



Bridgelux[®] GEN9 V10 BBBL Array Series

Product Data Sheet DS1305-1



V Series



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 more than two times the nominal drive current, enabling design flexibility not previously possible. These high flux density light sources are designed to support a wide range of high quality, low cost directional luminaires and replacement lamps for both interior and exterior commercial and residential applications.

The Gen g V Series COB is a high efficacy product that uses narrow band red phosphor to significantly improve the spectrum efficacy. The improved spectrum efficacy results in the 80 CRI product of the Gen g Series delivering better or equivalent efficacy as that of our previous generation V Series product.

The V10 LED Array is available in a variety of electrical, CCT, and CRI combinations providing substantial design flexibility and energy efficiency advantages.

Lighting system designs incorporating these LED arrays deliver increased system level efficacy and a longer service life. Typical applications include replacement lamps and task, accent, spot, track, wide area, security, wall packs and down lights.

Features

- Efficacy of 189 lm/W typical, 3000K 80 CRI
- Uniform high-quality illumination
- 2 and 3 SDCM binning options (2700K 4000K)
- Forward voltage bin codes and backside marking
- Instant light with unlimited dimming
- 5-Year warranty

Benefit

- Enables high efficiency lighting systems and lower operating costs
- Supports the trend toward luminaire miniaturization and delivers enhanced optical control
- Design flexibility for a broad range of lighting applications
- · Clean white light without pixelation
- · Uniform consistent white light
- · Design flexibility for multi-source applications
- Easy to use with daylight and motion sensors to increase energy savings
- Design with confidence

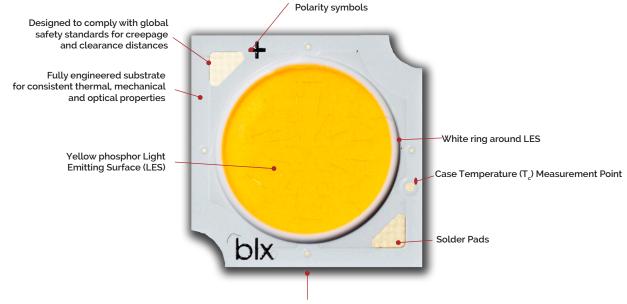


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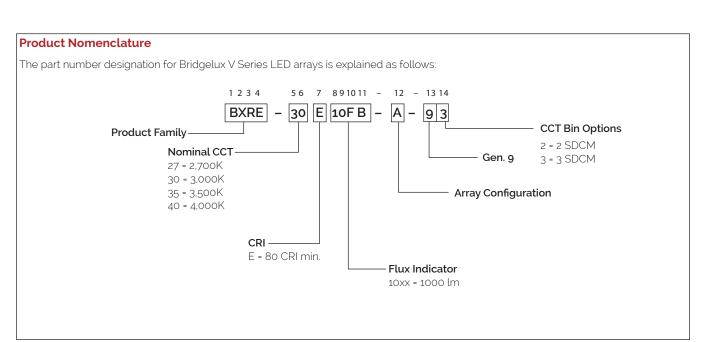
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Product Feature Map

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. Please visit www.bridgelux.com for more information on the V Series family of products.



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



Product Selection Guide

The following product configurations are available:

Part Number	Nominal CCT ¹ (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-27E10FB-A-9x	2700	80	300	1854	1668	33.9	10.2	182
BXRE-27E10FB-B-9x	2700	80	200	1242	1118	33.6	6.7	185
BXRE-30E10FB-A-9x	3000	80	300	1891	1702	33.9	10.2	186
BXRE-30E10FB-B-9x	3000	80	200	1267	1140	33.6	6.7	189
BXRE-35E10FB-A-9x	3500	80	300	1901	1711	33.9	10.2	187
BXRE-35E10FB-B-9x	3500	80	200	1274	1147	33.6	6.7	190
BXRE-40E10FB-A-9x	4000	80	300	1910	1719	33.9	10.2	188
BXRE-40E10FB-B-9x	4000	80	200	1280	1152	33.6	6.7	190

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

Notes for Table 1:

1. Nominal CCT as defined by ANSI C78.377-2011.

2. CRI values are minimums and tested at T, = T, = 85°C. Minimum Rg value for 80 CRI products is 0.Bridgelux maintains a ± 3 tolerance on CRI and Rg values.

