



Bridgelux[®] V13 F90 Array Series

Product Data Sheet DS447



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 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 F90 V Series COB is a high efficacy product that use narrow band red phosphor to significantly improve the spectrum efficacy. The improved spectrum efficacy results in the 90 CRI product of the F90 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 188 lm/W typical, 3000K 90 CRI
- Wide selection of CCT options (2700K-5000K) with minimum 90 CRI options
- Uniform high-quality illumination
- 2 and 3 SDCM binning options (2700K 4000K)
- 3 and 4 SDCM binning options (5000K)
- 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

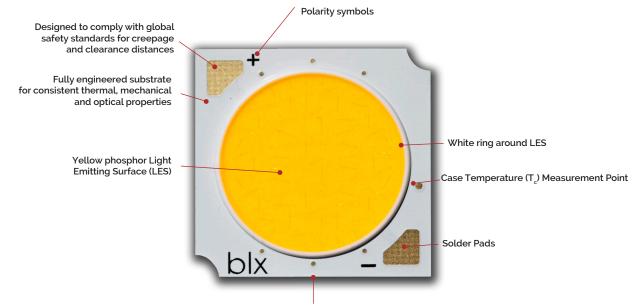


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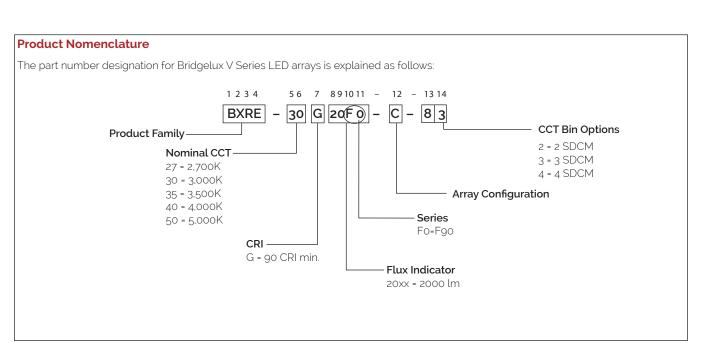
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Product Feature Map

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-27G20F0-B-8x	2700	90	350	2211	1989	34.3	12.0	184
BXRE-27G20F0-C-8x	2700	90	500	3146	2832	34.3	17.1	184
BXRE-30G20F0-B-8x	3000	90	350	2256	2030	34.3	12.0	188
BXRE-30G20F0-C-8x	3000	90	500	3210	2889	34.3	17.1	187
BXRE-35G20F0-B-8x	3500	90	350	2278	2050	34.3	12.0	190
BXRE-35G20F0-C-8x	3500	90	500	3242	2918	34.3	17.1	189
BXRE-40G20F0-B-8x	4000	90	350	2301	2071	34.3	12.0	192
BXRE-40G20F0-C-8x	4000	90	500	3275	2947	34.3	17.1	191
BXRE-50G20F0-B-8x	5000	90	350	2233	2010	34.3	12.0	186
BXRE-50G20F0-C-8x	5000	90	500	3178	2860	34.3	17.1	185

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 T₁ = T_c = 85°C. Minimum R9 value for 90 CRI products is 50.Bridgelux maintains a ± 3 tolerance on CRI and R9 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) ^{4.5}

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-27G20F0-B-8x	2700	90	350	2034	1830	33.4	11.7	174
BXRE-27G20F0-C-8x	2700	90	500	2894	2605	33.4	16.7	173
BXRE-30G20F0-B-8x	3000	90	350	2075	1868	33.4	11.7	177
BXRE-30G20F0-C-8x	3000	90	500	2954	2658	33.4	16.7	177
BXRE-35G20F0-B-8x	3500	90	350	2096	1886	33.4	11.7	179
BXRE-35G20F0-C-8x	3500	90	500	2983	2685	33.4	16.7	178
BXRE-40G20F0-B-8x	4000	90	350	2117	1905	33.4	11.7	181
BXRE-40G20F0-C-8x	4000	90	500	3013	2711	33.4	16.7	180
BXRE-50G20F0-B-8x	5000	90	350	2054	1849	33.4	11.7	175
BXRE-50G20F0-C-8x	5000	90	500	2924	2632	33.4	16.7	175

Notes for Table 2:

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.

