

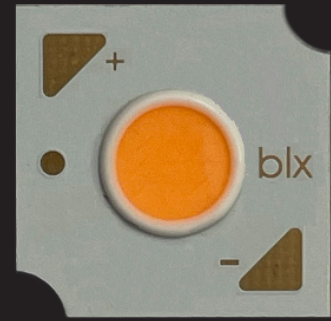
Bridgelux® Gen 8 V4 HD LED Array

Product Data Sheet DS404



Introduction

V Series HD



V Series™ HD LED array product, an ultra-high lumen density COB product line, is designed for high intensity spotlights used in commercial and retail settings. V Series HD arrays offer industry leading color over angle uniformity, and replace ceramic metal halide lamps by providing equal or greater center beam candle power at lower power and at greater lifetimes. Their tight beam control and exceptional quality of light is well suited for demanding directional spot applications.

The V4 HD LED array is available in a variety of CCT and CRI combinations providing substantial design flexibility and energy efficiencies.

Lighting system designs incorporating these LED arrays deliver increased system level efficacy and longer service life. Typical applications include, but are not limited to, commercial and residential down lights, accent, spot and track lights.

Bridgelux Décor Series™ is our state of the art color line designed specifically for premium applications, producing unmatched LED light quality with brilliant color-rendering options and offer pleasing and inspiring lighting palettes. Bridgelux Décor Series color points are available on Vero® SE Series, Vero® Series, V Series™ and V Series™ HD.

Décor Series™ Ultra products provide a high CRI of 97 and a minimum Rg value of 91, which emphasizes the reds and color tones to which the human eye is most receptive - perfect for the most luxurious retail shops and world renowned museums. Décor Series Ultra is designed as a replacement for halogen.

Features

- Efficacy of 136 lm/W typical
- Compact high flux density light source
- Uniform high quality illumination
- Minimum 80, 90 and 95 CRI options
- Streamlined thermal path
- ENERGY STAR® / ANSI compliant color binning structure with 3 SDCM options
- More energy efficient than incandescent, halogen and fluorescent lamps
- Low voltage DC operation
- Instant light with unlimited dimming

Benefits

- Enhanced optical control
- Clean white light without pixelation
- High quality true color reproduction
- Significantly reduced thermal resistance and increased operating temperatures
- Uniform consistent white light
- Lower operating costs
- Easy to use with daylight and motion detectors to enable increased energy savings
- Reduced maintenance costs
- Environmentally friendly, no disposal issue

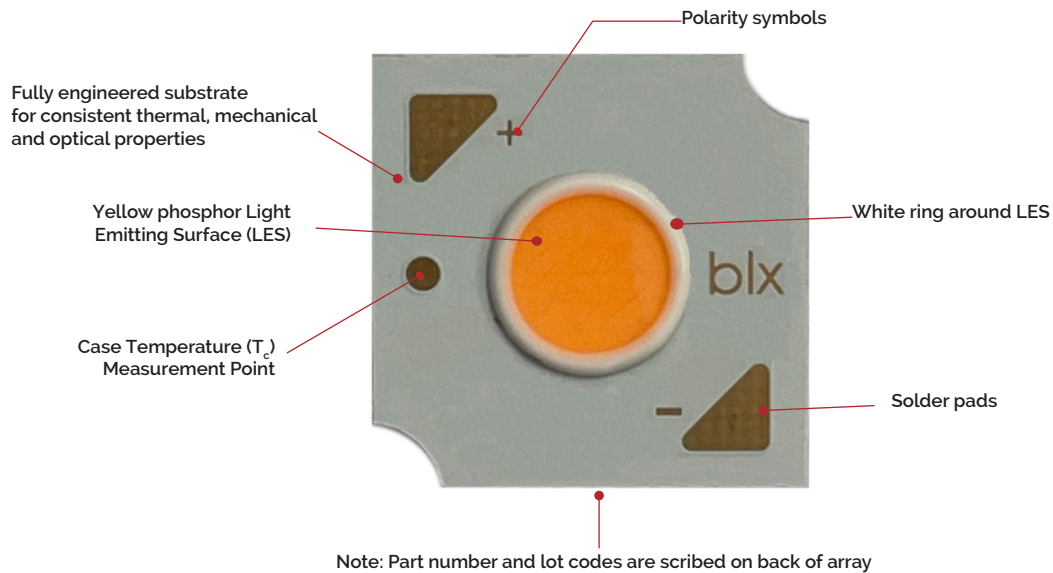
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Product Feature Map

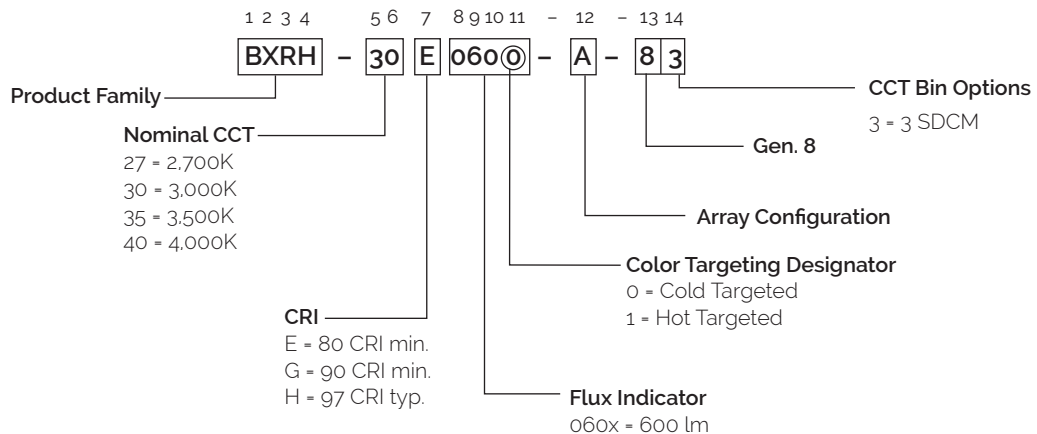
Bridgelux arrays are fully engineered devices that provide consistent thermal and optical performance on an engineered mechanical platform. The V Series HD arrays are the most compact chip-on-board devices across all of Bridgelux's LED Array products.

The arrays incorporate several features to simplify design integration and assembly. Please visit www.bridgelux.com for more information on the V Series HD family of products.



Product Nomenclature

The part number designation for Bridgelux V Series HD 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)
BXRH-22E0600-A-8x	2200	80	175	651	586	36.6	6.4	102
BXRH-22E0600-B-8x	2200	80	350	651	586	18.3	6.4	102
BXRH-22G0600-A-8x	2200	90	175	560	504	36.6	6.4	87
BXRH-22G0600-B-8x	2200	90	350	560	504	18.3	6.4	87
BXRH-22H0600-A-8x	2200	97	175	473	426	36.6	6.4	74
BXRH-22H0600-B-8x	2200	97	350	473	426	18.3	6.4	74
BXRH-24G0600-A-8x	2400	90	175	600	540	36.6	6.4	94
BXRH-24G0600-B-8x	2400	90	350	600	540	18.3	6.4	94
BXRH-24H0600-A-8x	2400	97	175	507	456	36.6	6.4	79
BXRH-24H0600-B-8x	2400	97	350	507	456	18.3	6.4	79
BXRH-25E0600-A-8x	2500	80	175	781	703	36.6	6.4	122
BXRH-25E0600-B-8x	2500	80	350	781	703	18.3	6.4	122
BXRH-27E0600-A-8x	2700	80	175	817	735	36.6	6.4	128
BXRH-27E0600-B-8x	2700	80	350	817	735	18.3	6.4	128
BXRH-27G0600-A-8x	2700	90	175	674	607	36.6	6.4	105
BXRH-27G0600-B-8x	2700	90	350	674	607	18.3	6.4	105
BXRH-27H0600-A-8x	2700	97	175	597	538	36.6	6.4	93
BXRH-27H0600-B-8x	2700	97	350	597	538	18.3	6.4	93
BXRH-30E0600-A-8x	3000	80	175	868	781	36.6	6.4	136
BXRH-30E0600-B-8x	3000	80	350	868	781	18.3	6.4	136
BXRH-30G0600-A-8x	3000	90	175	705	634	36.6	6.4	110
BXRH-30G0600-B-8x	3000	90	350	705	634	18.3	6.4	110
BXRH-30H0600-A-8x	3000	97	175	638	574	36.6	6.4	100
BXRH-30H0600-B-8x	3000	97	350	638	574	18.3	6.4	100
BXRH-35E0600-A-8x	3500	80	175	888	800	36.6	6.4	139
BXRH-35E0600-B-8x	3500	80	350	888	800	18.3	6.4	139
BXRH-35G0600-A-8x	3500	90	175	730	657	36.6	6.4	114
BXRH-35G0600-B-8x	3500	90	350	730	657	18.3	6.4	114
BXRH-35H0600-A-8x	3500	97	175	656	590	36.6	6.4	102
BXRH-35H0600-B-8x	3500	97	350	656	590	18.3	6.4	102
BXRH-40E0600-A-8x	4000	80	175	894	804	36.6	6.4	140
BXRH-40E0600-B-8x	4000	80	350	894	804	18.3	6.4	140
BXRH-40G0600-A-8x	4000	90	175	745	671	36.6	6.4	116
BXRH-40G0600-B-8x	4000	90	350	745	671	18.3	6.4	116

