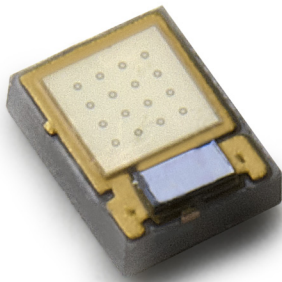




LUXEON Z UV

Superior flux density, efficiency and design freedom — in the industry's only micro-package UV LED



At 1/5th the size of other ultraviolet and violet LEDs, LUXEON Z UV LEDs, a SMT device, can be assembled in tight arrays with spacing of only 200 microns, which enables high power density (W/cm^2) system for superior efficiency and design freedom. The product is undomed for precise optical control, and a portfolio covering ultraviolet and violet light. The superior quality of light, volume of lumens, and real world efficacy enable leading performance and efficient solution development in a wide variety of indoor and outdoor lighting segments.

FEATURES AND BENEFITS

Offering ultraviolet in 380–400nm and violet (400–430nm) for a range of options

Small 2.2mm² SMT footprint enables highest W/cm^2 systems, design flexibility

1A max drive current allows more flux per LED

Up to 45%+ efficiency reduces heat output

AIN package of as low as 3.5 K/W for better thermal management

PRIMARY APPLICATIONS

Specialty Lighting

LUXEON Z UV product performance at 500mA, T_j=25°C.

WAVELENGTH BIN [1]	RADIOMETRIC POWER ^[2] (mW)		TYPICAL RADIOMETRIC POWER (mW)	PART NUMBER
	MINIMUM	TYPICAL		
	500mA		1000mA	
380-385nm	150	175	370	LHUV-0380-0150
	200	225	475	LHUV-0380-0200
	250	275	580	LHUV-0380-0250
	300	325	685	LHUV-0380-0300
385-390nm	200	225	470	LHUV-0385-0200
	250	275	570	LHUV-0385-0250
	300	325	675	LHUV-0385-0300
	350	375	780	LHUV-0385-0350
390-395nm	300	330	695	LHUV-0390-0300
	350	375	790	LHUV-0390-0350
	400	425	900	LHUV-0390-0400
	450	470	1000	LHUV-0390-0450
395-400nm	350	375	765	LHUV-0395-0350
	400	425	870	LHUV-0395-0400
	450	475	970	LHUV-0395-0450
	500	525	1075	LHUV-0395-0500
400-405nm	400	435	875	LHUV-0400-0400
	450	475	960	LHUV-0400-0450
	500	525	1055	LHUV-0400-0500
405-410nm	500	525	1005	LHUV-0405-0500
	550	575	1100	LHUV-0405-0550
	600	625	1195	LHUV-0405-0600
	650	675	1295	LHUV-0405-0650
410-415nm	500	525	985	LHUV-0410-0500
	550	575	1080	LHUV-0410-0550
	600	625	1160	LHUV-0410-0600
	650	675	1255	LHUV-0410-0650
415-420nm	550	575	1070	LHUV-0415-0550
	600	625	1160	LHUV-0415-0600
	650	675	1250	LHUV-0415-0650
420-425nm	550	575	1060	LHUV-0420-0550
	600	625	1150	LHUV-0420-0600
	650	675	1245	LHUV-0420-0650
425-430nm	550	575	1070	LHUV-0425-0550
	600	625	1165	LHUV-0425-0600
	650	675	1260	LHUV-0425-0650

Notes:

1. Lumileds maintains a tolerance of ±10% on flux measurements.
2. Correlated color temperature is based upon mounted die on highly reflective surface at T_j=25°C.