

Bridgelux ES Star Array Series

Data Sheet DS 21 – Expiration date – 10 May 2011

BXRB – XXX0540-A, - XXX0740-A, - 40E0810-A, - 56C0700-A, - 56C1000-A

Introduction

The Bridgelux family of LED Array products delivers high performance, compact and cost-effective solid-state lighting solutions to serve the general lighting market. These products combine the higher efficacy, lifetime, and reliability benefits of LEDs with the light output levels of many conventional lighting sources. The Bridgelux ES Array Series has been specified to enable lamp and luminaire designs surpassing efficacy and quality of light requirements driven by regulatory standards with reasonable system design margins, enabling lighting product compliance to Energy Star, Title 24, Part L and other global standards.

The Bridgelux ES Array products provide a high performance alternative to conventional solid state solutions, delivering between 400 and 1000 lumens under application conditions in warm, neutral and cool white color temperatures. These compact high flux density light sources deliver uniform high quality illumination without pixilation or the multiple shadow effect caused by LED component based solutions. To simplify system design for appropriate light output, Bridgelux LED Arrays are specified to deliver performance under typical use conditions.

These integrated plug and play solutions reduce system complexity and enable miniaturized cost-effective lamp and luminaire designs. Lighting system designs incorporating these LED Arrays deliver comparable performance to that of 20-40 Watt incandescent and halogen, 7-18 Watt compact fluorescent, and 8-50 Watt HID based luminaires and feature increased system level efficacy and service life. Typical applications include replacement lamps, task, accent, spot, retail, track, down light, low bay, wide area, security, wall pack and street lighting.

Features

- Compact high flux density light source
- Uniform high quality illumination
- Streamlined thermal path
- Energy Star / ANSI compliant binning structure
- More energy efficient than incandescent, halogen and fluorescent lamps
- Low voltage DC operation
- Instant light with unlimited dimming
- 5-year warranty
- RoHS compliant and Pb free

Benefits

- Enhanced optical control
- Clean white light without pixilation
- Significantly reduced thermal resistance and increased operating temperatures
- Uniform consistent white light
- Lower operating costs
- Increased safety
- 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 Nomenclature

The part number designation for Bridgelux LED Arrays is explained as follows:

BXRB – AB C DEFG – H – IJ - KLM

Where:

BXRB – Designates product family

AB – Designates the nominal ANSI color temperature; 27 = 2700K; 30 =3000K, etc

C - Designates minimum CRI; A=60, C=70, E=80, G=90

DEFG - Designates Nominal Flux; 0400=400lm, 0800=800lm, 1200=1200lm, etc

H – Designates configuration

IJ – Designates CCT Bin options
(3000K as an example)

00=Full ANSI - Q3, Q4, R3, R4;

Q1=2 bins - Q3+Q4;

Q3=Single bin - Q3 bin;

Q4=Single bin - Q4 bin;

03=3 SDCM

KLM – Designates wire option

Average Lumen Maintenance Characteristics

Bridgelux projects that its family of LED Array products will deliver, on average, greater than 70% lumen maintenance after 50,000 hours of operation at the rated forward test current. This performance assumes constant current operation with case temperature maintained at or below 70°C. For use beyond these typical operating conditions please consult your Bridgelux sales representative for further assistance.

These projections are based on a combination of package test data, semiconductor chip reliability data, a fundamental understanding of package related degradation mechanisms, and performance observed from products installed in the field using Bridgelux die technology. Bridgelux conducts lumen maintenance tests per LM80. Observation of design limits is required in order to achieve this projected lumen maintenance.

Environmental Compliance

Bridgelux is committed to providing environmentally friendly products to the solid-state lighting market. Bridgelux LED Arrays are compliant to the European Union directives on the restriction of hazardous substances in electronic equipment, namely the RoHS directive. Bridgelux will not intentionally add the following restricted materials to LED Array products: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE).

UL Recognition

Bridgelux secures UL Recognition for all the LED Array products. We continue to add arrays as they are recognized by UL. Please refer to the UL file E333389 for the latest list of UL Recognized Arrays. Bridgelux uses UL Recognized materials with suitable flammability ratings in the LED Array to streamline the process for customers to secure UL listing of the final luminaire product. Bridgelux recommends that luminaires are designed with a Class 2 Driver to facilitate the UL listing process.

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.

Cautionary Statements

CAUTION: CONTACT WITH OPTICAL AREA

Contact with the resin area should be avoided. Applying stress to the resin area can result in damage to the product.

CAUTION: EYE SAFETY

Eye safety classification for the use of Bridgelux LED Arrays is in accordance with IEC – EN62471 Photobiological Safety of Lamps and Lamp Systems specification. Bridgelux LED Arrays are classified as Risk Group 1 (Low Risk) when operated at or below the rated test current. Please use appropriate precautions. It is important that employees working with LEDs are trained to use them safely.

CAUTION: RISK OF BURN

Do not touch the LED Array or resin area during operation. Allow the LED Array to cool for a sufficient period of time before handling. The LED Array may reach elevated temperatures such that it can burn skin when touched.

Case Temperature Measurement Point

A case temperature measurement point location is included on the top surface of the Bridgelux LED Arrays. The location of this measurement point is indicated in the mechanical dimensions section of this data sheet.

The purpose of this measurement point is to allow the user access to a measurement point closely linked to the true case temperature on the back surface of the LED Array. Once the LED Array is installed, it is challenging to measure the back surface of the array, or true case temperature. Measuring the top surface of the product can lead to inaccurate results due to the poor thermal conductivity of the top layers of the array such as the solder mask and other materials.

Bridgelux has provided the case temperature measurement location in a manner which closely ties it to the true case temperature of the LED Array under steady state operation. Deviations between thermal measurements taken at the point indicated and the back of the LED Array differ by less than 1 °C, providing a robust method to testing thermal operation once the product is installed.

Preliminary

Quick Selection Guide

Table 1: Quick Selection Guide for ES Arrays

Base Part Number	CCT (Nominal)	CRI (min)	Typ Flux 25°C (lm)	Min Flux 25°C (lm)	Typ Flux 60°C (lm)	Current (mA)	Vf (Typ) (V)	Power (Typ) (W)	Efficacy (Typ at Tc 25°C) (lm/W)
BXRB-27E0540-A-00	2700	80	550	500	500	365	17.2	7.0	79
BXRB-30E0540-A-00	3000	80	600	540	540	365	17.2	7.0	86
BXRB-27G0540-A-00	2700	90	500	450	450	365	17.2	7.0	72
BXRB-30G0540-A-00	3000	90	540	490	490	365	17.2	7.0	77
BXRB-27E0740-A-00	2700	80	750	680	680	350	25.7	10.0	75
BXRB-30E0740-A-00	3000	80	820	740	740	350	25.7	10.0	82
BXRB-27G0740-A-00	2700	90	680	610	610	350	25.7	10.0	68
BXRB-30G0740-A-00	3000	90	740	670	670	350	25.7	10.0	74
BXRB-40E0810-A-00	4000	80	900	810	810	350	25.7	10.0	90
BXRB-56C0700-A-00	5600	70	780	700	700	365	17.2	7.0	112
BXRB-56C1000-A-00	5600	70	1070	960	960	350	25.7	10.0	107

