



Bridgelux® V13 F90 BBBL Array Series

Product Data Sheet DS447-1















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 up to 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 Fgo 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 90 CRI product of the Fg0 Series delivering better or equivalent efficacy as that of our traditional 80 CRI V Series product.

The V₁₃ 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 184 lm/W typical, 3000K 90 CRI
- · Uniform high-quality illumination
- · 2 and 3 SDCM binning options
- · Forward voltage bin codes and backside marking
- · Instant light with unlimited dimming
- 5-Year warranty

- 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









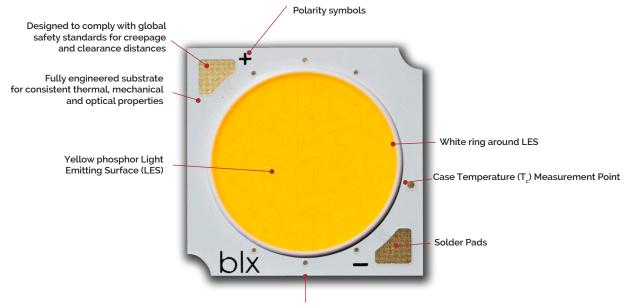
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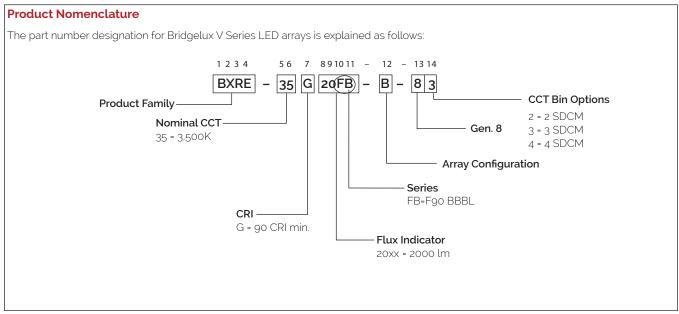
Product Feature Map

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:

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

Part Number	Nominal CCT¹ (K)	CRI ²	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-27G20FB-B-8x	2700	90	350	2166	1950	34.3	12.0	181
BXRE-27G20FB-C-8x	2700	90	500	3083	2775	34.3	17.1	180
BXRE-30G20FB-B-8x	3000	90	350	2210	1989	34.3	12.0	184
BXRE-30G20FB-C-8x	3000	90	500	3155	2840	34.3	17.0	184
BXRE-35G20FB-B-8x	3500	90	350	2196	1976	34.3	12.0	183
BXRE-35G20FB-C-8x	3500	90	500	3135	2822	34.3	17.0	183
BXRE-40G20FB-B-8x	4000	90	350	2220	1998	34.3	12.0	185
BXRE-40G20FB-C-8x	4000	90	500	3160	2844	34.3	17.1	184

Notes for Table 1:

- 1. Nominal CCT as defined by ANSI C78.377-2011.
- 2. CRI values are minimums and tested at T₁ = T₂ = 85°C. Minimum Rg value for 90 CRI products is 50.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 test 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 ±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° C) 45

Part Number	Nominal CCT ¹ (K)	CRI²	Nominal Drive Current³ (mA)	Typical DC Flux ⁴⁵ T _c = 85°C (lm)	Minimum DC Flux ⁶ T _e = 85°C (lm)	Typical V _f (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRE-27G20FB-B-8x	2700	90	350	1993	1794	33.4	11.7	170
BXRE-27G20FB-C-8x	2700	90	500	2837	2553	33.4	16.7	170
BXRE-30G20FB-B-8x	3000	90	350	2034	1830	33.4	11.7	174
BXRE-30G20FB-C-8x	3000	90	500	2903	2612	33.4	16.7	174
BXRE-35G20FB-B-8x	3500	90	350	2020	1818	33.4	11.7	173
BXRE-35G20FB-C-8x	3500	90	500	2884	2596	33.4	16.7	172
BXRE-40G20FB-B-8x	4000	90	350	2043	1838	33.4	11.7	174
BXRE-40G20FB-C-8x	4000	90	500	2907	2616	33.4	16.7	174

Notes for Table 2:

- 1. Nominal CCT as defined by ANSI C78.377-2011.
- 2. CRI values are minimums and tested at $T_1 = T_2 = 85$ °C. Minimum Rg value for go 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.

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.

