

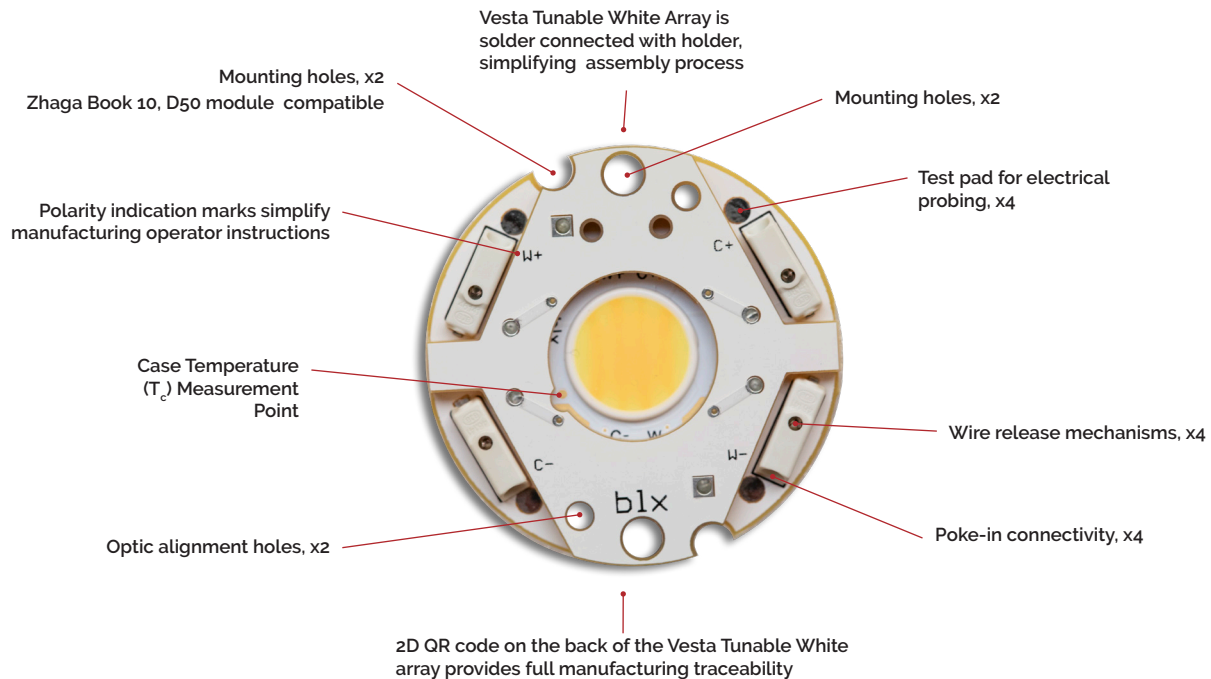


Bridgelux® Vesta® SE Series Tunable White Gen 2 9mm Integrated Array with S2 Holder

Product Data Sheet DS361

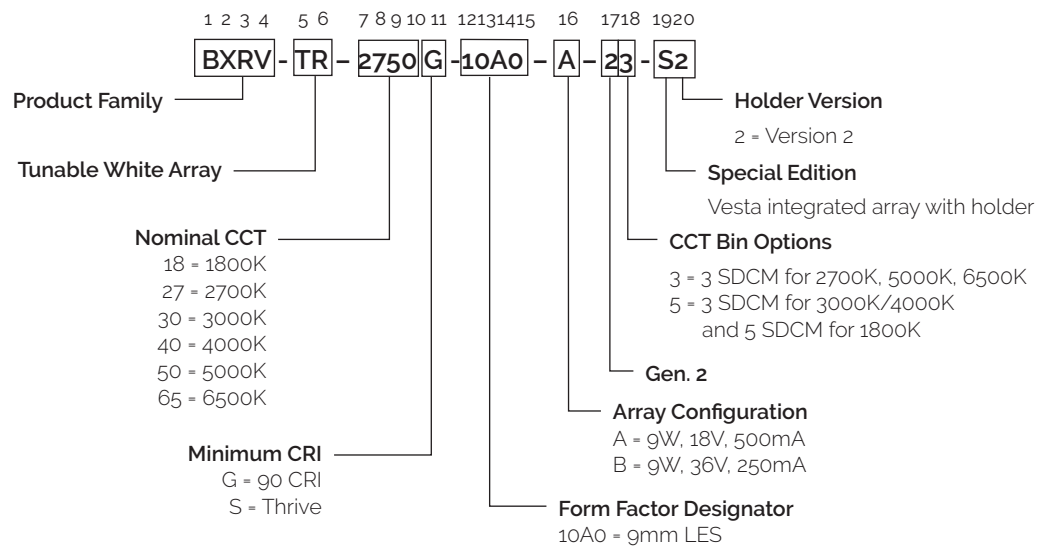
Product Feature Map

Bridgelux arrays are fully engineered devices that provide consistent thermal and optical performance on an engineered mechanical platform. The arrays incorporate several features to simplify design integration and assembly. Please visit www.bridgelux.com for more information on the Vesta SE Series family of products.



Product Nomenclature

The part number designation for Bridgelux Vesta S2 Series arrays is explained as follows:



Product Selection Guide

The following product configurations are available:

Table 1: Selection Guide, Measurement Data

Part Number	Nominal CCT ¹ T _c =85°C (K)	Typical CRI ² T _c =85°C	Nominal Drive Current, per channel (mA)	Typical V _f ³ T _c =25°C (V)	Typical Power T _c =25°C (W)	Typical Pulsed Flux ^{3,4,5} T _c =25°C (lm)	Typical Efficacy T _c =25°C ⁵ (lm/W)	Minimum Pulsed Flux ⁸ T _c =25°C (lm)	Typical DC Flux T _c =85°C ^{6,7} (lm)
BXRV-TR-2750G-10A0-A-23-S2	2700	93	500	17.6	8.8	865	98	778	769
	5000	92	500	18.2	9.1	1012	111	911	891
BXRV-TR-2765G-10A0-A-23-S2	2700	93	500	17.6	8.8	865	98	778	769
	6500	92	500	18.2	9.1	1021	112	919	899
BXRV-TR-2750G-10A0-B-23-S2	2700	93	250	35.1	8.8	865	99	778	769
	5000	92	250	35.1	8.8	1030	117	927	907
BXRV-TR-2765G-10A0-B-23-S2	2700	93	250	35.1	8.8	865	99	778	769
	6500	92	250	35.1	8.8	1040	118	936	915
BXRV-TR-2750S-10A0-B-23-S2	2700	98, Thrive	250	35.1	8.8	766	87	690	682
	5000	98, Thrive	250	35.1	8.8	923	105	830	831
BXRV-TR-2765S-10A0-B-23-S2	2700	98, Thrive	250	35.1	8.8	766	87	690	682
	6500	98, Thrive	250	35.1	8.8	931	106	838	837
BXRV-TR-1830G-10A0-B-25-S2	1800	92	250	35.1	8.8	585	67	527	521
	3000	92	250	35.1	8.8	910	104	819	801
BXRV-TR-1840G-10A0-A-25-S2	1800	92	500	17.6	8.8	594	68	535	529
	4000	92	500	18.2	9.1	965	106	868	849
BXRV-TR-1840S-10A0-A-25-S2	1800	92	500	17.6	8.8	594	68	535	529
	4000	98, Thrive	500	18.2	9.1	868	95	781	764
BXRV-TR-1840G-10A0-B-25-S2	1800	92	250	36.0	9.0	630	70	567	561
	4000	92	250	36.0	9.0	1001	111	901	891

Notes for Table 1:

- Nominal CCT as defined by ANSI C78.377-2017.
- For CRI 92-93 products, the minimum CRI value is 90 and the minimum R_g value is 50. For CRI 98 Thrive products, the minimum CRI value is 95. Bridgelux maintains a ±3 tolerance on all R_g values.
- Products tested under pulsed condition (10ms pulse width) at nominal test current where T_j (junction temperature) = T_c (case temperature) = 25°C.
- Typical performance values are provided as a reference only and are not a guarantee of performance.
- Bridgelux maintains a ±7% tolerance on flux measurements.
- Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.
- Typical performance is estimated based on operation under DC (direct current) with LED array mounted onto a heat sink with thermal interface material and the case temperature maintained at 85°C. Based on Bridgelux test setup, values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.
- Minimum flux values at nominal test current are guaranteed by 100% test.

European Product Registry for Energy Labeling

The European Product Registry for Energy Labeling (EPREL) is defined in the EU Regulation 2017/1369 to provide information about a product's energy efficiency to consumers. Together with Energy Labeling Regulation ELR (EU) 2019/2015, which was amended by regulation (EU) 2021/340 for energy labelling of light sources, manufacturers are required to declare an energy class based on key technical specifications from each of their product and register it in an open data base managed by EPREL. It is now a legal requirement for a vendor of light sources to upload information about their products into the EPREL database before placing these products on the market in the EU.

