

Bridgelux® V8 Array Series

Product Data Sheet DS41



BXRE-27x0800 30x0800 35x0800 40x0800 50x0800



Introduction

The V Series LED Array products deliver high quality light in a compact and cost-effective solid-state lighting package. These Chip-on-Board (CoB) arrays can be efficiently driven at twice the nominal drive current, enabling design flexibility not previously possible. This high flux density light source is designed to support a wide range of high quality, low cost directional luminaires and replacement lamps for commercial and residential applications.

The V8 LED Array is available in a variety of electrical, CCT and CRI combinations providing substantial design flexibility and energy efficiencies.

Lighting system designs incorporating these LED Arrays deliver comparable performance to 7-13 Watt compact fluorescent and 40-75 Watt incandescent and halogen based luminaires, delivering increased system level efficacy and longer service life. Typical applications include, but are not limited to, replacement lamps, task, accent, spot, track, down light, wide area, security, and wall pack.

Features

- · Market leading efficacy of 130 lm/W typical
- · Compact high flux density light source
- · Uniform high quality illumination
- · Minimum 70, 80 and 90 CRI options
- · Streamlined thermal path
- Energy Star / ANSI compliant color binning structure with 3SDCM and 4SDCM options
- · More energy efficient than incandescent, halogen and fluorescent lamps
- · Low voltage DC operation
- · Instant light with unlimited dimming

Benefits

- · Enhanced optical control
- · Clean white light without pixilation
- · High quality true color reproduction
- · Significantly reduced thermal resistance and increased operating temperatures
- · Uniform consistent white light
- · Lower operating costs
- · Easy to use with daylight and motion detectors to enable increased energy savings
- Reduced maintenance costs
- · Environmentally friendly, no disposal issue









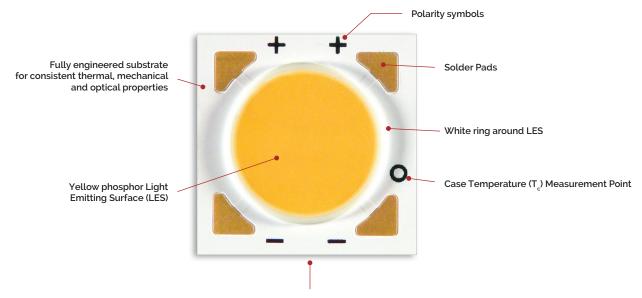
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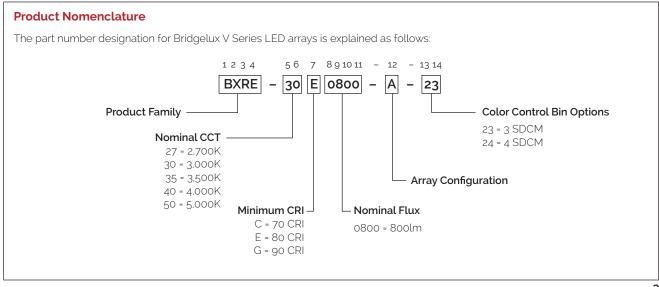
Product Feature Map

Bridgelux arrays are fully engineered devices that provide consistent thermal and optical performance on an engineered mechanical platform. The V Series arrays are the most compact chip-on-board devices across

all of Bridgelux's LED Array products. The arrays incorporate several features to simplify design integration and assembly.



Note: Part number and lot codes are scribed on back of array



Product Selection Guide

The following product configurations are available:

Table 1: Selection Guide, Pulsed Measurement Data (T_i = T_c = 25°C)

