



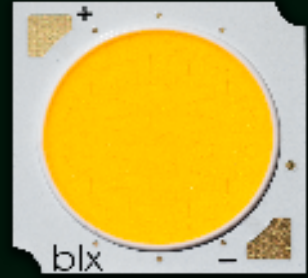
Bridgelux® GENg V13 Array Series

Product Data Sheet DS1304



Introduction

V Series



The V Series™ LED Array products deliver high quality light in a compact and cost-effective solid-state lighting package. These chip on board (CoB) arrays can be efficiently driven 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 9 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 9 Series delivering better or equivalent efficacy as that of our previous generation 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 199 lm/W typical, 3000K 80 CRI
- Wide selection of CCT options (2700K-5000K) with minimum 80 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

Benefits

- 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



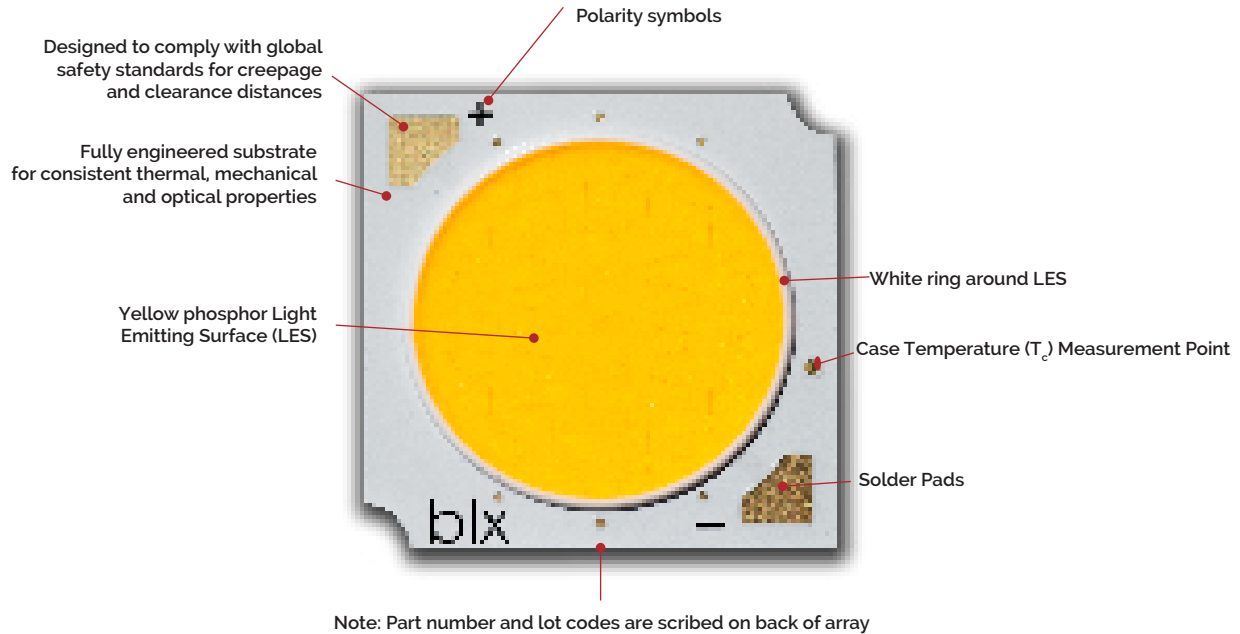
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Product Feature Map

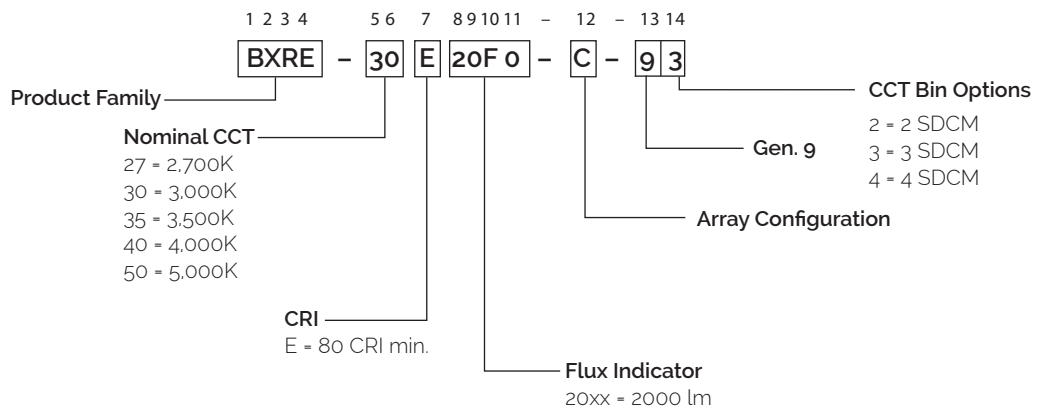
Bridgelux arrays are fully engineered devices that provide consistent thermal and optical performance on an engineered mechanical platform. The V Series arrays are the most compact chip-on-board devices across all of Bridgelux's LED Array products.

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.



