



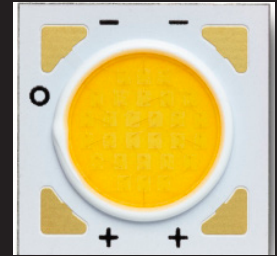
Bridgelux® Gen 7 V8 Array

Product Data Sheet DS104



Introduction

V Series



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 CCT and CRI combinations providing substantial design flexibility and energy efficiencies.

Lighting system designs incorporating these LED arrays deliver increased system level efficacy and longer service life. Typical lighting applications include, but are not limited to, replacement lamps, accent, spot, track, down light, wide area, security, and wall pack.

Features

- Efficacy of 150 lm/W typical for 3000K, 80 CRI
- 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 3 SDCM standard
- More energy efficient than incandescent, halogen and fluorescent lamps
- Low voltage DC operation
- Instant light with unlimited dimming
- V_f bin code backside marking

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 issues



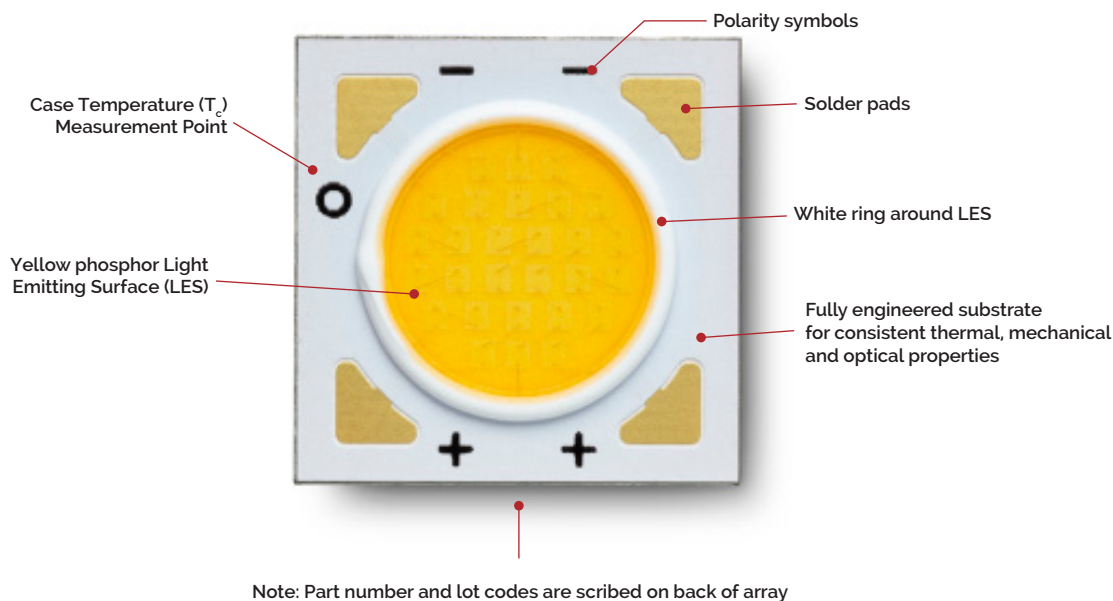
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Product Feature Map

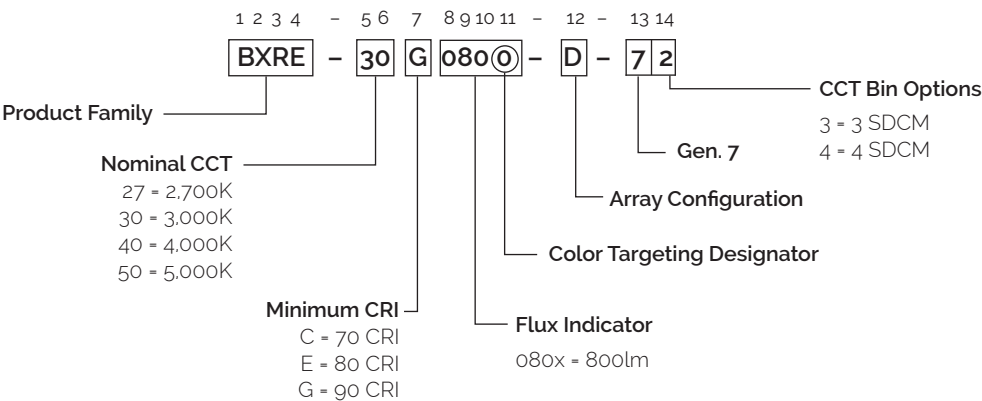
Bridgelux arrays are fully engineered devices that provide consistent thermal and optical performance on an engineered mechanical platform. The V Series arrays are the most compact CoB devices across all of

Bridgelux's LED Array products. The arrays incorporate several features to simplify design integration and assembly. Please visit www.bridgelux.com for more information on the V Series family of products.



