



Bridgelux® Vero® SE 18 Array

Product Data Sheet DS122



Introduction

Vero SE



Vero® SE Series is a revolutionary light source system that integrates Bridgelux's seventh generation COB technology with poke-in connectivity enabling solder-free installation. Vero SE LED light sources streamline assembly processes, lower manufacturing cost, simplify luminaire design, improve light quality and increase design flexibility.

Vero SE is available in four different light emitting surface (LES) configurations that operate reliably over a broad current range. With Vero SE, secondary connector and holder components are not required, allowing for rapid integration of arrays into fixtures and an efficient field replaceable solution. Vero SE arrays deliver increased lumen density for improved beam control and precision lighting with 2 and 3 SDCM color control standards for clean and consistent uniform lighting.

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 Class A is based on human response testing, providing color points with a combined GAI and CRI metric.

Décor Series™ Ultra products provide a high CRI of 97 and a minimum R₉ value of 93, 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 also a good replacement for halogen lamps.

Décor Series™ Food products offer color points developed to address the unique requirements of the food, grocery, and restaurant industries. Highlighting the distinctive colors and nuanced patterns found in meats and breads, the Décor Series Food products are a must have for any butcher counter or bakery.

Décor Series™ Entertainment products provide color points developed specifically for the healthcare and entertainment industries. The 5600K cool white color point combined with a CRI of 90 or 97 provides the bright white required by these industries.

Décor Series™ Street and Landmark is designed to be a direct replacement for high pressure sodium lamps.

Décor Series™ Showcase is the optimal solution for replacing ceramic metal halide lamps, incorporating the same pure white light with enhanced spectrum coverage and higher efficacy.

Features

- Poke-in connectivity
- Efficacy of 168 lm/W typical
- Lumen output performance ranges from 1,372 to 13,060 lumens
- Broad range of CCT options from 1750K to 6500K
- CRI options: minimum 65, 70, 80, and 90
- Color control: 2 and 3 SDCM for 2700K-4000K CCT
- Reliable operation at up to 2X nominal drive current
- Radial die pattern and improved lumen density
- Top side part number markings
- No exposed solder pads or electrical connections
- V_f bin code backside marking

Benefits

- Poke-in connectivity enables solderless, connector free installation
- Broad application coverage for interior and exterior lighting
- Flexibility for application driven lighting design requirements
- High quality, true color reproduction
- Uniform consistent white light
- Flexibility in design optimization
- Enhanced ease of use and assembly
- Ability to configure multiple Vero SE arrays in series and parallel reduces customer driver cost
- Improved inventory management and quality control



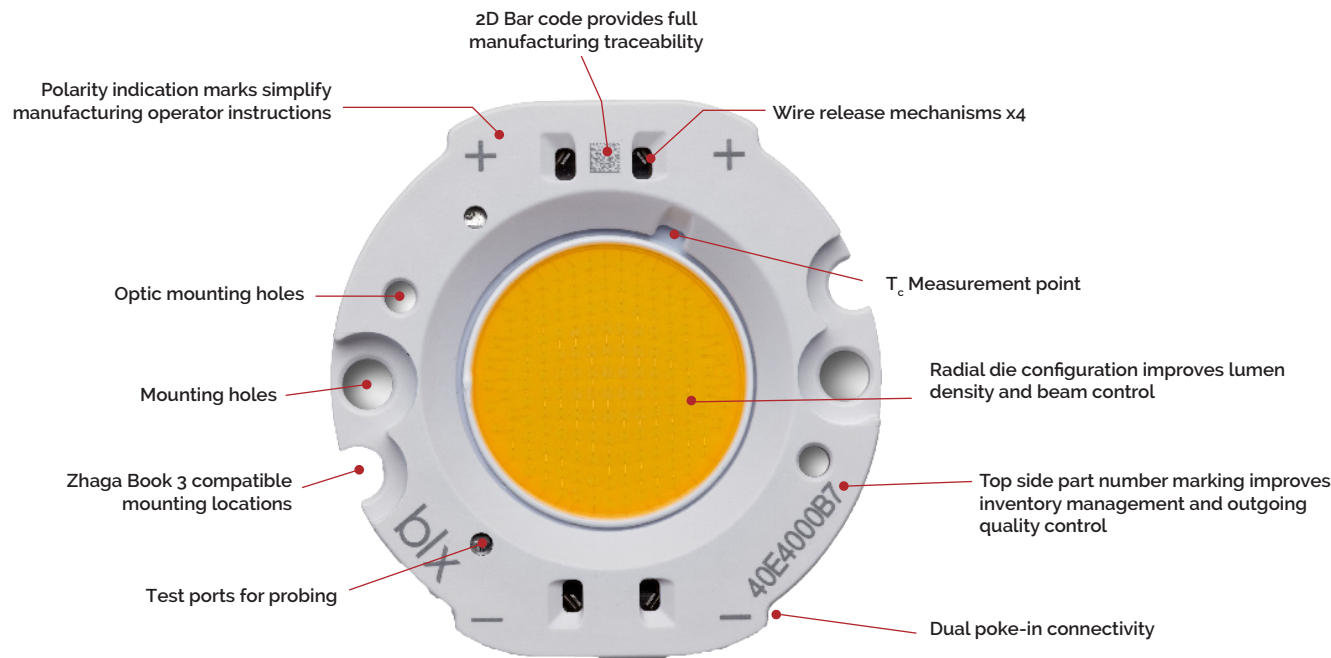
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Product Feature Map

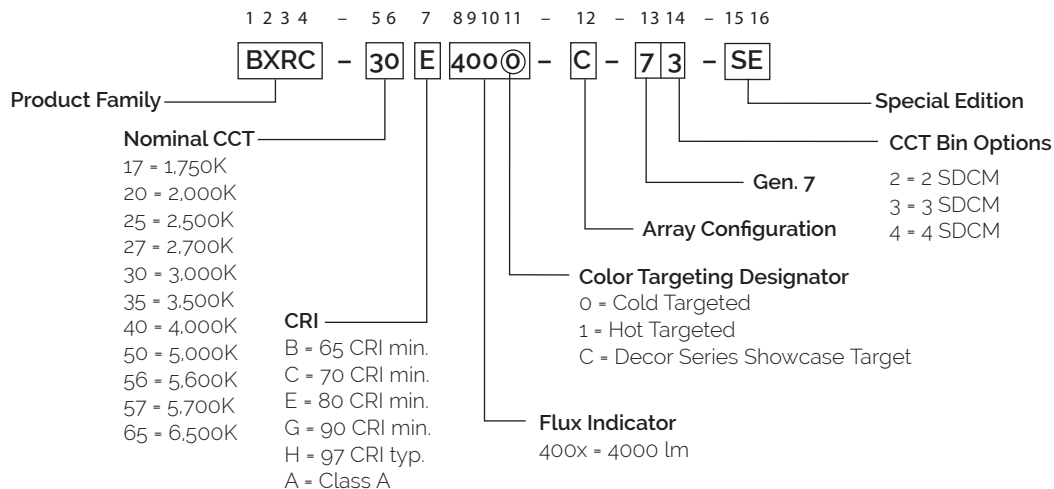
Vero SE 18 is the second largest form factor in the product family of next generation solid state light sources. In addition to delivering the performance and light quality required for many lighting applications,

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 Nomenclature

The part number designation for Bridgelux Vero SE 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)
BXRC-17E4000-B-7x-SE	1750	80	900	2844	2560	34.8	31.3	91
BXRC-17E4000-C-7x-SE	1750	80	1170	3697	3327	34.8	40.7	91
BXRC-17E4000-D-7x-SE	1750	80	1050	2765	2488	29.0	30.5	91
BXRC-20B4001-C-7x-SE	2000	65	1170	6309	5678	34.8	40.7	155
BXRC-20B4001-D-7x-SE	2000	65	1050	4719	4247	29.0	30.5	155
BXRC-25E4000-B-7x-SE	2500	80	900	4730	4257	34.8	31.3	151
BXRC-25E4000-C-7x-SE	2500	80	1170	6149	5534	34.8	40.7	151
BXRC-25E4000-D-7x-SE	2500	80	1050	4598	4138	29.0	30.5	151
BXRC-27E4000-B-7x-SE	2700	80	900	4946	4451	34.8	31.3	158
BXRC-27E4000-C-7x-SE	2700	80	1170	6430	5787	34.8	40.7	158
BXRC-27E4000-D-7x-SE	2700	80	1050	4809	4328	29.0	30.5	158
BXRC-27G40H0-B-7x-SE	2700	90	900	4235	3812	34.8	31.3	135
BXRC-27G40H0-C-7x-SE	2700	90	1170	5506	4955	34.8	40.7	135
BXRC-27G40H0-D-7x-SE	2700	90	1050	4117	3706	29.0	30.5	135
BXRC-27G4000-B-7x-SE	2700	90	900	4080	3672	34.8	31.3	130
BXRC-27G4000-C-7x-SE	2700	90	1170	5305	4774	34.8	40.7	130
BXRC-27G4000-D-7x-SE	2700	90	1050	3967	3570	29.0	30.5	130
BXRC-27H4000-B-7x-SE	2700	97	900	3617	3255	34.8	31.3	115
BXRC-27H4000-C-7x-SE	2700	97	1170	4702	4232	34.8	40.7	115
BXRC-27H4000-D-7x-SE	2700	97	1050	3516	3165	29.0	30.5	115
BXRC-30C4001-B-7x-SE	3000	70	900	5502	4952	34.8	31.3	176
BXRC-30C4001-C-7x-SE	3000	70	1170	7153	6438	34.8	40.7	176
BXRC-30C4001-D-7x-SE	3000	70	1050	5350	4815	29.0	30.5	176
BXRC-30E4000-B-7x-SE	3000	80	900	5255	4730	34.8	31.3	168
BXRC-30E4000-C-7x-SE	3000	80	1170	6832	6149	34.8	40.7	168
BXRC-30E4000-D-7x-SE	3000	80	1050	5109	4598	29.0	30.5	168
BXRC-30G40H0-B-7x-SE	3000	90	900	4451	4006	34.8	31.3	142
BXRC-30G40H0-C-7x-SE	3000	90	1170	5787	5208	34.8	40.7	142
BXRC-30G40H0-D-7x-SE	3000	90	1050	4328	3895	29.0	30.5	142
BXRC-30G4000-B-7x-SE	3000	90	900	4266	3839	34.8	31.3	136
BXRC-30G4000-C-7x-SE	3000	90	1170	5546	4991	34.8	40.7	136
BXRC-30G4000-D-7x-SE	3000	90	1050	4147	3733	29.0	30.5	136
BXRC-30G400C-B-7x-SE	3000	90	900	4111	3700	34.8	31.3	131
BXRC-30G400C-D-7x-SE	3000	90	1050	3997	3597	29.0	30.5	131

Notes for Table 1:

- Nominal CCT as defined by ANSI C78.377-2011. Products with a CCT of 5000K-6500K are hot targeted to $T_c = 85^\circ\text{C}$.
- CRI values are typical for Decor Series Ultra, Decor Series Street and Landmark and Decor Series Class A products. 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 93. 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 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.
- Nominal CCT is defined by the Lighting Research Center's Class A definition. The center of the Class A color bin is on the corresponding isothermal line.
- GAI value is 80. To help ensure optimal fixture level performance, GAI is measured at the fixture level, on axis, at a case temperature of 70°C . GAI may vary depending on fixture design and performance.

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)
BXRC-30H4000-B-7x-SE	3000	97	900	3864	3478	34.8	31.3	123
BXRC-30H4000-C-7x-SE	3000	97	1170	5023	4521	34.8	40.7	123
BXRC-30H4000-D-7x-SE	3000	97	1050	3757	3381	29.0	30.5	123
BXRC-30A4001-B-7x-SE ^{8,9}	3000	93	900	3833	3450	34.8	31.3	122
BXRC-30A4001-C-7x-SE ^{8,9}	3000	93	1170	4983	4485	34.8	40.7	122
BXRC-30A4001-D-73-SE ^{8,9}	3000	93	1050	3727	3354	29.0	30.5	122
BXRC-35E4000-B-7x-SE	3500	80	900	5379	4841	34.8	31.3	172
BXRC-35E4000-C-7x-SE	3500	80	1170	6992	6293	34.8	40.7	172
BXRC-35E4000-D-7x-SE	3500	80	1050	5229	4706	29.0	30.5	172
BXRC-35G4000-B-7x-SE	3500	90	900	4421	3978	34.8	31.3	141
BXRC-35G4000-C-7x-SE	3500	90	1170	5747	5172	34.8	40.7	141
BXRC-35G4000-D-7x-SE	3500	90	1050	4298	3868	29.0	30.5	141
BXRC-35A4001-B-7x-SE ^{8,9}	3500	93	900	4080	3672	34.8	31.3	130
BXRC-35A4001-C-7x-SE ^{8,9}	3500	93	1170	5305	4774	34.8	40.7	130
BXRC-35A4001-D-7x-SE ^{8,9}	3500	93	1050	3967	3570	29.0	30.5	130
BXRC-40C4001-B-7x-SE	4000	90	900	5657	5091	34.8	31.3	181
BXRC-40C4001-C-7x-SE	4000	90	1170	7354	6619	34.8	40.7	181
BXRC-40C4001-D-7x-SE	4000	90	1050	5500	4950	29.0	30.5	181
BXRC-40E4000-B-7x-SE	4000	80	900	5410	4869	34.8	31.3	173
BXRC-40E4000-C-7x-SE	4000	80	1170	7033	6329	34.8	40.7	173
BXRC-40E4000-D-7x-SE	4000	80	1050	5259	4734	29.0	30.5	173
BXRC-40G4000-B-7x-SE	4000	90	900	4513	4062	34.8	31.3	144
BXRC-40G4000-C-7x-SE	4000	90	1170	5867	5281	34.8	40.7	144
BXRC-40G4000-D-7x-SE	4000	90	1050	4388	3949	29.0	30.5	144
BXRC-40H4000-B-7x-SE	4000	97	900	4080	3672	34.8	31.3	130
BXRC-40H4000-C-7x-SE	4000	97	1170	5305	4774	34.8	40.7	130
BXRC-40H4000-D-7x-SE	4000	97	1050	3967	3570	29.0	30.5	130
BXRC-40A4001-B-7x-SE ^{8,9}	4000	93	900	4421	3978	34.8	31.3	141
BXRC-40A4001-C-7x-SE ^{8,9}	4000	93	1170	5747	5172	34.8	40.7	141
BXRC-40A4001-D-7x-SE ^{8,9}	4000	93	1050	4298	3868	29.0	30.5	141
BXRC-50C4001-B-7x-SE	5000	70	900	5688	5119	34.8	31.3	182
BXRC-50C4001-C-7x-SE	5000	70	1170	7394	6655	34.8	40.7	182
BXRC-50C4001-D-7x-SE	5000	70	1050	5530	4977	29.0	30.5	182
BXRC-50E4001-B-7x-SE	5000	80	900	5472	4924	34.8	31.3	175
BXRC-50E4001-C-7x-SE	5000	80	1170	7113	6402	34.8	40.7	175
BXRC-50E4001-D-7x-SE	5000	80	1050	5320	4788	29.0	30.5	175

Notes for Table 1:

- Nominal CCT as defined by ANSI C78.377-2011. Products with a CCT of 5000K-6500K are hot targeted to $T_c = 85^\circ\text{C}$.
- CRI values are typical for Decor Series Ultra, Decor Series Street and Landmark and Decor Series Class A products. 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 93. 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 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.
- Nominal CCT is defined by the Lighting Research Center's Class A definition. The center of the Class A color bin is on the corresponding isothermal line.
- GAI value is 80. To help ensure optimal fixture level performance, GAI is measured at the fixture level, on axis, at a case temperature of 70°C . GAI may vary depending on fixture design and performance.

