

P1 / FEATURES

Features and benefits of Bridgelux Vesta™ Series product

P2 / PERFORMANCE

Preliminary specifications, and performance graphs

P3 / HANDLING

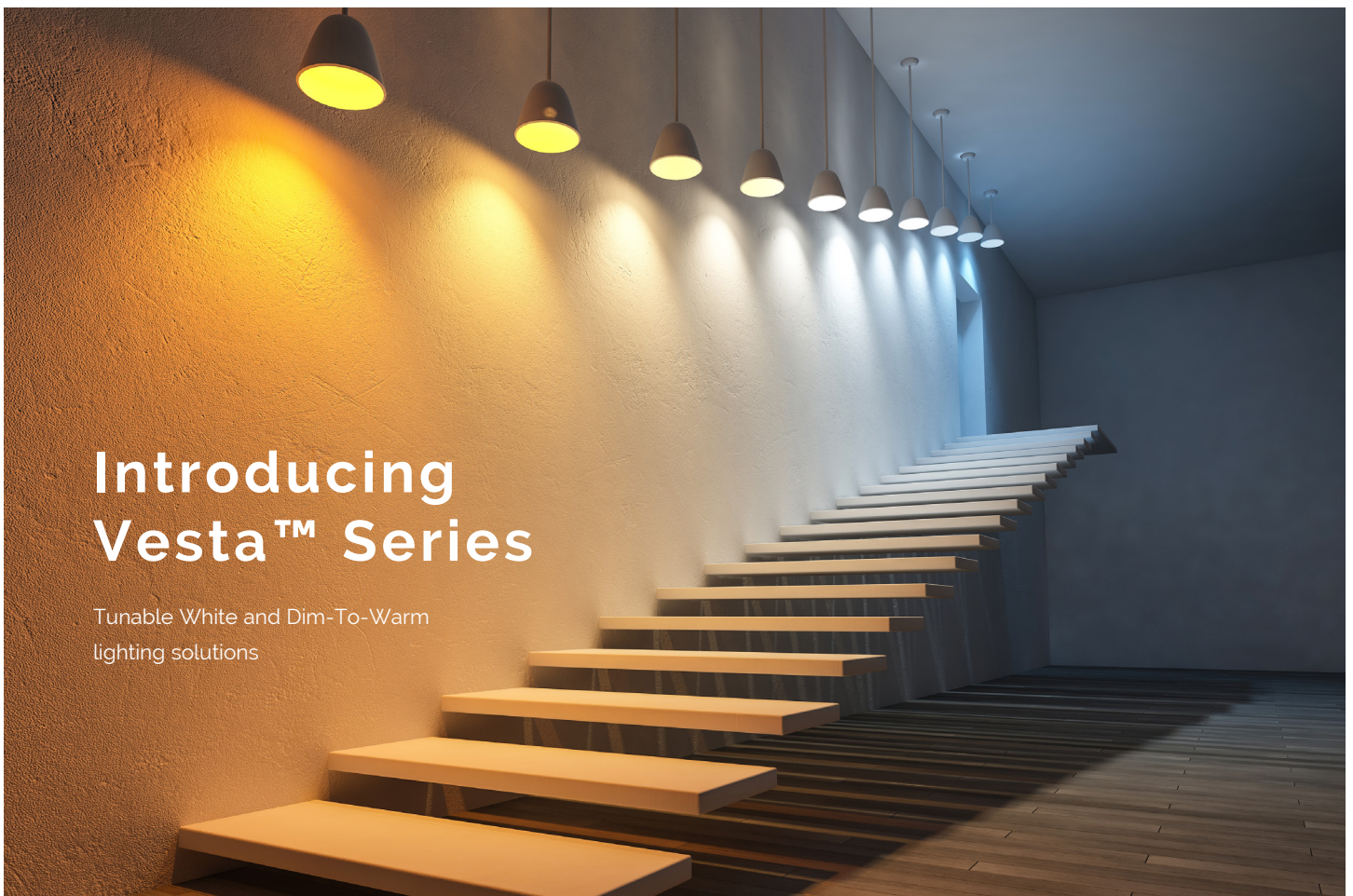
How to handle and install Vesta Series Tunable White arrays

