



Bridgelux[®] Vero[®] SE 29 Array

Product Data Sheet DS123







Introduction

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 typical R9 value of 98, which emphasizes the reds and color tones to which the human eye is most receptive - perfect for the most luxurious retail shops and world renowned museums. Décor Series Ultra is designed as a replacement for halogen 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.

- · Poke-in connectivity
- · Efficacy of 170 lm/W typical
- · Lumen output performance ranges from 5.368 to 37,173 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, bin code backside marking

- 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 arrays in series and parallel reduces customer driver cost
- Improved inventory management and quality control







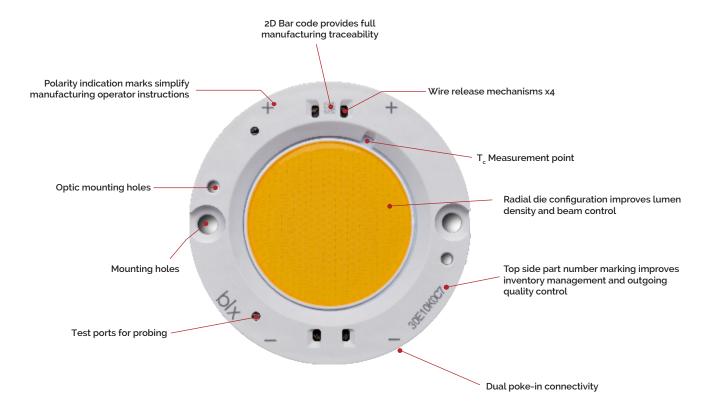


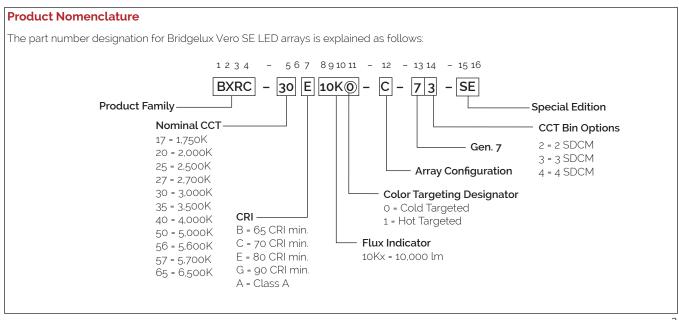
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Product Feature Map

Vero SE 29 is the 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 Series family of products.





The following product configurations are available:

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

| Part Number | Nominal CCT ¹ (K) | CRI² | Nominal Drive Current³ (mA) | Typical Pulsed Flux ^{4.5.6} T _c = 25°C (lm) | Minimum Pulsed Flux ^{6,7} T _c = 25°C (lm) | Typical V _f (V) | Typical Power (W) | Typical Efficacy (lm/W) |
|-------------------------------------|------------------------------------|------|--------------------------------------|--|--|-------------------------------|-------------------------|-------------------------------|
| BXRC-17E10K0-B-74-SE | 1750 | 80 | 1800 | 8590 | 7731 | 52.0 | 93.6 | 92 |
| BXRC-17E10K0-C-74-SE | 1750 | 80 | 1710 | 10891 | 9802 | 69.4 | 118.7 | 92 |
| BXRC-17E10K0-D-74-SE | 1750 | 80 | 2100 | 7246 | 6522 | 37.6 | 79.0 | 92 |
| BXRC-20B10K1-C-73-SE | 2000 | 65 | 1710 | 18585 | 16727 | 69.4 | 118.7 | 157 |
| BXRC-20B10K1-D-73-SE | 2000 | 65 | 2100 | 12366 | 11129 | 37.6 | 79.0 | 157 |
| BXRC-25E10K0-B-74-SE | 2500 | 80 | 1800 | 14285 | 12856 | 52.0 | 93.6 | 153 |
| BXRC-25E10K0-C-74-SE | 2500 | 80 | 1710 | 18112 | 16301 | 69.4 | 118.7 | 153 |
| BXRC-25E10K0-D-74-SE | 2500 | 80 | 2100 | 12051 | 10846 | 37.6 | 79.0 | 153 |
| BXRC-27E10K0-B-7x-SE | 2700 | 80 | 1800 | 14939 | 13445 | 52.0 | 93.6 | 160 |
| BXRC-27E10K0-C-7x-SE | 2700 | 80 | 1710 | 18940 | 17046 | 69.4 | 118.7 | 160 |
| BXRC-27E10K0-D-7x-SE | 2700 | 80 | 2100 | 12602 | 11342 | 37.6 | 79.0 | 160 |
| BXRC-27G1KH0-B-7x-SE | 2700 | 90 | 1800 | 12791 | 11512 | 52.0 | 93.6 | 137 |
| BXRC-27G1KH0-C-7x-SE | 2700 | 90 | 1710 | 16218 | 14596 | 69.4 | 118.7 | 137 |
| BXRC-27G1KH0-D-7x-SE | 2700 | 90 | 2100 | 10790 | 9711 | 37.6 | 79.0 | 137 |
| BXRC-27G10K0-B-7x-SE | 2700 | 90 | 1800 | 12324 | 11092 | 52.0 | 93.6 | 132 |
| BXRC-27G10K0-C-7x-SE | 2700 | 90 | 1710 | 15626 | 14063 | 69.4 | 118.7 | 132 |
| BXRC-27G10K0-D-7x-SE | 2700 | 90 | 2100 | 10397 | 9357 | 37.6 | 79.0 | 132 |
| BXRC-27H10K0-D-74-SE | 2700 | 97 | 2100 | 9215 | 8294 | 37.6 | 79.0 | 117 |
| BXRC-30C10K1-B-74-SE | 3000 | 70 | 1800 | 16619 | 14957 | 52.0 | 93.6 | 178 |
| BXRC-30C10K1-C-74-SE | 3000 | 70 | 1710 | 21071 | 18964 | 69.4 | 118.7 | 178 |
| BXRC-30C10K1-D-74-SE | 3000 | 70 | 2100 | 14020 | 12618 | 37.6 | 79.0 | 178 |
| BXRC-30E10K0-B-7x-SE10 | 3000 | 80 | 1800 | 15872 | 14285 | 52.0 | 93.6 | 170 |
| BXRC-30E10K0-C-7x-SE10 | 3000 | 80 | 1710 | 20124 | 18112 | 69.4 | 118.7 | 170 |
| BXRC-30E10K0-D-7x-SE10 | 3000 | 80 | 2100 | 13390 | 12051 | 37.6 | 79.0 | 170 |
| BXRC-30G1KH0-B-7x-SE | 3000 | 90 | 1800 | 13445 | 12100 | 52.0 | 93.6 | 144 |
| BXRC-30G1KH0-C-7x-SE | 3000 | 90 | 1710 | 17046 | 15342 | 69.4 | 118.7 | 144 |
| BXRC-30G1KH0-D-7x-SE | 3000 | 90 | 2100 | 11342 | 10208 | 37.6 | 79.0 | 144 |
| BXRC-30G10K0-B-7x-SE | 3000 | 90 | 1800 | 12885 | 11596 | 52.0 | 93.6 | 138 |
| BXRC-30G10K0-C-7x-SE | 3000 | 90 | 1710 | 16336 | 14702 | 69.4 | 118.7 | 138 |
| BXRC-30G10K0-D-7x-SE | 3000 | 90 | 2100 | 10869 | 9782 | 37.6 | 79.0 | 138 |
| BXRC-30H10K0-D-7X-SE | 3000 | 97 | 2100 | 9845 | 8861 | 37.6 | 79.0 | 125 |
| BXRC-30A10K1-B-73-SE ^{8.9} | 3000 | 93 | 1800 | 11577 | 10420 | 52.0 | 93.6 | 124 |
| BXRC-30A10K1-C-73-SE ^{8,9} | 3000 | 93 | 1710 | 14679 | 13211 | 69.4 | 118.7 | 124 |
| BXRC-30A10K1-D-73-SE89 | 3000 | 93 | 2100 | 9767 | 8790 | 37.6 | 79.0 | 124 |

- 1. Nominal CCT as defined by ANSI C78.377-2011. Products with a CCT of 5000K-6500K are hot targeted to T_c * 85°C.
- 2. All CRI values are measured at T₁ = T₂ = 25°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.
- 3. Drive current is referred to as nominal drive current.
- 4. Products tested under pulsed condition (10ms pulse width) at nominal test current where T_i (junction temperature) = T_c (case temperature) = 25°C.
- 5. Typical performance values are provided as a reference only and are not a guarantee of performance.
- 6. Bridgelux maintains a ±7% tolerance on flux measurements.
- 7. Minimum flux values at the nominal test current are guaranteed by 100% test.
- 8. 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.
- 10. SKUs meet DLC premium (Outdoor Mid Output) requirements under certain system level conditions.

