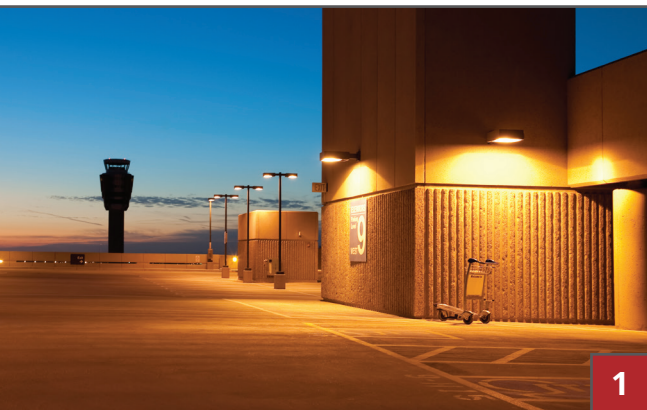


bridgelux®

SOLID STATE LIGHT SOURCES

High Quality Light with Plug & Play Simplicity





APPLICATIONS

1. Street and Area Lighting

The high light levels required by outdoor lighting, thousands to tens of thousands of lumens, are now achievable with as few as one Bridgelux Array. Significantly impacting the initial cost side of the equation, payback periods approaching two years are achievable – today. Bridgelux technology assures long life, and next generation optics for use with Bridgelux lighting products will deliver even beam patterns and lux levels while minimizing glare, light pollution and cost.

2. Retail and Hospitality Lighting

Boldly accent and highlight merchandise with high performance Bridgelux Arrays. Create ambience with striking contrast ratios without UV or IR in the beam by specifying the most compact and brightest solid state light sources in the industry into your optical design. Bridgelux lighting products can deliver bold spots or be easily softened to enable the development of sconces, pendants and other luminaires typically lamped with high-lumen gentle incandescent sources.

3. Industrial Lighting

Oil refineries, power generation plants, 24-7 factories and warehouses all share the need for dependable, efficient, high-output and long-life lighting. Bridgelux Arrays are often sealed inside industrial luminaires, where extended performance is required. With lumen packages up to 16,300 lumens, Bridgelux lighting products are a proven and easy to use light-source-of-choice for the industrial luminaire designers.

4. Replacement Lamps

With a focus on meeting strict energy compliance standards, performance and cost requirements, Bridgelux Arrays enable a new class of solid state MR16, GLS (A-19) and PAR lamps in the market. The compact light source, very low thermal resistance, and “by-design” lumen packages target the most popular lamps in the industry. They have led Bridgelux lighting products to be rapidly adopted as the “next generation” light source for a multitude of lamp types.

5. Commercial Lighting

Commercial lighting requires long life combined with stable and consistent performance over the life of the installation. Bridgelux Arrays are offered over a range of CRI, lumen levels and color temperatures to meet various application driven requirements. In particular, replacements for 2x26 Watt CFL down lights, 20-50 Watt metal halide based luminaires and smaller, sleeker next generation troffers with Bridgelux lighting products inside are already making their way to the market.

6. Architectural Lighting

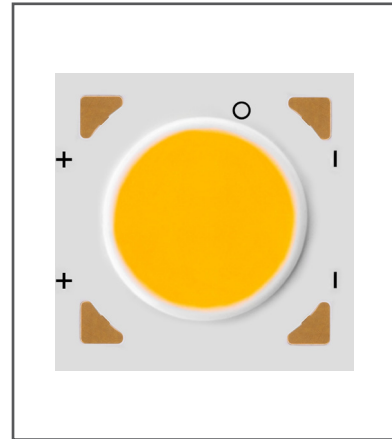
Down lights, accent lights and families of luminaires can be developed around a single flexible light source to deliver high quality lighting effects. Stable color control ensures the lighting experience is right from day one and for the life of the installation. With Bridgelux technology, lighting designers and end-users are now able to access the benefits of solid state lighting with the clean, sharp look and performance of high-end halogen, fluorescent and HID.

