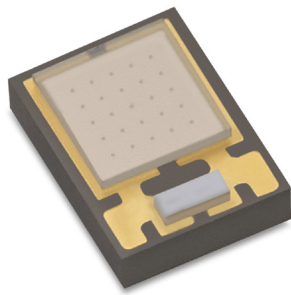




LUXEON UV U1

Highest power density, superior efficiency, powered by leading Chip Scale Package (CSP) technology



At 1/5th the size of other ultraviolet and violet LEDs, LUXEON UV U1 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 power density, excellent robustness of CSP technology, and real world efficacy enable leading performance and efficient solution development in a wide variety of UV specialty lighting applications.

FEATURES AND BENEFITS

Offering ultraviolet in 380-400nm and violet (400-420nm) for a range of options

Small 2.2mm² SMT footprint enables highest W/cm^2 power density, design freedom

1A max drive current allows more power per LED

Up to 50%+ efficiency reduces heat output

AlN package R_{th} as low as 3.5 K/W for better thermal management

PRIMARY APPLICATIONS

Specialty Lighting

- Analytical Instrumentation
- Curing
- Medical
- Security
- UV Photoreaction

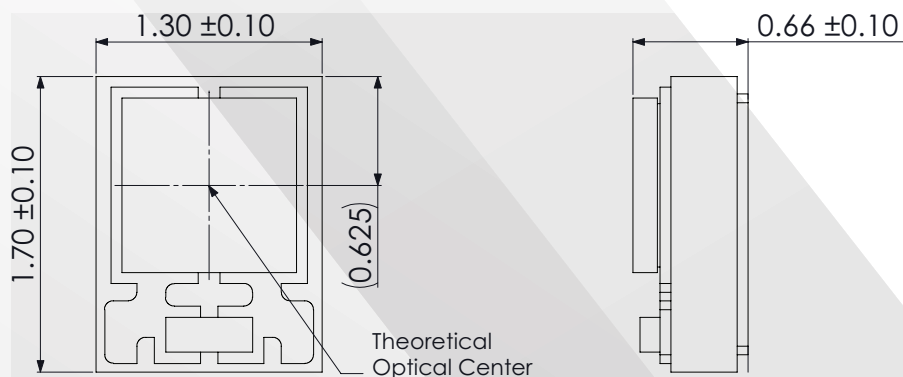
LUXEON UV U1 product performance at 500mA and 1000mA, T_j=25°C.

PEAK WAVELENGTH ^[1]	TYPICAL RADIOMETRIC POWER ^[2] (mW)		PART NUMBER
	500mA	1000mA	
415 ±5nm	575	1093	LHUV-0415-A055
	625	1188	LHUV-0415-A060
	675	1283	LHUV-0415-A065
	725	1378	LHUV-0415-A070
405 ±5nm	575	1093	LHUV-0405-A055
	625	1188	LHUV-0405-A060
	675	1283	LHUV-0405-A065
	725	1378	LHUV-0405-A070
395 ±5nm	525	998	LHUV-0395-A050
	575	1093	LHUV-0395-A055
	625	1188	LHUV-0395-A060
385 ±5nm	675	1283	LHUV-0395-A065
	275	523	LHUV-0385-A025
	325	618	LHUV-0385-A030
	375	713	LHUV-0385-A035
	425	808	LHUV-0385-A040
	475	903	LHUV-0385-A045
	525	998	LHUV-0385-A050
	575	1093	LHUV-0385-A055

Notes:

1. Lumileds maintains a tolerance of ±2nm for peak wavelength measurements.
2. Lumileds maintains a tolerance of ±10% for radiometric power measurements.

Mechanical Dimensions.



Notes:

1. Drawings are not to scale.
2. All dimensions are in millimeters.

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