Table 2 provides a list of part numbers that are in compliance with EPREL regulations and are currently listed in the EPREL database.

At Bridgelux, we are fully committed to supplying products that are compliant with pertinent laws, rules, and obligation imposed by relevant government bodies including the ELR regulation. Customers can use these products with full confidence for any projects that fall under the EPREL requirement.

Table 2: Table of products registered in the European Product Registry for Energy Labeling (EPREL)

Part Number	CCT (K)	CRI	Current ³ (mA)	Voltage ³ (V)	Useful Flux ² Φ_{useful} Tc=85°C (lm)	Power (W)	Efficacy (lm/W)	Energy Efficiency Class ⁴	Registration No	URL ¹
BXRV-TR-2750G-10A0-A-23-S2	5000	90	700	17.8	1069	12.5	85	G	876530	https://tinyurl.com/36cdxjzx
BXRV-TR-2765G-10A0-A-23-S2	6500	90	700	17.8	1078	12.5	86	G	879126	https://tinyurl.com/5bvbyfs5
BXRV-TR-2750G-10A0-B-23-S2	5000	90	480	34.3	1440	16.5	87	G	876531	https://tinyurl.com/4tvhj7n
BXRV-TR-2765G-10A0-B-23-S2	6500	90	480	34.3	1453	16.5	88	G	879127	https://tinyurl.com/uhu8d7rc
BXRV-TR-2750S-10A0-B-23-S2	5000	97	480	34.3	1214	16.5	73	G	876537	https://tinyurl.com/2c2sw3zm
BXRV-TR-2765S-10A0-B-23-S2	6500	97	480	34.3	1223	16.5	74	G	876540	https://tinyurl.com/ppcy8cf5
BXRV-TR-1830G-10A0-B-25-S2	3000	90	390	33.3	995	13.0	76	G	876520	https://tinyurl.com/yztv6ar5
BXRV-TR-1840G-10A0-A-25-S2	4000	90	700	17.8	1030	12.5	82	G	876523	https://tinyurl.com/3xrd7c5z
BXRV-TR-1840S-10A0-A-25-S2	4000	97	660	17.6	812	11.7	69	G	876527	https://tinyurl.com/46x2fc2b
BXRV-TR-1840G-10A0-B-25-S2	4000	90	480	34.3	1316	16.5	79	G	876524	https://tinyurl.com/4zkdac6b

Notes for Table 2:

1. The performance data in this table is a subset of the data that was submitted to EPREL for obtaining the energy class listed here. For accessing a complete set of technical documentation of Bridgelux registered products in the EPREL database, please visit one of the hyperlinks listed above.
2. For a definition of useful luminous flux (Φ_{useful}), please see the ELR regulations at <https://tinyurl.com/4b6zvt4m>.
3. For information on performance values at alternative drive conditions, please refer to the Product Selection Guide, Absolute Maximum Rating Table and Performance Curves in this data sheet.
4. EPREL requires a symbol for displaying the energy classification of a product in marketing literature. This symbol consists of a letter stating a product's energy efficiency class inside a specific arrow logo as defined by EPREL.
5. All products listed here must be disposed as e-waste according to the guidelines in the country in which the product is used.

CRI and TM30 Characteristics for Vesta Arrays with Thrive

Table 3: Typical Color Rendering Index and TM-30 Values at $T_c=85^\circ\text{C}$

Nominal CCT ¹	R _f	R _g	R _a	R ₁	R ₂	R ₃	R ₄	R ₅	R ₆	R ₇	R ₈	R ₉	R ₁₀	R ₁₁	R ₁₂	R ₁₃	R ₁₄	R ₁₅
2700K	96	99	98	96	98	97	94	96	95	98	98	97	95	91	92	96	97	97
4000K	97	101	97	96	98	98	97	97	97	99	97	92	97	95	96	97	98	96
5000K	96	99	98	98	98	98	95	98	96	97	97	95	96	97	91	97	98	96
6500K	96	99	98	98	98	99	97	98	98	99	98	95	96	98	93	98	99	96

Note for Table 3:

1. Applicable for part numbers BXRV-TR-xxxxS-10A0-x-2x with the Thrive spectrum
2. Bridgelux maintains a tolerance of ± 3 on Color Rendering Index R1-R15 measurements and TM-30 measurements.

Figure 1: 2700K Thrive TM-30 Graphs

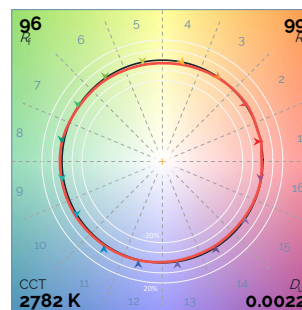
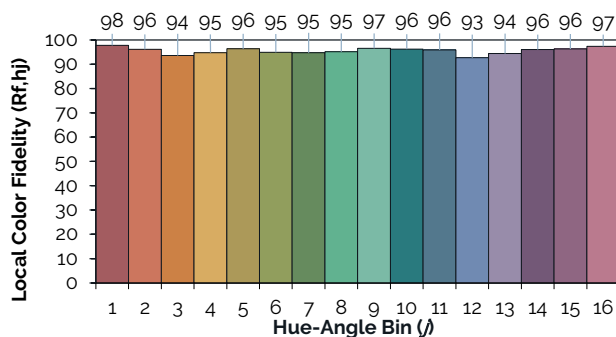
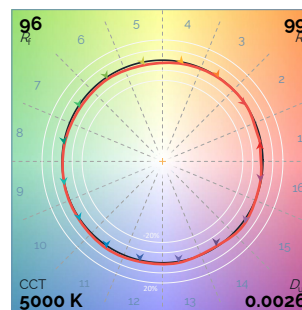
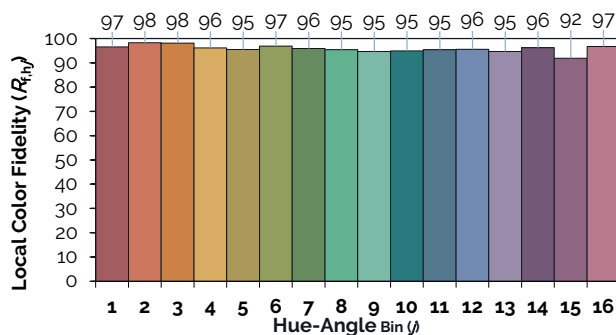


Figure 2: 5000K Thrive TM-30 Graphs



TM30 Characteristics for Vesta Arrays with Thrive

Figure 3: 6500K Thrive TM-30 Graphs

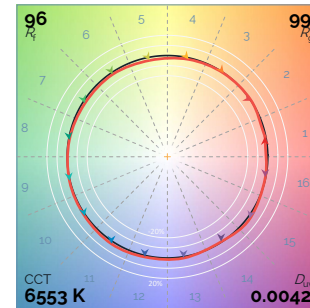
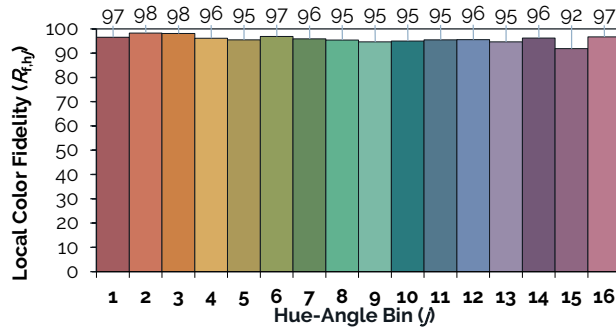
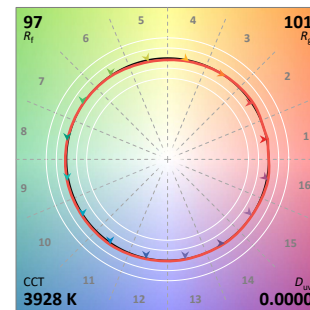
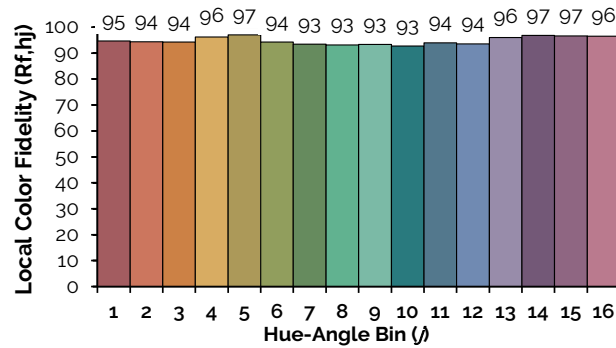


Figure 4: 4000K Thrive TM-30 Graphs



Average Spectral Difference

Spectral Matching to Natural Light

The lighting market is in the early stages of adoption of human-centric lighting (HCL). HCL encompasses the effects of lighting on the physical and emotional health and well-being of people. Throughout evolution, the human visual system has evolved under the natural light of sun and fire. These light sources have standardized industry spectral power definitions that describe the state of natural light. However, conventional metrics such as CCT, CRI, and TM-30 fail to adequately quantify the naturalness, or closeness of these light sources to the standardized natural spectra. Due to a lack of an industry standard metric to quantitatively measure the naturalness of a light source, Bridgelux has pioneered a new metric that takes the guesswork out of comparing LED light sources to natural light.

