











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

Leading thermal resistance allows flexible system design to optimize for $\mbox{Im}/\mbox{\$}$ and $\mbox{Im}/\mbox{\$}$

Exceeds ENERGY STAR® lumen maintenance requirements

PRIMARY APPLICATIONS

Architectural
High Bay & Low Bay
Lamps
Outdoor
Specialty Lighting
Spotlights

LUXEON M White product performance at specified test current, T₁=85°C.

VOLTAGE	NOMINAL CCT [2]	MINIMUM CRI	LUMINOUS FLUX[1] (lm)		TEST CURRENT	PART NUMBER	
			MINIMUM	TYPICAL	(mA)	PART NUMBER	
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	

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_i=25°C.

LUXEON M Royal Blue product performance at specified test current, T_i=85°C.

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

Notes:

Lumileds maintains a tolerance of ±6.5% on radiometric power measurements.

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