3. Drive current is referred to as nominal drive current.

4. Products tested under pulsed condition (10ms pulse width) at nominal drive current where T_i (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 drive current are guaranteed by 100% test.

Product Selection Guide

Table 2: Selection Guide, Stabilized DC Performance ($T_c = 85^{\circ}C$)⁴⁵

Part Number	Nominal CCT ¹ (K)	CRI ²	Nominal Drive Current³ (mA)	Typical DC Flux ⁴⁵ T _c = 85°C (lm)	Minimum DC Flux ⁶ T _c = 85°C (lm)	Typical V _r (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRE-27E10FB-A-9x	2700	80	300	1705	1534	33.3	10.0	171
BXRE-27E10FB-B-9x	2700	80	200	1142	1028	33	6.6	173
BXRE-30E10FB-A-9x	3000	80	300	1740	1566	33.3	10.0	174
BXRE-30E10FB-B-9x	3000	80	200	1165	1049	33	6.6	177
BXRE-35E10FB-A-9x	3500	80	300	1748	1573	33.3	10.0	175
BXRE-35E10FB-B-9x	3500	80	200	1171	1054	33	6.6	177
BXRE-40E10FB-A-9x	4000	80	300	1758	1582	33.3	10.0	176
BXRE-40E10FB-B-9x	4000	80	200	1178	1060	33	6.6	178

Notes for Table 2:

1. Nominal CCT as defined by ANSI C78.377-2011.

2. CRI values are minimums and tested at T_i = T_a = 85°C. Minimum Rg value for 80 CRI products is 0, Bridgelux maintains a ± 3 tolerance on CRI and Rg values.

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.

European Product Registry for Energy Labeling

The European Product Registry for Energy Labeling (EPREL) is defined in the EU Regulation 2017/1369 to provide important energy efficiency information 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 3 below provides a list of part numbers that are in compliance with ELR 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 European Energy Labeling regulation. Customers can use these products with full confidence for any projects that fall under the ELR.

PART NUMBER ¹	сст (К)	CRI	Current² (mA)	Vf (V)	Useful flux ³ (Фuse) at 85C (lm)	Pow- er (W)	Efficacy (lm/W)	Energy efficiency class ⁴	Regis- tration No	URL to Product Information Sheet in EPREL Database
BXRE-27E10FB-A-93	2700	80	720	37.5	3618	27	134	E	1848586	https://eprel.ec.europa.eu/qr/1848586
BXRE-27E10FB-B-93	2700	80	540	37.5	2703	20	133	E	1848587	https://eprel.ec.europa.eu/qr/1848587
BXRE-30E10FB-A-93	3000	80	720	37.5	3690	27	137	E	1848592	https://eprel.ec.europa.eu/qr/1848592
BXRE-30E10FB-B-93	3000	80	540	37.5	2757	20	136	E	1848593	https://eprel.ec.europa.eu/qr/1848593
BXRE-35E10FB-A-93	3500	80	720	37.5	3710	27	137	E	1848598	https://eprel.ec.europa.eu/qr/1848598
BXRE-35E10FB-B-93	3500	80	540	37.5	2772	20	137	E	1848599	https://eprel.ec.europa.eu/qr/1848599
BXRE-40E10FB-A-93	4000	80	720	37.5	3728	27	138	E	1848604	https://eprel.ec.europa.eu/qr/1848604
BXRE-40E10FB-B-93	4000	80	540	37.5	2785	20	138	E	1848605	https://eprel.ec.europa.eu/qr/1848605

Table 3: Part numbers registered in European Product Registry for Energy Labeling

Notes for Table 3:

1. All device listed here must be disposed as e-waste upon its end of life according to local country guideline in each country.

- 2. 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.
- 3. For a definition of useful luminous flux (Ouse), please see the ELR regulations at https://tinyurl.com/4b6zvt4m.
- 4. EPREL requires an arrow symbol containing the letter of the energy efficiency class to be displayed. on technical promotional material. Refer to this energy efficiency class column for specific energy efficiency class on each part number.