Product Nomenclature

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



Product Selection Guide

The following product configurations are available:

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

Part Number	Nominal CCT ¹ (K)	CRI ²	Nominal Drive Current ³ (mA)	Typical Pulsed Flux ^{4,5,6} $T_c = 25^\circ\text{C}$ (lm)	Minimum Pulsed Flux ^{6,7} $T_c = 25^\circ\text{C}$ (lm)	Typical V_f (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRE-27E20F0-B-gx	2700	80	350	2303	2073	33.8	11.8	195
BXRE-27E20F0-C-gx	2700	80	500	3283	2955	33.8	16.9	194
BXRE-30E20F0-B-gx	3000	80	350	2350	2115	33.8	11.8	199
BXRE-30E20F0-C-gx	3000	80	500	3350	3015	33.8	16.9	198
BXRE-35E20F0-B-gx	3500	80	350	2362	2126	33.8	11.8	200
BXRE-35E20F0-C-gx	3500	80	500	3367	3030	33.8	16.9	199
BXRE-40E20F0-B-gx	4000	80	350	2374	2136	33.8	11.8	201
BXRE-40E20F0-C-gx	4000	80	500	3384	3045	33.8	16.9	200
BXRE-50E20F0-B-gx	5000	80	350	2327	2094	33.8	11.8	197
BXRE-50E20F0-C-gx	5000	80	500	3317	2985	33.8	16.9	196

Notes for Table 1:

- Nominal CCT as defined by ANSI C78.377-2011.
- CRI values are minimums and tested at $T_j = T_c = 85^\circ\text{C}$. Minimum Rg value for 80 CRI products is 0. Bridgelux maintains a ± 3 tolerance on CRI and Rg values.
- Drive current is referred to as nominal drive current.
- Products tested under pulsed condition (10ms pulse width) at nominal drive current where T_j (junction temperature) = T_c (case temperature) = 25°C .
- Typical performance values are provided as a reference only and are not a guarantee of performance.
- Bridgelux maintains a $\pm 7\%$ tolerance on flux measurements.
- Minimum flux values at the nominal drive current are guaranteed by 100% test.

Product Selection Guide

Table 2: Selection Guide, Stabilized DC Performance ($T_c = 85^\circ\text{C}$)^{4,5}

Part Number	Nominal CCT ¹ (K)	CRI ²	Nominal Drive Current ³ (mA)	Typical DC Flux ^{4,5} $T_c = 85^\circ\text{C}$ (lm)	Minimum DC Flux ⁶ $T_c = 85^\circ\text{C}$ (lm)	Typical V_f (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRE-27E20F0-B-gx	2700	80	350	2119	1907	33.2	11.6	182
BXRE-27E20F0-C-gx	2700	80	500	3020	2718	33.2	16.6	182
BXRE-30E20F0-B-gx	3000	80	350	2162	1946	33.2	11.6	186
BXRE-30E20F0-C-gx	3000	80	500	3082	2774	33.2	16.6	186
BXRE-35E20F0-B-gx	3500	80	350	2173	1956	33.2	11.6	187
BXRE-35E20F0-C-gx	3500	80	500	3097	2788	33.2	16.6	187
BXRE-40E20F0-B-gx	4000	80	350	2184	1965	33.2	11.6	188
BXRE-40E20F0-C-gx	4000	80	500	3113	2802	33.2	16.6	187
BXRE-50E20F0-B-gx	5000	80	350	2140	1926	33.2	11.6	184
BXRE-50E20F0-C-gx	5000	80	500	3051	2746	33.2	16.6	184

Notes for Table 2:

1. Nominal CCT as defined by ANSI C78.377-2011.
2. CRI values are minimums and tested at $T_j = T_c = 85^\circ\text{C}$. 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.

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

PART NUMBER ¹	CCT (K)	CRI	Current ² (mA)	Vf (V)	Useful flux ³ (Φ_{use}) at 85C (lm)	Power (W)	Efficacy (lm/W)	Energy efficiency class ⁴	Registration No	URL to Product Information Sheet in EPREL Database
BXRE-27E20F0-B-93	2700	80	900	37.6	4790	34	142	E	1702063	https://eprelec.europa.eu/qr/1702063
BXRE-27E20F0-C-93	2700	80	1260	37.5	6702	47	142	E	1702064	https://eprelec.europa.eu/qr/1702064
BXRE-30E20F0-B-93	3000	80	900	37.6	4888	34	144	E	1702078	https://eprelec.europa.eu/qr/1702078
BXRE-30E20F0-C-93	3000	80	1260	37.5	6838	47	145	E	1702079	https://eprelec.europa.eu/qr/1702079
BXRE-35E20F0-B-93	3500	80	900	37.6	4913	34	145	E	1702093	https://eprelec.europa.eu/qr/1702093
BXRE-35E20F0-C-93	3500	80	1260	37.5	6873	47	145	E	1702094	https://eprelec.europa.eu/qr/1702094
BXRE-40E20F0-B-93	4000	80	900	37.6	4937	34	146	D	1702108	https://eprelec.europa.eu/qr/1702108
BXRE-40E20F0-C-93	4000	80	1260	37.5	6908	47	146	D	1702109	https://eprelec.europa.eu/qr/1702109
BXRE-50E20F0-B-94	5000	80	900	37.6	4840	34	143	E	1702131	https://eprelec.europa.eu/qr/1702131
BXRE-50E20F0-C-94	5000	80	1260	37.5	6771	47	143	E	1702133	https://eprelec.europa.eu/qr/1702133