Table 1: Selection Guide, Pulsed Measurement Data (T; = Tc = 25°C) (continued)

| Part Number | Nominal CCT¹ (K) | CRI² | Nominal Drive Current³ (mA) | Typical Pulsed Flux ^{4.5.6} T _c = 25°C (lm) | Minimum Pulsed Flux ^{6,7} T _c = 25°C (lm) | Typical V _f (V) | Typical Power (W) | Typical Efficacy (lm/W) |
|-------------------------------------|------------------------|------|--------------------------------------|---|--|-------------------------------|-------------------------|-------------------------------|
| BXRC-35E10K0-B-7x-SE10 | 3500 | 80 | 1800 | 16246 | 14621 | 52.0 | 93.6 | 174 |
| BXRC-35E10K0-C-7x-SE10 | 3500 | 80 | 1710 | 20598 | 18538 | 69.4 | 118.7 | 174 |
| BXRC-35E10K0-D-7x-SE10 | 3500 | 80 | 2100 | 13705 | 12334 | 37.6 | 79.0 | 174 |
| BXRC-35G10K0-B-7x-SE | 3500 | 90 | 1800 | 13351 | 12016 | 52.0 | 93.6 | 143 |
| BXRC-35G10K0-C-7x-SE | 3500 | 90 | 1710 | 16928 | 15235 | 69.4 | 118.7 | 143 |
| BXRC-35G10K0-D-7x-SE | 3500 | 90 | 2100 | 11263 | 10137 | 37.6 | 79.0 | 143 |
| BXRC-35A10K1-B-73-SE ^{8,9} | 3500 | 93 | 1800 | 12324 | 11092 | 52.0 | 93.6 | 132 |
| BXRC-35A10K1-C-73-SE89 | 3500 | 93 | 1710 | 15626 | 14063 | 69.4 | 118.7 | 132 |
| BXRC-35A10K1-D-73-SE ^{8,9} | 3500 | 93 | 2100 | 10397 | 9357 | 37.6 | 79.0 | 132 |
| BXRC-40C10K1-B-74-SE | 4000 | 70 | 1800 | 17086 | 15377 | 52.0 | 93.6 | 183 |
| BXRC-40C10K1-C-74-SE | 4000 | 70 | 1710 | 21663 | 19497 | 69.4 | 118.7 | 183 |
| BXRC-40C10K1-D-74-SE | 4000 | 70 | 2100 | 14414 | 12972 | 37.6 | 79.0 | 183 |
| BXRC-40E10K0-B-7x-SE10 | 4000 | 80 | 1800 | 16339 | 14705 | 52.0 | 93.6 | 175 |
| BXRC-40E10K0-C-7x-SE10 | 4000 | 80 | 1710 | 20716 | 18644 | 69.4 | 118.7 | 175 |
| BXRC-40E10K0-D-7x-SE10 | 4000 | 80 | 2100 | 13783 | 12405 | 37.6 | 79.0 | 175 |
| BXRC-40G10K0-B-7x-SE | 4000 | 90 | 1800 | 13631 | 12268 | 52.0 | 93.6 | 146 |
| BXRC-40G10K0-C-7x-SE | 4000 | 90 | 1710 | 17283 | 15555 | 69.4 | 118.7 | 146 |
| BXRC-40G10K0-D-7x-SE | 4000 | 90 | 2100 | 11499 | 10349 | 37.6 | 79.0 | 146 |
| BXRC-40H10K0-D-7X-SE | 4000 | 97 | 2100 | 10397 | 9357 | 37.6 | 79.0 | 132 |
| BXRC-40A10K1-B-73-SE ^{8,9} | 4000 | 93 | 1800 | 13351 | 12016 | 52.0 | 93.6 | 143 |
| BXRC-40A10K1-C-73-SE89 | 4000 | 93 | 1710 | 16928 | 15235 | 69.4 | 118.7 | 143 |
| BXRC-40A10K1-D-73-SE89 | 4000 | 93 | 2100 | 11263 | 10137 | 37.6 | 79.0 | 143 |
| BXRC-50C10K1-B-7x-SE10 | 5000 | 70 | 1800 | 17179 | 15461 | 52.0 | 93.6 | 184 |
| BXRC-50C10K1-C-7x-SE10 | 5000 | 70 | 1710 | 21781 | 19603 | 69.4 | 118.7 | 184 |
| BXRC-50C10K1-D-7x-SE10 | 5000 | 70 | 2100 | 14492 | 13043 | 37.6 | 79.0 | 184 |
| BXRC-50E10K1-B-7x-SE ¹⁰ | 5000 | 80 | 1800 | 16526 | 14873 | 52.0 | 93.6 | 177 |
| BXRC-50E10K1-C-7x-SE ¹⁰ | 5000 | 80 | 1710 | 20953 | 18858 | 69.4 | 118.7 | 177 |
| BXRC-50E10K1-D-7x-SE10 | 5000 | 80 | 2100 | 13941 | 12547 | 37.6 | 79.0 | 177 |
| BXRC-50G10K1-B-7x-SE | 5000 | 90 | 1800 | 14285 | 12856 | 52.0 | 93.6 | 153 |
| BXRC-50G10K1-C-74-SE | 5000 | 90 | 1710 | 18112 | 16301 | 69.4 | 118.7 | 153 |
| BXRC-50G10K1-D-74-SE | 5000 | 90 | 2100 | 12051 | 10846 | 37.6 | 79.0 | 153 |
| BXRC-56G10K0-B-74-SE | 5600 | 80 | 1800 | 14378 | 12941 | 52.0 | 93.6 | 154 |

- 1. Nominal CCT as defined by ANSI C78.377-2011. Products with a CCT of 5000K-6500K are hot targeted to T_c = 85°C.
- 2. All CRI values are measured at T_j = T_s = 25°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 R9 value for 80 CRI products is 0, the minimum R9 values for 97 CRI products is 93. Bridgelux maintains a ± 3 tolerance on CRI and R9 values.
- 3. Drive current is referred to as nominal drive current.
- 4. Products tested under pulsed condition (10ms pulse width) at nominal test current where T₁ (junction temperature) = T_c (case temperature) = 25°C.
- 5. Typical performance values are provided as a reference only and are not a guarantee of performance.
- 6. Bridgelux maintains a $\pm 7\%$ tolerance on flux measurements.
- 7. Minimum flux values at the nominal test current are guaranteed by 100% test.
- 8. 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.
- 10. SKUs meet DLC premium (Outdoor Mid Output) requirements under certain system level conditions.

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

| Part Number | Nominal CCT¹ (K) | CRI² | Nominal Drive Current ³ (mA) | Typical Pulsed Flux ^{4,5,6} T _c = 25°C (lm) | Minimum Pulsed Flux ^{6,7} T _c = 25°C (lm) | Typical V _f (V) | Typical Power (W) | Typical Efficacy (lm/W) |
|------------------------------------|------------------------|------|--|---|--|-------------------------------|-------------------------|-------------------------------|
| BXRC-50G10K1-C-7x-SE | 5600 | 80 | 1710 | 18230 | 16407 | 69.4 | 118.7 | 154 |
| BXRC-50G10K1-D-7x-SE | 5600 | 80 | 2100 | 12129 | 10916 | 37.6 | 79.0 | 154 |
| BXRC-56G10K1-B-74-SE | 5600 | 97 | 2100 | 10948 | 9853 | 37.6 | 79.0 | 139 |
| BXRC-56G10K1-C-74-SE | 5700 | 70 | 1800 | 16713 | 15041 | 52.0 | 93.6 | 179 |
| BXRC-56G10Kx-D-74-SE | 5700 | 70 | 1710 | 21190 | 19071 | 69.4 | 118.7 | 179 |
| BXRC-56H10K0-D-74-SE | 5700 | 70 | 2100 | 14099 | 12689 | 37.6 | 79.0 | 179 |
| BXRC-57C10K1-B-7x-SE ¹⁰ | 5700 | 80 | 1800 | 15872 | 14285 | 52.0 | 93.6 | 170 |
| BXRC-57C10K1-C-7x-SE10 | 5700 | 80 | 1710 | 20124 | 18112 | 69.4 | 118.7 | 170 |
| BXRC-57C10K1-D-7x-SE10 | 5700 | 80 | 2100 | 13390 | 12051 | 37.6 | 79.0 | 170 |
| BXRC-57E10K1-B-7x-SE10 | 6500 | 70 | 1800 | 16713 | 15041 | 52.0 | 93.6 | 179 |
| BXRC-57E10K1-C-7x-SE10 | 6500 | 70 | 1710 | 21190 | 19071 | 69.4 | 118.7 | 179 |
| BXRC-57E10K1-D-7x-SE10 | 6500 | 70 | 2100 | 14099 | 12689 | 37.6 | 79.0 | 179 |
| BXRC-65C10K1-B-7x-SE10 | 6500 | 80 | 1800 | 16059 | 14453 | 52.0 | 93.6 | 172 |
| BXRC-65C10K1-C-7x-SE10 | 6500 | 80 | 1710 | 20361 | 18325 | 69.4 | 118.7 | 172 |
| BXRC-65C10K1-D-7x-SE10 | 6500 | 80 | 2100 | 13547 | 12192 | 37.6 | 79.0 | 172 |

- 1. Nominal CCT as defined by ANSI C78.377-2011. Products with a CCT of 5000K-6500K are hot targeted to T_a = 85°C.
- 2. All CRI values are measured at T, = T, = 25°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 R9 value for 80 CRI products is 0, the minimum R9 values for 97 CRI products is 93. Bridgelux maintains a ± 3 tolerance on CRI and R9 values.
- 3. Drive current is referred to as nominal drive current.
- 4. Products tested under pulsed condition (10ms pulse width) at nominal test current where T_i (junction temperature) T_c (case temperature) 25°C.
- 5. Typical performance values are provided as a reference only and are not a guarantee of performance.
- 6. Bridgelux maintains a ±7% tolerance on flux measurements.
- 7. Minimum flux values at the nominal test current are guaranteed by 100% test.
- 8. 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.
- 9. 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.
- 10. SKUs meet DLC premium (Outdoor Mid Output) requirements under certain system level conditions.

