



Bridgelux[®] V10 F90 TS Array Series

Product Data Sheet DS1319



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 uses 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 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 165 lm/W typical, 3000K 90 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

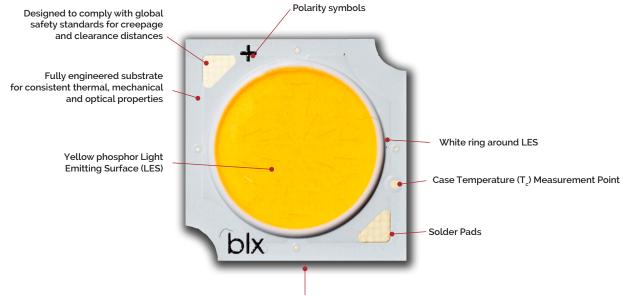


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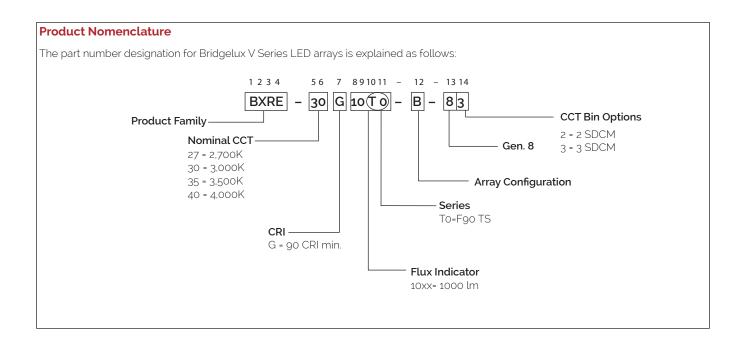
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Product Feature Map

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.







Product Selection Guide

The following product configurations are available:

Table 1: Selection Guide	, Pulsed Measurement Dat	$f_{i} = T_{c} = 25^{\circ}C$
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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 _r (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRE-27G10T0-A-8x	2700	90	300	1640	1476	34.5	10.3	159
BXRE-27G10T0-B-8x	2700	90	200	1090	981	34.1	6.8	160
BXRE-30G10T0-A-8x	3000	90	300	1700	1530	34.5	10.3	164
BXRE-30G10T0-B-8x	3000	90	200	1130	1017	34.1	6.8	165
BXRE-35G10T0-A-8x	3500	90	300	1720	1548	34.5	10.3	166
BXRE-35G10T0-B-8x	3500	90	200	1140	1026	34.1	6.8	167
BXRE-40G10T0-A-8x	4000	90	300	1755	1580	34.5	10.3	170
BXRE-40G10T0-B-8x	4000	90	200	1165	1049	34.1	6.8	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 = 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 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 ($T_c = 85^{\circ}C$) ^{4.5}

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 _c = 85°C (lm)	Typical V, (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRE-27G10T0-A-8x	2700	90	300	1509	1358	33.7	10.1	149
BXRE-27G10T0-B-8x	2700	90	200	1003	903	33.4	6.7	150
BXRE-30G10T0-A-8x	3000	90	300	1564	1408	33.7	10.1	155
BXRE-30G10T0-B-8x	3000	90	200	1040	936	33.4	6.7	156
BXRE-35G10T0-A-8x	3500	90	300	1583	1425	33.7	10.1	156
BXRE-35G10T0-B-8x	3500	90	200	1049	944	33.4	6.7	157
BXRE-40G10T0-A-8x	4000	90	300	1615	1453	33.7	10.1	160
BXRE-40G10T0-B-8x	4000	90	200	1072	965	33.4	6.7	160

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_c = 85°C. Minimum R9 value 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.

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 (Φuse) 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-27G10T0-A-83	2700	90	720	38.0	3397	27	124	E	1848541	https://eprel.ec.europa.eu/qr/1848541
BXRE-27G10T0-B-83	2700	90	540	38.0	2519	21	123	E	1848542	https://eprel.ec.europa.eu/qr/1848542
BXRE-30G10T0-A-83	3000	90	720	38.0	3521	27	129	E	1848553	https://eprel.ec.europa.eu/qr/1848553
BXRE-30G10T0-B-83	3000	90	540	38.0	2611	21	127	E	1848554	https://eprel.ec.europa.eu/qr/1848554
BXRE-35G10T0-A-83	3500	90	720	38.0	3564	27	130	E	1848565	https://eprel.ec.europa.eu/qr/1848565
BXRE-35G10T0-B-83	3500	90	540	38.0	2634	21	128	E	1848566	https://eprel.ec.europa.eu/qr/1848566
BXRE-40G10T0-A-83	4000	90	720	38.0	3635	27	133	E	1848577	https://eprel.ec.europa.eu/qr/1848577
BXRE-40G10T0-B-83	4000	90	540	38.0	2692	21	131	E	1848578	https://eprel.ec.europa.eu/qr/1848578