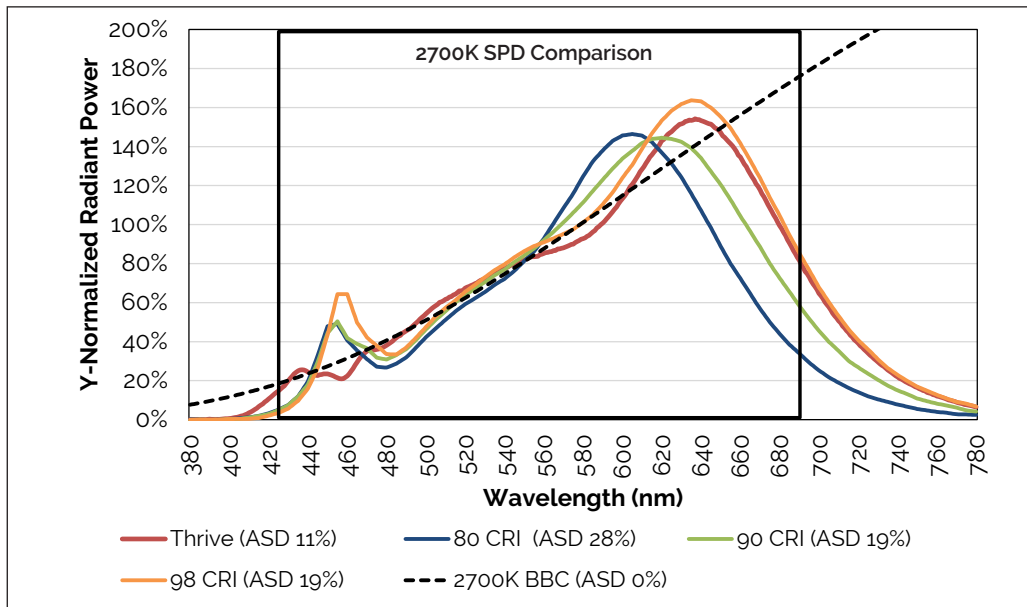
Average Spectral Difference, or ASD, is calculated by measuring the absolute difference between two spectra at discrete wavelengths. These values are averaged across a wavelength range derived from the photopic response curve, or $V(\lambda)$; a luminous efficiency function describing the average spectral sensitivity of human perception of brightness. The range of 425nm to 690nm was selected to remove the tails of the $V(\lambda)$ gaussian distribution below 1% of the peak value at 555nm, covering 99.9% of the area under the photopic response curve. Natural light is defined following the approach of IES TM-30; black body curves for light sources of $\leq 4000K$ and the CIE standard illuminant D for light sources of $\geq 5000K$.

Natural light has an ASD of 0%; lower ASD values indicate a closer match to natural light. Thrive is engineered to provide the closest match to natural light available using proprietary chip, phosphor and packaging technology, resulting in an ASD between 8% to 11% for all CCTs used in Vesta products. By comparison, standard 80, 90, and 98 CRI light sources have ASD values that are 100% to 300% larger than Thrive. To learn more about the ASD metric, please review the Bridgelux whitepaper: Average Spectral Difference, a new method to make objective comparisons of naturalness between light sources; or contact your Bridgelux sales representative.

Table 4: Typical ASD Values at $T_c=85^\circ C$

Nominal CCT	ASD
2700K	11%
4000K	6%
5000K	9%
6500K	8%

Figure 5: SPD Comparison



Electrical Characteristics

Table 5: Electrical Characteristics

Part Number	CCT $T_c = 85^\circ\text{C}$ (K)	Nominal Drive Current (mA)	Forward Voltage Pulsed, $T_c = 25^\circ\text{C}$ (V) ^{1, 2, 3, 7}			Typical Tem- perature Coefficient of Forward Voltage ⁴ $\Delta V_f / \Delta T_c$ (mV/ $^\circ\text{C}$)	Typical Thermal Resistance Junction to Case ⁵ R_{j-c} ($^\circ\text{C}/\text{W}$)	Driver Selection Voltages ⁶ (V)	
			Minimum	Typical	Maximum			V_f Min. Hot $T_c = 105^\circ\text{C}$ (V)	V_f Max. Cold $T_c = -40^\circ\text{C}$ (V)
BXRv-TR-xxxxX-10A0-A- 2X-S2	1800, 2700	500	16.5	17.6	18.7	-5.9	0.91	16.1	19.0
	4000, 5000/6500	500	17.1	18.2	19.3	-5.9		16.6	19.7
BXRv-TR-xxxxX-10A0-B- 2X-S2	1800, 2700	250	33.0	35.1	37.2	-12.8	0.86	32.0	38.0
	3000, 5000/6500	250	33.0	35.1	37.2	-12.8		32.0	38.0
BXRv-TR-1840G-10A0-B- 25-S2	1800	250	33.8	36.0	38.2	-11.1	1.00	32.9	38.9
	4000	250	33.8	36.0	38.2	-10.9		32.8	39.0

Notes for Table 5:

- Parts are tested in pulsed conditions, $T_c = 25^\circ\text{C}$. Pulse width is 10ms.
- Voltage minimum and maximum are provided for reference only and are not a guarantee of performance.
- Bridgelux maintains a tester tolerance of $\pm 0.10\text{V}$ on forward voltage measurements.
- Typical temperature coefficient of forward voltage tolerance is $\pm 0.1\text{mV}$ for nominal current.
- Thermal resistance value was calculated using total electrical input power; optical power was not subtracted from input power. The thermal interface material used during testing is not included in the thermal resistance value.
- V_f min hot and max cold driver selection voltages are provided as reference only and are not guaranteed by test. These values are provided to aid in driver design and selection over the operating range of the product.
- This product has been designed and manufactured per IEC 62031:2018. This product has passed dielectric withstand voltage testing at 500 V. The working voltage designated for the insulation of the dielectric layer is 60V DC. The maximum allowable voltage across the array must be determined in the end product application.

Absolute Maximum Ratings

Table 6: Maximum Ratings

Parameter	Maximum Rating			
LED Junction Temperature (T_j)	125°C			
Storage Temperature	-40°C to +105°C			
Operating Case Temperature ¹ (T_c)	105°C			
	BXR-V-TR-xxxxG-10A0-A-23-S2		BXR-V-TR-xxxxG-10A0-B-2x-S2	
	Channel 1	Channel 2	Channel 1	Channel 2
	2700K 1800K	5000K, 6500K, 4000K	2700K, 1800K	5000K, 6500K, 3000K, 4000K
Maximum Combined Drive Current ⁴	700mA	700mA	480mA	480mA
Maximum Peak Pulsed Drive Current ⁵	960mA	720mA	500mA	500mA
Maximum Total Power	13.0W		18.0W	

Notes for Table 6:

- For IEC 62717 requirement, please contact Bridgelux Sales Support.
- See Bridgelux Application Note AN 92 for more information.
- Lumen maintenance and lifetime predictions are valid for drive current and case temperature conditions used for LM-80 testing as included in the applicable LM-80 test report. Contact your Bridgelux sales representatives for the LM-80 report.
- The Maximum Combined Drive Current is defined as the sum of the drive currents in both channels.
Example for BXR-V-TR-18xxG-10A0-B-23: If 480mA is applied to one channel, no current may be applied to the other channel. If 350mA is applied to one channel, then a maximum of 130mA can be applied to the other channel.
Example for BXR-V-TR-27xxG-10A0-A-2x: If 700mA is applied to one channel, no current may be applied to the other channel. If 350mA is applied to one channel, then a maximum of 350mA can be applied to the other channel.
- Bridgelux recommends a maximum duty cycle of 10% and pulse width of 20ms when operating LED arrays at the maximum peak pulsed current specified. Maximum peak pulsed currents indicate values where the LED array can be driven without catastrophic failures.