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

| Part Number | Nominal CCT¹ (K) | GAI ² | CRI³ | Nominal Drive Current ⁴ (mA) | Typical DC Flux ^{5,6} T _c = 70°C (lm) | Minimum DC Flux ^{6,9} T _o = 70°C (lm) | Typical V _f (V) | Typical Power (W) | Typical Efficacy (lm/W) |
|----------------------|------------------------|------------------|------|--|--|--|-------------------------------|-------------------------|-------------------------------|
| BXRC-30A10K1-B-73-SE | 3000 | 80 | 93 | 1800 | 10767 | 9690 | 50.9 | 91.6 | 118 |
| BXRC-30A10K1-C-73-SE | 3000 | 80 | 93 | 1710 | 13651 | 12286 | 67.9 | 116.1 | 118 |
| BXRC-30A10K1-D-73-SE | 3000 | 80 | 93 | 2100 | 9083 | 8175 | 36.8 | 77.3 | 118 |
| BXRC-35A10K1-B-73-SE | 3500 | 80 | 93 | 1800 | 11462 | 10315 | 50.9 | 91.6 | 125 |
| BXRC-35A10K1-C-73-SE | 3500 | 80 | 93 | 1710 | 14532 | 13079 | 67.9 | 116.1 | 125 |
| BXRC-35A10K1-D-73-SE | 3500 | 80 | 93 | 2100 | 9669 | 8702 | 36.8 | 77.3 | 125 |
| BXRC-40A10K1-B-73-SE | 4000 | 80 | 93 | 1800 | 12417 | 11175 | 50.9 | 91.6 | 136 |
| BXRC-40A10K1-C-73-SE | 4000 | 80 | 93 | 1710 | 15743 | 14169 | 67.9 | 116.1 | 136 |
| BXRC-40A10K1-D-73-SE | 4000 | 80 | 93 | 2100 | 10475 | 9427 | 36.8 | 77.3 | 136 |

- 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.

Table 3: Selection Guide, Stabilized DC Performance (T_c = 85°C) 4.5

| Part Number | Nominal CCT¹ (K) | CRI ² | Nominal Drive Current³ (mA) | Typical DC Flux⁴⁵ T _c = 85°C (lm) | Minimum DC Flux ⁶ T _c = 85°C (lm) | Typical V _f (V) | Typical Power (W) | Typical Efficacy (lm/W) |
|-------------------------------------|---------------------|------------------|-----------------------------------|---|--|-------------------------------|-------------------------|-------------------------------|
| BXRC-17E10K0-B-74-SE | 1750 | 80 | 1800 | 7731 | 6958 | 50.7 | 91.2 | 85 |
| BXRC-17E10K0-C-74-SE | 1750 | 80 | 1710 | 9802 | 8821 | 68.1 | 116.4 | 84 |
| BXRC-17E10K0-D-74-SE | 1750 | 80 | 2100 | 6522 | 5869 | 36.6 | 76.8 | 85 |
| BXRC-20B10K1-C-73-SE | 2000 | 65 | 1710 | 16727 | 15054 | 68.1 | 116.4 | 144 |
| BXRC-20B10K1-D-73-SE | 2000 | 65 | 2100 | 11129 | 10016 | 36.6 | 76.8 | 145 |
| BXRC-25E10K0-B-74-SE | 2500 | 80 | 1800 | 12856 | 11571 | 50.7 | 91.2 | 141 |
| BXRC-25E10K0-C-74-SE | 2500 | 80 | 1710 | 16301 | 14671 | 68.1 | 116.4 | 140 |
| BXRC-25E10K0-D-74-SE | 2500 | 80 | 2100 | 10846 | 9761 | 36.6 | 76.8 | 141 |
| BXRC-27E10K0-B-7x-SE | 2700 | 80 | 1800 | 13445 | 12100 | 50.7 | 91.2 | 147 |
| BXRC-27E10K0-C-7x-SE | 2700 | 80 | 1710 | 17046 | 15342 | 68.1 | 116.4 | 146 |
| BXRC-27E10K0-D-7x-SE | 2700 | 80 | 2100 | 11342 | 10208 | 36.6 | 76.8 | 148 |
| BXRC-27G1KH0-B-7x-SE | 2700 | 90 | 1800 | 11512 | 10361 | 50.7 | 91.2 | 126 |
| BXRC-27G1KH0-C-7x-SE | 2700 | 90 | 1710 | 14596 | 13136 | 68.1 | 116.4 | 125 |
| BXRC-27G1KH0-D-7x-SE | 2700 | 90 | 2100 | 9711 | 8740 | 36.6 | 76.8 | 127 |
| BXRC-27G10K0-B-7x-SE | 2700 | 90 | 1800 | 11092 | 9983 | 50.7 | 91.2 | 122 |
| BXRC-27G10K0-C-7x-SE | 2700 | 90 | 1710 | 14063 | 12657 | 68.1 | 116.4 | 121 |
| BXRC-27G10K0-D-7x-SE | 2700 | 90 | 2100 | 9357 | 8421 | 36.6 | 76.8 | 122 |
| BXRC-27H10K0-D-74-SE | 2700 | 97 | 2100 | 8294 | 7464 | 36.6 | 76.9 | 108 |
| BXRC-30C10K1-B-74-SE | 3000 | 70 | 1800 | 14957 | 13462 | 50.7 | 91.2 | 164 |
| BXRC-30C10K1-C-74-SE | 3000 | 70 | 1710 | 18964 | 17068 | 68.1 | 116.4 | 163 |
| BXRC-30C10K1-D-74-SE | 3000 | 70 | 2100 | 12618 | 11356 | 36.6 | 76.8 | 164 |
| BXRC-30E10K0-B-7x-SE | 3000 | 80 | 1800 | 14285 | 12856 | 50.7 | 91.2 | 157 |
| BXRC-30E10K0-C-7x-SE | 3000 | 80 | 1710 | 18112 | 16301 | 68.1 | 116.4 | 156 |
| BXRC-30E10K0-D-7x-SE | 3000 | 80 | 2100 | 12051 | 10846 | 36.6 | 76.8 | 157 |
| BXRC-30G1KH0-B-7X-SE | 3000 | 90 | 1800 | 12100 | 10890 | 50.7 | 91.2 | 133 |
| BXRC-30G1KH0-C-7X-SE | 3000 | 90 | 1710 | 15342 | 13808 | 68.1 | 116.4 | 132 |
| BXRC-30G1KH0-D-7X-SE | 3000 | 90 | 2100 | 10208 | 9187 | 36.6 | 76.8 | 133 |
| BXRC-30G10K0-B-7x-SE | 3000 | 90 | 1800 | 11596 | 10436 | 50.7 | 91.2 | 127 |
| BXRC-30G10K0-C-7x-SE | 3000 | 90 | 1710 | 14702 | 13232 | 68.1 | 116.4 | 126 |
| BXRC-30G10K0-D-7x-SE | 3000 | 90 | 2100 | 9782 | 8804 | 36.6 | 76.8 | 127 |
| BXRC-30H10K0-D-7X-SE | 3000 | 97 | 2100 | 8861 | 7975 | 36.6 | 76.8 | 115 |
| BXRC-30A10K1-B-73-SE ^{7.8} | 3000 | 93 | 1800 | 10420 | 9378 | 50.7 | 91.2 | 114 |
| BXRC-30A10K1-C-73-SE ^{7,8} | 3000 | 93 | 1710 | 13211 | 11890 | 68.1 | 116.4 | 113 |
| BXRC-30A10K1-D-73-SE ^{7,8} | 3000 | 93 | 2100 | 8790 | 7911 | 36.6 | 76.8 | 114 |

- 1. Nominal CCT as defined by ANSI C78.377-2011. Products with a CCT of 5000K-6500K are hot targeted to T_c 85°C.
- 2. All CRI values are measured at T₁ = T₂ = 25°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 R9 value for 80 CRI products is 0, the minimum R9 values for 90 CRI products is 50, the minimum R9 values for 97 CRI products is 93. Bridgelux maintains a ± 3 tolerance on CRI and R9 values.
- 3. Drive current is referred to as nominal drive current.
- 4. Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.
- 5. Typical performance is estimated based on operation under DC (direct current) with LED array mounted onto a heat sink with thermal interface material and the case temperature maintained at 85°C. Based on Bridgelux test setup, values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.
- 6. Minimum flux values at elevated temperatures are provided for reference only and are not guaranteed by 100% production testing. Based on Bridgelux test setup, values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.
- 7. 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.
- 8. 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.

Table 3: Selection Guide, Stabilized DC Performance (T_c = 85°C) ^{4.5} (continued)