Notes for Table 1:

- Nominal CCT as defined by ANSI C78.377-2011.
- CRI values are typical for Decor Series Ultra. CRI values are minimums for all other products. Minimum R_g value for 80 CRI products is 0, the minimum R_g values for 90 CRI products is 50, the minimum R_g values for 97 CRI products is 91. Bridgelux maintains a ± 3 tolerance on CRI and R_g values.
- Drive current is referred to as nominal drive current.
- Products tested under pulsed condition (10ms pulse width) at nominal test 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 test current are guaranteed by 100% test.

Product Selection Guide

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

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)
BXRH-40H0600-A-8x	4000	97	175	674	607	36.6	6.4	105
BXRH-40H0600-B-8x	4000	97	350	674	607	18.3	6.4	105
BXRH-50E0601-A-8x	5000	80	175	904	813	36.6	6.4	141
BXRH-50E0601-B-8x	5000	80	350	904	813	18.3	6.4	141
BXRH-50G0601-A-8x	5000	90	175	781	703	36.6	6.4	122
BXRH-50G0601-B-8x	5000	90	350	781	703	18.3	6.4	122

Notes for Table 1:

- Nominal CCT as defined by ANSI C78.377-2011.
- CRI values are typical for Decor Series Ultra. CRI values are minimums for all other products. Minimum Rg value for 80 CRI products is 0, the minimum Rg values for 90 CRI products is 50, the minimum Rg values for 97 CRI products is 91. 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 test current are guaranteed by 100% test.

Product Selection Guide

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

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)
BXRH-22E0600-A-8x	2200	80	175	586	527	35.4	6.2	95
BXRH-22E0600-B-8x	2200	80	350	586	527	17.7	6.2	95
BXRH-22G0600-A-8x	2200	90	175	504	454	35.4	6.2	81
BXRH-22G0600-B-8x	2200	90	350	504	454	17.7	6.2	81
BXRH-22H0600-A-8x	2200	97	175	426	383	35.4	6.2	69
BXRH-22H0600-B-8x	2200	97	350	426	383	17.7	6.2	69
BXRH-24G0600-A-8x	2400	90	175	540	486	35.4	6.2	87
BXRH-24G0600-B-8x	2400	90	350	540	486	17.7	6.2	87
BXRH-24H0600-A-8x	2400	97	175	456	411	35.4	6.2	74
BXRH-24H0600-B-8x	2400	97	350	456	411	17.7	6.2	74
BXRH-25E0600-A-8x	2500	80	175	703	633	35.4	6.2	113
BXRH-25E0600-B-8x	2500	80	350	703	633	17.7	6.2	113
BXRH-27E0600-A-8x	2700	80	175	735	662	35.4	6.2	119
BXRH-27E0600-B-8x	2700	80	350	735	662	17.7	6.2	119
BXRH-27G0600-A-8x	2700	90	175	607	546	35.4	6.2	98
BXRH-27G0600-B-8x	2700	90	350	607	546	17.7	6.2	98
BXRH-27H0600-A-8x	2700	97	175	538	484	35.4	6.2	87
BXRH-27H0600-B-8x	2700	97	350	538	484	17.7	6.2	87
BXRH-30E0600-A-8x	3000	80	175	781	703	35.4	6.2	126
BXRH-30E0600-B-8x	3000	80	350	781	703	17.7	6.2	126
BXRH-30G0600-A-8x	3000	90	175	634	571	35.4	6.2	102
BXRH-30G0600-B-8x	3000	90	350	634	571	17.7	6.2	102
BXRH-30H0600-A-8x	3000	97	175	574	517	35.4	6.2	93
BXRH-30H0600-B-8x	3000	97	350	574	517	17.7	6.2	93
BXRH-35E0600-A-8x	3500	80	175	800	720	35.4	6.2	129
BXRH-35E0600-B-8x	3500	80	350	800	720	17.7	6.2	129
BXRH-35G0600-A-8x	3500	90	175	657	591	35.4	6.2	106
BXRH-35G0600-B-8x	3500	90	350	657	591	17.7	6.2	106
BXRH-35H0600-A-8x	3500	97	175	590	531	35.4	6.2	95
BXRH-35H0600-B-8x	3500	97	350	590	531	17.7	6.2	95
BXRH-40E0600-A-8x	4000	80	175	804	724	35.4	6.2	130
BXRH-40E0600-B-8x	4000	80	350	804	724	17.7	6.2	130
BXRH-40G0600-A-8x	4000	90	175	671	604	35.4	6.2	108
BXRH-40G0600-B-8x	4000	90	350	671	604	17.7	6.2	108

Notes for Table 2:

- Nominal CCT as defined by ANSI C78.377-2011.
- All CRI values are measured at $T_j = T_c = 25^\circ\text{C}$. CRI values are typical for Decor Series Ultra. CRI values are minimums for all other products. Minimum R_g value for 80 CRI products is 0, the minimum R_g values for 90 CRI products is 50, the minimum R_g values for 97 CRI products is 91. Bridgelux maintains a ± 3 tolerance on CRI and R_g values.
- Drive current is referred to as nominal drive current.
- Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.
- 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.
- 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.

Product Selection Guide

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

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)
BXRH-40H0600-A-8x	4000	97	175	607	546	35.4	6.2	98
BXRH-40H0600-B-8x	4000	97	350	607	546	17.7	6.2	98
BXRH-50E0601-A-8x	5000	80	175	813	732	36.6	6.2	127
BXRH-50E0601-B-8x	5000	80	350	813	732	18.3	6.2	127
BXRH-50G0601-A-8x	5000	90	175	703	633	36.6	6.2	110
BXRH-50G0601-B-8x	5000	90	350	703	633	18.3	6.2	110

Notes for Table 2:

- Nominal CCT as defined by ANSI C78.377-2011.
- All CRI values are measured at $T_j = T_c = 25^\circ\text{C}$. CRI values are typical for Decor Series Ultra. CRI values are minimums for all other products. Minimum Rg value for 80 CRI products is 0, the minimum Rg values for 90 CRI products is 50, the minimum Rg values for 97 CRI products is 91. Bridgelux maintains a ± 3 tolerance on CRI and Rg values.
- Drive current is referred to as nominal drive current.
- Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.
- 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.
- 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
BXRH-25E0600-A-8x	2500	80	230	37.4	862	8.6	100	F	1115642	https://eprelec.europa.eu/qr/1115642
BXRH-27E0600-A-8x	2700	80	260	39.7	1065	10.3	103	F	875777	https://eprelec.europa.eu/qr/875777
BXRH-27E0600-B-8x	2700	80	540	19.1	1065	10.3	104	F	875779	https://eprelec.europa.eu/qr/875779
BXRH-27G0600-A-8x	2700	90	210	38.2	731	8.0	91	G	875799	https://eprelec.europa.eu/qr/875799
BXRH-27G0600-B-8x	2700	90	430	18.6	731	8.0	91	G	875801	https://eprelec.europa.eu/qr/875801
BXRH-27H0600-A-8x	2700	95	180	35.0	537	6.3	85	G	875833	https://eprelec.europa.eu/qr/875833
BXRH-27H0600-B-8x	2700	95	370	17.0	537	6.3	85	G	875835	https://eprelec.europa.eu/qr/875835
BXRH-30E0600-A-8x	3000	80	300	38.2	1217	11.5	106	F	875863	https://eprelec.europa.eu/qr/875863
BXRH-30E0600-B-8x	3000	80	600	19.1	1217	11.4	106	F	875865	https://eprelec.europa.eu/qr/875865
BXRH-30G0600-A-8x	3000	90	230	37.4	805	8.6	94	F	875889	https://eprelec.europa.eu/qr/875889
BXRH-30G0600-B-8x	3000	90	470	18.2	805	8.6	94	F	875891	https://eprelec.europa.eu/qr/875891
BXRH-30H0600-A-8x	3000	95	200	37.2	654	7.4	88	G	875942	https://eprelec.europa.eu/qr/875942
BXRH-30H0600-B-8x	3000	95	410	18.1	654	7.4	88	G	875944	https://eprelec.europa.eu/qr/875944
BXRH-35E0600-A-8x	3500	80	300	38.2	1246	11.5	109	F	875980	https://eprelec.europa.eu/qr/875980
BXRH-35E0600-B-8x	3500	80	600	19.1	1246	11.4	109	F	875982	https://eprelec.europa.eu/qr/875982
BXRH-35G0600-A-8x	3500	90	240	38.2	875	9.2	95	F	876000	https://eprelec.europa.eu/qr/876000
BXRH-35G0600-B-8x	3500	90	500	18.3	875	9.1	96	F	876002	https://eprelec.europa.eu/qr/876002
BXRH-35H0600-A-8x	3500	95	210	38.2	712	8.0	89	G	876024	https://eprelec.europa.eu/qr/876024
BXRH-35H0600-B-8x	3500	95	440	18.2	712	8.0	89	G	876026	https://eprelec.europa.eu/qr/876026
BXRH-40E0600-A-8x	4000	80	300	38.2	1253	11.5	109	F	876042	https://eprelec.europa.eu/qr/876042
BXRH-40E0600-B-8x	4000	80	600	19.1	1253	11.4	110	F	876044	https://eprelec.europa.eu/qr/876044
BXRH-40G0600-A-8x	4000	90	250	39.0	934	9.7	96	F	876064	https://eprelec.europa.eu/qr/876064
BXRH-40G0600-B-8x	4000	90	520	18.7	934	9.7	96	F	876066	https://eprelec.europa.eu/qr/876066
BXRH-40H0600-A-8x	4000	95	220	39.1	770	8.6	90	G	876088	https://eprelec.europa.eu/qr/876088
BXRH-40H0600-B-8x	4000	95	460	18.6	770	8.6	90	G	876090	https://eprelec.europa.eu/qr/876090

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/4b6zv4m>.
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 HD LED arrays are tested to the specifications shown using the nominal drive currents in Table 1. V Series HD 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.

Table 4: Product Performance at Commonly Used Drive Currents

Part Number	CRI	Drive Current ¹ (mA)	Typical V _f T _c = 25°C (V)	Typical Power T _c = 25°C (W)	Typical Flux ² T _c = 25°C (lm)	Typical DC Flux ³ T _c = 85°C (lm)	Typical Efficacy T _c = 25°C (lm/W)
BXRH-22E0600-A-8x	80	85	34.1	2.9	341	307	117
		130	35.5	4.6	501	451	109
		175	36.6	6.4	651	586	102
		220	37.8	8.3	791	712	95
		240	38.2	9.2	850	765	92
		300	39.5	11.8	1014	913	86
BXRH-22E0600-B-8x	80	170	17.1	2.9	341	307	117
		260	17.7	4.6	501	451	109
		350	18.3	6.4	651	586	102
		440	18.9	8.3	791	712	95
		480	19.1	9.2	850	765	92
		600	19.7	11.8	1014	913	86
BXRH-22G0600-A-8x	90	85	34.1	2.9	293	264	101
		130	35.5	4.6	431	388	93
		175	36.6	6.4	560	504	87
		220	37.8	8.3	681	613	82
		240	38.2	9.2	731	658	80
		300	39.5	11.9	872	785	74
BXRH-22G0600-B-8x	90	170	17.1	2.9	293	264	101
		260	17.7	4.6	431	388	94
		350	18.3	6.4	560	504	87
		440	18.9	8.3	681	613	82
		480	19.1	9.2	731	658	80
		600	19.7	11.8	872	785	74
BXRH-22H0600-A-8x	97	85	34.1	2.9	247	223	85
		130	35.5	4.6	364	328	79
		175	36.6	6.4	473	426	74
		220	37.8	8.3	575	517	69
		240	38.2	9.2	617	556	67
		300	39.5	11.9	737	663	62
BXRH-22H0600-B-8x	97	170	17.1	2.9	247	223	85
		260	17.7	4.6	364	328	79
		350	18.3	6.4	473	426	74
		440	18.9	8.3	575	517	69
		480	19.1	9.2	617	556	67
		600	19.7	11.8	737	663	62

Notes for Table 4:

1. Alternate drive currents 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 Current ¹ (mA)	Typical V _f T _c = 25°C (V)	Typical Power T _c = 25°C (W)	Typical Flux ² T _c = 25°C (lm)	Typical DC Flux ³ T _c = 85°C (lm)	Typical Efficacy T _c = 25°C (lm/W)
BXRH-24G0600-A-8x	90	85	34.1	2.9	314	282	108
		130	35.5	4.6	462	416	100
		175	36.6	6.4	600	540	94
		220	37.8	8.3	729	656	88
		240	38.2	9.2	783	705	85
		300	39.5	11.9	935	841	79
BXRH-24G0600-B-8x	90	170	17.1	2.9	314	282	108
		260	17.7	4.6	462	416	100
		350	18.3	6.4	600	540	94
		440	18.9	8.3	729	656	88
		480	19.1	9.2	783	705	85
		600	19.7	11.8	935	841	79
BXRH-24H0600-A-8x	97	85	34.1	2.9	265	239	91
		130	35.5	4.6	390	351	85
		175	36.6	6.4	507	456	79
		220	37.8	8.3	616	555	74
		240	38.2	9.2	662	596	72
		300	39.5	11.9	790	711	67
BXRH-24H0600-B-8x	97	170	17.1	2.9	265	239	91
		260	17.7	4.6	390	351	85
		350	18.3	6.4	507	456	79
		440	18.9	8.3	616	555	74
		480	19.1	9.2	662	596	72
		600	19.7	11.8	790	711	67
BXRH-25E0600-A-8x	80	85	34.1	2.9	409	368	141
		130	35.5	4.6	601	541	130
		175	36.6	6.4	781	703	122
		220	37.8	8.3	949	854	114
		240	38.2	9.2	1020	918	111
		300	39.5	11.8	1217	1095	103
BXRH-25E0600-B-8x	80	170	17.1	2.9	409	368	141
		260	17.7	4.6	601	541	130
		350	18.3	6.4	781	703	122
		440	18.9	8.3	949	854	114
		480	19.1	9.2	1020	918	111
		600	19.7	11.8	1217	1095	103
BXRH-27E0600-A-8x	80	85	34.1	2.9	427	385	147
		130	35.5	4.6	629	566	136
		175	36.6	6.4	817	735	128
		220	37.8	8.3	993	893	119
		240	38.2	9.2	1066	960	116
		300	39.5	11.8	1273	1146	107

Notes for Table 4:

1. Alternate drive currents 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 Current ¹ (mA)	Typical V _f T _c = 25°C (V)	Typical Power T _c = 25°C (W)	Typical Flux ² T _c = 25°C (lm)	Typical DC Flux ³ T _c = 85°C (lm)	Typical Efficacy T _c = 25°C (lm/W)
BXRH-27E0600-B-8x	80	170	17.1	2.9	427	385	147
		260	17.7	4.6	629	566	136
		350	18.3	6.4	817	735	128
		440	18.9	8.3	993	893	119
		480	19.1	9.2	1066	960	116
		600	19.7	11.8	1273	1146	107
BXRH-27G0600-A-8x	90	85	34.1	2.9	353	317	121
		130	35.5	4.6	519	467	113
		175	36.6	6.4	674	607	105
		220	37.8	8.3	819	737	99
		240	38.2	9.2	880	792	96
		300	39.5	11.8	1050	945	89
BXRH-27G0600-B-8x	90	170	17.1	2.9	353	317	121
		260	17.7	4.6	519	467	113
		350	18.3	6.4	674	607	105
		440	18.9	8.3	819	737	99
		480	19.1	9.2	880	792	96
		600	19.7	11.8	1050	945	89
BXRH-27H0600-A-8x	97	85	34.1	2.9	312	281	108
		130	35.5	4.6	460	414	100
		175	36.6	6.4	597	538	93
		220	37.8	8.3	726	653	87
		240	38.2	9.2	780	702	85
		300	39.5	11.8	931	838	79
BXRH-27H0600-B-8x	97	170	17.1	2.9	312	281	108
		260	17.7	4.6	460	414	100
		350	18.3	6.4	597	538	93
		440	18.9	8.3	726	653	87
		480	19.1	9.2	780	702	85
		600	19.7	11.8	931	838	79
BXRH-30E0600-A-8x	80	85	34.1	2.9	454	409	156
		130	35.5	4.6	668	601	145
		175	36.6	6.4	868	781	136
		220	37.8	8.3	1055	949	127
		240	38.2	9.2	1133	1020	123
		300	39.5	11.8	1352	1217	114
BXRH-30E0600-B-8x	80	170	17.1	2.9	454	409	156
		260	17.7	4.6	668	601	145
		350	18.3	6.4	868	781	136
		440	18.9	8.3	1055	949	127
		480	19.1	9.2	1133	1020	123
		600	19.7	11.8	1352	1217	114

Notes for Table 4:

1. Alternate drive currents 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 Current ¹ (mA)	Typical V _f T _c = 25°C (V)	Typical Power T _c = 25°C (W)	Typical Flux ² T _c = 25°C (lm)	Typical DC Flux ³ T _c = 85°C (lm)	Typical Efficacy T _c = 25°C (lm/W)
BXRH-30G0600-A-8x	90	85	34.1	2.9	369	332	127
		130	35.5	4.6	542	488	118
		175	36.6	6.4	705	634	110
		220	37.8	8.3	856	770	103
		240	38.2	9.2	920	828	100
		300	39.5	11.8	1098	988	93
BXRH-30G0600-B-8x	90	170	17.1	2.9	369	332	127
		260	17.7	4.6	542	488	118
		350	18.3	6.4	705	634	110
		440	18.9	8.3	856	770	103
		480	19.1	9.2	920	828	100
		600	19.7	11.8	1098	988	93
BXRH-30H0600-A-8x	97	85	34.1	2.9	334	300	115
		130	35.5	4.6	491	442	107
		175	36.6	6.4	638	574	100
		220	37.8	8.3	775	698	93
		240	38.2	9.2	833	750	91
		300	39.5	11.8	994	895	84
BXRH-30H0600-B-8x	97	170	17.1	2.9	334	300	115
		260	17.7	4.6	491	442	107
		350	18.3	6.4	638	574	100
		440	18.9	8.3	775	698	93
		480	19.1	9.2	833	750	91
		600	19.7	11.8	994	895	84
BXRH-35E0600-A-8x	80	85	34.1	2.9	465	418	160
		130	35.5	4.6	684	615	148
		175	36.6	6.4	888	800	139
		220	37.8	8.3	1079	971	130
		240	38.2	9.2	1160	1044	126
		300	39.5	11.8	1384	1246	117
BXRH-35E0600-B-8x	80	170	17.1	2.9	465	418	160
		260	17.7	4.6	684	615	148
		350	18.3	6.4	888	800	139
		440	18.9	8.3	1079	971	130
		480	19.1	9.2	1160	1044	126
		600	19.7	11.8	1384	1246	117
BXRH-35G0600-A-8x	90	85	34.1	2.9	382	344	132
		130	35.5	4.6	562	506	122
		175	36.6	6.4	730	657	114
		220	37.8	8.3	887	798	107
		240	38.2	9.2	953	858	104
		300	39.5	11.8	1138	1024	96

Notes for Table 4:

1. Alternate drive currents 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 Current ¹ (mA)	Typical V _f T _c = 25°C (V)	Typical Power T _c = 25°C (W)	Typical Flux ² T _c = 25°C (lm)	Typical DC Flux ³ T _c = 85°C (lm)	Typical Efficacy T _c = 25°C (lm/W)
BXRH-35G0600-B-8x	90	170	17.1	2.9	382	344	132
		260	17.7	4.6	562	506	122
		350	18.3	6.4	730	657	114
		440	18.9	8.3	887	798	107
		480	19.1	9.2	953	858	104
		600	19.7	11.8	1138	1024	96
BXRH-35H0600-A-8x	97	85	34.1	2.9	343	309	118
		130	35.5	4.6	505	454	110
		175	36.6	6.4	656	590	102
		220	37.8	8.3	797	717	96
		240	38.2	9.2	856	771	93
		300	39.5	11.8	1022	920	86
BXRH-35H0600-B-8x	97	170	17.1	2.9	343	309	118
		260	17.7	4.6	505	454	110
		350	18.3	6.4	656	590	102
		440	18.9	8.3	797	717	96
		480	19.1	9.2	856	771	93
		600	19.7	11.8	1022	920	86
BXRH-40E0600-A-8x	80	85	34.1	2.9	467	421	161
		130	35.5	4.6	688	619	149
		175	36.6	6.4	894	804	140
		220	37.8	8.3	1086	977	131
		240	38.2	9.2	1166	1050	127
		300	39.5	11.8	1392	1253	118
BXRH-40E0600-B-8x	80	170	17.1	2.9	467	421	161
		260	17.7	4.6	688	619	149
		350	18.3	6.4	894	804	140
		440	18.9	8.3	1086	977	131
		480	19.1	9.2	1166	1050	127
		600	19.7	11.8	1392	1253	118
BXRH-40G0600-A-8x	90	85	34.1	2.9	390	351	134
		130	35.5	4.6	574	516	124
		175	36.6	6.4	745	671	116
		220	37.8	8.3	906	815	109
		240	38.2	9.2	973	876	106
		300	39.5	11.8	1161	1045	98
BXRH-40G0600-B-8x	90	170	17.1	2.9	390	351	134
		260	17.7	4.6	574	516	124
		350	18.3	6.4	745	671	116
		440	18.9	8.3	906	815	109
		480	19.1	9.2	973	876	106
		600	19.7	11.8	1161	1045	98

Notes for Table 4:

1. Alternate drive currents 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 Current ¹ (mA)	Typical V _f T _c = 25°C (V)	Typical Power T _c = 25°C (W)	Typical Flux ² T _c = 25°C (lm)	Typical DC Flux ³ T _c = 85°C (lm)	Typical Efficacy T _c = 25°C (lm/W)
BXRH-40H0600-A-8x	97	85	34.1	2.9	353	317	121
		130	35.5	4.6	519	467	113
		175	36.6	6.4	674	607	105
		220	37.8	8.3	819	737	99
		240	38.2	9.2	880	792	96
		300	39.5	11.8	1050	945	89
BXRH-40H0600-B-8x	97	170	17.1	2.9	353	317	121
		260	17.7	4.6	519	467	113
		350	18.3	6.4	674	607	105
		440	18.9	8.3	819	737	99
		480	19.1	9.2	880	792	96
		600	19.7	11.8	1050	945	89
BXRH-50E0601-A-8x	80	85	34.1	2.9	473	426	163
		130	35.5	4.6	695	626	151
		175	36.6	6.4	904	813	141
		220	37.8	8.3	1098	988	132
		240	38.2	9.2	1180	1062	129
		300	39.5	11.8	1408	1267	119
BXRH-50E0601-B-8x	80	170	17.1	2.9	473	426	163
		260	17.7	4.6	695	626	151
		350	18.3	6.4	904	813	141
		440	18.9	8.3	1098	988	132
		480	19.1	9.2	1180	1062	129
		600	19.7	11.8	1408	1267	119
BXRH-50G0601-A-8x	90	85	34.1	2.9	409	368	141
		130	35.5	4.6	601	541	130
		175	36.6	6.4	781	703	122
		220	37.8	8.3	949	854	114
		240	38.2	9.2	1019	918	111
		300	39.5	11.8	1217	1095	103
BXRH-50G0601-B-8x	90	170	17.1	2.9	409	368	141
		260	17.7	4.6	601	541	131
		350	18.3	6.4	781	703	122
		440	18.9	8.3	949	854	114
		480	19.1	9.2	1019	918	111
		600	19.7	11.8	1217	1095	103