Part Number	Nominal CCT¹ (K)	CRI²	Nominal Drive Current³ (mA)	Typical Pulsed Flux ⁴⁵⁶ T _c = 25°C (lm)	Minimum Pulsed Flux ^{6,7} T _c = 25°C (lm)	Typical V _f (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRE-27E0800-A-2x	2700	80	175	740	680	35.6	6.2	119
BXRE-27E0800-B-2x	2700	80	350	740	680	17.8	6.2	119
BXRE-27G0800-A-2x	2700	90	175	590	534	35.6	6.2	95
BXRE-27G0800-B-2x	2700	90	350	590	534	17.8	6.2	95
BXRE-30E0800-A-2x	3000	80	175	785	696	35.6	6.2	126
BXRE-30E0800-B-2x	3000	80	350	785	696	17.8	6.2	126
BXRE-30G0800-A-2x	3000	90	175	625	550	35.6	6.2	100
BXRE-30G0800-B-2x	3000	90	350	625	550	17.8	6.2	100
BXRE-35E0800-A-2x	3500	80	175	803	701	35.6	6.2	129
BXRE-35E0800-B-2x	3500	80	350	803	701	17.8	6.2	129
BXRE-35G0800-A-2x	3500	90	175	661	595	35.6	6.2	106
BXRE-35G0800-B-2x	3500	90	350	661	595	17.8	6.2	106
BXRE-40E0800-A-2x	4000	80	175	820	745	35.6	6.2	132
BXRE-40E0800-B-2x	4000	80	350	820	745	17.8	6.2	132
BXRE-40G0800-A-2x	4000	90	175	670	611	35.6	6.2	108
BXRE-40G0800-B-2x	4000	90	350	670	611	17.8	6.2	108
BXRE-50C0800-A-24	5000	70	175	865	776	35.6	6.2	139
BXRE-50C0800-B-24	5000	70	350	865	776	17.8	6.2	139
BXRE-50E0800-A-24	5000	80	175	820	745	35.6	6.2	132
BXRE-50E0800-B-24	5000	80	350	820	745	17.8	6.2	132

Table 2: Selection Guide, Stabilized DC Performance (T_c = 85°C) 8.9

Part Number	Nominal CCT¹ (K)	CRI²	Nominal Drive Current³ (mA)	Typical DC Flux T _c = 85°C (lm)	Minimum DC Flux ¹⁰ T _c = 85°C (lm)	Typical V _f (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRE-27E0800-A-2x	2700	80	175	665	611	34.6	6.1	110
BXRE-27E0800-B-2x	2700	80	350	665	611	17.4	6.1	109
BXRE-27G0800-A-2x	2700	90	175	519	470	34.6	6.1	86
BXRE-27G0800-B-2x	2700	90	350	519	470	17.4	6.1	85
BXRE-30E0800-A-2x	3000	80	175	703	624	34.6	6.1	116
BXRE-30E0800-B-2x	3000	80	350	703	624	17.4	6.1	116
BXRE-30G0800-A-2x	3000	90	175	550	484	34.6	6.1	91
BXRE-30G0800-B-2x	3000	90	350	550	484	17.4	6.1	90
BXRE-35E0800-A-2x	3500	80	175	719	628	34.6	6.1	119
BXRE-35E0800-B-2x	3500	80	350	719	628	17.4	6.1	118
BXRE-35G0800-A-2x	3500	90	175	582	524	34.6	6.1	96
BXRE-35G0800-B-2x	3500	90	350	582	524	17.4	6.1	96
BXRE-40E0800-A-2x	4000	80	175	739	671	34.6	6.1	122
BXRE-40E0800-B-2x	4000	80	350	739	671	17.4	6.1	121
BXRE-40G0800-A-2x	4000	90	175	590	538	34.6	6.1	97
BXRE-40G0800-B-2x	4000	90	350	590	538	17.4	6.1	97
BXRE-50C0800-A-24	5000	70	175	761	683	34.6	6.1	126
BXRE-50C0800-B-24	5000	70	350	761	683	17.4	6.1	125
BXRE-50E0800-A-24	5000	80	175	722	656	34.6	6.1	119
BXRE-50E0800-B-24	5000	80	350	722	656	17.4	6.1	119

Notes for Tables 1 & 2:

- 1. Nominal CCT as defined by ANSI C78.377-2011.
- 2. CRI Values are minimums. Minimum Rg value for 80 CRI products is 0, the minimum Rg values for 90 CRI products is 50.
- 3. Drive current is referred to as nominal drive current.
- 4. Products tested under pulsed condition (10ms pulse width) at nominal test current where T_i (junction temperature) = T_i (case temperature) = 25°C.
- 5. Typical performance values are provided as a reference only and are not a guarantee of performance.
- 6. Bridgelux maintains a ±7% tolerance on flux measurements.
- 7. Minimum flux values at the nominal test current are guaranteed by 100% test.
- 8. Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.
- 9. 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.
- 10. Minimum flux values at elevated temperatures are provided for reference only and are not guaranteed by 100% production testing. 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.

Performance at Commonly Used Drive Currents

V Series LED arrays are tested to the specifications shown using the nominal drive currents in Table 1. V Series may also be driven at other drive currents dependent on specific application design requirements. The performance at any drive current can be derived from the current vs. voltage characteristics shown in Figures 1 & 2 and the flux vs. current characteristics shown in Figures 3 & 4. The performance at commonly used drive currents is summarized in Table 3.