| Part Number | Nominal CCT ¹ (K) | CRI ² | Nominal Drive Current³ (mA) | Typical DC Flux ^{4.5} T _c = 85°C (lm) | Minimum DC Flux ⁶ T _c = 85°C (lm) | Typical V _f (V) | Typical Power (W) | Typical Efficacy (lm/W) |
|-------------------------------------|---------------------------------|------------------|-----------------------------------|--|--|----------------------------|-------------------------|-------------------------------|
| BXRC-35E10K0-B-7x-SE | 3500 | 80 | 1800 | 13815 | 14621 | 13159 | 91.2 | 160 |
| BXRC-35E10K0-C-7x-SE | 3500 | 80 | 1710 | 17516 | 18538 | 16684 | 116.4 | 159 |
| BXRC-35E10K0-D-7x-SE | 3500 | 80 | 2100 | 11654 | 12334 | 11101 | 76.8 | 161 |
| BXRC-35G10K0-B-7x-SE | 3500 | 90 | 1800 | 11541 | 12016 | 10815 | 91.2 | 132 |
| BXRC-35G10K0-C-7x-SE | 3500 | 90 | 1710 | 14633 | 15235 | 13712 | 116.4 | 131 |
| BXRC-35G10K0-D-7x-SE | 3500 | 90 | 2100 | 9736 | 10137 | 9123 | 76.8 | 132 |
| BXRC-35A10K1-B-73-SE ^{7,8} | 3500 | 93 | 1800 | 10867 | 11092 | 9983 | 91.2 | 122 |
| BXRC-35A10K1-C-73-SE ^{7,8} | 3500 | 93 | 1710 | 13778 | 14063 | 12657 | 116.4 | 121 |
| BXRC-35A10K1-D-73-SE ^{7,8} | 3500 | 93 | 2100 | 9167 | 9357 | 8421 | 76.8 | 122 |
| BXRC-40C10K1-B-74-SE | 4000 | 70 | 1800 | 15163 | 15377 | 13840 | 91.2 | 169 |
| BXRC-40C10K1-C-74-SE | 4000 | 70 | 1710 | 19225 | 19497 | 17547 | 116.4 | 167 |
| BXRC-40C10K1-D-74-SE | 4000 | 70 | 2100 | 12792 | 12972 | 11675 | 76.8 | 169 |
| BXRC-40E10K0-B-7x-SE | 4000 | 80 | 1800 | 13900 | 14705 | 13235 | 91.2 | 161 |
| BXRC-40E10K0-C-7x-SE | 4000 | 80 | 1710 | 17623 | 18644 | 16780 | 116.4 | 160 |
| BXRC-40E10K0-D-7x-SE | 4000 | 80 | 2100 | 11726 | 12405 | 11165 | 76.8 | 162 |
| BXRC-40G10K0-B-7x-SE | 4000 | 90 | 1800 | 11962 | 12268 | 11041 | 91.2 | 135 |
| BXRC-40G10K0-C-7x-SE | 4000 | 90 | 1710 | 15167 | 15555 | 13999 | 116.4 | 134 |
| BXRC-40G10K0-D-7x-SE | 4000 | 90 | 2100 | 10091 | 10349 | 9314 | 76.8 | 135 |
| BXRC-40H10K0-D-7X-SE | 4000 | 97 | 2100 | 8670 | 9357 | 8421 | 76.8 | 122 |
| BXRC-40A10K1-B-73-SE ^{7,8} | 4000 | 93 | 1800 | 11625 | 12016 | 10815 | 91.2 | 132 |
| BXRC-40A10K1-C-73-SE ^{7,8} | 4000 | 93 | 1710 | 14739 | 15235 | 13712 | 116.4 | 131 |
| BXRC-40A10K1-D-73-SE ^{7,8} | 4000 | 93 | 2100 | 9807 | 10137 | 9123 | 76.8 | 132 |
| BXRC-50C10K1-B-7x-SE | 5000 | 70 | 1800 | 15332 | 15461 | 13915 | 91.2 | 170 |
| BXRC-50C10K1-C-7x-SE | 5000 | 70 | 1710 | 19439 | 19603 | 17643 | 116.4 | 168 |
| BXRC-50C10K1-D-7x-SE | 5000 | 70 | 2100 | 12934 | 13043 | 11739 | 76.8 | 170 |
| BXRC-50E10K1-B-7x-SE | 5000 | 80 | 1800 | 14405 | 14873 | 13386 | 91.2 | 163 |
| BXRC-50E10K1-C-7x-SE | 5000 | 80 | 1710 | 18264 | 18858 | 16972 | 116.4 | 162 |
| BXRC-50E10K1-D-7x-SE | 5000 | 80 | 2100 | 12152 | 12547 | 11292 | 76.8 | 163 |
| BXRC-50G10K1-B-7x-SE | 5000 | 90 | 1800 | 12215 | 12856 | 11571 | 91.2 | 141 |
| BXRC-50G10K1-C-7x-SE | 5000 | 90 | 1710 | 15487 | 16301 | 14671 | 116.4 | 140 |
| BXRC-50G10K1-D-7x-SE | 5000 | 90 | 2100 | 10304 | 10846 | 9761 | 76.8 | 141 |
| BXRC-56G10K1-B-74-SE | 5600 | 80 | 1800 | 12804 | 12941 | 11646 | 91.2 | 142 |
| BXRC-56G10K1-C-74-SE | 5600 | 80 | 1710 | 16235 | 16407 | 14766 | 116.4 | 141 |
| BXRC-56G10Kx-D-74-SE | 5600 | 80 | 2100 | 10802 | 10916 | 9825 | 76.8 | 142 |
| BXRC-56H10K0-D-74-SE | 5600 | 97 | 2100 | 9380 | 9853 | 8868 | 76.8 | 128 |

- 1. Nominal CCT as defined by ANSI C78.377-2011. Products with a CCT of 5000K-6500K are hot targeted to T_c * 85°C.
- 2. All CRI values are measured at T, = T = 25°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 R9 value for 80 CRI products is 0, the minimum R9 values for 90 CRI products is 50, the minimum R9 values for 97 CRI products is 93. Bridgelux maintains a ± 3 tolerance on CRI and R9 values.
- 3. Drive current is referred to as nominal drive current.
- 4. Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.
- 5. Typical performance is estimated based on operation under DC (direct current) with LED array mounted onto a heat sink with thermal interface material and the case temperature maintained at 85°C. Based on Bridgelux test setup, values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.
- 6. Minimum flux values at elevated temperatures are provided for reference only and are not guaranteed by 100% production testing. Based on Bridgelux test setup, values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.
- 7. 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.
- 8. 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.

Table 3: Selection Guide, Stabilized DC Performance ($T_c = 85^{\circ}C$) 45 (continued)

| Part Number | Nominal CCT¹ (K) | CRI² | Nominal Drive Current³ (mA) | Typical DC Flux ^{4.5} T _c = 85°C (lm) | Minimum DC Flux ⁶ T _c = 85°C (lm) | Typical V _f (V) | Typical Power (W) | Typical Efficacy (lm/W) |
|----------------------|---------------------|------|-----------------------------------|--|--|-------------------------------|-------------------------|-------------------------------|
| BXRC-57C10K1-B-7x-SE | 5700 | 70 | 1800 | 15041 | 13537 | 50.7 | 91.2 | 165 |
| BXRC-57C10K1-C-7x-SE | 5700 | 70 | 1710 | 19071 | 17164 | 68.1 | 116.4 | 164 |
| BXRC-57C10K1-D-7x-SE | 5700 | 70 | 2100 | 12689 | 11420 | 36.6 | 76.8 | 165 |
| BXRC-57E10K1-B-7x-SE | 5700 | 80 | 1800 | 14285 | 12856 | 50.7 | 91.2 | 157 |
| BXRC-57E10K1-C-7x-SE | 5700 | 80 | 1710 | 18112 | 16301 | 68.1 | 116.4 | 156 |
| BXRC-57E10K1-D-7x-SE | 5700 | 80 | 2100 | 12051 | 10846 | 36.6 | 76.8 | 157 |
| BXRC-65C10K1-B-7x-SE | 6500 | 70 | 1800 | 15041 | 13537 | 50.7 | 91.2 | 165 |
| BXRC-65C10K1-C-7x-SE | 6500 | 70 | 1710 | 19071 | 17164 | 68.1 | 116.4 | 164 |
| BXRC-65C10K1-D-7x-SE | 6500 | 70 | 2100 | 12689 | 11420 | 36.6 | 76.8 | 165 |
| BXRC-65E10K1-B-7x-SE | 6500 | 80 | 1800 | 14453 | 13008 | 50.7 | 91.2 | 158 |
| BXRC-65E10K1-C-7x-SE | 6500 | 80 | 1710 | 18325 | 16492 | 68.1 | 116.4 | 157 |
| BXRC-65E10K1-D-7x-SE | 6500 | 80 | 2100 | 12192 | 10973 | 36.6 | 76.8 | 159 |

- 1. Nominal CCT as defined by ANSI C78.377-2011. Products with a CCT of 5000K-6500K are hot targeted to To = 85°C.
- 2. All CRI values are measured at T₂ = T₃ = 25°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 R9 value for 80 CRI products is 0, the minimum R9 values for 97 CRI products is 93. Bridgelux maintains a ± 3 tolerance on CRI and R9 values.
- 3. Drive current is referred to as nominal drive current.
- 4. Typical stabilized DC performance values are provided as reference only and are not a guarantee of performance.
- 5. Typical performance is estimated based on operation under DC (direct current) with LED array mounted onto a heat sink with thermal interface material and the case temperature maintained at 85°C. Based on Bridgelux test setup, values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.
- 6. Minimum flux values at elevated temperatures are provided for reference only and are not guaranteed by 100% production testing. Based on Bridgelux test setup, values may vary depending on the thermal design of the luminaire and/or the exposed environment to which the product is subjected.
- 7. 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.
- 8. 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.

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 4.