Flux Characteristics

Table 2: Flux Characteristics

Color	Part Number	CRI (min)	Typ Luminous Flux (lm), T _c =60°C ^[3]	Min Luminous Flux (lm), T _j =25°C ^[1]	Typ Luminous Flux (lm), T _j =25°C	Max Luminous Flux (lm), T _j =25°C	Test Current (mA) ^[2]
Warm White	BXRB-27E0540-A-00	80	500	500	550	610	365
	BXRB-30E0540-A-00	80	540	540	600	660	365
	BXRB-27G0540-A-00	90	450	450	500	550	365
	BXRB-30G0540-A-00	90	490	490	540	600	365
	BXRB-27E0740-A-00	80	680	680	750	830	350
	BXRB-30E0740-A-00	80	740	740	820	900	350
	BXRB-27G0740-A-00	90	610	610	679	750	350
	BXRB-30G0740-A-00	90	670	670	740	810	350
Neutral White	BXRB-40E0810-A-00	80	810	810	900	1000	350
Cool White	BXRB-56C0700-A-00	70	700	700	780	860	365
	BXRB-56C1000-A-00	70	960	960	1070	1200	350

Notes for Table 1:

1. Bridgelux maintains a $\pm 7\%$ tolerance of flux measurements.
2. Parts are tested in pulsed conditions, T_j = 25°C. Pulse width is 10 ms at rated test current.
3. Typical performance when driven with direct current using Bridgelux test set-up. Please contact a Bridgelux sales representative for additional details.

Optical Characteristics

Table 3: Optical Characteristics

Color	Part Number	Color Temperature (CCT) ^{[1],[2],[3]}			Minimum Color Rendering Index ^[4]	Typical Viewing Angle (Degrees) $2\theta_{\frac{1}{2}}$ ^[6]	Typical Center Beam Candle Power ^[5] (cd)
		Min	Typ	Max			
Warm White	BXRB-27E0540-A-00	2580 K	2725 K	2870 K	80	120	195
	BXRB-30E0540-A-00	2870 K	3045 K	3220 K	80	120	210
	BXRB-27G0540-A-00	2580 K	2725 K	2870 K	90	120	175
	BXRB-30G0540-A-00	2870 K	3045 K	3220 K	90	120	190
	BXRB-27E0740-A-00	2580 K	2725 K	2870 K	80	120	265
	BXRB-30E0740-A-00	2870 K	3045 K	3220 K	80	120	285
	BXRB-27G0740-A-00	2580 K	2725 K	2870 K	90	120	240
	BXRB-30G0740-A-00	2870 K	3045 K	3220 K	90	120	260
Neutral White	BXRB-40E0810-A-00	3700K	4000K	4250K	80	120	320
Cool White	BXRB-56C0700-A-00	5310 K	5665 K	6020 K	70	120	275
	BXRB-56C1000-A-00	5310 K	5665 K	6020 K	70	120	380

Notes for Table 3:

1. Parts are tested in pulsed conditions, $T_j = 25^\circ\text{C}$. Pulse width is 10 ms at rated test current.
2. Refer to Flux Characteristic Table for test current data.
3. Product is binned for color in x y coordinates.
4. Higher CRI options available upon request.
5. Center beam candle power is a calculated value based on lambertian radiation pattern at nominal test current (365mA).
6. Viewing angle is the off axis angle from the centerline where I_v is $\frac{1}{2}$ of the peak value.

Electrical Characteristics

Table 4: Electrical Characteristics

Color	Base Part Number	Forward Voltage Vf (V) ^{[1],[2]}				Test Current (mA)	Typical Temperature Coefficient of Forward Voltage (mV/°C) $\Delta V_f/\Delta T_j$	Typical Thermal Resistance Junction to Case (°C/W) $R\theta_{j-c}$
		Turn On	Min	Typ	Max			
Warm White	BXRB-27E0540-A-00		17.2	19.1	21.0	365	-1 to -3	2.5
	BXRB-30E0540-A-00		17.2	19.1	21.0	365	-1 to -3	2.5
	BXRB-27G0540-A-00		17.2	19.1	21.0	365	-1 to -3	2.5
	BXRB-30G0540-A-00		17.2	19.1	21.0	365	-1 to -3	2.5
	BXRB-27E0740-A-00		25.7	28.6	31.5	350	-1 to -3	1.5
	BXRB-30E0740-A-00		25.7	28.6	31.5	350	-1 to -3	1.5
	BXRB-27G0740-A-00		25.7	28.6	31.5	350	-1 to -3	1.5
	BXRB-30G0740-A-00		25.7	28.6	31.5	350	-1 to -3	1.5
Neutral White	BXRB-40E0810-A-00		25.7	28.6	31.5	350	-1 to -3	1.5
Cool White	BXRB-56C0700-A-00		17.2	19.1	21.0	365	-1 to -3	2.5
	BXRB-56C1000-A-00		25.7	28.6	31.5	350	-1 to -3	1.5

Notes for Table 4:

1. Parts are tested in pulsed conditions, $T_j = 25^\circ\text{C}$. Pulse width is 10 ms at rated test current.
2. Bridgelux maintains a tester tolerance of ± 0.10 V on forward voltage measurements.

Absolute Minimum and Maximum Ratings

Table 5: Minimum and Maximum Current and Reverse Voltage Ratings

Part Number	Maximum DC Forward Current (mA)	Maximum Peak Pulsed Current (mA) ^[3]	Maximum Reverse Voltage (Vr) ^[1]
BXRB-27E0540-A-00	700	700	-30 Volts
BXRB-30E0540-A-00	700	700	-30 Volts
BXRB-27G0540-A-00	700	700	-30 Volts
BXRB-30G0540-A-00	700	700	-30 Volts
BXRB-27E0740-A-00	700	700	-45 Volts
BXRB-30E0740-A-00	700	700	-45 Volts
BXRB-27G0740-A-00	700	700	-45 Volts
BXRB-30G0740-A-00	700	700	-45 Volts
BXRB-40E0810-A-00	700	700	-45 Volts
BXRB-56C0700-A-00	700	700	-30 Volts
BXRB-56C1000-A-00	700	700	-45 Volts

Notes for Table 5:

1. Light emitting diodes are not designed to be driven in reverse voltage.
2. Bridgelux recommends a maximum duty cycle of 10% when operating LED Arrays at the maximum peak pulsed current specified.

Table 6: Maximum Ratings

Parameter	Maximum Rating
LED Junction Temperature	150 °C
Storage Temperature	-40 °C to +105 °C
Operating Case Temperature	105 °C
Soldering Temperature	3.5 seconds, 350 °C or lower

Typical Performance at Alternative Drive Currents

The Bridgelux LED Arrays are tested and binned against the specifications shown in Tables 2, 3 and 4. Customers also have options to drive the LED Arrays at alternative drive currents dependent on the specific application. The typical performance at any drive current can be derived from the flux vs. current characteristics shown in Figure 6 and 7 and from the current vs. voltage characteristics shown in Figures 10-11. The typical performance at common drive currents is also summarized in Table 7.