Table 3: Product Performance at Commonly Used Drive Currents

Part Number	CRI	Drive Current¹ (mA)	Typical V _f T _c = 25°C (V)	Typical Power T _c = 25°C (W)	Typical Flux² T _c = 25°C (lm)	Typical DC Flux³ T _c = 85°C (lm)	Typical Efficacy T _c = 25°C (lm/W)
		175	35.6	6.2	740	665	119
BXRE-27E0800-A-2x	80	250	36.7	9.2	995	893	108
		350	38.1	13.3	1285	1148	96
		175	16.9	3.0	395	357	134
BXRE-27E0800-B-2x	80	350	17.8	6.2	740	665	119
DARE-2/EU000-D-2X	00	500	18.4	9.2	995	893	108
		700	19.2	13.4	1285	1148	96
		175	35.6	6.2	590	519	95
BXRE-27G0800-A-2x	90	250	36.7	9.2	793	698	86
		350	38.1	13.3	1024	897	77
BXRE-27G0800-B-2x	90	175	16.9	3.0	315	279	106
		350	17.8	6.2	590	519	95
		500	18.4	9.2	793	698	86
		700	19.2	13.4	1024	897	76
	80	175	35.6	6.2	785	703	126
BXRE-30E0800-A-2x		250	36.7	9.2	1056	945	115
		350	38.1	13.3	1363	1215	102
		175	16.9	3.0	419	378	142
DVDE an England D av	00	350	17.8	6.2	785	703	126
BXRE-30E0800-B-2x	80	500	18.4	9.2	1056	945	115
		700	19.2	13.4	1363	1215	101
		175	35.6	6.2	625	550	100
BXRE-30G0800-A-2x	90	250	36.7	9.2	840	739	92
		350	38.1	13.3	1085	950	81

Notes for Table 3:

- 1. Alternate drive currents in Table 3 are provided for reference only and are not a guarantee of performance.
- 2. Bridgelux maintains a \pm 7% tolerance on flux measurements.
- 3. Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.

Performance at Commonly Used Drive Currents

Table 3: Product Performance at Commonly Used Drive Currents (Continued)

Part Number	CRI	Drive Current¹ (mA)	Typical V _f T _c = 25°C (V)	Typical Power T _c = 25°C (W)	Typical Flux² T _c = 25°C (lm)	Typical DC Flux³ T _c = 85°C (lm)	Typical Efficacy T _c = 25°C (lm/W)
		175	16.9	3.0	334	296	113
BXRE-30G0800-B-2x	90	350	17.8	6.2	625	550	100
BARL-30G0000-B-2X	90	500	18.4	9.2	840	739	91
		700	19.2	13.4	1085	950	81
		175	35.6	6.2	803	719	129
BXRE-35E0800-A-2x	80	250	36.7	9.2	1080	967	118
		350	38.1	13.3	1394	1242	105
		175	16.9	3.0	429	387	145
DVDE as Fagaa D av	80	350	17.8	6.2	803	719	129
BXRE-35E0800-B-2x		500	18.4	9.2	1080	967	117
		700	19.2	13.4	1394	1242	104
	90	175	35.6	6.2	661	582	106
BXRE-35G0800-A-2x		250	36.7	9.2	889	782	97
		350	38.1	13.3	1148	1004	86
		175	16.9	3.0	353	313	119
DVDE asCagaa D av		350	17.8	6.2	661	582	106
BXRE-35G0800-B-2x	90	500	18.4	9.2	889	782	97
		700	19.2	13.4	1148	1004	85
		175	35.6	6.2	820	739	132
BXRE-40E0800-A-2x	80	250	36.7	9.2	1103	993	120
		350	38.1	13.3	1424	1276	107
		175	16.9	3.0	438	397	148
BXRE-40E0800-B-2x	80	350	17.8	6.2	820	739	132
DAKE-40E0000-B-2X	00	500	18.4	9.2	1103	993	120
		700	19.2	13.4	1424	1276	106

Notes for Table 3:

- 1. Alternate drive currents in Table 3 are provided for reference only and are not a guarantee of performance.
- 2. Bridgelux maintains a \pm 7% tolerance on flux measurements.
- 3. Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.

