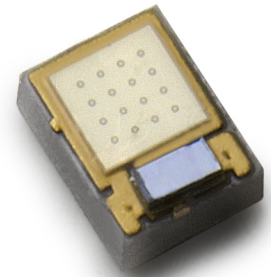


LUXEON UV

Superior Flux Density, Efficiency and Design Freedom
– in the Industry's Only Micro-Package UV LED



At 1/5 the size of other ultraviolet and violet LEDs, LUXEON® UV is the industry's smallest footprint high-power emitter. LUXEON UV LEDs can be assembled in tight arrays with spacing of only 200 microns, which enables highest power density (W/cm^2) systems. The product delivers superior efficiency, undomed for precise optical control, and a portfolio covering ultraviolet (380-400nm) and violet (400-430nm) light.

Features

- 2.2mm² micro footprint
- 1A max drive current
- AlN substrate
- Up to 45+% wall plug efficiency
- Undomed

Benefits

- Industry's highest array W/cm^2
- More flux per LED
- R_{th} as low as 3.5 K/W
- Less heat to manage
- Precise optical control

Key Applications

- Curing
- Medical
- Scientific
- Security/Forensic
- Specialty Lighting

Product Selection Guide, 25°C

Wavelength Bin [1]	Part Number	Typ V _f , V	Typ Radiometric Power, mW		Peak Wall-Plug Efficiency, %	Package [2] W/cm ²
		500 mA	500 mA	1000 mA		
380-385nm	LHUV-0380-0150	3.2	175	370	12	17
	LHUV-0380-0200		225	475	15	22
385-390nm	LHUV-0385-0200	3.1	225	470	15	21
	LHUV-0385-0250		275	570	18	26
390-395nm	LHUV-0390-0300	3.1	330	695	22	32
	LHUV-0390-0350		375	790	25	36
	LHUV-0390-0400		425	900	29	41
	LHUV-0390-0450		470	1000	32	45
395-400nm	LHUV-0395-0350	3.1	375	765	25	35
	LHUV-0395-0400		425	870	28	40
	LHUV-0395-0450		475	970	31	44
	LHUV-0395-0500		525	1075	35	49
400-405nm	LHUV-0400-0400	3.1	435	875	28	40
	LHUV-0400-0450		475	960	31	44
	LHUV-0400-0500		525	1055	34	48
405-410nm	LHUV-0405-0500	3.0	525	1005	35	46
	LHUV-0405-0550		575	1100	38	50
	LHUV-0405-0600		625	1195	41	54
	LHUV-0405-0650		675	1295	45	59
410-415nm	LHUV-0410-0500	3.0	525	985	35	45
	LHUV-0410-0550		575	1080	38	49
	LHUV-0410-0600		625	1160	41	53
	LHUV-0410-0650		675	1255	45	57
415-420nm	LHUV-0415-0550	3.0	575	1070	39	49
	LHUV-0415-0600		625	1160	42	53
	LHUV-0415-0650		675	1250	46	57
420-425nm	LHUV-0420-0550	3.0	575	1060	39	48
	LHUV-0420-0600		625	1150	42	52
	LHUV-0420-0650		675	1245	46	57
425-430nm	LHUV-0425-0550	3.0	575	1070	39	49
	LHUV-0425-0600		625	1165	42	53
	LHUV-0425-0650		675	1260	46	57

Notes:

1. Data based on 20 ms monopulse.
2. Power density over the package area. System level power density will vary depending on the packing density in application.
3. For complete product specifications and information please refer to the product technical datasheet, LUXEON UV DS114, available on the Philips Lumileds website.
4. WARNING: LUXEON UV products emit ultraviolet light. Do not look at operating LEDs. Eye injury may result. Use necessary skin and eye protection. Assume IEC62471 Risk Group 3.



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