Table 7: Typical Product Performance at Alternative Drive Currents

Color	Part Number	Typical Luminous Flux ϕ_v (lm), $T_{case}=60^{\circ}C$	Typical Luminous Flux ϕ_v (lm), $T_j=25^{\circ}C$	Typical Forward Voltage V_f (V)	Forward Current (mA) ^[2]
Warm White	BXR-27E0540-A-00	370	405	18.3	250
		480	535	19.0	350
		495	550	19.1	365 ^[1]
		645	720	20.0	500
	BXR-30E0540-A-00	400	440	18.3	250
		520	580	19.0	350
		540	600	19.1	365 ^[1]
		700	780	20.0	500
	BXR-27G0540-A-00	330	365	18.3	250
		430	480	19.0	350
		445	495	19.1	365 ^[1]
		580	645	20.0	500
	BXR-30G0540-A-00	360	395	18.3	250
		470	520	19.0	350
		485	540	19.1	365 ^[1]
		630	700	20.0	500
	BXR-27E0740-A-00	505	565	27.5	250
		680	755	28.5	350 ^[1]
		900	1005	30	500
	BXR-30E0740-A-00	550	615	27.5	250
		740	820	28.5	350 ^[1]
		980	1090	30	500
	BXR-27G0740-A-00	455	510	27.5	250
		615	680	28.5	350 ^[1]
810		905	30	500	
BXR-30G0740-A-00	495	555	27.5	250	
	665	740	28.5	350 ^[1]	
	880	980	30	500	

Table 8: Typical Product Performance at Alternative Drive Currents

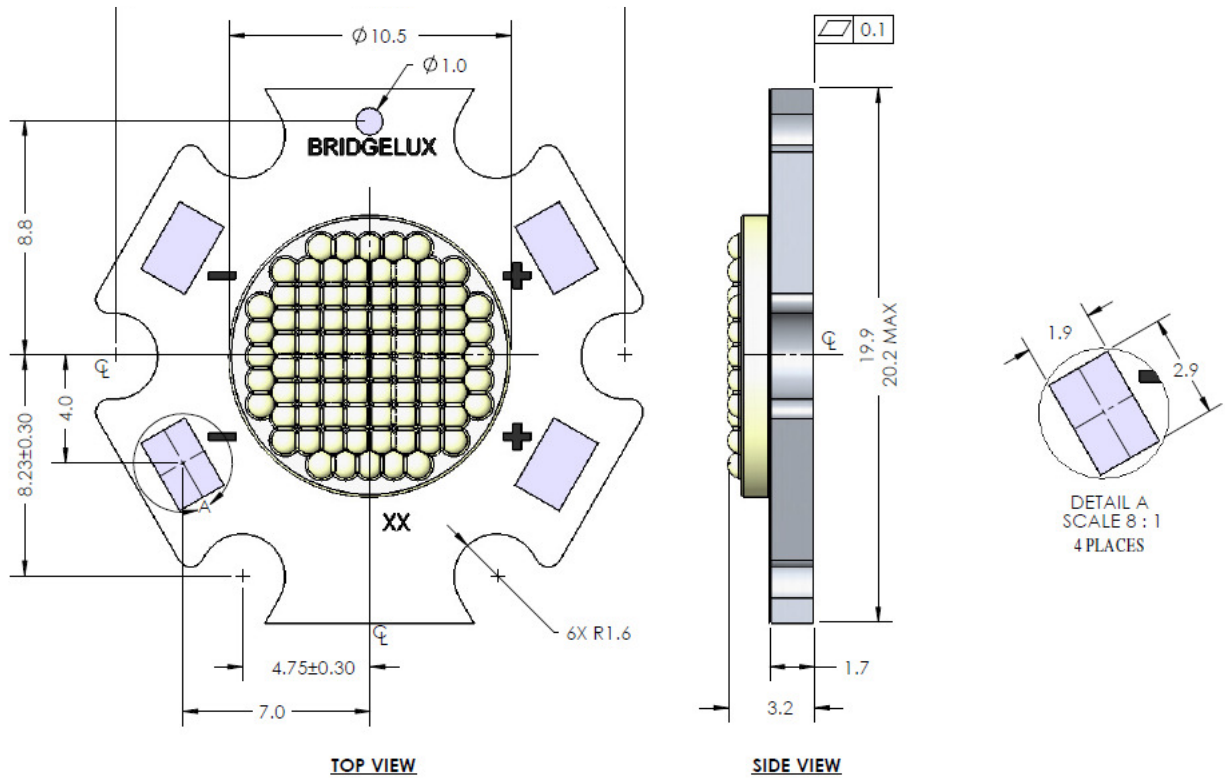
Color	Part Number	Typical Luminous Flux ϕ_v (lm), $T_{case}=60^\circ\text{C}$	Typical Luminous Flux ϕ_v (lm), $T_j=25^\circ\text{C}$	Typical Forward Voltage V_f (V)	Forward Current (mA) ^[2]
Neutral White	BXR-40E0810-A-00	610	675	27.5	250
		810	900	28.5	350 ^[1]
		1080	1200	30.0	500
Cool White	BXR-56C0700-A-00	510	565	18.3	250
		680	750	19.0	350
		700	780	19.1	365 ^[1]
		900	1000	20.0	500
	BXR-56C1000-A-00	720	800	27.5	250
		960	1070	28.5	350 ^[1]
		1290	1430	30.0	500

Notes for Table 7 and 8:

1. Product is tested and binned at the specified drive current.
2. Operating these LED Arrays at or below the drive currents listed in Table 6 and 7, with a case temperature maintained at or below 70°C, will enable the average lumen maintenance projection outlined earlier in this Product Data Sheet.

