



Bridgelux® Gen 8 V4 HD LED Array

Product Data Sheet DS404-3







Introduction

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™ 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 116 lm/W typical
- · Compact high flux density light source
- · Uniform high quality illumination
- · Minimum 90 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









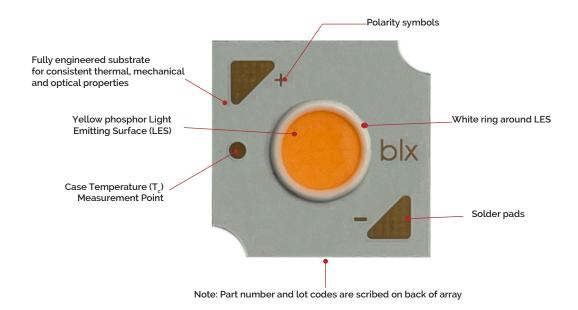
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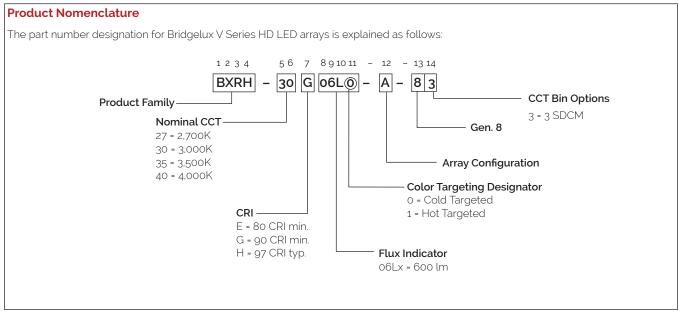
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Product Feature Map

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-borad 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 Selection Guide

The following product configurations are available:

Table 1: Selection Guide, Pulsed Measurement Data (T_i = T_c = 25°C)

Part Number	Nominal CCT¹ (K)	CRI²	Nominal Drive Current ³ (mA)	Typical Pulsed Flux ^{45,6} T _c = 25°C (lm)	Minimum Pulsed Flux ^{6,7} T _c = 25°C (lm)	Typical V _f (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRH-27G06L0-A-8x	2700	90	175	674	607	36.6	6.4	105
BXRH-27G06L0-B-8x	2700	90	350	674	607	18.3	6.4	105
BXRH-27G06L0-C-8x	2700	90	700	674	607	9.1	6.4	105
BXRH-30G06L0-A-8x	3000	90	175	705	634	36.6	6.4	110
BXRH-30G06L0-B-8x	3000	90	350	705	634	18.3	6.4	110
BXRH-30G06L0-C-8x	3000	90	700	705	634	9.1	6.4	110
BXRH-40G06L0-A-8x	4000	90	175	745	671	36.6	6.4	116
BXRH-40G06L0-B-8x	4000	90	350	745	671	18.3	6.4	116
BXRH-40G06L0-C-8x	4000	90	700	745	671	9.1	6.4	116

Notes for Table 1:

- 1. Nominal CCT as defined by ANSI C78.377-2011.
- 2. 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.
- 3. Drive current is referred to as nominal drive current.
- 4. Products tested under pulsed condition (10ms pulse width) at nominal test current where T_i (junction temperature) = T_c (case temperature) = 25°C.
- 5. Typical performance values are provided as a reference only and are not a guarantee of performance.
- 6. Bridgelux maintains a ±7% tolerance on flux measurements.
- 7. Minimum flux values at the nominal test current are guaranteed by 100% test.

Product Selection Guide

Table 2: Selection Guide, Stabilized DC Performance (T_c = 85°C)

Part Number	Nominal CCT¹ (K)	CRI²	Nominal Drive Current ³ (mA)	Typical DC Flux⁴⁵ T _c = 85°C (lm)	Minimum DC Flux ⁶ T _c = 85°C (lm)	Typical V _f (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRH-27G06L0-A-8x	2700	90	175	607	546	35.4	6.2	98
BXRH-27G06L0-B-8x	2700	90	350	607	546	17.7	6.2	98
BXRH-27G06L0-C-8x	2700	90	700	607	546	8.9	6.2	98
BXRH-30G06L0-A-8x	3000	90	175	634	571	35.4	6.2	102
BXRH-30G06L0-B-8x	3000	90	350	634	571	17.7	6.2	102
BXRH-30G06L0-C-8x	3000	90	700	634	571	8.9	6.2	102
BXRH-40G06L0-A-8x	4000	90	175	671	604	35.4	6.2	108
BXRH-40G06L0-B-8x	4000	90	350	671	604	17.7	6.2	108
BXRH-40G06L0-C-8x	4000	90	700	671	604	8.9	6.2	108

