

ILLUMINATION



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
More



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

COLOR	DOMINANT OR PEAK WAVELENGTH ^[1] (nm)		LUMINOUS FLUX (lm) OR RADIOMETRIC POWER ^[2] (mW)		PART
	MINIMUM	MAXIMUM	MINIMUM	TYPICAL	NUMBER
Far Red	720	750	190	340	L1C1-FRD100000000
Deep Red	655	675	280	380	L1C1-DRD100000000
Red	624	634	35	49	L1C1-RED100000000
	614	624	45	60	L1C1-RNG100000000
Amber	585	600	20	30	L1C1-AMB100000000
PC Amber	-	-	80	110	L1C1-PCA100000000
Mint	-	-	140	152	L1C1-MNT100000000
Lime	-	-	125	149	L1C1-LME100000000
Green	520	540	90	141	L1C1-GRN100000000
Cyan	490	510	65	100	L1C1-CYN100000000
Blue	465	485	25	43	L1C1-BLU100000000
PC Blue	-	-	40	52	L1C1-PCB100000000
Royal Blue	440	460	480	552	L1C1-RYL100000000
Violet	420	430	480	595	L1C1-VLT100000000

Notes:
1. 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. 2. 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_i=85°C.

COLOR	NOMINAL CCT	MINIMUM CRI ^[1]	LUMINOUS FLUX ^[1] (Im)		TYPICAL LUMINOUS EFFICACY	PART
			MINIMUM	TYPICAL	(lm/W)	NUMBER
White	4000K	70	100	116	121	L1C1-4070000000000
	5000K	70	100	117	122	L1C1-5070000000000
	5700K	70	100	118	124	L1C1-5770000000000
	6500K	70	100	119	124	L1C1-6570000000000
	2200K	80	70	85	88	L1C1-2280000000000
	2700K	80	90	94	98	L1C1-2780000000000
	3000K	80	90	102	106	L1C1-3080000000000
	3500K	80	90	108	112	L1C1-3580000000000
	4000K	80	100	113	117	L1C1-4080000000000
	2700K	90	70	82	85	L1C1-2790000000000
	3000K	90	70	86	89	L1C1-3090000000000
	4000K	90	75	95	99	L1C1-4090000000000
	5700K	90	80	93	94	L1C1-5790000000000

Notes:

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

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