Performance at Commonly Used Drive Currents

Table 3: Product Performance at Commonly Used Drive Currents (Continued)

Part Number	CRI	Drive Current¹ (mA)	Typical V _f T _c = 25°C (V)	Typical Power T _c = 25°C (W)	Typical Flux² T _c = 25°C (lm)	Typical DC Flux³ T _c = 85°C (lm)	Typical Efficacy T _c = 25°C (lm/W)
		175	35.6	6.2	670	590	108
BXRE-40G0800-A-2x	80	250	36.7	9.2	901	792	98
		350	38.1	13.3	1163	1018	87
		175	16.9	3.0	358	317	121
DVDE 40C0900 D 0v	00	350	17.8	6.2	670	590	108
BXRE-40G0800-B-2x	80	500	18.4	9.2	901	792	98
		700	19.2	13.4	1163	1018	87
BXRE-50C0800-A-24	70	175	35.6	6.2	865	761	139
		250	36.7	9.2	1163	1023	127
		350	38.1	13.3	1502	1314	113
	70	175	16.9	3.0	462	409	156
DVDE 500000 D o.		350	17.8	6.2	865	761	139
BXRE-50C0800-B-24		500	18.4	9.2	1163	1023	126
		700	19.2	13.4	1502	1314	112
		175	35.6	6.2	820	722	132
BXRE-50E0800-A-24	80	250	36.7	9.2	1103	970	120
		350	38.1	13.3	1424	1246	107
		175	16.9	3.0	438	388	148
DVDE FOEOROO D A	80	350	17.8	6.2	820	722	132
BXRE-50E0800-B-24	00	500	18.4	9.2	1103	970	120
		700	19.2	13.4	1424	1246	106

Notes for Table 3

- 1. Alternate drive currents in Table 3 are provided for reference only and are not a guarantee of performance.
- 2. Bridgelux maintains a \pm 7% tolerance on flux measurements.
- 3. Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.

Electrical Characteristics

Table 4: Electrical Characteristics

		Forward Voltage Pulsed, T _c = 25°C (V) ^{1, 2}		Typical Coefficient	Typical Thermal	Driver Selection Voltages⁵ (V)		
Part Number	Drive Current (mA)	Minimum	Typical	Maximum	of Forward Voltage³ ∆V _r ∕∆T _c (mV/°C)	Resistance Junction to Case ⁴ R _{j-c} (°C/W)	V _r Min. Hot T _c = 105°C (V)	V _f Max. Cold T _c = -40°C (V)
DVD5 -00 A -	175	32.9	35.6	38.3	-17	0.71	31.5	39.4
BXRE-xxx0800-A-2x	350	35.1	38.1	41.4	-17	0.81	33.7	42.5
DVDE	350	16.5	17.8	19.2	-7	0.71	15.9	19.7
BXRE-xxx0800-B-2x	700	17.7	19.3	20.8	-7	0.81	17.1	21.3

Notes for Table 4:

- 1. Parts are tested in pulsed conditions, $T_c = 25$ °C. Pulse width is 10ms.
- 2. Voltage minimum and maximum are provided for reference only and are not a guarantee of performance.
- 3. Bridgelux maintains a tester tolerance of ± 0.10V on forward voltage measurements.
- 4. Typical coefficient of forward voltage tolerance is \pm 0.1mV for nominal current.
- 5. Thermal resistance values are based from test data of a 3000K 80 CRI product.
- 6. 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.
- 7. V_r min hot and max cold values 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.

Absolute Maximum Ratings

Table 5: Maximum Ratings

Parameter	Maximuı	m Rating		
LED Junction Temperature (T _j)	150°C			
Storage Temperature	-40°C to +105°C			
Operating Case Temperature¹ (T _c)	105°C			
Soldering Temperature ²	350°C or lower for a maximum of 10 seconds			
	BXRE-xxx0800-A-2x	BXRE-xxx0800-B-2x		
Maximum Drive Current ^{3,4,5}	350 mA	700 mA		
Maximum Peak Pulsed Drive Current ⁶	500 mA	1000mA		
Maximum Reverse Voltage ⁷	-60 V	-30 V		

Notes for Table 5:

- 1. For IEC 62717 requirement, please consult your Bridgelux sales representative.
- 2. Refer to Bridgelux Application Note AN41: Assembly Considerations for Bridgelux V Series LED Arrays.
- 3. DC Forward Current for LM-80 is the maximum drive current for which LM-80 data is currently available.
- 4. Lumen maintenance (L70) 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 for these arrays. Contact your Bridgelux sales representatives for LM-80 report.
- 5. Arrays may be driven at higher currents however lumen maintenance may be reduced.
- 6. Bridgelux recommends a maximum duty cycle of 10% and pulse width of 20 ms when operating LED Arrays at maximum peak pulsed current specified. Maximum peak pulsed currents indicate values where LED Arrays can be driven without catastrophic failures.
- Light emitting diodes are not designed to be driven in reverse voltage and will not produce light under this condition. Maximum rating provided for reference only.