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)
BXRC-50G4001-B-7x-SE	5000	90	900	4730	4257	34.8	31.3	151
BXRC-50G4001-C-7x-SE	5000	90	1170	6149	5534	34.8	40.7	151
BXRC-50G4001-D-7x-SE	5000	90	1050	4598	4138	29.0	30.5	151
BXRC-56G4000-B-7x-SE	5600	90	900	4761	4285	34.8	31.3	152
BXRC-56G4000-C-7x-SE	5600	90	1170	6189	5570	34.8	40.7	152
BXRC-56G4000-D-7x-SE	5600	90	1050	4628	4166	29.0	30.5	152
BXRC-56H4000-D-7x-SE	5600	97	1050	4178	3760	29.0	30.5	137
BXRC-57C4001-B-7x-SE	5700	70	900	5533	4980	34.8	31.3	177
BXRC-57C4001-C-7x-SE	5700	70	1170	7193	6474	34.8	40.7	177
BXRC-57C4001-D-7x-SE	5700	70	1050	5380	4842	29.0	30.5	177
BXRC-57E4001-B-7x-SE	5700	80	900	5255	4730	34.8	31.3	168
BXRC-57E4001-C-7x-SE	5700	80	1170	6832	6149	34.8	40.7	168
BXRC-57E4001-D-7x-SE	5700	80	1050	5109	4598	29.0	30.5	168
BXRC-65C4001-B-7x-SE	6500	70	900	5533	4980	34.8	31.3	177
BXRC-65C4001-C-7x-SE	6500	70	1170	7193	6474	34.8	40.7	177
BXRC-65C4001-D-7x-SE	6500	70	1050	5380	4842	29.0	30.5	177
BXRC-65E4001-B-7x-SE	6500	80	900	5317	4785	34.8	31.3	170
BXRC-65E4001-C-7x-SE	6500	80	1170	6912	6221	34.8	40.7	170
BXRC-65E4001-D-7x-SE	6500	80	1050	5169	4652	29.0	30.5	170

Notes for Table 1:

- Nominal CCT as defined by ANSI C78.377-2011. Products with a CCT of 5000K-6500K are hot targeted to $T_c = 85^\circ\text{C}$.
- CRI values are typical for Decor Series Ultra, Decor Series Street and Landmark and Decor Series Class A products. 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 93. 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 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.
- Nominal CCT is defined by the Lighting Research Center's Class A definition. The center of the Class A color bin is on the corresponding isothermal line.
- GAI value is 80. To help ensure optimal fixture level performance, GAI is measured at the fixture level, on axis, at a case temperature of 70°C . GAI may vary depending on fixture design and performance.

Product Selection Guide

Table 2: Selection Guide, Stabilized DC Performance ($T_c = 70^\circ\text{C}$) ^{7,8}

Part Number	Nominal CCT ¹ (K)	GAI ²	CRI ³	Nominal Drive Current ⁴ (mA)	Typical DC Flux ^{5,6} $T_c = 70^\circ\text{C}$ (lm)	Minimum DC Flux ^{6,9} $T_c = 70^\circ\text{C}$ (lm)	Typical V_f (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRC-30A4001-B-7x-SE	3000	80	93	900	3565	3208	34.3	30.9	115
BXRC-30A4001-C-7x-SE	3000	80	93	1170	4634	4171	34.3	40.2	115
BXRC-30A4001-D-7x-SE	3000	80	93	1050	3466	3119	28.5	29.9	116
BXRC-35A4001-B-7x-SE	3500	80	93	900	3795	3415	34.3	30.9	123
BXRC-35A4001-C-7x-SE	3500	80	93	1170	4933	4440	34.3	40.2	123
BXRC-35A4001-D-7x-SE	3500	80	93	1050	3689	3321	28.5	29.9	123
BXRC-40A4001-B-7x-SE	4000	80	93	900	4111	3700	34.3	30.9	133
BXRC-40A4001-C-7x-SE	4000	80	93	1170	5344	4810	34.3	40.2	133
BXRC-40A4001-D-7x-SE	4000	80	93	1050	3997	3597	28.5	29.9	134

Notes for Table 2:

1. Nominal CCT is defined by the Lighting Research Center's Class A definition. The center of the Class A color bin is on the corresponding isothermal line.
2. To help ensure optimal fixture level performance, GAI is measured at the fixture level, on axis, at a case temperature of 70°C . GAI may vary depending on fixture design and performance.
3. CRI Values are specified as typical.
4. Drive current is referred to as nominal drive current.
5. Typical performance values are provided as a reference only and are not a guarantee of performance.
6. Bridgelux maintains a $\pm 7\%$ tolerance on flux measurements.
7. Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.
8. 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 specified temperature. 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.
9. 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 3: Selection Guide, Stabilized DC Performance ($T_c = 85^\circ\text{C}$) ^{4,5}

Part Number	Nominal CCT ¹ (K)	CRI ²	Nominal Drive Current ³ (mA)	Typical DC Flux ^{4,5} $T_c = 85^\circ\text{C}$ (lm)	Minimum DC Flux ⁶ $T_c = 85^\circ\text{C}$ (lm)	Typical V_f (V)	Typical Power (W)	Typical Efficacy (lm/W)
BXRC-17E4000-B-7x-SE	1750	80	900	2560	2304	33.9	30.5	84
BXRC-17E4000-C-7x-SE	1750	80	1170	3327	2995	33.9	39.7	84
BXRC-17E4000-D-7x-SE	1750	80	1050	2488	2240	28.3	29.7	84
BXRC-20B4001-C-7x-SE	2000	65	1170	5678	5111	34.1	39.9	142
BXRC-20B4001-D-7x-SE	2000	65	1050	4247	3822	28.3	29.7	143
BXRC-25E4000-B-7x-SE	2500	80	900	4257	3831	33.9	30.5	139
BXRC-25E4000-C-7x-SE	2500	80	1170	5534	4980	33.9	39.7	139
BXRC-25E4000-D-7x-SE	2500	80	1050	4138	3725	28.3	29.7	139
BXRC-27E4000-B-7x-SE	2700	80	900	4451	4006	33.9	30.5	146
BXRC-27E4000-C-7x-SE	2700	80	1170	5787	5208	33.9	39.7	146
BXRC-27E4000-D-7x-SE	2700	80	1050	4328	3895	28.3	29.7	146
BXRC-27G40H0-B-7x-SE	2700	90	900	3812	3430	33.9	30.5	125
BXRC-27G40H0-C-7x-SE	2700	90	1170	4955	4460	33.9	39.7	125
BXRC-27G40H0-D-7x-SE	2700	90	1050	3706	3335	28.3	29.7	125
BXRC-27G4000-B-7x-SE	2700	90	900	3672	3305	33.9	30.5	120
BXRC-27G4000-C-7x-SE	2700	90	1170	4774	4297	33.9	39.7	120
BXRC-27G4000-D-7x-SE	2700	90	1050	3570	3213	28.3	29.7	120
BXRC-27H4000-B-7x-SE	2700	97	900	3255	2930	33.9	30.5	107
BXRC-27H4000-C-7x-SE	2700	97	1170	4232	3808	33.9	39.7	107
BXRC-27H4000-D-7x-SE	2700	97	1050	3165	2848	28.3	29.7	107
BXRC-30C4001-B-7x-SE	3000	70	900	4952	4457	33.9	30.5	162
BXRC-30C4001-C-7x-SE	3000	70	1170	6438	5794	33.9	39.7	162
BXRC-30C4001-D-7x-SE	3000	70	1050	4815	4333	28.3	29.7	162
BXRC-30E4000-B-7x-SE	3000	80	900	4730	4257	33.9	30.5	155
BXRC-30E4000-C-7x-SE	3000	80	1170	6149	5534	33.9	39.7	155
BXRC-30E4000-D-7x-SE	3000	80	1050	4598	4138	28.3	29.7	155
BXRC-30G40H0-B-7x-SE	3000	90	900	4006	3606	33.9	30.5	131
BXRC-30G40H0-C-7x-SE	3000	90	1170	5208	4687	33.9	39.7	131
BXRC-30G40H0-D-7x-SE	3000	90	1050	3895	3506	28.3	29.7	131
BXRC-30G4000-B-7x-SE	3000	90	900	3839	3455	33.9	30.5	126
BXRC-30G4000-C-7x-SE	3000	90	1170	4991	4492	33.9	39.7	126
BXRC-30G4000-D-7x-SE	3000	90	1050	3733	3359	28.3	29.7	126
BXRC-30G400C-B-7x-SE	3000	90	900	3700	3330	33.9	30.5	121
BXRC-30G400C-D-7x-SE	3000	90	1050	3597	3238	28.3	29.7	121
BXRC-30H4000-B-7x-SE	3000	97	900	3478	3130	33.9	30.5	114

Notes for Table 3:

- Nominal CCT as defined by ANSI C78.377-2011. Products with a CCT of 5000K-6500K are hot targeted to $T_c = 85^\circ\text{C}$.
- All CRI values are measured at $T_c = 25^\circ\text{C}$. CRI values are typical for Decor Series Ultra, Decor Series Street and Landmark and Decor Series Class A products. 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 93. 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.
- Nominal CCT is defined by the Lighting Research Center's Class A definition. The center of the Class A color bin is on the corresponding isothermal line.
- GAI value is 80. To help ensure optimal fixture level performance, GAI is measured at the fixture level, on axis, at a case temperature of 70°C . GAI may vary depending on fixture design and performance.

Product Selection Guide

Table 3: Selection Guide, Stabilized DC Performance ($T_c = 85^\circ\text{C}$) ^{4,5} (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)
BXRC-30H4000-C-7x-SE	3000	97	1170	4521	4069	33.9	39.7	114
BXRC-30H4000-D-7x-SE	3000	97	1050	3381	3043	28.3	29.7	114
BXRC-30A4001-B-7x-SE ^{7,8}	3000	93	900	3450	3105	33.9	30.5	113
BXRC-30A4001-C-7x-SE ^{7,8}	3000	93	1170	4485	4036	33.9	39.7	113
BXRC-30A4001-D-7x-SE ^{7,8}	3000	93	1050	3354	3019	28.3	29.7	113
BXRC-35E4000-B-7x-SE	3500	80	900	4841	4357	33.9	30.5	159
BXRC-35E4000-C-7x-SE	3500	80	1170	6293	5664	33.9	39.7	159
BXRC-35E4000-D-7x-SE	3500	80	1050	4706	4236	28.3	29.7	159
BXRC-35G4000-B-7x-SE	3500	90	900	3978	3581	33.9	30.5	130
BXRC-35G4000-C-7x-SE	3500	90	1170	5172	4655	33.9	39.7	130
BXRC-35G4000-D-7x-SE	3500	90	1050	3868	3481	28.3	29.7	130
BXRC-35A4001-B-7x-SE ^{7,8}	3500	93	900	3672	3305	33.9	30.5	120
BXRC-35A4001-C-7x-SE ^{7,8}	3500	93	1170	4774	4297	33.9	39.7	120
BXRC-35A4001-D-7x-SE ^{7,8}	3500	93	1050	3570	3213	28.3	29.7	120
BXRC-40C4001-B-7x-SE	4000	70	900	5091	4582	33.9	30.5	167
BXRC-40C4001-C-7x-SE	4000	70	1170	6619	5957	33.9	39.7	167
BXRC-40C4001-D-7x-SE	4000	70	1050	4950	4455	28.3	29.7	167
BXRC-40E4000-B-7x-SE	4000	80	900	4869	4382	33.9	30.5	160
BXRC-40E4000-C-7x-SE	4000	80	1170	6329	5696	33.9	39.7	160
BXRC-40E4000-D-7x-SE	4000	80	1050	4734	4260	28.3	29.7	159
BXRC-40G4000-B-7x-SE	4000	90	900	4062	3656	33.9	30.5	133
BXRC-40G4000-C-7x-SE	4000	90	1170	5281	4752	33.9	39.7	133
BXRC-40G4000-D-7x-SE	4000	90	1050	3949	3554	28.3	29.7	133
BXRC-40H4000-B-7x-SE	4000	97	900	3672	3305	33.9	30.5	120
BXRC-40H4000-C-7x-SE	4000	97	1170	4774	4297	33.9	39.7	120
BXRC-40H4000-D-7x-SE	4000	97	1050	3570	3213	28.3	29.7	120
BXRC-40A4001-B-7x-SE ^{7,8}	4000	93	900	3978	3581	34.1	30.7	130
BXRC-40A4001-C-7x-SE ^{7,8}	4000	93	1170	5172	4655	34.1	39.9	130
BXRC-40A4001-D-7x-SE ^{7,8}	4000	93	1050	3868	3481	28.3	29.7	130
BXRC-50C4001-B-7x-SE	5000	70	900	5119	4607	34.1	30.7	167
BXRC-50C4001-C-7x-SE	5000	70	1170	6655	5989	34.1	39.9	167
BXRC-50C4001-D-7x-SE	5000	70	1050	4977	4479	28.3	29.7	168
BXRC-50E4001-B-7x-SE	5000	80	900	4924	4432	34.1	30.7	161
BXRC-50E4001-C-7x-SE	5000	80	1170	6402	5762	34.1	39.9	161
BXRC-50E4001-D-7x-SE	5000	80	1050	4788	4309	28.3	29.7	161

Notes for Table 3:

- Nominal CCT as defined by ANSI C78 377-2011. Products with a CCT of 5000K-6500K are hot targeted to $T_c = 85^\circ\text{C}$.
- All CRI values are measured at $T_c = T_a = 25^\circ\text{C}$. CRI values are typical for Decor Series Ultra, Decor Series Street and Landmark and Decor Series Class A products. 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 93. 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.
- Nominal CCT is defined by the Lighting Research Center's Class A definition. The center of the Class A color bin is on the corresponding isothermal line.
- GAI value is 80. To help ensure optimal fixture level performance, GAI is measured at the fixture level, on axis, at a case temperature of 70°C . GAI may vary depending on fixture design and performance.

Product Selection Guide

Table 3: Selection Guide, Stabilized DC Performance ($T_c = 85^\circ\text{C}$) ^{4,5} (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)
BXRC-50G4001-B-7x-SE	5000	90	900	4257	3831	34.1	30.7	139
BXRC-50G4001-C-7x-SE	5000	90	1170	5534	4980	34.1	39.9	139
BXRC-50G4001-D-7x-SE	5000	90	1050	4138	3725	28.3	29.7	139
BXRC-56G4000-B-7x-SE	5600	90	900	4285	3856	34.1	30.7	140
BXRC-56G4000-C-7x-SE	5600	90	1170	5570	5013	34.1	39.9	140
BXRC-56G4000-D-7x-SE	5600	90	1050	4166	3749	28.3	29.7	140
BXRC-56H4000-D-7x-SE	5600	97	1050	3760	3384	28.3	29.7	127
BXRC-57C4001-B-7x-SE	5700	80	900	4980	4482	34.1	30.7	162
BXRC-57C4001-C-7x-SE	5700	80	1170	6474	5827	34.1	39.9	162
BXRC-57C4001-D-7x-SE	5700	80	1050	4842	4358	28.3	29.7	163
BXRC-57E4001-B-7x-SE	5700	80	900	4730	4257	34.1	30.7	154
BXRC-57E4001-C-7x-SE	5700	80	1170	6149	5534	34.1	39.9	154
BXRC-57E4001-D-7x-SE	5700	80	1050	4598	4138	28.3	29.7	155
BXRC-65C4001-B-7x-SE	6500	70	900	4980	4482	34.1	30.7	162
BXRC-65C4001-C-7x-SE	6500	70	1170	6474	5827	34.1	39.9	162
BXRC-65C4001-D-7x-SE	6500	70	1050	4842	4358	28.3	29.7	163
BXRC-65E4001-B-7x-SE	6500	80	900	4785	4307	34.1	30.7	156
BXRC-65E4001-C-7x-SE	6500	80	1170	6221	5599	34.1	39.9	156
BXRC-65E4001-D-7x-SE	6500	80	1050	4652	4187	28.3	29.7	157

Notes for Table 3:

- Nominal CCT as defined by ANSI C78.377-2011. Products with a CCT of 5000K-6500K are hot targeted to $T_c = 85^\circ\text{C}$.
- CRI values are typical for Decor Series Ultra, Decor Series Street and Landmark and Decor Series Class A products. 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 98. 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.
- Nominal CCT is defined by the Lighting Research Center's Class A definition. The center of the Class A color bin is on the corresponding isothermal line.
- GAI value is 80. To help ensure optimal fixture level performance, GAI is measured at the fixture level, on axis, at a case temperature of 70°C . GAI may vary depending on fixture design and performance.