Notes for Table 2:

- 1. Nominal CCT as defined by ANSI C78.377-2011.
- 2. All CRI values are measured at T₂ = T₂ = 25°C. CRI values are typical for Decor Series Ultra . CRI values are minimums for all other products. . The minimum Rg values for 90 CRI products is 50. Bridgelux maintains a ± 3 tolerance on CRI and Rg values.
- 3. Drive current is referred to as nominal drive current.
- 4. Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.
- 5. Typical performance is estimated based on operation under DC (direct current) with LED array mounted onto a heat sink with thermal interface material and the case temperature maintained at 85°C. Based on Bridgelux test setup, values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.
- 6. Minimum flux values at elevated temperatures are provided for reference only and are not guaranteed by 100% production testing. Based on Bridgelux test setup, values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.

European Product Registry for Energy Labeling

The European Product Registry for Energy Labeling (EPREL) is defined in the EU Regulation 2017/1369 to provide important energy efficiency information to consumers. Together with Energy Labeling Regulation ELR (EU) 2019/2015 which was amended by regulation (EU) 2021/340 for energy labelling of light sources, manufacturers are required to declare an energy class based on key technical specifications from each of their product and register it in an open data base managed by EPREL It is now a legal requirement for a vendor of light sources to upload information about their products into the EPREL database before placing these products on the market in the EU.

Table 3 below provides a list of part numbers that are in compliance with ELR and are currently listed in the EPREL database.

At Bridgelux, we are fully committed to supplying products that are compliant with pertinent laws, rules, and obligation imposed by relevant government bodies including the European Energy Labeling regulation. Customers can use these products with full confidence for any projects that fall under the ELR.

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

PART NUMBER ¹	CCT (K)	CRI	Current² (mA)	Vf (V)	Useful flux³ (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
BXRH-27G06L0-A-8x	2700	90	150	38.2	470	5.7	82	G X	1115646	https://eprel.ec.europa.eu/gr/1115646
BXRH-27G06L0-B-8x	2700	90	310	18.4	470	5.7	82	G	1115648	https://eprel.ec.europa.eu/qr/1115648
BXRH-27G06L0-C-8x	2700	90	640	9.0	470	5.7	82	G	1115650	https://eprel.ec.europa.eu/qr/1115650
BXRH-30G06L0-A-8x	3000	90	160	35.8	491	5.7	86	G	1115658	https://eprel.ec.europa.eu/qr/1115658
BXRH-30G06L0-B-8x	3000	90	340	16.8	491	5.7	86	G	1115660	https://eprel.ec.europa.eu/qr/1115660
BXRH-30G06L0-C-8x	3000	90	690	8.3	491	5.7	86	G	1115662	https://eprel.ec.europa.eu/qr/1115662
BXRH-40G06L0-A-8x	4000	90	180	38.2	601	6.9	87	G	1115679	https://eprel.ec.europa.eu/qr/1115679
BXRH-40G06L0-B-8x	4000	90	370	18.5	601	6.9	88	G	1115681	https://eprel.ec.europa.eu/qr/1115681
BXRH-40G06L0-C-8x	4000	90	760	9.0	601	6.9	87	G	1115683	https://eprel.ec.europa.eu/qr/1115683

