

## BRIDGELUX VERO™ SERIES LED ARRAYS

### Product Brief

Vero™ represents a revolutionary advancement in chip on board (COB) light source design. These new LED light sources simplify luminaire design and manufacturing processes, improve light quality, and define a platform for future functional integration.

Vero™ is available in four different LES (light emitting surface) configurations and has been engineered to reliably operate over a broad current range, enabling new degrees of flexibility in design optimization. These new arrays deliver increased lumen density to enable improved beam control and precision lighting with 2 and 3 SDCM color control standard for clean, consistent and uniform lighting.

Vero™ includes an on board connector port for solder free electrical interconnect and simple easy to use mounting features to enable plug-and-play installation.



# QUALITY LIGHTING MADE EASY

High Quality Light with Plug & Play Simplicity

## FEATURES

- › Market leading efficacy, 120 lm/W typical and 110 lm/W minimum\*
- › Lumen output ranges from 275 to as much as 16,300 lumens
- › Broad range of CCT options from 2700K to 5000K
- › CRI options include; minimum 70, 80, 90 for standard and 97 typical for Decor products
- › 2 and 3 SDCM color control for 2700K-4000K CCT
- › Reliable operation at up to 2X rated drive current
- › Radial die pattern and improved lumen density
- › Thermally isolated solder pads
- › Onboard connector port
- › Top side part number markings

## BENEFITS

- › Broad application coverage for interior and exterior lighting
- › Flexibility to meet application driven lighting design requirements
- › High quality true color reproduction
- › Uniform consistent white light
- › Flexibility for design optimization
- › Improved optical control
- › Enhanced ease of use and manufacturability
- › Solder-less connectivity for plug & play installation and field upgradability
- › Improved inventory management and quality control

\*3000K 80 CRI



## BRIDGELUX VERO ADVANTAGE

Vero™ is the next generation of solid state light sources. In addition to delivering high lumen output and elevated current range support, Vero incorporates several features to simplify the design integration and manufacturing process to accelerate time to market and reduce system costs

- › Greater luminaire design flexibility
- › Reduced total system costs
- › Industry leading ease of use features
- › Bridgelux quality of light
- › Platform for future functionality (i.e. smart lighting)
- › Industrial lighting
- › Street and exterior area lighting
- › Retrofit lamps

Polarity indication marks simplify manufacturing operator instructions

Solderless connector port enables simplified manufacturing processes, reduced inventory carrying costs and field upgradability

