



Bridgelux[®] Gen 7 Vero SE 18 Thrive[™] Array

Product Data Sheet DS347



BXRC-27S 30S 35S 40S 50S 57S 65S

Vero SE Thrive



Introduction

Bridgelux Thrive[™] combines unique chip, phosphor and packaging technology to closely match the spectra of natural light over the visible wavelength range. Thrive can be used in constant color point luminaires to bring full spectrum natural light indoors or in tunable white luminaires to incorporate circadian elements that may impact human well-being. The high fidelity spectral output of Thrive creates stunning environments with excellent color rendering and outstanding TM30 metrics. Thrive is available in both SMD components and LED arrays to enable a broad range of lighting applications including retail, hospitality, office, education, architectural, museums, healthcare and residential lighting.

Features

- Engineered spectrum to closely match natural light
- CRI >95, R1-R15 >90, high Rf and Rg values
- High efficacy full spectrum solution
- No violet chip augmentation
- Hot color targeted
- Form factor consistent with existing Bridgelux COB
 arrays
- Broad product platform availability (SMDs and COBs)

Benefits

- Full consistent spectrum with fewer spectral spikes
- Natural and vivid color rendering
- Greater energy savings, lower utility costs
- Economical, high efficiency solution
- Uniform and consistent white light at application conditions
- Ease of design and rapid go-to-market
- Enables greater design flexibility and platform color consistency

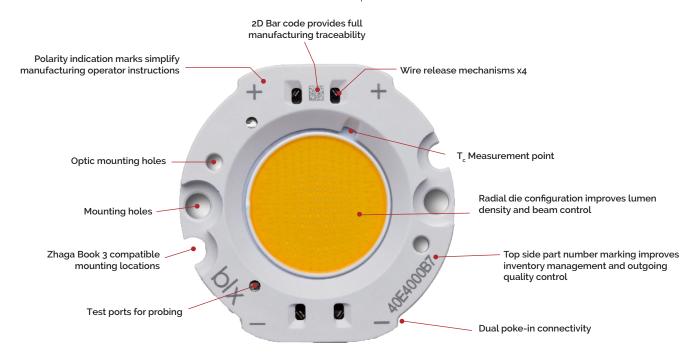


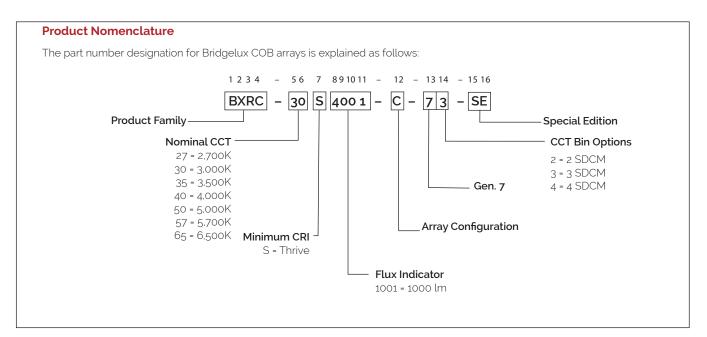
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Product Feature Map

Vero SE 18 is the second largest form factor in the product family of next generation solid state light sources. In addition to delivering the performance and light quality required for many lighting applications. Vero SE incorporates several features to simplify the design integration and manufacturing process, accelerate time to market and reduce system costs. Please visit www. bridgelux.com for more information on the Vero SE family of products.





