



## Performance Cree L2 LED Modules

Power of Cree XHP Series in Standard and Custom LED modules

# Product Overview

### 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

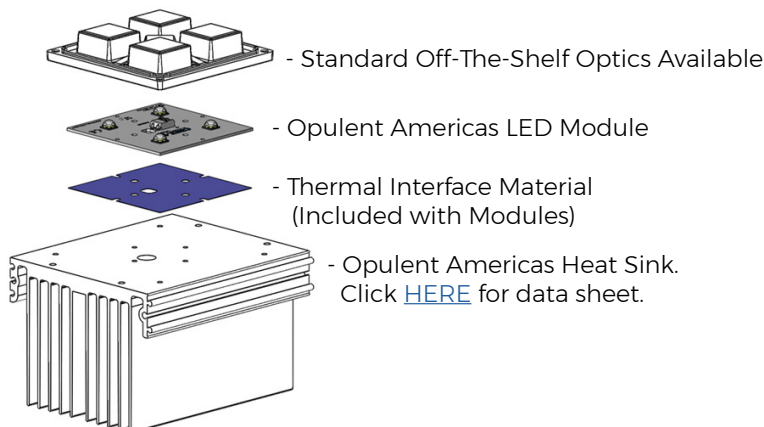
- Market leading L90 & L70 lifetimes, even in high stress conditions
- 70, 80, and 90 CRI LEDs available
- Metal core PCB for optimal thermal management
- Configurable with off the shelf optics, and heat sinks
- Private label or custom designs available

### Simplify Your Next Design

The Cree performance 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 XHP35, XHP50 & XHP70 LEDs in square, linear 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.



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
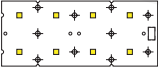
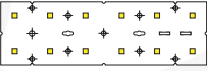
### About Opulent Americas

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](http://Opulent-Americas.com) for more information.




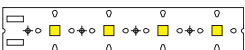



# Cree Performance LED Modules from Opulent Americas






## XHP35 Series Product Selection Table

Configuration	LED Layout	CCT	Luminous Flux (lm)		Efficacy Nominal (lm/W)	Watts (W)	
			Nominal	Max		Nominal	Max
 Rectangular	2x2	2700K, 3000K, 4000K, 5000K, 5700K	2540	6065	161	16	51
 Rectangular	2x4	2700K, 3000K, 4000K, 5000K, 5700K	5080	12131	161	32	98
 Rectangular	2x6	2700K, 3000K, 4000K, 5000K, 5700K	7620	18197	161	48	98

## XHP50 Series Product Selection Table

Configuration	LED Layout	CCT	Luminous Flux (lm)		Efficacy Nominal (lm/W)	Watts (W)	
			Nominal	Max		Nominal	Max
 Square	Single	2700K, 3000K, 4000K, 5000K, 5700K	1120	2072	139	8	18
 Linear	1x2	2700K, 3000K, 4000K, 5000K, 5700K	2240	4145	139	16	36
 Linear	1x3	2700K, 3000K, 4000K, 5000K, 5700K	3360	6217	139	24	54
 Linear	1x4	2700K, 3000K, 4000K, 5000K, 5700K	4480	8290	139	32	72
 Square	2x2	2700K, 3000K, 4000K, 5000K, 5700K	4480	8290	139	32	72

## XHP70 Series Product Selection Table

Configuration	LED Layout	CCT	Luminous Flux (lm)		Efficacy Nominal (lm/W)	Watts (W)	
			Nominal	Max		Nominal	Max
 Square	Single	2700K, 3000K, 4000K, 5000K, 5700K	1710	3270	140	12.1	30
 Linear	1x2	2700K, 3000K, 4000K, 5000K, 5700K	3420	6541	140	24.2	60
 Linear	1x3	2700K, 3000K, 4000K, 5000K, 5700K	5130	9811	140	36.3	90
 Linear	1x4	2700K, 3000K, 4000K, 5000K, 5700K	6840	13081	140	48.4	98
 Square	2x2	2700K, 3000K, 4000K, 5000K, 5700K	6840	13081	140	48.4	98

All values above are calculated at the nominal and maximum drive currents per the data sheet  
Luminous flux (lm) and efficacy (lm/W) values are based on 5000K, 70CRI, T<sub>j</sub> = 85°C