

Standard Cree L2 LED Modules

Product Overview

Power of Cree XHP Series in Standard and Custom LED modules

Illumination Accelerated

- Design Faster** – use standard, UL-listed modules
- Superior Performance & Cost** – top flux bin LEDs at competitive prices
- Thermal Interface Included** – pre-installed to simplify assembly
- Add Standard Optics** – configured for off-the-shelf optics

Primary Applications



High Mast	Canopy
Streetlight	Garage
Stadium	Portable
Architectural	High bay



Superior Performance in Standard & Custom Modules

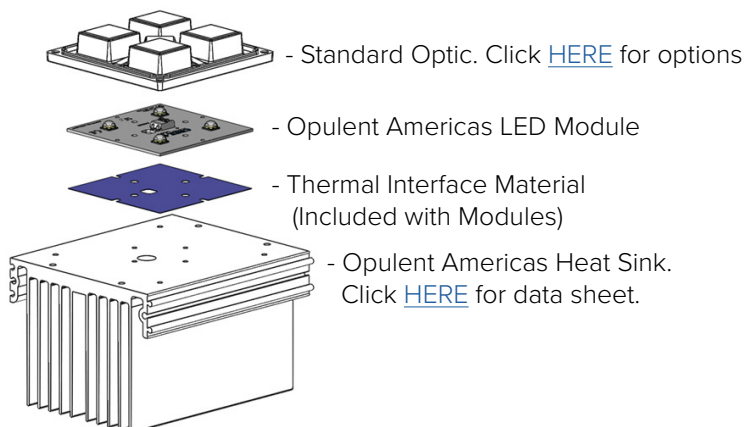
- Market leading L90 & L70 lifetimes, even in high stress conditions
- 70, 80, and 90 CRI LEDs available
- Metal core PCB for optimal thermal management
- Configurable with off the shelf optics, and heat sinks
- Private label or custom designs available

Simplify Your Next Design

The Cree standard modules, built with Cree SC5 technology, are an off-the-shelf platform to rapidly move from prototype to finished LED lighting fixture. These versatile building blocks are UL-listed and include Cree XP-G3 and MHD-G LEDs in square or rectangle formats. The thermal interface is already installed with easy to use connectors to help simplify the lighting design and get to market faster. These competitively priced modules come in a range of lumen outputs and can achieve both DLC Premium or DLC Standard lumens per watt specifications.

Integrate Further

Opulent Americas also offers standard heat sinks and fully assembled IP-rated modules.


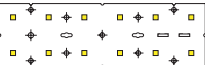


About Opulent Americas

Opulent Americas, part of Singapore based Opulent Group, is a fully integrated, global manufacturer for the lighting, automotive and medical industries. Through 30 years of manufacturing experience and state-of-the-art facilities, the company offers leading solid state lighting components and modules. The NC-based office provides quick engineering & sales support with an R&D lab to provide prototype development and custom solutions. See Opulent-Americas.com for more information.

Cree Standard LED Modules from Opulent Americas


XP-G3 Series Product Selection Table

Configuration	LED Layout	Part Number	CCT	CRI	Binning	Luminous Flux (lm)		Efficacy Nominal (lm/W)	Watts (W)	
						Nominal	Max		Nominal	Max
	2x2	LSR1-04C32-2780-00	2700K	80	5-Step	556	2374	145	3.8	24.5
	2x2	LSR1-04C32-3070-00	3000K	70	5-Step	624	2665	163	3.8	24.5
	2x2	LSR1-04C32-4070-00	4000K	70	5-Step	656	2802	171	3.8	24.5
	2x2	LSR1-04C32-5070-00	5000K	70	5-Step	656	2802	171	3.8	24.5
	2x2	LSR1-04C32-5770-00	5700K	70	5-Step	656	2802	171	3.8	24.5
	2x6	LSR1-12C32-2780-00	2700K	80	5-Step	1668	7123	145	11.5	73.4
	2x6	LSR1-12C32-3070-00	3000K	70	5-Step	1872	7995	163	11.5	73.4
	2x6	LSR1-12C32-4070-00	4000K	70	5-Step	1968	8405	171	11.5	73.4
	2x6	LSR1-12C32-5070-00	5000K	70	5-Step	1968	8405	171	11.5	73.4
	2x6	LSR1-12C32-5770-00	5700K	70	5-Step	1968	8405	171	11.5	73.4

⁽¹⁾ Product performance at 350mA T_j = 85°C.

⁽²⁾ Cree XLamp XP-G3 LED order codes specify only a minimum flux bin and not a maximum. Opulent Americas may ship modules in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity bin restrictions specified by the order code.

MHD-G Series Product Selection Table

Configuration	LED Layout	Part Number	CCT	CRI	Binning	Luminous Flux (lm)		Efficacy Nominal (lm/W)	Watts (W)	
						Nominal	Max		Nominal	Max
	2x2	LVS1-04C05-2780-00	2700K	80	3-Step	5160	6796	101.3	50.96	76
	2x2	LVS1-04C05-3080-00	3000K	80	3-Step	5520	7272	108.3	50.96	76
	2x2	LVS1-04C05-4070-00	4000K	70	5-Step	5940	7824	116.6	50.96	76
	2x2	LVS1-04C05-5070-00	5000K	70	5-Step	6360	8376	124.8	50.96	76
	2x2	LVS1-04C05-5770-00	5700K	70	5-Step	6360	8376	124.8	50.96	76

⁽¹⁾ Nominal product performance at 700mA T_j = 85°C.

⁽²⁾ Cree XLamp MHD-G LED order codes specify only a minimum flux bin and not a maximum. Opulent Americas may ship modules in flux bins higher than the minimum specified by the order code without advance notice. Shipments will always adhere to the chromaticity bin restrictions specified by the order code.