Product Selection Guide

The following product configurations are available:

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

Part Number ^{1.6}	Nominal CCT ¹ (K)	CRI²	Nominal Drive Current ³ (mA)	Typical V _f (V)	Typical Pulsed Flux ^{4.5.6.7} T _c = 25°C (lm)	Minimum Pulsed Flux ^{6,7,8} T _c = 25°C (lm)	Typical Power (W)	Typical Efficacy (lm/W)	Typical Photosynthetic Photon Flux (PPF)	Typical Photon Efficiency (µmol/J)
BXRC-27S4001-C-7x-SE	2700	95	1170	34.4	4226	3719	40.2	105	75.85	2.07
BXRC-30S4001-C-7x-SE	3000	95	1170	34.4	4508	3967	40.2	112	79.77	2.16
BXRC-35S4001-C-7x-SE	3500	95	1170	34.4	5009	4408	40.2	125	80.93	2.17
BXRC-40S4001-C-7x-SE	4000	95	1170	34.4	5231	4603	40.2	130	80.88	2.15
BXRC-50S4001-C-7x-SE	5000	95	1170	34.4	5461	4806	40.2	136	85.76	2.26
BXRC-57S4001-C-7x-SE	5700	95	1170	34.4	5508	4847	40.2	137	87.34	2.29
BXRC-65S4001-C-7x-SE	6500	95	1170	34.4	5368	4724	40.2	134	85.58	2.23

Table 2: Selection Guide, Stabilized DC Test Performance (T_= 85°C)^{45.6}

Part Number ¹⁶	Nominal CCT¹ (K)	CRI²	Nominal Drive Current ³ (mA)	Typical V _f (V)	Typical DC Flux ^{4.5.6.7} T _c = 85°C (lm)	Mini- mum DC Flux ^{6,7,8,9} T _c = 85°C (lm)	Typical Power (W)	Typical Efficacy (lm/W)	Typical Photosynthetic Photon Flux (PPF)	Typical Photon Efficiency (µmol/J)
BXRC-27S4001-C-7x-SE	2700	95	1170	33.7	3846	3384	39.4	98	69.03	1.92
BXRC-30S4001-C-7x-SE	3000	95	1170	33.7	4102	3610	39.4	104	72.59	2.00
BXRC-35S4001-C-7x-SE	3500	95	1170	33.7	4558	4011	39.4	116	73.64	2.02
BXRC-40S4001-C-7x-SE	4000	95	1170	33.7	4760	4189	39.4	121	73.58	2.00
BXRC-50S4001-C-7x-SE	5000	95	1170	33.7	4970	4373	39.4	126	78.04	2.10
BXRC-57S4001-C-7x-SE	5700	95	1170	33.7	5012	4411	39.4	127	79.48	2.12
BXRC-65S4001-C-7x-SE	6500	95	1170	33.7	4885	4299	39.4	124	77.88	2.07

Notes for Table 1 & 2:

Product CCT is hot targeted at T₁= 85°C. Nominal CCT as defined by ANSI C78 377-2011.
 All CRI values are measured at T₁ = 25°C. CRI values are minimums. Bridgelux maintains a ± 3 tolerance on CRI values.
 Drive current is referred to as nominal drive current.

Drive current is refered to as infinited for current with a nominal test current where T₁ (junction temperature) = T_c (case temperature) = 25°C. Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.
 Typical performance values are provided as a 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 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.
 Bridgelux mainting a ±7°C teleprane on the product is subjected.

Bridgelux maintains a ±7% tolerance on flux measurements.
 Minimum flux values at the nominal test current are guaranteed by 100% test.
 Minimum flux values at elevated temperatures are provided for reference only and are not guaranteed by 100% production testing. Based on Bridgelux test setup, values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.

European Product Registry for Energy Labeling

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

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

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

PART NUMBER ¹	сст (К)	CRI	Current² (mA)	Vf (V)	Useful flux ³ (Φuse) at 85C (lm)	Pow- er (W)	Efficacy (lm/W)	Energy efficiency class ⁴	Regis- tration No	URL to Product Information Sheet in EPREL Database
BXRC-27S4001-C-73-SE	2700	97	970	32.0	2382	31.1	77	G	872678	https://eprel.ec.europa.eu/qr/872678
BXRC-30S4001-C-73-SE	3000	97	1360	33.0	3503	44.9	78	F	879040	https://eprel.ec.europa.eu/qr/879040
BXRC-40S4001-C-73-SE	4000	97	1740	33.9	4649	58.9	79	F	879042	https://eprel.ec.europa.eu/qr/879042

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

Notes for Table 3:

1. All device listed here must be disposed as e-waste upon its end of life according to local country guideline in each country.