Mechanical Dimensions

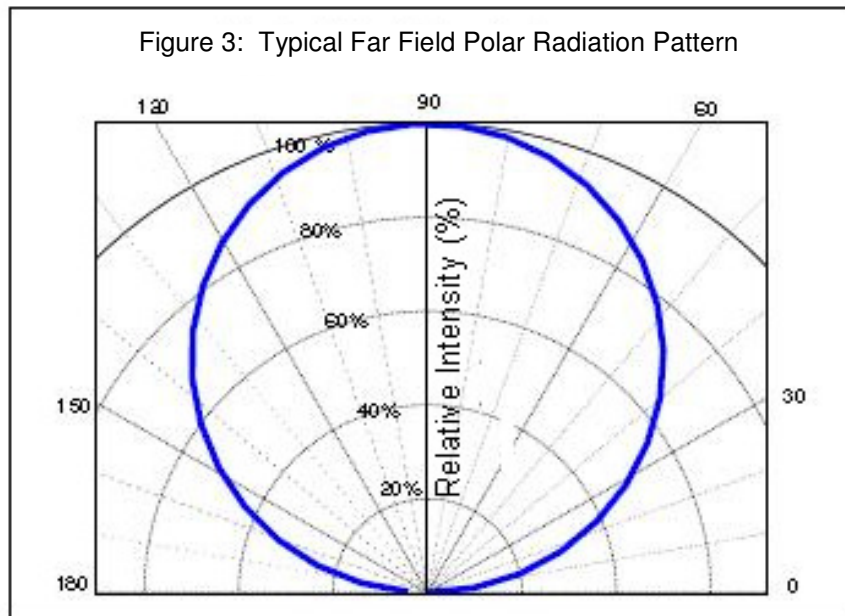
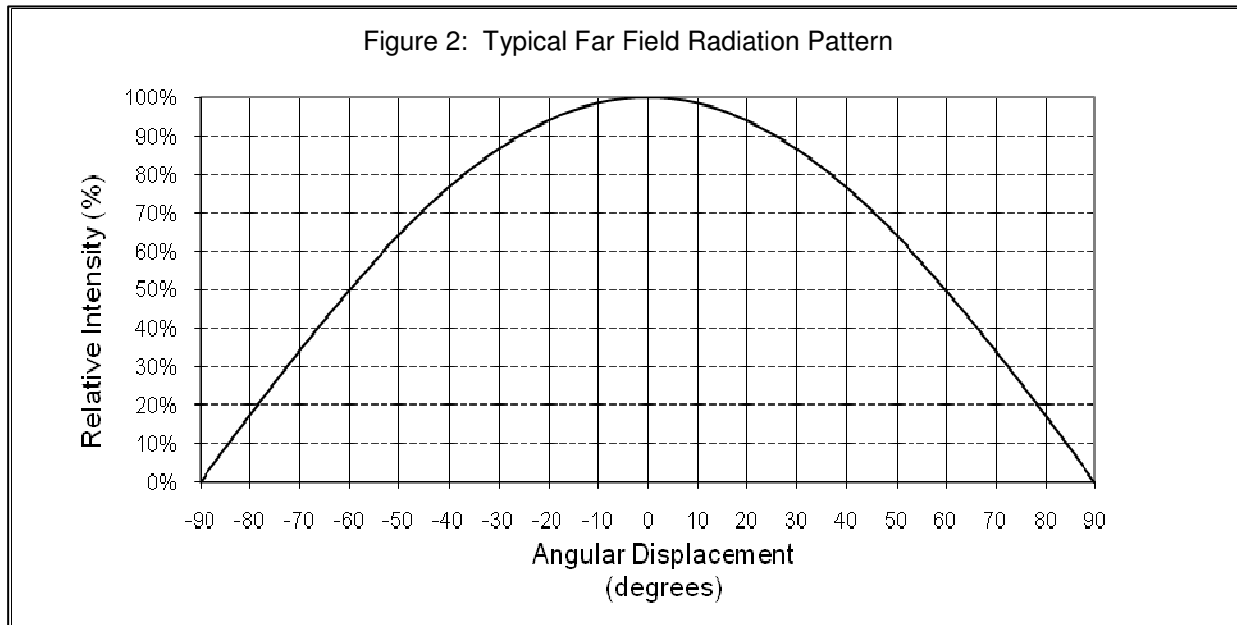
Figure 1: Drawing for all ES BXR array.



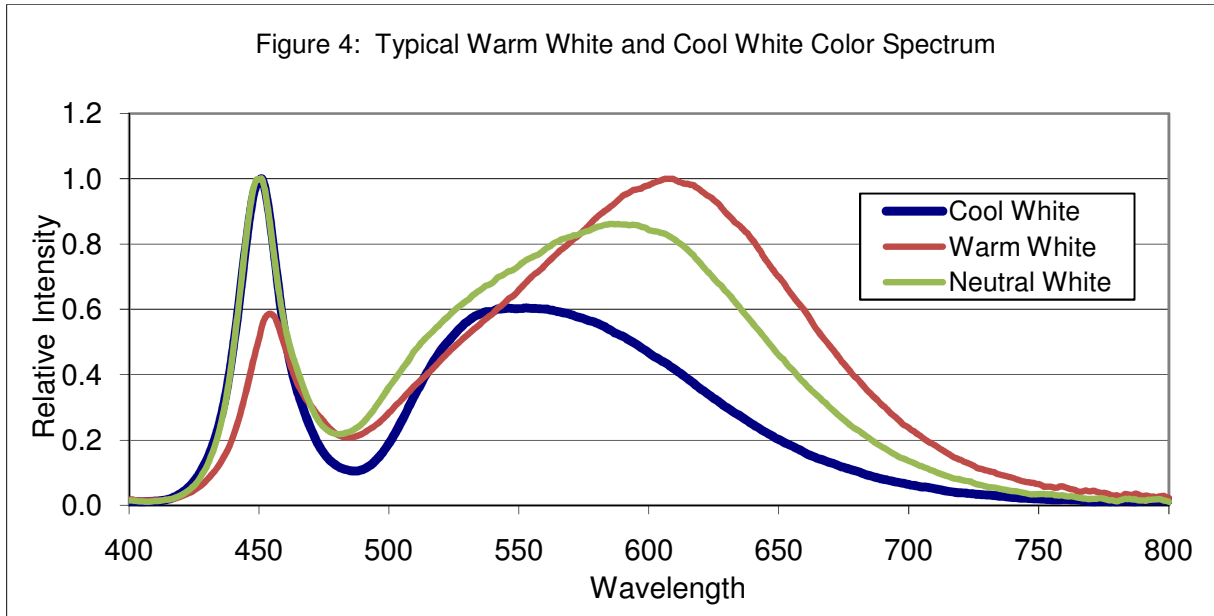
Notes for Figure 1:

1. Slots are for M2.5 or #4 screws.
2. Solder pads are labeled "+" and "-" to denote positive and negative, respectively.
3. Drawings are not to scale.
4. Drawing dimensions are in millimeters.
5. Unless otherwise specified, tolerances are ± 0.20 mm.
6. Refer to product Application Notes AN10 and AN11 for product handling, mounting and heat sink recommendations.
7. The optical center of the LED Array is defined by the mechanical center of the array.

