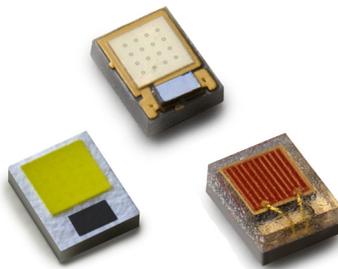


LUXEON Z Color Line

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

LUXEON Z Color Line product performance at 500mA, T_j=25°C.

COLOR	DOMINANT ^[1] or PEAK WAVELENGTH ^[2] (nm)		LUMINOUS FLUX ^[1] (lm) or RADIOMETRIC POWER ^[3] (mW)		PART NUMBER
	MINIMUM	MAXIMUM	MINIMUM	TYPICAL	
Deep Red	650	670	250	350	LXZ1-PA01
Red	620	645	40	52	LXZ1-PD01
Red-Orange	610	620	56	65	LXZ1-PH01
Amber	585	590	48	56	LXZ1-PL01
Green	520	540	80	118	LXZ1-PM01
Cyan	490	510	48	82	LXZ1-PE01
Blue	460	480	24	38	LXZ1-PB01
Royal Blue	440	460	500	575	LXZ1-PR01

LUXEON Z Color Line product performance at 500mA, T_j=85°C.

COLOR	DOMINANT WAVELENGTH ^[1] (nm)		LUMINOUS FLUX ^[1] (lm)		PART NUMBER
	MINIMUM	MAXIMUM	MINIMUM	TYPICAL	
Red	624	634	24	43	LXZ1-PD02
Red-Orange	614	624	40	47	LXZ1-PH02
Amber	594	604	16	24	LXZ1-PL03
PC Amber	588	592	72	107	LXZ1-PL02
Lime	566	569	144	175	LXZ1-PX01

Notes for Tables:

1. Lumileds maintains a tolerance of ±0.5nm for dominant wavelength and ±6.5% on luminous flux measurements.
2. Deep Red and Royal Blue are binned by peak wavelength. All other colors are binned by dominant wavelength.
3. Deep Red and Royal Blue are binned by radiometric power. All other colors are binned by luminous flux.