- 2. For information on performance values at alternative drive conditions. please refer to the Product Selection Guide, Absolute Maximum Rating Table and Performance Curves in this data sheet.
- 3. For a definition of useful luminous flux (ouse), please see the ELR regulations at https://tinyurl.com/4b6zvt4m.
- 4. EPREL requires an arrow symbol containing the letter of the energy efficiency class to be displayed. on technical promotional material. Refer to this energy efficiency class column for specific energy efficiency class on each part number.

Performance at Commonly Used Drive Currents

Vero SE Thrive LED arrays are tested to the specifications shown using the nominal drive currents in Table 1. Vero SE Thrive 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 Figure 11 and the flux vs. current characteristics shown in Figure 12. The performance at commonly used drive currents is summarized in Table 4.

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 Flux ³ T _c = 85°C (lm)	Typical Efficacy Tू = 25°C (lm/W)
		585	33.2	18.8	2196	2024	117
		780	33.6	26.2	2889	2655	110
BXRC-27S4001-C-73-SE	95	1170	34.4	40.2	4226	3846	105
		1755	35.6	61.8	6095	5470	99
		2340	36.6	83.5	7876	5971	94
		585	33.2	18.8	2343	2159	125
		780	33.6	26.2	3082	2832	118
BXRC-30S4001-C-73-SE	95	1170	34.4	40.2	4508	4102	112
		1755	35.6	61.8	6501	5835	105
		2340	36.6	83.5	8401	6369	101
		585	33.2	18.8	2603	2399	138
		780	33.6	26.2	3425	3147	131
BXRC-35S4001-C-73-SE	95	1170	34.4	40.2	5009	4558	125
		1755	35.6	61.8	7224	6484	117
		2340	36.6	83.5	9335	7077	112
		585	33.2	18.8	2718	2505	145
		780	33.6	26.2	3576	3286	136
BXRC-40S4001-C-73-SE	95	1170	34.4	40.2	5231	4760	130
		1755	35.6	61.8	7543	6770	122
		2340	36.6	83.5	9748	7390	117
		585	33.2	18.8	2838	2616	151
		780	33.6	26.2	3734	3431	143
BXRC-50S4001-C-73-SE	95	1170	34.4	40.2	5461	4970	136
		1755	35.6	61.8	7876	7069	127
		2340	36.6	83.5	10178	7716	122
		585	33.2	18.8	2862	2638	152
		780	33.6	26.2	3766	3460	144
BXRC-57S4001-C-73-SE	95	1170	34.4	40.2	5508	5012	137
-		1755	35.6	61.8	7943	7129	129
		2340	36.6	83.5	10265	7782	123
		585	33.2	18.8	2790	2571	148
		780	33.6	26.2	3670	3372	140
BXRC-65S4001-C-73-SE	95	1170	34.4	40.2	5368	4885	134
	_	1755	35.6	61.8	7742	6948	125
		2340	36.6	83.5	10004	7584	120

Table 4: Product Performance at Commonly Used Drive Currents

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.

Spectrum Characteristics

Nominal CCT ¹	R _f	R _g	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
2700K	95	103	97	99	94	94	97	98	97	98	99	97	91	98	98	95	98
3000K	95	104	98	99	93	94	97	98	96	96	97	96	92	95	98	95	97
3500K	95	98	98	98	97	98	98	98	98	97	93	97	97	95	98	97	98
4000K	97	100	99	99	97	99	99	99	99	98	94	97	99	96	99	98	98
5000K	97	100	98	99	98	98	98	98	99	98	95	98	98	98	98	98	97
5700K	94	98	98	98	97	95	98	97	96	95	92	97	96	96	98	98	97
6500K	95	98	98	98	97	96	98	98	96	96	93	97	96	97	98	98	97

Table 5: Typical Color Rendering Index and TM-30 Values at, T_=85°C

Note for Table 5:

1. Bridgelux maintains a tolerance of ± 3 on Color Rendering Index R1-R15 measurements and TM-30 measurements.

2. The data shown in the table above is for reference only. Specific values from R1 to R15 will vary for each production run.