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 4.

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 Flux ³ T _c = 85°C (lm)	Typical Efficacy T _c = 25°C (lm/W)
		100	31.7	3.2	636	585	201
		200	32.9	6.6	1259	1157	191
	80	240	33.3	8.0	1500	1379	187
BXRE-27E10FB-A-9x	00	300	33.9	10.2	1854	1705	182
		540	35.9	19.4	3196	2939	164
		720	37.5	27.0	4156	3822	154
		75	31.8	2.4	477	439	200
		150	32.9	4.9	943	867	191
BXRE-27E10FB-B-9x	80	180	33.3	6.0	1123	1033	187
BARE-2/EIUFB-B-9X	00	200	33.6	6.7	1242	1142	185
		405	36.0	14.6	2393	2201	164
		540	37.5	20.3	3112	2862	154
		100	31.7	3.2	649	597	204
		200	32.9	6.6	1284	1181	195
	0.0	240	33.3	8.0	1530	1407	191
BXRE-30E10FB-A-9x	80	300	33.9	10.2	1891	1740	186
		540	35.9	19.4	3261	2999	168
		720	37.5	27.0	4240	3900	157
		75	31.8	2.4	487	448	204
		150	32.9	4.9	962	885	195
	0.5	180	33.3	6.0	1146	1054	191
BXRE-30E10FB-B-9x	80	200	33.6	6.7	1267	1165	188
		405	36.0	14.6	2442	2246	168
		540	37.5	20.3	3177	2922	156
		100	31.7	3.2	653	600	205
		200	32.9	6.6	1291	1188	196
	0.5	240	33.3	8.0	1538	1414	192
BXRE-35E10FB-A-9x	80	300	33.9	10.2	1901	1748	187
		540	35.9	19.4	3277	3014	169
		720	37.5	27.0	4261	3919	157
		75	31.8	2.4	489	449	205
		150	32.9	4.9	967	889	196
	0-	180	33.3	6.0	1152	1059	192
BXRE-35E10FB-B-9x	80	200	33.6	6.7	1274	1171	189
		405	36.0	14.6	2455	2258	169
		540	37.5	20.3	3192	2936	157

Table 4: Product Performance at	Commonly Used Drive Currents
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Notes for Table 4:

1. Alternate drive currents in Table 4 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.

Performance at Commonly Used Drive Currents

Part Number	CRI	Drive Current¹ (mA)	Typical V _r T _c = 25°C (V)	Typical Power T _c = 25°C (W)	Typical Flux² T _c = 25°C (lm)	Typical DC Flux ³ T _c = 85°C (lm)	Typical Efficacy T = 25°C (lm/W)
		100	31.7	3.2	656	603	206
		200	32.9	6.6	1297	1193	197
BXRE-40E10FB-A-9x	80	240	33.3	8.0	1546	1421	193
DARE-40E10FD-A-9X	00	300	33.9	10.2	1910	1758	188
		540	35.9	19.4	3294	3029	170
		720	37.5	27.0	4283	3939	158
		75	31.8	2.4	492	452	206
		150	32.9	4.9	972	894	197
PVDE 40E10ER R OV	80	180	33.3	6.0	1158	1065	193
BXRE-40E10FB-B-9x	00	200	33.6	6.7	1280	1178	190
		405	36.0	14.6	2467	2269	169
		540	37.5	20.3	3208	2951	158

Table 4: Product Performance at Commonly Used Drive Currents (Continued)

Notes for Table 4:

1. Alternate drive currents in Table 4 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.

Table 5: Electrical Characteristics

Part Number		Forward Voltage Pulsed, T _c = 25°C (V) ^{1,2,3,8}			Typical Coefficient	Typical Thermal	Driver Selection Voltages ⁷ (V)	
	Drive Current (mA)	Minimum	Typical	Maximum	of Forward Voltage⁴ ∆V,∕∆T _c (mV/°C)	Resistance Junction to Case ^{5.6} R _{j-c} (°C/W)	V _r Min. Hot T _c = 105°C (V)	Y, Max. Cold T _c = -40°C (V)
	300	31.9	33.9	35.9	-13.32	0.41	31.1	37.2
BXRE-xxx10Fx-A-9x	720	35.3	37.5	39.8	-14.74	0.60	34.4	41.2
BXRE-xxx10Fx-B-9x	200	31.6	33.6	35.6	-13.20	0.62	30.8	36.9
	540	35.3	37.5	39.8	-14.61	0.95	34.4	41.2

Notes for Table 5:

- 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.
- 8. This product has been designed and manufactured per IEC 62031:2018. The working voltage designated for the insulation is 70V d.c. The maximum allowable voltage across the array must be determined in the end product application.