P4 / ECOSYSTEM

Where to buy compatible drivers, holders and optics

Vesta™ Series

Tunable White Quick Start Guide



Introducing Vesta™ Series

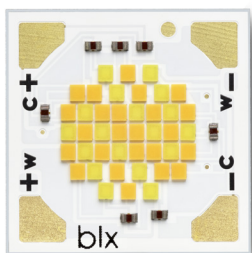
Tunable White and Dim-To-Warm lighting solutions

Features

- Tuning range from 2700K-5000K
- Uniform, high quality illumination
- More energy efficient than incandescent, halogen and fluorescent lamps

Benefits

- Superior color mixing enabled by chip scale package (CSP)
- High-quality, true color reproduction
- Drop in compatible with existing tunable white solutions



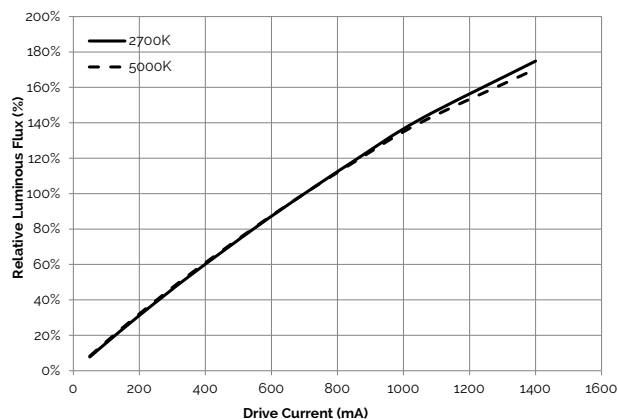
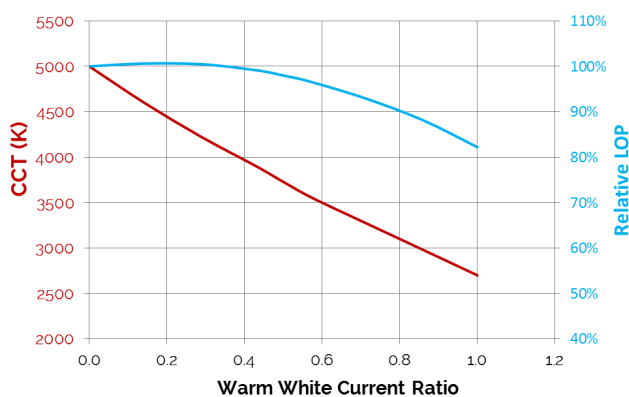
Product Specifications

Part Number	Nominal CCT (K)	CRI	Drive Current (mA)	Typical V_f $T_c=25^\circ\text{C}$ (V)	Typical Pulsed Flux $T_c=25^\circ\text{C}$ (lm)	Typical Power $T_c=25^\circ\text{C}$ (W)	Typical Efficacy $T_c=25^\circ\text{C}$ (lm/W)	Maximum Drive Current (mA)
BXRV-TR-2750G-1000-A-1x	2700	90	700	17.6	1090	12.3	88	1400
	5000	90	700	18.1	1300	12.7	103	
BXRV-TR-2750G-2000-A-1x	2700	95	700	35.3	2180	24.7	88	
	5000	95	700	36.3	2600	25.4	102	

Notes:

1. Preliminary typical values at nominal drive current, 25°C
2. Do NOT operate these units at drive currents greater than the maximum use conditions included in the table above

Tunable White Performance Curves



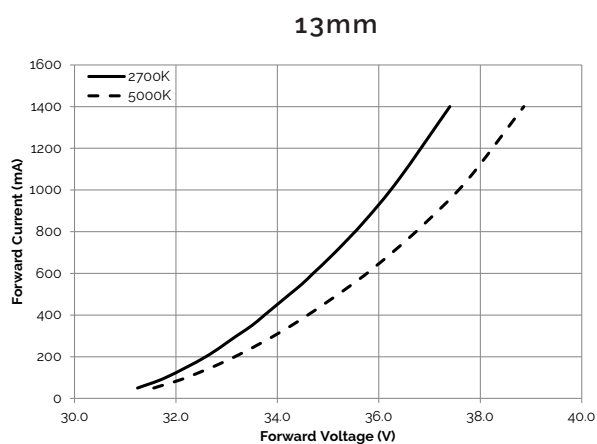
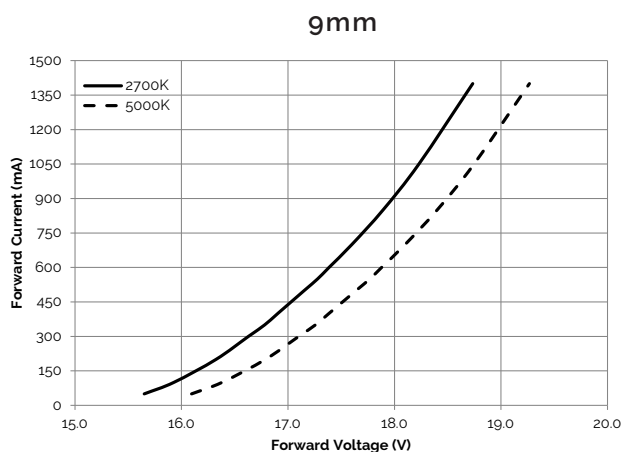
Note:

1. Total current of Cool White and Warm White is constant

Note:

1. Warm White and Cool White are driven independently

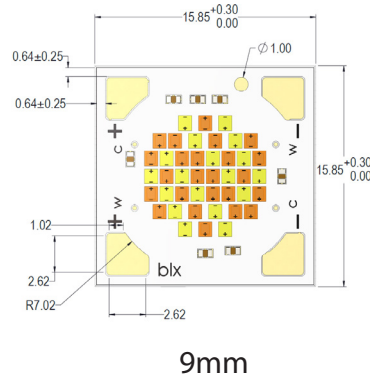
Tunable White V_f Curves



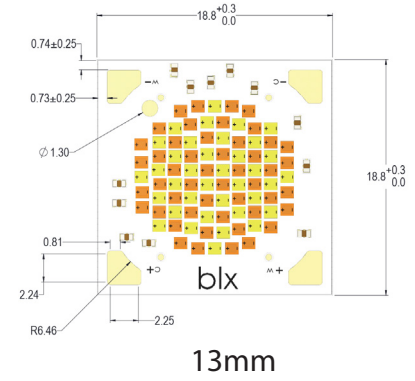
Mechanical Drawings

Tunable White Product Construct

- 2 LES sizes (13mm, 9mm)
- 2 wattage packages (25W, 12W)
- Ceramic substrate
- Chip scale package
- Dual channel



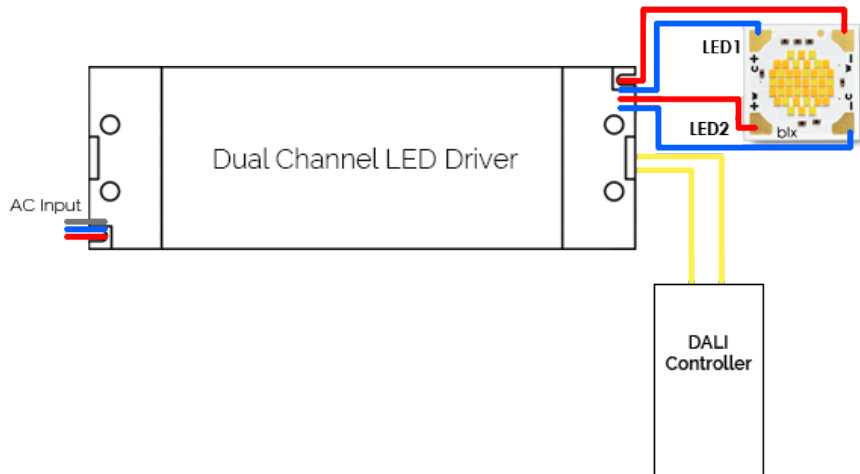
9mm



13mm

Three dimensional CAD models depicting the product outline of all Bridgelux Vesta Series LED arrays are available in both IGES and STEP formats. Please contact your Bridgelux sales representative for assistance or visit bridgelux.com/products/vesta-series.

CAUTION: Avoid touching the LES to prevent inadvertent damage to wire bonds.