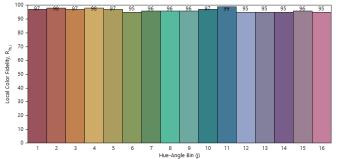
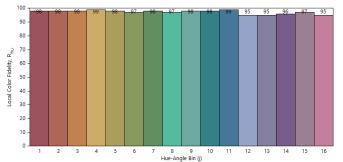
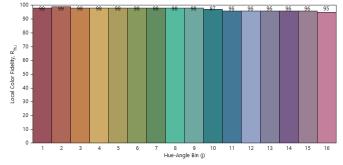
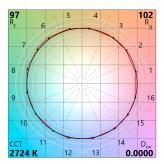


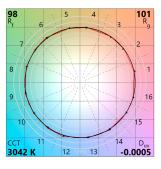
Figure 2: 3000K Thrive TM-30 Graphs

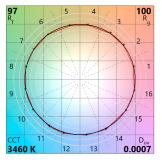










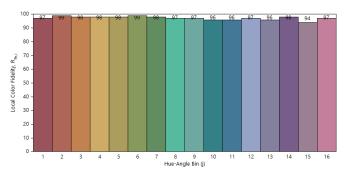


Spectrum Characteristics

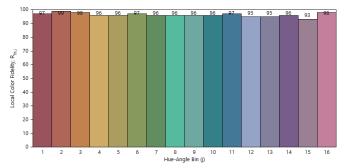
90 80 Local Color Fidelity, R_{fh,i} 70 60 50 -40 30 20 10 0 -2 3 4 5 6 7 8 9 Hue-Angle Bin (j) 10 11 12 13 14 15 16 1

Figure 4: 4000K Thrive TM-30 Graphs

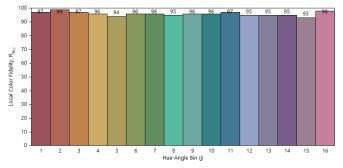


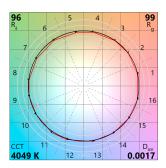


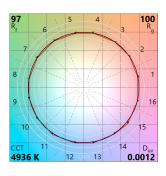


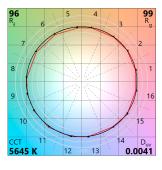


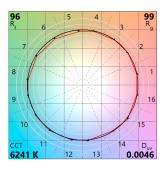












Spectrum Characteristics

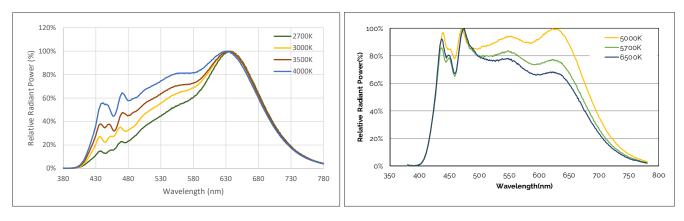


Figure 8: Typical Color Spectrum

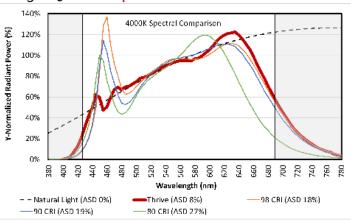
Note for Figure 8:

1. Color spectra measured at nominal current for T_i = 85°C.

,	c Q
Nominal CCT ¹	ASD
2700K	10%
3000K	9%
3500K	8%
4000K	8%
5000K	9%
5700K	9%
6500K	8%

Table 6: Typical ASD Values at T_a = 85°C.