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

PART NUMBER ¹	CCT (K)	CRI	Current² (mA)	Vf (V)	Useful flux³ (Фuse) at 85C (lm)	Power (W)	Efficacy (lm/W)	Energy efficiency class ⁴	Registra- tion No	URL to Product Information Sheet in EPREL Database
BXRE-27G20FB-B-83	2700	90	900	38.6	4597	35	132	E	1336724	https://eprel.ec.europa.eu/qr/1336724
BXRE-27G20FB-C-83	2700	90	1260	38.0	6422	48	134	E	1336725	https://eprel.ec.europa.eu/qr/1336725
BXRE-30G20FB-B-83	3000	90	900	38.6	4691	34.8	135	Е	1278370	https://eprel.ec.europa.eu/qr/1278370
BXRE-35G20FB-B-83	3500	90	900	38.6	4567	34.8	131	E	1181979	https://eprel.ec.europa.eu/qr/1181979
BXRE-30G20FB-C-83	3000	90	1260	38.0	6553	47.9	137	Е	1278371	https://eprel.ec.europa.eu/qr/1278371
BXRE-35G20FB-C-83	3500	90	1260	38.0	6619	47.9	138	E	1278372	https://eprel.ec.europa.eu/qr/1278372
BXRE-40G20FB-B-83	4000	90	900	38.6	4785	35	138	E	1336736	https://eprel.ec.europa.eu/qr/1336736
BXRE-40G20FB-C-83	4000	90	1260	38.0	6684	48	140	E	1336737	https://eprel.ec.europa.eu/qr/1336737

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 (quse), 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.

Table 4: 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	33.0	5.8	1089	1019	188
		260	33.6	8.7	1619	1503	185
DVDE a=CaaED D O		350	34.3	12.0	2166	1993	181
BXRE-27G20FB-B-8x	90	450	35.0	15.7	2756	2510	175
		700	36.6	25.6	4148	3682	162
		900	37.7	34.0	5177	4499	152
		250	33.0	8.2	1568	1468	190
		375	33.6	12.6	2353	2183	186
DVDE arcasED C 0:		500	34.3	17.1	3083	2837	180
BXRE-27G20FB-C-8x	90	630	34.9	22.0	3889	3545	177
		1000	36.6	36.6	5959	5290	163
		1260	37.7	47.5	7305	6360	154
		175	33.0	5.8	1111	1040	192
		260	33.6	8.7	1652	1534	189
DVDE as CasED D O		350	34.3	12.0	2210	2034	184
BXRE-30G20FB-B-8x	90	450	35.0	15.7	2813	2562	179
		700	36.6	25.6	4234	3757	165
		900	37.7	34.0	5283	4591	156
		250	33.0	8.2	1605	1502	195
		375	33.6	12.6	2408	2235	191
DVDE		500	34.3	17.1	3155	2903	184
BXRE-30G20FB-C-8x	90	630	34.9	22.0	3980	3628	181
		1000	36.6	36.6	6100	5414	167
		1260	37.7	47.5	7477	6509	157
		175	33.0	5.8	1104	1033	191
		260	33.6	8.7	1642	1524	188
DVDE of CocED D O		350	34.3	12.0	2196	2020	183
BXRE-35G20FB-B-8x	90	450	35.0	15.7	2794	2545	178
		700	36.6	25.6	4206	3733	164
		900	37.7	34.0	5249	4562	155
		250	33.0	8.2	1595	1492	193
		375	33.6	12.6	2392	2220	190
DVDE ascasED C 2		500	34.3	17.1	3135	2884	183
BXRE-35G20FB-C-8x	90	630	34.9	22.0	3954	3605	180
		1000	36.6	36.6	6061	5379	166
		1260	37.7	47.5	7428	6467	156

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

Table 4: 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	33.0	5.8	1116	1044	193
		260	33.6	8.7	1660	1540	190
BXRE-40G20FB-B-8x	90	350	34.3	12.0	2220	2043	185
BARE-40G20FB-B-6X		450	35.0	15.7	2825	2573	180
		700	36.6	25.6	4252	3774	166
		900	37.7	34.0	5307	4612	156
		250	33.0	8.2	1607	1504	195
		375	33.6	12.6	2412	2238	191
BXRE-40G20FB-C-8x	00	500	34.3	17.1	3160	2907	184
BARE-4UG2UFB-C-6X	90	630	34.9	22.0	3985	3633	181
		1000	36.6	36.6	6108	5421	167
		1260	37.7	47.5	7486	6519	158

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 \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 5: Electrical Characteristics

		Forward Voltage Pulsed, T _c = 25°C (V) ^{1,2,3,8}			Typical Coefficient	Typical Thermal	Driver Selection Voltages ⁷ (V)	
Part Number	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. Min. Hot T _c = 95°C (V)	V _r Max. Cold T _c = -40°C (V)
DVD55D D 0	350	32.2	34.3	36.3	-11	0.22	31.4	37.1
BXRE-xxx20FB-B-8x	900	35.5	37.7	40.0	-12	0.34	34.6	40.8
BXRE-xxx20FB-C-8x	500	32.2	34.3	36.3	-11	0.19	31.4	37.1
	1260	35.5	37.7	40.0	-12	0.29	34.6	40.8