Figure 1: Drive Current vs. Voltage ($T_i=T_c=25^{\circ}C$) – BXRE-xxx0800-A-2x

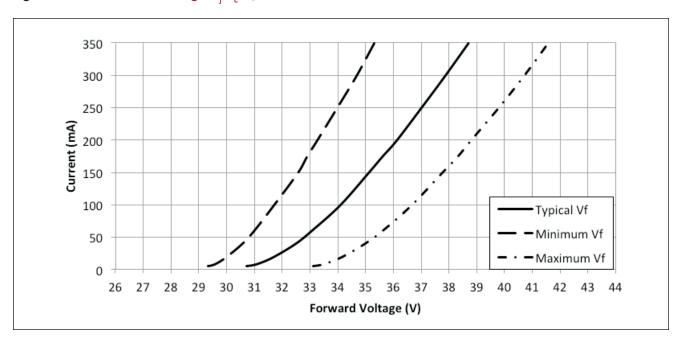


Figure 2: Drive Current vs. Voltage (T_i=T_c=25°C) – BXRE-xxx0800-B-2x

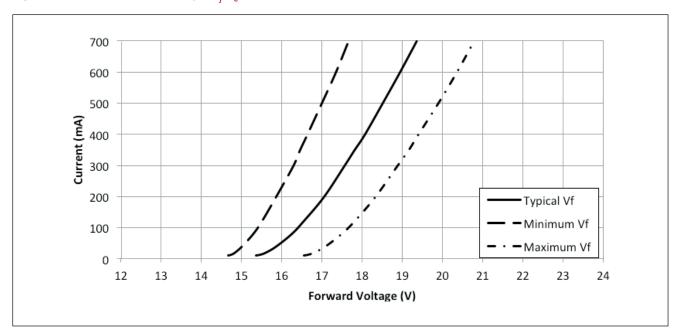


Figure 3: Typical Relative Luminous Flux vs. Current - BXRE-xxx0800-A-2x

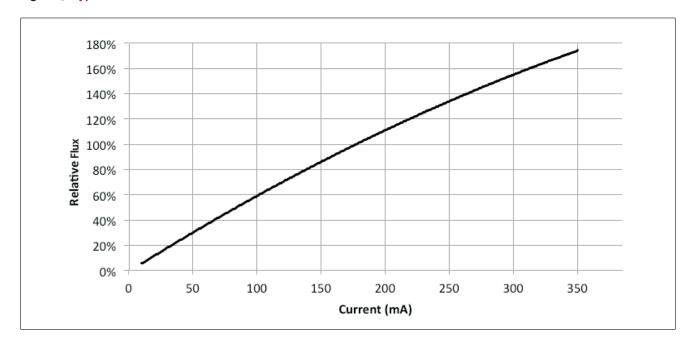
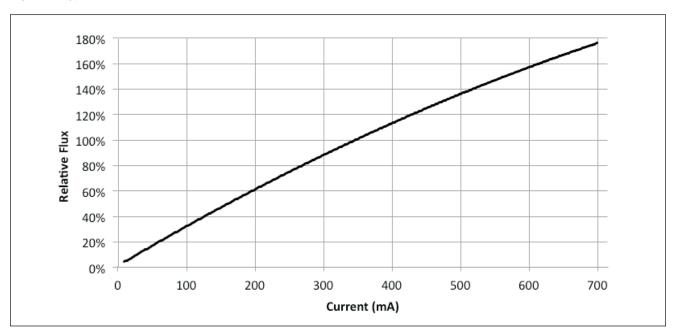


Figure 4: Typical Relative Luminous Flux vs. Current - BXRE-xxx0800-B-2x



Note for Figures 3-4:

^{1.} Bridgelux does not recommend driving high power LEDs at low currents. Doing so may produce unpredictable results. Pulse width modulation (PWM) is recommended for dimming effects.