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 4 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 4: Part numbers registered in European Product Registry for Energy Labeling

PART NUMBER ¹	CCT (K)	CRI	Current ² (mA)	V _f (V)	Useful flux ³ (Φ_{use}) at 85°C (lm)	Power (W)	Efficacy (lm/W)	Energy efficiency class ⁴ 	Registration No	URL to Product Information Sheet in EPREL Database
BXRC-20B4001-C-7x-SE	2000	65	2340	35.2	8492	82.4	103	F	872448	https://eprelec.europa.eu/qr/872448
BXRC-20B4001-D-7x-SE	2000	65	2100	30.8	6649	64.6	103	F	872450	https://eprelec.europa.eu/qr/872450
BXRC-25E4000-B-7x-SE	2500	80	1800	35.2	6366	63.4	100	F	872454	https://eprelec.europa.eu/qr/872454
BXRC-25E4000-C-7x-SE	2500	80	2340	35.2	8276	82.4	100	F	872455	https://eprelec.europa.eu/qr/872455
BXRC-25E4000-D-7x-SE	2500	80	2100	30.8	6479	64.6	100	F	872456	https://eprelec.europa.eu/qr/872456
BXRC-27E4000-B-7x-SE	2700	80	1800	35.2	6657	63.4	105	F	872506	https://eprelec.europa.eu/qr/872506
BXRC-27E4000-C-7x-SE	2700	80	2340	35.2	8655	82.4	105	F	872511	https://eprelec.europa.eu/qr/872511
BXRC-27E4000-D-7x-SE	2700	80	2100	30.8	6776	64.6	105	F	872516	https://eprelec.europa.eu/qr/872516
BXRC-27G40H0-B-7x-SE	2700	90	1800	35.2	5700	63.4	90	G	872618	https://eprelec.europa.eu/qr/872618
BXRC-27G40H0-C-7x-SE	2700	90	2340	35.2	7411	82.4	90	G	872622	https://eprelec.europa.eu/qr/872622
BXRC-27G40H0-D-7x-SE	2700	90	2100	30.8	5802	64.6	90	G	872626	https://eprelec.europa.eu/qr/872626
BXRC-27G4000-B-7x-SE	2700	90	1800	35.2	5492	63.4	87	G	872604	https://eprelec.europa.eu/qr/872604
BXRC-27G4000-C-7x-SE	2700	90	2340	35.2	7140	82.4	87	G	872609	https://eprelec.europa.eu/qr/872609
BXRC-27G4000-D-7x-SE	2700	90	2100	30.8	5590	64.6	87	G	872614	https://eprelec.europa.eu/qr/872614
BXRC-27H4000-B-7x-SE	2700	95	1650	34.8	4532	57.4	79	G	872662	https://eprelec.europa.eu/qr/872662
BXRC-27H4000-C-7x-SE	2700	95	2110	34.7	5812	73.2	79	G	872666	https://eprelec.europa.eu/qr/872666
BXRC-27H4000-D-7x-SE	2700	95	1920	30.4	4602	58.3	79	G	872670	https://eprelec.europa.eu/qr/872670

Notes for Table 4:

1. All device listed here must be disposed as e-waste upon its end of life according to local country guideline in each country.
2. For information on performance values at alternative drive conditions, please refer to the Product Selection Guide, Absolute Maximum Rating Table and Performance Curves in this data sheet.
3. For a definition of useful luminous flux (Φ_{use}), please see the ELR regulations at <https://tinyurl.com/4b6zvt4m>.
4. EPREL requires an arrow symbol containing the letter of the energy efficiency class to be displayed, on technical promotional material. Refer to this energy efficiency class column for specific energy efficiency class on each part number.

European Product Registry for Energy Labeling

Table 4: Part numbers registered in European Product Registry for Energy Labeling (Continued)

PART NUMBER ¹	CCT (K)	CRI	Current ² (mA)	Vf (V)	Useful flux ³ (Φ_{use}) at 85°C (lm)	Power (W)	Efficacy (lm/W)	Energy efficiency class ⁴ 	Registration No	URL to Product Information Sheet in EPREL Database
BXRC-30C4001-B-7x-SE	3000	70	1800	35.2	7406	63.4	117	F	872747	https://eprel.ec.europa.eu/qr/872747
BXRC-30C4001-C-7x-SE	3000	70	2340	35.2	9628	82.4	117	F	872753	https://eprel.ec.europa.eu/qr/872753
BXRC-30C4001-D-7x-SE	3000	70	2100	30.8	7538	64.6	117	F	872759	https://eprel.ec.europa.eu/qr/872759
BXRC-30E4000-B-7x-SE	3000	80	1800	35.2	7073	63.4	112	F	872812	https://eprel.ec.europa.eu/qr/872812
BXRC-30E4000-C-7x-SE	3000	80	2340	35.2	9196	82.4	112	F	872817	https://eprel.ec.europa.eu/qr/872817
BXRC-30E4000-D-7x-SE	3000	80	2100	30.8	7199	64.6	111	F	872822	https://eprel.ec.europa.eu/qr/872822
BXRC-30G40H0-B-7x-SE	3000	90	1800	35.2	5992	63.4	95	F	872941	https://eprel.ec.europa.eu/qr/872941
BXRC-30G40H0-C-7x-SE	3000	90	2340	35.2	7789	82.4	95	F	872945	https://eprel.ec.europa.eu/qr/872945
BXRC-30G40H0-D-7x-SE	3000	90	2100	30.8	6098	64.6	94	F	872949	https://eprel.ec.europa.eu/qr/872949
BXRC-30G4000-B-7x-SE	3000	90	1800	35.2	5742	63.4	91	G	872921	https://eprel.ec.europa.eu/qr/872921
BXRC-30G4000-C-7x-SE	3000	90	2340	35.2	7465	82.4	91	G	872926	https://eprel.ec.europa.eu/qr/872926
BXRC-30G4000-D-7x-SE	3000	90	2100	30.8	5844	64.6	90	G	872931	https://eprel.ec.europa.eu/qr/872931
BXRC-30G400C-B-7x-SE	3000	90	1800	35.2	5742	63.4	91	G	872935	https://eprel.ec.europa.eu/qr/872935
BXRC-30G400C-D-7x-SE	3000	90	2100	30.8	5844	64.6	90	G	872937	https://eprel.ec.europa.eu/qr/872937
BXRC-30H4000-B-7x-SE	3000	95	1800	35.2	5201	63.4	82	G	872985	https://eprel.ec.europa.eu/qr/872985
BXRC-30H4000-C-7x-SE	3000	95	2340	35.2	6761	82.4	82	G	872989	https://eprel.ec.europa.eu/qr/872989
BXRC-30H4000-D-7x-SE	3000	95	2100	30.8	5293	64.6	82	G	872993	https://eprel.ec.europa.eu/qr/872993
BXRC-30A4001-B-7x-SE	3000	90	1800	35.2	5159	63.4	81	G	872688	https://eprel.ec.europa.eu/qr/872688
BXRC-30A4001-C-7x-SE	3000	90	2290	35.1	6582	80.4	82	G	872689	https://eprel.ec.europa.eu/qr/872689
BXRC-30A4001-D-7x-SE	3000	90	2070	30.7	5183	63.6	82	G	872690	https://eprel.ec.europa.eu/qr/872690
BXRC-35E4000-B-7x-SE	3500	80	1800	35.2	7240	63.4	114	F	873059	https://eprel.ec.europa.eu/qr/873059
BXRC-35E4000-C-7x-SE	3500	80	2340	35.2	9412	82.4	114	F	873064	https://eprel.ec.europa.eu/qr/873064
BXRC-35E4000-D-7x-SE	3500	80	2100	30.8	7369	64.6	114	F	873069	https://eprel.ec.europa.eu/qr/873069
BXRC-35G4000-B-7x-SE	3500	90	1800	35.2	5950	63.4	94	F	873121	https://eprel.ec.europa.eu/qr/873121
BXRC-35G4000-C-7x-SE	3500	90	2340	35.2	7735	82.4	94	F	873126	https://eprel.ec.europa.eu/qr/873126
BXRC-35G4000-D-7x-SE	3500	90	2100	30.8	6056	64.6	94	F	873131	https://eprel.ec.europa.eu/qr/873131
BXRC-35A4001-B-7x-SE	3500	90	1800	35.2	5492	63.4	87	G	873007	https://eprel.ec.europa.eu/qr/873007
BXRC-35A4001-C-7x-SE	3500	90	2340	35.2	7140	82.4	87	G	873008	https://eprel.ec.europa.eu/qr/873008
BXRC-35A4001-D-7x-SE	3500	90	2100	30.8	5590	64.6	87	G	873009	https://eprel.ec.europa.eu/qr/873009
BXRC-40C4001-B-7x-SE	4000	70	1800	35.2	7614	63.4	120	E	873210	https://eprel.ec.europa.eu/qr/873210
BXRC-40C4001-C-7x-SE	4000	70	2340	35.2	9899	82.4	120	E	873216	https://eprel.ec.europa.eu/qr/873216
BXRC-40C4001-D-7x-SE	4000	70	2100	30.8	7750	64.6	120	E	873222	https://eprel.ec.europa.eu/qr/873222
BXRC-40E4000-B-7x-SE	4000	80	1800	35.2	7282	63.4	115	F	873275	https://eprel.ec.europa.eu/qr/873275
BXRC-40E4000-C-7x-SE	4000	80	2340	35.2	9466	82.4	115	F	873280	https://eprel.ec.europa.eu/qr/873280
BXRC-40E4000-D-7x-SE	4000	80	2100	30.8	7411	64.6	115	F	873285	https://eprel.ec.europa.eu/qr/873285

Notes for Table 4:

1. All device listed here must be disposed as e-waste upon its end of life according to local country guideline in each country.
2. For information on performance values at alternative drive conditions, please refer to the Product Selection Guide, Absolute Maximum Rating Table and Performance Curves in this data sheet.
3. For a definition of useful luminous flux (Φ_{use}), please see the ELR regulations at <https://tinyurl.com/4b6zvt4m>.
4. EPREL requires an arrow symbol containing the letter of the energy efficiency class to be displayed, on technical promotional material. Refer to this energy efficiency class column for specific energy efficiency class on each part number.

European Product Registry for Energy Labeling

Table 4: Part numbers registered in European Product Registry for Energy Labeling (Continued)

PART NUMBER ¹	CCT (K)	CRI	Current ² (mA)	Vf (V)	Useful flux ³ (Φ_{use}) at 85°C (lm)	Power (W)	Efficacy (lm/W)	Energy efficiency class ⁴ 	Registration No	URL to Product Information Sheet in EPREL Database
BXRC-40G4000-B-7x-SE	4000	90	1800	35.2	6075	63.4	96	F	873337	https://epreLec.europa.eu/qr/873337
BXRC-40G4000-C-7x-SE	4000	90	2340	35.2	7897	82.4	96	F	873342	https://epreLec.europa.eu/qr/873342
BXRC-40G4000-D-7x-SE	4000	90	2100	30.8	6183	64.6	96	F	873347	https://epreLec.europa.eu/qr/873347
BXRC-40H4000-B-7x-SE	4000	95	1800	35.2	5492	63.4	87	G	873365	https://epreLec.europa.eu/qr/873365
BXRC-40H4000-C-7x-SE	4000	95	2340	35.2	7140	82.4	87	G	873367	https://epreLec.europa.eu/qr/873367
BXRC-40H4000-D-7x-SE	4000	95	2100	30.8	5590	64.6	87	G	873369	https://epreLec.europa.eu/qr/873369
BXRC-40A4001-B-7x-SE	4000	90	1800	35.2	5950	63.4	94	F	873151	https://epreLec.europa.eu/qr/873151
BXRC-40A4001-C-7x-SE	4000	90	2340	35.2	7735	82.4	94	F	873152	https://epreLec.europa.eu/qr/873152
BXRC-40A4001-D-7x-SE	4000	90	2100	30.8	6056	64.6	94	F	873153	https://epreLec.europa.eu/qr/873153
BXRC-50C4001-B-7x-SE	5000	70	1800	35.2	7656	63.4	121	E	873408	https://epreLec.europa.eu/qr/873408
BXRC-50C4001-C-7x-SE	5000	70	2340	35.2	9953	82.4	121	E	873412	https://epreLec.europa.eu/qr/873412
BXRC-50C4001-D-7x-SE	5000	70	2100	30.8	7792	64.6	121	E	873416	https://epreLec.europa.eu/qr/873416
BXRC-50E4001-B-7x-SE	5000	80	1800	35.2	7365	63.4	116	F	873456	https://epreLec.europa.eu/qr/873456
BXRC-50E4001-C-7x-SE	5000	80	2340	35.2	9574	82.4	116	F	873460	https://epreLec.europa.eu/qr/873460
BXRC-50E4001-D-7x-SE	5000	80	2100	30.8	7496	64.6	116	F	873464	https://epreLec.europa.eu/qr/873464
BXRC-50G4001-B-7x-SE	5000	90	1800	35.2	6366	63.4	100	F	873504	https://epreLec.europa.eu/qr/873504
BXRC-50G4001-C-7x-SE	5000	90	2340	35.2	8276	82.4	100	F	873508	https://epreLec.europa.eu/qr/873508
BXRC-50G4001-D-7x-SE	5000	90	2100	30.8	6479	64.6	100	F	873512	https://epreLec.europa.eu/qr/873512
BXRC-56G4000-B-7x-SE	5600	90	1800	35.2	6408	63.4	101	F	873520	https://epreLec.europa.eu/qr/873520
BXRC-56H4000-D-7x-SE	5600	95	2100	30.8	5886	64.6	91	G	873551	https://epreLec.europa.eu/qr/873551
BXRC-57C4001-B-7x-SE	5700	70	1800	35.2	7448	63.4	118	F	873590	https://epreLec.europa.eu/qr/873590
BXRC-57C4001-C-7x-SE	5700	70	2340	35.2	9682	82.4	118	F	873594	https://epreLec.europa.eu/qr/873594
BXRC-57C4001-D-7x-SE	5700	70	2100	30.8	7580	64.6	117	F	873598	https://epreLec.europa.eu/qr/873598
BXRC-57E4001-B-7x-SE	5700	80	1800	35.2	7073	63.4	112	F	873638	https://epreLec.europa.eu/qr/873638
BXRC-57E4001-C-7x-SE	5700	80	2340	35.2	9196	82.4	112	F	873642	https://epreLec.europa.eu/qr/873642
BXRC-57E4001-D-7x-SE	5700	80	2100	30.8	7199	64.6	111	F	873646	https://epreLec.europa.eu/qr/873646
BXRC-65C4001-B-7x-SE	6500	70	1800	35.2	7448	63.4	118	F	873686	https://epreLec.europa.eu/qr/873686
BXRC-65C4001-C-7x-SE	6500	70	2340	35.2	9682	82.4	118	F	873690	https://epreLec.europa.eu/qr/873690
BXRC-65C4001-D-7x-SE	6500	70	2100	30.8	7580	64.6	117	F	873694	https://epreLec.europa.eu/qr/873694
BXRC-65E4001-B-7x-SE	6500	80	1800	35.2	7157	63.4	113	F	873734	https://epreLec.europa.eu/qr/873734
BXRC-65E4001-C-7x-SE	6500	80	2340	35.2	9304	82.4	113	F	873738	https://epreLec.europa.eu/qr/873738
BXRC-65E4001-D-7x-SE	6500	80	2100	30.8	7284	64.6	113	F	873742	https://epreLec.europa.eu/qr/873742

Notes for Table 4:

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

Vero SE LED arrays are tested to the specifications shown using the nominal drive currents in Table 1. Vero SE 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 & 3 and the flux vs. current characteristics shown in Figures 4, 5 & 6. The performance at commonly used drive currents is summarized in Table 5.