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 ± 0.1mV for nominal current.
- 5. Thermal resistance values are based from test data of a 3000K 90 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 62031:2018. This product has passed dielectric withstand voltage testing at 1140 V. 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)	CCT⁵ 2700K/3000K/3500K/4000K
BXRE-xxx20FB-B-8x	900	RG1
BXRE-xxx20FB-C-8x	1260	RG1

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

Absolute Maximum Ratings

Table 7: Maximum Ratings

Parameter	Maximum Rating			
LED Junction Temperature (T _j)	150°C			
Storage Temperature ¹	-40°C to +95°C			
Operating Case Temperature² (T _c)	95°C			
Soldering Temperature ³	300°C or lower for a maximum of 6 seconds			
	BXRE-xxx20FB-B-8x	BXRE-xxx20FB-C-8x		
Maximum Drive Current⁴	900 mA at ≤85°C 675 mA at 95°C	1260 mA at ≤85°C 945 mA at 95°C		
Maximum Peak Pulsed Drive Current⁵	1290 mA	1800 mA		
Maximum Reverse Voltage ⁶	-6oV	-6oV		

Notes for Table 7:

- 1. The Fgo 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.

Performance Curves

Figure 1: V13B Drive Current vs. Voltage

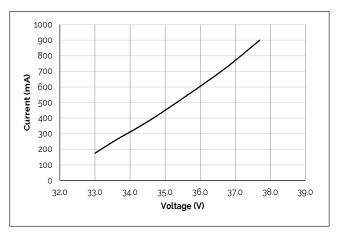


Figure 3: V13C Drive Current vs. Voltage

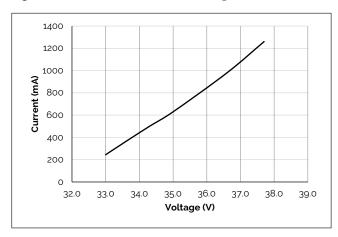
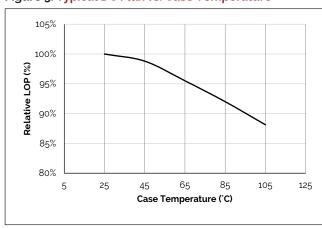


Figure 5: Typical DC Flux vs. Case Temperature



Notes for Figures 1-6:

Figure 2: V13B Typical Relative Flux vs. Current

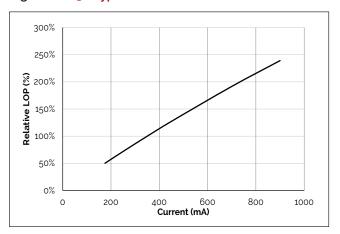


Figure 4: V13C Typical Relative Flux vs. Current

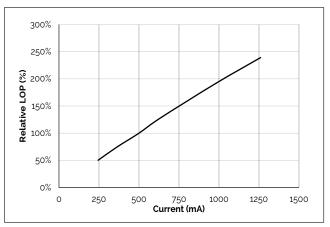
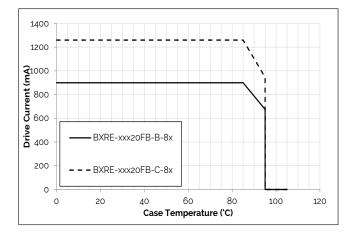


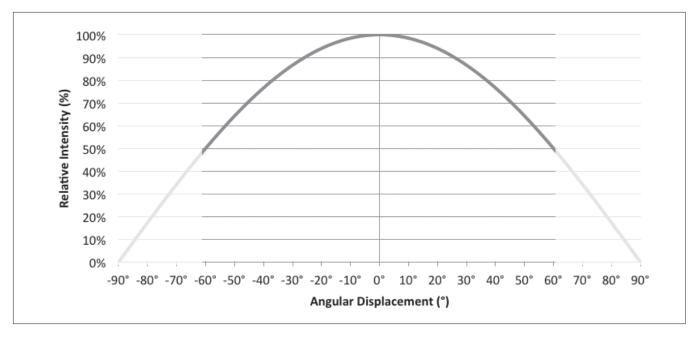
Figure 6: Derating Curve



- 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 test current where T_i (junction temperature) = T_c (case temperature) = 25°C.

