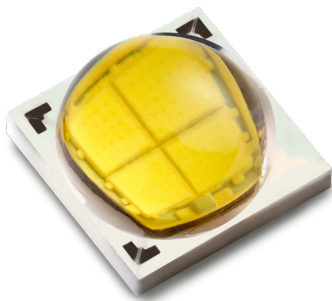




LUXEON M

Brightest, most uniform and highest efficacy multi-die emitter



LUXEON M is designed to enable outdoor and industrial applications targeting either high efficiency or low cost. With *Freedom from Binning* and leading performance, LUXEON M falls within a single 3- or 5-step MacAdam ellipse to ensure color consistency from LED to LED, delivering high efficacy and high flux density from a uniform source with tight correlated color temperature control. The superior quality of light, volume of lumens, and real world efficacy enable leading performance and efficient solution development in a wide variety of lighting segments.

FEATURES AND BENEFITS

Uniform image enables tight beam control in MR16 and spotlight applications

High flux density from a 3mm² area enables reduced emitter count and compact fixture designs

11.2V, 5.6V and 2.8V package options puts high performance within reach with high efficiency and low cost drivers

Leading thermal resistance allows flexible system design to optimize for lm/\$ and lm/W

Exceeds ENERGY STAR® lumen maintenance requirements

PRIMARY APPLICATIONS

Architectural

High Bay & Low Bay

Lamps

Outdoor

Specialty Lighting

Spotlights

LUXEON M White product performance at test current, $T_j=85^\circ\text{C}$.

VOLTAGE	NOMINAL CCT [2]	MINIMUM CRI	LUMINOUS FLUX ⁽¹⁾ (lm)		TEST CURRENT (mA)	PART NUMBER	
			MINIMUM	TYPICAL			
12V	3000K	70	900	1000	700	LXR7-SW30	
	4000K	70	970	1076	700	LXR7-SW40	
	5000K	70	1040	1100	700	LXR7-SW50	
	5700K	70	1040	1110	700	LXR7-SW57	
	6500K	70	1040	1130	700	LXR7-SW65	
	2700K	80	730	800	700	LXR8-SW27	
	3000K	80	780	850	700	LXR8-SW30	
	3500K	80	780	870	700	LXR8-SW35	
	4000K	80	840	905	700	LXR8-SW40	
	5000K	80	840	920	700	LXR8-SW50	
	2700K	90	600	660	700	LXR9-SW27	
	3000K	90	640	736	700	LXR9-SW30	
	5700K	90	800	880	700	LXR9-SW57	
	6V	3000K	70	900	1000	1400	LXR7-RW30
		4000K	70	970	1076	1400	LXR7-RW40
5000K		70	1040	1100	1400	LXR7-RW50	
5700K		70	1040	1110	1400	LXR7-RW57	
6500K		70	1040	1130	1400	LXR7-RW65	
2700K		80	730	800	1400	LXR8-RW27	
3000K		80	780	850	1400	LXR8-RW30	
3500K		80	780	870	1400	LXR8-RW35	
4000K		80	840	920	1400	LXR8-RW40	
5000K		80	840	920	1400	LXR8-RW50	
2700K		90	600	660	1400	LXR9-RW27	
3000K		90	640	736	1400	LXR9-RW30	
5700K		90	800	880	1400	LXR9-RW57	
3V		3000K	70	900	1000	2800	LXR7-QW30
		4000K	70	970	1076	2800	LXR7-QW40
	5000K	70	1040	1100	2800	LXR7-QW50	
	5700K	70	1040	1110	2800	LXR7-QW57	
	6500K	70	1040	1130	2800	LXR7-QW65	
	2700K	80	730	800	2800	LXR8-QW27	
	3000K	80	780	850	2800	LXR8-QW30	
	3500K	80	780	870	2800	LXR8-QW35	
	4000K	80	840	920	2800	LXR8-QW40	
	5000K	80	840	920	2800	LXR8-QW50	
	2700K	90	600	660	2800	LXR9-QW27	
	3000K	90	640	736	2800	LXR9-QW30	
	5700K	90	800	880	2800	LXR9-QW57	

Notes:

1. Lumileds maintains a tolerance of $\pm 6.5\%$ on flux measurements.
2. Correlated color temperature is based upon mounted die on highly reflective surface at $T_j=25^\circ\text{C}$.

LUXEON M Royal Blue product performance at test current, $T_j=85^\circ\text{C}$.

VOLTAGE	DOMINANT WAVELENGTH (nm)		RADIOMETRIC POWER (mW)		TEST CURRENT (mA)	PART NUMBER
	MINIMUM	MAXIMUM	MINIMUM	TYPICAL		
12V	445	460	4200	4500	700	LXR0-SR00
6V	445	460	4200	4500	1400	LXR0-RR00
3V	445	460	4200	4500	2800	LXR0-QR00

Notes:

1. Lumileds maintains a tolerance of $\pm 6.5\%$ on radiometric power measurements.