





# **LUXEON XR-5050 SQR**

High performance LED modules with extreme efficacy for robust lighting designs



LUXEON XR-5050 SQR 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 or 16 LUXEON 5050 Square LEDs on a MCPCB substrate, electrical connectors, and are designed for ease of system integration, faster time to market, and use with industry standard optics. LUXEON XR-5050 SQR is a complete solution when used in combination with standard third party optics and heatsinks.

# **FEATURES AND BENEFITS**

Efficacy and luminous flux of up to 186lm/W and 5770lm available

Available CCT/CRI combinations: 70CRI (2200K, 2700K, 3000K, 4000K and 5000K) and 80CRI (2700K, 3000K and 4000K)

Superior board level color control of ≤ 3SDCM

Excellent case to heatsink thermal resistance of  $3.5 \text{K/W}_{th}$ 

Design compatible with standard third party optics

Features LUXEON 5050 SQR LEDs with industry-leading efficacy and lumens in multi-die, high power package

5-year guarantee

# **PRIMARY APPLICATIONS**

High Bay

Low Bay

**Urban Streetlights** 









LUXEON XR-5050 SQR product performance at 700mA, T<sub>c</sub> =85°C.

NOMINAL CCT	MINIMUM CRI [1, 2]	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS	ENERGY	
		MINIMUM	TYPICAL	EFFICACY (lm/W)	EFFICIENCY CLASS	PART NUMBER
			700mA	·		
2200	70	2272	2450	158	Е	L213-2270008MRH001
2700	70	2477	2706	174	D	L213-2770008MRH001
3000	70	2563	2778	179	D	L213-3070008MRH001
4000	70	2664	2885	186	D	L213-4070008MRH001
5000	70	2545	2885	186	D	L213-5070008MRH001
2700	80	2210	2374	153	Е	L213-2780008MRH001
3000	80	2272	2494	161	Е	L213-3080008MRH001
4000	80	2366	2609	168	Е	L213-4080008MRH001
2200	70	3409	3675	158	Е	L213-2270012MRH001
2700	70	3716	4060	174	D	L213-2770012MRH001
3000	70	3844	4167	179	D	L213-3070012MRH001
4000	70	3996	4327	186	D	L213-4070012MRH001
5000	70	3818	4327	186	D	L213-5070012MRH001
2700	80	3315	3561	153	Е	L213-2780012MRH001
3000	80	3409	3741	161	Е	L213-3080012MRH001
4000	80	3549	3913	168	E	L213-4080012MRH001
2200	70	4545	4900	158	Е	L213-2270016MRH001
2700	70	4955	5413	174	D	L213-2770016MRH001
3000	70	5126	5556	179	D	L213-3070016MRH001
4000	70	5328	5770	186	D	L213-4070016MRH001
5000	70	5091	5770	186	D	L213-5070016MRH001
2700	80	4420	4748	153	Е	L213-2780016MRH001
3000	80	4545	4988	161	Е	L213-3080016MRH001
4000	80	4732	5218	168	E	L213-4080016MRH001

©2023 Lumileds Holding B.V. All rights reserved. LUXEON is a registered trademark of the Lumileds Holding B.V. in the United States and other countries.

lumileds.com

Neither Lumileds Holding B.V. nor its affiliates shall be liable for any kind of loss of data or any other damages, direct, indirect or consequential, resulting from the use of the provided information and data. Although Lumileds Holding B.V. and/or its affiliates have attempted to provide the most accurate information and data, the materials and services information and data are provided "as is," and neither Lumileds Holding B.V. nor its affiliates warrants or guarantees the contents and correctness of the provided information and data. Lumileds Holding B.V. and its affiliates reserve the right to make changes without notice. You as user agree to this disclaimer and user agreement with the download or use of the provided materials, information and data. A listing of Lumileds product/patent coverage may be accessed at lumileds.com/patents.

<sup>1.</sup> Lumileds maintains a tolerance of ±2 on CRI and ±7% on luminous flux measurements.
2. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.