 Table 4: Product Performance at Commonly Used Drive Currents

| Part Number | CRI | Drive Current¹ (mA) | Typical V _f T _c = 25°C (V) | Typical Power T _c = 25°C (W) | Typical Flux² T _c = 25°C (lm) | Typical DC Flux³ T _c = 85°C (lm) | Typical Efficacy T _c = 25°C (lm/W) |
|----------------------|-----|---------------------------|--|--|---|--|--|
| | | 900 | 49.6 | 44.7 | 4459 | 4070 | 100 |
| | | 1200 | 50.5 | 60.6 | 5871 | 5337 | 97 |
| BXRC-17E10K0-B-74-SE | 80 | 1800 | 52.0 | 93.6 | 8590 | 7731 | 92 |
| | | 2700 | 54.1 | 146.1 | 12382 | 11042 | 85 |
| | | 3600 | 55.8 | 201.0 | 15847 | 13963 | 79 |
| | | 855 | 66.2 | 56.6 | 6187 | 5887 | 109 |
| | | 1140 | 67.3 | 76.7 | 7863 | 7253 | 103 |
| BXRC-17E10K0-C-74-SE | 80 | 1710 | 69.4 | 118.7 | 10891 | 9802 | 92 |
| | | 2565 | 72.1 | 185.0 | 15450 | 13288 | 84 |
| | | 3420 | 74.4 | 254.6 | 19365 | 16272 | 76 |
| | | 1050 | 35.4 | 37.2 | 3986 | 3884 | 107 |
| | | 1400 | 36.2 | 50.6 | 5130 | 4774 | 101 |
| BXRC-17E10K0-D-74-SE | 80 | 2100 | 37.6 | 79.0 | 7246 | 6522 | 92 |
| | | 3150 | 39.5 | 124.4 | 10316 | 8692 | 83 |
| | | 4200 | 41.2 | 172.9 | 13002 | 10617 | 75 |
| | | 855 | 66.2 | 56.6 | 10558 | 10047 | 187 |
| | | 1140 | 67.3 | 76.7 | 13419 | 12378 | 175 |
| BXRC-20B10K1-C-73-SE | 65 | 1710 | 69.4 | 118.7 | 18585 | 16727 | 157 |
| | | 2565 | 72.1 | 185.0 | 26365 | 22676 | 143 |
| | | 3420 | 74.4 | 254.6 | 33047 | 27768 | 130 |
| | | 1050 | 35.4 | 37.2 | 6802 | 6627 | 183 |
| | | 1400 | 36.2 | 50.6 | 8754 | 8147 | 173 |
| BXRC-20B10K1-D-73-SE | 65 | 2100 | 37.6 | 79.0 | 12366 | 11129 | 157 |
| | | 3150 | 39.5 | 124.4 | 17604 | 14833 | 142 |
| | | 4200 | 41.2 | 172.9 | 22188 | 18118 | 128 |
| | | 900 | 49.6 | 44.7 | 7416 | 6769 | 166 |
| | | 1200 | 50.5 | 60.6 | 9764 | 8876 | 161 |
| BXRC-25E10K0-B-74-SE | 80 | 1800 | 52.0 | 93.6 | 14285 | 12856 | 153 |
| | | 2700 | 54.1 | 146.1 | 20592 | 18364 | 141 |
| | | 3600 | 55.8 | 201.0 | 26355 | 23221 | 131 |
| | | 855 | 66.2 | 56.6 | 10289 | 9791 | 182 |
| | | 1140 | 67.3 | 76.7 | 13077 | 12063 | 170 |
| BXRC-25E10K0-C-74-SE | 80 | 1710 | 69.4 | 118.7 | 18112 | 16301 | 153 |
| | | 2565 | 72.1 | 185.0 | 25694 | 22099 | 139 |
| | | 3420 | 74.4 | 254.6 | 32205 | 27061 | 127 |
| <u> </u> | | 1050 | 35.4 | 37.2 | 6628 | 6459 | 178 |
| | | 1400 | 36.2 | 50.6 | 8531 | 7939 | 168 |
| BXRC-25E10K0-D-74-SE | 80 | 2100 | 37.6 | 79.0 | 12051 | 10846 | 153 |
| | | 3150 | 39.5 | 124.4 | 17156 | 14455 | 138 |
| | | 4200 | 41.2 | 172.9 | 21623 | 17657 | 125 |

- 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.

Table 4: Product Performance at Commonly Used Drive Currents (Continued)

| Part Number | CRI | Drive Current¹ (mA) | Typical V _f T _c = 25°C (V) | Typical Power T _c = 25°C (W) | Typical Flux² T _c = 25°C (lm) | Typical DC Flux³ T _c = 85°C (lm) | Typical Efficacy T _c = 25°C (lm/W) |
|----------------------|-----|---------------------------|--|--|---|--|--|
| | | 900 | 49.6 | 44.7 | 7755 | 7079 | 174 |
| | | 1200 | 50.5 | 60.6 | 10211 | 9282 | 169 |
| BXRC-27E10K0-B-7x-SE | 80 | 1800 | 52.0 | 93.6 | 14939 | 13445 | 160 |
| | | 2700 | 54.1 | 146.1 | 21534 | 19204 | 147 |
| | | 3600 | 55.8 | 201.0 | 27561 | 24283 | 137 |
| | | 855 | 66.2 | 56.6 | 10759 | 10239 | 190 |
| | | 1140 | 67.3 | 76.7 | 13675 | 12615 | 178 |
| BXRC-27E10K0-C-7x-SE | 80 | 1710 | 69.4 | 118.7 | 18940 | 17046 | 160 |
| | | 2565 | 72.1 | 185.0 | 26869 | 23110 | 145 |
| | | 3420 | 74.4 | 254.6 | 33678 | 28299 | 132 |
| | | 1050 | 35.4 | 37.2 | 6932 | 6754 | 186 |
| | Ī | 1400 | 36.2 | 50.6 | 8921 | 8302 | 176 |
| BXRC-27E10K0-D-7x-SE | 80 | 2100 | 37.6 | 79.0 | 12602 | 11342 | 160 |
| | | 3150 | 39.5 | 124.4 | 17941 | 15117 | 144 |
| | | 4200 | 41.2 | 172.9 | 22612 | 18464 | 131 |
| | | 900 | 49.6 | 44.7 | 6640 | 6061 | 149 |
| | | 1200 | 50.5 | 60.6 | 8743 | 7948 | 144 |
| BXRC-27G1KH0-B-7x-SE | 90 | 1800 | 52.0 | 93.6 | 12791 | 11512 | 137 |
| | | 2700 | 54.1 | 146.1 | 18438 | 16444 | 126 |
| | l l | 3600 | 55.8 | 201.0 | 23599 | 20792 | 117 |
| | | 855 | 66.2 | 56.6 | 9213 | 8767 | 163 |
| | | 1140 | 67.3 | 76.7 | 11709 | 10801 | 153 |
| BXRC-27G1KH0-C-7x-SE | 90 | 1710 | 69.4 | 118.7 | 16218 | 14596 | 137 |
| , , | | 2565 | 72.1 | 185.0 | 23007 | 19788 | 124 |
| | l l | 3420 | 74.4 | 254.6 | 28837 | 24231 | 113 |
| | | 1050 | 35.4 | 37.2 | 5935 | 5783 | 160 |
| | l l | 1400 | 36.2 | 50.6 | 7639 | 7109 | 151 |
| BXRC-27G1KH0-D-7x-SE | 90 | 2100 | 37.6 | 79.0 | 10790 | 9711 | 137 |
| | | 3150 | 39.5 | 124.4 | 15362 | 12944 | 124 |
| | | 4200 | 41.2 | 172.9 | 19361 | 15810 | 112 |
| | | 900 | 49.6 | 44.7 | 6398 | 5840 | 143 |
| | | 1200 | 50.5 | 60.6 | 8424 | 7658 | 139 |
| BXRC-27G10K0-B-7x-SE | 90 | 1800 | 52.0 | 93.6 | 12324 | 11092 | 132 |
| , , , , | | 2700 | 54.1 | 146.1 | 17765 | 15843 | 122 |
| | | 3600 | 55.8 | 201.0 | 22738 | 20033 | 113 |
| | | 855 | 66.2 | 56.6 | 8877 | 8447 | 157 |
| | | 1140 | 67.3 | 76.7 | 11282 | 10407 | 147 |
| BXRC-27G10K0-C-7x-SE | 90 | 1710 | 69.4 | 118.7 | 15626 | 14063 | 132 |
| , | | 2565 | 72.1 | 185.0 | 22167 | 19065 | 120 |
| | | 3420 | 74.4 | 254.6 | 27784 | 23347 | 109 |
| | | 1050 | 35.4 | 37.2 | 5719 | 5572 | 154 |
| | | 1400 | 36.2 | 50.6 | 7360 | 6849 | 145 |
| BXRC-27G10K0-D-7x-SE | 90 | 2100 | 37.6 | 79.0 | 10397 | 9357 | 132 |
| 5,5 L/GIONO D /A OL | 30 | 3150 | 39.5 | 124.4 | 14801 | 12471 | 119 |
| | - | 4200 | 41.2 | 172.9 | 18655 | 15233 | 108 |

- 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.

 Table 4: Product Performance at Commonly Used Drive Currents (Continued)

