

# High Current LED Dice

LED Dice with up to 3A/mm<sup>2</sup> from 390 to 640 nm



Light Avenue's high current LED dice show extremely high current densities at UV and visible wavelengths and emit all of the light through the top of the die with a Lambertian emission characteristics.



## Applications

- ✓ Projection
- ✓ Medical
- ✓ Illumination
- ✓ Industry
- ✓ Curing

## Features

- ✓ Highest luminous and radiant powers per 1mm<sup>2</sup>
- ✓ Highest current density up to 3A/mm<sup>2</sup>
- ✓ Available at 390 nm, 435 nm, 455 nm, 527 nm, 620 nm
- ✓ Die size around 40 × 47 mil<sup>2</sup>
- ✓ Highly optimized current distribution across the die
- ✓ Side bondbar
- ✓ No bondwire in the optical emission window
- ✓ Surface emitting die
- ✓ Gold backside
- ✓ UV, blue and green dice have the same design, red is different
- ✓ Maximum applicable current: 3A

PRODUCT	$\lambda_{\text{dom}}$ (nm)	$\lambda_{\text{p}}$ (nm)	$\Phi_{\text{e}}$ (mW)	$I_{\text{v}}$ (cd)	POLARITY	$I_{\text{meas}}$ (mA)
LA UX47WP6		390 - 400	1600 - 2000		p-side up	1000
LA EB47WP6	430 - 442.5		1600 - 2000		p-side up	1000
LA HB47WP6	440 - 457.5		1250 - 2000		p-side up	1000
LA SB47WP6	455 - 467.5		1250 - 2000		p-side up	1000
LA SG47WP6	520 - 537.5			80 - 160	p-side up	1000
LA RO46WP6	610 - 622.5			32 - 64	n-side up	1000
LA UR46WP6	620 - 632.5			32 - 64	n-side up	1000

Ask us for more details and get more information also about our overall product offer for LED bare dice, LED, LED modules, lasers and detectors. Experience our services like rapid prototyping, development and simulation of optics, LED chip sorting, quality measurement and more.... [www.light-avenue.com](http://www.light-avenue.com)