Notes for Table 4:

1. Alternate drive currents 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.

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/ $^\circ\text{C}$)	Typical Thermal Resistance Junction to Case ^{5,6} R_{j-c} ($^\circ\text{C}/\text{W}$)	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)
BXRH-xxx060x-A-8x	175	33.9	36.6	39.3	-20.00	1.43	32.3	40.6
	300	36.5	39.5	42.5	-21.58	1.67	34.8	43.9
BXRH-xxx060x-B-8x	350	16.9	18.3	19.7	-10.00	1.43	16.1	20.3
	600	18.2	19.7	21.2	-10.77	1.67	17.4	21.9

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. This product has passed dielectric withstand voltage testing at 500 V. The working voltage designated for the insulation is 50V 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)	CCT ^{1,3}	
		2700K/3000K	4000K ²
BXRH-xxx060x-A-8x	175	RG1	RG1
	300	RG1	RG2
BXRH-xxx060x-B-8x	350	RG1	RG1
	600	RG1	RG2

Notes for Table 6:

1. Eye safety classification for the use of Bridgelux V Series HD 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, $E_{thr} = 1760$ lx.
3. Please contact your Bridgelux sales representative for E_{thr} values at specific drive currents and CCTs not listed.

Absolute Maximum Ratings

Table 7: Maximum Ratings

Parameter	Maximum Rating	
LED Junction Temperature (T _J)	125°C	
Storage Temperature	-40°C to +105°C	
Operating Case Temperature ¹ (T _C)	105°C	
Soldering Temperature ²	350°C or lower for a maximum of 6 seconds	
	BXRH-xxx060x-A-8x	BXRH-xxx060x-B-8x
Maximum Drive Current ³	300 mA	600 mA
Maximum Peak Pulsed Drive Current ⁴	340 mA	680 mA
Maximum Reverse Voltage ⁵	-60V	-30V

Notes for Table 7:

1. For IEC 62717 requirement, please consult your Bridgelux sales representative.
2. Refer to Bridgelux Application Note AN101: Handling and Assembly of Bridgelux V Series LED Arrays.
3. Arrays may be driven at higher currents however lumen maintenance may be reduced and warranty will not apply.
4. 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.
5. 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: V4A HD Drive Current vs. Voltage ($T_j = T_c = 25^\circ\text{C}$)¹

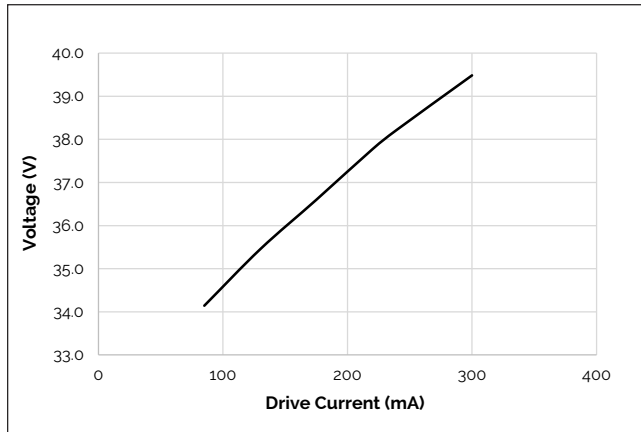


Figure 2: V4B HD Drive Current vs. Voltage ($T_j = T_c = 25^\circ\text{C}$)¹

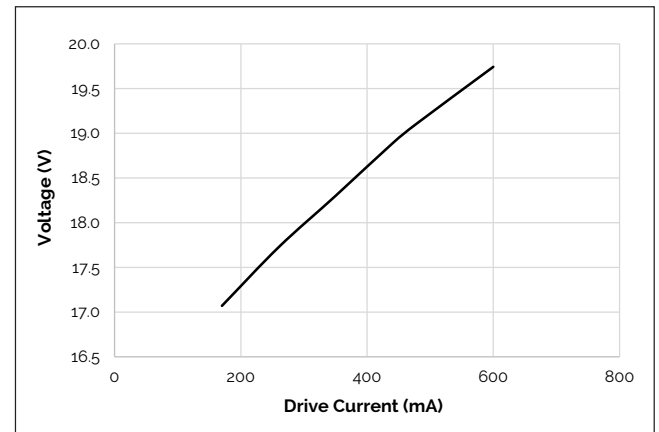


Figure 3: V4A HD Typical Relative Luminous Flux vs. Drive Current ($T_j = T_c = 25^\circ\text{C}$)¹

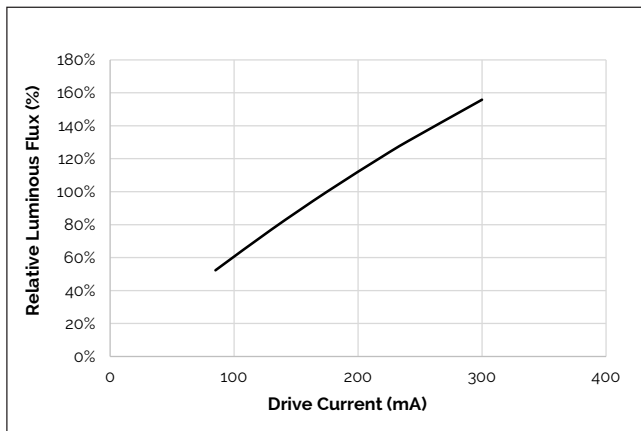


Figure 4: V4B HD Typical Relative Luminous Flux vs. Drive Current ($T_j = T_c = 25^\circ\text{C}$)¹