Performance Curves

Figure 6: Forward Voltage vs. Forward Current, $T_c=25^\circ\text{C}$

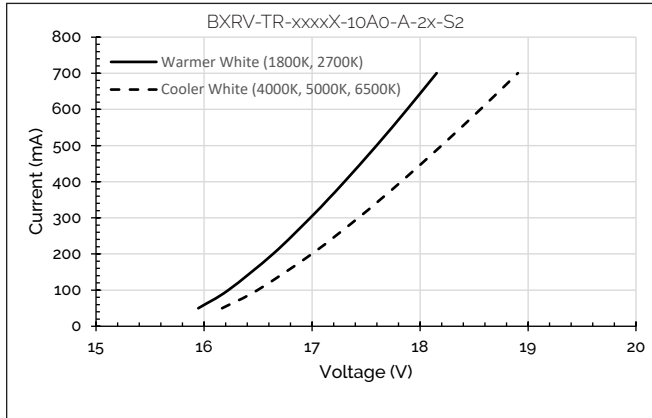


Figure 7: Forward Voltage vs. Forward Current, $T_c=25^\circ\text{C}$

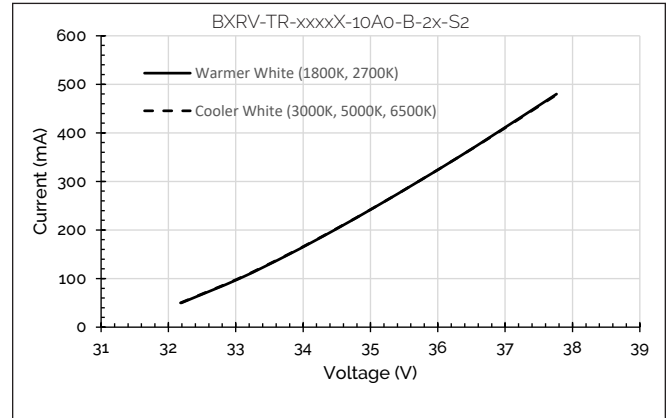


Figure 8: Forward Voltage vs. Forward Current, $T_c=25^\circ\text{C}$

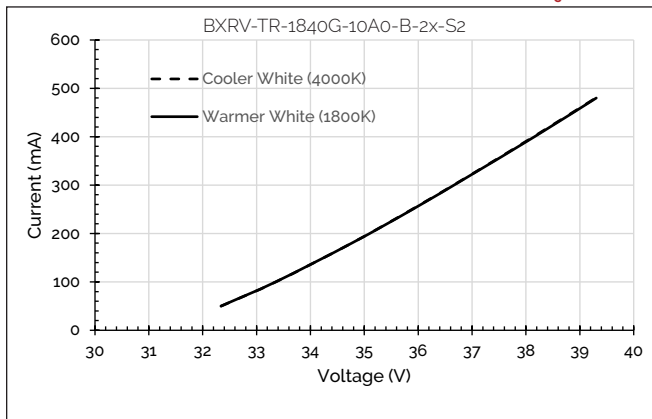


Figure 9: Relative Flux vs. Drive Current, $T_c=25^\circ\text{C}$

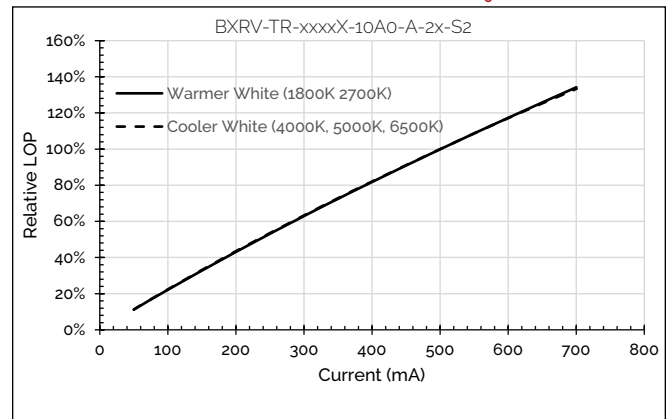


Figure 10: Relative Flux vs. Drive Current, $T_c=25^\circ\text{C}$

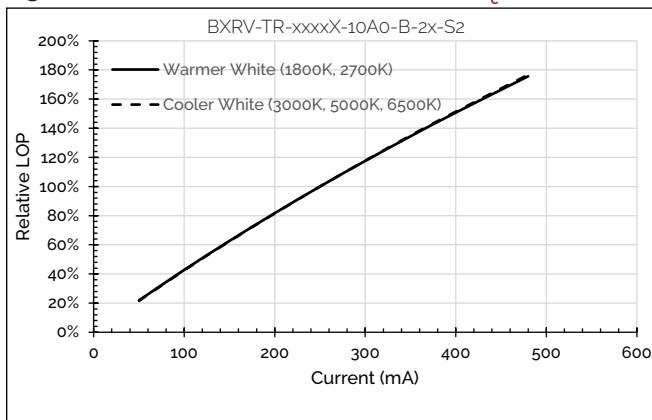
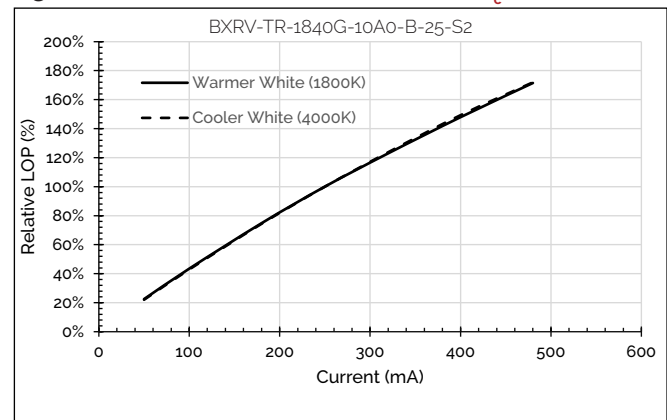