SOLID STATE LIGHT SOURCES

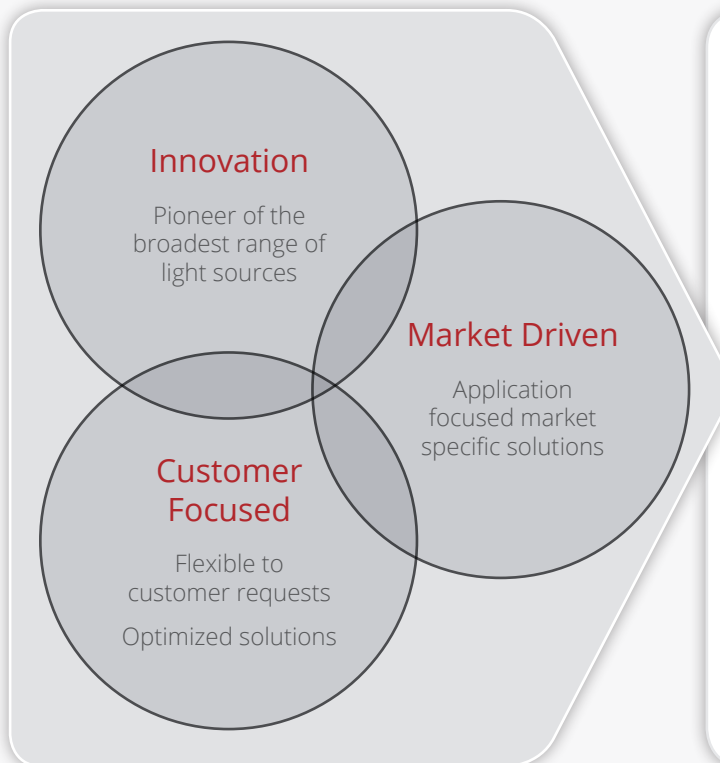
High Performance Light Sources



400 to 16,300 lumens of high quality light, in a single compact light source, easily integrated into a lamp or luminaire



THE BRIDGELUX ADVANTAGE



Reduced Time to Market

- › Array solutions significantly reduce OEM design risk
- › Plug and play design simplicity

Reduced Inventory Costs

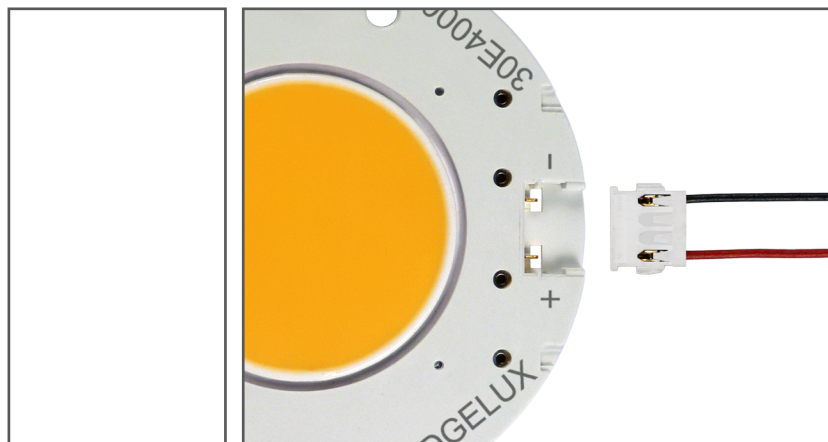
- › Integrated solution, no binning/inventory management required

Reduced Risk Exposure

- › Bridgelux products are reliability proven assemblies with a 5-year warranty

Simplified Upgrade/Product Life Cycle Management

- › Drop in replacements enable use of latest technology without massive redesign/reengineering efforts



BRIDGELUX VERO™ LED ARRAYS

Bridgelux Vero LED Arrays are a revolutionary advancement in chip on board (COB) light source design and provide unmatched flexibility and versatility to interior and exterior lighting applications.

The Vero LED Arrays simplify the luminaire design and manufacturing process and are engineered to reliably operate over a broad current range, improve light quality, promote ease of use, and provide a platform for future functionality integration.

The Vero Arrays are available in four light emitting surface (LES) configurations with a broad range of CCT and CRI options. 2 and 3 SDCM color control is standard for 2700K - 4000K options and the lumen output performance for Vero ranges from 400 to 16,300 lumens.

Quality lighting is made easy with Vero as it delivers increased lumen density and beam control with clean and consistent light uniformity. Vero also features an onboard connector port for solder-free plug & play connectivity to enable easy installation and field upgradability.