Handling & Installation

- Bridgelux encourages mounting the Vesta Series array to a suitably sized heatsink using an appropriate electromechanical holder
- Vesta Series arrays require a thermal interface material between the array and the heatsink
- Detailed testing for compatibility of Vesta Series products with ecopartners is ongoing

THERMAL INTERFACE

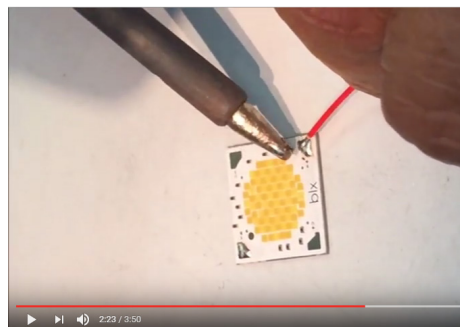
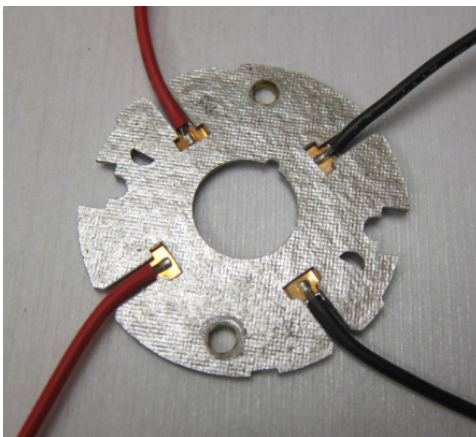
Use a suitable TIM between the array and heat sink. Grease is recommended for optimal testing. TIM pad material can also be used. Do not exceed 0.5mm TIM pad thickness and ensure material covers full extent of the substrate. The silk screen application methods work best.

HOLDER USE INSTRUCTIONS:

- Because B+W holders do not have mechanical clips to hold onto the array, B+W recommends flipping the assembly upside down during assembly process
- Use only M3 flat head screws to mount the holder/array onto the heat sink using through holes on the holder
- Maximum fixing torque is 0.3 nm. Use a torque screw driver to tighten screws
- Electrical connections are made through contacts on the holder
- For detailed holder instructions, please refer to Bender+Wirth's Technical Guide for LED Holder Series 430

Vesta Series Array: Electromechanical Holder

Bender+Wirth holders are available for Vesta Series Tunable White arrays. For a complete list of compatible holder part numbers, please contact Bridgelux Sales.



Visit our YouTube channel for a detailed video of manual soldering procedures <https://youtu.be/5TFzt19xnDE>

Ecosystem Partners & Support

Bridgelux Part Number	Drivers	Holders	Optics
BXRV-TR-2750G-1000-A-1x (Tunable White 9mm, 12W)	Moons (MU050S150BQ1201)	BJB (47.319.2360, 47.319.2361) Bender+Wirth (48g)	Coming Soon
BXRV-TR-2750G-2000-A-1x (Tunable White 13mm, 25W)	Helvar (LL35-2-E-DA-iC) Samsung (SLP-DUA45501US) eldoLED (DUALdrive 560/A, L, U, S) Moons (MU0501105BQ15, MU0501105BQ151, MU0501150BQ11)	BJB (47.319.2370, 47.319.2371) Bender+Wirth (49g)	Ledil (Brooke, Ronda, Winnie)

Product Ray Trace files are available upon request: rayfiles@bridgelux.com

Contact

At Bridgelux, we help companies, industries and people experience the power and possibility of light. Since 2002, we've designed LED solutions that are high performing, energy efficient, cost effective and easy to integrate. Our focus is on light's impact on human behavior, delivering products that create better environments, experiences and returns—both experiential and financial. And our patented technology drives new platforms for commercial and industrial luminaires.

For more information about the company, please visit

bridgelux.com
twitter.com/Bridgelux
facebook.com/Bridgelux
youtube.com/user/Bridgelux
linkedin.com/company/bridgelux-inc-_2
 WeChat ID: BridgeluxInChina

Drivers	Holders	Optics
eldoLED sales@eldoled.com +31 (0)40 782 04 00	BJB vanessa.simpson@bjb.com +1 706 965 1408	Ledil sales@ledil.com +358 2 733 8001
Helvar michael.hong@helvar.com +86 512 6763 3078	Bender+Wirth M.Kritzler@bender-wirth.de +49 (0) 2359 669 0	
Moons info@moons.com.cn +1 630 833 5940 +39 039 62 60 521		

Your feedback is appreciated!

Please take this 3 minute online survey to provide valuable feedback on Vesta Series products
surveymonkey.com/r/vesta_series



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