Figure 11: Relative Flux vs. Drive Current, $T_c=25^\circ\text{C}$



Performance Curves

Figure 12: Relative Flux vs. Case Temperature

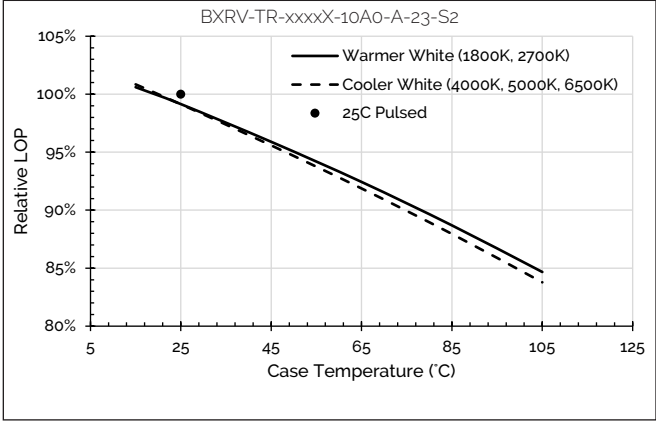


Figure 13: Relative Flux vs. Case Temperature

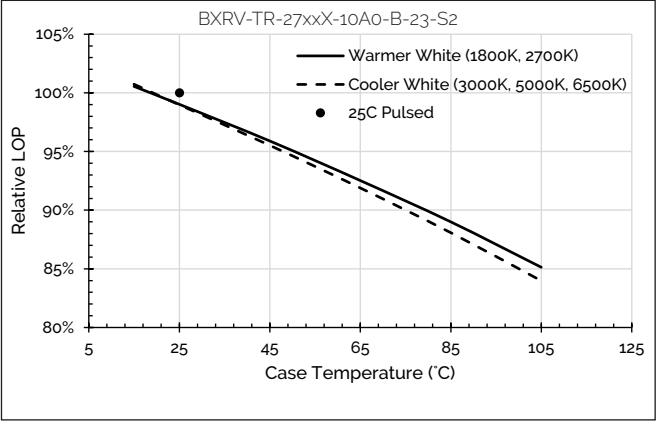


Figure 14: Relative Flux vs. Case Temperature

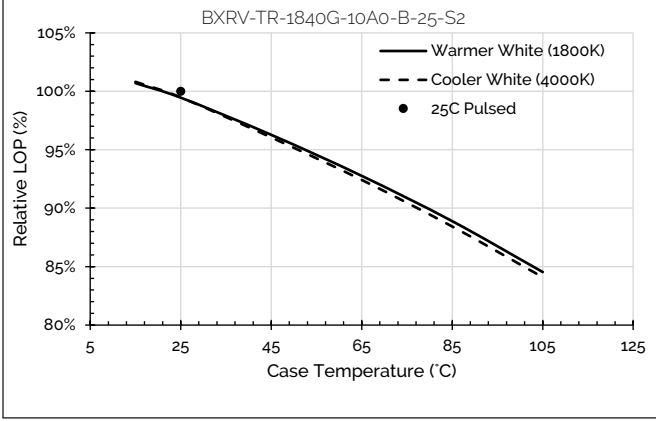


Figure 15: Relative Voltage vs. Case Temperature

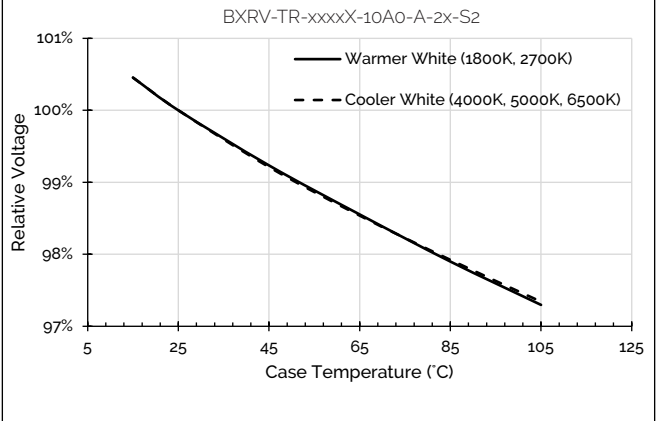


Figure 16: Relative Voltage vs. Case Temperature

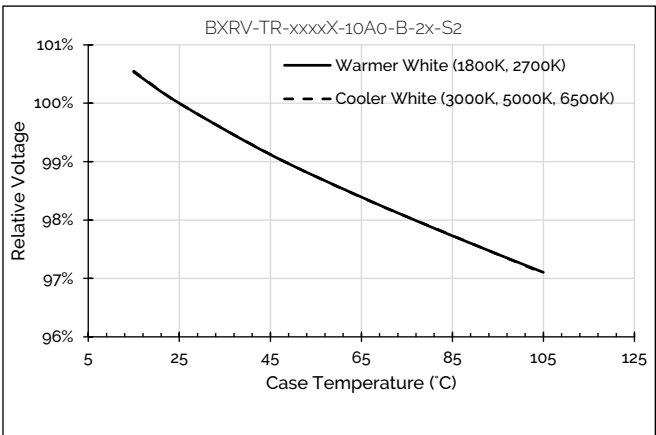
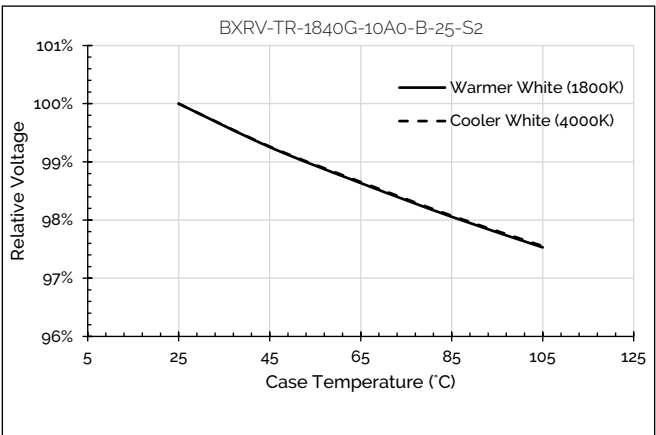


Figure 17: Relative Voltage vs. Case Temperature



Performance Curves

Figure 18: CCT vs. Relative Current, Tc=85C

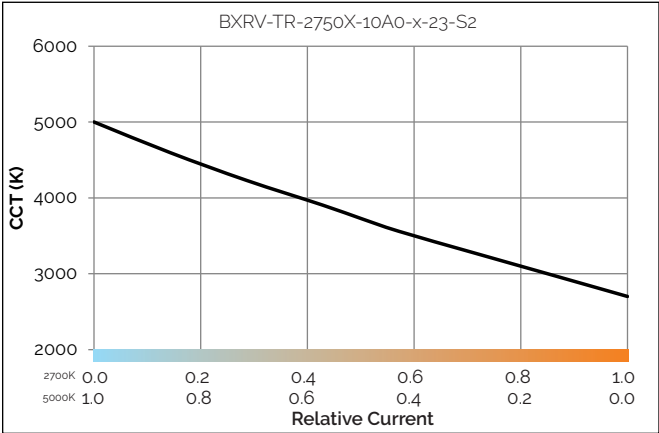


Figure 19: CCT vs. Relative Current, Tc=85C

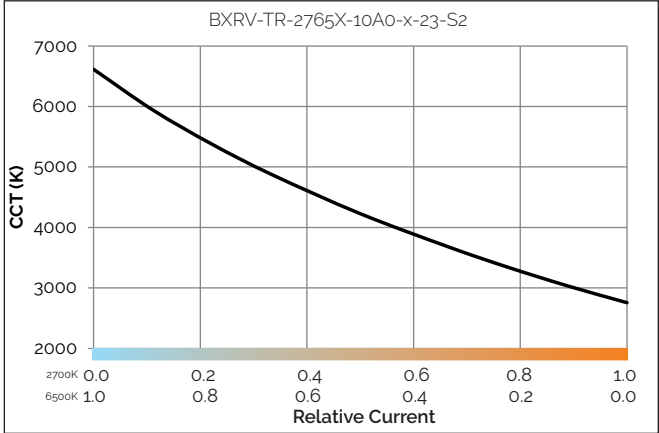


Figure 20: CCT vs. Relative Current, Tc=85C

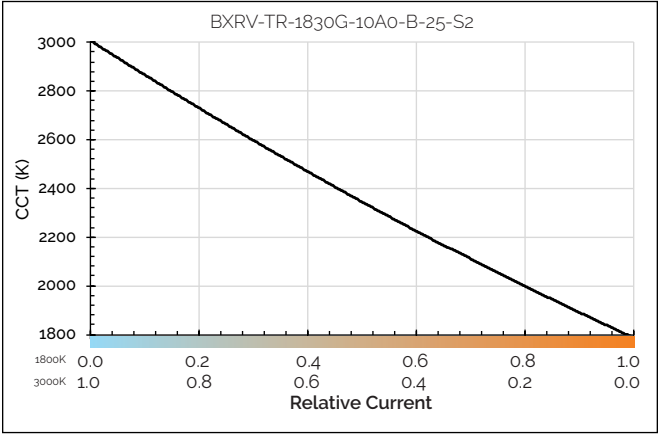
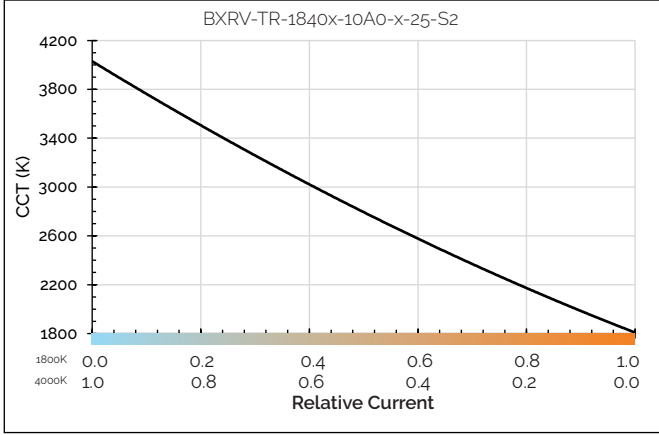


