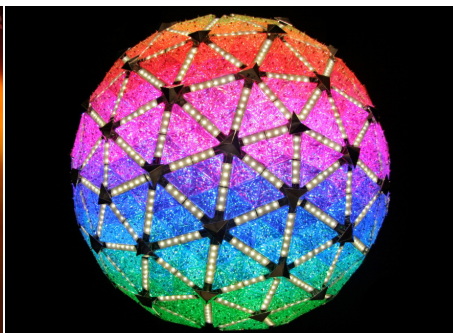
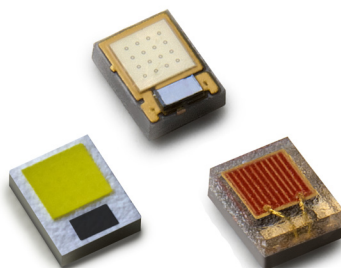




LUXEON Z Color Line

High power color LEDs in a micro footprint package for ultimate design flexibility



LUXEON Z Color Line comprises a broad portfolio of LEDs that enable never before seen lumen density, flexibility and freedom of design. Available in the full spectrum of colors from 440nm to 670nm, including Lime, enabling highly efficient color mixing with a convenient above-blackbody color point. The LUXEON Z Color Line is ideal for entertainment and stage lighting, indoor and outdoor architectural lighting, emergency vehicle lighting, remote phosphor applications and a wide spectrum of specialty lighting applications.

FEATURES AND BENEFITS

- Broad selection spanning 440–670nm, including a unique Lime color
- 2.2mm² footprint enables unique arrangements in space constrained applications
- 4-up RGBW pixel in 9.5mm² — four colors in less area than one regular high power color emitter
- Undomed design allows better optical management
- Enables customizable light sources: linear, rectangular, circular

PRIMARY APPLICATIONS

- Architectural
- Lamps
 - Remote Phosphor
- Specialty Lighting

Product performance of LUXEON Z Colors at 500mA at 25°C.

COLOR	DOMINANT ^[1] or PEAK WAVELENGTH ^[2] (nm)		LUMINOUS FLUX (lm) or RADIOMETRIC POWER (mW) ^[1]		PART NUMBER
	MINIMUM	MAXIMUM	MINIMUM	TYPICAL	
Deep Red	650	670	300	325	LXZ1-PA01
	650	670	350	375	LXZ1-PA01
Red	620	645	40	44	LXZ1-PD01
	620	645	48	52	LXZ1-PD01
	620	645	56	60	LXZ1-PD01
Red-Orange	610	620	56	60	LXZ1-PH01
	610	620	64	68	LXZ1-PH01
	610	620	72	76	LXZ1-PH01
Amber	585	590	48	52	LXZ1-PL01
	585	595	56	60	LXZ1-PL01
	585	595	64	68	LXZ1-PL01
Green	520	540	80	84	LXZ1-PM01
	520	540	88	92	LXZ1-PM01
	520	540	96	100	LXZ1-PM01
	520	540	104	108	LXZ1-PM01
Cyan	490	510	48	52	LXZ1-PE01
	490	510	56	60	LXZ1-PE01
	490	510	64	68	LXZ1-PE01
Blue	460	480	24	28	LXZ1-PB01
	460	480	32	36	LXZ1-PB01
	460	480	40	44	LXZ1-PB01
Royal Blue	440	460	500	525	LXZ1-PR01
	440	460	550	575	LXZ1-PR01
	440	460	600	625	LXZ1-PR01

Product performance of LUXEON Z Colors at 500mA at 85°C.

COLOR	DOMINANT WAVELENGTH ^[1] (nm)		LUMINOUS FLUX (lm) ^[1]		PART NUMBER
	MINIMUM	MAXIMUM	MINIMUM	TYPICAL	
Red	624	634	24	28	LXZ1-PD02
	624	634	32	36	LXZ1-PD02
	624	634	40	44	LXZ1-PD02
	624	634	48	52	LXZ1-PD02
Red-Orange	614	624	40	44	LXZ1-PH02
	614	624	48	52	LXZ1-PH02
	614	624	56	60	LXZ1-PH02
Amber	594	604	16	20	LXZ1-PL03
	594	604	24	28	LXZ1-PL03
	594	604	32	36	LXZ1-PL03
PC Amber	588	592	72	76	LXZ1-PL02
	588	592	80	84	LXZ1-PL02
	588	592	88	92	LXZ1-PL02
	588	592	96	100	LXZ1-PL02
	588	592	104	110	LXZ1-PL02
Lime	566	569	144	149	LXZ1-PX01
	566	569	154	159	LXZ1-PX01
	566	569	164	169	LXZ1-PX01
	566	569	174	179	LXZ1-PX01
	566	569	184	189	LXZ1-PX01
	566	569	194	199	LXZ1-PX01

Notes for Tables:

1. Lumileds maintains a tolerance of $\pm 0.5\text{nm}$ for dominant wavelength and $\pm 6.5\%$ on luminous flux measurements.