



LUXEON XR-5050 Round

High performance LED modules with extreme efficacy for robust lighting designs



LUXEON XR-5050 Round products are LED modules optimized for lighting applications requiring high efficacy LED arrays mounted on a rigid and thermally conductive substrate. These versatile building blocks feature 8, 12, and 16 LUXEON 5050 LEDs on a MCPCB substrate, are designed for ease of system integration, faster time to market, and use with industry standard optics. LUXEON XR-5050 Round is a complete solution combined with standard third-party optics and heatsink.

FEATURES AND BENEFITS

Efficacy and luminous flux of up to 184lm/W and 5700lm available

A full range of CCT options available at 70CRI (2200K to 5700K) and 80CRI (2700K to 4000K)

Designed to be compatible with standard third party optics

Superior board level color control of ≤ 3 SDCM

Features industry award high efficacy and lumens in a multi-die, high power package and low system costs – LUXEON 5050

5-year guarantee

PRIMARY APPLICATIONS

High Bay

Low Bay

Urban Streetlights

Outdoor Area Lights

LUXEON XR-5050 Round product performance at 700mA, T_c=85°C.

NOMINAL CCT	MINIMUM CRI ^[1, 2]	LUMINOUS FLUX ⁽¹⁾ (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	ENERGY EFFICIENCY CLASS	PART NUMBER
		MINIMUM	TYPICAL			
2200	70	2238	2407	153	E	L213-2270008MDE001
2700	70	2441	2643	168	E	L213-2770008MDE001
3000	70	2380	2760	175	E	L213-3070008MDE001
3500	70	2564	2795	177	D	L213-3570008MDE001
4000	70	2663	2841	180	D	L213-4070008MDE001
5000	70	2647	2824	179	D	L213-5070008MDE001
5700	70	2443	2761	175	E	L213-5770008MDE001
2700	80	2187	2374	151	E	L213-2780008MDE001
3000	80	2245	2477	157	E	L213-3080008MDE001
4000	80	2356	2632	167	E	L213-4080008MDE001
2200	70	3340	3592	154	E	L213-2270012MDE001
2700	70	3644	3945	169	E	L213-2770012MDE001
3000	70	3626	4206	180	E	L213-3070012MDE001
3500	70	3929	4228	181	D	L213-3570012MDE001
4000	70	4034	4304	184	D	L213-4070012MDE001
5000	70	4015	4284	184	D	L213-5070012MDE001
5700	70	3671	4149	178	E	L213-5770012MDE001
2700	80	3237	3543	152	E	L213-2780012MDE001
3000	80	3353	3699	159	E	L213-3080012MDE001
4000	80	3619	3988	171	E	L213-4080012MDE001
2200	70	4454	4790	154	E	L213-2270016MDE001
2700	70	4859	5260	169	E	L213-2770016MDE001
3000	70	4835	5607	180	E	L213-3070016MDE001
3500	70	5172	5638	181	D	L213-3570016MDE001
4000	70	5379	5739	184	D	L213-4070016MDE001
5000	70	5354	5712	184	D	L213-5070016MDE001
5700	70	4895	5532	178	E	L213-5770016MDE001
2700	80	4353	4724	152	E	L213-2780016MDE001
3000	80	4471	4932	159	E	L213-3080016MDE001
4000	80	4759	5317	171	E	L213-4080016MDE001

Notes:

1. Lumileds maintains a tolerance of ±2 on CRI and ±6.5% on luminous flux measurements.
2. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.