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

^{2.} CRI values are minimums and tested at $T_i = T_c = 85$ °C. Minimum R9 value for 90 CRI products is 50,

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 class⁴	Regis- tration No	URL to Product Information Sheet in EPREL Database
BXRE-27G20F0-B-83	2700	90	900	38.6	4597	34.8	132	E	1115626	https://eprel.ec.europa.eu/qr/1115626
BXRE-27G20F0-C-83	2700	90	1260	38.0	6422	47.9	134	E	1115627	https://eprel.ec.europa.eu/qr/1115627
BXRE-30G20F0-B-83	3000	90	900	38.6	4691	34.8	135	E	878976	https://eprel.ec.europa.eu/qr/878976
BXRE-30G20F0-C-83	3000	90	1260	38.0	6553	47.9	137	E	1024000	https://eprel.ec.europa.eu/qr/1024000
BXRE-35G20F0-B-83	3500	90	900	38.6	4738	34.8	136	E	1115633	https://eprel.ec.europa.eu/qr/1115633
BXRE-35G20F0-C-83	3500	90	1260	38.0	6619	47.9	138	E	1115634	https://eprel.ec.europa.eu/qr/1115634
BXRE-40G20F0-B-83	4000	90	900	38.6	4785	34.8	138	E	1024002	https://eprel.ec.europa.eu/qr/1024002
BXRE-40G20F0-C-83	4000	90	1260	38.0	6684	47.9	140	E	1115635	https://eprel.ec.europa.eu/qr/1115635
BXRE-50G20F0-B-84	5000	90	900	38.6	4644	34.8	134	E	1168480	https://eprel.ec.europa.eu/qr/1168480
BXRE-50G20F0-C-84	5000	90	1260	38.0	6488	47.9	136	E	1168481	https://eprel.ec.europa.eu/qr/1168481

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 (duse), 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 Tू = 25°C (lm/W)
		175	33.0	5.8	1111	1040	192
		260	33.6	8.7	1652	1534	189
DVDE 27C20E0 D 9V		350	34.3	12.0	2211	2034	184
BXRE-27G20F0-B-8x	90	450	35.0	15.7	2812	2561	179
		700	36.6	25.6	4233	3757	165
		900	37.7	34.0	5283	4591	156
		250	33.0	8.2	1600	1498	194
		375	33.6	12.6	2401	2228	190
		500	34.3	17.1	3146	2894	184
BXRE-27G20F0-C-8x	90	630	34.9	22.0	3968	3617	180
		1000	36.6	36.6	6081	5398	166
		1260	37.7	47.5	7454	6490	157
		175	33.0	5.8	1134	1061	196
		260	33.6	8.7	1686	1565	193
		350	34.3	12.0	2256	2075	188
BXRE-30G20F0-B-8x	90	450	35.0	15.7	2870	2614	182
		700	36.6	25.6	4320	3834	169
		900	37.7	34.0	5391	4685	159
		250	33.0	8.2	1633	1528	198
		375	33.6	12.6	2450	2274	194
		500	34.3	17.1	3210	2954	187
BXRE-30G20F0-C-8x	90	630	34.9	22.0	4049	3691	184
		1000	36.6	36.6	6206	5508	170
		1260	37.7	47.5	7606	6622	160
		175	33.0	5.8	1145	1072	198
		260	33.6	8.7	1703	1581	195
		350	34.3	12.0	2278	2096	190
BXRE-35G20F0-B-8x	90	450	35.0	15.7	2898	2640	184
		700	36.6	25.6	4363	3872	170
		900	37.7	34.0	5445	4732	160
		250	33.0	8.2	1649	1543	200
		375	33.6	12.6	2474	2296	196
		500	34.3	17.1	3242	2983	189
BXRE-35G20F0-C-8x	90	630	34.9	22.0	4089	3728	186
		1000	36.6	36.6	6268	5563	171
		1260	37.7	47.5	7682	6688	162