Typical Radiation Pattern

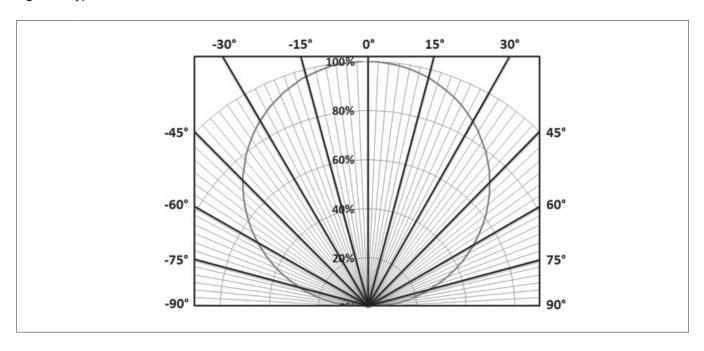
Figure 7: Typical Spatial Radiation Pattern



Notes for Figure 7:

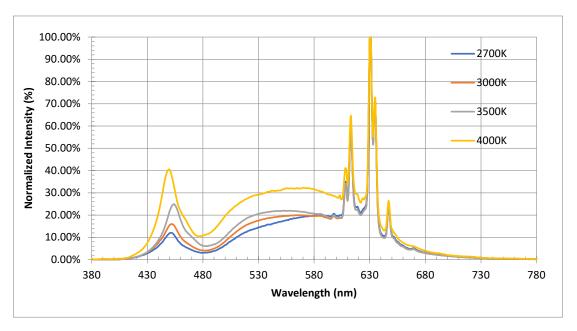
- 1. Typical viewing angle is 120°.
- 2. The viewing angle is defined as the off axis angle from the centerline where intensity is ½ of the peak value.

Figure 8: Typical Polar Radiation Pattern



Typical Color Spectrum

Figure 9: Typical Color Spectrum

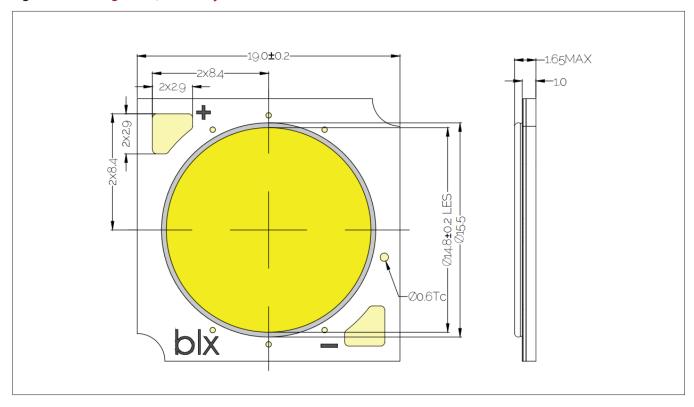


Notes for Figure 9:

- 1. Color spectra measured at nominal current for T_i = T_c = 85°C.
- 2. Color spectra shown is 2700K and 90CRI.
- 3. Color spectra shown is 3000K and 90 CRI.
- 4. Color spectra shown is 3500K and 90 CRI.
- 5. Color spectra shown is 4000K and 90 CRI.

Mechanical Dimensions

Figure 10: Drawing for V13 LED Array



Notes for Figure 10:

- 1. Drawings are not to scale.
- 2. Drawing dimensions are in millimeters.
- 3. Unless otherwise specified, tolerances are ±0.1mm.
- 4. Solder pad labeled "+" denotes positive contact.
- 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 0.2mm.
- 7. Bridgelux maintains a flatness of 0.10mm across the mounting surface of the array.

Color Binning Information

0.42 0.41 0.4 3000K 0.39 3500K 0.38 —ANSI-3 Step Ellipse 4000K ---blackBodyLocus 0.37 —FB-3 Step Ellipse 0.36 FB-2 Step Ellipse 0.41 0.43 0.45 0.47

Figure 11: Warm White Test Bins in xy Color Space

Note: Pulsed Test Conditions, $\rm T_c$ = $85^{\circ}\rm C$

Table 8: Warm 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)
83 (3 SDCM)	(2645K - 2788K)	(3025K - 3210K)	(3333K - 3567K)	(3935K - 4254K)
82 (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 Tables 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 12: V13 Packaging Tubes



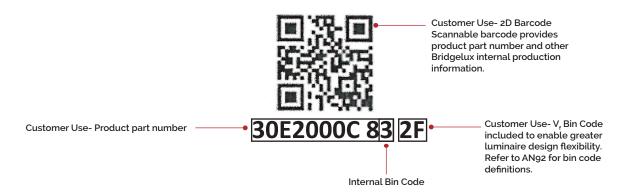
Notes for Figure 12:

- 1. Each tube holds 25 V13 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 21.3 (W) \times 9.5(H) \times 505 (L). Dimensions for the anti-static bag are 75 (W) \times 615 (L) \times 3.1 (T) mm. Dimensions for the shipping box are 58.7 \times 13.3 \times 7.9 cm.

Packaging and Labeling

Figure 13: Gen. 8 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

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: 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).

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.

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