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 (Φ_{use}), 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 Current ¹ (mA)	Typical V_f $T_c = 25^\circ\text{C}$ (V)	Typical Power $T_c = 25^\circ\text{C}$ (W)	Typical Flux ² $T_c = 25^\circ\text{C}$ (lm)	Typical DC Flux ³ $T_c = 85^\circ\text{C}$ (lm)	Typical Efficacy $T_c = 25^\circ\text{C}$ (lm/W)
BXRE-27E20F0-B-gx	80	125	31.8	4.0	844	786	212
		250	33.0	8.2	1669	1546	202
		300	33.4	10.0	1989	1836	198
		350	33.8	11.8	2303	2119	195
		630	35.7	22.5	3979	3593	177
		900	37.6	33.8	5512	4896	163
BXRE-27E20F0-C-gx	80	175	31.8	5.6	1180	1099	212
		350	32.9	11.5	2335	2163	203
		400	33.2	13.3	2655	2454	200
		500	33.8	16.9	3283	3020	194
		875	35.7	31.2	5524	4992	177
		1260	37.5	47.3	7708	6851	163
BXRE-30E20F0-B-gx	80	125	31.8	4.0	861	802	216
		250	33.0	8.2	1704	1577	207
		300	33.4	10.0	2030	1873	203
		350	33.8	11.8	2350	2162	199
		630	35.7	22.5	4060	3666	180
		900	37.6	33.8	5624	4996	166
BXRE-30E20F0-C-gx	80	175	31.8	5.6	1204	1122	217
		350	32.9	11.5	2383	2207	207
		400	33.2	13.3	2709	2504	204
		500	33.8	16.9	3350	3082	198
		875	35.7	31.2	5637	5094	181
		1260	37.5	47.3	7865	6991	166
BXRE-35E20F0-B-gx	80	125	31.8	4.0	866	806	218
		250	33.0	8.2	1712	1585	208
		300	33.4	10.0	2040	1883	204
		350	33.8	11.8	2362	2173	200
		630	35.7	22.5	4081	3685	181
		900	37.6	33.8	5652	5021	167
BXRE-35E20F0-C-gx	80	175	31.8	5.6	1210	1127	218
		350	32.9	11.5	2394	2218	208
		400	33.2	13.3	2723	2516	205
		500	33.8	16.9	3367	3097	199
		875	35.7	31.2	5665	5120	182
		1260	37.5	47.3	7905	7026	167

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

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

Part Number	CRI	Drive Current ¹ (mA)	Typical V_f $T_c = 25^\circ\text{C}$ (V)	Typical Power $T_c = 25^\circ\text{C}$ (W)	Typical Flux ² $T_c = 25^\circ\text{C}$ (lm)	Typical DC Flux ³ $T_c = 85^\circ\text{C}$ (lm)	Typical Efficacy $T_c = 25^\circ\text{C}$ (lm/W)
BXRE-40E20F0-B-gx	80	125	31.8	4.0	870	810	219
		250	33.0	8.2	1721	1593	209
		300	33.4	10.0	2050	1892	205
		350	33.8	11.8	2374	2184	201
		630	35.7	22.5	4101	3703	182
		900	37.6	33.8	5680	5046	168
BXRE-40E20F0-C-gx	80	175	31.8	5.6	1216	1133	219
		350	32.9	11.5	2406	2229	209
		400	33.2	13.3	2736	2529	206
		500	33.8	16.9	3384	3113	200
		875	35.7	31.2	5694	5145	183
		1260	37.5	47.3	7944	7061	168
BXRE-50E20F0-B-gx	80	125	31.8	4.0	853	794	214
		250	33.0	8.2	1687	1562	204
		300	33.4	10.0	2009	1855	200
		350	33.8	11.8	2327	2140	197
		630	35.7	22.5	4020	3630	179
		900	37.6	33.8	5568	4946	165
BXRE-50E20F0-C-gx	80	175	31.8	5.6	1192	1110	214
		350	32.9	11.5	2359	2185	205
		400	33.2	13.3	2682	2479	202
		500	33.8	16.9	3317	3051	196
		875	35.7	31.2	5581	5043	179
		1260	37.5	47.3	7787	6921	165

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

Part Number	Drive Current (mA)	Forward Voltage Pulsed, $T_c = 25^\circ\text{C}$ (V) ^{1, 2, 3, 8}			Typical Coefficient of Forward Voltage ⁴ $\Delta V_f / \Delta T_c$ (mV/°C)	Typical Thermal Resistance Junction to Case ^{5,6} R_{j-c} (°C/W)	Driver Selection Voltages ⁷ (V)	
		Minimum	Typical	Maximum			V_f Min. Hot $T_c = 105^\circ\text{C}$ (V)	V_f Max. Cold $T_c = -40^\circ\text{C}$ (V)
BXRE-xxx20Fx-B-gx	350	31.8	33.8	35.8	-13.25	0.22	31.0	37.1
	900	35.4	37.6	39.9	-14.66	0.34	34.5	41.3
BXRE-xxx20Fx-C-gx	500	31.8	33.8	35.8	-13.27	0.19	31.0	37.1
	1260	35.3	37.5	39.8	-14.68	0.29	34.4	41.2