Table 4: Product Performance at Commonly Used Drive Currents

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 _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 = 25°C (lm/W)
		175	33.0	5.8	1156	1082	200
		260	33.6	8.7	1720	1596	197
BXRE-40G20F0-B-8x	90	350	34.3	12.0	2301	2117	192
DARE-40020F0-D-0X	90	450	35.0	15.7	2927	2666	186
		700	36.6	25.6	4406	3911	172
		900	37.7	34.0	5499	4779	162
		250	33.0	8.2	1665	1559	202
		375	33.6	12.6	2499	2319	198
BXRE-40G20F0-C-8x	00	500	34.3	17.1	3275	3013	191
DARE-40020F0-C-0X	90	630	34.9	22.0	4130	3765	188
		1000	36.6	36.6	6330	5618	173
		1260	37.7	47.5	7758	6755	163
		175	33.0	5.8	1122	1051	194
		260	33.6	8.7	1669	1550	191
BXRE-50G20F0-B-8x		350	34.3	12.0	2233	2054	186
BARE-50G20F0-B-6X	90	450	35.0	15.7	2841	2588	181
		700	36.6	25.6	4276	3796	167
		900	37.7	34.0	5337	4638	157
		250	33.0	8.2	1616	1513	196
		375	33.6	12.6	2425	2251	192
		500	34.3	17.1	3178	2924	185
BXRE-50G20F0-C-8x	90	630	34.9	22.0	4008	3654	182
		1000	36.6	36.6	6144	5453	168
		1260	37.7	47.5	7530	6556	159

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

		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 _r /∆T _c (mV/°C)	Resistance Junction to Case ^{5,6} R _{j-c} (°C/W)	V Min. Hot T _c = 95°C (V)	, V, Max. Cold T _c = -40°C (V)
	350	32.2	34.3	36.3	-11	0.22	31.4	37.1
BXRE-xxx20F0-B-8x	900	35.5	37.7	40.0	-12	0.34	34.6	40.8
	500	32.2	34.3	36.3	-11	0.19	31.4	37.1
BXRE-xxx20F0-C-8x	1260	35.4	37.7	39.9	-12	0.29	34.6	40.7

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 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_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. 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)		CCT⁴	
		2700K/3000K	4000K²	5000K3
BXRE-xxx20F0-B-8x	900	RG1	RG1	RG1
	1110	RG1	RG1	RG1
BXRE-xxx20F0-C-8x	1260	RG1	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= 1980 lx.

3. For products classified as RG2 at 5000K Ethr= 1530 lx.

4. 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	o +95°C		
Operating Case Temperature ² (T _c)	95	°C		
Soldering Temperature ³	300°C or lower for a maximum of 6 seconds			
	BXRE-xxx20F0-B-8x	BXRE-xxx20F0-C-8x		
Maximum Drive Current ⁴	900 mA at ≤85°C 675 mA at 95°C	1260 mA at ≤85°C 945 mA at 95°C		
Maximum Peak Pulsed Drive Current ⁵	1290 mA	1800 mA		
Maximum Reverse Voltage ⁶	-60V	-60V		

Notes for Table 7:

- 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.

The Fgo product is robust enough to pass our internal humidity test but it is still more sensitive to moisture compared to our 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 is directly exposed to moisture.

Performance Curves

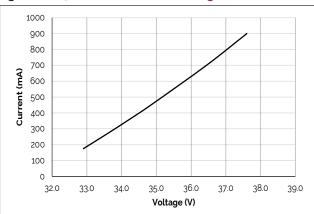
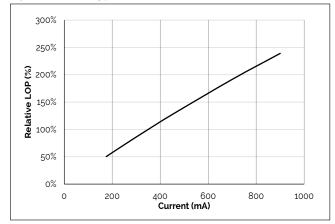


Figure 1: V13B Drive Current vs. Voltage

Figure 3: V13B Typical Relative Flux vs. Current





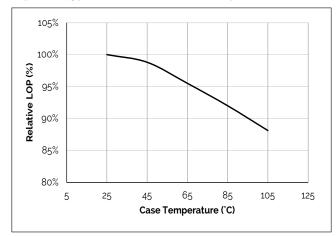
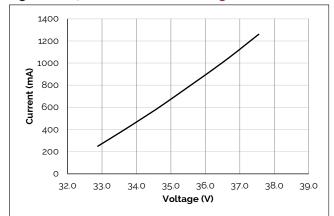
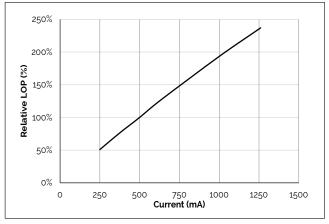


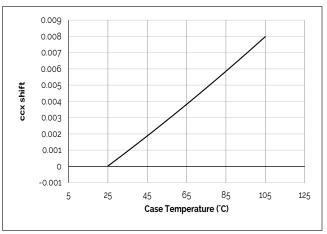
Figure 2: V13C Drive Current vs. Voltage











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 test current where T, (junction temperature) = T, (case temperature) = 25°C.