Figure 9: SPD Comparison



Spectral Matching to Natural Light

The lighting market is in the early stages of adoption of human-centric lighting (HCL). HCL encompasses the effects of lighting on the physical and emotional health and well-being of people. Throughout evolution, the human visual system has evolved under the natural light of sun and fire. These light sources have standardized industry spectral power definitions that describe the state of natural light. However, conventional metrics such as CCT, CRI, and TM-30 fail to adequately quantify the naturalness, or closeness of these light sources to the standardized natural spectra. Due to a lack of an industry standard metric to quantitatively measure the naturalness of a light source. Bridgelux has pioneered a new metric that takes the guesswork out of comparing LED light sources to natural light.

Average Spectral Difference, or ASD, is calculated by measuring the absolute difference between two spectra at discrete wavelengths. These values are averaged across a wavelength range derived from the photopic response curve, or V(); a luminous efficiency function describing the average spectral sensitivity of human perception of brightness. The range of 425nm to 690nm was selected to remove the tails of the V() gaussian distribution below 1% of the peak value at 555nm, covering 99.9% of the area under the photopic response curve. Natural light is defined following the approach of IES TM-30; black body curves for light sources of ≤4000K and the CIE standard illuminant D for light sources of ≥ 5000K.

Natural light has an ASD of 0%; lower ASD values indicate a closer match to natural light. Thrive is engineered to provide the closest match to natural light available using proprietary chip, phosphor and packaging technology, resulting in an ASD between 8% to 10% for all CCTs. By comparison, standard 80, 90, and 98 CRI light sources have ASD values that are 100% to 300% larger than Thrive. To learn more about the ASD metric, please contact your Bridgelux sales representative.

Electrical Characteristics

Table 7: Electrical Characteristics

			orward Voltag ed, T _c = 25°C (V		Typical Coefficient	Typical Thermal	Driver Selection Voltages ⁷ (V)	
Part Number	Drive Current (mA)	Minimum	Typical	Maximum	of Forward Voltage⁴ ∆Vr∕∆Tc (mV∕°C)	Resistance Junction to Case ^{5.6} R _{j-c} (°C/W)	V, Min. Hot T _c = 105°C (V)	V, Max. Cold T _c = -40°C (V)
	1170	32.2	34.4	37.4	-14.5	0.11	31.1	38.4
BXRC-xxx4001-C-7x-SE	2340	34.2	36.6	39.8	-14.5	0.13	33.5	41.2

Notes for Table 7:

1. Parts are tested in pulsed conditions, T $_{\rm c}$ = 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 \pm 0.10V on forward voltage measurements.

4. Typical coefficient of forward voltage tolerance is \pm 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_fmin 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 1160 V. The working voltage designated for the insulation is 80V d.c. The maximum allowable voltage across the array must be determined in the end product application.

Absolute Maximum Ratings

Table 8: Maximum Ratings

Parameter	Maximum Rating					
LED Junction Temperature (T _j)	150°C					
Storage Temperature	-40°C to +105°C					
Operating Case Temperature ¹ (T _c)	105°C					
Soldering Temperature ²	300°C or lower for a maximum of 6 seconds					
Maximum Drive Current ³	2340mA					
Maximum Peak Pulsed Drive Current⁴	3340mA					
Maximum Reverse Voltage ⁵	-60V					

Notes for Table 8:

- 2. Refer to Bridgelux Application Note AN31: Handling and Assembly of Vero, Vero SE and Vesta SE LED Modules.
- 3. Arrays may be driven at higher currents however lumen maintenance may be reduced.
- 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.

^{1.} For IEC 62717 requirement, please consult your Bridgelux sales representative.

Eye Safety

Table 9: Eye Safety Risk Group (RG) Classifications

Part Number	Drive Current ⁴	CCT ¹⁴							
	(mA)	2700K/3000K	4000K	5000K²	6500K3				
BXRC-xxx4001-C-7x-SE	1170	RG1	RG1	RG1	RG1				
	1755	RG1	RG1	RG2	RG2				
	2340	RG1	RG1	RG2	RG2				

Notes for Table 9:

 Eye safety classification for the use of Bridgelux Vero SE Series LED arrays is in accordance with specification IEC/TR 62778: Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires.