Figure 5: Typical DC Flux vs. Case Temperature

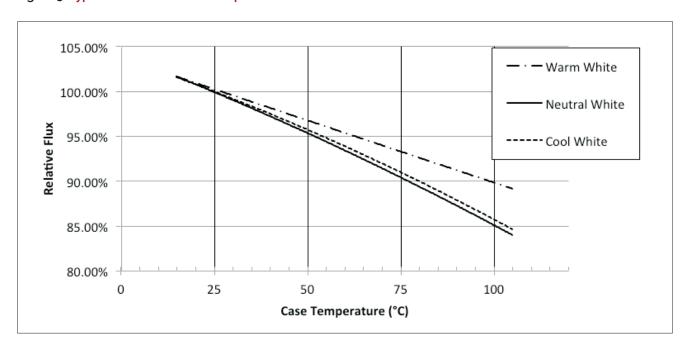
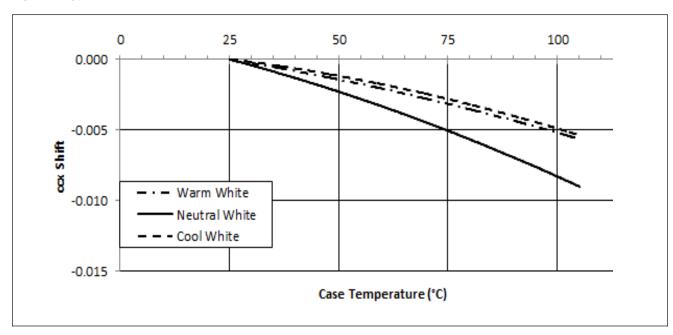


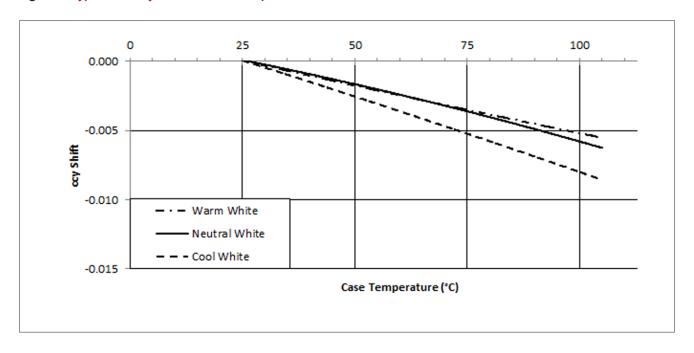
Figure 6: Typical DC ccx Shift vs. Case Temperature



Notes for Figures 5-6:

- 1. Characteristics shown for warm white based on 3000K and 80 CRI.
- 2. Characteristics shown for neutral white based on 4000K and 80 CRI.
- 3. Characteristics shown for cool white based on 5000K and 70 CRI.
- 4. For other color SKUs, the shift in color will vary. Please contact your Bridgelux Sales Representative for more information.

Figure 7: Typical DC ccy Shift vs. Case Temperature

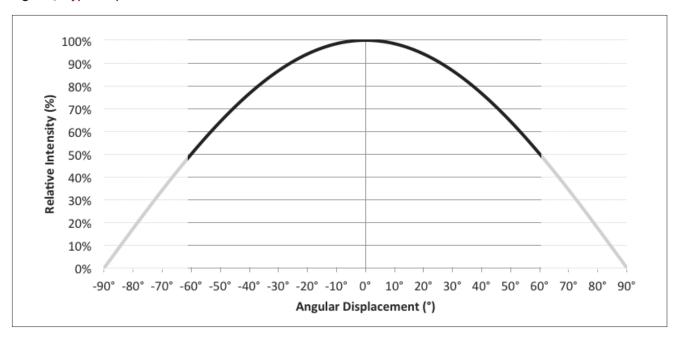


Notes for Figure 7:

- 1. Characteristics shown for warm white based on 3000K and 80 CRI.
- 2. Characteristics shown for neutral white based on 4000K and 80 CRI.
- 3. Characteristics shown for cool white based on 5000K and 70 CRI.
- 4. For other color SKUs, the shift in color will vary. Please contact your Bridgelux Sales Representative for more information.

Typical Radiation Pattern

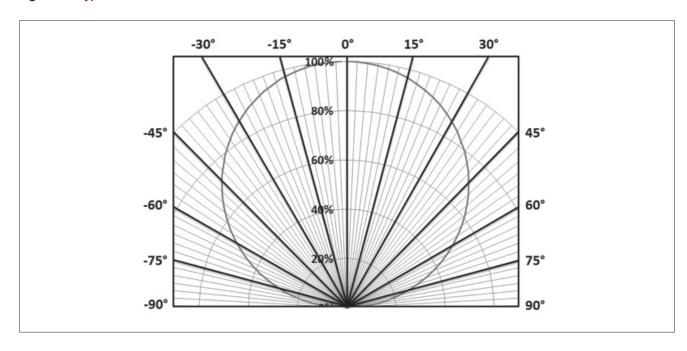
Figure 9: Typical Spatial Radiation Pattern