Figure 21: CCT vs. Relative Current, Tc=85C



Performance Curves

Figure 22: Relative Flux vs. Relative Current

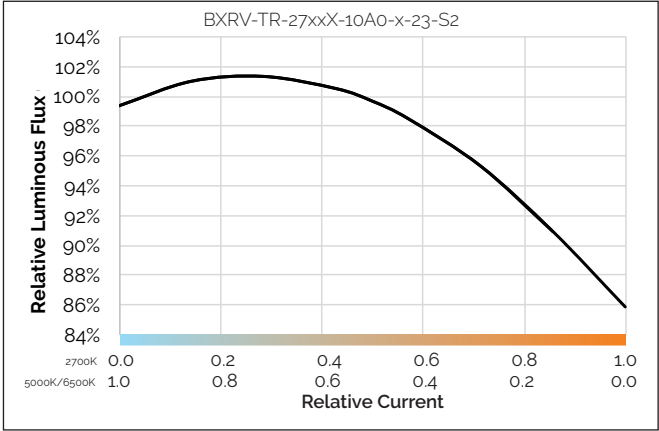


Figure 23: Relative Flux vs. Relative Current

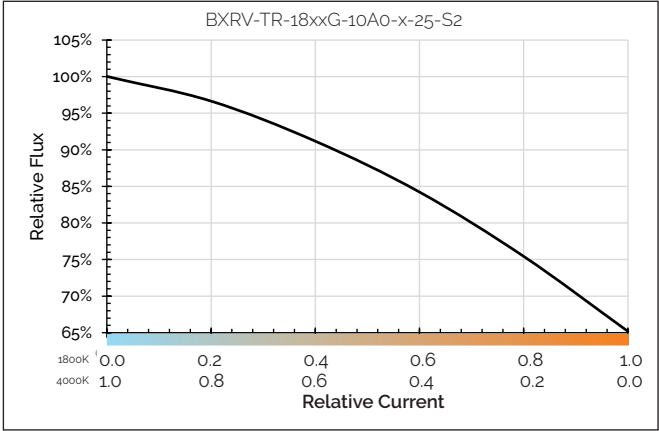


Figure 24: CCT Tuning Range, Tc=85C

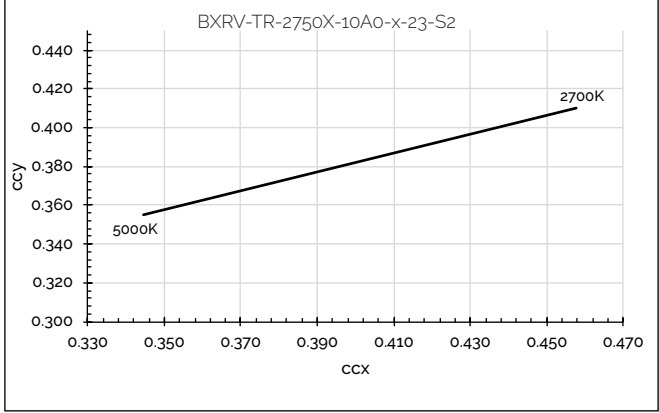


Figure 25: CCT Tuning Range, Tc=85C

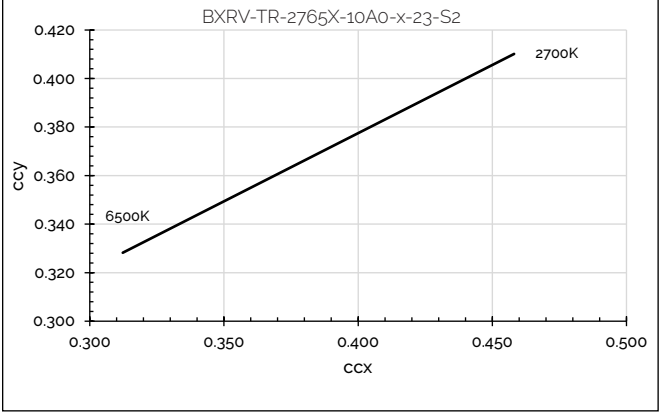


Figure 26: CCT Tuning Range, Tc=85C

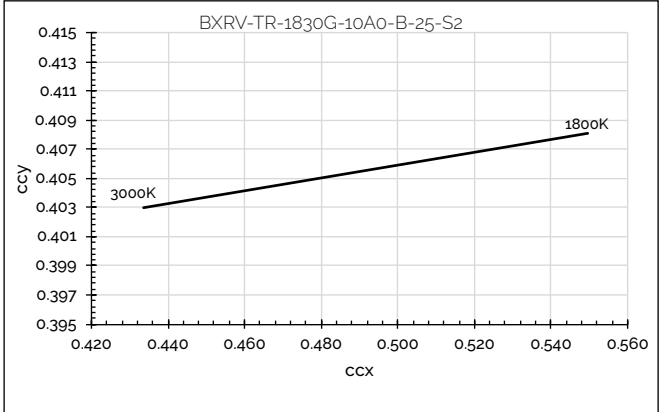
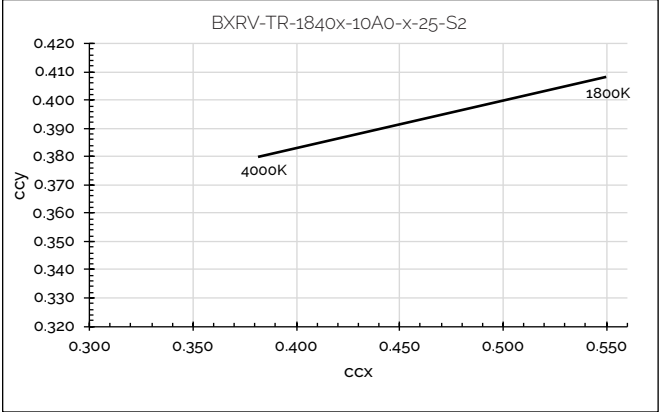
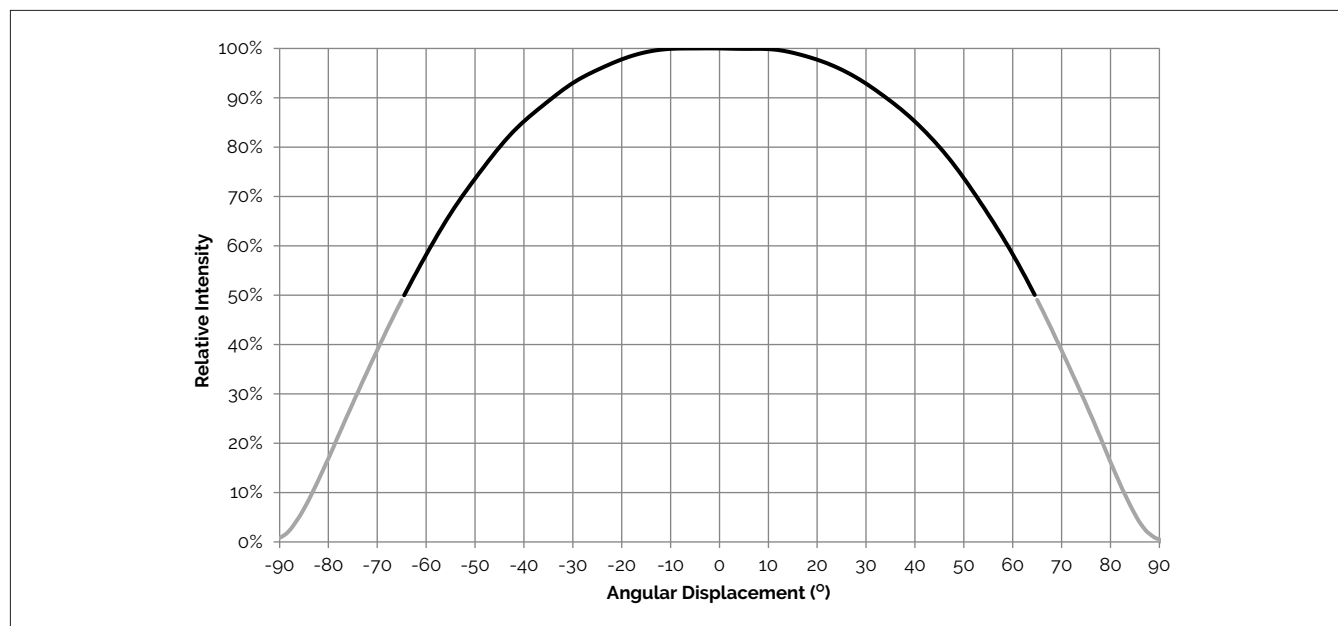


Figure 27: CCT Tuning Range, Tc=85C



Typical Radiation Pattern

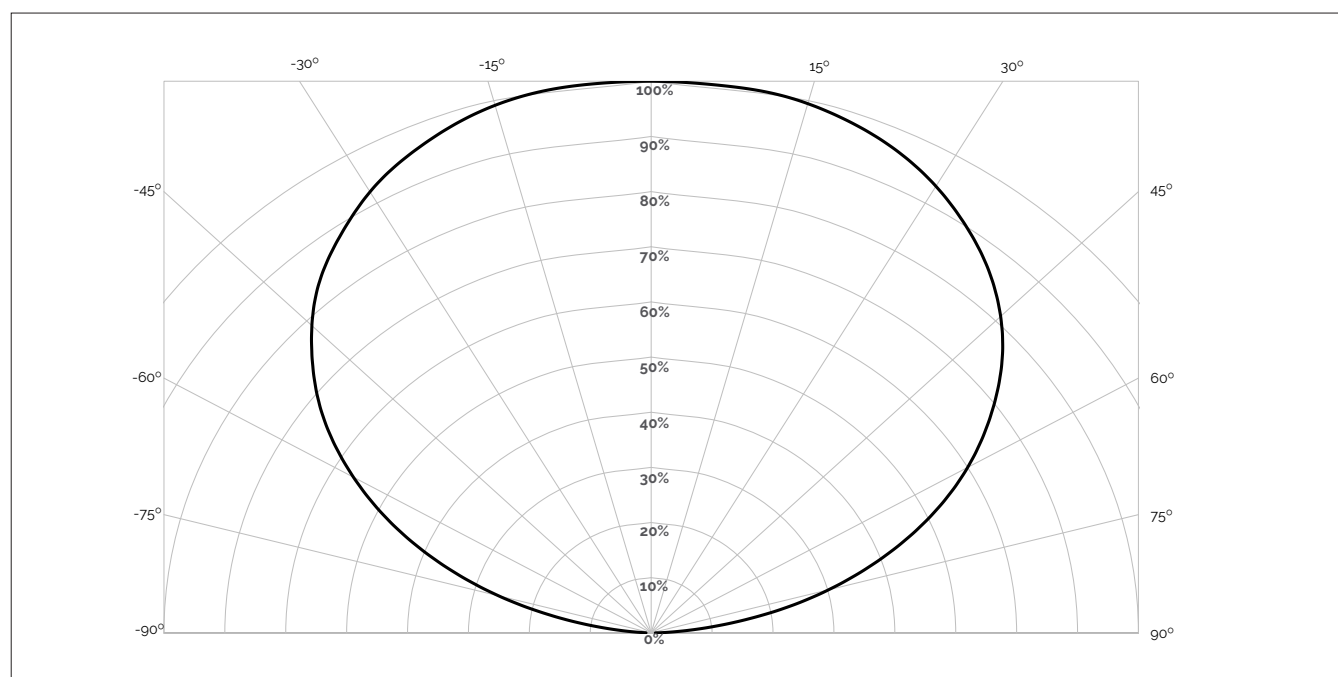
Figure 28: Typical Spatial Radiation Pattern



