



LUXEON C Color Line

Multiple colors, a single focal length



The LUXEON C Color Line is an optically advanced portfolio of Color and White LEDs. Designed for flawless color mixing, LUXEON C Color Line has one focal length for all colors, which provides consistent radiation patterns from secondary optics and maximizes optical efficiency. With low dome design, it keeps effective source size small while still improving light extraction. Designed for smooth color mixing and maximum punch, LUXEON C Color Line is the optimal LED solution for architecture, entertainment and emergency vehicle lighting applications.

FEATURES AND BENEFITS

One focal length allows flawless color mixing, maximum optical efficiency and removes halos

Low dome design eliminates trade-offs between flux and source size

Hot tested—removes guesswork for designers

Industry's lowest thermal resistance means greater light output and lower heatsink costs

Small symmetrical 2x2mm² package enables dense packing and limits the impact of rotation during reflow

PRIMARY APPLICATIONS

Spotlights

Wall Wash

Floodlights

Landscape Lighting

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LUXEON C Colors product performance at 350mA, T_j=85°C.

COLOR	DOMINANT OR PEAK WAVELENGTH ^[1] (nm)		LUMINOUS FLUX (lm) OR RADIOMETRIC POWER ^[2] (mW)		PART NUMBER
	MINIMUM	MAXIMUM	MINIMUM	TYPICAL	
Far Red	720	750	190	340	L1C1-FRD1000000000
Deep Red	655	675	280	380	L1C1-DRD1000000000
Red	624	634	35	49	L1C1-RED1000000000
Red-Orange	614	624	45	60	L1C1-RNG1000000000
Amber	585	600	20	30	L1C1-AMB1000000000
PC Amber	-	-	80	110	L1C1-PCA1000000000
Mint	-	-	140	152	L1C1-MNT1000000000
Lime	-	-	125	149	L1C1-LME1000000000
Green	520	540	90	141	L1C1-GRN1000000000
Cyan	490	510	65	100	L1C1-CYN1000000000
Blue	465	485	25	43	L1C1-BLU1000000000
PC Blue	-	-	40	52	L1C1-PCB1000000000
Royal Blue	440	460	480	552	L1C1-RYL1000000000
Violet	420	430	480	595	L1C1-VLT1000000000

Notes:

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

LUXEON C White product performance at 350mA, T_j=85°C.

COLOR	NOMINAL CCT	MINIMUM CRI ^[1]	LUMINOUS FLUX ^[1] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	PART NUMBER
			MINIMUM	TYPICAL		
White	4000K	70	100	116	121	L1C1-40700000000000
	5000K	70	100	117	122	L1C1-50700000000000
	5700K	70	100	118	124	L1C1-57700000000000
	6500K	70	100	119	124	L1C1-65700000000000
	2200K	80	70	85	88	L1C1-22800000000000
	2700K	80	90	94	98	L1C1-27800000000000
	3000K	80	90	102	106	L1C1-30800000000000
	3500K	80	90	108	112	L1C1-35800000000000
	4000K	80	100	113	117	L1C1-40800000000000
	2700K	90	70	82	85	L1C1-27900000000000
	3000K	90	70	86	89	L1C1-30900000000000
	4000K	90	75	95	99	L1C1-40900000000000
	5700K	90	80	93	94	L1C1-57900000000000

Notes:

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