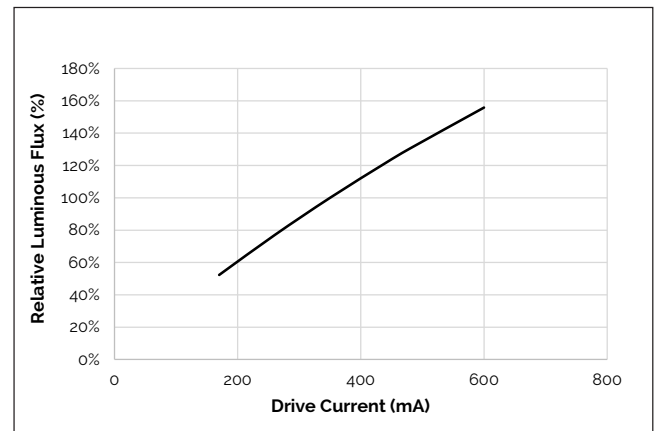


Figure 5: Typical DC Flux vs. Case Temperature

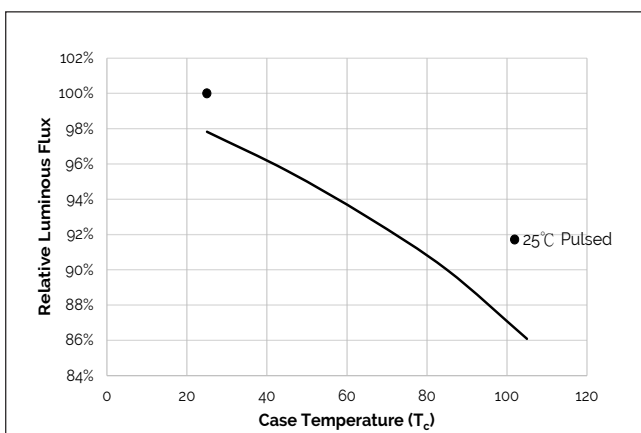
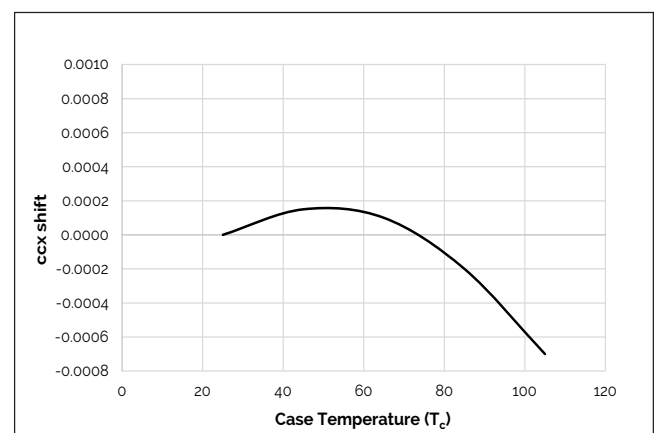


Figure 6: Typical DC cxx Shift vs. Case Temperature



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. Characteristics shown for 3000K and 90 CRI.

Performance Curves

Figure 7: Typical DC ccy Shift vs. Case Temperature

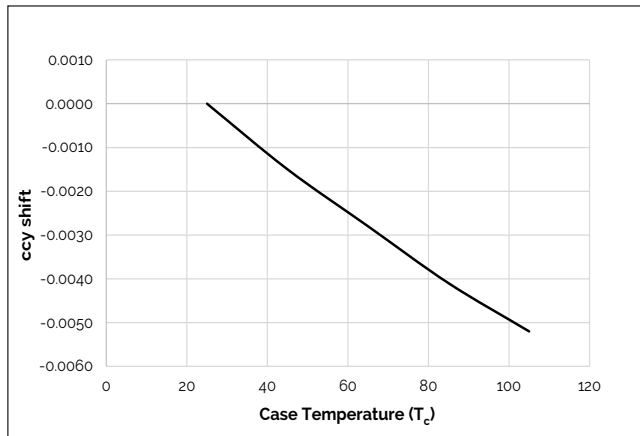
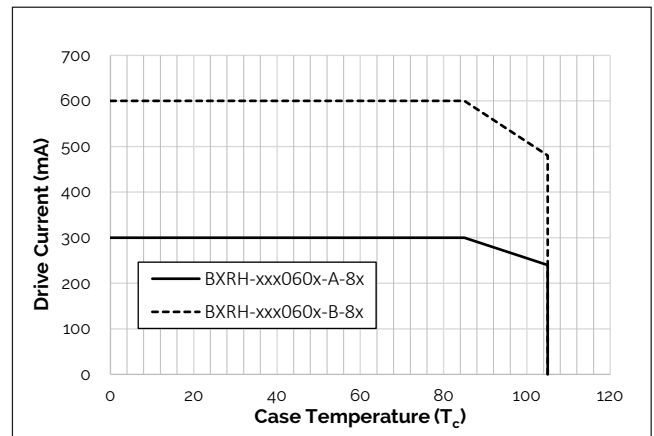


Figure 8: Derating Curve

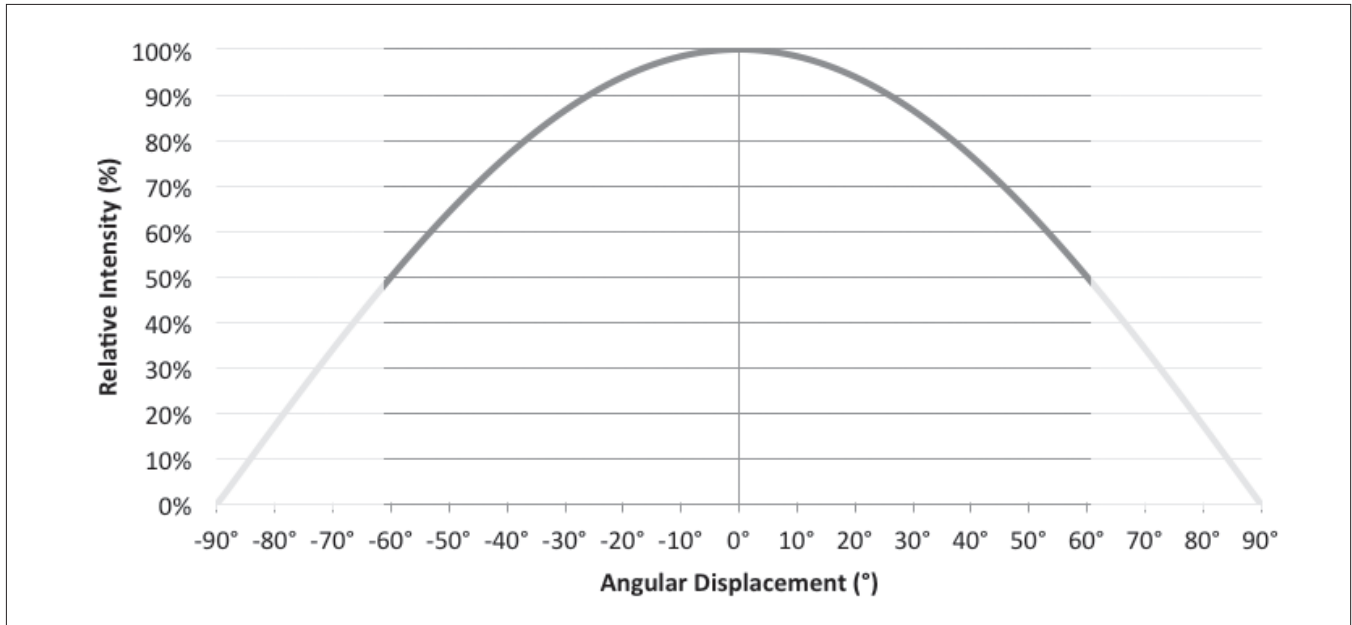


Notes for Figures 7:

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. Characteristics shown for 3000K and 90 CRI.

Typical Radiation Pattern

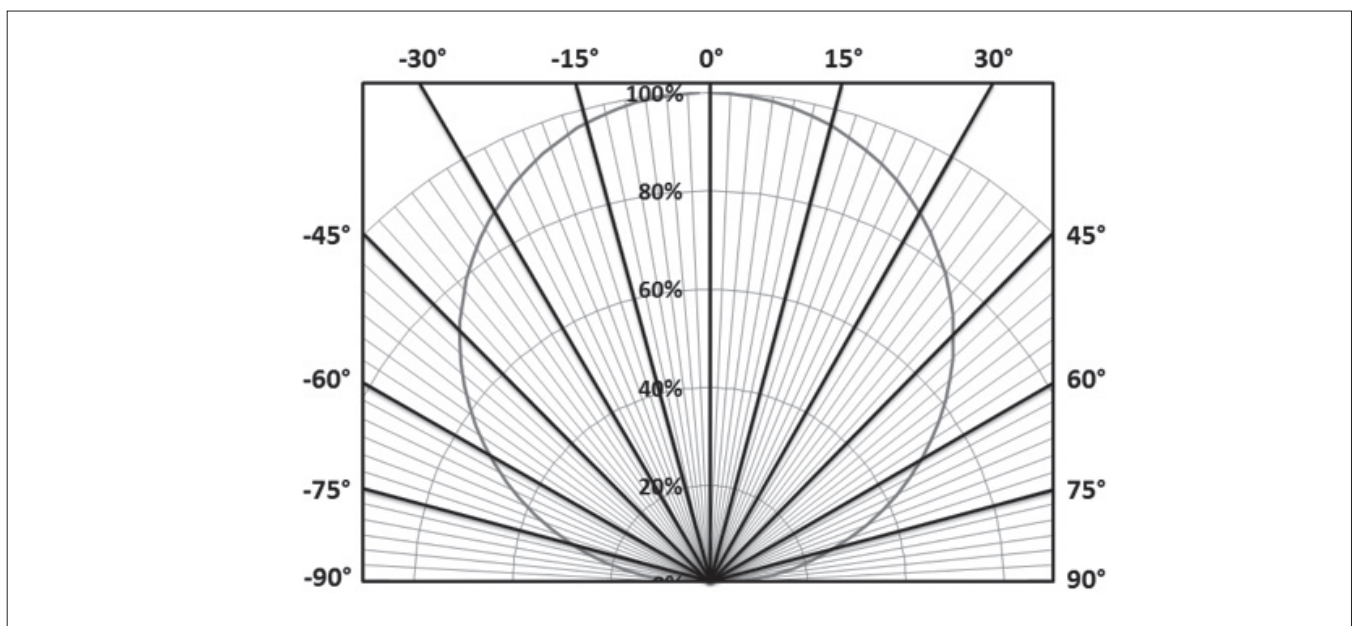
Figure 9: Typical Spatial Radiation Pattern



