



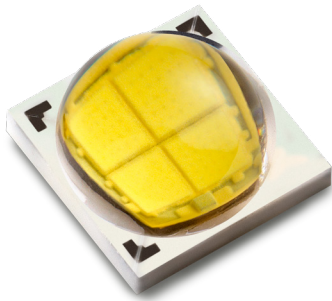
THE DATASHEET OF LMZ8-SW30





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.

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 [Lumileds Information](#)

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