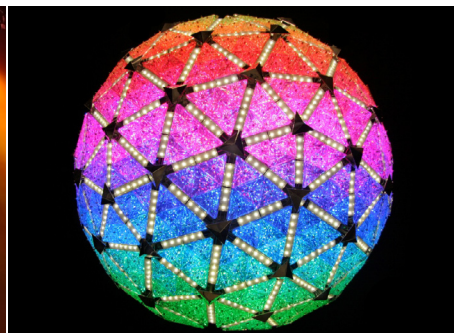
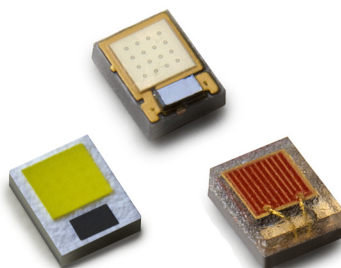




LUXEON Z Colors

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



LUXEON Z Colors is 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 by providing a convenient above-blackbody color point with optical standalone efficacy. LUXEON Z Colors are 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 gamut, 440–670nm, including 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 through collimated light output
- Enables customizable light sources: linear, rectangular, circular

PRIMARY APPLICATIONS

- Architectural
- Lamps
- Specialty Lighting

LUXEON Z Colors product performance at 500mA and 700mA, T_j=25°C and T_j=85°C.

COLOR	MINIMUM LUMINOUS FLUX (lm) OR RADIOMETRIC POWER (mW)	TYPICAL EFFICACY (lm/W) OR RADIANT EFFICACY (%)	LUMINOUS FLUX (lm) OR RADIOMETRIC POWER (mW)	TYPICAL EFFICACY (LM/W) OR RADIANT EFFICACY (%)	TEST JUNCTION	PART NUMBER
	500mA		700mA			
Deep Red	300	32%	416	29%	25°C	LXZ1-PA01
	350	34%	454	31%	25°C	LXZ1-PA01
Red	24	29	42	25	85°C	LXZ1-PX01
	32	36	53	32	85°C	LXZ1-PX01
	40	42	60	38	25°C	LXZ1-PD01
	40	43	62	38	85°C	LXZ1-PX01
	48	50	70	46	25°C	LXZ1-PD01
	48	47	69	42	85°C	LXZ1-PX01
	56	54	77	49	25°C	LXZ1-PD01
Red-Orange	29	41	59	36	85°C	LXZ1-PH02
	36	48	60	43	85°C	LXZ1-PH02
	43	53	77	47	85°C	LXZ1-PH02
	56	57	82	53	25°C	LXZ1-PH01
	64	63	90	58	25°C	LXZ1-PH01
	72	69	99	66	25°C	LXZ1-PH01
Amber	16	21	30	18	85°C	LXZ1-PL03
	24	27	38	23	85°C	LXZ1-PL03
	32	32	46	29	85°C	LXZ1-PL03
	48	51	73	48	25°C	LXZ1-PL01
	56	57	82	53	25°C	LXZ1-PL01
	64	63	90	59	25°C	LXZ1-PL01
PC Amber	72	54	99	49	85°C	LXZ1-PL02
	80	60	109	54	85°C	LXZ1-PL02
	88	65	119	59	85°C	LXZ1-PL02
	96	68	126	62	85°C	LXZ1-PL02
	104	73	135	66	85°C	LXZ1-PL02
Lime	144	107	200	100	85°C	LXZ1-PX01
	154	113	212	106	85°C	LXZ1-PX01
	164	118	221	111	85°C	LXZ1-PX01
	174	124	233	117	85°C	LXZ1-PX01
	184	131	245	123	85°C	LXZ1-PX01
	194	136	255	128	85°C	LXZ1-PX01
Green	80	54	103	46	25°C	LXZ1-PM01
	88	59	113	50	25°C	LXZ1-PM01
	96	63	120	53	25°C	LXZ1-PM01
	104	71	128	61	25°C	LXZ1-PM01
Cyan	48	35	67	30	25°C	LXZ1-PE01
	56	39	74	33	25°C	LXZ1-PE01
	64	44	84	38	25°C	LXZ1-PE01
Blue	24	21	39	19	25°C	LXZ1-PB01
	32	26	49	23	25°C	LXZ1-PB01
	40	30	57	27	25°C	LXZ1-PB01
Royal Blue	500	37%	704	35%	25°C	LXZ1-PR01
	550	40%	757	37%	25°C	LXZ1-PR01
	600	43%	823	40%	25°C	LXZ1-PR01

Notes:

1. Lumileds maintains a tolerance of ±6.5% on flux measurements.
2. Correlated color temperature is based upon mounted die on highly reflective surface at T_j=25°C.

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