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 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 Current¹ (mA)	Typical V _f T _c = 25°C (V)	Typical Power T _c = 25°C (W)	Typical Flux² T _o = 25°C (lm)	Typical DC Flux³ T _c = 85°C (lm)	Typical Efficacy T _c = 25°C (lm/W)
		85	34.1	2.9	353	317	121
		130	35.5	4.6	519	467	113
DVDII 27C06L0 A 9v		175	36.6	6.4	674	607	105
BXRH-27G06L0-A-8x	90	220	37.8	8.3	819	737	99
		240	38.2	9.2	880	792	96
		300	39.5	11.8	1050	945	89
		170	17.1	2.9	353	317	121
		260	17.7	4.6	519	467	113
DVDII 27C06L0 D 0v		350	18.3	6.4	674	607	105
BXRH-27G06L0-B-8x	90	440	18.9	8.3	819	737	99
		480	19.1	9.2	880	792	96
		600	19.7	11.8	1050	945	89
	90	340	8.5	2.9	353	317	121
		520	8.8	4.6	519	467	113
DVDII 27C06L0 C 0v		700	9.1	6.4	674	607	105
BXRH-27G06L0-C-8x		880	9.4	8.3	819	737	99
		960	9.6	9.2	880	792	96
		1200	9.8	11.8	1050	945	89
		85	34.1	2.9	369	332	127
		130	35.5	4.6	542	488	118
DVDII aaCaci a A O.		175	36.6	6.4	705	634	110
BXRH-30G06L0-A-8x	90	220	37.8	8.3	856	770	103
		240	38.2	9.2	920	828	100
		300	39.5	11.8	1098	988	93
		170	17.1	2.9	369	332	127
		260	17.7	4.6	542	488	118
DVDIICCI D		350	18.3	6.4	705	634	110
BXRH-30G06L0-B-8x	90	440	18.9	8.3	856	770	103
		480	19.1	9.2	920	828	100
		600	19.7	11.8	1098	988	93
		340	8.5	2.9	369	332	127
		520	8.8	4.6	542	488	118
DVDII C-CI C-C		700	9.1	6.4	705	634	110
BXRH-30G06L0-C-8x	90	880	9.4	8.3	856	770	103
		960	9.6	9.2	920	828	100
		1200	9.8	11.8	1098	988	93

Notes for Table 4:

- 1. Alternate drive currents 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 Current¹ (mA)	Typical V _f T _c = 25°C (V)	Typical Power T _c = 25°C (W)	Typical Flux² T _c = 25°C (lm)	Typical DC Flux³ T¸ = 85°C (lm)	Typical Efficacy T _c = 25°C (lm/W)
		85	34.1	2.9	390	351	134
		130	35.5	4.6	574	516	124
BXRH-40G06L0-A-8x	90	175	36.6	6.4	745	671	116
DARI I-40GUOLU-A-OX	90	220	37.8	8.3	906	815	109
		240	38.2	9.2	973	876	106
		300	39.5	11.8	1161	1045	98
		170	17.1	2.9	390	351	134
		260	17.7	4.6	574	516	124
BXRH-40G06L0-B-8x		350	18.3	6.4	745	671	116
DART-40GUULU-D-0X	90	440	18.9	8.3	906	815	109
		480	19.1	9.2	973	876	106
		600	19.7	11.8	1161	1045	98
		340	8.5	2.9	390	351	134
		520	8.8	4.6	574	516	124
BXRH-40G06L0-C-8x		700	9.1	6.4	745	671	116
DAKT-40000LU-C-0X	90	880	9.4	8.3	906	815	109
		960	9.6	9.2	973	876	106
		1200	9.8	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.

Electrical Characteristics

Table 5: Electrical Characteristics

Part Number		Forward Voltage Pulsed, T _c = 25°C (V) ^{1,2,3,8}			Typical Coefficient	Typical Thermal	Driver Selection Voltages ⁷ (V)	
	Drive Current (mA)	Minimum	Typical	Maximum	of Forward Voltage⁴ ∆V,∕∆T _c (mV/°C)	Resistance Junction to Case ⁵⁶ R _{j-c} (°C/W)	V _F Min. Hot T _c = 105°C (V)	V _f Max. Cold T _c = -40°C (V)
BXRH-xxxo6Lx-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
DVDI - O D O	350	16.9	18.3	19.7	-10.00	1.43	16.1	20.3
BXRH-xxx06Lx-B-8x	600	18.2	19.7	21.2	-10.77	1.67	17.4	21.9
BXRH-xxx06Lx-C-8x	700	8.5	9.1	9.8	-5.00	1.43	8.0	10.2
	1200	9.1	9.8	10.6	-5.38	1.67	8.7	10.9

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 80 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 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}			
	(IIIA)	2700K/3000K	4000K²		
BXRH-xxx06Lx-A-8x	175	RG1	RG1		
	300	RG1	RG2		
DVDI - CI D O	350	RG1	RG1		
BXRH-xxxo6Lx-B-8x	600	RG1	RG2		
DVDI I anno Class Cons	700	RG1	RG1		
BXRH-xxx06Lx-C-8x	1200	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, $\rm E_{thr}\textsc{=}\ 1760\ lx.$
- 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 Temperature¹ (T _c)	105°C					
Soldering Temperature ²	300°C or lower for a maximum of 6 seconds					
	BXRH-xxx06Lx-A-8x	BXRH-xxx06Lx-B-8x	BXRH-xxx06Lx-C-8x			
Maximum Drive Current ³	300 mA	600 mA	1200 mA			
Maximum Peak Pulsed Drive Current ⁴	340 mA	680 mA	1390 mA			
Maximum Reverse Voltage⁵	-6oV	-30V	-15V			