Notes for Figure 9:

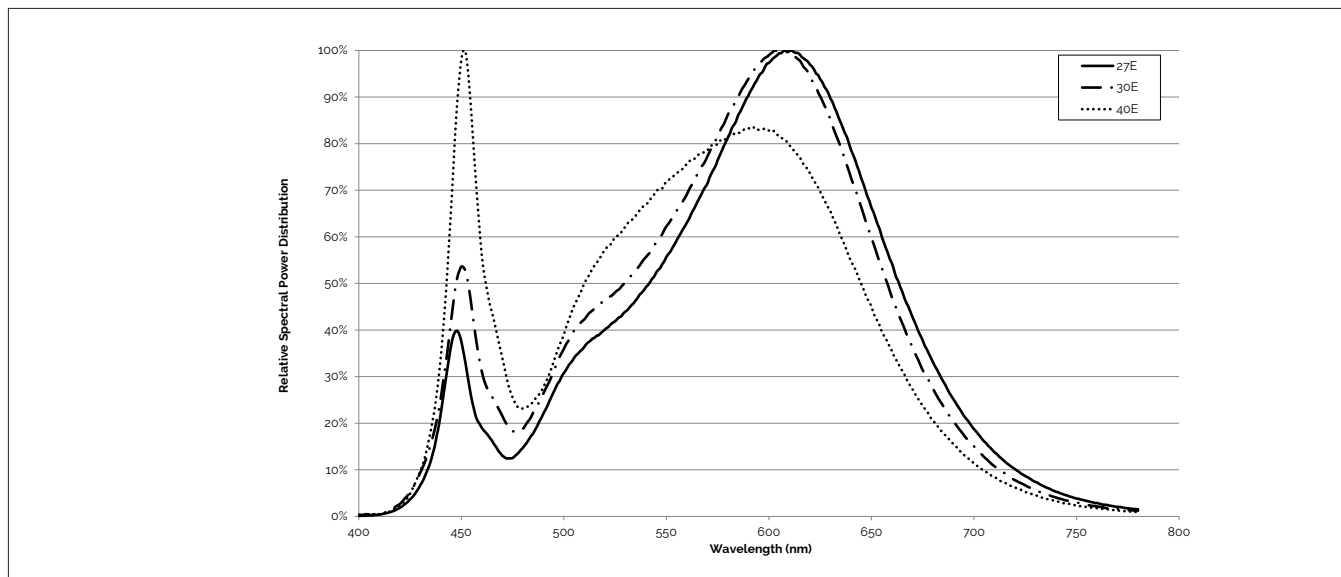
1. Typical viewing angle is 120°.
2. The viewing angle is defined as the off axis angle from the centerline where intensity is ½ of the peak value.

Figure 10: Typical Polar Radiation Pattern



Typical Color Spectrum

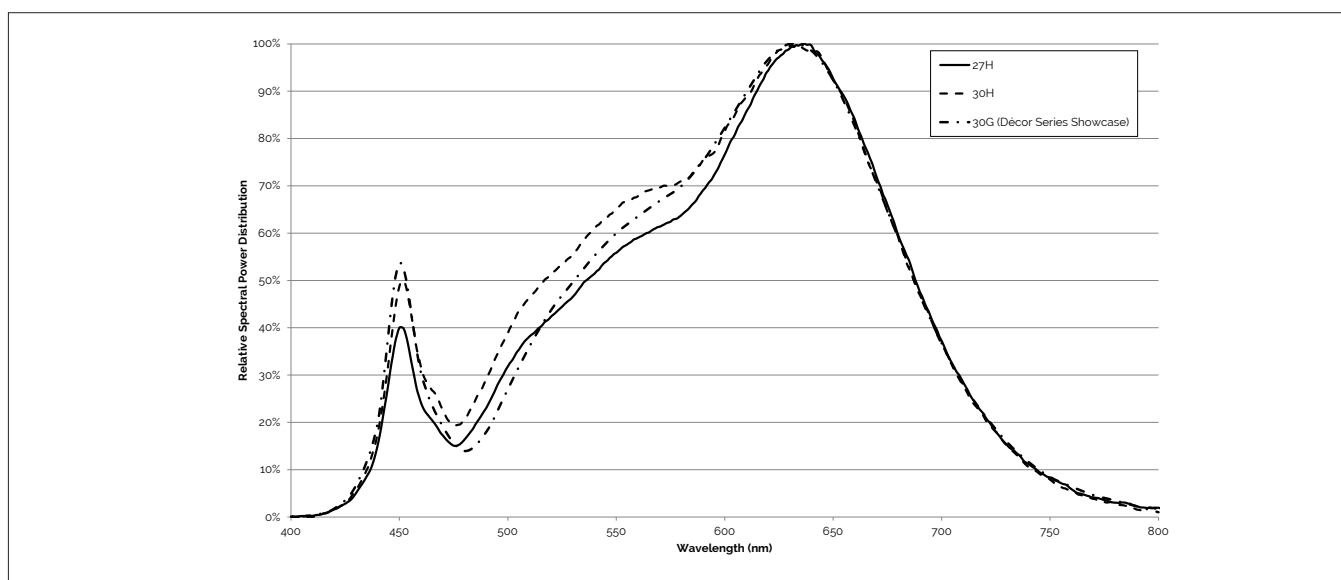
Figure 11: Typical Color Spectrum



Notes for Figure 11:

1. Color spectra measured at nominal current for $T_j = T_c = 25^\circ\text{C}$.
2. Color spectra shown is 2700K and 80 CRI.
3. Color spectra shown is 3000K and 80 CRI.
4. Color spectra shown is 4000K and 80 CRI.