Notes for Figure 9:

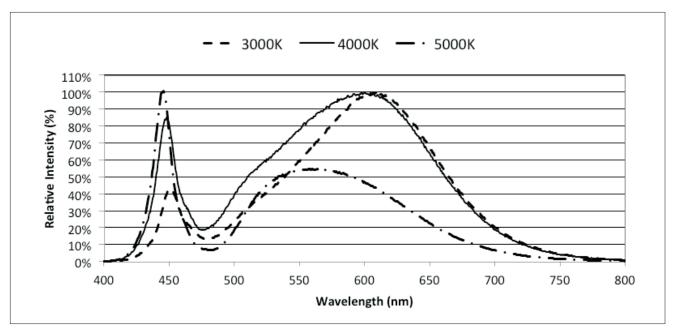
- 1. Typical viewing angle is 120°.
- 2. The viewing angle is defined as the off axis angle form the centerline where Iv is ½ of the peak value.

Figure 10: Typical Polar Radiation Pattern



Typical Color Spectrum

Figure 11: Typical Color Spectrum

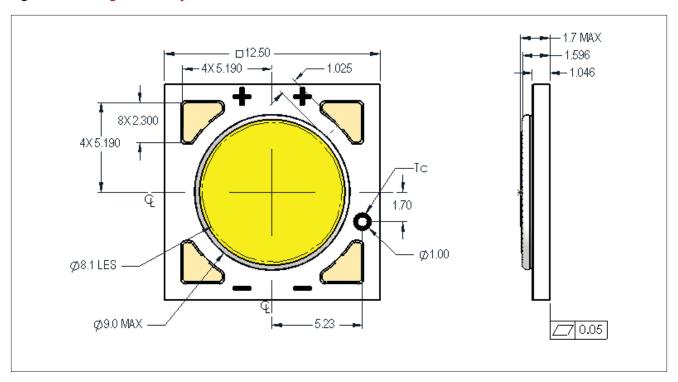


Notes for Figure 11:

- 1. Color spectra measured at nominal current for T_i = T_c = 25°C.
- 2. Color spectra shown for warm white is 3000K and 80 CRI.
- 3. Color spectra shown for neutral white is 4000K and 80 CRI.
- 4. Color spectra shown for cool white is 5000K and 70 CRI.

Mechanical Dimensions

Figure 12: Drawing for V8 Arrays

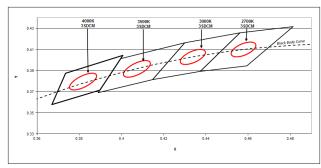


Notes for Figure 12:

- 1. Solder pads are labeled "+" and "-"to denote positive and negative polarity, respectively.
- 2. It is not necessary to provide electrical connections to both sets of solder pads. Either set may be used depending on application specific design requirements.
- 3. Drawings are not to scale.
- 4. Drawing dimensions are in millimeters.
- 5. Unless otherwise specified, tolerances are ± 0.10mm.
- 6. The optical center of the LED Array is nominally defined by the mechanical center of the array. The light emitting surface (LES) is centered on the mechanical center of the array to a tolerance of ± 0.2 mm
- 7. Bridgelux maintains a flatness of 0.1 mm across the mounting surface of the array. Refer to Application Notes AN40 and AN41 for product handling, mounting and heat sink recommendations.

Color Binning Information

Figure 13: Graph of Warm and Neutral White Test Bins in xy Color Space

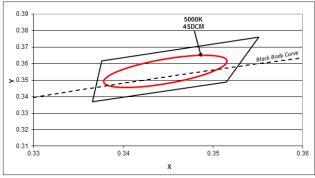


Note: Pulsed Test Conditions, $T_c = 25^{\circ}C$

Table 6: Warm and Neutral White xy Bin Coordinates and Associated Typical CCT

Bin Code	2700K	3000K	3500K	4000K
ANSI Bin (for reference only)	(2580K - 2870K)	(2870K - 3220K)	(3220K - 3710K)	(3710K - 4260K)
23 (3SDCM)	(2651K - 2794K)	(2968K - 3136K)	(3369K - 3586K)	(3851K - 4130K)
Center Point (x,y)	(0.4578, 0.4101)	(0.4338, 0.403)	(0.4073, 0.3917)	(0.3818, 0.3797)