Eye Safety

Table 6: Eye Safety Risk Group (RG) Classifications

Part Number	Drive Current (mA)	cc	CT ³
		2700K/3000K	3500K/4000K²
BXRE-xxx10Fx-B-9x	540	RG1	RG1
	530	RG1	RG1
BXRE-xxx10Fx-A-9x	720	RG1	RG2

Notes for Table 6:

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 4000K, Ethr= 1860 lx.

3. Please contact your Bridgelux sales representative for Ethr values at specific drive currents and CCTs not listed.

Table 7: Maximum Ratings

Parameter	Maximum Rating			
LED Junction Temperature (T _j)	150°C			
Storage Temperature ¹	-40°C to) +105°C		
Operating Case Temperature ² (T _c)	105	5°C7		
Soldering Temperature ³	350°C or lower for a maximum of 6 seconds			
	BXRE-xxx10Fx-A-9x	BXRE-xxx10Fx-B-9x		
Maximum Drive Current ⁴	720 mA	540 mA		
Maximum Peak Pulsed Drive Current⁵	1030mA	770mA		
Maximum Reverse Voltage ⁶	-60V	-60V		

Notes for Table 7:

- 1. The Gen g product is robust enough to pass our internal humidity test but it is still more sensitive compared to regular LED array product The product needs to be stored in a dry environment. It is not recommended to use the product in a damp environment that directly exposes it to moisture.
- 2. For IEC 62717 requirement, please consult your Bridgelux sales representative.
- 3. Refer to Bridgelux Application Note AN101: Handling and Assembly of Bridgelux V Series LED Arrays
- 4. Arrays may be driven at higher currents however lumen maintenance may be reduced and warranty will not apply.
- 5. 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.

- 6. 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.
- 7. For good thermal management and to achieve optimal LED lifetime, please ensure that your thermal design accounts for the temperature of the light emitting surface (LES) to not exceed 140 °C.

Performance Curves

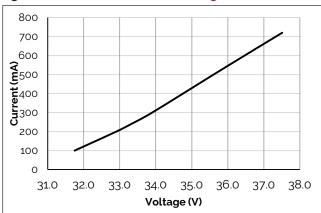
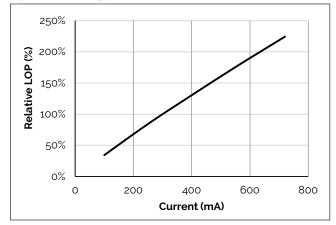


Figure 1: V10A Drive Current vs. Voltage

Figure 3: V10A Typical Relative Flux vs. Current





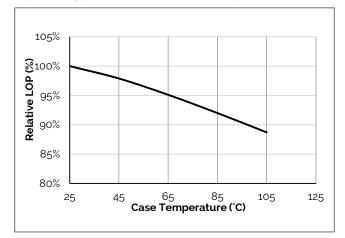
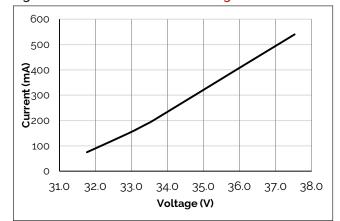
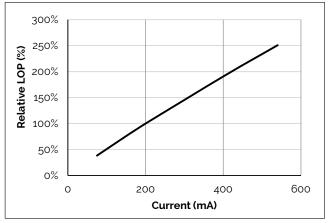


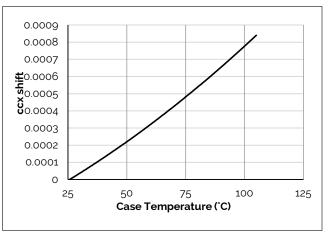
Figure 2: V10B Drive Current vs. Voltage











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. Products tested under pulsed condition (10ms pulse width) at nominal drive current where T_i (junction temperature) = T_c (case temperature) = 25°C.