Product Nomenclature

The part number designation for Bridgelux V Series LED arrays is explained as follows:



Product Selection Guide

The following product configurations are available:

Table 1: Selection Guide, Pulsed Measurement Data ($T_j = T_c = 25^\circ\text{C}$)

Part Number	Nominal CCT ¹ (K)	CRI ²	Nominal Drive Current ³ (mA)	Typical Pulsed Flux ^{4,5,6} $T_c = 25^\circ\text{C}$ (lm)	Minimum Pulsed Flux ^{6,7} $T_c = 25^\circ\text{C}$ (lm)	Typical V_f (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRE-27E0800-D-73	2700	80	350	872	767	17.3	6.1	144
BXRE-27E0800-E-73	2700	80	175	874	770	34.7	6.1	144
BXRE-27G0800-D-73	2700	90	350	727	639	17.3	6.1	120
BXRE-27G0800-E-73	2700	90	175	729	641	34.7	6.1	120
BXRE-30E0800-D-73	3000	80	350	908	799	17.3	6.1	150
BXRE-30E0800-E-73	3000	80	175	911	802	34.7	6.1	150
BXRE-30G0800-D-73	3000	90	350	757	666	17.3	6.1	125
BXRE-30G0800-E-73	3000	90	175	759	668	34.7	6.1	125
BXRE-40E0800-D-73	4000	80	350	945	831	17.3	6.1	156
BXRE-40E0800-E-73	4000	80	175	947	834	34.7	6.1	156
BXRE-40G0800-D-73	4000	90	350	811	714	17.3	6.1	134
BXRE-40G0800-E-73	4000	90	175	814	716	34.7	6.1	134
BXRE-50C0800-D-74	5000	70	350	1035	911	17.3	6.1	171
BXRE-50C0800-E-74	5000	70	175	1038	914	34.7	6.1	171

Notes for Table 1:

1. Nominal CCT as defined by ANSI C78.377-2011.
2. CRI values are minimums and tested at $T_j = T_c = 25^\circ\text{C}$. 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_j (junction temperature) = T_c (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 $\pm 7\%$ tolerance on flux measurements.
7. Minimum flux values at the nominal test current are guaranteed by 100% test.

Product Selection Guide

Table 2: Selection Guide, Stabilized DC Performance ($T_c = 85^\circ\text{C}$)

Part Number	Nominal CCT ¹ (K)	CRI ²	Nominal Drive Current ³ (mA)	Typical DC Flux ^{4,5} $T_c = 85^\circ\text{C}$ (lm)	Minimum DC Flux ⁶ $T_c = 85^\circ\text{C}$ (lm)	Typical V_f (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRE-27E0800-D-73	2700	80	350	785	691	16.7	5.8	134
BXRE-27E0800-E-73	2700	80	175	787	693	33.4	5.9	134
BXRE-27G0800-D-73	2700	90	350	654	575	16.7	5.8	112
BXRE-27G0800-E-73	2700	90	175	656	577	33.4	5.9	112
BXRE-30E0800-D-73	3000	80	350	817	719	16.7	5.8	140
BXRE-30E0800-E-73	3000	80	175	820	721	33.4	5.9	140
BXRE-30G0800-D-73	3000	90	350	681	599	16.7	5.8	117
BXRE-30G0800-E-73	3000	90	175	683	601	33.4	5.9	117
BXRE-40E0800-D-73	4000	80	350	850	748	16.7	5.8	145
BXRE-40E0800-E-73	4000	80	175	853	750	33.4	5.9	146
BXRE-40G0800-D-73	4000	90	350	730	643	16.7	5.8	125
BXRE-40G0800-E-73	4000	90	175	732	644	33.4	5.9	125
BXRE-50C0800-D-74	5000	70	350	932	820	16.7	5.8	159
BXRE-50C0800-E-74	5000	70	175	935	822	33.4	5.9	160

Notes for Table 2:

1. Nominal CCT as defined by ANSI C78.377-2011.
2. CRI values are minimums and tested at $T_j = T_c = 25^\circ\text{C}$. 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. Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.
5. 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.
6. 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 and 2 and the flux vs. current characteristics shown in Figure 3 and 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 Current ¹ (mA)	Typical V_f $T_c = 25^\circ\text{C}$ (V)	Typical Power $T_c = 25^\circ\text{C}$ (W)	Typical Flux ² $T_c = 25^\circ\text{C}$ (lm)	Typical DC Flux ³ $T_c = 85^\circ\text{C}$ (lm)	Typical Efficacy $T_c = 25^\circ\text{C}$ (lm/W)
BXRE-27E0800-D-73	80	175	16.6	2.9	450	405	155
		250	16.9	4.2	634	570	150
		350	17.3	6.1	872	785	144
		500	17.8	8.9	1211	1089	136
		700	18.4	12.9	1631	1468	126
BXRE-27E0800-E-73	80	88	33.0	2.9	453	408	156
		125	33.9	4.2	637	574	150
		175	34.7	6.1	874	787	144
		250	35.5	8.9	1213	1092	137
		350	36.8	12.9	1637	1473	127
BXRE-27G0800-D-73	90	175	16.6	2.9	375	337	129
		250	16.9	4.2	528	475	125
		350	17.3	6.1	727	654	120
		500	17.8	8.9	1009	908	113
		700	18.4	12.9	1359	1223	105
BXRE-27G0800-E-73	90	88	33.0	2.9	377	340	130
		125	33.9	4.2	531	478	125
		175	34.7	6.1	729	656	120
		250	35.5	8.9	1011	910	114
		350	36.8	12.9	1364	1228	106
BXRE-30E0800-D-73	80	175	16.6	2.9	469	422	161
		250	16.9	4.2	660	594	156
		350	17.3	6.1	908	817	150
		500	17.8	8.9	1261	1135	142
		700	18.4	12.9	1699	1529	132
BXRE-30E0800-E-73	80	88	33.0	2.9	472	425	162
		125	33.9	4.2	664	597	157
		175	34.7	6.1	911	820	150
		250	35.5	8.9	1264	1137	142
		350	36.8	12.9	1705	1535	132