Table 5: Product Performance at Commonly Used Drive Currents

Part Number	CRI	Drive Current ¹ (mA)	Typical V_f $T_c = 25^\circ\text{C}$ (V)	Typical Power $T_c = 25^\circ\text{C}$ (W)	Typical Flux ² $T_c = 25^\circ\text{C}$ (lm)	Typical DC Flux ³ $T_c = 85^\circ\text{C}$ (lm)	Typical Efficacy $T_c = 25^\circ\text{C}$ (lm/W)
BXRC-17E4000-B-7x-SE	80	450	33.1	14.9	1469	1342	98
		600	33.8	20.3	1929	1754	95
		900	34.8	31.3	2844	2560	91
		1350	36.5	49.2	4103	3615	83
		1800	37.8	68.1	5173	4445	76
BXRC-17E4000-C-7x-SE	80	585	33.2	19.4	1910	1745	98
		780	33.8	26.4	2508	2280	95
		1170	34.8	40.7	3697	3327	91
		1755	36.5	64.1	5334	4699	83
		2340	37.9	88.8	6725	5778	76
BXRC-17E4000-D-7x-SE	80	525	27.7	14.6	1431	1307	98
		700	28.2	19.8	1868	1698	95
		1050	29.0	30.5	2765	2488	91
		1575	30.4	47.9	4088	3601	85
		2100	31.5	66.2	5265	4524	80
BXRC-20B4001-C-7x-SE	65	585	33.2	19.4	3259	2977	168
		780	33.8	26.4	4280	3891	162
		1170	34.8	40.7	6309	5678	155
		1755	36.5	64.1	9103	8019	142
		2340	37.9	88.8	11477	9861	129
BXRC-20B4001-D-7x-SE	65	525	27.7	14.6	2442	2231	168
		700	28.2	19.8	3188	2898	161
		1050	29.0	30.5	4719	4247	155
		1575	30.4	47.9	6975	6145	146
		2100	31.5	66.2	8985	7720	136
BXRC-25E4000-B-7x-SE	80	450	33.1	14.9	2443	2232	164
		600	33.8	20.3	3208	2917	158
		900	34.8	31.3	4730	4257	151
		1350	36.5	49.2	6824	6011	139
		1800	37.8	68.1	8603	7392	126
BXRC-25E4000-C-7x-SE	80	585	33.2	19.4	3176	2901	164
		780	33.8	26.4	4171	3792	158
		1170	34.8	40.7	6149	5534	151
		1755	36.5	64.1	8871	7814	138
		2340	37.9	88.8	11184	9610	126
BXRC-25E4000-D-7x-SE	80	525	27.7	14.6	2380	2174	163
		700	28.2	19.8	3107	2824	157
		1050	29.0	30.5	4598	4138	151
		1575	30.4	47.9	6798	5988	142
		2100	31.5	66.2	8756	7524	132

Notes for Table 5:

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 5: 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)
BXRC-27E4000-B-7x-SE	80	450	33.1	14.9	2555	2334	171
		600	33.8	20.3	3355	3050	166
		900	34.8	31.3	4946	4451	158
		1350	36.5	49.2	7136	6286	145
		1800	37.8	68.1	8997	7730	132
BXRC-27E4000-C-7x-SE	80	585	33.2	19.4	3321	3034	171
		780	33.8	26.4	4361	3965	165
		1170	34.8	40.7	6430	5787	158
		1755	36.5	64.1	9276	8172	145
		2340	37.9	88.8	11696	10050	132
BXRC-27E4000-D-7x-SE	80	525	27.7	14.6	2488	2274	171
		700	28.2	19.8	3249	2954	164
		1050	29.0	30.5	4809	4328	158
		1575	30.4	47.9	7109	6262	148
		2100	31.5	66.2	9157	7868	138
BXRC-27G40H0-B-7x-SE	90	450	33.1	14.9	2187	1998	147
		600	33.8	20.3	2873	2612	142
		900	34.8	31.3	4235	3812	135
		1350	36.5	49.2	6110	5382	124
		1800	37.8	68.1	7704	6619	113
BXRC-27G40H0-C-7x-SE	90	585	33.2	19.4	2844	2598	147
		780	33.8	26.4	3734	3395	142
		1170	34.8	40.7	5506	4955	135
		1755	36.5	64.1	7943	6997	124
		2340	37.9	88.8	10015	8605	113
BXRC-27G40H0-D-7x-SE	90	525	27.7	14.6	2131	1947	146
		700	28.2	19.8	2782	2529	141
		1050	29.0	30.5	4117	3706	135
		1575	30.4	47.9	6087	5362	127
		2100	31.5	66.2	7841	6737	118
BXRC-27G4000-B-7x-SE	90	450	33.1	14.9	2108	1926	141
		600	33.8	20.3	2768	2516	137
		900	34.8	31.3	4080	3672	130
		1350	36.5	49.2	5887	5186	120
		1800	37.8	68.1	7423	6378	109
BXRC-27G4000-C-7x-SE	90	585	33.2	19.4	2740	2503	141
		780	33.8	26.4	3598	3271	136
		1170	34.8	40.7	5305	4774	130
		1755	36.5	64.1	7653	6742	119
		2340	37.9	88.8	9649	8291	109
BXRC-27G4000-D-7x-SE	90	525	27.7	14.6	2053	1876	141
		700	28.2	19.8	2680	2437	136
		1050	29.0	30.5	3967	3570	130
		1575	30.4	47.9	5865	5166	122
		2100	31.5	66.2	7554	6491	114

Notes for Table 5:

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 5: 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)
BXRC-27H4000-B-7x-SE	80	450	33.1	14.9	1868	1707	125
		600	33.8	20.3	2453	2230	121
		900	34.8	31.3	3617	3255	115
		1350	36.5	49.2	5218	4597	106
		1800	37.8	68.1	6579	5653	97
BXRC-27H4000-C-7x-SE	80	585	33.2	19.4	2429	2219	125
		780	33.8	26.4	3189	2900	121
		1170	34.8	40.7	4702	4232	115
		1755	36.5	64.1	6783	5976	106
		2340	37.9	88.8	8553	7349	96
BXRC-27H4000-D-7x-SE	80	525	27.7	14.6	1820	1663	125
		700	28.2	19.8	2376	2160	120
		1050	29.0	30.5	3516	3165	115
		1575	30.4	47.9	5198	4579	108
		2100	31.5	66.2	6696	5753	101
BXRC-30C4001-B-74-SE	70	450	33.1	14.9	2842	2597	191
		600	33.8	20.3	3732	3393	184
		900	34.8	31.3	5502	4952	176
		1350	36.5	49.2	7939	6993	161
		1800	37.8	68.1	10009	8600	147
BXRC-30C4001-C-74-SE	70	585	33.2	19.4	3695	3375	190
		780	33.8	26.4	4852	4411	184
		1170	34.8	40.7	7153	6438	176
		1755	36.5	64.1	10320	9091	161
		2340	37.9	88.8	13012	11180	147
BXRC-30C4001-D-74-SE	70	525	27.7	14.6	2768	2529	190
		700	28.2	19.8	3614	3286	183
		1050	29.0	30.5	5350	4815	176
		1575	30.4	47.9	7908	6967	165
		2100	31.5	66.2	10187	8753	154
BXRC-30E4000-B-7x-SE	80	450	33.1	14.9	2714	2480	182
		600	33.8	20.3	3565	3241	176
		900	34.8	31.3	5255	4730	168
		1350	36.5	49.2	7582	6679	154
		1800	37.8	68.1	9559	8214	140
BXRC-30E4000-C-7x-SE	80	585	33.2	19.4	3529	3224	182
		780	33.8	26.4	4634	4213	176
		1170	34.8	40.7	6832	6149	168
		1755	36.5	64.1	9856	8683	154
		2340	37.9	88.8	12427	10678	140
BXRC-30E4000-D-7x-SE	80	525	27.7	14.6	2644	2416	182
		700	28.2	19.8	3452	3138	175
		1050	29.0	30.5	5109	4598	168
		1575	30.4	47.9	7553	6654	158
		2100	31.5	66.2	9729	8359	147

Notes for Table 5:

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 5: Product Performance at Commonly Used Drive Currents (Continued)

Part Number	CRI	Drive Current ¹ (mA)	Typical V_f $T_c = 25^\circ\text{C}$ (V)	Typical Power $T_c = 25^\circ\text{C}$ (W)	Typical Flux ² $T_c = 25^\circ\text{C}$ (lm)	Typical DC Flux ³ $T_c = 85^\circ\text{C}$ (lm)	Typical Efficacy $T_c = 25^\circ\text{C}$ (lm/W)
BXRC-30G40H0-B-7x-SE	90	450	33.1	14.9	2299	2101	154
		600	33.8	20.3	3019	2745	149
		900	34.8	31.3	4451	4006	142
		1350	36.5	49.2	6422	5657	130
		1800	37.8	68.1	8097	6957	119
BXRC-30G40H0-C-7x-SE	90	585	33.2	19.4	2989	2731	154
		780	33.8	26.4	3925	3569	149
		1170	34.8	40.7	5787	5208	142
		1755	36.5	64.1	8349	7355	130
		2340	37.9	88.8	10527	9045	119
BXRC-30G40H0-D-7x-SE	90	525	27.7	14.6	2240	2046	154
		700	28.2	19.8	2924	2658	148
		1050	29.0	30.5	4328	3895	142
		1575	30.4	47.9	6398	5636	133
		2100	31.5	66.2	8241	7081	124
BXRC-30G4000-B-7x-SE	90	450	33.1	14.9	2203	2013	148
		600	33.8	20.3	2894	2631	143
		900	34.8	31.3	4266	3839	136
		1350	36.5	49.2	6155	5422	125
		1800	37.8	68.1	7760	6667	114
BXRC-30G4000-C-7x-SE	90	585	33.2	19.4	2864	2617	148
		780	33.8	26.4	3762	3420	143
		1170	34.8	40.7	5546	4991	136
		1755	36.5	64.1	8001	7048	125
		2340	37.9	88.8	10088	8668	114
BXRC-30G4000-D-7x-SE	90	525	27.7	14.6	2146	1961	147
		700	28.2	19.8	2802	2548	142
		1050	29.0	30.5	4147	3733	136
		1575	30.4	47.9	6131	5401	128
		2100	31.5	66.2	7898	6786	119
BXRC-30G400C-B-7x-SE	90	450	33.1	14.9	2124	1940	142
		600	33.8	20.3	2789	2535	138
		900	34.8	31.3	4111	3700	131
		1350	36.5	49.2	5932	5225	121
		1800	37.8	68.1	7479	6426	110
BXRC-30G400C-D-7x-SE	90	525	27.7	14.6	2065	1886	142
		700	28.2	19.8	2711	2465	137
		1050	29.0	30.5	3997	3597	131
		1575	30.4	47.9	5767	5080	120
		2100	31.5	66.2	7271	6247	110
BXRC-30H4000-B-7x-SE	80	450	33.1	14.9	1996	1823	134
		600	33.8	20.3	2621	2383	129
		900	34.8	31.3	3864	3478	123
		1350	36.5	49.2	5575	4911	113
		1800	37.8	68.1	7029	6039	103

Notes for Table 5:

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 5: Product Performance at Commonly Used Drive Currents (Continued)

Part Number	CRI	Drive Current ¹ (mA)	Typical V_f $T_c = 25^\circ\text{C}$ (V)	Typical Power $T_c = 25^\circ\text{C}$ (W)	Typical Flux ² $T_c = 25^\circ\text{C}$ (lm)	Typical DC Flux ³ $T_c = 85^\circ\text{C}$ (lm)	Typical Efficacy $T_c = 25^\circ\text{C}$ (lm/W)
BXRC-30H4000-C-7x-SE	80	585	33.2	19.4	2595	2370	134
		780	33.8	26.4	3407	3098	129
		1170	34.8	40.7	5023	4521	123
		1755	36.5	64.1	7247	6384	113
		2340	37.9	88.8	9138	7851	103
BXRC-30H4000-D-7x-SE	80	525	27.7	14.6	1944	1776	134
		700	28.2	19.8	2538	2308	128
		1050	29.0	30.5	3757	3381	123
		1575	30.4	47.9	5554	4892	116
		2100	31.5	66.2	7154	6147	108
BXRC-30A4001-B-7x-SE	93	450	33.1	14.9	1980	1809	133
		600	33.8	20.3	2600	2364	128
		900	34.8	31.3	3833	3450	122
		1350	36.5	49.2	5530	4872	112
		1800	37.8	68.1	6973	5991	102
BXRC-30A4001-C-7x-SE	93	585	33.2	19.4	2574	2351	133
		780	33.8	26.4	3380	3073	128
		1170	34.8	40.7	4983	4485	122
		1755	36.5	64.1	7189	6333	112
		2340	37.9	88.8	9065	7788	102
BXRC-30A4001-D-7x-SE	93	525	27.7	14.6	1929	1762	132
		700	28.2	19.8	2518	2289	127
		1050	29.0	30.5	3727	3354	122
		1575	30.4	47.9	5509	4853	115
		2100	31.5	66.2	7097	6097	107
BXRC-35E4000-B-7x-SE	80	450	33.1	14.9	2778	2538	186
		600	33.8	20.3	3649	3317	180
		900	34.8	31.3	5379	4841	172
		1350	36.5	49.2	7760	6836	158
		1800	37.8	68.1	9784	8407	144
BXRC-35E4000-C-7x-SE	80	585	33.2	19.4	3612	3300	186
		780	33.8	26.4	4743	4312	180
		1170	34.8	40.7	6992	6293	172
		1755	36.5	64.1	10088	8887	157
		2340	37.9	88.8	12720	10929	143
BXRC-35E4000-D-7x-SE	80	525	27.7	14.6	2706	2472	186
		700	28.2	19.8	3533	3212	179
		1050	29.0	30.5	5229	4706	172
		1575	30.4	47.9	7731	6810	161
		2100	31.5	66.2	9958	8556	150
BXRC-35G4000-B-7x-SE	90	450	33.1	14.9	2283	2086	153
		600	33.8	20.3	2998	2726	148
		900	34.8	31.3	4421	3978	141
		1350	36.5	49.2	6378	5618	130
		1800	37.8	68.1	8041	6909	118

Notes for Table 5:

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 5: Product Performance at Commonly Used Drive Currents (Continued)