Figure 12: Typical Color Spectrum for Décor Series

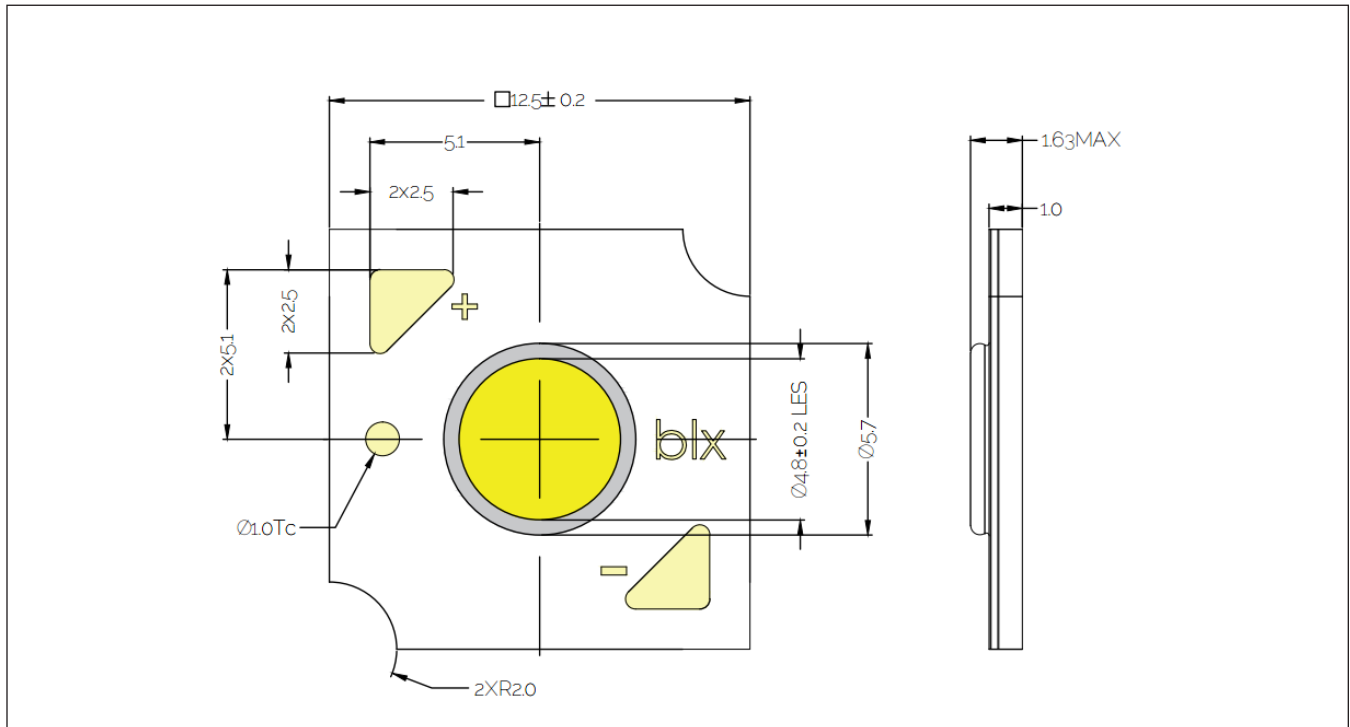


Note for Figure 12:

1. Color spectra measured at nominal current for $T_j = T_c = 25^\circ\text{C}$.

Mechanical Dimensions

Figure 13: Drawing for V4 HD LED Array

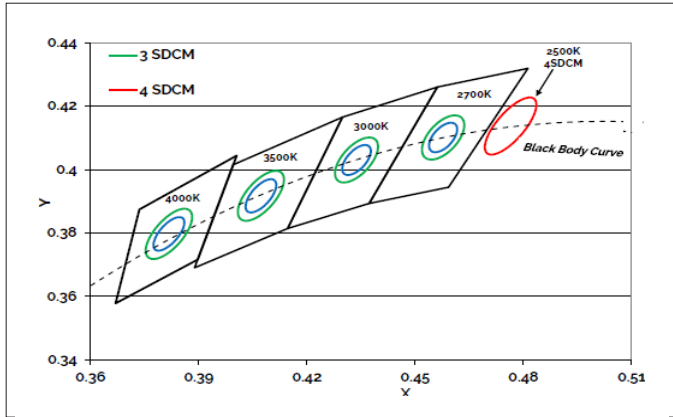


Notes for Figure 13:

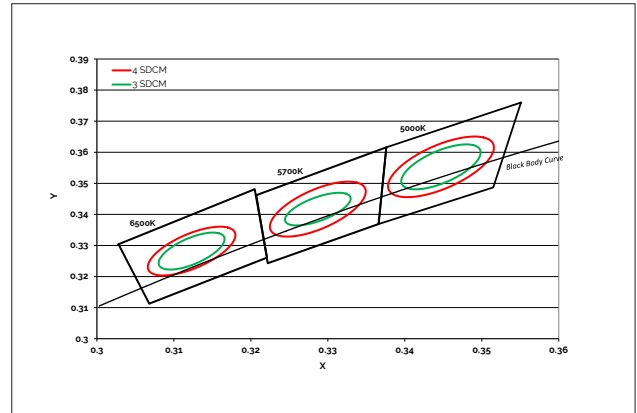
1. Drawings are not to scale.
2. Drawing dimensions are in millimeters.
3. Solder pads are labeled "+" and "-" to denote positive and negative polarity, respectively.
4. Unless otherwise specified, tolerances are ± 0.1 mm.
5. Refer to Application Notes AN101 for product handling, mounting and heat sink recommendations.
6. The optical center of the LED Array is nominally defined by the mechanical center of the array to a tolerance of ± 0.2 mm.
7. Bridgelux maintains a flatness of 0.10 mm across the mounting surface of the array.

Color Binning Information

Figure 14: Warm and Neutral White Test Bins in xy Color Space **Figure 15: Cool White Test Bins in xy Color Space**



Note: Pulsed Test Conditions, $T_c = 25^\circ\text{C}$



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

Table 8: Warm and Neutral White xy Bin Coordinates and Associated Typical CCT

Bin Code	2200K	2400K	2500K	2700K	3000K	3500K	4000K
ANSI Bin (for reference only)	(2207K-2309K)	(2300K-2500K)	-	(2580K - 2870K)	(2870K - 3220K)	(3220K - 3710K)	(3710K - 4260K)
83 (3 SDCM)	(2207K-2309K)	(2336K-2454K)	-	(2651K - 2794K)	(2968K - 3136K)	(3369K - 3586K)	(3851K - 4130K)
82 (2 SDCM)	(2224K-2291K)	(2355K-2433K)	-	(2674K - 2769K)	(2995K - 3107K)	(3404K - 3548K)	(3895K - 4081K)
Center Point (x,y)	(0.5018, 0.4153)	(0.489, 0.4182)	(0.4765, 0.4137)	(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 $T_c = 85^\circ\text{C}_g$)

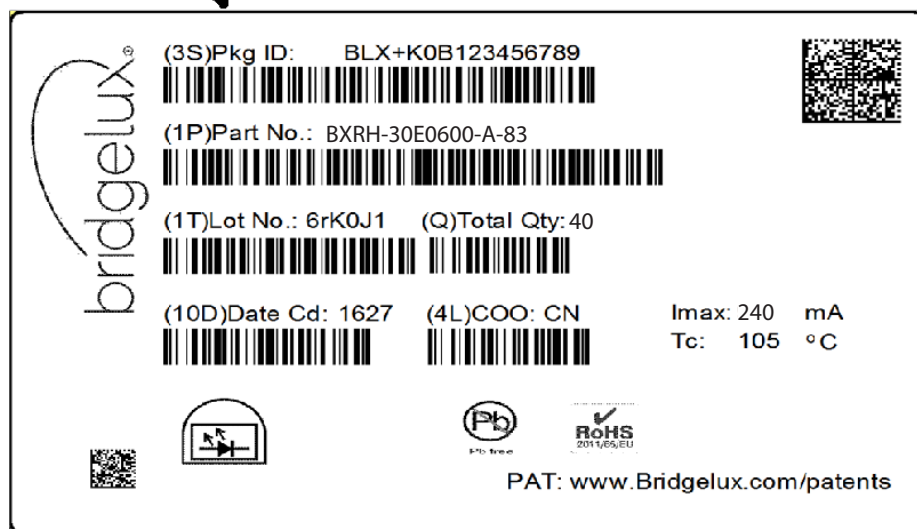
Bin Code	5000K
ANSI Bin (for reference only)	(4745K - 5311K)
84 (4 SDCM)	(4801K - 5282K)
83 (3 SDCM)	(4835K - 5215K)
Center Point (x,y)	(0.3447, 0.3553)

Note for Table 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 16: V4 HD Packaging Tube



Box Label

Commercial Invoice
and Packing list



Notes for Figure 16:

1. Each tube holds 40 V4 HD 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 14.3 (W) x 8.3(H) x 530 (L) mm. Dimensions for the anti-static bag are 75 (W) x 615 (L) x 0.075 (T) mm. Dimensions for the shipping box are 58.7 x 13.3 x 7.9 cm

Packaging and Labeling

Figure 17: V Series HD 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 HD 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 representatives 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 HD LED array during operation. Allow the array to cool for a sufficient period of time before handling. The V Series HD 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.

For more information about the company, please visit
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46410 Fremont Boulevard
Fremont, CA 94538 USA
Tel (925) 583-8400
www.bridgelux.com

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