Notes for Table 5:

- Parts are tested in pulsed conditions, $T_c = 25^\circ\text{C}$. Pulse width is 10ms.
- Voltage minimum and maximum are provided for reference only and are not a guarantee of performance.
- Bridgelux maintains a tester tolerance of $\pm 0.10\text{V}$ on forward voltage measurements.
- Typical coefficient of forward voltage tolerance is $\pm 0.1\text{mV}$ for nominal current.
- Thermal resistance values are based from test data of a 3000K 80 CRI product.
- 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.
- 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.
- This product has been designed and manufactured per IEC 62031:2018.

Eye Safety

Table 6: Eye Safety Risk Group (RG) Classifications

Part Number	Drive Current (mA)	CCT ⁴		
		2700K/3000K	3500K/4000K ²	5000K ³
BXRE-xxx20Fx-B-gx	900	RG1	RG1	RG1
BXRE-xxx20Fx-C-gx	900	RG1	RG1	RG1
	1160	RG1	RG1	RG2
	1260	RG1	RG2	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. For products classified as RG2 at 5000K Ethr= 1400 lx.
4. 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 +105°C	
Operating Case Temperature ² (T_c)	105°C ⁷	
Soldering Temperature ³	350°C or lower for a maximum of 6 seconds	
	BXRE-xxx20Fx-B-gx	BXRE-xxx20Fx-C-gx
Maximum Drive Current ⁴	900 mA	1260 mA
Maximum Peak Pulsed Drive Current ⁵	1290 mA	1800 mA
Maximum Reverse Voltage ⁶	-60V	-60V

Notes for Table 7:

1. The Gen 9 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: V13B Drive Current vs. Voltage

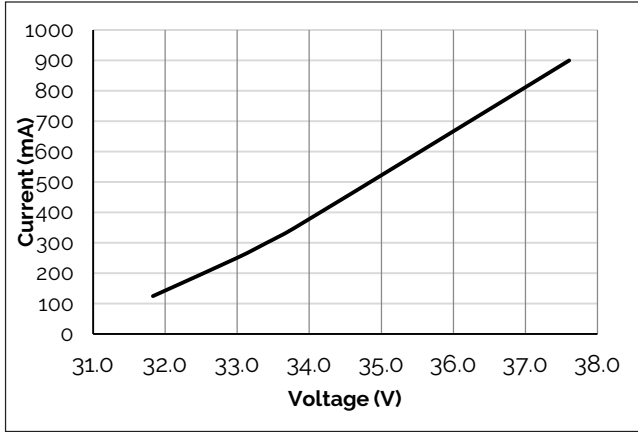


Figure 2: V13C Drive Current vs. Voltage

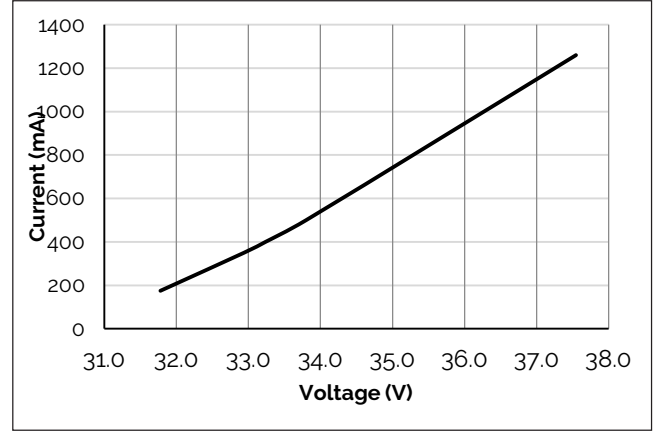


Figure 3: V13B Typical Relative Flux vs. Current

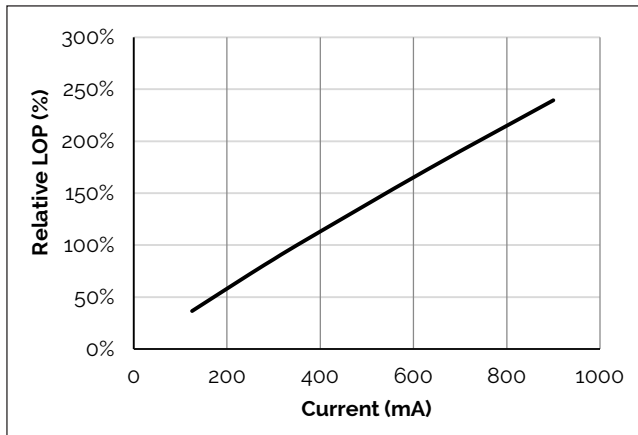


Figure 4: V13C Typical Relative Flux vs. Current

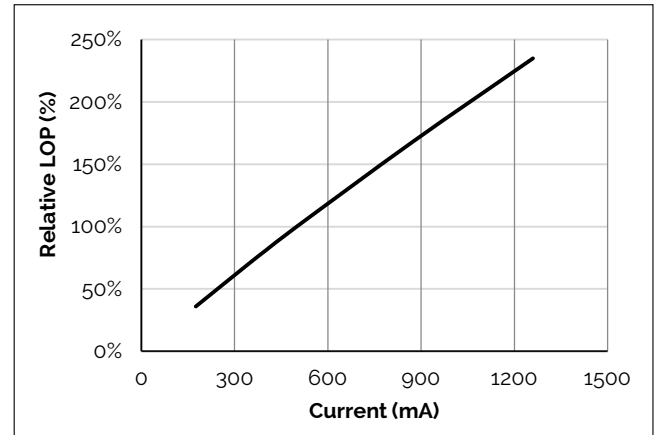


Figure 5: Typical DC Flux vs. Case Temperature

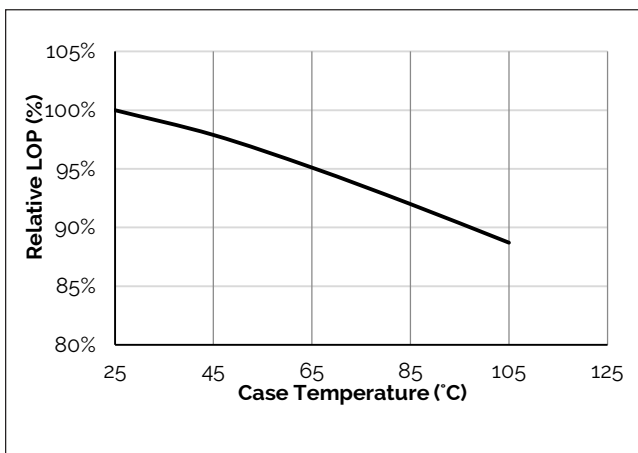
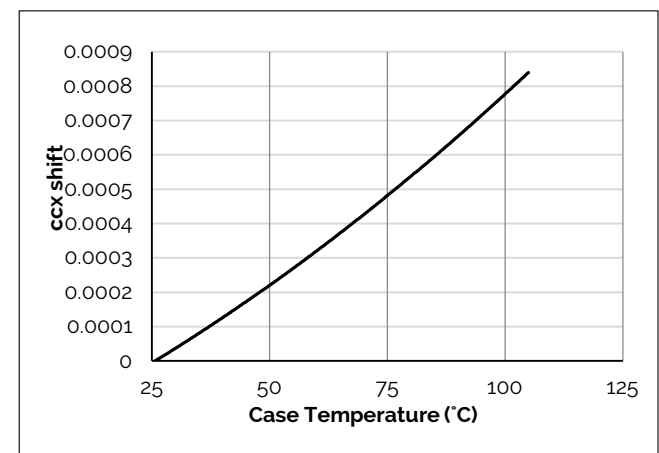


Figure 6: Typical DC ccx Shift vs. Case Temperature



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_j (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