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_i = T_c = 25°C)¹

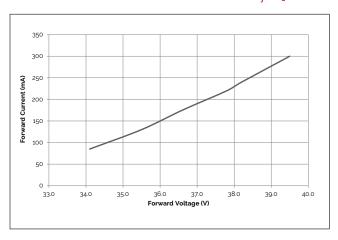


Figure 3: V4C HD Drive Current vs. Voltage (T_i = T_c = 25°C)¹

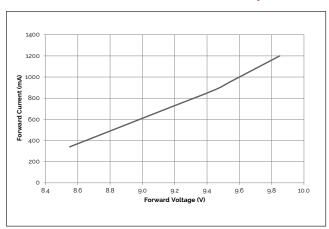
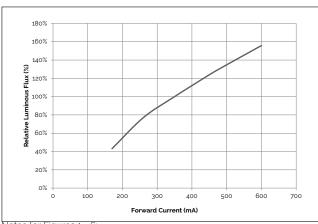


Figure 5: V4B HD Typical Relative Luminous Flux vs. Drive Current $(T_i = T_c = 25^{\circ}C)^{\circ}$



Notes for Figures 1 - 6:

Figure 2: V4B HD Drive Current vs. Voltage (T_i = T_c = 25°C)¹

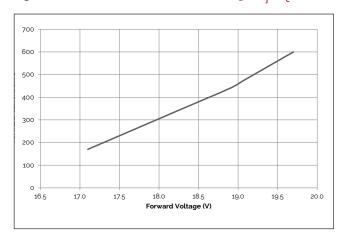


Figure 4: V4A HD Typical Relative Luminous Flux vs. Drive Current $(T_i = T_c = 25^{\circ}C)^{1}$

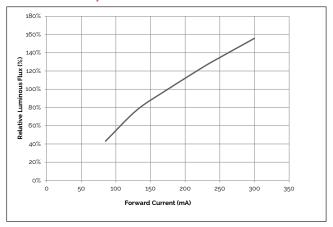
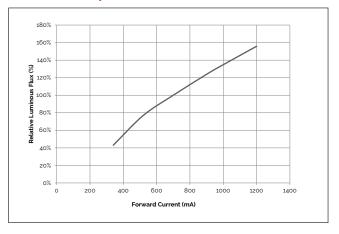


Figure 6: V4C HD Typical Relative Luminous Flux vs. Drive Current $(T_i = T_c = 25^{\circ}C)^{1}$



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 Flux vs. Case Temperature

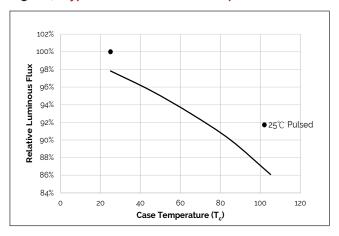


Figure 8: Typical DC ccx Shift vs. Case Temperature

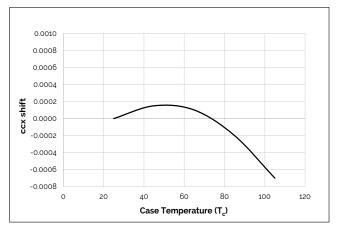


Figure 9: Typical DC ccy Shift vs. Case Temperature

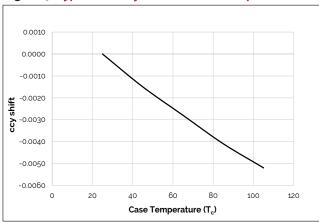
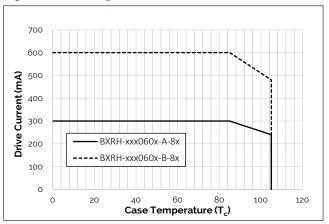