Figure 14: Graph of Cool White Test Bins in xy Color Space



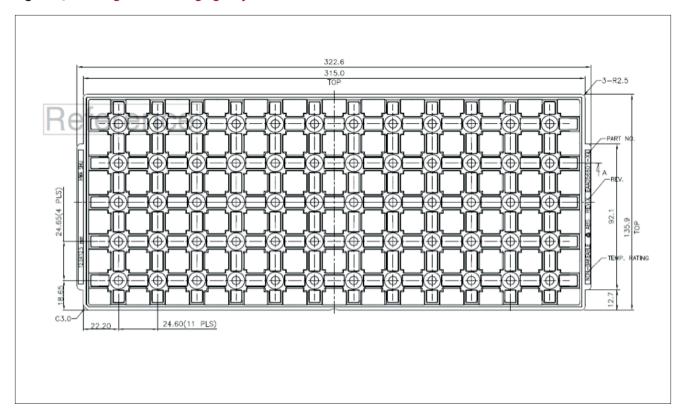
Note: Pulsed Test Conditions, T_c = 25°C

 Table 7: Cool White xy Bin Coordinates and Associated Typical CCT

Bin Code	5000K
ANSI Bin (for reference only)	(4745K - 5311K)
24 (4SDCM)	(4801K - 5282K)
Center Point (x,y)	(0.3447, 0.3553)

Packaging and Labeling

Figure 15: Drawing for V8 Packaging Tray

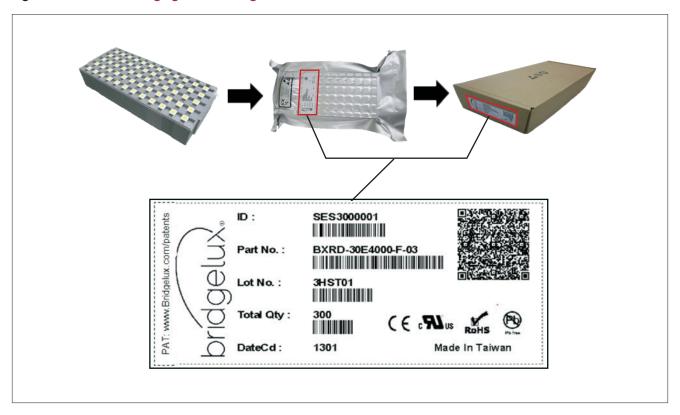


Notes for Figure 16:

- 1. Dimensions are in millimeters
- 2. Tolerances: X.X = \pm 0.25, X.XX = \pm 0.13, X°0' = \pm 0°30'
- 3. Trays are stackable without interference and will not stick together during unstacking operation

Packaging and Labeling

Figure 16: V Series Packaging and Labeling



Notes for Figure 17:

- 1. Each tray holds 60 COB arrays, 10 trays are stacked and one empty tray placed on top to cover the top tray.
- 2. Stacked trays are to contain only 1 part number and be vacuum sealed in an anti-static bag and placed in its own individual box.
- 3. Each bag and box is to be labeled as shown above.

Figure 17: Product Labeling

Bridgelux COB arrays have laser markings on the back side of the substrate to help with product identification. In addition to the product identification markings, Bridgelux COB 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 COB array.



Design Resources

Application Notes

Bridgelux has developed a comprehensive set of application notes and design resources to assist customers in successfully designing with the V Series product family of LED array products. For a list of 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 V Series LED arrays are available in both SAT and STEP formats. Please contact your Bridgelux sales representative for assistance.

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 Note AN41 for additional information.

CAUTION: EYE SAFETY

Eye safety classification for the use of Bridgelux V Series LED arrays is in accordance with IEC specification EN62471: Photobiological Safety of Lamps and Lamp Systems. V Series LED arrays are classified as Risk Group 1 (Low Risk) 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 V Series LED array or yellow resin area during operation. Allow the array to cool for a sufficient period of time before handling. The V 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 plastic housing of the V 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

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.

STANDARD TEST CONDITIONS

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

About Bridgelux

Bridgelux is a leading developer and manufacturer of technologies and solutions transforming the \$40 billion global lighting industry into a \$100 billion market opportunity. Based in Livermore, California, Bridgelux is a pioneer in solid state lighting (SSL), expanding the market for light emitting diode (LED) technologies by driving down the cost of LED lighting systems. Bridgelux's patented light source technology replaces traditional technologies (such as incandescent, halogen, fluorescent and high intensity discharge lighting) with integrated, solid state lighting solutions that enable lamp and luminaire manufacturers to provide high performance and energy efficient white light for the rapidly growing interior and exterior lighting markets, including street lights, commercial lighting and consumer applications.

For more information about the company, please visit bridgelux.com.



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