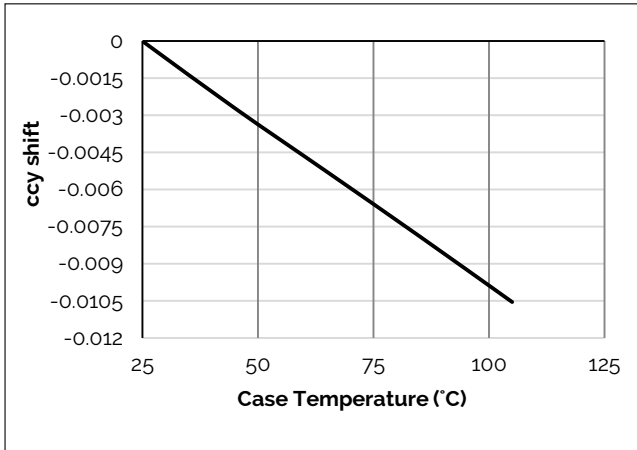


Figure 8: V13B Drive Current vs. ccx Shift

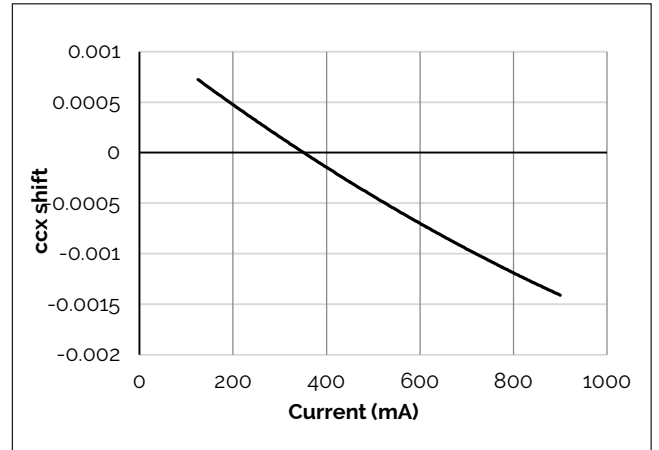


Figure 9: V13B Drive Current vs. ccy Shift

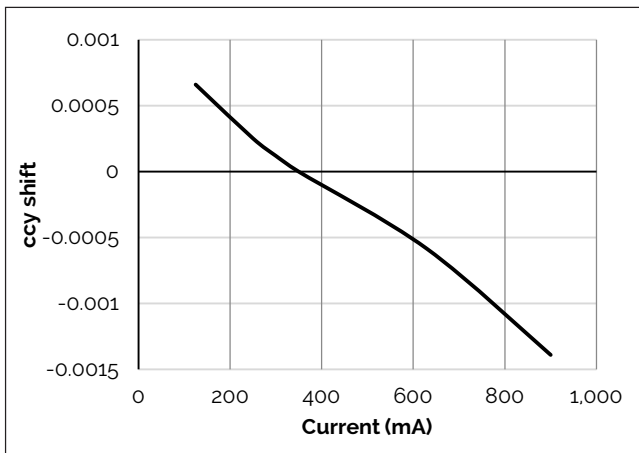


Figure 10: V13C Drive Current vs. ccx Shift

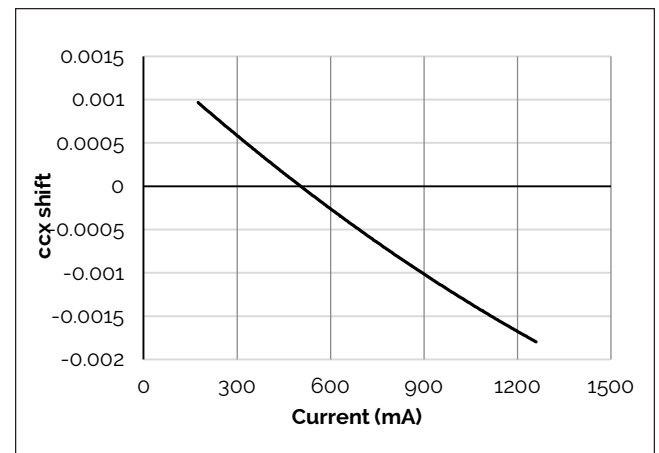
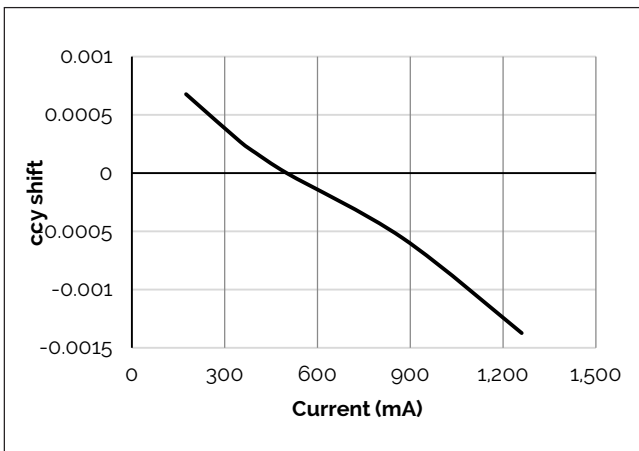


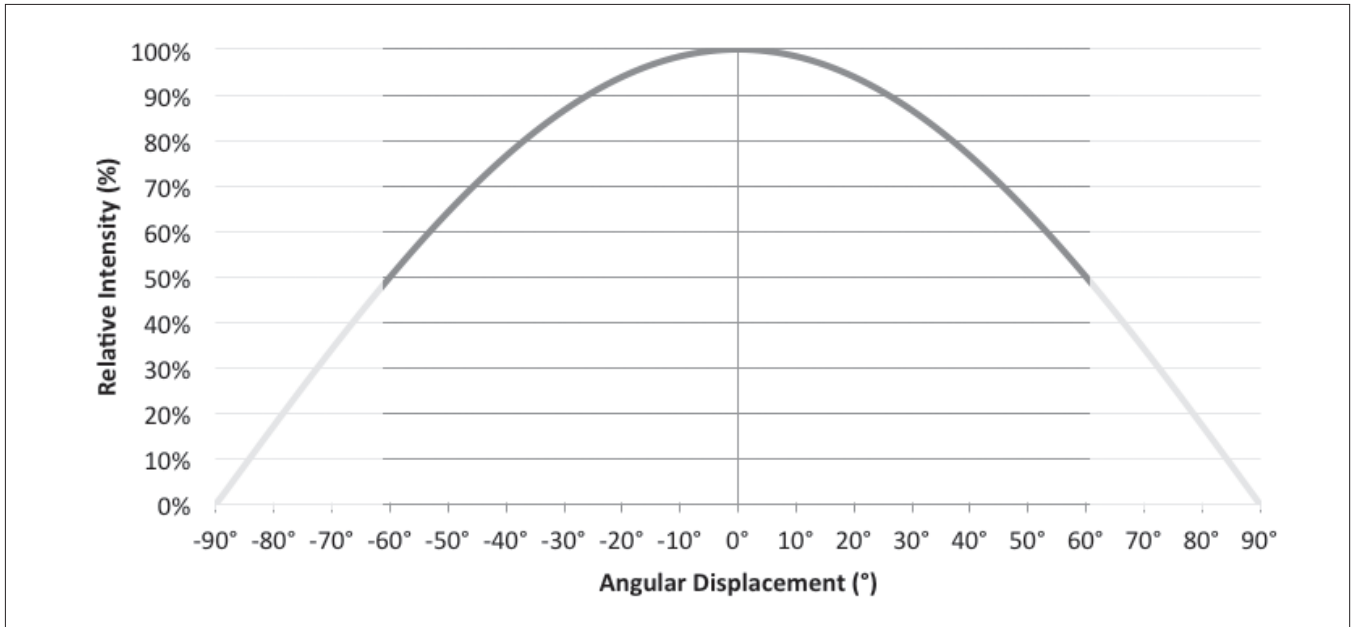
Figure 11: V13C Drive Current vs. ccy Shift



Note for Figures 7-11:
1. Characteristics shown for Warm White.