Part Number	CRI	Drive Current ¹ (mA)	Typical V_f $T_c = 25^\circ\text{C}$ (V)	Typical Power $T_c = 25^\circ\text{C}$ (W)	Typical Flux ² $T_c = 25^\circ\text{C}$ (lm)	Typical DC Flux ³ $T_c = 85^\circ\text{C}$ (lm)	Typical Efficacy $T_c = 25^\circ\text{C}$ (lm/W)
BXRC-35G4000-C-7x-SE	90	585	33.2	19.4	2968	2712	153
		780	33.8	26.4	3898	3544	148
		1170	34.8	40.7	5747	5172	141
		1755	36.5	64.1	8291	7304	129
		2340	37.9	88.8	10453	8982	118
BXRC-35G4000-D-7x-SE	90	525	27.7	14.6	2224	2032	153
		700	28.2	19.8	2904	2640	147
		1050	29.0	30.5	4298	3868	141
		1575	30.4	47.9	6353	5597	133
		2100	31.5	66.2	8184	7032	124
BXRC-35A4001-B-7x-SE	93	450	33.1	14.9	2108	1926	141
		600	33.8	20.3	2768	2516	137
		900	34.8	31.3	4080	3672	130
		1350	36.5	49.2	5887	5186	120
		1800	37.8	68.1	7423	6378	109
BXRC-35A4001-C-7x-SE	93	585	33.2	19.4	2740	2503	141
		780	33.8	26.4	3598	3271	136
		1170	34.8	40.7	5305	4774	130
		1755	36.5	64.1	7653	6742	119
		2340	37.9	88.8	9649	8291	109
BXRC-35A4001-D-7x-SE	93	525	27.7	14.6	2053	1876	141
		700	28.2	19.8	2680	2437	136
		1050	29.0	30.5	3967	3570	130
		1575	30.4	47.9	5865	5166	122
		2100	31.5	66.2	7554	6491	114
BXRC-40C4001-B-7x-SE	70	450	33.1	14.9	2922	2669	196
		600	33.8	20.3	3837	3489	189
		900	34.8	31.3	5657	5091	181
		1350	36.5	49.2	8161	7190	166
		1800	37.8	68.1	10290	8842	151
BXRC-40C4001-C-7x-SE	70	585	33.2	19.4	3798	3470	196
		780	33.8	26.4	4988	4535	189
		1170	34.8	40.7	7354	6619	181
		1755	36.5	64.1	10610	9347	165
		2340	37.9	88.8	13377	11494	151
BXRC-40C4001-D-7x-SE	70	525	27.7	14.6	2846	2600	195
		700	28.2	19.8	3716	3378	188
		1050	29.0	30.5	5500	4950	181
		1575	30.4	47.9	8131	7163	170
		2100	31.5	66.2	10473	8999	158
BXRC-40E4000-B-7x-SE	80	450	33.1	14.9	2794	2553	187
		600	33.8	20.3	3669	3336	181
		900	34.8	31.3	5410	4869	173
		1350	36.5	49.2	7805	6875	159
		1800	37.8	68.1	9841	8455	145

Notes for Table 5:

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 5: Product Performance at Commonly Used Drive Currents (Continued)

Part Number	CRI	Drive Current ¹ (mA)	Typical V_f $T_c = 25^\circ\text{C}$ (V)	Typical Power $T_c = 25^\circ\text{C}$ (W)	Typical Flux ² $T_c = 25^\circ\text{C}$ (lm)	Typical DC Flux ³ $T_c = 85^\circ\text{C}$ (lm)	Typical Efficacy $T_c = 25^\circ\text{C}$ (lm/W)
BXRC-40E4000-C-7x-SE	80	585	33.2	19.4	3632	3319	187
		780	33.8	26.4	4770	4337	181
		1170	34.8	40.7	7033	6329	173
		1755	36.5	64.1	10146	8938	158
		2340	37.9	88.8	12793	10992	144
BXRC-40E4000-D-7x-SE	80	525	27.7	14.6	2722	2487	187
		700	28.2	19.8	3553	3231	180
		1050	29.0	30.5	5259	4734	173
		1575	30.4	47.9	7775	6849	162
		2100	31.5	66.2	10015	8605	151
BXRC-40G4000-B-7x-SE	90	450	33.1	14.9	2331	2130	156
		600	33.8	20.3	3061	2783	151
		900	34.8	31.3	4513	4062	144
		1350	36.5	49.2	6511	5736	132
		1800	37.8	68.1	8210	7054	121
BXRC-40G4000-C-7x-SE	90	585	33.2	19.4	3030	2769	156
		780	33.8	26.4	3980	3618	151
		1170	34.8	40.7	5867	5281	144
		1755	36.5	64.1	8465	7457	132
		2340	37.9	88.8	10673	9170	120
BXRC-40G4000-D-7x-SE	90	525	27.7	14.6	2271	2075	156
		700	28.2	19.8	2965	2695	150
		1050	29.0	30.5	4388	3949	144
		1575	30.4	47.9	6487	5714	135
		2100	31.5	66.2	8356	7179	126
BXRC-40H4000-B-7x-SE	97	450	33.1	14.9	2108	1926	141
		600	33.8	20.3	2768	2516	137
		900	34.8	31.3	4080	3672	130
		1350	36.5	49.2	5887	5186	120
		1800	37.8	68.1	7423	6378	109
BXRC-40H4000-C-7x-SE	97	585	33.2	19.4	2740	2503	141
		780	33.8	26.4	3598	3271	136
		1170	34.8	40.7	5305	4774	130
		1755	36.5	64.1	7653	6742	119
		2340	37.9	88.8	9649	8291	109
BXRC-40H4000-D-7x-SE	97	525	27.7	14.6	2053	1876	141
		700	28.2	19.8	2680	2437	136
		1050	29.0	30.5	3967	3570	130
		1575	30.4	47.9	5865	5166	122
		2100	31.5	66.2	7554	6491	114
BXRC-40A4001-B-7x-SE	93	450	33.1	14.9	2283	2086	153
		600	33.8	20.3	2998	2726	148
		900	34.8	31.3	4421	3978	141
		1350	36.5	49.2	6378	5618	130
		1800	37.8	68.1	8041	6909	118

Notes for Table 5:

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 5: 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)
BXRC-40A4001-C-7x-SE	93	585	33.2	19.4	2968	2712	153
		780	33.8	26.4	3898	3544	148
		1170	34.8	40.7	5747	5172	141
		1755	36.5	64.1	8291	7304	129
		2340	37.9	88.8	10453	8982	118
BXRC-40A4001-D-7x-SE	93	525	27.7	14.6	2224	2032	153
		700	28.2	19.8	2904	2640	147
		1050	29.0	30.5	4298	3868	141
		1575	30.4	47.9	6353	5597	133
		2100	31.5	66.2	8184	7032	124
BXRC-50C4001-B-7x-SE	70	450	33.1	14.9	2938	2684	197
		600	33.8	20.3	3858	3508	191
		900	34.8	31.3	5688	5119	182
		1350	36.5	49.2	8206	7229	167
		1800	37.8	68.1	10347	8890	152
BXRC-50C4001-C-7x-SE	70	585	33.2	19.4	3819	3489	197
		780	33.8	26.4	5016	4560	190
		1170	34.8	40.7	7394	6655	182
		1755	36.5	64.1	10668	9398	166
		2340	37.9	88.8	13451	11557	152
BXRC-50C4001-D-7x-SE	70	525	27.7	14.6	2862	2615	197
		700	28.2	19.8	3736	3397	189
		1050	29.0	30.5	5530	4977	182
		1575	30.4	47.9	8175	7202	171
		2100	31.5	66.2	10530	9048	159
BXRC-50E4001-B-7x-SE	80	450	33.1	14.9	2826	2582	189
		600	33.8	20.3	3711	3374	183
		900	34.8	31.3	5472	4924	175
		1350	36.5	49.2	7894	6954	160
		1800	37.8	68.1	9953	8552	146
BXRC-50E4001-C-7x-SE	80	585	33.2	19.4	3674	3357	189
		780	33.8	26.4	4825	4387	183
		1170	34.8	40.7	7113	6402	175
		1755	36.5	64.1	10262	9040	160
		2340	37.9	88.8	12939	11117	146
BXRC-50E4001-D-7x-SE	80	525	27.7	14.6	2753	2515	189
		700	28.2	19.8	3594	3268	182
		1050	29.0	30.5	5320	4788	175
		1575	30.4	47.9	7864	6928	164
		2100	31.5	66.2	10130	8704	153
BXRC-50G4001-B-7x-SE	90	450	33.1	14.9	2443	2232	164
		600	33.8	20.3	3208	2917	158
		900	34.8	31.3	4730	4257	151
		1350	36.5	49.2	6824	6011	139
		1800	37.8	68.1	8603	7392	126

Notes for Table 5:

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 5: Product Performance at Commonly Used Drive Currents (Continued)

Part Number	CRI	Drive Current ¹ (mA)	Typical V_f $T_c = 25^\circ\text{C}$ (V)	Typical Power $T_c = 25^\circ\text{C}$ (W)	Typical Flux ² $T_c = 25^\circ\text{C}$ (lm)	Typical DC Flux ³ $T_c = 85^\circ\text{C}$ (lm)	Typical Efficacy $T_c = 25^\circ\text{C}$ (lm/W)
BXRC-50G4001-C-7x-SE	90	585	33.2	19.4	3176	2901	164
		780	33.8	26.4	4171	3792	158
		1170	34.8	40.7	6149	5534	151
		1755	36.5	64.1	8871	7814	138
		2340	37.9	88.8	11184	9610	126
BXRC-50G4001-D-7x-SE	90	525	27.7	14.6	2380	2174	163
		700	28.2	19.8	3107	2824	157
		1050	29.0	30.5	4598	4138	151
		1575	30.4	47.9	6798	5988	142
		2100	31.5	66.2	8756	7524	132
BXRC-56G4000-B-7x-SE	80	450	33.1	14.9	2459	2246	165
		600	33.8	20.3	3229	2936	159
		900	34.8	31.3	4761	4285	152
		1350	36.5	49.2	6868	6050	140
		1800	37.8	68.1	8660	7441	127
BXRC-56G4000-C-7x-SE	80	585	33.2	19.4	3196	2920	165
		780	33.8	26.4	4198	3817	159
		1170	34.8	40.7	6189	5570	152
		1755	36.5	64.1	8929	7865	139
		2340	37.9	88.8	11258	9673	127
BXRC-56G400x-D-7x-SE	80	525	27.7	14.6	2395	2188	165
		700	28.2	19.8	3127	2843	158
		1050	29.0	30.5	4628	4166	152
		1575	30.4	47.9	6842	6027	143
		2100	31.5	66.2	8813	7573	133
BXRC-56H4000-D-7x-SE	97	525	27.7	14.6	2162	1975	148
		700	28.2	19.8	2822	2566	143
		1050	29.0	30.5	4178	3760	137
		1575	30.4	47.9	6176	5440	129
		2100	31.5	66.2	7955	6835	120
BXRC-57C4001-B-7x-SE	70	450	33.1	14.9	2858	2611	192
		600	33.8	20.3	3753	3412	185
		900	34.8	31.3	5533	4980	177
		1350	36.5	49.2	7983	7033	162
		1800	37.8	68.1	10065	8648	148
BXRC-57C4001-C-7x-SE	70	585	33.2	19.4	3715	3394	191
		780	33.8	26.4	4879	4436	185
		1170	34.8	40.7	7193	6474	177
		1755	36.5	64.1	10378	9142	162
		2340	37.9	88.8	13085	11243	147
BXRC-57C4001-D-7x-SE	70	525	27.7	14.6	2784	2544	191
		700	28.2	19.8	3635	3304	184
		1050	29.0	30.5	5380	4842	177
		1575	30.4	47.9	7953	7006	166
		2100	31.5	66.2	10244	8802	155

Notes for Table 5:

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 5: 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)
BXRC-57E4001-B-7x-SE	80	450	33.1	14.9	2714	2480	182
		600	33.8	20.3	3565	3241	176
		900	34.8	31.3	5255	4730	168
		1350	36.5	49.2	7582	6679	154
		1800	37.8	68.1	9559	8214	140
BXRC-57E4001-C-7x-SE	80	585	33.2	19.4	3529	3224	182
		780	33.8	26.4	4634	4213	176
		1170	34.8	40.7	6832	6149	168
		1755	36.5	64.1	9856	8683	154
		2340	37.9	88.8	12427	10678	140
BXRC-57E4001-D-7x-SE	80	525	27.7	14.6	2644	2416	182
		700	28.2	19.8	3452	3138	175
		1050	29.0	30.5	5109	4598	168
		1575	30.4	47.9	7553	6654	158
		2100	31.5	66.2	9729	8359	147
BXRC-65C4001-B-7x-SE	70	450	33.1	14.9	2858	2611	192
		600	33.8	20.3	3753	3412	185
		900	34.8	31.3	5533	4980	177
		1350	36.5	49.2	7983	7033	162
		1800	37.8	68.1	10065	8648	148
BXRC-65C4001-C-7x-SE	70	585	33.2	19.4	3715	3394	191
		780	33.8	26.4	4879	4436	185
		1170	34.8	40.7	7193	6474	177
		1755	36.5	64.1	10378	9142	162
		2340	37.9	88.8	13085	11243	147
BXRC-65C4001-D-7x-SE	70	525	27.7	14.6	2784	2544	191
		700	28.2	19.8	3635	3304	184
		1050	29.0	30.5	5380	4842	177
		1575	30.4	47.9	7953	7006	166
		2100	31.5	66.2	10244	8802	155
BXRC-65E4001-B-7x-SE	80	450	33.1	14.9	2746	2509	184
		600	33.8	20.3	3607	3279	178
		900	34.8	31.3	5317	4785	170
		1350	36.5	49.2	7671	6758	156
		1800	37.8	68.1	9672	8310	142
BXRC-65E4001-C-7x-SE	80	585	33.2	19.4	3570	3262	184
		780	33.8	26.4	4689	4263	178
		1170	34.8	40.7	6912	6221	170
		1755	36.5	64.1	9972	8785	155
		2340	37.9	88.8	12573	10803	142
BXRC-65E4001-D-7x-SE	80	525	27.7	14.6	2675	2444	184
		700	28.2	19.8	3492	3175	177
		1050	29.0	30.5	5169	4652	170
		1575	30.4	47.9	7642	6732	159
		2100	31.5	66.2	9844	8458	149

Notes for Table 5:

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 6: 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)
BXRC-xxx400x-B-7x-SE	900	32.2	34.8	37.4	-14.9	0.15	31.0	38.4
	1800	35.0	37.8	40.6	-14.9	0.19	33.8	41.6
BXRC-xxx400x-C-7x-SE	1170	32.2	34.8	37.4	-14.9	0.11	31.0	38.4
	2340	35.0	37.8	40.6	-14.9	0.13	33.8	41.6
BXRC-xxx400x-D-7x-SE	1050	26.8	29.0	31.2	-12.2	0.16	25.8	32.0
	2100	29.2	31.5	33.9	-12.2	0.19	28.2	34.7

Notes for Table 6:

- 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 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.

Eye Safety

Table 7: Eye Safety Risk Group (RG) Classifications

Part Number	Drive Current ⁵ (mA)	CCT ^{1,5}			
		2700K/3000K	4000K ²	5000K ³	6500K ⁴
BXRC-xxx400x-B-7x-SE	900	RG1	RG1	RG1	RG1
	1350	RG1	RG1	RG1	RG2
	1800	RG1	RG1	RG2	RG2
BXRC-xxx400x-C-7x-SE	1170	RG1	RG1	RG1	RG1
	1755	RG1	RG1	RG2	RG2
	2340	RG1	RG1	RG2	RG2
BXRC-xxx400x-D-7x-SE	1050	RG1	RG1	RG1	RG1
	1575	RG1	RG1	RG1	RG2
	2100	RG1	RG1	RG2	RG2

Notes for Table 7:

1. 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 4000K, $E_{thr} = 1847.5$ lx.
3. For products classified as RG2 at 5000K $E_{thr} = 1315.8$ lx.
4. For products classified as RG2 at 6500K, $E_{thr} = 1124.5$ lx.
5. Please contact your Bridgelux sales representative for E_{thr} values at specific drive currents and CCTs not listed.