Notes for Figure 28:

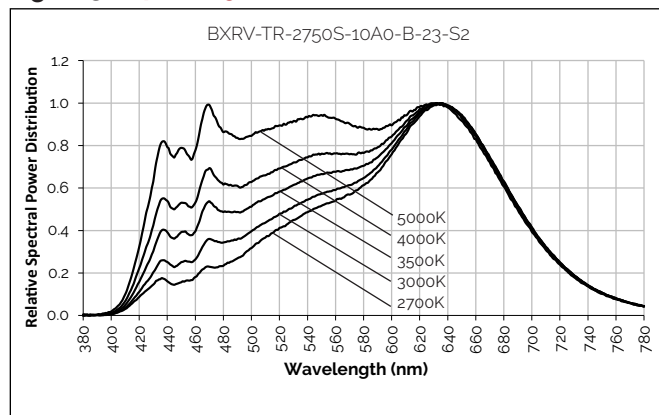
1. Typical viewing angle is 130°.
2. The viewing angle is defined as the off axis angle from the centerline where I_v is $\frac{1}{2}$ of the peak value.

Figure 29: Typical Polar Radiation Pattern



Typical Color Spectrum

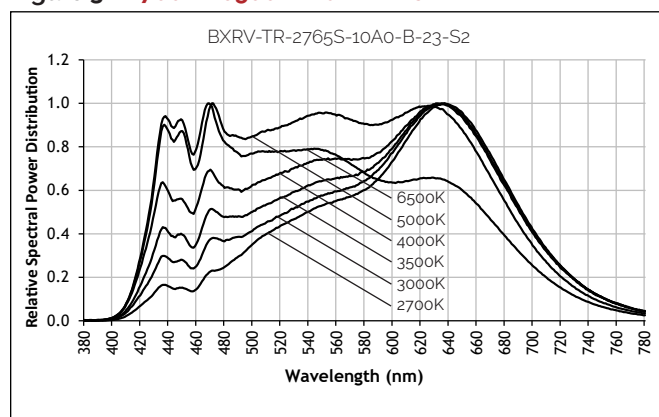
Figure 30: 2700K - 5000K with Thrive



Note for Figure 30:

1. Color spectra measured at nominal current and $T_c = 85^\circ\text{C}$.

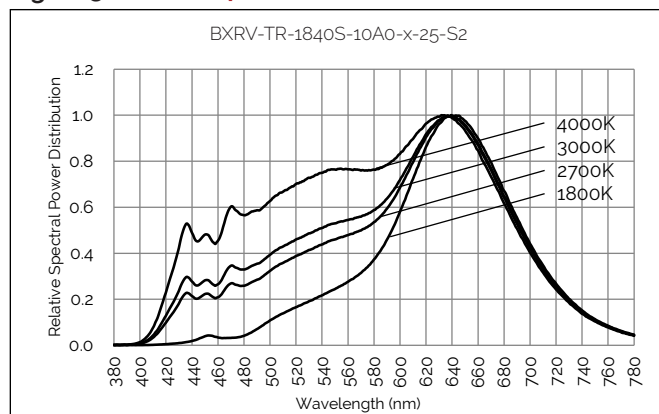
Figure 31: 2700K - 6500K with Thrive



Note for Figure 31:

1. Color spectra measured at nominal current and $T_c = 85^\circ\text{C}$.

Figure 32: 1800K - 4000K with Thrive

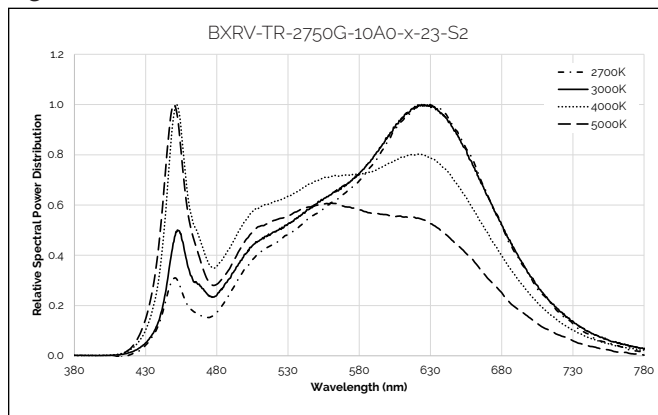


Note for Figure 32:

1. Color spectra measured at nominal current and $T_c = 25^\circ\text{C}$.

Typical Color Spectrum

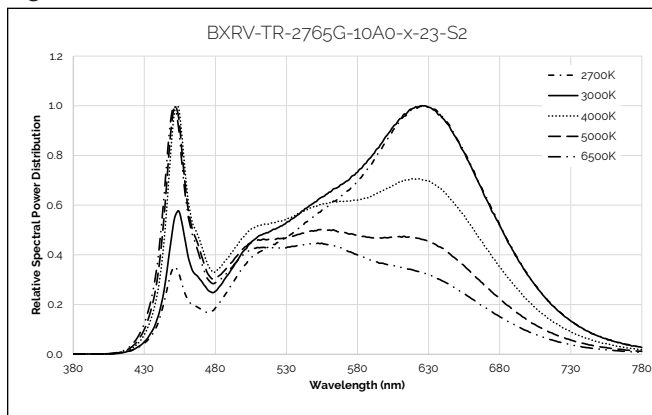
Figure 33: 2700K - 5000K with 90 CRI



Note for Figure 33:

1. Color spectra measured at nominal current and $T_c = 25^\circ\text{C}$.

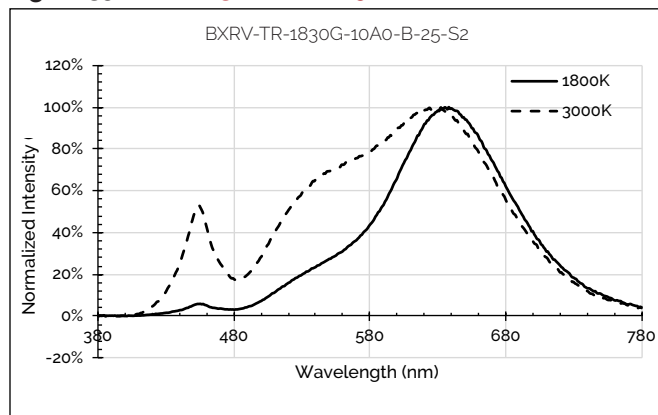
Figure 34: 2700K - 6500K with 90 CRI



Note for Figure 34:

1. Color spectra measured at nominal current and $T_c = 25^\circ\text{C}$.

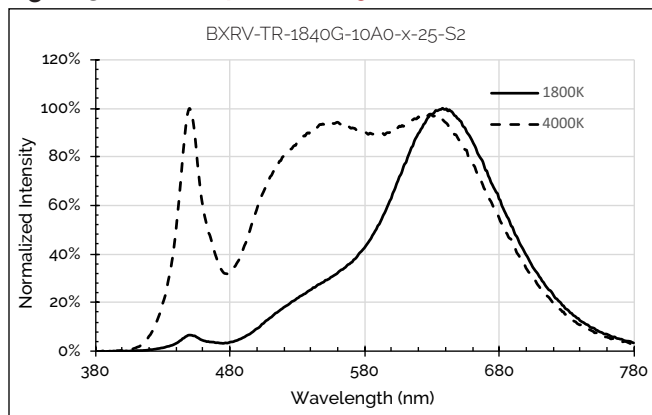
Figure 35: 1800K - 3000K with 90 CRI



Note for Figure 35:

1. Color spectra measured at nominal current and $T_c = 25^\circ\text{C}$.

Figure 36: 1800K - 4000K with 90 CRI



Note for Figure 36:

1. Color spectra measured at nominal current and $T_c = 25^\circ\text{C}$.

Figure 37: Mechanical Drawing Specifications



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Color Binning Information

Figure 38: Graph of Bins in xy Color Space, T_c=85°C

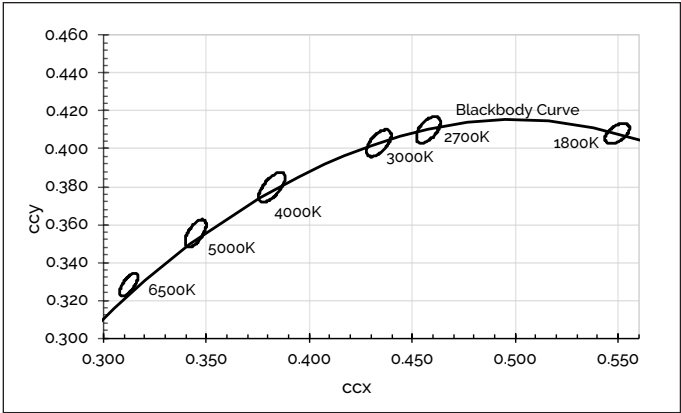


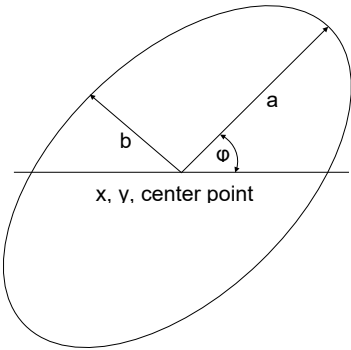
Table 7: McAdam ellipse CCT color bin definitions for product operating at T_c = 85°C