Typical Radiation Pattern

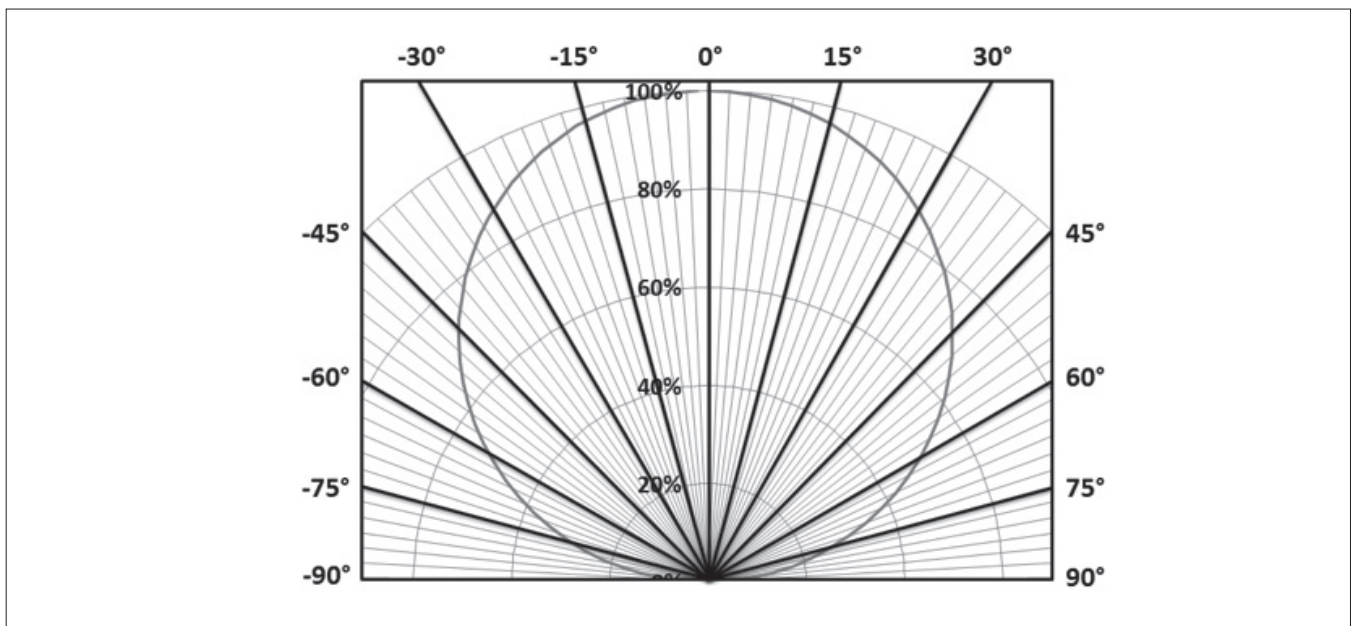
Figure 12: Typical Spatial Radiation Pattern



Notes for Figure 12:

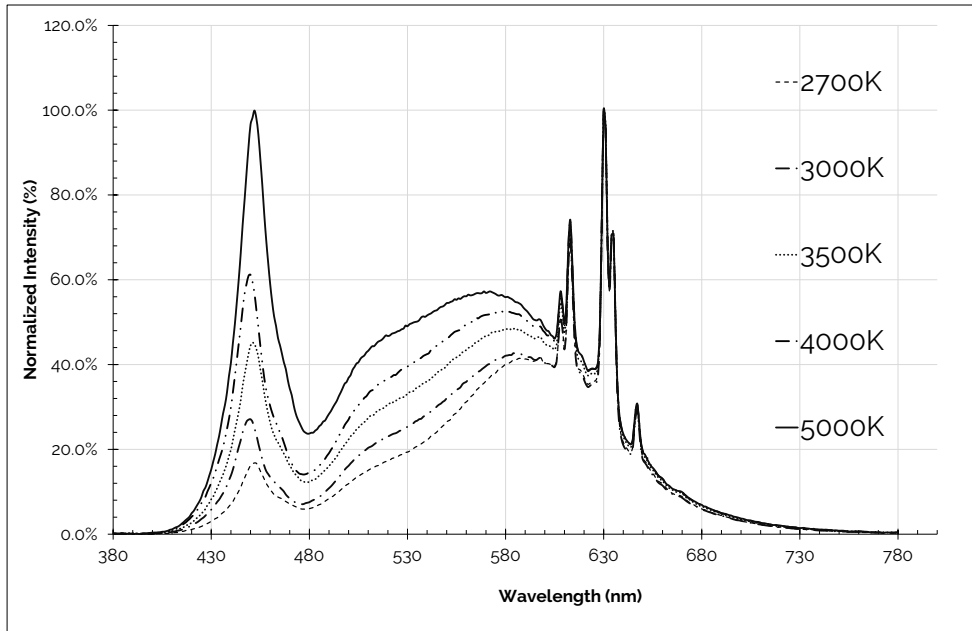
1. Typical viewing angle is 120°.
2. The viewing angle is defined as the off axis angle from the centerline where intensity is ½ of the peak value.