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 Current ¹ (mA)	Typical V _f T _c = 25°C (V)	Typical Power T _c = 25°C (W)	Typical Flux ² T _c = 25°C (lm)	Typical DC Flux ³ T _c = 85°C (lm)	Typical Efficacy T _c = 25°C (lm/W)
BXRE-30G0800-D-73	90	175	16.6	2.9	390	351	134
		250	16.9	4.2	550	495	130
		350	17.3	6.1	757	681	125
		500	17.8	8.9	1051	946	118
		700	18.4	12.9	1416	1274	110
BXRE-30G0800-E-73	90	88	33.0	2.9	393	354	135
		125	33.9	4.2	553	498	131
		175	34.7	6.1	759	683	125
		250	35.5	8.9	1053	948	119
		350	36.8	12.9	1421	1279	110
BXRE-40E0800-D-73	80	175	16.6	2.9	487	439	168
		250	16.9	4.2	687	618	162
		350	17.3	6.1	945	850	156
		500	17.8	8.9	1311	1180	147
		700	18.4	12.9	1767	1590	137
BXRE-40E0800-E-73	80	88	33.0	2.9	491	442	169
		125	33.9	4.2	690	621	163
		175	34.7	6.1	947	853	156
		250	35.5	8.9	1314	1183	148
		350	36.8	12.9	1773	1596	138
BXRE-40G0800-D-73	90	175	16.6	2.9	419	377	144
		250	16.9	4.2	590	531	139
		350	17.3	6.1	811	730	134
		500	17.8	8.9	1126	1014	126
		700	18.4	12.9	1518	1366	118
BXRE-40G0800-E-73	90	88	33.0	2.9	421	379	145
		125	33.9	4.2	593	534	140
		175	34.7	6.1	814	732	134
		250	35.5	8.9	1129	1016	127
		350	36.8	12.9	1523	1371	118
BXRE-50Co800-D-74	70	175	16.6	2.9	534	481	184
		250	16.9	4.2	753	677	178
		350	17.3	6.1	1035	932	171
		500	17.8	8.9	1437	1294	161
		700	18.4	12.9	1937	1743	150
BXRE-50Co800-E-74	70	88	33.0	2.9	538	484	185
		125	33.9	4.2	757	681	179
		175	34.7	6.1	1038	935	171
		250	35.5	8.9	1440	1296	162
		350	36.8	12.9	1944	1750	151

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 ± 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

Part Number	Drive Current (mA)	Forward Voltage Pulsed, $T_c = 25^\circ\text{C}$ (V) ^{1, 2, 3, 8}			Typical Coefficient of Forward Voltage ⁴ $\Delta V_f / \Delta T_c$ (mV/ $^\circ\text{C}$)	Typical Thermal Resistance Junction to Case ^{5,6} R_{j-c} ($^\circ\text{C}/\text{W}$)	Driver Selection Voltages ⁷ (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)
BXRE-xxx080x-D-7x	350	16.0	17.3	18.6	-7.38	0.75	15.4	19.1
	700	17.0	18.5	19.8	-7.38	0.88	16.4	20.3
BXRE-xxx080x-E-7x	175	32.0	34.7	37.2	-14.76	0.75	33.2	37.7
	350	34.1	36.9	39.7	-14.76	0.88	35.3	40.1

Notes for Table 4:

1. Parts are tested in pulsed conditions, $T_c = 25^\circ\text{C}$. 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 $\pm 0.10\text{V}$ on forward voltage measurements.
4. Typical coefficient of forward voltage tolerance is $\pm 0.1\text{mV}$ 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_f 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.
8. This product has been designed and manufactured per IEC 62031:2014. This product has passed dielectric withstand voltage testing at 1160 V. The working voltage designated for the insulation is 80V d.c. The maximum allowable voltage across the array must be determined in the end product application.

Eye Safety

Table 5: Eye Safety Risk Group (RG) Classifications

Part Number	Drive Current ³ (mA)	CCT ^{1,3}		
		2700K/3000K	4000K	5000K ²
BXRE-xxx080x-D-7x	350	RG1	RG1	RG1
	500	RG1	RG1	RG2
	700	RG1	RG1	RG2
BXRE-xxx080x-E-7x	175	RG1	RG1	RG1
	250	RG1	RG1	RG2
	350	RG1	RG1	RG2

Notes for Table 5:

1. Eye safety classification for the use of Bridgelux V Series LED arrays is in accordance with specification IEC/TR 62778: Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires.
2. For products classified as RG2 at 5000K $E_{\text{thr}} = 1315.8 \text{ lx}$.
3. Please contact your Bridgelux sales representative for E_{thr} values at specific drive currents and CCTs not listed.

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	
Soldering Temperature ²	300°C or lower for a maximum of 6 seconds	
	BXRE-xxx080x-D-7x	BXRE-xxx080x-E-7x
Maximum Drive Current ³	700mA	350mA
Maximum Peak Pulsed Drive Current ⁴	1000mA	500mA
Maximum Reverse Voltage ⁵	-35V	-60V

Notes for Table 6:

1. For IEC 62717 requirement, please consult your Bridgelux sales representative.
2. Refer to Bridgelux Application Note AN101: Handling and Assembly of Bridgelux V Series LED Arrays.
3. Arrays may be driven at higher currents however lumen maintenance may be reduced.
4. 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.
5. 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.