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		
	BXRC-xxx400x-B-7x-SE	BXRC-xxx400x-C-7x-SE	BXRC-xxx400x-D-7x-SE
Maximum Drive Current ³	1800mA	2340mA	2100mA
Maximum Peak Pulsed Drive Current ⁴	2570mA	3340mA	3000mA
Maximum Reverse Voltage ⁵	-60V	-60V	-50V

Notes for Table 8:

1. For IEC 62717 requirement, please consult your Bridgelux sales representative.
2. Refer to Bridgelux Application Note AN120: Assembly Considerations for Bridgelux Vero SE LED Arrays.
3. Arrays may be driven at higher currents however lumen maintenance may be reduced.
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: Vero SE 18B Drive Current vs. Voltage

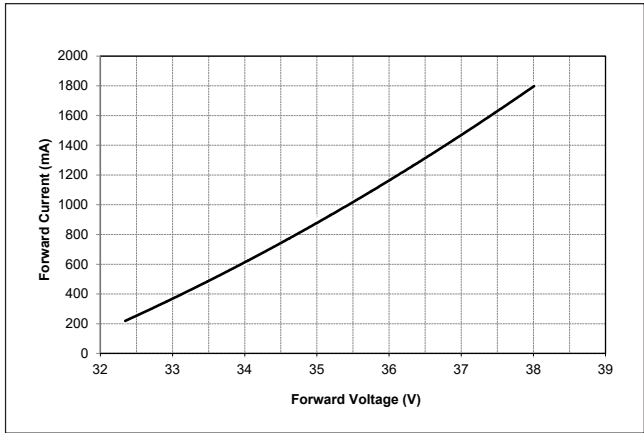


Figure 2: Vero SE 18C Drive Current vs. Voltage

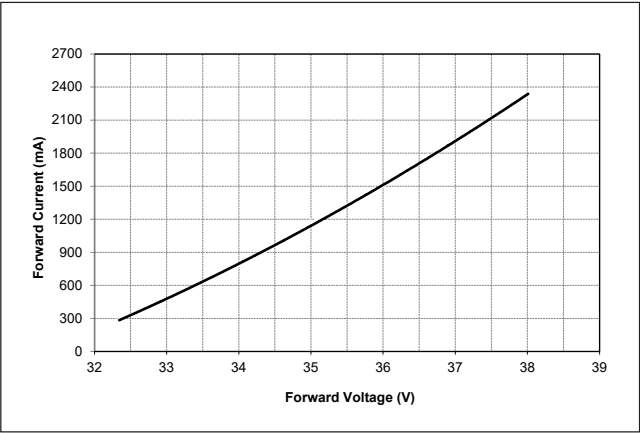


Figure 3: Vero SE 18D Drive Current vs. Voltage

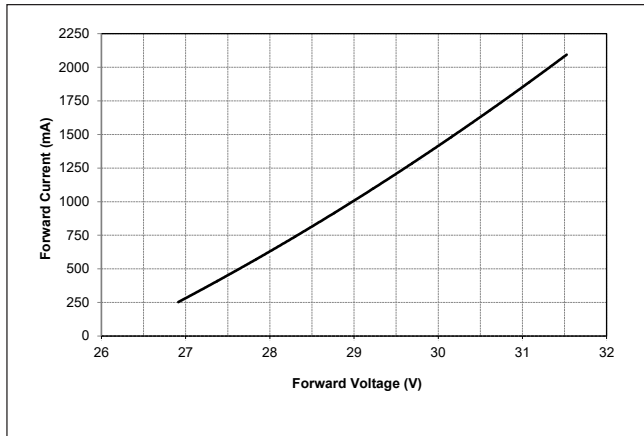


Figure 4: Vero SE 18B Typical Relative Flux vs. Current

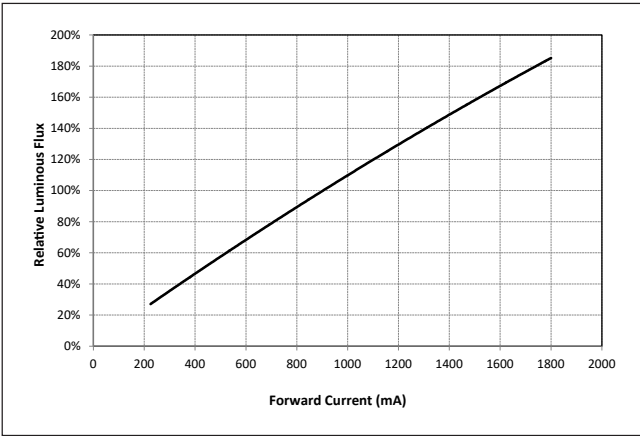


Figure 5: Vero SE 18C Typical Relative Flux vs. Current

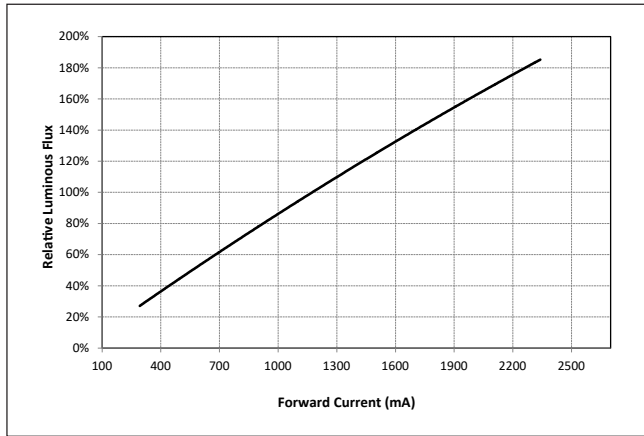
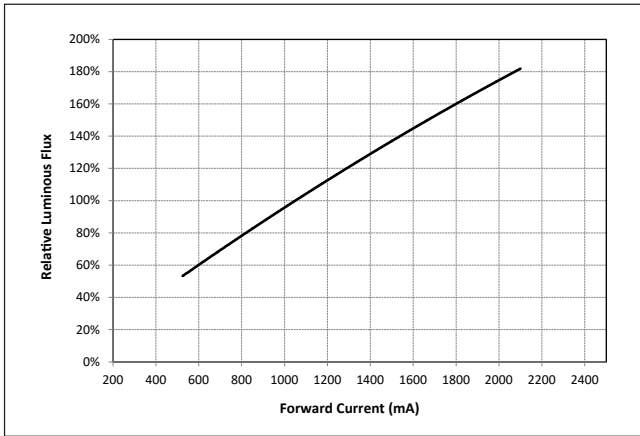


Figure 6: Vero SE 18D Typical Relative Flux vs. Current



- 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. Products tested under pulsed condition (10ms pulse width) at nominal test current where T_j (junction temperature) = T_c (case temperature) = 25°C.

Performance Curves

Figure 7: Typical DC Flux vs. Case Temperature

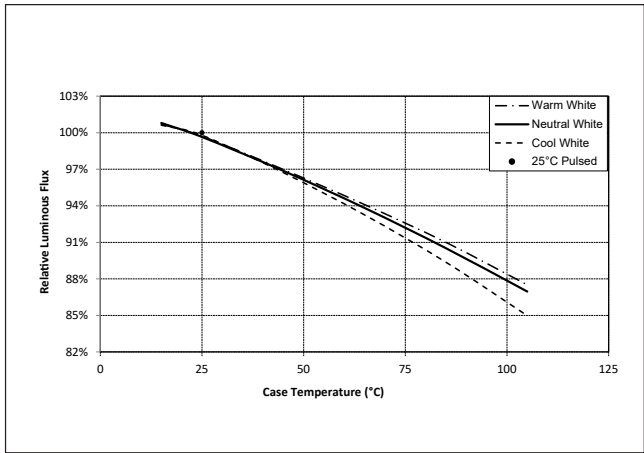


Figure 8: Typical DC ccy Shift vs. Case Temperature

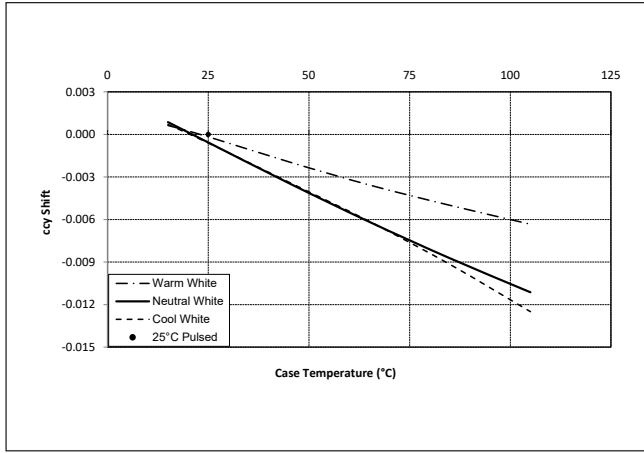
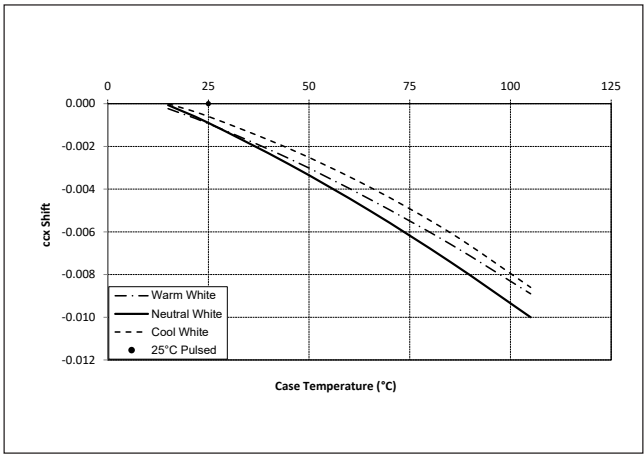


Figure 9: Typical DC ccx Shift vs. Case Temperature



Notes for Figures 7-9:

1. Characteristics shown for warm white based on 3000K and 80 CRI.
2. Characteristics shown for neutral white based on 4000K and 80 CRI.
3. Characteristics shown for cool white based on 5000K and 70 CRI.
4. For other color SKUs, the shift in color will vary. Please contact your Bridgelux Sales Representative for more information.

Performance Curves

Figure 10: 1750K Color Shift vs. Case Temperature¹

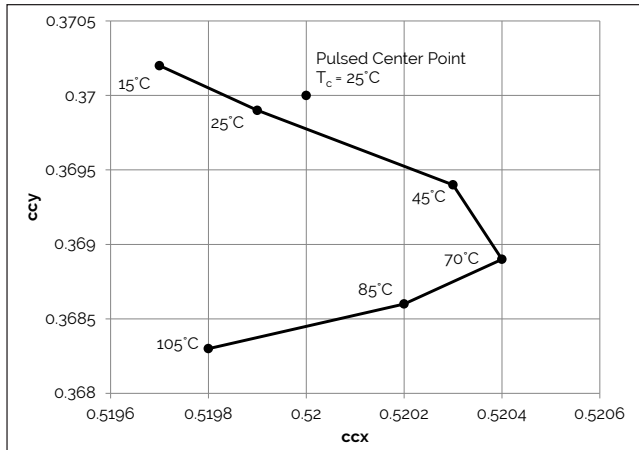


Figure 11: 2000K, 65 CRI Color Shift vs. Case Temperature¹

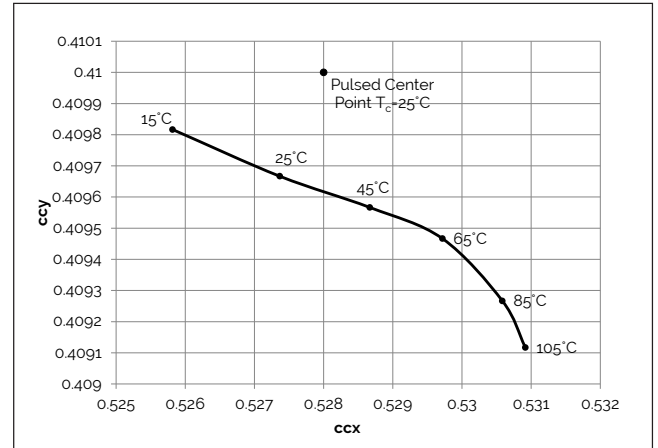


Figure 12: 2500K Color Shift vs. Case Temperature¹

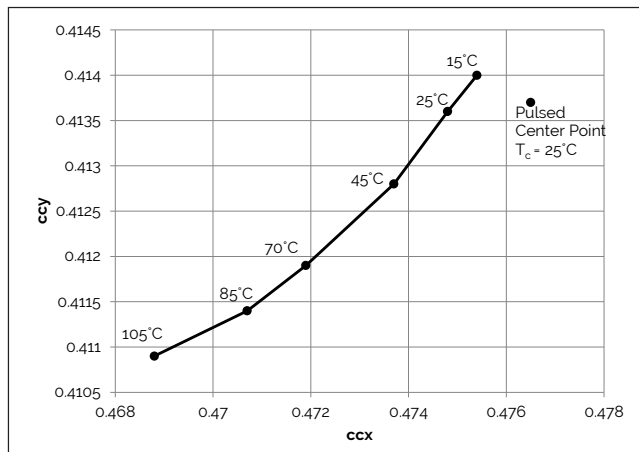


Figure 13: 3000K, 90 CRI Color Shift vs. Case Temperature^{1,3,4}

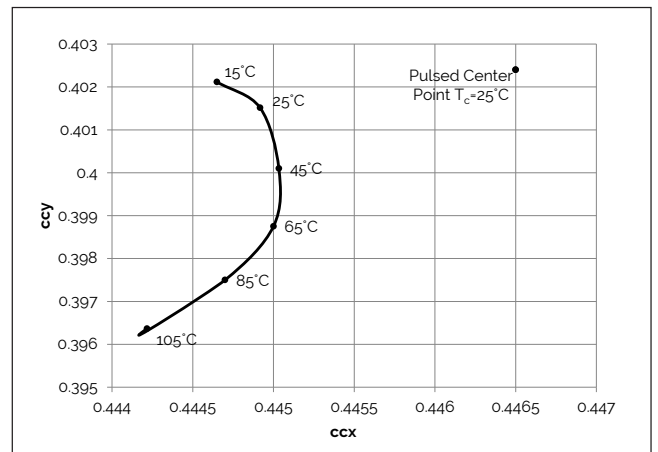


Figure 14: 2700K, 97 CRI Color Shift vs. Case Temperature¹

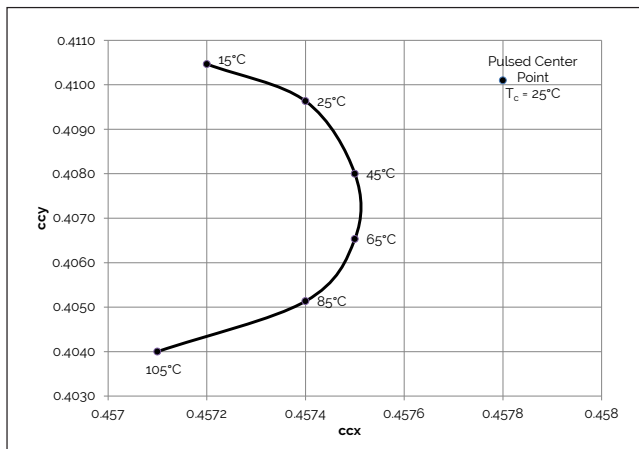
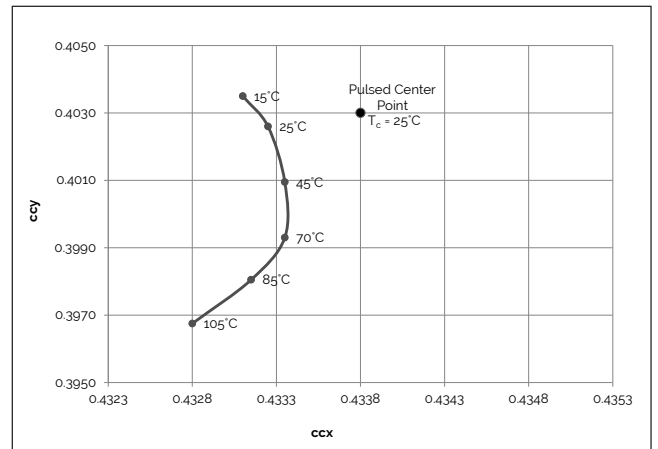