Figure 10: Derating Curve

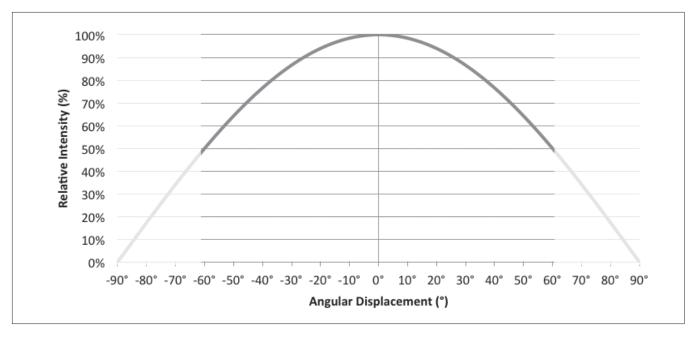


Notes for Figures 7-9:

- 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

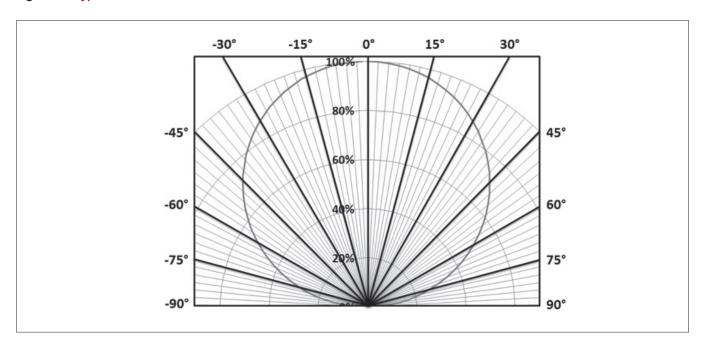
Figure 11: Typical Spatial Radiation Pattern



Notes for Figure 11:

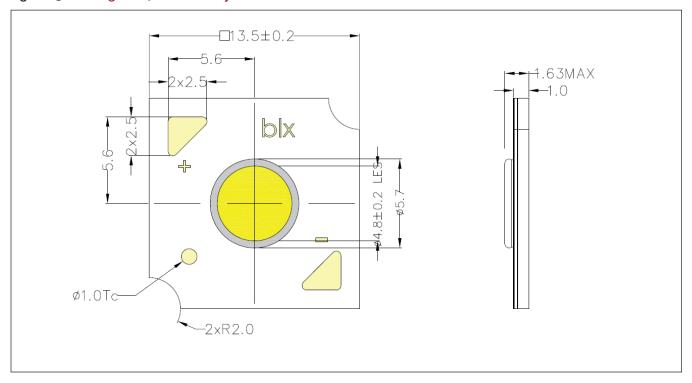
- 1. Typical viewing angle is 120°.
- 2. The viewing angle is defined as the off axis angle from the centerline where intensity is $\frac{1}{2}$ of the peak value.

Figure 12: Typical Polar Radiation Pattern



Mechanical Dimensions

Figure 13: Drawing for V4 HD LED Array

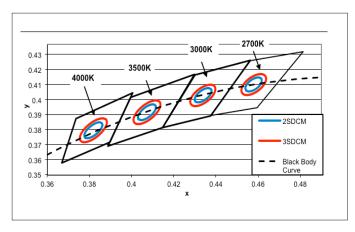


Notes for Figure 13:

- 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 ±0.1mm.
- 5. Refer to Application Notes AN101 for product handling, mounting and heat sink recommendations.
- $6. \ \ \, \text{The optical center of the LED Array is nominally defined by the mechanical center of the array to a tolerance of \pm 0.2mm.}$
- 7. Bridgelux maintains a flatness of 0.10mm across the mounting surface of the array.

Color Binning Information

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



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

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

Bin Code	2700K	3000K	4000K
ANSI Bin (for reference only)	(2580K - 2870K)	(2870K - 3220K)	(3710K - 4260K)
83 (3 SDCM)	(2651K - 2794K)	(2968K - 3136K)	(3851K - 4130K)
82 (2 SDCM)	(2674K - 2769K)	(2995K - 3107K)	(3895K - 4081K)
Center Point (x,y)	(0.4578, 0.4101)	(0.4338, 0.403)	(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 15: V4 HD Packaging Tube



Notes for Figure 15:

- 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) \times 8.3(H) \times 530 (L) mm. Dimensions for the anti-static bag are 75 (W) \times 615 (L) \times 0.075 (T) mm. Dimensions for the shipping box are 58.7 \times 13.3 \times 7.9 cm

Packaging and Labeling

Figure 16: 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.

Precautions

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.

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 bridgelux.com
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