

# Cree XHP Series LED Module Product Overview

## Power of Cree in Standard and Custom LED Modules

### Illumination Accelerated

Use fewer LEDs with smaller modules  
 Reduce system size  
 Reduce overall system cost  
 Decrease design time  
 Utilize standard optics & heat sinks  
 Thermal Interfaces included



### Primary Applications



Architectural  
 High bay & low bay  
 Outdoor  
 • Streetlight  
 • Stadium

Built with proven Cree Extreme High Power SC5 LED Technology, the Cree XHP Series of LED modules from Opulent North America deliver twice the lumen output with improved reliability to enable up to 40% lower system cost. Lighting manufacturers can now drastically reduce the size and cost of their lighting system by using smaller modules with fewer, more-reliable Cree LEDs to achieve the same brightness.

### Simplify Your Next Design

The Cree XHP Series of LED Modules simplify and shorten your design cycle. Available in three models, the Cree XHP35, XHP50, and XHP70 LED Modules are versatile building blocks that provide design flexibility for lighting systems. These off-the-shelf configurations are tested, making it easier than ever to integrate Cree technology into any lighting design while decreasing your time-to-market and overall lighting system cost.


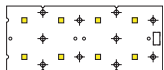
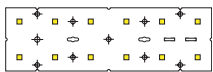
### Superior Performance in Standard Modules

- Cree SC5 Technology
- Excellent L90 & L70 lifetimes, even in high stress conditions
- 70, 80, and 90 CRI available
- Metal Core PCB for optimal thermal dissipation
- Configurable with off-the-shelf optics, thermal interfaces & heat sinks






Cree XHP Series LED modules are available from authorized distributors, see [Opulent-NA.com](http://Opulent-NA.com) for our complete list of distributors. Custom LED modules are also available, contact Opulent North America for further details.

# Cree XHP Series LED Modules from Opulent NA






## XHP35 Series

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

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

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