Performance Curves

Figure 1: V8D Drive Current vs. Voltage ($T_j = T_c = 25^\circ\text{C}$)¹

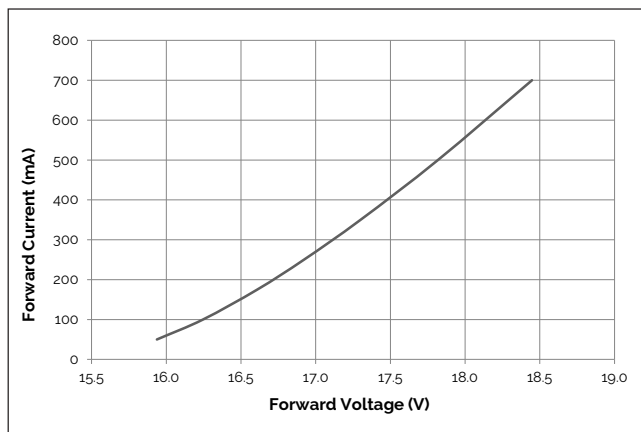


Figure 2: V8E Drive Current vs. Voltage ($T_j = T_c = 25^\circ\text{C}$)¹

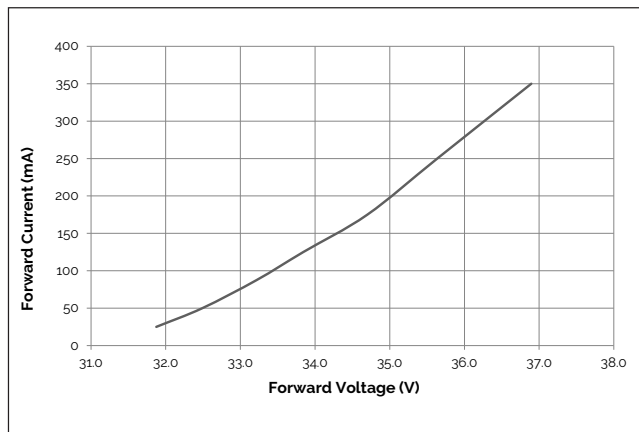


Figure 3: V8D Typical Relative Luminous Flux vs. Drive Current ($T_j = T_c = 25^\circ\text{C}$)¹

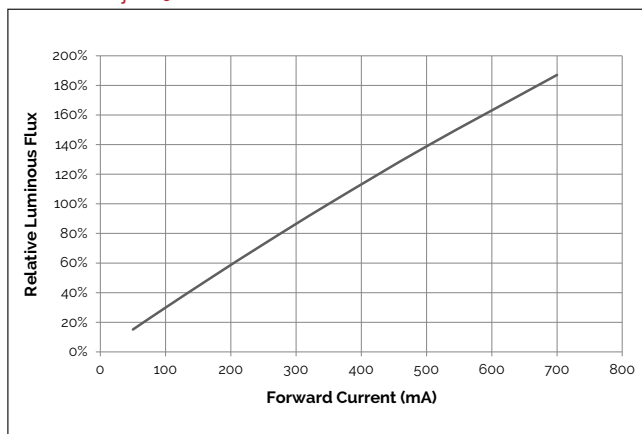
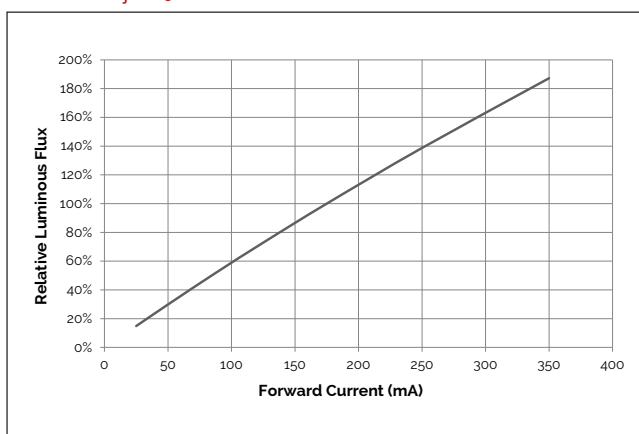


Figure 4: V8E Typical Relative Luminous Flux vs. Drive Current ($T_j = T_c = 25^\circ\text{C}$)¹



Notes for Figures 1 - 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.
2. Characteristics shown for 3000K and 90 CRI.