Figure 15: 3000K, 97 CRI Color Shift vs. Case Temperature¹



Notes for Figures 10-15:

1. Measurements made under DC test conditions at the nominal drive current.
2. Typical color shift is shown with a tolerance of ± 0.002 .
3. Characteristics shown for Decor Series Showcase products, BXRC-30G400C-x-73-SE
4. Color shift shown for product hot targeted at $T_c = 85^\circ\text{C}$

Performance Curves

Figure 16: 5600K Color Shift vs. Case Temperature¹

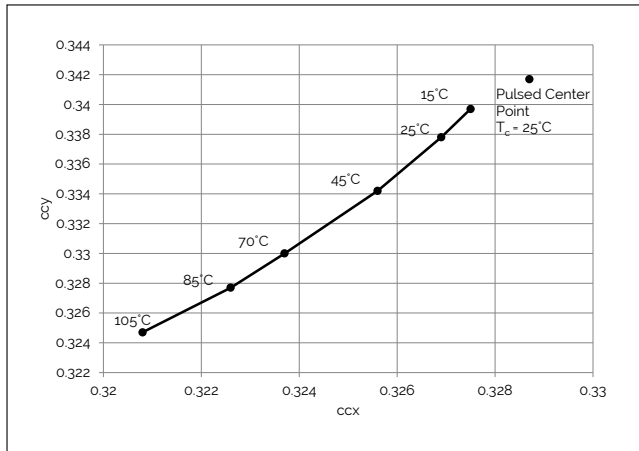


Figure 17: 3000K Class A Color Shift vs. Case Temperature¹

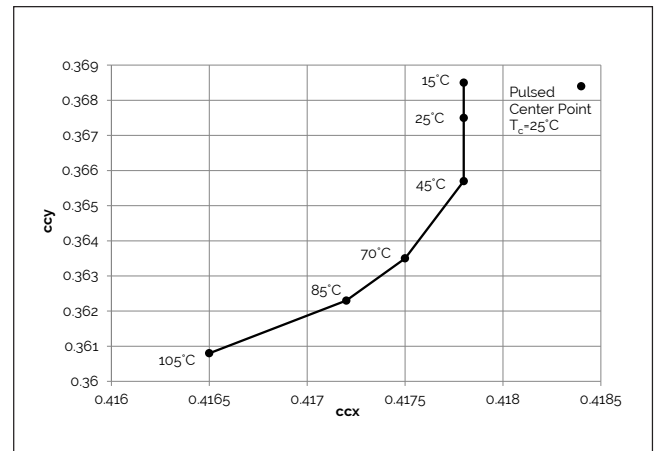


Figure 18: 3500K Class A Color Shift vs. Case Temperature¹

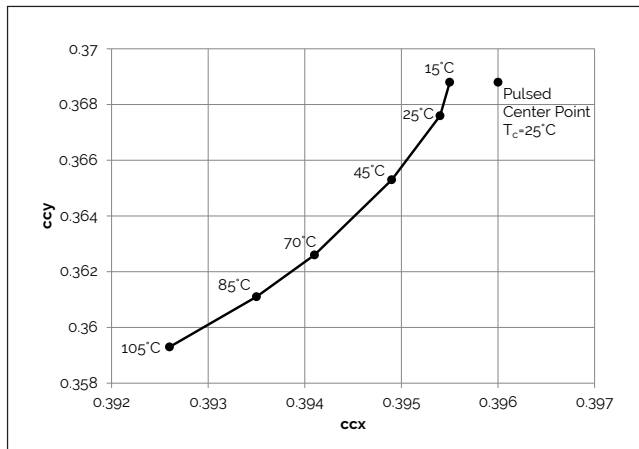
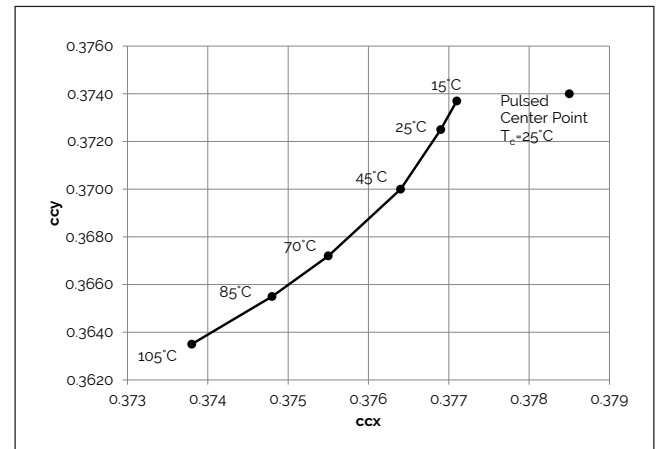


Figure 19: 4000K Class A Color Shift vs. Case Temperature¹

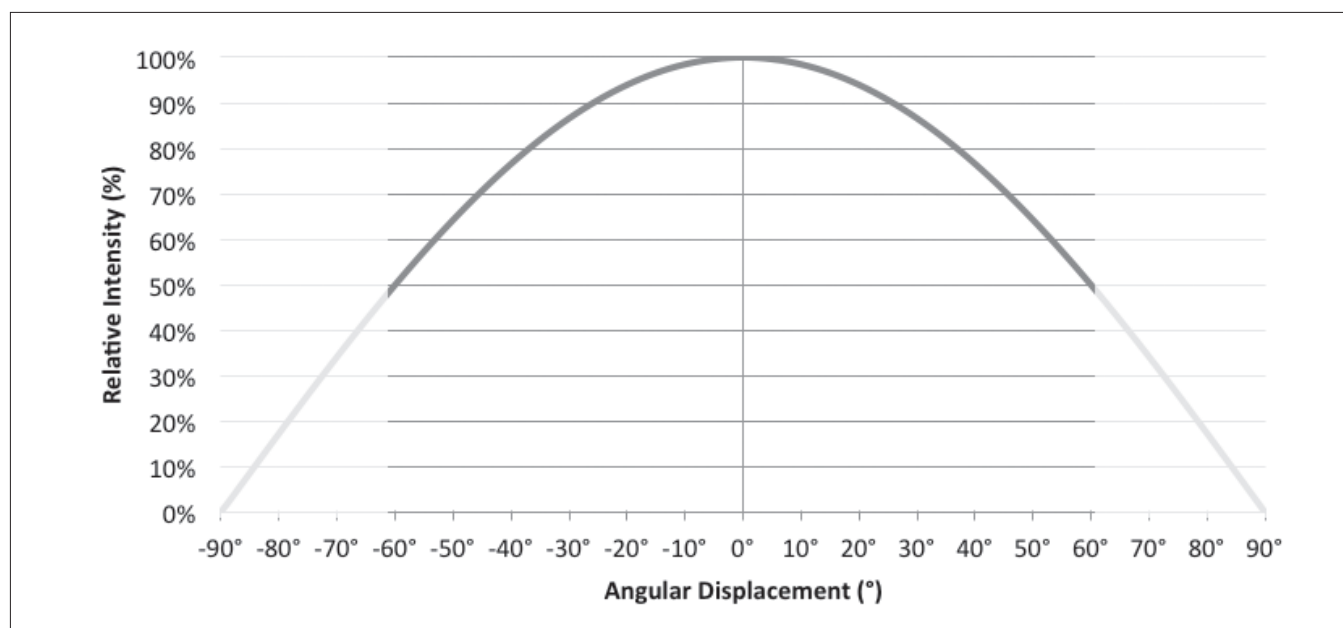


Notes for Figures 16-19:

1. Measurements made under DC test conditions at the nominal drive current.
2. Typical color shift is shown with a tolerance of ± 0.002 .

Typical Radiation Pattern

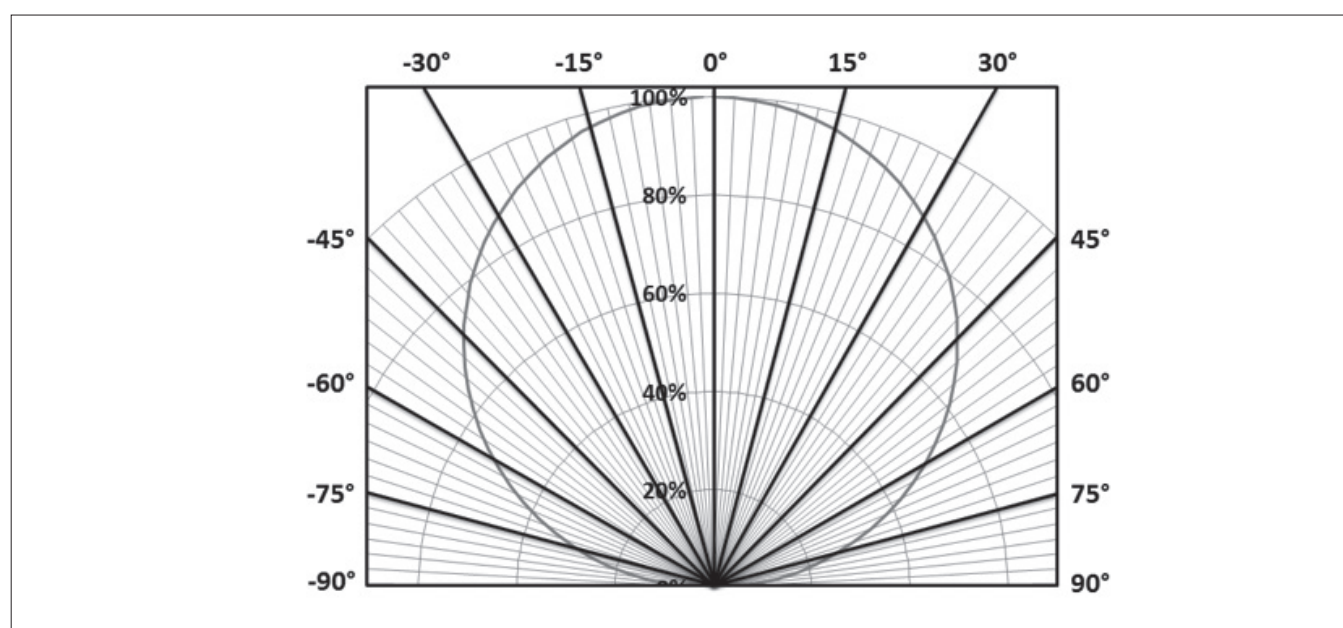
Figure 20: Typical Spatial Radiation Pattern



Notes for Figure 20:

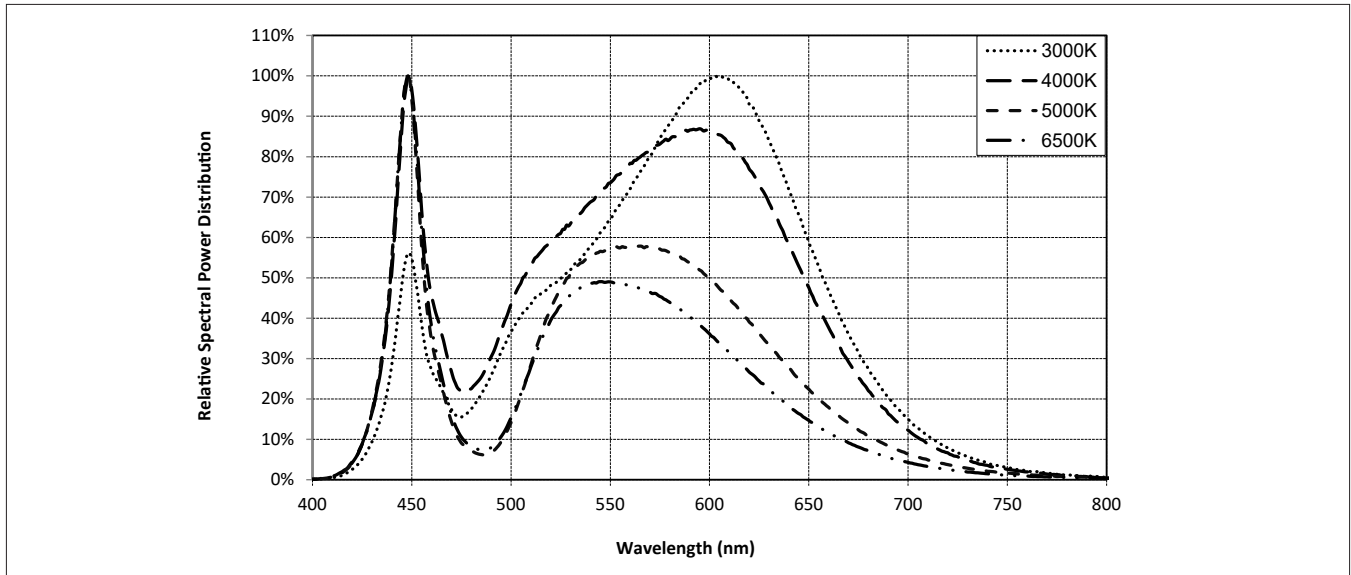
1. Typical viewing angle is 120°.
2. The viewing angle is defined as the off axis angle from the centerline where intensity is $\frac{1}{2}$ of the peak value.

Figure 21: Typical Polar Radiation Pattern



Typical Color Spectrum

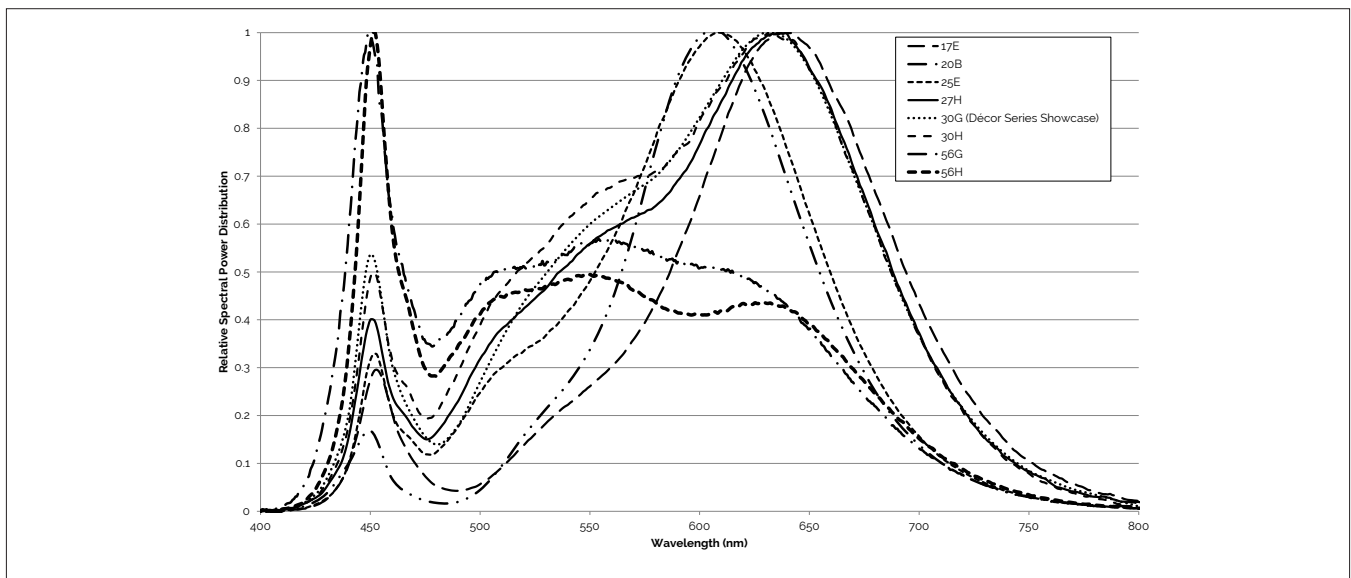
Figure 22: Typical Color Spectrum



Notes for Figure 22:

1. Color spectra measured at nominal current for $T_j = T_c = 25^\circ\text{C}$.
2. Color spectra shown is 3000K and 80 CRI.
3. Color spectra shown is 4000K and 80 CRI.
4. Color spectra shown is 5000K and 70 CRI.
4. Color spectra shown is 6500K and 70 CRI.