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 LED Arrays 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, 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)
		150	33.1	5.0	840	773	169
	-	225	33.8	7.6	1248	1148	164
		300	34.5	10.3	1640	1509	159
BXRE-27G10T0-A-8x	90	360	35.0	12.6	1957	1801	155
		600	36.9	22.1	3139	2888	142
		720	37.7	27.2	3693	3397	136
		100	32.9	3.3	555	510	168
		150	33.6	5.0	825	759	164
		200	34.1	6.8	1090	1003	160
BXRE-27G10T0-B-8x	90	270	34.9	9.4	1451	1335	154
		400	36.3	14.5	2091	1924	144
		540	37.7	20.3	2738	2519	135
		150	33.1	5.0	871	801	175
		225	33.8	7.6	1294	1190	170
		300	34.5	10.3	1700	1564	164
BXRE-30G10T0-A-8x	90	360	35.0	12.6	2029	1867	161
		600	36.9	22.1	3254	2994	147
		720	37.7	27.2	3828	3521	141
		100	32.9	3.3	575	529	175
		150	33.6	5.0	856	787	170
		200	34.1	6.8	1130	1040	165
BXRE-30G10T0-B-8x	90	270	34.9	9.4	1504	1384	159
		400	36.3	14.5	2168	1995	149
		540	37.7	20.3	2838	2611	139
		150	33.1	5.0	881	811	177
		225	33.8	7.6	1309	1204	172
		300	34.5	10.3	1720	1583	166
BXRE-35G10T0-A-8x	90	360	35.0	12.6	2053	1889	163
		600	36.9	22.1	3293	3030	149
		720	37.7	27.2	3874	3564	143
		100	32.9	3.3	580	534	176
		150	33.6	5.0	863	794	171
		200	34.1	6.8	1140	1049	167
BXRE-35G10T0-B-8x	90	270	34.9	9.4	1518	1396	161
		400	36.3	14.5	2187	2012	151
		540	37.7	20.3	2863	2634	141

 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 \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

Typical Typical Typical Typical Typical V_f Drive Efficacy DC Flux³ Power Flux² T_c = 25°C (V) Part Number CRI Current¹ T_c = 85°C T_c = 25°C T_c = 25°C T_c = 25°C (mA) (W) (lm) (lm) (ľm/W) 5.0 899 827 181 150 33.1 176 33.8 7.6 1229 225 1335 300 34.5 10.3 1755 1615 170 BXRE-40G10T0-A-8x 90 360 12.6 166 35.0 2094 1927 600 36.9 22.1 3359 3091 152 720 37.7 27.2 3951 3635 145 180 100 32.9 3.3 593 545 882 150 33.6 5.0 811 175 200 34.1 6.8 1165 1072 171 BXRE-40G10T0-B-8x 90 270 34.9 9.4 1551 1427 164 400 36.3 14.5 2235 2057 154 540 20.3 2926 2692 37.7 144

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 _r Min. Hot T _c = 105°C (V)	, V _r Max. Cold T _c = -40°C (V)
	300	32.4	34.5	36.5	-9.64	0.41	31.7	37.2
BXRE-xxx10Tx-A-8x	720	35.5	37.7	40.0	-10.55	0.60	34.7	40.7
BXRE-xxx10Tx-B-8x	200	32.1	34.1	36.2	-9.55	0.62	31.4	36.8
	540	35.4	37.7	39.9	-10.54	0.95	34.7	40.6

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_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)	cc	C T 3
		2700K/3000K	3500-4000K²
BXRE-xxx10Tx-A-8x	415	RG1	RG1
	720	RG1	RG2
BXRE-xxx10Tx-B-8x	405	RG1	RG1
	540	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. 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°C7					
Soldering Temperature ³	350°C or lower for a maximum of 6 seconds					
	BXRE-xxG10Tx-A-8x	BXRE-xxG10Tx-B-8x				
Maximum Drive Current ⁴	720 mA at ≤85°C 480 mA at 105°C	540 mA at ≤85°C 360mA at 105°C				
Maximum Peak Pulsed Drive Current ⁵	1030mA	770mA				
Maximum Reverse Voltage ⁶	-60V	-60V				