Performance Curves

Figure 5: Typical DC Flux vs. Case Temperature

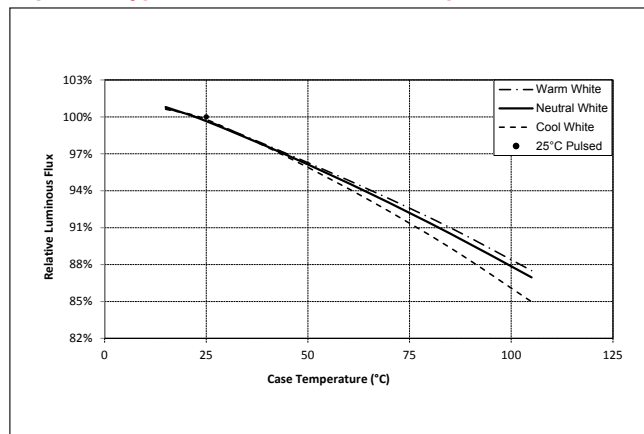


Figure 6: Typical DC ccx Shift vs. Case Temperature

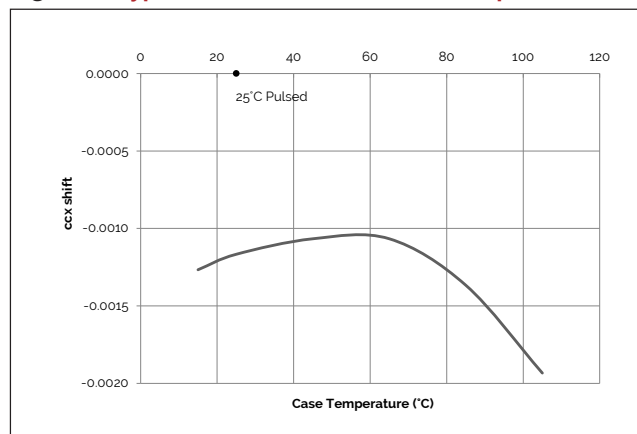
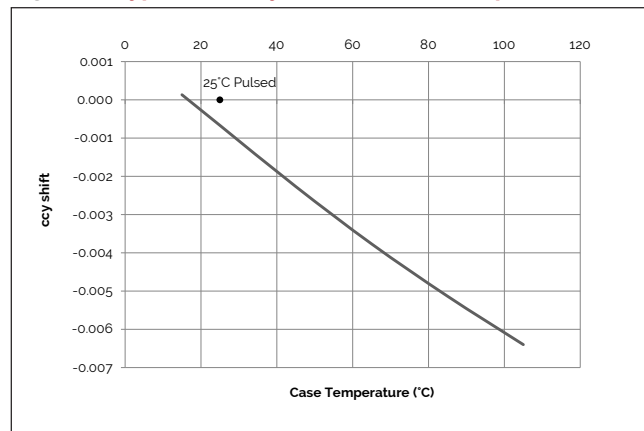
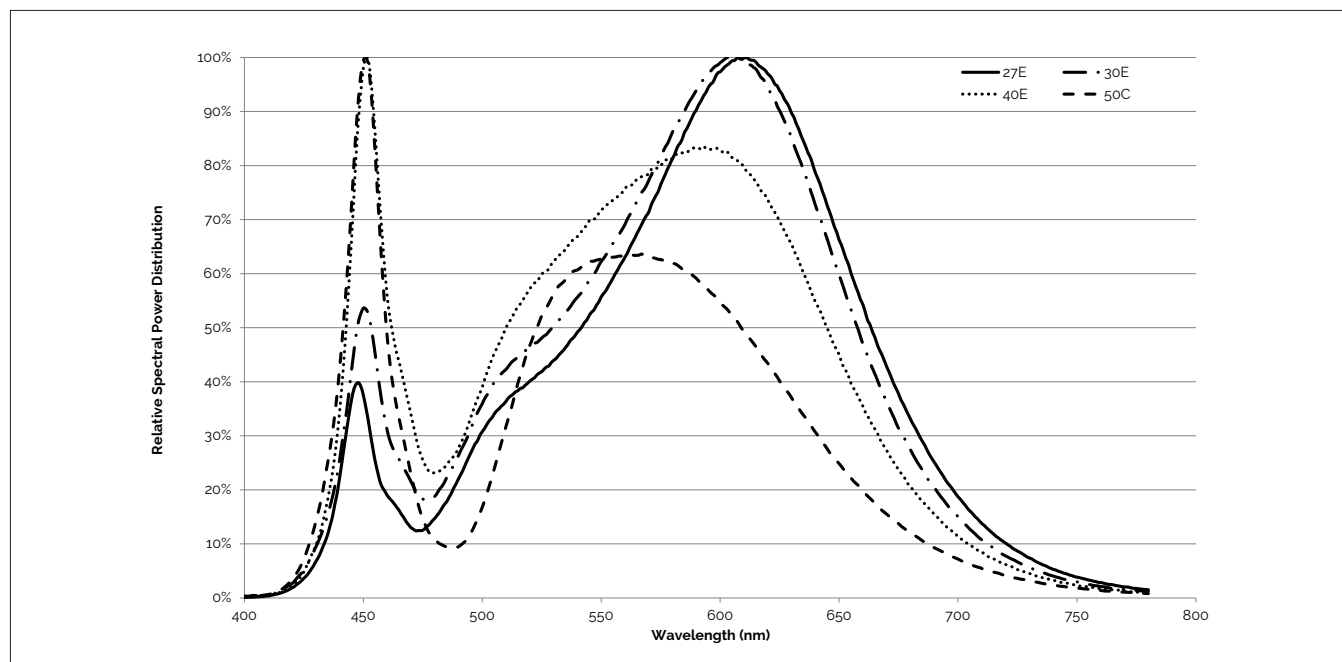