| Part Number | CRI | Drive Current¹ (mA) | Typical V _f T _c = 25°C (V) | Typical Power T _c = 25°C (W) | Typical Flux² T _c = 25°C (lm) | Typical DC Flux³ T _c = 85°C (lm) | Typical Efficacy T _c = 25°C (lm/W) |
|----------------------|-----|---------------------------|--|--|---|--|--|
| | | 1050 | 35.4 | 37.2 | 5069 | 4939 | 136 |
| | | 1400 | 36.2 | 50.6 | 6523 | 6071 | 129 |
| BXRC-27H10K0-D-74-SE | 97 | 2100 | 37.6 | 79.0 | 9215 | 8294 | 117 |
| | | 3150 | 39.5 | 124.4 | 13119 | 11054 | 105 |
| | | 4200 | 41.2 | 172.9 | 16535 | 13502 | 96 |
| | | 900 | 49.6 | 44.7 | 9441 | 8984 | 211 |
| | | 1200 | 50.5 | 60.6 | 11999 | 11069 | 198 |
| BXRC-30C10K1-B-74-SE | 70 | 1800 | 52.0 | 93.6 | 16619 | 14957 | 178 |
| | | 2700 | 54.1 | 146.1 | 23576 | 20277 | 161 |
| | | 3600 | 55.8 | 201.0 | 29551 | 24831 | 147 |
| | | 855 | 66.2 | 56.6 | 11590 | 11293 | 205 |
| | | 1140 | 67.3 | 76.7 | 14916 | 13882 | 194 |
| BXRC-30C10K1-C-74-SE | 70 | 1710 | 69.4 | 118.7 | 21071 | 18964 | 178 |
| | | 2565 | 72.1 | 185.0 | 29998 | 25276 | 162 |
| | | 3420 | 74.4 | 254.6 | 37808 | 30873 | 149 |
| | | 1050 | 35.4 | 37.2 | 7712 | 7514 | 207 |
| | | 1400 | 36.2 | 50.6 | 9925 | 9236 | 196 |
| BXRC-30C10K1-D-74-SE | 70 | 2100 | 37.6 | 79.0 | 14020 | 12618 | 178 |
| | | 3150 | 39.5 | 124.4 | 19959 | 16817 | 160 |
| | | 4200 | 41.2 | 172.9 | 25156 | 20542 | 145 |
| | | 900 | 49.6 | 44.7 | 8240 | 7521 | 184 |
| | | 1200 | 50.5 | 60.6 | 10849 | 9862 | 179 |
| BXRC-30E10K0-B-7x-SE | 80 | 1800 | 52.0 | 93.6 | 15872 | 14285 | 170 |
| | | 2700 | 54.1 | 146.1 | 22879 | 20404 | 157 |
| | | 3600 | 55.8 | 201.0 | 29283 | 25801 | 146 |
| | | 855 | 66.2 | 56.6 | 11432 | 10878 | 202 |
| | [| 1140 | 67.3 | 76.7 | 14530 | 13403 | 189 |
| BXRC-30E10K0-C-7x-SE | 80 | 1710 | 69.4 | 118.7 | 20124 | 18112 | 170 |
| | | 2565 | 72.1 | 185.0 | 28549 | 24554 | 154 |
| | | 3420 | 74.4 | 254.6 | 35783 | 30068 | 141 |
| | | 1050 | 35.4 | 37.2 | 7365 | 7176 | 198 |
| | | 1400 | 36.2 | 50.6 | 9479 | 8821 | 187 |
| BXRC-30E10K0-D-7x-SE | 80 | 2100 | 37.6 | 79.0 | 13390 | 12051 | 170 |
| | | 3150 | 39.5 | 124.4 | 19062 | 16062 | 153 |
| | | 4200 | 41.2 | 172.9 | 24025 | 19619 | 139 |
| | | 900 | 49.6 | 44.7 | 6979 | 6371 | 156 |
| | | 1200 | 50.5 | 60.6 | 9190 | 8354 | 152 |
| BXRC-30G1KH0-B-7x-SE | 90 | 1800 | 52.0 | 93.6 | 13445 | 12100 | 144 |
| | | 2700 | 54.1 | 146.1 | 19380 | 17284 | 133 |
| | | 3600 | 55.8 | 201.0 | 24805 | 21855 | 123 |
| | | 855 | 66.2 | 56.6 | 9683 | 9215 | 171 |
| | | 1140 | 67.3 | 76.7 | 12308 | 11353 | 160 |
| BXRC-30G1KH0-C-7x-SE | 90 | 1710 | 69.4 | 118.7 | 17046 | 15342 | 144 |
| | | 2565 | 72.1 | 185.0 | 24182 | 20799 | 131 |
| | | 3420 | 74.4 | 254.6 | 30310 | 25469 | 119 |

- 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.

Table 4: Product Performance at Commonly Used Drive Currents (Continued)

| Part Number | CRI | Drive Current¹ (mA) | Typical V _f T _c = 25°C (V) | Typical Power T _c = 25°C (W) | Typical Flux² T _c = 25°C (lm) | Typical DC Flux³ T _c = 85°C (lm) | Typical Efficacy T _c = 25°C (lm/W) |
|---------------------------|----------|---------------------------|--|--|---|--|--|
| | | 1050 | 35.4 | 37.2 | 6239 | 6079 | 168 |
| | | 1400 | 36.2 | 50.6 | 8029 | 7472 | 159 |
| BXRC-30G1KH0-D-7x-SE | 90 | 2100 | 37.6 | 79.0 | 11342 | 10208 | 144 |
| | | 3150 | 39.5 | 124.4 | 16147 | 13605 | 130 |
| | | 4200 | 41.2 | 172.9 | 20351 | 16618 | 118 |
| | | 900 | 49.6 | 44.7 | 6689 | 6106 | 150 |
| | | 1200 | 50.5 | 60.6 | 8807 | 8006 | 145 |
| BXRC-30G10K0-B-7x-SE | 90 | 1800 | 52.0 | 93.6 | 12885 | 11596 | 138 |
| | | 2700 | 54.1 | 146.1 | 18573 | 16564 | 127 |
| | | 3600 | 55.8 | 201.0 | 23771 | 20944 | 118 |
| | | 855 | 66.2 | 56.6 | 9280 | 8831 | 164 |
| | | 1140 | 67.3 | 76.7 | 11795 | 10880 | 154 |
| BXRC-30G10K0-C-7x-SE | 90 | 1710 | 69.4 | 118.7 | 16336 | 14702 | 138 |
| | | 2565 | 72.1 | 185.0 | 23175 | 19932 | 125 |
| | | 3420 | 74.4 | 254.6 | 29047 | 24408 | 114 |
| | | 1050 | 35.4 | 37.2 | 5979 | 5825 | 161 |
| | | 1400 | 36.2 | 50.6 | 7694 | 7161 | 152 |
| BXRC-30G10K0-D-7x-SE | 90 | 2100 | 37.6 | 79.0 | 10869 | 9782 | 138 |
| - | | 3150 | 39.5 | 124.4 | 15474 | 13038 | 124 |
| | | 4200 | 41.2 | 172.9 | 19503 | 15926 | 113 |
| | | 1050 | 35.4 | 37.2 | 5415 | 5277 | 146 |
| | | 1400 | 36.2 | 50.6 | 6970 | 6486 | 138 |
| BXRC-30H10K0-D-7x-SE | 97 | 2100 | 37.6 | 79.0 | 9845 | 8861 | 125 |
| | , j | 3150 | 39.5 | 124.4 | 14016 | 11810 | 113 |
| | | 4200 | 41.2 | 172.9 | 17665 | 14425 | 102 |
| | | 900 | 49.6 | 44.7 | 6010 | 5486 | 135 |
| | | 1200 | 50.5 | 60.6 | 7914 | 7193 | 131 |
| BXRC-30A10K1-B-73-SE | 93 | 1800 | 52.0 | 93.6 | 11577 | 10420 | 124 |
| B/((0)0/(10/(1 B /) 0E | 93 | 2700 | 54.1 | 146.1 | 16689 | 14883 | 114 |
| | | 3600 | 55.8 | 201.0 | 21360 | 18819 | 106 |
| | | 855 | 66.2 | 56.6 | 8339 | 7935 | 147 |
| | - | 1140 | 67.3 | 76.7 | 10598 | 9776 | 138 |
| BXRC-30A10K1-C-73-SE | 93 | 1710 | 69.4 | 118.7 | 14679 | 13211 | 124 |
| BAIRO JOAGORI O 75 SE | 93 | 2565 | 72.1 | 185.0 | 20824 | 17910 | 113 |
| | - | 3420 | 74.4 | 254.6 | 26100 | 21932 | 103 |
| | | 1050 | 35.4 | 37.2 | 5372 | 5234 | 144 |
| | - | 1400 | 36.2 | 50.6 | 6914 | 6434 | 137 |
| BXRC-30A10K1-D-73-SE | 93 | 2100 | 37.6 | 79.0 | 9767 | 8790 | 124 |
| D/1100 JO/1101/11 D /J JL | 93 | 3150 | 39.5 | 124.4 | 13904 | 11715 | 112 |
| | <u> </u> | 4200 | 41.2 | 172.9 | 17524 | 14310 | 101 |
| | | | | | 8434 | 1 | 189 |
| | | 900 | 49.6 | 44.7 60.6 | 11105 | 7698 | 183 |
| BXRC-35E10K0-B-7x-SE | 80 | 1800 | 50.5 | | 16246 | 10094 | |
| DVVC-22F10V0-D-\X-2E | 00 | 2700 | 52.0 | 93.6 146.1 | 23418 | 14621 20884 | 174 160 |
| | | 2/00 | 54.1 | 140.1 | 23410 | 20004 | 100 |

- 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.

 Table 4: Product Performance at Commonly Used Drive Currents (Continued)