Notes for Table 7:

1. The Fg0 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 deg C.

Performance Curves

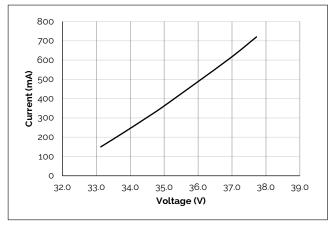
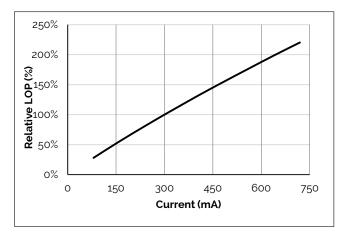
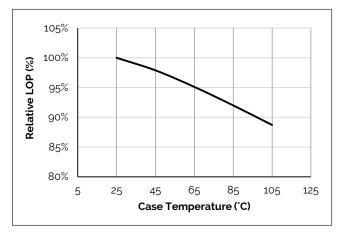


Figure 1: V10A Drive Current vs. Voltage

Figure 3: V10A Typical Relative Flux vs. Current







Notes for Figures 1-6:

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.

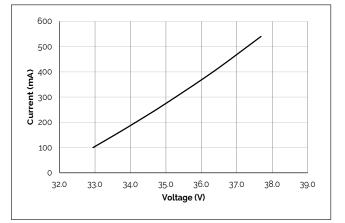
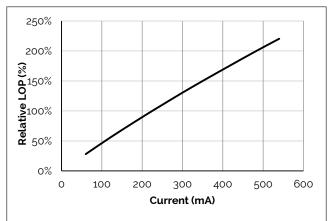
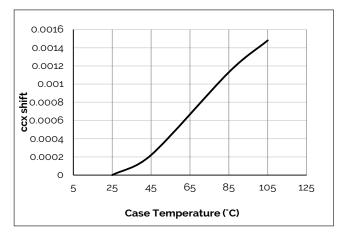


Figure 2: V10B Drive Current vs. Voltage

Figure 4: V10B Typical Relative Flux vs. Current







Performance Curves

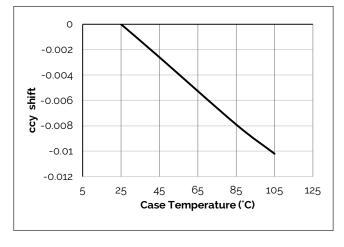


Figure 7: Typical DC ccy Shift vs. Case Temperature



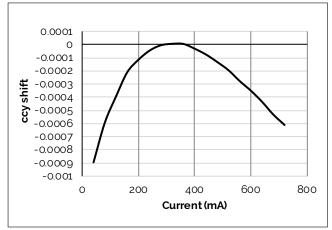
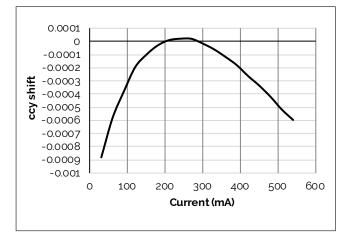


Figure 11: V10B Drive Current vs. ccy Shift



Note for Figures 7-12: 1. Characteristics shown for Warm White.

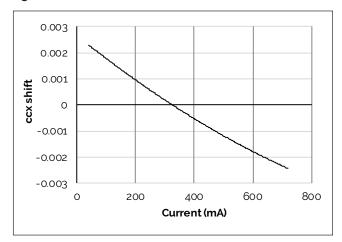
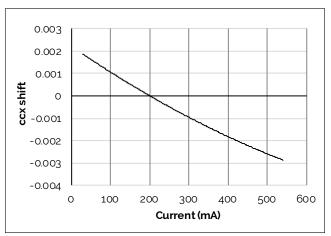
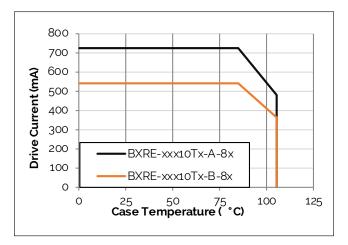