Figure 7: Typical DC ccy Shift vs. Case Temperature



Typical Color Spectrum

Figure 8: Typical Color Spectrum

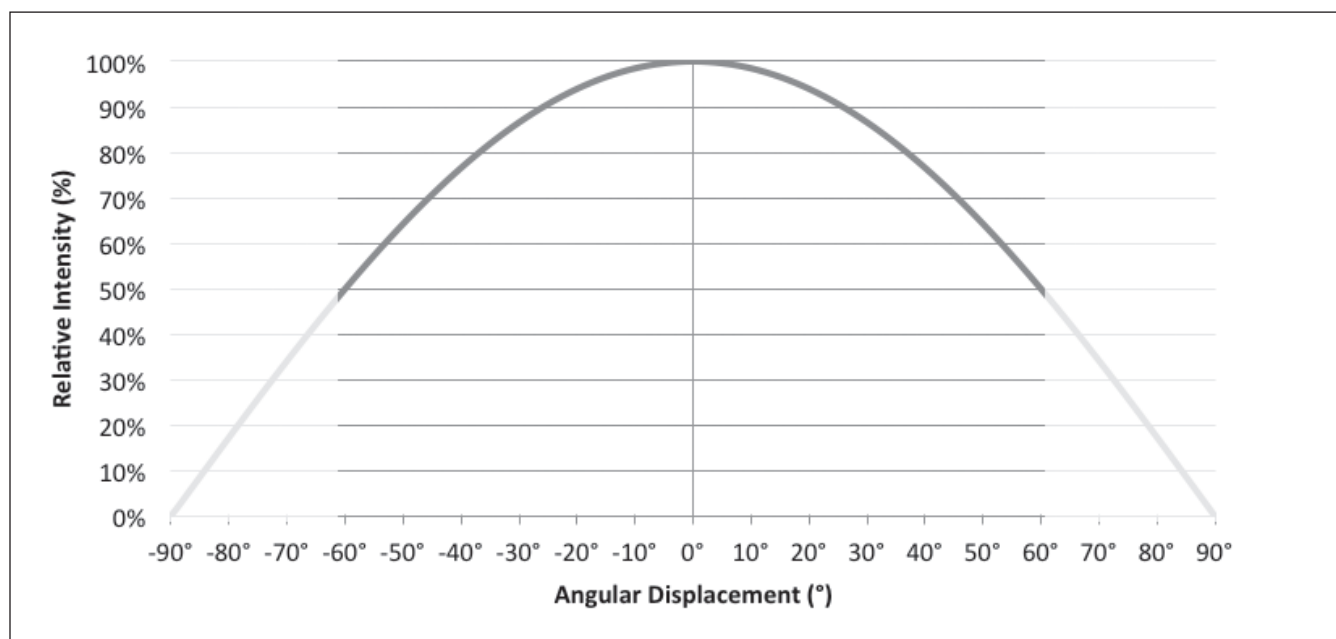


Note for Figure 8:

1. Color spectra measured at nominal current for $T_j = T_c = 25^{\circ}\text{C}$.
2. Color spectra shown is 3000K and 80 CRI.
3. Color spectra shown is 4000K and 80 CRI.
4. Color spectra shown is 5000K and 70 CRI.

Typical Radiation Pattern

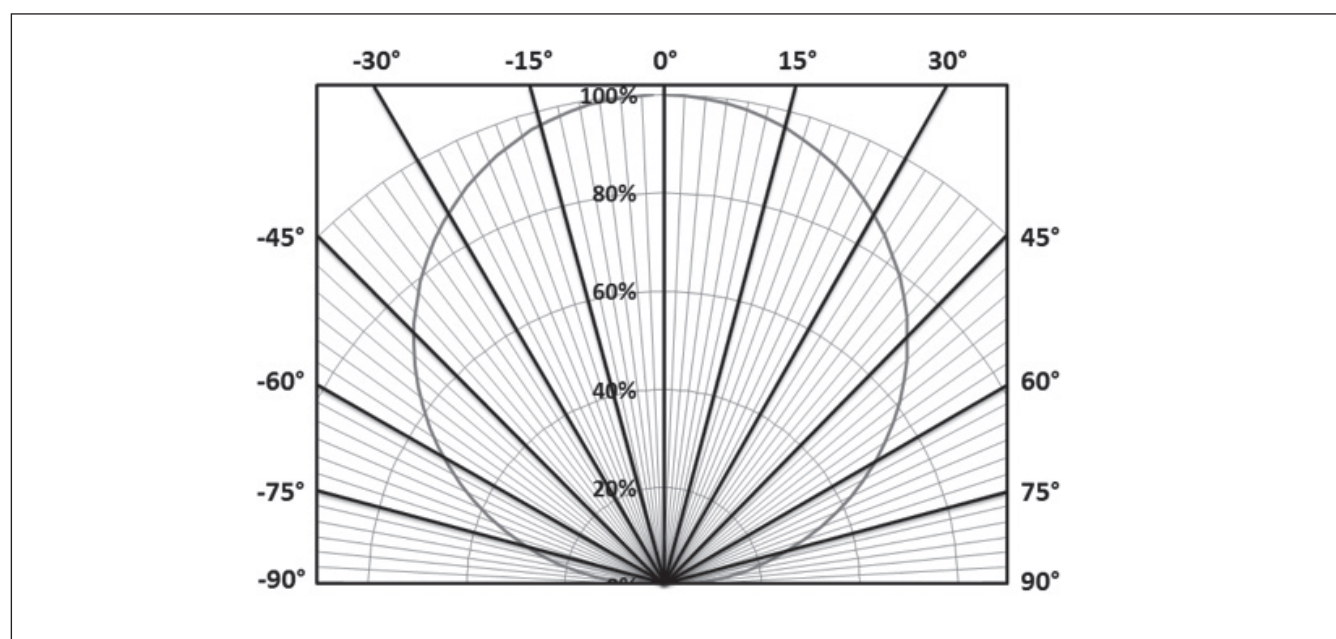
Figure 9: Typical Spatial Radiation Pattern



