

CLM/CXM/CHM-6 COB Array Product Family White LEDs



Description

XNOVA™ chip-on-board (COB) arrays are optimized to provide outstanding quality of light for spot lighting and directional applications where flux density, high CRI, and outstanding efficacy are essential. The CLM/CXM/CHM-6 product family is designed for small directional bulbs, such as the popular MR16, and fixtures with flux output ranging from 300 to over 1,000 lumens. Efficacy over 110 lumens per watt (LPW) provides energy savings, and CRI as high as 97 delivers brilliant color rendering for the most demanding applications. XNOVA™ COBs enable outstanding directional lighting with tight color control, the highest efficacy, UL approved safety, and LM-80 verified

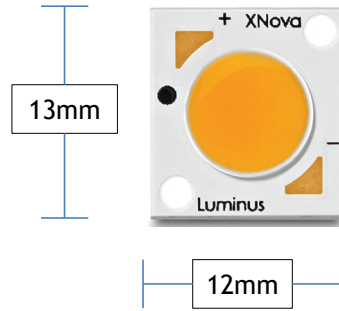
Features

- Wide range of lumen packages
 - < 300 lm to >1,000 lumen, 3000K, 85°C
- High Lumen per Watt
 - 120 LPW at 3000K, 25°C
 - 135 LPW at 5000K, 25°C
- 2700K, 3000K, 3500K, 4000K, 5000K and 6500K
 - CRI 95 and 90 min. in most colors
- High temperature (85°C) binning
 - Predictable color and light flux output
- 3-step MacAdam ellipse chromaticity binning standard, 2-step option
 - Most stable color control

Applications

- Spot and Track Lighting
- Shop and Retail Lighting
- Directional with high color rendering
- Hospitality and office space
- MR 16
- GU 10





Product Performance - CXM/CHM-6, 36V; CLM-6, 27V; $T_j = 85^\circ\text{C}$

Product	Drive Current (Typical)	Power (Typical)	CRI	CCT (K)	Lumen 1x (85°C)	LPW 1x (85°C)	Lumen 1.5x (85°C)	LPW 1.5x (85°C)	Lumen 2x (85°C)	LPW 2x (85°C)
CLM-6	120mA	3.24W (27V)	80	2700	315	91	441	85	567	82
				3000	330	96	462	89	594	86
				5000	370	107	518	100	666	97
CXM-6	120mA	4.2W	80	2700	440	105	616	98	792	94
				3000	470	112	658	104	846	101
				5000	515	123	721	114	927	110
CHM-6	160mA	5.6W	80	2700	580	104	812	97	1,044	93
				3000	615	110	861	103	1,107	99
				5000	670	120	938	112	1,206	108

Product CCT and CRI Combinations

CRI	2700K	3000K	3500K	4000K	5000K	6500K
80	Available					
90	Available					Not Available
95	Available		Not Available			

Product Voltage Options

Product	27V	36V	18V	9V
CLM-6	Available	Not Available	Available	Not Available
CXM-6	Not Available	Available	Available	Not Available
CHM-6	Not Available	Available	Not Available	Available

Where to Buy

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