Note for Figures 5-6:

1. Characteristics shown for Warm White.

Performance Curves

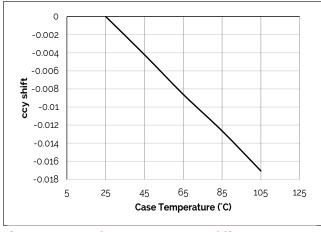


Figure 7: Typical DC ccy Shift vs. Case Temperature



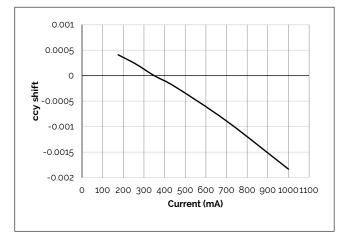
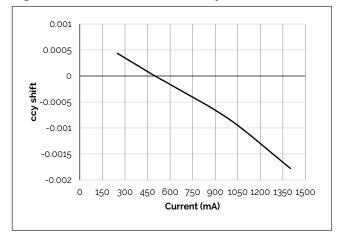


Figure 11: V13C Drive Current vs. ccy Shift



Note for Figures 7-11:

1. Characteristics shown for Warm White.

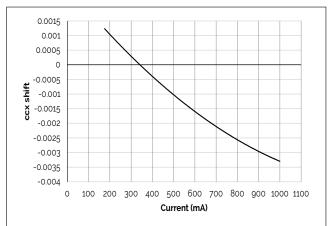
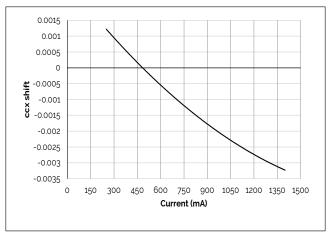
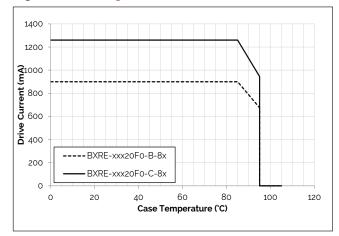


Figure 8: V13B Drive Current vs. ccx Shift



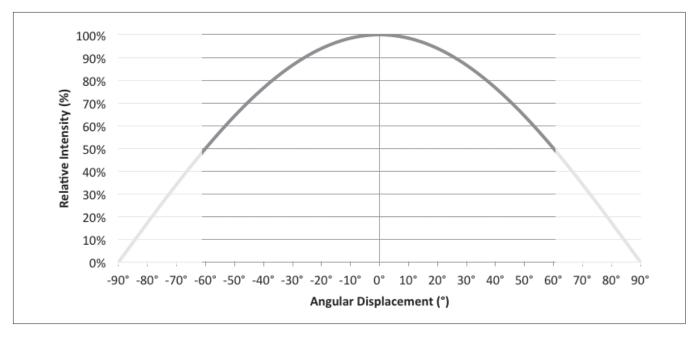






Typical Radiation Pattern

Figure 13: Typical Spatial Radiation Pattern

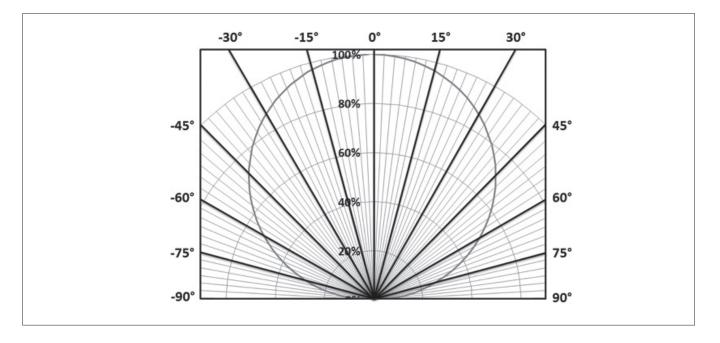


Notes for Figure 13:

1. Typical viewing angle is 120°.

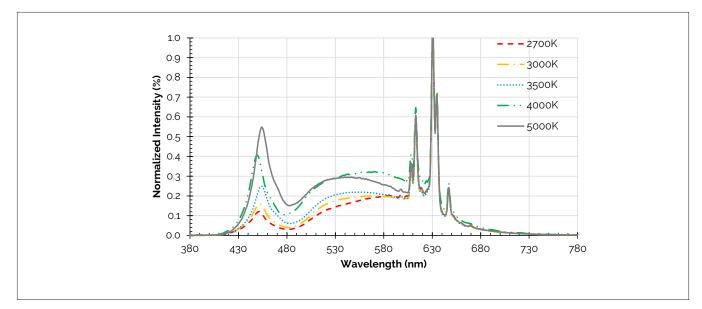
2. The viewing angle is defined as the off axis angle from the centerline where intensity is ½ of the peak value.

Figure 14: Typical Polar Radiation Pattern



Typical Color Spectrum

Figure 15: Typical Color Spectrum

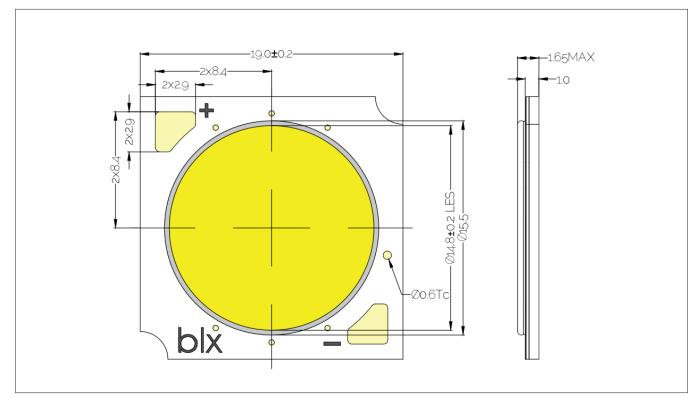


Notes for Figure 15:

- 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.
- 6. Color spectra shown is 5000K and 90 CRI.

Mechanical Dimensions

Figure 16: V13 LED Array



Notes for Figure 16:

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

Color Binning Information

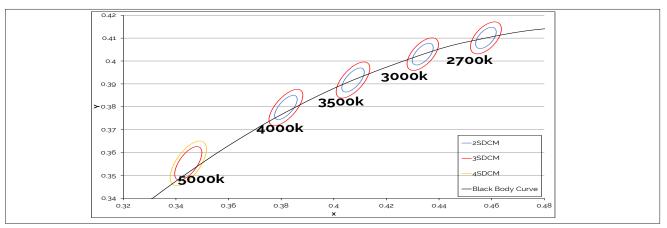


Figure 17: Warm and Neutral White Test Bins in xy Color Space

Note: Pulsed Test Conditions, T_ = 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)
83 (3 SDCM)	(2651K - 2794K)	(2968K - 3136K)	(3369K - 3586K)	(3851K - 4130K)
82 (2 SDCM)	(2674K - 2769K)	(2995K - 3107K)	(3404K - 3548K)	(3895K - 4081K)
Center Point (x,y)	(0.4578, 0.4101)	(0.4338, 0.403)	(0.4073, 0.3917)	(0.3818, 0.3797)

Table 9: Cool White xy Bin Coordinates and Associated Typical CCT (product is hot targeted to T_c = 85°C)

Bin Code	5000K
ANSI Bin (for reference only)	(4745K - 5311K)
84 (4 SDCM)	(4801K - 5282K)
83 (3 SDCM)	(4835K - 5215K)
Center Point (x,y)	(0.3447, 0.3553)

Note for Tables 8-9:

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

Packaging and Labeling

Figure 18: V13 Packaging Tubes



Notes for Figure 18:

- 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) x 9.5(H) x 505 (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 19: 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.



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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.

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