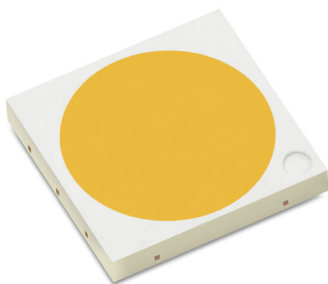


# LUXEON 5050

High efficacy and lumens in a multi-die, high power package, enabling low system costs



LUXEON 5050 is a multi-die, high power package that provides high luminance from a single package to enable cost effective, single optic and directional fixture designs. LUXEON 5050 uses an industry standard 5050 surface mount package with the smallest round Light Emitting Surface (LES). LUXEON 5050 comes in 70CRI, 80CRI and 90CRI with a wide range of CCTs, and offers hot-color targeting to ensure that the LEDs are within color target at application conditions of 85°C.

## FEATURES AND BENEFITS

- Small LES (4.6mm) enables good optic design for great punch
- Enables highest efficacy system design by driving at low current
- Hot-color targeting ensures color is within ANSI bin at 85°C
- Binned within 3-step and 5-step MacAdam ellipse, ensuring color uniformity
- Compatible with low cost and high efficacy drivers

## PRIMARY APPLICATIONS

- Downlights
- High Bay & Low Bay
- Lamps
- Outdoor
- Spotlights

LUXEON 5050 product performance at test current,  $T_j=25^{\circ}\text{C}$ .

VOLTAGE	NOMINAL CCT <sup>[1]</sup>	MINIMUM CRI <sup>[2, 3]</sup>	LUMINOUS FLUX <sup>[2, 3]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	PART NUMBER	
			MINIMUM	TYPICAL				
24V	2700K	70	535	600	153	160	L150-2770502400000	
	3000K	70	553	620	158	160	L150-3070502400000	
	4000K	70	580	650	166	160	L150-4070502400000	
	5000K	70	580	650	166	160	L150-5070502400000	
	5700K	70	570	650	166	160	L150-5770502400000	
	6500K	70	570	650	166	160	L150-6570502400000	
	2700K	80	500	560	143	160	L150-2780502400000	
	3000K	80	516	585	149	160	L150-3080502400000	
	3500K	80	527	595	152	160	L150-3580502400000	
	4000K	80	539	610	156	160	L150-4080502400000	
	5000K	80	539	610	156	160	L150-5080502400000	
	5700K	80	539	610	156	160	L150-5780502400000	
	6500K	80	539	610	156	160	L150-6580502400000	
	2700K	90	414	471	120	160	L150-2790502400000	
	3000K	90	428	486	124	160	L150-3090502400000	
	3500K	90	445	506	129	160	L150-3590502400000	
	4000K	90	456	526	134	160	L150-4090502400000	
	5000K	90	456	526	134	160	L150-5090502400000	
	5700K	90	456	526	134	160	L150-5790502400000	
	6V	2700K	70	535	600	153	640	L150-2770500600000
		3000K	70	553	620	158	640	L150-3070500600000
4000K		70	580	650	166	640	L150-4070500600000	
5000K		70	580	650	166	640	L150-5070500600000	
5700K		70	570	650	166	640	L150-5770500600000	
6500K		70	570	650	166	640	L150-6570500600000	
2700K		80	500	560	143	640	L150-2780500600000	
3000K		80	516	585	149	640	L150-3080500600000	
3500K		80	527	595	152	640	L150-3580500600000	
4000K		80	539	610	156	640	L150-4080500600000	
5000K		80	539	610	156	640	L150-5080500600000	
5700K		80	539	610	156	640	L150-5780500600000	
6500K		80	539	610	156	640	L150-6580500600000	
2700K		90	414	471	120	640	L150-2790500600000	
3000K		90	428	486	124	640	L150-3090500600000	
3500K		90	445	506	129	640	L150-3590500600000	
4000K		90	456	526	134	640	L150-4090500600000	
5000K		90	456	526	134	640	L150-5090500600000	
5700K		90	456	526	134	640	L150-5790500600000	

Notes:

1. Correlated color temperature is not targeted at  $T_j=85^{\circ}\text{C}$ .
2. Luminous flux and CRI are based upon mounted package on highly reflective surface at  $T_j=25^{\circ}\text{C}$ . Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.
3. Lumileds maintains a tolerance of  $\pm 2$  on CRI and  $\pm 7\%$  on luminous flux measurements.

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