZ2-4090-x
5700K	90	170	215	110	118	124	LXZ2-5790-x

Notes:

- Lumileds maintains a tolerance of ±6.5% on both luminous flux and radiometric power and ±2 on CRI measurements.
- In the part number the -x is the designation for the white color space requirement. On 80CRI and 90CRI versions 3 designates 3 SDCM and 5 designates 5 SDCM. For 70 CRI parts or lower, they will not have an SDCM designation and all parts are binned within a 5-step SDCM.
- Typical CRI.

Mechanical Dimensions.



Notes:

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

©2019 Lumileds Holding B.V. All rights reserved. LUXEON is a registered trademark of the Lumileds Holding B.V. in the United States and other countries.

lumileds.com

Neither Lumileds Holding B.V. nor its affiliates shall be liable for any kind of loss of data or any other damages, direct, indirect or consequential, resulting from the use of the provided information and data. Although Lumileds Holding B.V. and/or its affiliates have attempted to provide the most accurate information and data, the materials and services information and data are provided "as is," and neither Lumileds Holding B.V. nor its affiliates warrants or guarantees the contents and correctness of the provided information and data. Lumileds Holding B.V. and its affiliates reserve the right to make changes without notice. You as user agree to this disclaimer and user agreement with the download or use of the provided materials, information and data. A listing of Lumileds product/patent coverage may be accessed at lumileds.com/patents.