Note for Figures 5-6:

1. Characteristics shown for Warm White.

Performance Curves

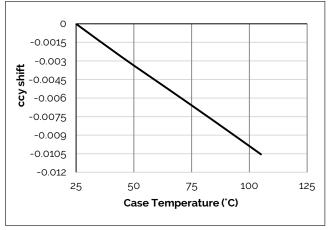


Figure 7: Typical DC ccy Shift vs. Case Temperature



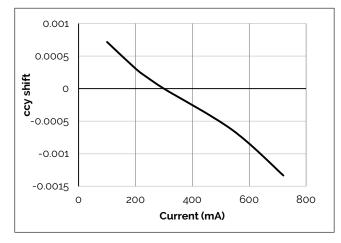
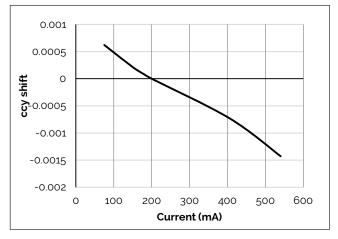


Figure 11: V10B Drive Current vs. ccy Shift



Note for Figures 7-11:

1. Characteristics shown for Warm White.

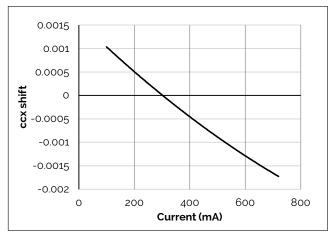
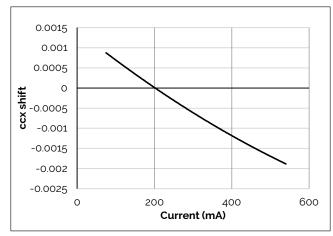


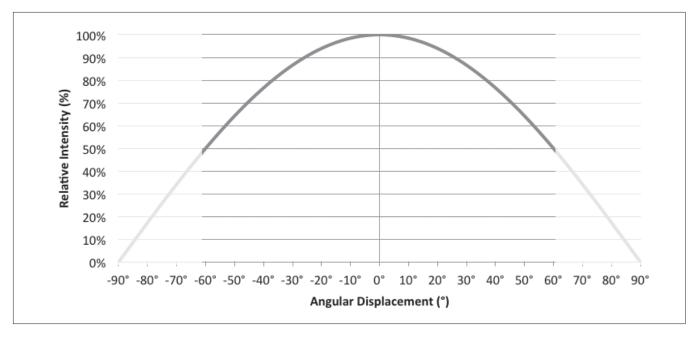
Figure 8: V10A Drive Current vs. ccx Shift





Typical Radiation Pattern

Figure 12: Typical Spatial Radiation Pattern

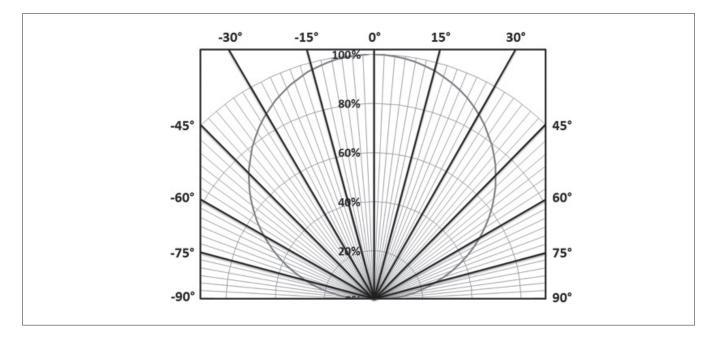


Notes for Figure 12:

1. Typical viewing angle is 120°.

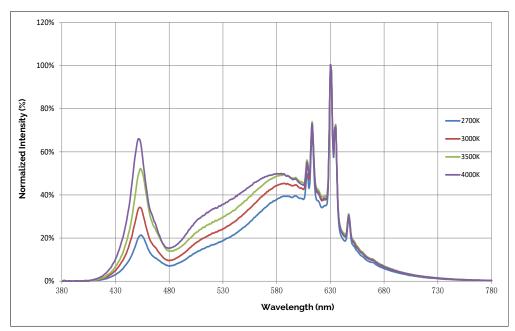
2. The viewing angle is defined as the off axis angle from the centerline where intensity is ½ of the peak value.

