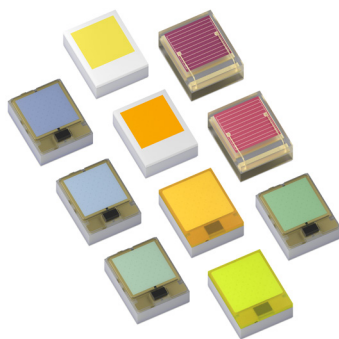




# LUXEON CZ ES Color Line

Maximum density and minimal area for complex color arrays



The LUXEON CZ ES Color Line has the smallest 2mm<sup>2</sup> die LEDs in the LUXEON family. Measuring only 2.0mm x 1.6mm in size, enables the maximum amount of LEDs to be packed in a small Light-Emitting Surface (LES). The 3-stripe foot print eases the PCB layout while ensuring a minimal LES with unprecedented color mixing potential. The undomed LED allows optics to be placed very close to its emitting surface. This device is optimized for use in architectural & entertainment lighting, and emergency vehicle lighting.

## FEATURES AND BENEFITS

- Max drive current - up to 2.5A
- High density placement in arrays
- Lambertian radiation pattern
- Suitable for mixing rod optics
- Excellent Rth with dedicated thermal pad
- Robust Durability with Class 3B ESD protection

## PRIMARY APPLICATIONS

- Spotlights
- Wall Wash
- Floodlights
- Landscape Lighting
- [More...](#)

LUXEON CZ ES Colors product performance at specified test current 1000mA, T<sub>j</sub>=85°C

COLOR	DOMINANT OR PEAK WAVELENGTH <sup>[1]</sup> (nm)		LUMINOUS FLUX (lm) OR RADIOMETRIC POWER <sup>[2]</sup> (mW)		PART NUMBER
	MINIMUM	MAXIMUM	MINIMUM	TYPICAL	
Deep Red	655	675	900	1009	L1CV-DRD1000000000
Red	624	634	93	109	L1CV-RED1000000000
PC Amber	-	-	220	269	L1CV-PCA1000000000
Mint	-	-	383	451	L1CV-MNT1000000000
Lime	-	-	383	466	L1CV-LME1000000000
Green	520	540	300	345	L1CV-GRN1000000000
Cyan	490	510	180	212	L1CV-CYN1000000000
Blue	465	485	90	116	L1CV-BLU1000000000
Royal Blue	440	460	1230	1389	L1CV-RYL1000000000

Notes:

- Lumileds maintains a tolerance of ±6.5% on luminous flux measurements. PC Amber, Mint and Lime are binned by chromaticity coordinates. Deep Red and Royal Blue are binned by peak wavelength. All other colors are binned by dominant wavelength.
- Deep Red and Royal Blue are binned by radiometric power. All other colors are binned by luminous flux.

LUXEON CZ ES White product performance at 1000mA, T<sub>j</sub>=85°C

COLOR	NOMINAL CCT	MINIMUM CRI <sup>[1]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	PART NUMBER
			MINIMUM	TYPICAL		
White	5700K	70	315	370	125	L1CV-5770000000000
	2700K	80	264	310	105	L1CV-2780000000000
	3000K	80	280	320	108	L1CV-3080000000000
	4000K	80	295	347	118	L1CV-4080000000000
	5700K	80	300	350	119	L1CV-5780000000000

Notes:

- Lumileds maintains a tolerance of ±2 on CRI and ±6.5% on luminous flux measurements.