2D Bar code provides full manufacturing traceability

Thermally isolated solder pads reduce manufacturing cycle time and complexity

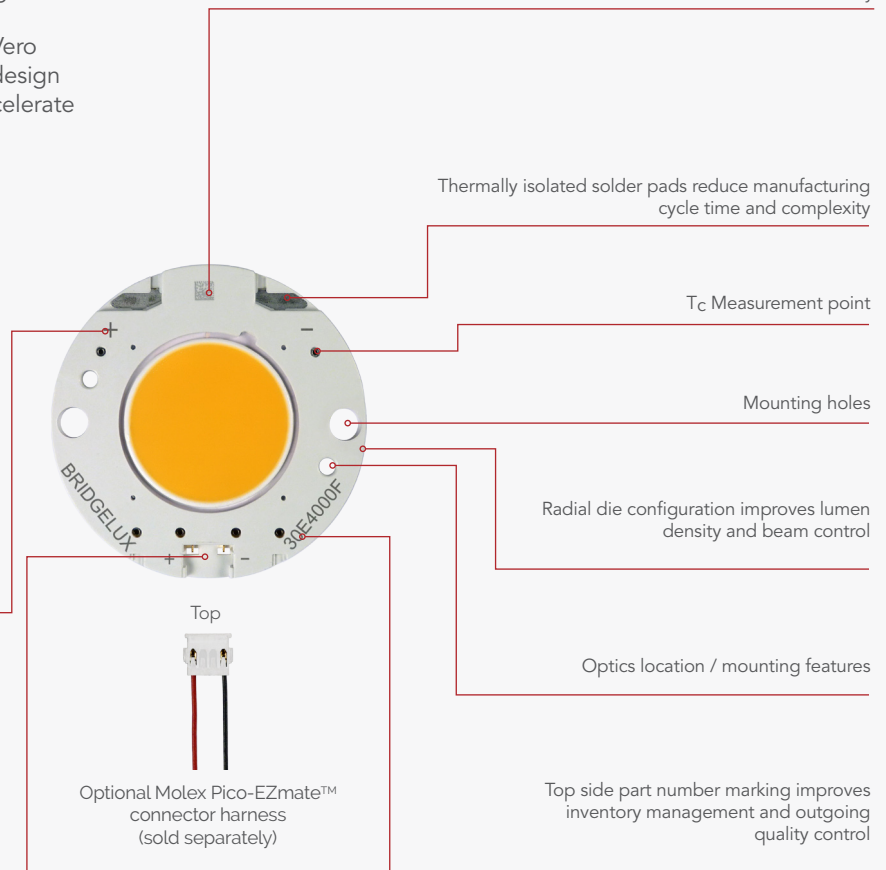
T<sub>c</sub> Measurement point

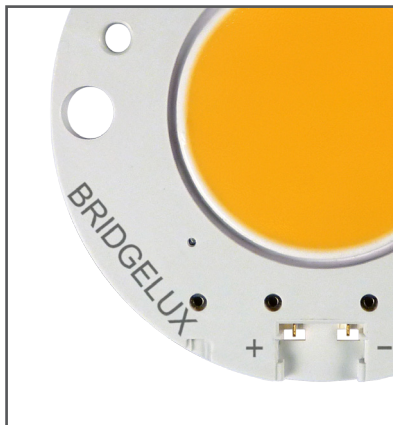
Mounting holes

Radial die configuration improves lumen density and beam control

Optics location / mounting features

Top side part number marking improves inventory management and outgoing quality control





## APPLICATIONS

The Bridgelux Vero™ enables luminaire manufacturers to develop products covering a broad range of lighting applications with a limited number of form factors and SKUs. Regardless of the application (retrofit lamps, commercial lighting or streetlights), Vero delivers state of the art performance with unmatched flexibility and versatility to address your specific design requirements.

- › Retail and hospitality lighting
- › Commercial and office lighting
- › Residential and consumer lighting
- › Industrial lighting
- › Street and exterior area lighting
- › Retrofit lamps

## DESIGN FLEXIBILITY

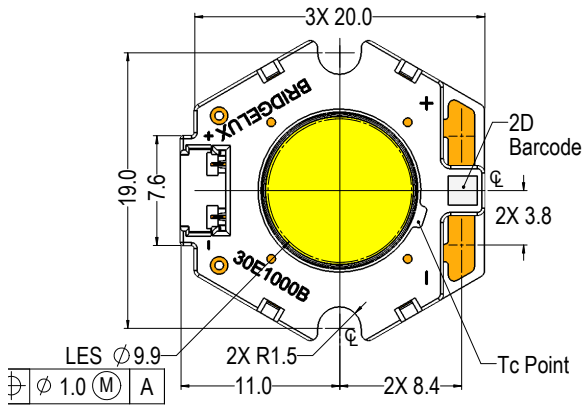
Vero has been engineered to operate over a broad current range, enabling increased design flexibility and versatility. Capable of reliable operation at up to twice the nominal drive current, Vero allows lamp and luminaire manufacturers the opportunity to optimize for efficiency, cost, light density, or any combination of these attributes based on application specific design requirements.