Figure 8: V10A Drive Current vs. ccx Shift



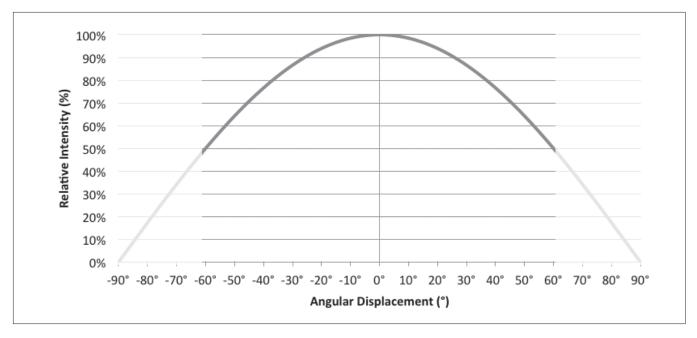






Typical Radiation Pattern

Figure 13: Typical Spatial Radiation Pattern

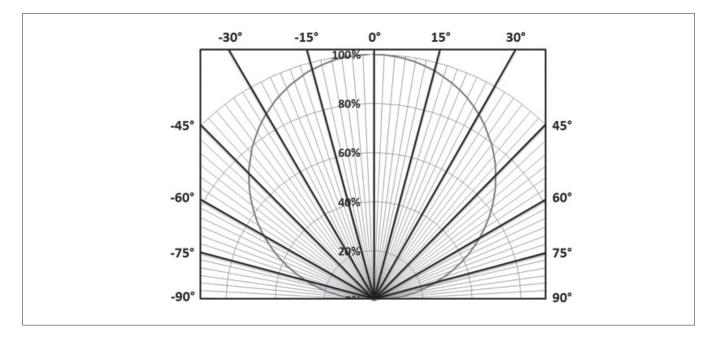


Notes for Figure 13:

1. Typical viewing angle is 120°.

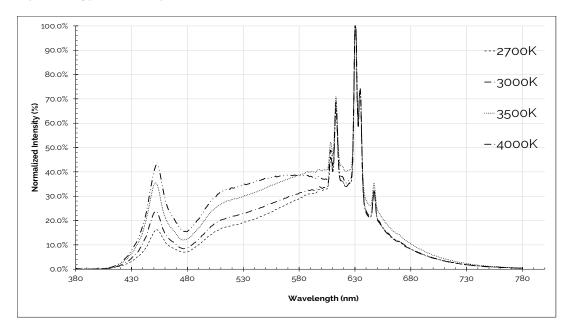
2. The viewing angle is defined as the off axis angle from the centerline where intensity is ½ of the peak value.

Figure 14: Typical Polar Radiation Pattern



Typical Color Spectrum

Figure 15: Typical Color Spectrum

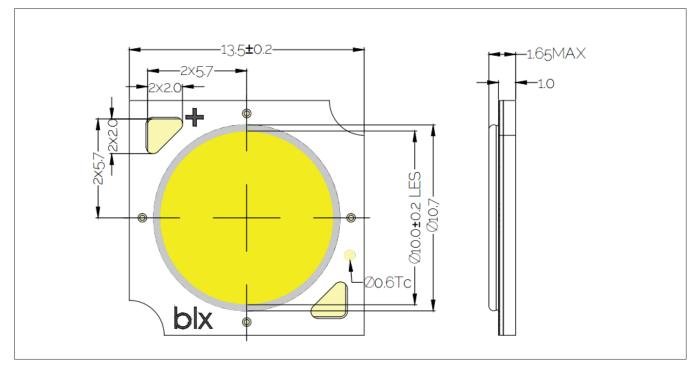


Notes for Figure 15:

- 1. Color spectra measured at nominal current for $T_i = T_c = 85^{\circ}C$.
- 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 16 Drawing for V10 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

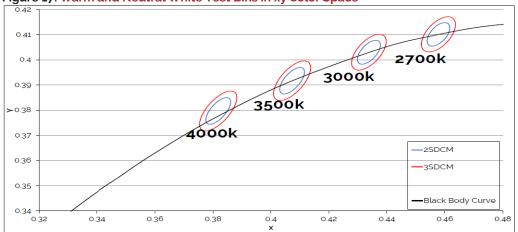


Figure 17: Warm and Neutral White Test Bins in xy Color Space

Note: Pulsed Test Conditions, T_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)
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)

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 18: V10 Packaging Tube



Notes for Figure 18:

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 19: 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.



Customer Use- 2D Barcode Scannable barcode provides product part number and other Bridgelux internal production information.

> Customer Use-V_F Bin Code included to enable greater luminaire design flexibility. Refer to AN92 for bin code definitions.

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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