Typical Radiation Pattern

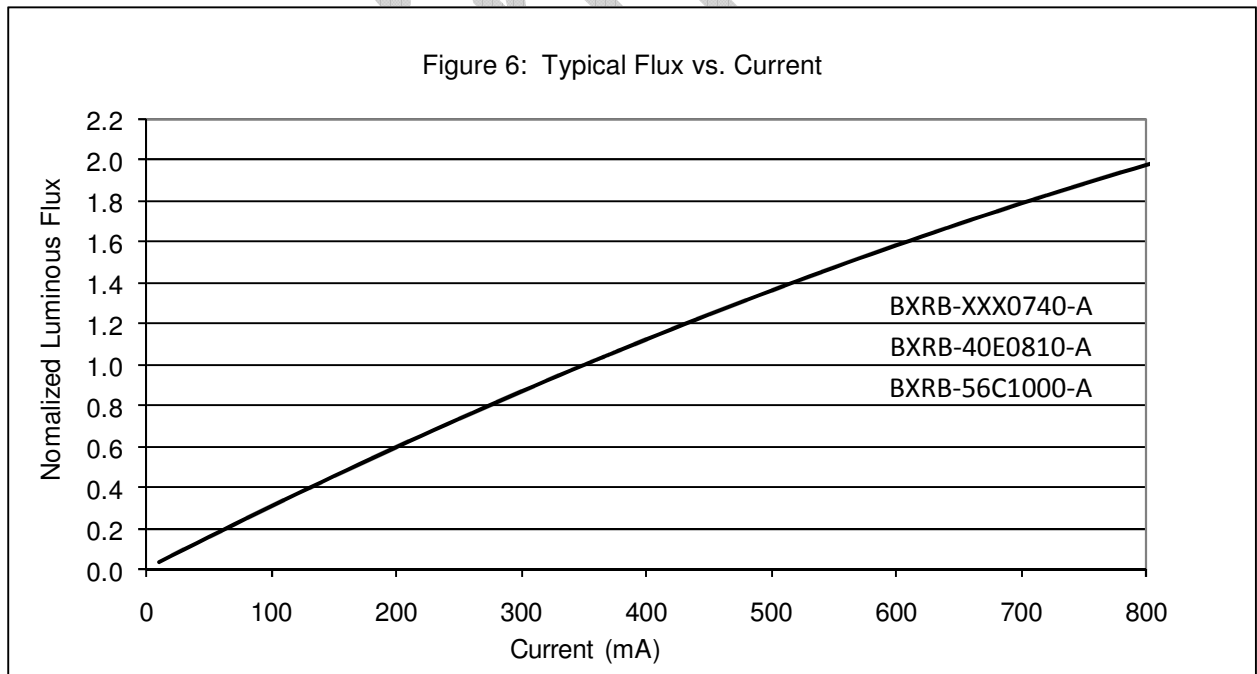
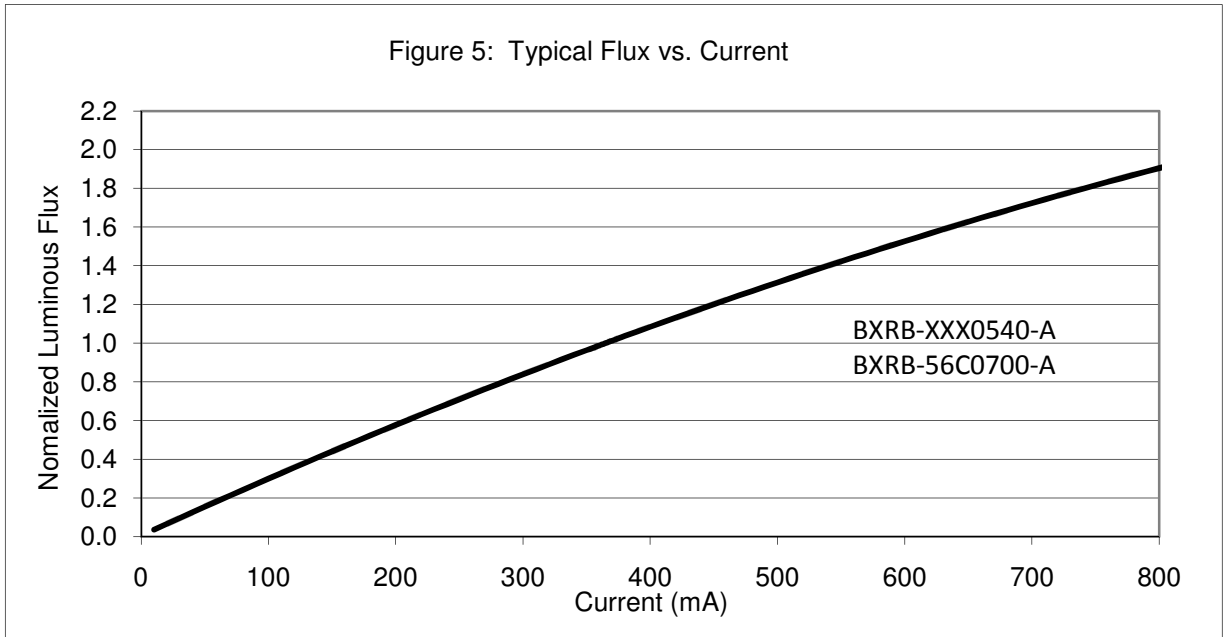