2. For products classified as RG2 at 5000K $\rm E_{thr}$ = 1315.8 lx.

3. For products classified as RG2 at 6500K, E_{thr} = 1124.5 lx.

4. Please contact your Bridgelux sales representative for E_{thr} values at specific drive currents and CCTs not listed.

Product Bin Definitions

	Cente	r Point	Degree	2-s	tep	3-s	tep	4-s	tep
ССТ	×	У	(°)	а	b	а	b	а	b
2700K	0.4570	0.4120	53.700	0.00540	0.00280	0.0081	0.0042	N/A	N/A
3000K	0.4333	0.4048	53.217	0.00556	0.00272	0.0083	0.0041	N/A	N/A
4000K	0.3828	0.3819	53.717	0.00626	0.00268	0.0094	0.0040	N/A	N/A
5000K	0.3454	0.3586	59.617	N/A	N/A	0.0082	0.0035	0.0110	0.0047
5700K	0.3308	0.3464	59.060	N/A	N/A	0.0074	0.0032	0.0099	0.0042
6500K	0.3149	0.3334	58.567	N/A	N/A	0.0066	0.0028	0.0090	0.0038

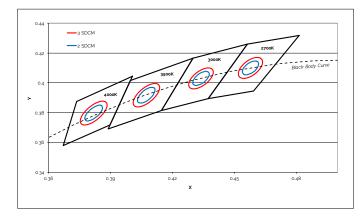
Table 10: 2-, 3- and 4-step MacAdam Ellipse Color Bin Definitions

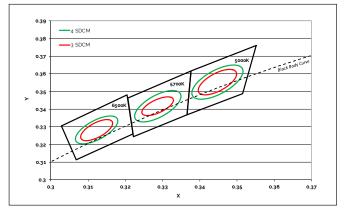
Notes for Table 10:

1. Color binning at T_c=85°C

2. Bridgelux maintains a tolerance of ± 0.007 on x and y color coordinates in the CIE 1931 color space.







Performance Curves

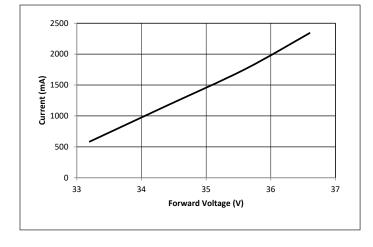


Figure 11: Vero SE 18C Drive Current vs. Voltage (T_=25°C)

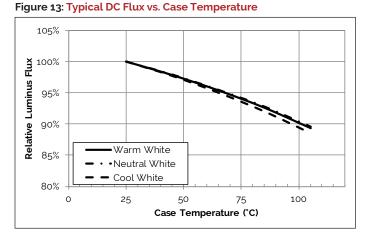
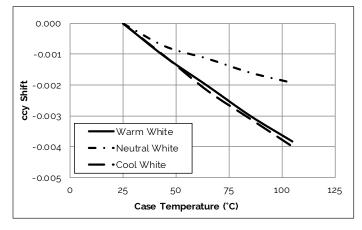


Figure 15: Typical ccy Shift vs. Case Temperature



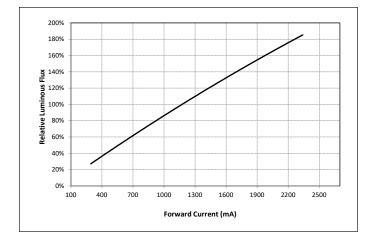
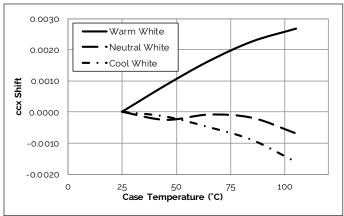


Figure 12: Vero SE 18C Typical Relative Flux vs. Current (T_=25°C)