Figure 23: Typical Color Spectrum for Vero SE 18 with Décor Series

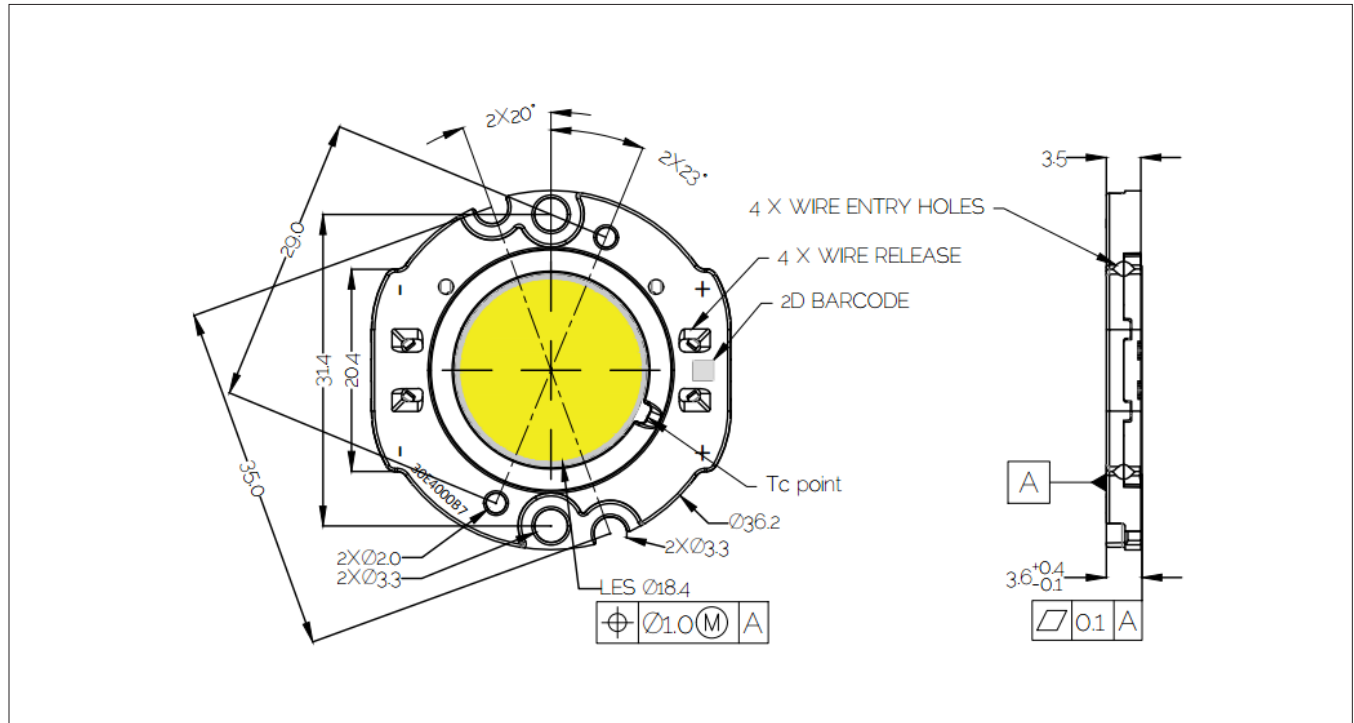


Note for Figure 23:

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

Mechanical Dimensions

Figure 24: Drawing for Vero SE 18 LED Array

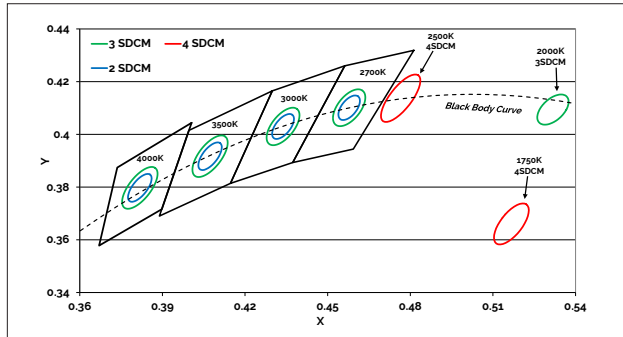


Notes for Figure 24:

1. Drawings are not to scale.
2. Drawing dimensions are in millimeters.
3. Unless otherwise specified, tolerances are $\pm 0.1\text{mm}$.
4. Mounting holes (2X) are for M3 screws.
5. Bridgelux recommends two tapped holes for mounting screws with $31.4 \pm 0.10\text{mm}$ 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 $\pm 0.2\text{mm}$.
8. Bridgelux maintains a flatness of 0.10mm across the mounting surface of the array.

Color Binning Information

Figure 25: Warm and Neutral White Test Bins in xy Color Space



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

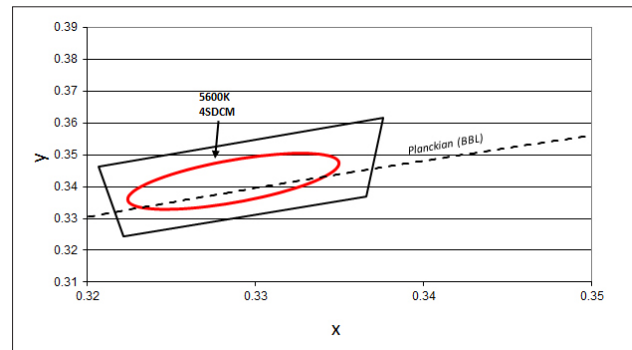
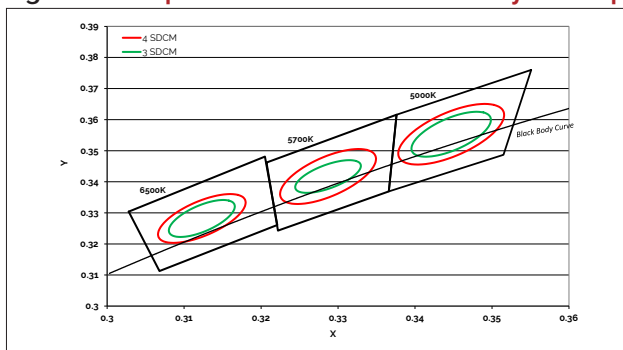
Table 9: Warm and Neutral White xy Bin Coordinates and Associated Typical CCT

Bin Code	1750K	2000K	2500K	2700K	3000K ¹	3500K ¹	4000K ¹
ANSI Bin (for reference only)	—	—	—	(2580K - 2870K)	(2870K - 3220K)	(3220K - 3710K)	(3710K - 4260K)
73 (3 SDCM)	—	—	—	(2651K - 2794K)	(2968K - 3136K)	(3369K - 3586K)	(3851K - 4130K)
72 (2 SDCM)	—	—	—	(2674K - 2769K)	(2995K - 3107K)	(3404K - 3548K)	(3895K - 4081K)
Center Point (x,y)	(0.5167, 0.366)	(0.5280, 0.4100)	(0.4765, 0.4137)	(0.4578, 0.4101)	(0.4338, 0.403) (0.4465, 0.4024) ²	(0.4073, 0.3917)	(0.3818, 0.3797)

Note for Table 9:

- Color Binning information excludes Decor Series Class A products. Please contact your Bridgelux Sales Representative for more information.
- Center Point for Decor Series Showcase.
- Bridgelux maintains a tolerance of +/- 0.007 on x and y color coordinates in the CIE 1931 color Space.

Figure 26: Graph of Cool White Test Bins in xy Color Space



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

Table 10: Cool White xy Bin Coordinates and Associated Typical CCT (product is hot targeted to $T_c = 85^\circ\text{C}$)

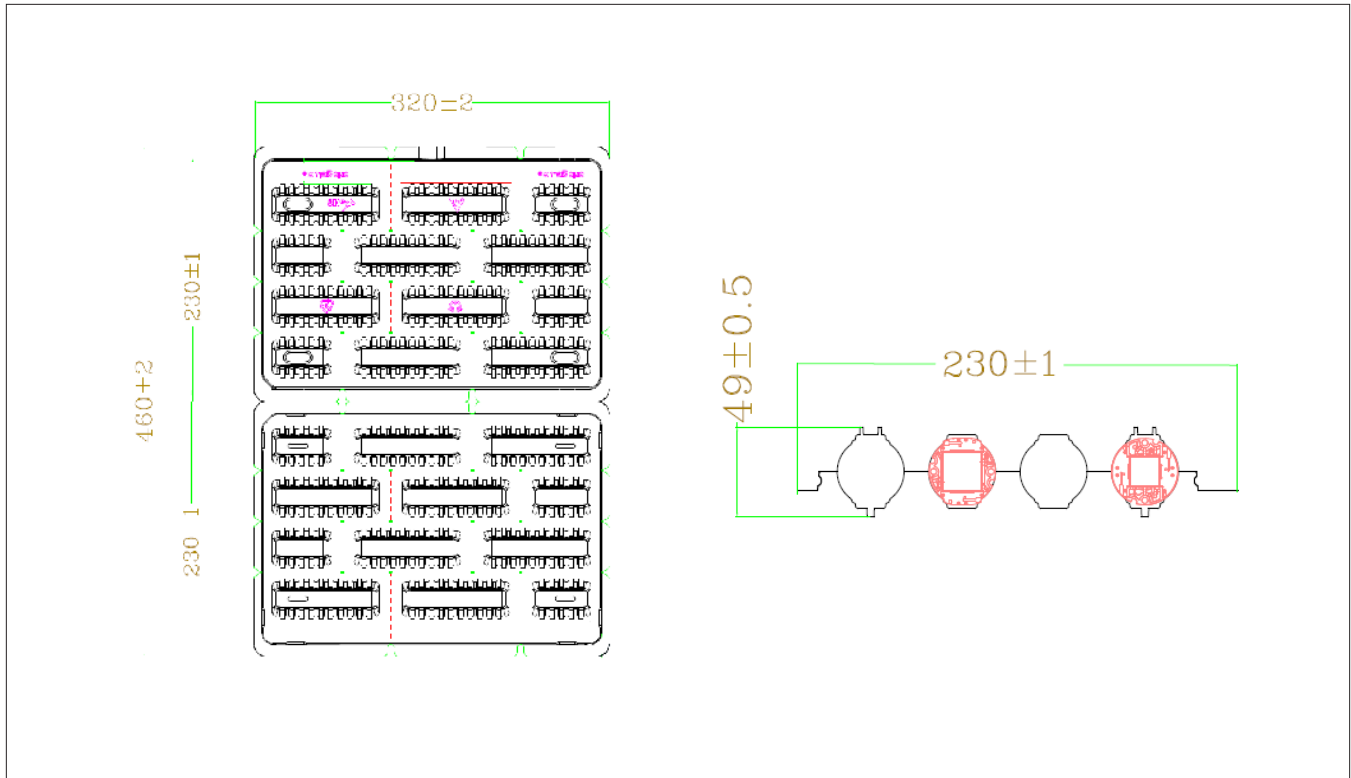
Bin Code	5000K	5600K ¹	5700K	6500K
ANSI Bin (for reference only)	(4745K - 5311K)	(5310K - 6020K)	(5312K - 6022K)	(6022K - 7042K)
74 (4 SDCM)	(4801K - 5282K)	(5475K - 5830K)	(5395K - 5970K)	(6200K - 6910K)
73 (3 SDCM)	(4835K - 5215K)	(5490K - 5820K)	(5460K - 5891K)	(6279K - 6811K)
Center Point (x,y)	(0.3447, 0.3553)	(0.3293, 0.3423)	(0.3287, 0.3417)	(0.3123, 0.3282)

Note for Table 10:

- Select configurations with a CCT of 5600K are available with center point targets at $T_c = 85^\circ\text{C}$ or $T_c = 25^\circ\text{C}$.
- Bridgelux maintains a tolerance of +/- 0.007 on x and y color coordinates in the CIE 1931 color Space.

Packaging and Labeling

Figure 27: Drawing for Vero SE 18 Packaging Tray

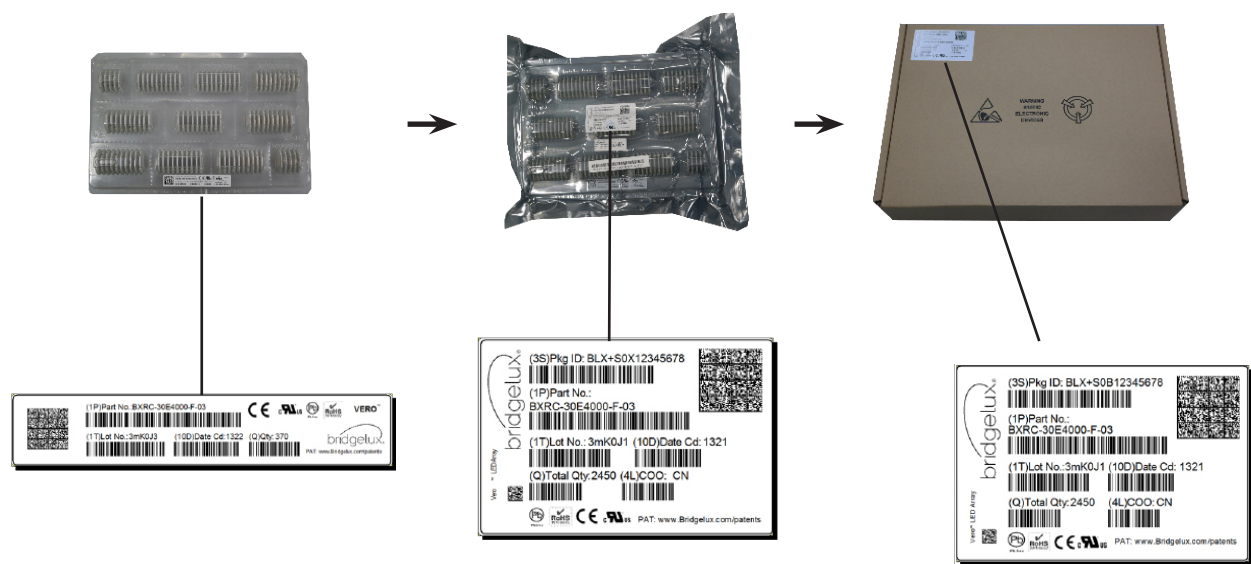


Notes for Figure 27:

1. Dimensions are in millimeters.
2. Drawings are not to scale.

Packaging and Labeling

Figure 28: Vero SE Series Packaging and Labeling



Notes for Figure 28:

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 29: Vero SE 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 Vero 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 Vero LED arrays are available in both IGS and STEP formats. Please contact your Bridgelux sales representative for assistance.

LM80

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

Precautions

CAUTION: CHEMICAL EXPOSURE HAZARD

Exposure to some chemicals commonly used in luminaire manufacturing and assembly can cause damage to the LED array. Please consult Bridgelux Application Note AN121 for additional information.

CAUTION: RISK OF BURN

Do not touch the Vero LED array during operation. Allow the array to cool for a sufficient period of time before handling. The Vero 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). 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.

For more information about the company, please visit
bridgelux.com
twitter.com/Bridgelux
facebook.com/Bridgelux
youtube.com/user/Bridgelux
linkedin.com/company/bridgelux-inc-_2
WeChat ID: BridgeluxInChina



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Bridgelux Vero SE 18 Array Series Product Data Sheet DS122 Rev. N (09/2021)