CCT	Center Point	Bin Size	Axis a	Axis b	Rotation Angle
2700K	x=0.4578 y= 0.4101	3 SDCM	0.00810	0.00420	53.70°
5000K	x=0.3447 y=0.3553	3 SDCM	0.00822	0.00354	59.62°
6500K	x=0.3123 y=0.3282	3 SDCM	0.00690	0.00285	58.57°
1800K	x=0.5496 y=0.4081	5SDCM	0.01164	0.00655	40.00°
3000K	x=0.4338 y=0.4030	3SDCM	0.00834	0.00408	53.22°
4000K	x=0.3818 y=0.3797	3SDCM	0.00939	0.00402	53.72°

Notes for Table 7:

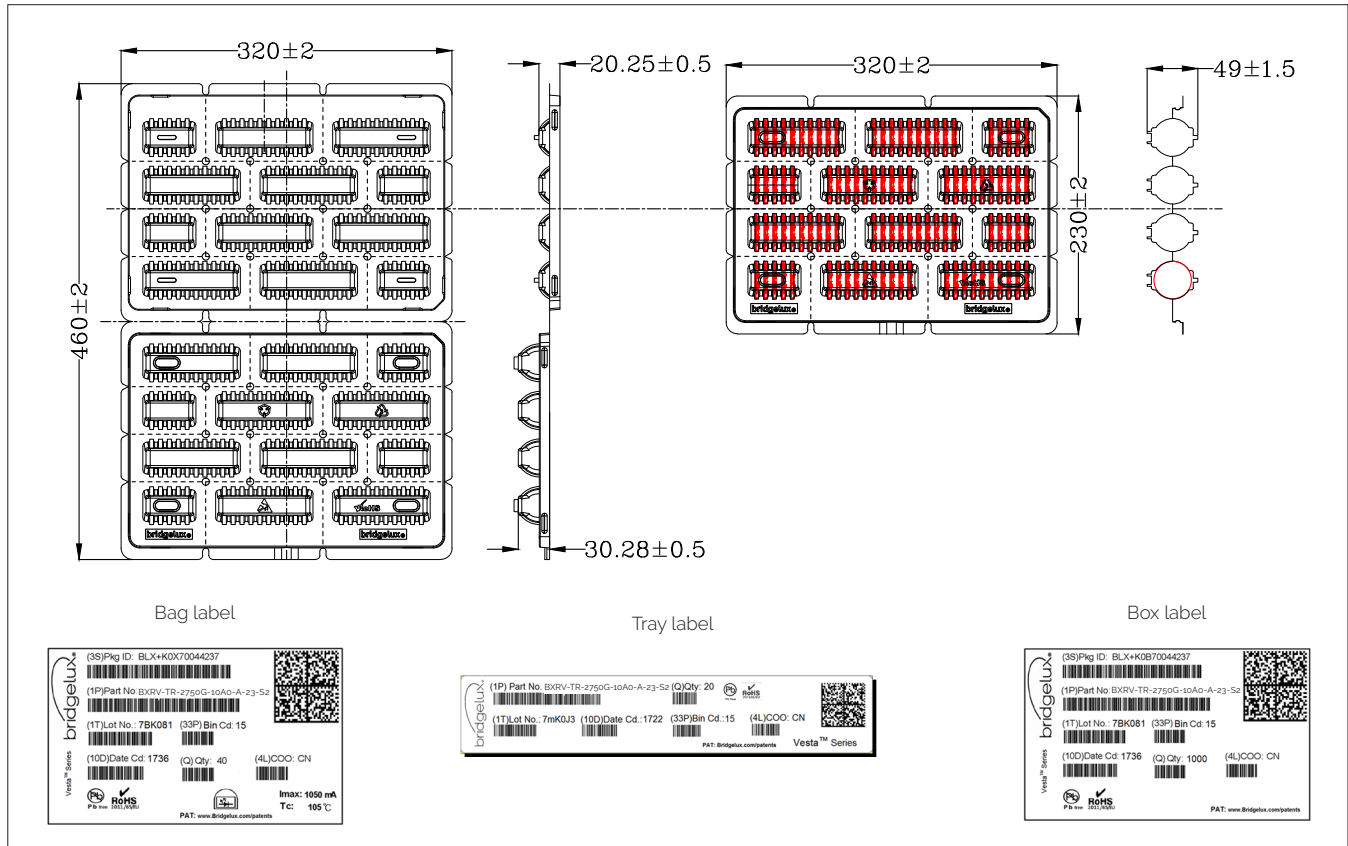
1. The x,y center points are the center points of the respective ANSI bins in the CIE 1931 xy Color Space
2. Products are binned at T_c=85°C
3. Bridgelux maintains a tolerance of +/-0.007 on x and y color coordinates in the CIE 1931 Color Space

Figure 39: Definition of the McAdam ellipse



Packaging and Labeling

Figure 40: Packaging Specifications



Notes for Figure 40:

1. Each plastic tray holds 100 arrays.
2. Each tray is sealed in an anti-static bag. One such bag is placed in a small box and shipped. Depending on quantities ordered, a bigger shipping box, containing multiple small boxes may be used to ship products.
3. Each bag and small box is labeled as shown above.
4. The dimensions of the small shipping box are 350 x 245 x 67 mm.

Figure 41: Product Labeling

Bridgelux arrays have laser markings on the back side of the substrate to help with product identification. In addition to the product identification markings, Bridgelux arrays also contain markings for internal Bridgelux manufacturing use only. The image below shows which markings are for customer use and which ones are for Bridgelux internal use only. The Bridgelux internal manufacturing markings are subject to change without notice, however these will not impact the form, function or performance of the array.



Design Resources

Application Notes

Vesta SE Series Tunable White arrays are intended for use in dry, indoor applications. Bridgelux has developed a comprehensive set of application notes and design resources to assist customers in successfully designing with the Vesta SE Series product family of LED array products. For a list of resources under development, visit www.bridgelux.com.

Optical Source Models

Optical source models and ray set files are available for all Bridgelux products. For a list of available formats, visit www.bridgelux.com.

3D CAD Models

Three dimensional CAD models depicting the product outline of all Bridgelux Vesta SE Series LED arrays are available in both IGS and STEP formats. Please contact your Bridgelux sales representative for assistance.

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Please contact your Bridgelux sales representative for more information.

Precautions

CAUTION: CHEMICAL EXPOSURE HAZARD

Exposure to some chemicals commonly used in luminaire manufacturing and assembly can cause damage to the LED array. Please consult Bridgelux Application Notes, ANg2, ANg3 and AN101 for additional information.

CAUTION: EYE SAFETY

Eye safety classification for the use of Bridgelux Vesta Series is in accordance with IEC/TR62778 specification, 'application of IEC 62471 for the assessment of blue light hazard to light source and luminaires'. Vesta Series Tunable White arrays are classified as Risk Group 1 when operated at or below the maximum drive current. Please use appropriate precautions. It is important that employees working with LEDs are trained to use them safely.

CAUTION: RISK OF BURN

Do not touch the Vesta Series LED array during operation. Allow the array to cool for a sufficient period of time before handling. The Vesta Series LED array may reach elevated temperatures such that could burn skin when touched.

CAUTION

CONTACT WITH LIGHT EMITTING SURFACE (LES)

Avoid any contact with the LES. Do not touch the LES of the LED array or apply stress to the LES (yellow phosphor resin area). Contact may cause damage to the LED array.

Optics and reflectors must not be mounted in contact with the LES (yellow phosphor resin area). Optical devices may be mounted on the top surface of the Vesta Series LED array. Use the mechanical features of the LED array housing, edges and/or mounting holes to locate and secure optical devices as needed.

Disclaimers

STANDARD TEST CONDITIONS

Unless otherwise stated, array testing is performed at the nominal drive current.

MINOR PRODUCT CHANGE POLICY

The rigorous qualification testing on products offered by Bridgelux provides performance assurance. Slight cosmetic changes that do not affect form, fit, or function may occur as Bridgelux continues product optimization.

About Bridgelux: Bridging Light and Life™

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

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Bridgelux Vesta SE Series Tunable White Gen 2 gmm Integrated Array with Sz Holder Product Data Sheet DS361 Rev. C (08/2021)