| Part Number | CRI | Drive Current¹ (mA) | Typical V _f T _c = 25°C (V) | Typical Power T _c = 25°C (W) | Typical Flux² T _c = 25°C (lm) | Typical DC Flux³ T _c = 85°C (lm) | Typical Efficacy T _c = 25°C (lm/W) |
|----------------------|-----|---------------------------|--|--|---|--|--|
| | | 855 | 66.2 | 56.6 | 11701 | 11134 | 207 |
| | | 1140 | 67.3 | 76.7 | 14872 | 13718 | 194 |
| BXRC-35E10K0-C-7x-SE | 80 | 1710 | 69.4 | 118.7 | 20598 | 18538 | 174 |
| | | 2565 | 72.1 | 185.0 | 29220 | 25132 | 158 |
| | | 3420 | 74.4 | 254.6 | 36625 | 30775 | 144 |
| | | 1050 | 35.4 | 37.2 | 7538 | 7345 | 203 |
| | | 1400 | 36.2 | 50.6 | 9702 | 9029 | 192 |
| BXRC-35E10K0-D-7x-SE | 80 | 2100 | 37.6 | 79.0 | 13705 | 12334 | 174 |
| | | 3150 | 39.5 | 124.4 | 19511 | 16439 | 157 |
| | | 4200 | 41.2 | 172.9 | 24590 | 20080 | 142 |
| | | 900 | 49.6 | 44.7 | 6931 | 6327 | 155 |
| | | 1200 | 50.5 | 60.6 | 9126 | 8296 | 151 |
| BXRC-35G10K0-B-7x-SE | 90 | 1800 | 52.0 | 93.6 | 13351 | 12016 | 143 |
| | | 2700 | 54.1 | 146.1 | 19246 | 17164 | 132 |
| | | 3600 | 55.8 | 201.0 | 24632 | 21703 | 123 |
| | | 855 | 66.2 | 56.6 | 9616 | 9151 | 170 |
| | | 1140 | 67.3 | 76.7 | 12222 | 11274 | 159 |
| BXRC-35G10K0-C-7x-SE | 90 | 1710 | 69.4 | 118.7 | 16928 | 15235 | 143 |
| | | 2565 | 72.1 | 185.0 | 24014 | 20654 | 130 |
| | | 3420 | 74.4 | 254.6 | 30100 | 25292 | 118 |
| | | 1050 | 35.4 | 37.2 | 6195 | 6036 | 166 |
| | | 1400 | 36.2 | 50.6 | 7973 | 7420 | 157 |
| BXRC-35G10K0-D-7x-SE | 90 | 2100 | 37.6 | 79.0 | 11263 | 10137 | 143 |
| | | 3150 | 39.5 | 124.4 | 16035 | 13511 | 129 |
| | | 4200 | 41.2 | 172.9 | 20209 | 16503 | 117 |
| | | 900 | 49.6 | 44.7 | 6398 | 5840 | 143 |
| | | 1200 | 50.5 | 60.6 | 8424 | 7658 | 139 |
| BXRC-35A10K1-B-73-SE | 93 | 1800 | 52.0 | 93.6 | 12324 | 11092 | 132 |
| , , | | 2700 | 54.1 | 146.1 | 17765 | 15843 | 122 |
| | | 3600 | 55.8 | 201.0 | 22738 | 20033 | 113 |
| | | 855 | 66.2 | 56.6 | 8877 | 8447 | 157 |
| | | 1140 | 67.3 | 76.7 | 11282 | 10407 | 147 |
| BXRC-35A10K1-C-73-SE | 93 | 1710 | 69.4 | 118.7 | 15626 | 14063 | 132 |
| , , | - | 2565 | 72.1 | 185.0 | 22167 | 19065 | 120 |
| | | 3420 | 74.4 | 254.6 | 27784 | 23347 | 109 |
| | | 1050 | 35.4 | 37.2 | 5719 | 5572 | 154 |
| | | 1400 | 36.2 | 50.6 | 7360 | 6849 | 145 |
| BXRC-35A10K1-D-73-SE | 93 | 2100 | 37.6 | 79.0 | 10397 | 9357 | 132 |
| 70 | | 3150 | 39.5 | 124.4 | 14801 | 12471 | 119 |
| | | 4200 | 41.2 | 172.9 | 18655 | 15233 | 108 |
| | | 900 | 49.6 | 44.7 | 8870 | 8096 | 199 |
| | | 1200 | 50.5 | 60.6 | 11679 | 10616 | 193 |
| BXRC-40C10K1-B-74-SE | 70 | 1800 | 52.0 | 93.6 | 17086 | 15377 | 183 |
| - 1 | ′ | 2700 | 54.1 | 146.1 | 24629 | 21965 | 169 |
| | | 3600 | 55.8 | 201.0 | 31523 | 27774 | 157 |

- 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.

Table 4: Product Performance at Commonly Used Drive Currents (Continued)

| Part Number | CRI | Drive Current¹ (mA) | Typical V _f T _c = 25°C (V) | Typical Power T _c = 25°C (W) | Typical Flux² T _c = 25°C (lm) | Typical DC Flux³ T _c = 85°C (lm) | Typical Efficacy T _c = 25°C (lm/W) |
|----------------------|-----|---------------------------|--|--|---|--|--|
| | | 855 | 66.2 | 56.6 | 12306 | 11710 | 217 |
| | | 1140 | 67.3 | 76.7 | 15641 | 14428 | 204 |
| BXRC-40C10K1-C-74-SE | 70 | 1710 | 69.4 | 118.7 | 21663 | 19497 | 183 |
| | ' | 2565 | 72.1 | 185.0 | 30732 | 26432 | 166 |
| | | 3420 | 74.4 | 254.6 | 38519 | 32367 | 151 |
| | | 1050 | 35.4 | 37.2 | 7928 | 7725 | 213 |
| | | 1400 | 36.2 | 50.6 | 10203 | 9496 | 201 |
| BXRC-40C10K1-D-74-SE | 70 | 2100 | 37.6 | 79.0 | 14414 | 12972 | 183 |
| | | 3150 | 39.5 | 124.4 | 20520 | 17290 | 165 |
| | | 4200 | 41.2 | 172.9 | 25862 | 21119 | 150 |
| | | 900 | 49.6 | 44.7 | 8482 | 7743 | 190 |
| | | 1200 | 50.5 | 60.6 | 11168 | 10152 | 184 |
| BXRC-40E10K0-B-7x-SE | 80 | 1800 | 52.0 | 93.6 | 16339 | 14705 | 175 |
| | | 2700 | 54.1 | 146.1 | 23552 | 21004 | 161 |
| | | 3600 | 55.8 | 201.0 | 30145 | 26560 | 150 |
| | | 855 | 66.2 | 56.6 | 11768 | 11198 | 208 |
| | | 1140 | 67.3 | 76.7 | 14957 | 13797 | 195 |
| BXRC-40E10K0-C-7x-SE | 80 | 1710 | 69.4 | 118.7 | 20716 | 18644 | 175 |
| | | 2565 | 72.1 | 185.0 | 29388 | 25276 | 159 |
| | | 3420 | 74.4 | 254.6 | 36835 | 30952 | 145 |
| | | 1050 | 35.4 | 37.2 | 7582 | 7387 | 204 |
| | | 1400 | 36.2 | 50.6 | 9757 | 9081 | 193 |
| BXRC-40E10K0-D-7x-SE | 80 | 2100 | 37.6 | 79.0 | 13783 | 12405 | 175 |
| | | 3150 | 39.5 | 124.4 | 19623 | 16534 | 158 |
| | | 4200 | 41.2 | 172.9 | 24732 | 20196 | 143 |
| | | 900 | 49.6 | 44.7 | 7076 | 6459 | 158 |
| | | 1200 | 50.5 | 60.6 | 9318 | 8470 | 154 |
| BXRC-40G10K0-B-7x-SE | 90 | 1800 | 52.0 | 93.6 | 13631 | 12268 | 146 |
| | | 2700 | 54.1 | 146.1 | 19649 | 17524 | 135 |
| | | 3600 | 55.8 | 201.0 | 25149 | 22158 | 125 |
| | | 855 | 66.2 | 56.6 | 9818 | 9343 | 174 |
| | | 1140 | 67.3 | 76.7 | 12479 | 11511 | 163 |
| BXRC-40G10K0-C-7x-SE | 90 | 1710 | 69.4 | 118.7 | 17283 | 15555 | 146 |
| | | 2565 | 72.1 | 185.0 | 24518 | 21087 | 133 |
| | | 3420 | 74.4 | 254.6 | 30731 | 25823 | 121 |
| | | 1050 | 35.4 | 37.2 | 6325 | 6163 | 170 |
| | | 1400 | 36.2 | 50.6 | 8140 | 7576 | 161 |
| BXRC-40G10K0-D-7x-SE | 90 | 2100 | 37.6 | 79.0 | 11499 | 10349 | 146 |
| | | 3150 | 39.5 | 124.4 | 16371 | 13794 | 132 |
| | | 4200 | 41.2 | 172.9 | 20633 | 16849 | 119 |
| | | 1050 | 35.4 | 37.2 | 5719 | 5572 | 154 |
| | | 1400 | 36.2 | 50.6 | 7360 | 6849 | 145 |
| BXRC-40H10K0-D-7x-SE | 97 | 2100 | 37.6 | 79.0 | 10397 | 9357 | 132 |
| | | 3150 | 39.5 | 124.4 | 14801 | 12471 | 119 |
| | | 4200 | 41.2 | 172.9 | 18655 | 15233 | 108 |

^{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.

Table 4: Product Performance at Commonly Used Drive Currents (Continued)

