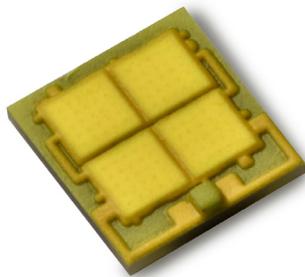




LUXEON MZ

Best combination of brightness, uniformity and luminance enabling precision light control



LUXEON MZ is a multi-die LED designed to enable outdoor and industrial applications with all of the features of LUXEON M including an identical solder footprint, but allowing for tighter beam control and higher punch due to a smaller apparent source size. LUXEON MZ falls within a single 3- or 5-step MacAdam ellipse centered in ANSI to ensure color consistency from LED to LED. 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

- Undomed package for improved punch and exceptional luminance
- Common footprint as LUXEON M for compatibility with existing designs
- Industry leading 11.2V package delivers exceptional efficacy
- Leading thermal resistance enables flexible system design to optimize for lm/\$ and lm/W
- Exceeds ENERGY STAR® lumen maintenance requirements

PRIMARY APPLICATIONS

- High Bay & Low Bay
- Lamps
- Outdoor
- Specialty Lighting
- Spotlights

LUXEON MZ White product performance at test current, T_j=85°C.

VOLTAGE	NOMINAL CCT [2]	MINIMUM CRI	LUMINOUS FLUX [1] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	PART NUMBER	
			MINIMUM	TYPICAL				
12V	3000K	70	805	840	100	700	LMZ7-SW30	
	4000K	70	870	940	112	700	LMZ7-SW40	
	5000K	70	870	950	113	700	LMZ7-SW50	
	5700K	70	900	980	117	700	LMZ7-SW57	
	6500K	70	900	980	117	700	LMZ7-SW65	
	2700K	80	710	760	90	700	LMZ8-SW27	
	3000K	80	730	781	93	700	LMZ8-SW30	
	3500K	80	730	800	95	700	LMZ8-SW35	
	4000K	80	840	880	105	700	LMZ8-SW40	
	5000K	80	840	890	106	700	LMZ8-SW50	
	2700K	90	560	600	71	700	LMZ9-SW27	
	3000K	90	600	640	76	700	LMZ9-SW30	
	5700K	90	700	770	92	700	LMZ9-SW57	
	6V	3000K	70	805	840	100	1400	LMZ7-RW30
		4000K	70	870	940	112	1400	LMZ7-RW40
5000K		70	870	950	113	1400	LMZ7-RW50	
5700K		70	900	980	117	1400	LMZ7-RW57	
6500K		70	900	980	117	1400	LMZ7-RW65	
2700K		80	710	760	90	1400	LMZ8-RW27	
3000K		80	730	781	93	1400	LMZ8-RW30	
3500K		80	730	800	95	1400	LMZ8-RW35	
4000K		80	840	880	105	1400	LMZ8-RW40	
5000K		80	840	890	106	1400	LMZ8-RW50	
2700K		90	560	600	71	1400	LMZ9-RW27	
3000K		90	600	640	76	1400	LMZ9-RW30	
5700K		90	700	770	92	1400	LMZ9-RW57	
3V		3000K	70	805	840	100	2800	LMZ7-QW30
		4000K	70	870	940	112	2800	LMZ7-QW40
	5000K	70	870	950	113	2800	LMZ7-QW50	
	5700K	70	900	980	117	2800	LMZ7-QW57	
	6500K	70	900	980	117	2800	LMZ7-QW65	
	2700K	80	710	760	90	2800	LMZ8-QW27	
	3000K	80	730	781	93	2800	LMZ8-QW30	
	3500K	80	730	800	95	2800	LMZ8-QW35	
	4000K	80	840	880	105	2800	LMZ8-QW40	
	5000K	80	840	890	106	2800	LMZ8-QW50	
	2700K	90	560	600	71	2800	LMZ9-QW27	
	3000K	90	600	640	76	2800	LMZ9-QW30	
	5700K	90	700	770	92	2800	LMZ9-QW57	

Notes:

1. Lumileds maintains a tolerance of ±6.5% on flux measurements.
2. Correlated color temperature is based upon mounted die on highly reflective surface at T_j=25°C.

LUXEON MZ Royal Blue product performance at test current, T_j=85°C.

VOLTAGE	DOMINANT WAVELENGTH (nm)		RADIOMETRIC POWER (mW)		TEST CURRENT (mA)	PART NUMBER
	MINIMUM	MAXIMUM	MINIMUM	TYPICAL		
12V	445	460	3500	3600	700	LMZ0-SR00
6V	445	460	3500	3600	1400	LMZ0-RR00
3V	445	460	3500	3600	2800	LMZ0-QR00

Notes:

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