Figure 14: Typical ccx Shift vs. Case Temperature

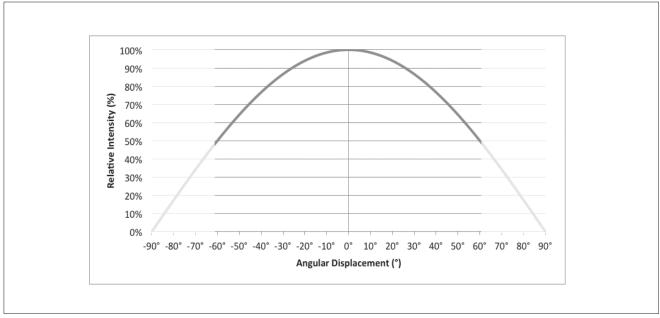


Notes for Figures 13-15:

- 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 warm white based on 3000K Thrive
- 3. Characteristics shown for neutral white based on 4000K Thrive
- 4. Characteristics shown for cool white based on 5700K Thrive
- 5. For other color SKUs, the shift in color will vary. Please contact your Bridgelux Sales Representative for more information.

Typical Radiation Pattern

Figure 16: Typical Spatial Radiation Pattern

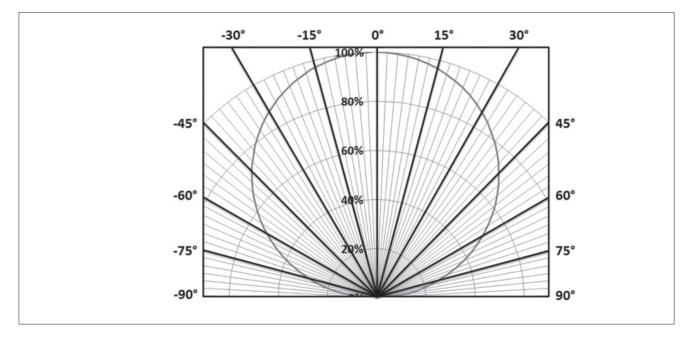


Notes for Figure 16:

1. Typical viewing angle is 120°.

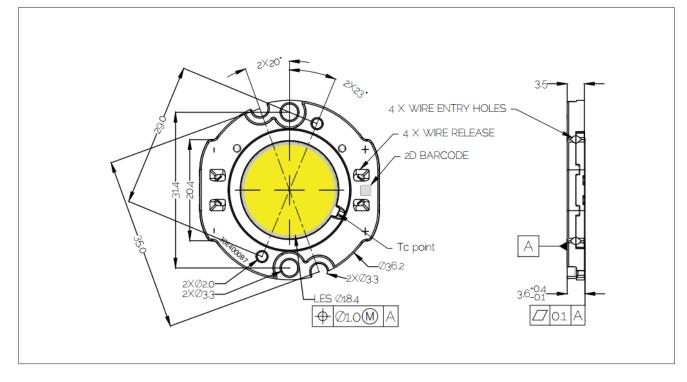
2. The viewing angle is defined as the off axis angle from the centerline where intensity is ½ of the peak value.

Figure 17: Typical Polar Radiation Pattern



Mechanical Dimensions

Figure 18: Drawing for Vero SE 18 LED Array

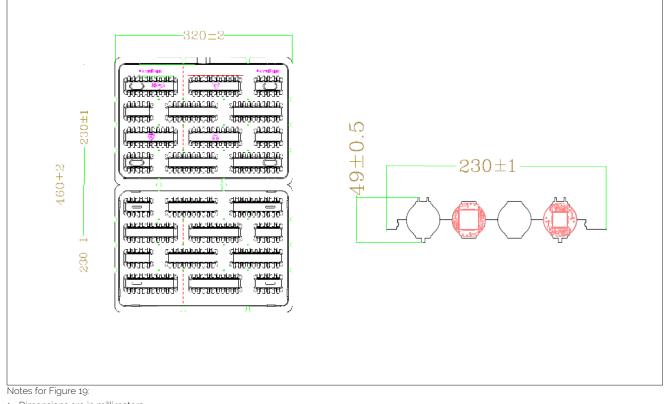


Notes for Figure 18:

- 1. Drawings are not to scale.
- 2. Drawing dimensions are in millimeters.
- 3. Unless otherwise specified, tolerances are ±0.1mm.
- 4. Mounting holes (2X) are for M3 screws.
- 5. Bridgelux recommends two tapped holes for mounting screws with 31.4 ± 0.10mm center-to-center spacing.
- 6. Screws with flat shoulders (pan, dome, button, round, truss, mushroom) provide optimal torque control. Do NOT use flat, countersink, or raised head screws.
- 7. The optical center of the LED Array is nominally defined by the mechanical center of the array to a tolerance of ± 0.2mm.
- 8. Bridgelux maintains a flatness of 0.10mm across the mounting surface of the array.

Packaging and Labeling

Figure 19: Drawing for Vero SE 18 Packaging Tray

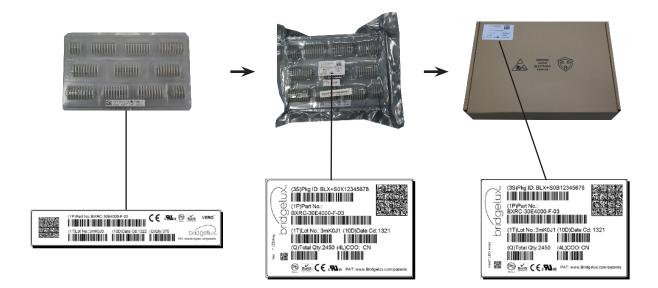


1. Dimensions are in millimeters.

2. Drawing is not to scale.

Packaging and Labeling

Figure 20: Vero SE Series Packaging and Labeling



Notes for Figure 20:

- 1. Each tray holds 100 COBs.
- 2. Each tray is vacuum sealed in an anti-static bag and placed in its own box.
- 3. Each tray, bag and box is to be labeled as shown above.

Figure 21: Product Labeling

Bridgelux COB arrays have laser markings on the back side of the substrate to help with product identification. In addition to the product identification markings, Bridgelux COB arrays also contain markings for internal Bridgelux manufacturing use only. The image below shows which markings are for customer use and which ones are for Bridgelux internal use only. The Bridgelux internal manufacturing markings are subject to change without notice, however these will not impact the form, function or performance of the COB array.



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

Customer Use- Product part number

— Internal Bridgelux use only.

Design Resources

Application Notes

Bridgelux has developed a comprehensive set of application notes and design resources to assist customers in successfully designing with the Vero SE product family of LED array products. For all available application notes visit www.bridgelux.com.

Optical Source Models

Optical source models and ray set files are available for all Bridgelux products. For a list of available formats, visit www.bridgelux.com.

Precautions

CAUTION: CHEMICAL EXPOSURE HAZARD

Exposure to some chemicals commonly used in luminaire manufacturing and assembly can cause damage to the LED array. Please consult Bridgelux Application Note AN120 for additional information.

CAUTION: RISK OF BURN

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

3D CAD Models

Three dimensional CAD models depicting the product outline of all Bridgelux Vero SE LED arrays are available in both IGS and STEP formats. Please contact your Bridgelux sales representative for assistance.

LM80

LM80 testing has been completed and the LM80 report is now available. Please contact your Bridgelux sales representative for LM-80 report.

CAUTION

CONTACT WITH LIGHT EMITTING SURFACE (LES)

Avoid any contact with the LES. Do not touch the LES of the LED array or apply stress to the LES (yellow phosphor resin area). Contact may cause damage to the LED array.

Optics and reflectors must not be mounted in contact with the LES (yellow phosphor resin area). Optical devices may be mounted on the top surface of the plastic housing of the Vero LED array. Use the mechanical features of the LED array housing, edges and/or mounting holes to locate and secure optical devices as needed.

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.

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