Note for Figure 9:

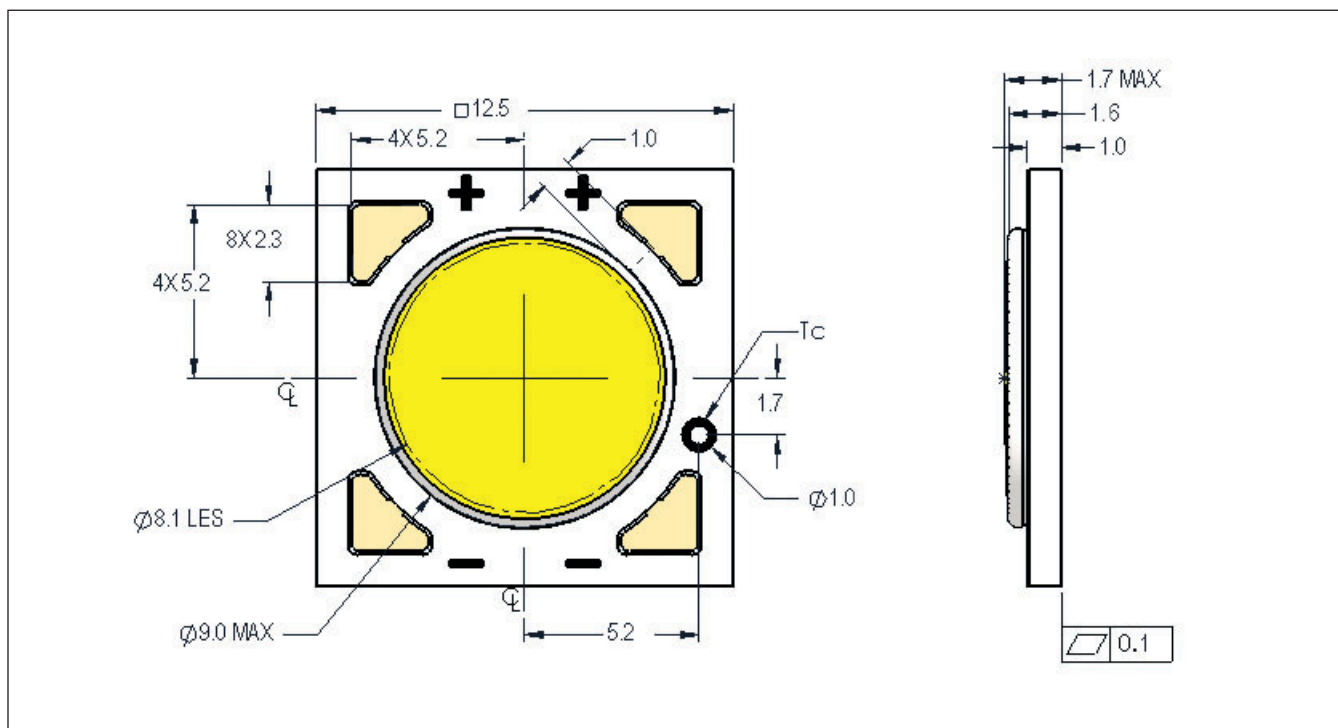
1. Typical viewing angle is 120°.
2. The viewing angle is defined as the off axis angle from the centerline where intensity is $\frac{1}{2}$ of the peak value.

Figure 10: Typical Polar Radiation Pattern



Mechanical Dimensions

Figure 11: V8 LED Array

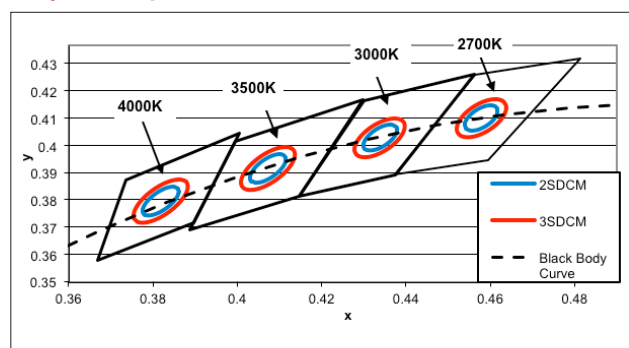


Notes for Figure 11:

1. Drawings are not to scale.
2. Drawing dimensions are in millimeters.
3. Solder pads are labeled "+" and "-" to denote positive and negative polarity, respectively.
4. Unless otherwise specified, tolerances are $\pm 0.1\text{mm}$.
5. Refer to Application Notes AN101 for product handling, mounting and heat sink recommendations.
6. The optical center of the LED Array is nominally defined by the mechanical center of the array to a tolerance of $\pm 0.2\text{mm}$.
7. Bridgelux maintains a flatness of 0.10mm across the mounting surface of the array.