Figure 13: Typical Polar Radiation Pattern



Typical Color Spectrum

Figure 14: Typical Color Spectrum

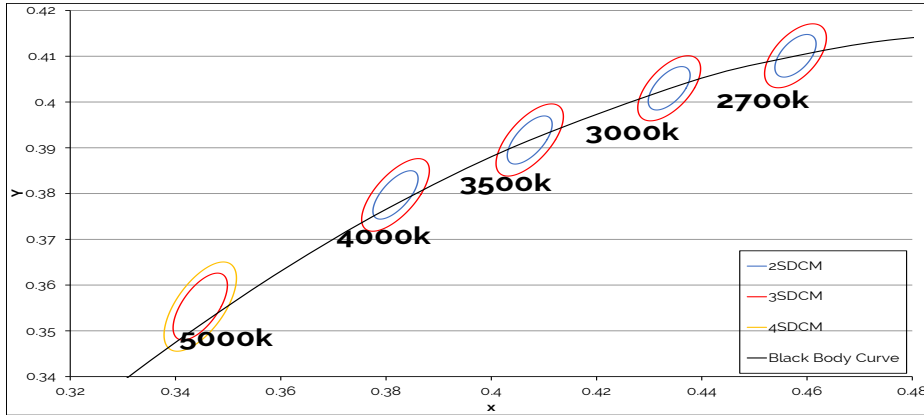


Notes for Figure 14:

1. Color spectra measured at nominal current for $T_j = T_c = 85^\circ\text{C}$.
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.
6. Color spectra shown is 5000K and 80 CRI.

Color Binning Information

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



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

Table 8: Warm and Neutral White xy Bin Coordinates and Associated Typical CCT (product is hot targeted to $T_c = 85^\circ\text{C}$)

Bin Code	2700K	3000K	3500K	4000K
ANSI Bin (for reference only)	(2580K - 2870K)	(2870K - 3220K)	(3220K - 3710K)	(3710K - 4260K)
g3 (3 SDCM)	(2651K - 2794K)	(2968K - 3136K)	(3369K - 3586K)	(3851K - 4130K)
g2 (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 $T_c = 85^\circ\text{C}$)

Bin Code	5000K
ANSI Bin (for reference only)	(4745K - 5311K)
g4 (4 SDCM)	(4801K - 5282K)
g3 (3 SDCM)	(4835K - 5215K)
Center Point (x,y)	(0.3447, 0.3553)

Note for Tables 8-g:

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: V13 Packaging Tubes



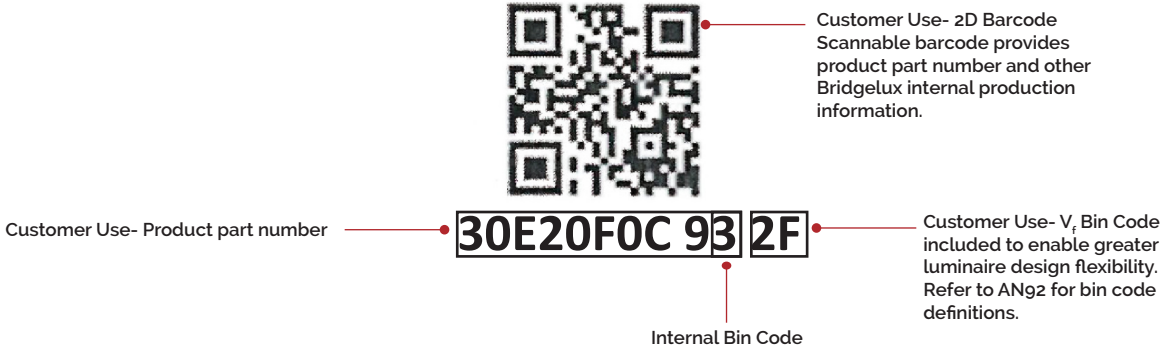
Notes for Figure 17:

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 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.

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.

Precautions

CAUTION: CHEMICAL EXPOSURE HAZARD

Exposure to some chemicals commonly used in luminaire manufacturing and assembly can cause damage to the LED array. Please consult Bridgelux Application Note AN101 for additional information.

CAUTION: RISK OF BURN

Do not touch the V Series LED array during operation. Allow the array to cool for a sufficient period of time before handling. The V Series LED array may reach elevated temperatures such that could burn skin when touched.

CAUTION: AVOID MOISTURE

The product is sensitive to moisture. It is not recommended for use in outdoor application or damp environment.

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
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Bridgelux GEN9 V13 Array Series Product Data Sheet DS1304 Rev. D (09/2024)