Wavelength Characteristics at Rated Test Current, $T_j=25^\circ\text{C}$

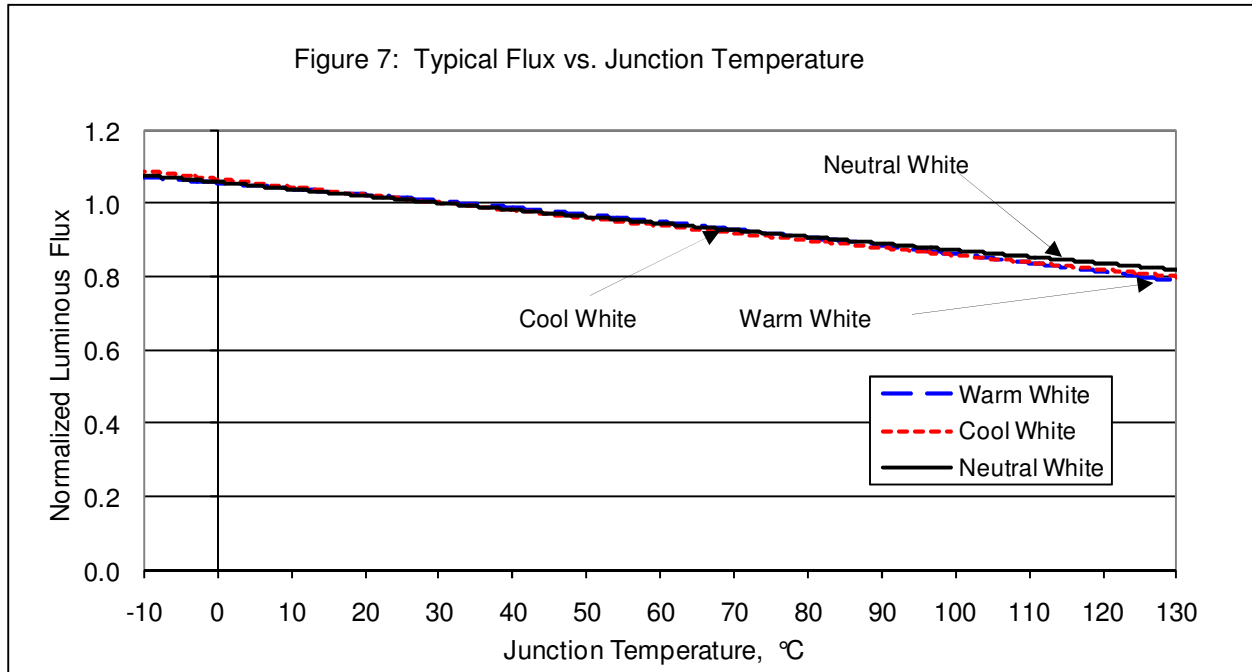


Preliminary

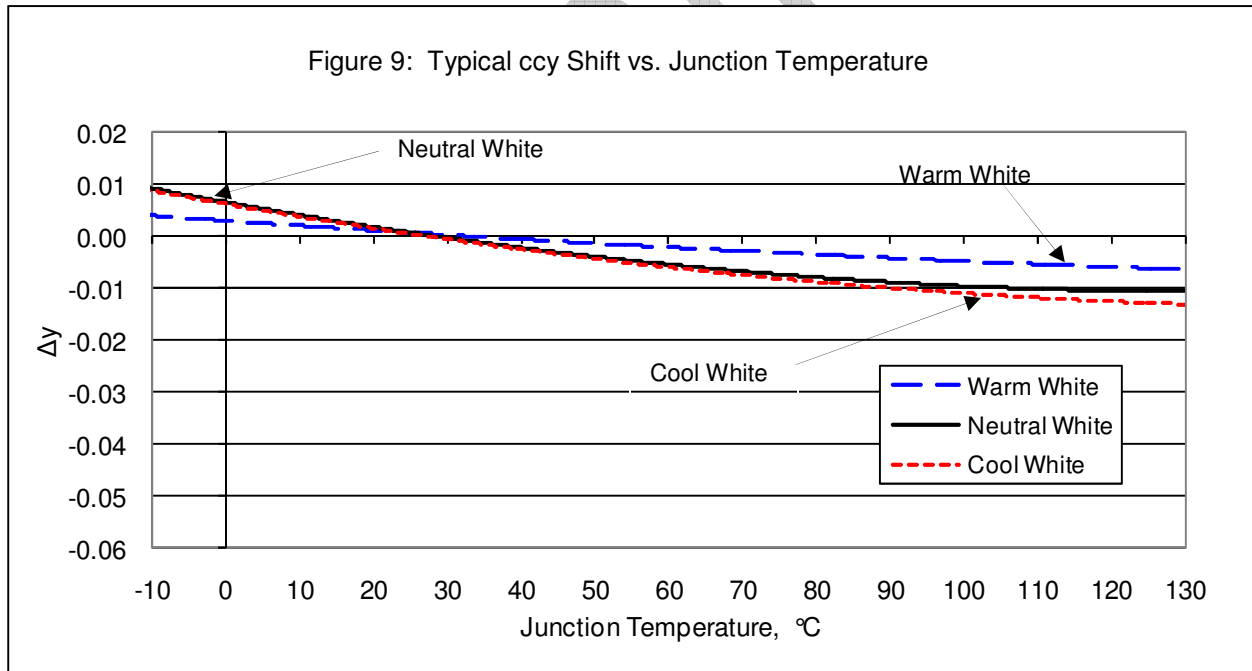
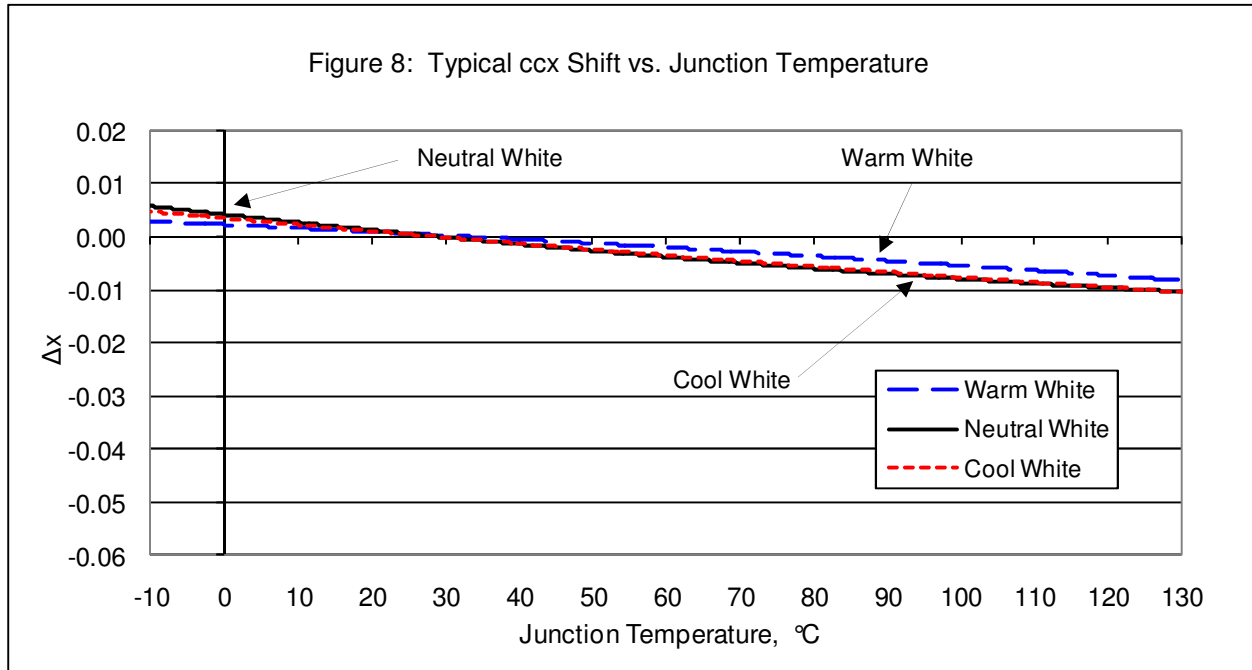
Typical Relative Luminous Flux vs. Current, T_j=25 °C



Typical Light Output Characteristics vs. Temperature



Typical Chromaticity Characteristics vs. Temperature



Typical Forward Current Characteristics at $T_j = 25^\circ\text{C}$

Figure 10: Typical Current vs. Voltage, BXR-XXX0540-A, BXR-56C0700-A

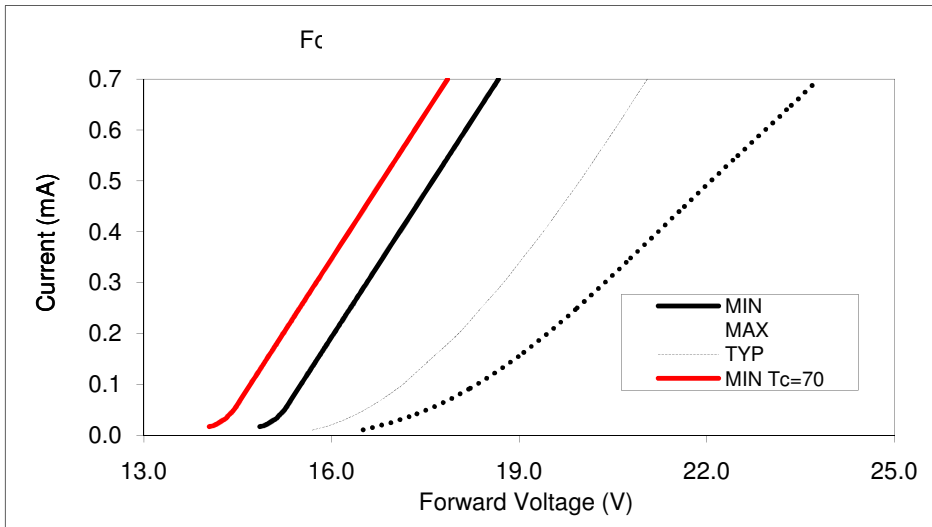
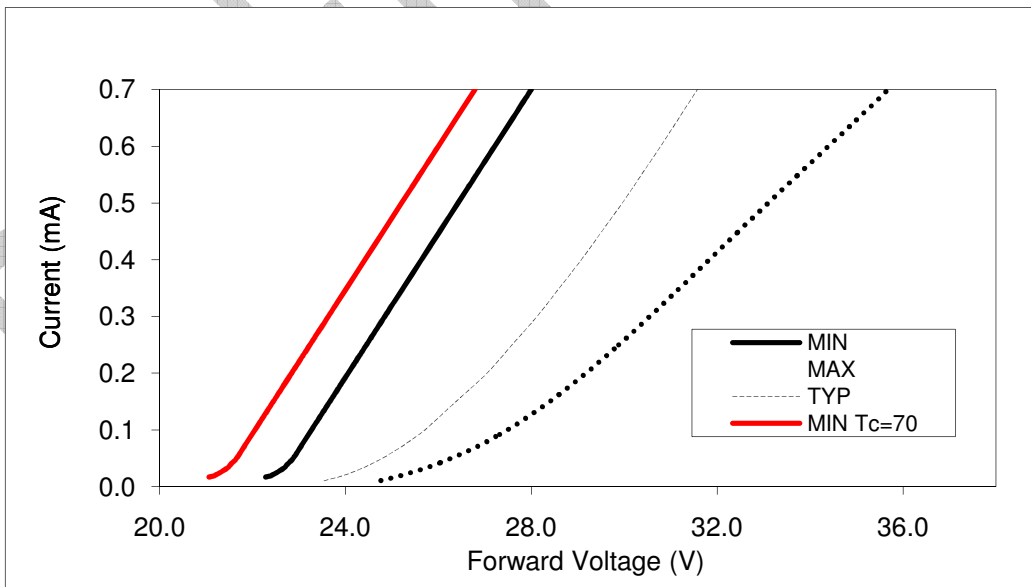