PRODUCT SELECTION GUIDE



Vero 10

Vero 13

Vero 18

Vero 29

Light Output (lms)

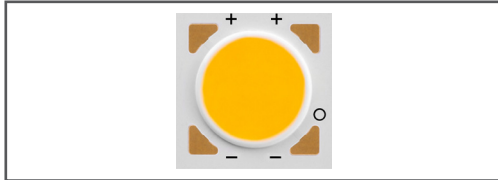
Typical CCT (K)	CRI	Nominal Current	Nominal Current	Nominal Current	Nominal Current
		350mA, 26.7V, 9.3W	500mA, 32.5V, 16.2W	1050mA, 29.5V, 31W	2100mA, 38.6V, 81W
2700K	80	1,080	1,880	3,650	9,380
	90	865	1,510	2,920	7,520
	97	690	1,210	2,340	-
3000K	80	1,120	1,950	3,780	9,740
	90	915	1,600	3,100	7,960
	97	755	1,310	2,550	-
3500K	80	1,160	2,020	3,920	10,100
4000K	80	1,180	2,060	3,990	10,260
5000K	70	1,305	2,270	4,400	11,340

Lumens

	Vero 10		Vero 13		Vero 18		Vero 29	
	5000K 70 CRI	3000K 80 CRI	5000K 70 CRI	3000K 80 CRI	5000K 70 CRI	3000K 80 CRI	5000K 70 CRI	3000K 80 CRI
	Minimum	465	400	810	700	1590	1370	4090
Maximum	2,420	2,080	4,390	3,770	8,170	7,020	16,260	13,960

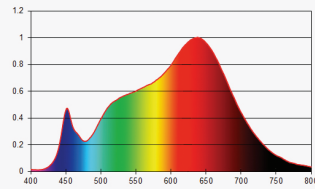
NOTES:

1. Typical values indicated at nominal current under pulsed measurement conditions, T_j = 25°C
2. Décor product option not available on Vero 29
3. Vero 10, Vero 13, Vero 18 can support up to 2x nominal current, while Vero 29 is limited to 1.5x nominal current



BRIDGELUX DÉCOR ARRAYS

The Bridgelux Décor Series delivers outstanding light quality with a very high Color Rendering Index (CRI) of Ra 97 (typical). They enable lighting designers to authentically render a full palette of colors over a wide range of light levels to create stunning and sophisticated lighting effects for retail, hospitality, museums and architectural lighting applications.



BRIDGELUX BXRA3 LED ARRAYS

Bridgelux BXRA3 LED Arrays are an energy efficient, compact and cost effective solid state lighting solution to enable lighting innovation. Performance options ranging from 500 to over 10,000 lumens are available in color temperatures from 2700K to 5600K with 3 SDCM color control. These industry favorite light sources can be readily designed into a wide range of directional and diffuse applications.

Typical CCT (K)	Minimum CRI	Light Output (lm)		
		ES Star	ES Rectangle	RS
2700K	80	580-850	980-2,300	2,900-7,320
	90	480-720	830-2,020	2,520-6,280
3000K	80	630-920	1,070-2,460	3,150-8,050
	90	530-780	900-2,080	2,790-6,800
3500K	80	N/A	1,130-2,610	3,280-8,530
4000K	80	680-1,030	1,200-2,800	3,530-9,010
5000K, 5600K	70	790-1,050	1,340-3,150	3,940-10,060

BRIDGELUX V SERIES™ LED ARRAYS

The V Series is a high performance, cost-optimized line of chip on board light sources designed for sub-1000 lumen commercial and residential lighting applications where tight beam control and high quality matter. These compact LED array sources deliver high performance technology that is leveraged from the highly successful Bridgelux Vero Series product line.

		Light Output (lm)					
		V6	V8	V10			
Typical CCT (K)	CRI	Nominal Current 175mA, 17.8 volts 350mA, 8.9 volts (3.1 watts)	Nominal Current 175mA, 35.6 volts 350mA, 17.8 volts (6.2 watts)	Nominal Current 350mA, 26.7 volts (9.4 watts)			
2700K	80	350	705	1055			
	90	280	565	845			
3000K	80	365	730	1095			
	90	300	595	895			
4000K	80	385	770	1155			
5000K	70	425	850	1275			
		Lumens					
		V6	V8	V10			
		3000 K 80 CRI	5000 K 70 CRI	3000 K 80 CRI	5000 K 70 CRI	3000 K 80 CRI	5000 K 70 CRI
Minimum		90	105	185	215	275	320
Maximum		645	755	1295	1505	1940	2260

NOTES:
1. Typical values indicated at nominal current under pulsed measurement conditions, Tj = 25°C



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