Figure 13: Typical Polar Radiation Pattern



Typical Color Spectrum

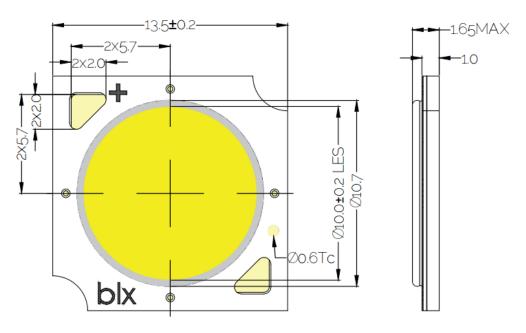
Figure 14: Typical Color Spectrum



Notes for Figure 14:

- 1. Color spectra measured at nominal current for $T_i = T_c = 85$ °C.
- 2. Color spectra shown is 2700K and 80CRI.
- 3. Color spectra shown is 3000K and 80 CRI.
- 4. Color spectra shown is 3500K and 80 CRI.
- 5. Color spectra shown is 4000K and 80 CRI.

Figure 15: Drawing for V10 LED Array



Notes for Figure 15:

- 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 ±0.1mm.
- 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 ± 0.2mm.
- 7. Bridgelux maintains a flatness of 0.10mm across the mounting surface of the array.

Color Binning Information

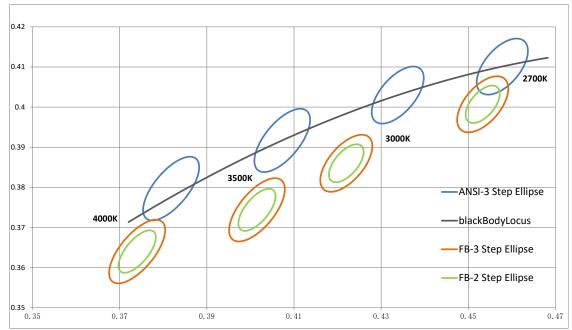


Figure 16: Warm and Neutral White Test Bins in xy Color Space

Note: Pulsed Test Conditions, T_c = 85°C

Table 8: Warm and Neutral White xy Bin Coordinates and Associated Typical CCT (product is hot targeted to Tc = 85°C)

Bin Code	2700K	3000K	3500K	4000K
ANSI Bin (for reference only)	(2580K - 2870K)	(2870K - 3220K)	(3220K - 3710K)	(3710K - 4260K)
93 (3 SDCM)	(2645K - 2788K)	(3025K - 3210K)	(3333K - 3567K)	(3935K - 4254K)
92 (2 SDCM)	(2668K - 2764K)	(3055K - 3178K)	(3370K - 3526K)	(3985K - 4197K)
Center Point (x.y)	(0.4533, 0.4007)	(0.422 0.386)	(0.4015 0.3744)	(0.374, 0.364)

Note for Table 8:

1. Bridgelux maintains a tolerance of +/- 0.007 on x and y color coordinates in the CIE 1931 color Space.

Packaging and Labeling

Figure 17: V10 Packaging Tube



Notes for Figure 17:

1. Each tube holds 35 V10 COB arrays.

- 2. One tube is sealed in an anti-static bag. Four bags are placed in a shipping box. Depending on quantities ordered, a bigger shipping box, containing four boxes may be used to ship products.
- 3. Each bag and box is to be labeled as shown above.
- 4. Dimensions for each tube are 8.3 (W) x 15.4 (H) x 430 (L). Dimensions for the anti-static bag are 75 (W) x 615 (L) x 3.1 (T) mm. Dimensions for the shipping box are 58.7 x 13.3 x 7.9 cm

Packaging and Labeling

Figure 18: Gen. 9 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. For a list of available formats, visit www.bridgelux.com.

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.

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 representative for LM-80 report.

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).

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



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