Figure 11: Typical Current vs. Voltage BXR-XXX0740-A, BXR-40E0810-A, BXRA-56C1000



Product Binning

Typical manufacturing processes of semiconductor products result in a variation in performance surrounding the typical data sheet values. In order to minimize variation in the end product or application, Bridgelux bins its LED Arrays for color.

Bridgelux LED Arrays are labeled using a 2-digit alphanumeric bin code. This bin code is printed on the back of each LED Array in the following format:

A B

Where:

A B – designates color bin (P3, P4, Q3, etc.)

All product packaged within a single tube are of the same color bin combination (or bin code). Using these codes it is possible to determine the best product utilization to deliver the consistency required in a given application.

Color Binning Information

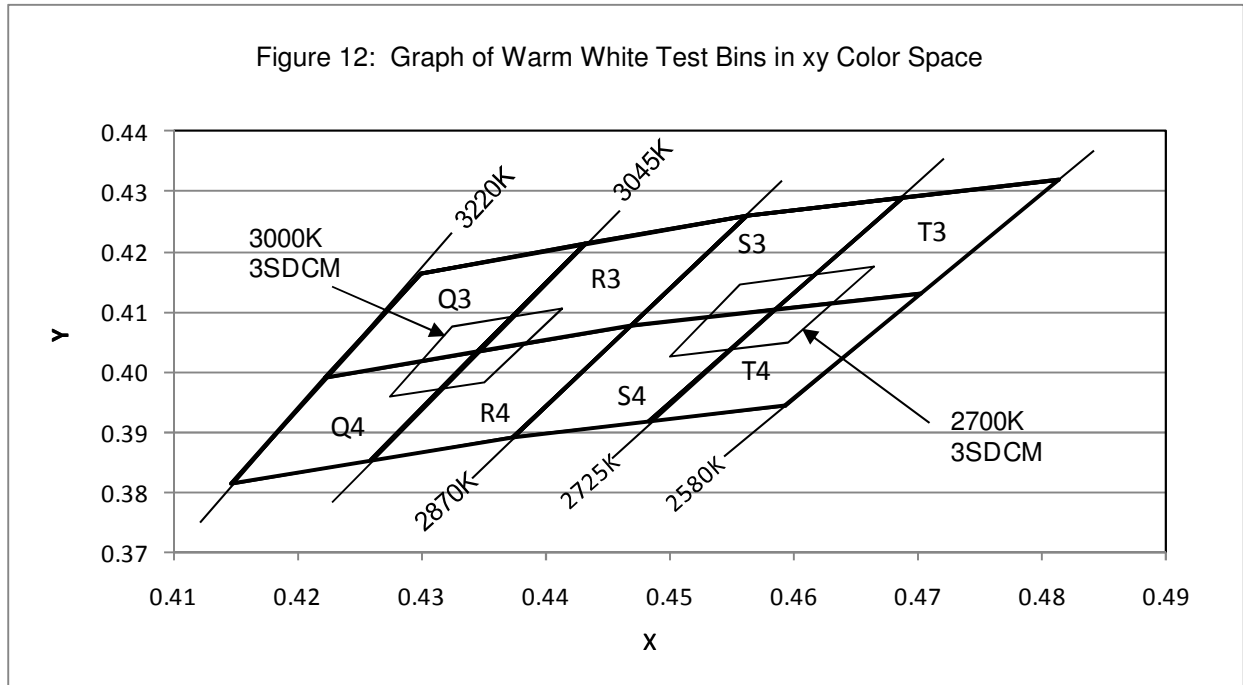


Table 9: Warm White xy Bin Coordinates and Associated Typical CCT

Bin Code	X	Y	ANSI CCT (K)	Bin Code	X	Y	ANSI CCT (K)
Q3	0.4223	0.3990	3000	S3	0.4468	0.4077	2700
	0.4299	0.4165			0.4562	0.4260	
	0.4431	0.4213			0.4688	0.4290	
	0.4345	0.4033			0.4585	0.4104	
Q4	0.4147	0.3814	3000	S4	0.4373	0.3893	2700
	0.4223	0.3990			0.4468	0.4077	
	0.4345	0.4033			0.4585	0.4104	
	0.4260	0.3854			0.4483	0.3919	
R3	0.4345	0.4033	3000	T4	0.4585	0.4104	2700
	0.4431	0.4213			0.4688	0.4290	
	0.4562	0.4260			0.4813	0.4319	
	0.4468	0.4077			0.4703	0.4132	
R4	0.4260	0.3854	3000	T3	0.4483	0.3919	2700
	0.4345	0.4033			0.4585	0.4104	
	0.4468	0.4077			0.4703	0.4132	
	0.4373	0.3893			0.4593	0.3944	
3SDCM	0.4413	0.4107	3000	3SDCM	0.4665	0.4175	2700
	0.4325	0.4075			0.4557	0.4145	
	0.4274	0.3958			0.4500	0.4026	
	0.4350	0.3984			0.4595	0.4050	

Color Binning Information (continued)