Color Binning Information

Figure 12: Graph of Warm and Neutral White Test Bins in xy Color Space



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

Figure 13: Graph of Cool White Test Bins in xy Color Space

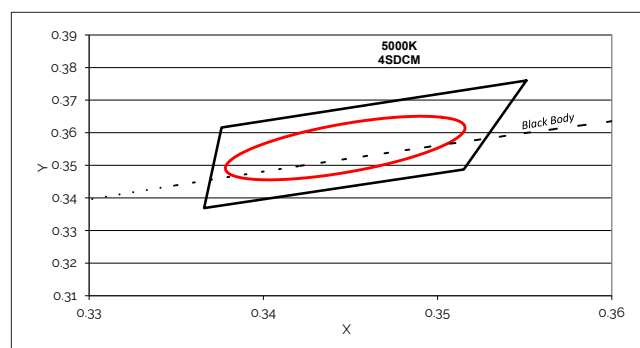


Table 7: Warm and Neutral White xy Bin Coordinates and Associated Typical CCT

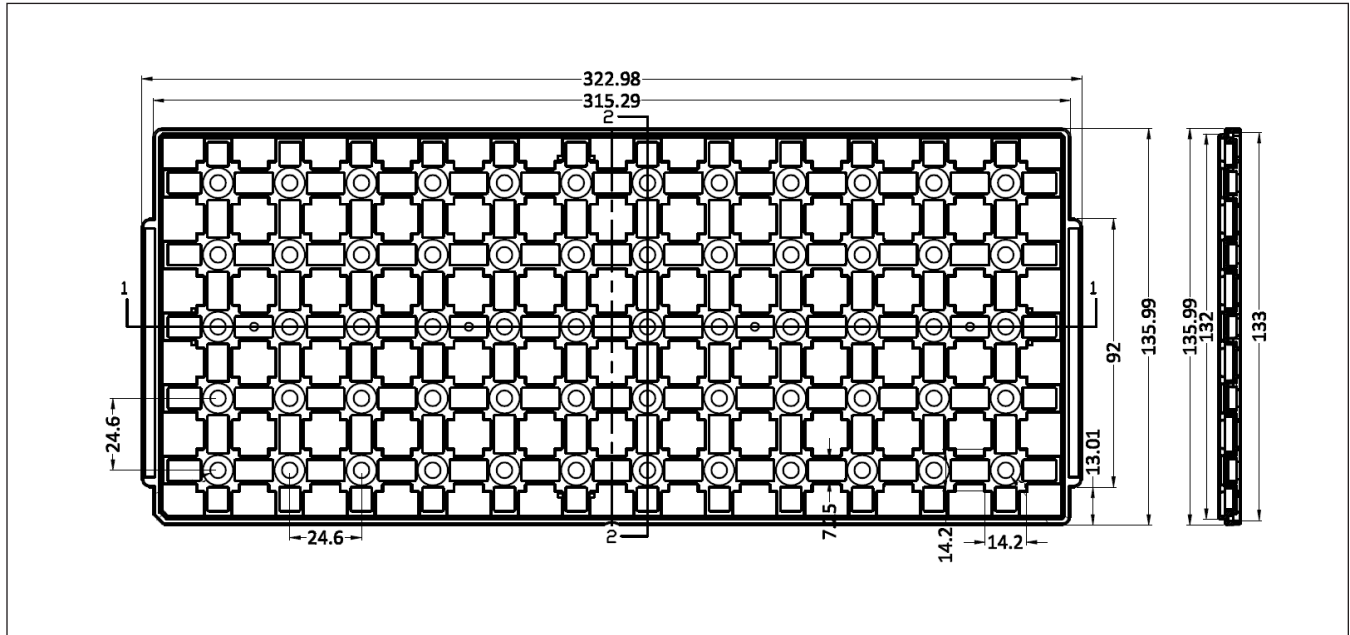
Bin Code	2700K	3000K	3500K	4000K
ANSI Bin (for reference only)	(2580K - 2870K)	(2870K - 3220K)	(3220K - 3710K)	(3710K - 4260K)
72 (2 SDCM)	(2674K - 2769K)	(2995K - 3107K)	(3404K - 3548K)	(3895K - 4081K)
73 (3 SDCM)	(2651K - 2794K)	(2968K - 3136K)	(3369K - 3586K)	(3851K - 4130K)
Center Point (x,y)	(0.4578, 0.4101)	(0.4338, 0.403)	(0.4073, 0.3917)	(0.3818, 0.3797)

Table 8: Cool White xy Bin Coordinates and Associated Typical CCT

Bin Code	5000K
ANSI Bin (for reference only)	(4745K - 5311K)
74 (4 SDCM)	(4801K - 5282K)
Center Point (x,y)	(0.3447, 0.3553)

Packaging and Labeling

Figure 14: Drawing for V8 Packaging Tray



Notes for Figure 14:

1. Dimensions are in millimeters
2. Tolerances: X.X = ± 0.25 , X.XX = ± 0.13 , X"0' = ± 0.30
3. Trays are stackable without interference and will not stick together during unstacking operation

Packaging and Labeling

Figure 15: V8 Packaging and Labeling



Notes for Figure 15:

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 16: Gen. 7 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 all available application notes visit www.bridgelux.com.

Optical Source Models

Optical source models and ray set files are available for all Bridgelux products. Please contact your Bridgelux Sales Representative for more information.

3D CAD Models

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

LM80

LM80 testing has been completed and the LM80 report is now available. Please contact your Bridgelux sales representatives for LM-80 report.

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 AN101 for additional information.

CAUTION: RISK OF BURN

Do not touch the V Series LED array 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). Use the mechanical features of the LED array housing and/or edges 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: We Build Light That Transforms

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
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