## PRODUCT SELECTION GUIDE

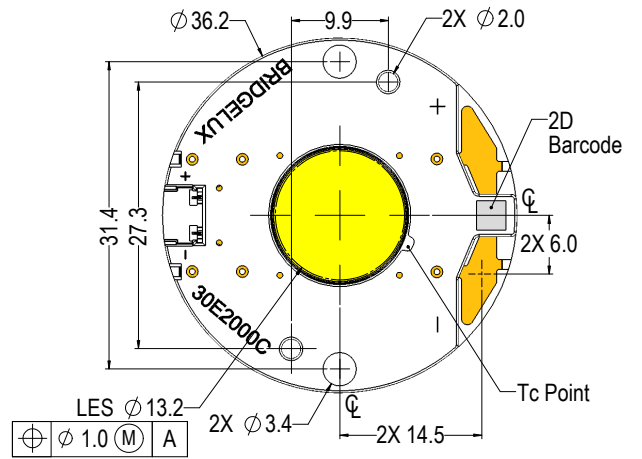
		Light Output (lms)							
		Vero 10		Vero 13		Vero 18		Vero 29	
Typical CCT (K)	CRI	Nominal Current 350mA, 26.7V, 9.3W		Nominal Current 500mA, 32.5V, 16.2W		Nominal Current 1050mA, 29.5V, 31W		Nominal Current 2100mA, 38.6V, 81W	
2700K	80	1,120		1,880		3,650		9,390	
	90	900		1,510		2,930		7,530	
	97	720		1,210		2,340		-	
3000K	80	1,170		1,950		3,790		9,740	
	90	960		1,600		3,100		7,970	
	97	790		1,310		2,550		-	
3500K	80	1,210		2,020		3,930		10,100	
4000K	80	1,230		2,060		4,000		10,270	
5000K	70	1,360		2,270		4,410		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		490	420	810	700	1590	1370	4090	3520
Maximum		2,510	2,160	4,390	3,770	8,180	7,030	16,260	13,970

### NOTES:

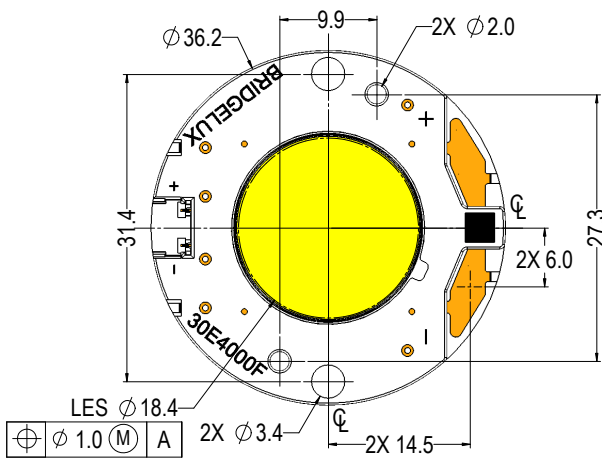
1. Typical values indicated at nominal current under pulsed measurement conditions, Tj = 25°C
2. Decor product option not available on Vero 29
3. Vero 10, Vero 13, Vero 18 can support up to 2x nominal current, while Vero 29 is limited to 1.5x nominal current.



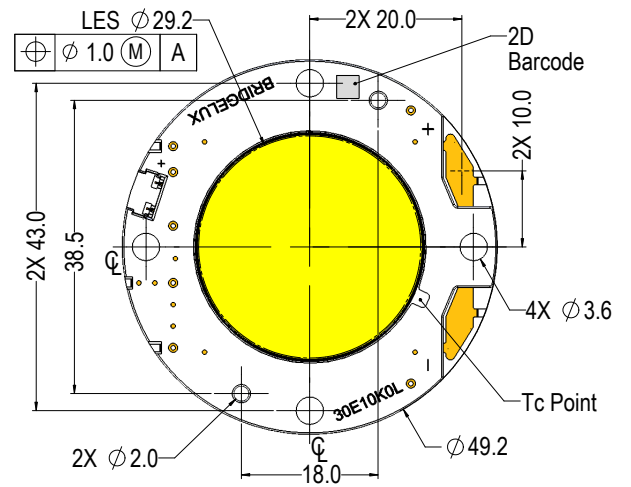
Vero 10



Vero 13



Vero 18



Vero 29

Note: Product specifications are subject to change without notice. Please consult your Bridgelux sales representative for more information.



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