Figure 13: Graph of Neutral White Test Bins in xy Color Space

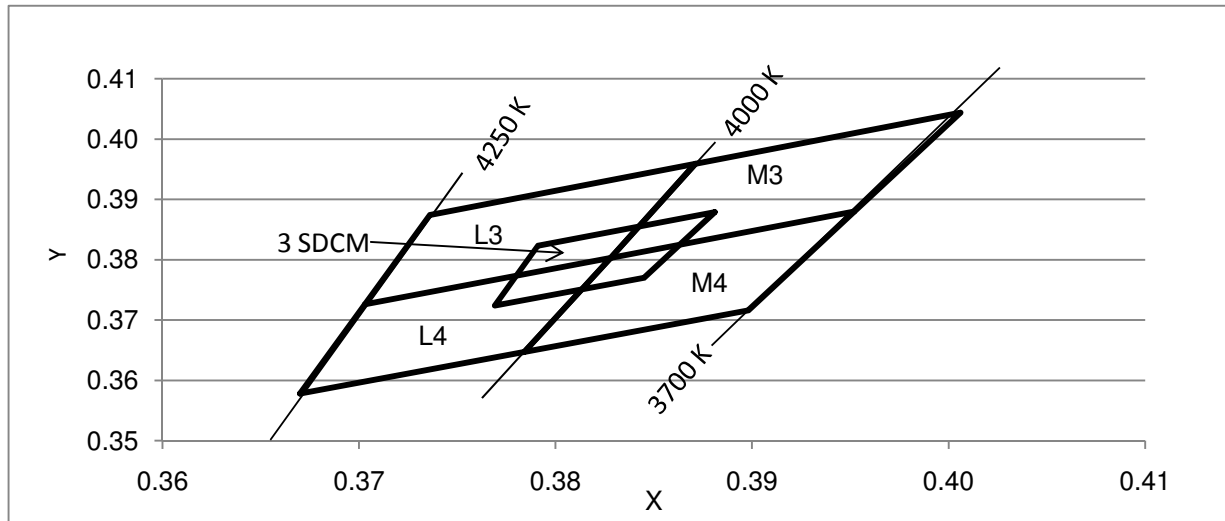


Table 10: Neutral White xy Bin Coordinates and Associated Typical CCT

Bin Code	X	Y	ANSI CCT (K)
L3	0.3703	0.3726	4000
	0.3736	0.3874	
	0.3871	0.3959	
	0.3828	0.3803	
L4	0.3670	0.3578	4000
	0.3703	0.3726	
	0.3828	0.3803	
	0.3784	0.3647	
M3	0.3828	0.3803	4000
	0.3871	0.3959	
	0.4006	0.4044	
	0.3952	0.3880	
M4	0.3784	0.3647	4000
	0.3828	0.3803	
	0.3952	0.3880	
	0.3898	0.3716	
3SDCM	0.3881	0.3879	4000
	0.3791	0.3823	
	0.3769	0.3724	
	0.3845	0.3770	

Color Binning Information (continued)

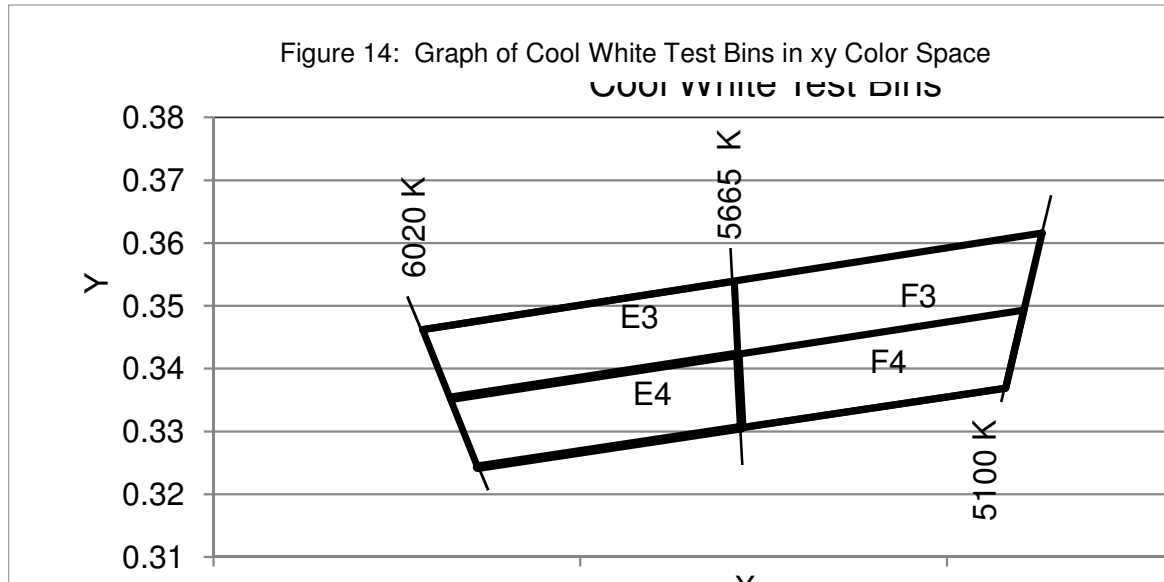


Table 11: Cool White xy Bin Coordinates and Associated Typical CCT

Bin Code	X	Y	ANSI CCT (K)
E4	0.3222	0.3243	5700
	0.3294	0.3306	
	0.3293	0.3423	
	0.3215	0.3353	
E3	0.3215	0.3353	5700
	0.3293	0.3423	
	0.3292	0.3539	
F3	0.3207	0.3462	5700
	0.3292	0.3539	
	0.3293	0.3423	
	0.3371	0.3493	
F4	0.3376	0.3616	5700
	0.3294	0.3306	
	0.3366	0.3369	
	0.3293	0.3423	

Design Resources

Bridgelux has developed a comprehensive set of application notes and design resources to assist customers in successfully designing with Bridgelux LED Array products. Included below is a list of available resources which can be downloaded from the Bridgelux web site under the Design Resources section. These documents are updated regularly as new information becomes available, including complimentary infrastructure products such as commercially available secondary optics and electronic driver solutions.

Application Notes

- AN10: Effective Thermal Management of Bridgelux LED Arrays
- AN11: Assembly Considerations for Bridgelux LED Arrays
- AN12: Electrical Drive Considerations for Bridgelux LED Arrays
- AN14: Reliability Data Sheet for Bridgelux LED Arrays
- AN15: Reflow Soldering of Bridgelux LED Arrays
- AN16: Optical Considerations for Bridgelux LED Arrays
- DS19: Bridgelux LED Array Data Sheet for Packing and Labeling

Optical Source Models

Optical source models and ray set files are available for all Bridgelux LED Array products, and can be downloaded directly from the Bridgelux web site. The list below contains the formats currently available. If you require a specific format not included in this list, please contact your Bridgelux sales representative for assistance.

- Zemax
- ASAP
- IESNA
- LightTools
- LucidShape
- OPTIS SPEOS
- PHOTOPIA
- TracePro
- Radiant Imaging Source Model

3D CAD Models

Three dimensional CAD models depicting the product outline of all Bridgelux LED Arrays are available in both SAT and STEP formats. These CAD files can be downloaded directly from the Bridgelux web site.

About Bridgelux

Bridgelux LED Arrays are developed, manufactured and marketed by Bridgelux, Inc. Bridgelux is a U.S. lighting company and leading developer of technologies and solutions that will transform the \$40 billion global lighting industry into a \$100 billion market opportunity. Based in Silicon Valley, Bridgelux is a pioneer in solid-state lighting (SSL), expanding the market for solid state lighting by driving down the cost of light through innovation. Bridgelux's patented light source technology replaces traditional lighting technologies (such as incandescent, halogen and fluorescent lamps) with integrated, solid-state solutions, enabling lamp and luminaire manufacturers to develop high performance and energy-efficient white light products. The plug and play simplicity of the Bridgelux LED Arrays enable our customers to address the rapidly growing interior and exterior solid state lighting markets, including street lights, retail lighting, commercial lighting and consumer applications. With more than 250 patent applications filed or granted worldwide, Bridgelux is the only vertically integrated LED manufacturer that designs its solutions specifically for the lighting industry.

For more information about the company, please visit www.bridgelux.com

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