| Part Number | CRI | Drive Current¹ (mA) | Typical V _f T _c = 25°C (V) | Typical Power T _c = 25°C (W) | Typical Flux² T _c = 25°C (lm) | Typical DC Flux³ T _c = 85°C (lm) | Typical Efficacy T _c = 25°C (lm/W) |
|--------------------------|-----|---------------------------|--|--|---|--|--|
| | | 900 | 49.6 | 44.7 | 6931 | 6327 | 155 |
| | | 1200 | 50.5 | 60.6 | 9126 | 8296 | 151 |
| BXRC-40A10K1-B-73-SE | 93 | 1800 | 52.0 | 93.6 | 13351 | 12016 | 143 |
| | | 2700 | 54.1 | 146.1 | 19246 | 17164 | 132 |
| | | 3600 | 55.8 | 201.0 | 24632 | 21703 | 123 |
| | | 855 | 66.2 | 56.6 | 9616 | 9151 | 170 |
| | | 1140 | 67.3 | 76.7 | 12222 | 11274 | 159 |
| BXRC-40A10K1-C-73-SE | 93 | 1710 | 69.4 | 118.7 | 16928 | 15235 | 143 |
| | Ī | 2565 | 72.1 | 185.0 | 24014 | 20654 | 130 |
| | | 3420 | 74.4 | 254.6 | 30100 | 25292 | 118 |
| | Ì | 1050 | 35.4 | 37.2 | 6195 | 6036 | 166 |
| | | 1400 | 36.2 | 50.6 | 7973 | 7420 | 157 |
| BXRC-40A10K1-D-73-SE | 93 | 2100 | 37.6 | 79.0 | 11263 | 10137 | 143 |
| | | 3150 | 39.5 | 124.4 | 16035 | 13511 | 129 |
| | | 4200 | 41.2 | 172.9 | 20209 | 16503 | 117 |
| | | 900 | 49.6 | 44.7 | 8918 | 8141 | 200 |
| | | 1200 | 50.5 | 60.6 | 11743 | 10674 | 194 |
| BXRC-50C10K1-B-74-SE | 70 | 1800 | 52.0 | 93.6 | 17179 | 15461 | 184 |
| | | 2700 | 54.1 | 146.1 | 24764 | 22085 | 170 |
| | | 3600 | 55.8 | 201.0 | 31695 | 27925 | 158 |
| | | 855 | 66.2 | 56.6 | 12373 | 11774 | 219 |
| | | 1140 | 67.3 | 76.7 | 15726 | 14507 | 205 |
| BXRC-50C10K1-C-74-SE | 70 | 1710 | 69.4 | 118.7 | 21781 | 19603 | 184 |
| , , | | 2565 | 72.1 | 185.0 | 30900 | 26576 | 167 |
| | | 3420 | 74.4 | 254.6 | 38730 | 32544 | 152 |
| | | 1050 | 35.4 | 37.2 | 7971 | 7767 | 214 |
| | | 1400 | 36.2 | 50.6 | 10259 | 9548 | 203 |
| BXRC-50C10K1-D-74-SE | 70 | 2100 | 37.6 | 79.0 | 14492 | 13043 | 184 |
| 2, 11.0 90010111 2 74 02 | , , | 3150 | 39.5 | 124.4 | 20632 | 17384 | 166 |
| | | 4200 | 41.2 | 172.9 | 26004 | 21234 | 150 |
| | | 900 | 49.6 | 44.7 | 8579 | 7831 | 192 |
| | | 1200 | 50.5 | 60.6 | 11296 | 10268 | 187 |
| BXRC-50E10K1-B-74-SE | 80 | 1800 | 52.0 | 93.6 | 16526 | 14873 | 177 |
| | | 2700 | 54.1 | 146.1 | 23822 | 21245 | 163 |
| | | 3600 | 55.8 | 201.0 | 30489 | 26863 | 152 |
| | | 855 | 66.2 | 56.6 | 11903 | 11326 | 210 |
| | | 1140 | 67.3 | 76.7 | 15128 | 13955 | 197 |
| BXRC-50E10K1-C-74-SE | 80 | 1710 | 69.4 | 118.7 | 20953 | 18858 | 177 |
| | | 2565 | 72.1 | 185.0 | 29724 | 25565 | 161 |
| | | 3420 | 74.4 | 254.6 | 37256 | 31306 | 146 |
| | | 1050 | 35.4 | 37.2 | 7668 | 7472 | 206 |
| | | 1400 | 36.2 | 50.6 | 9869 | 9184 | 195 |
| BXRC-50E10K1-D-74-SE | 80 | 2100 | 37.6 | 79.0 | 13941 | 12547 | 177 |
| - 5 7- 5- | - 0 | 3150 | 39.5 | 124.4 | 19847 | 16723 | 160 |
| | | 4200 | 41.2 | 172.9 | 25014 | 20426 | 145 |

- 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.

Table 4: Product Performance at Commonly Used Drive Currents (Continued)

| Part Number | CRI | Drive Current¹ (mA) | Typical V _f T _c = 25°C (V) | Typical Power T _c = 25°C (W) | Typical Flux² T _c = 25°C (lm) | Typical DC Flux³ T _c = 85°C (lm) | Typical Efficacy T _c = 25°C (lm/W) |
|------------------------------|-----|---------------------------|--|--|---|--|--|
| | | 900 | 49.6 | 44.7 | 7416 | 6769 | 166 |
| | | 1200 | 50.5 | 60.6 | 9764 | 8876 | 161 |
| BXRC-50G10K1-B-74-SE | 90 | 1800 | 52.0 | 93.6 | 14285 | 12856 | 153 |
| | | 2700 | 54.1 | 146.1 | 20592 | 18364 | 141 |
| | | 3600 | 55.8 | 201.0 | 26355 | 23221 | 131 |
| | | 855 | 66.2 | 56.6 | 10289 | 9791 | 182 |
| | | 1140 | 67.3 | 76.7 | 13077 | 12063 | 170 |
| BXRC-50G10K1-C-74-SE | 90 | 1710 | 69.4 | 118.7 | 18112 | 16301 | 153 |
| | | 2565 | 72.1 | 185.0 | 25694 | 22099 | 139 |
| | | 3420 | 74.4 | 254.6 | 32205 | 27061 | 127 |
| | | 1050 | 35.4 | 37.2 | 6628 | 6459 | 178 |
| | Ī | 1400 | 36.2 | 50.6 | 8531 | 7939 | 168 |
| BXRC-50G10K1-D-74-SE | 90 | 2100 | 37.6 | 79.0 | 12051 | 10846 | 153 |
| | | 3150 | 39.5 | 124.4 | 17156 | 14455 | 138 |
| | | 4200 | 41.2 | 172.9 | 21623 | 17657 | 125 |
| | | 900 | 49.6 | 44.7 | 7464 | 6813 | 167 |
| | | 1200 | 50.5 | 60.6 | 9828 | 8934 | 162 |
| BXRC-56G10K0-B-74-SE | 80 | 1800 | 52.0 | 93.6 | 14378 | 12941 | 154 |
| , iii o ge die ii o b /4 e c | | 2700 | 54.1 | 146.1 | 20726 | 18484 | 142 |
| | | 3600 | 55.8 | 201.0 | 26527 | 23372 | 132 |
| | | 855 | 66.2 | 56.6 | 10356 | 9855 | 183 |
| | | 1140 | 67.3 | 76.7 | 13162 | 12141 | 172 |
| BXRC-56G10K0-C-74-SE | 80 | 1710 | 69.4 | 118.7 | 18230 | 16407 | 154 |
| | | 2565 | 72.1 | 185.0 | 25862 | 22243 | 140 |
| | | 3420 | 74.4 | 254.6 | 32415 | 27238 | 127 |
| | | 1050 | 35.4 | 37.2 | 6672 | 6501 | 179 |
| | | 1400 | 36.2 | 50.6 | 8586 | 7991 | 170 |
| BXRC-56G10K0-D-74-SE | 80 | 2100 | 37.6 | 79.0 | 12129 | 10916 | 154 |
| , , | | 3150 | 39.5 | 124.4 | 17268 | 14550 | 139 |
| | | 4200 | 41.2 | 172.9 | 21764 | 17772 | 126 |
| | | 1050 | 35.4 | 37.2 | 6022 | 5868 | 162 |
| | | 1400 | 36.2 | 50.6 | 7750 | 7213 | 153 |
| BXRC-56H10K0-D-74-SE | 80 | 2100 | 37.6 | 79.0 | 10948 | 9853 | 139 |
| | | 3150 | 39.5 | 124.4 | 15586 | 13133 | 125 |
| | | 4200 | 41.2 | 172.9 | 19644 | 16041 | 114 |
| | | 900 | 49.6 | 44.7 | 8676 | 7920 | 194 |
| | | 1200 | 50.5 | 60.6 | 11424 | 10384 | 189 |
| BXRC-57C10K1-B-74-SE | 70 | 1800 | 52.0 | 93.6 | 16713 | 15041 | 179 |
| ÷· / / | · | 2700 | 54.1 | 146.1 | 24091 | 21485 | 165 |
| | | 3600 | 55.8 | 201.0 | 30834 | 27167 | 153 |
| | | 855 | 66.2 | 56.6 | 12037 | 11454 | 213 |
| | | 1140 | 67.3 | 76.7 | 15299 | 14112 | 199 |
| BXRC-57C10K1-C-74-SE | 70 | 1710 | 69.4 | 118.7 | 21190 | 19071 | 179 |
| <i>.</i> | · | 2565 | 72.1 | 185.0 | 30060 | 25854 | 162 |
| | | 3420 | 74.4 | 254.6 | 37677 | 31659 | 148 |

- 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.

 Table 4: Product Performance at Commonly Used Drive Currents (Continued)

| Part Number | CRI | Drive Current¹ (mA) | Typical V _f T _c = 25°C (V) | Typical Power T _c = 25°C (W) | Typical Flux² T _c = 25°C (lm) | Typical DC Flux³ T _c = 85°C (lm) | Typical Efficacy T _c = 25°C (lm/W) |
|----------------------|-----|---------------------------|--|--|---|--|--|
| | | 1050 | 35.4 | 37.2 | 7755 | 7556 | 208 |
| | | 1400 | 36.2 | 50.6 | 9980 | 9288 | 197 |
| BXRC-57C10K1-D-74-SE | 70 | 2100 | 37.6 | 79.0 | 14099 | 12689 | 179 |
| | | 3150 | 39.5 | 124.4 | 20071 | 16912 | 161 |
| | | 4200 | 41.2 | 172.9 | 25297 | 20657 | 146 |
| | | 900 | 49.6 | 44.7 | 8240 | 7521 | 184 |
| | | 1200 | 50.5 | 60.6 | 10849 | 9862 | 179 |
| BXRC-57E10K1-B-74-SE | 80 | 1800 | 52.0 | 93.6 | 15872 | 14285 | 170 |
| | | 2700 | 54.1 | 146.1 | 22879 | 20404 | 157 |
| | | 3600 | 55.8 | 201.0 | 29283 | 25801 | 146 |
| | | 855 | 66.2 | 56.6 | 11432 | 10878 | 202 |
| | | 1140 | 67.3 | 76.7 | 14530 | 13403 | 189 |
| BXRC-57E10K1-C-74-SE | 80 | 1710 | 69.4 | 118.7 | 20124 | 18112 | 170 |
| | | 2565 | 72.1 | 185.0 | 28549 | 24554 | 154 |
| | | 3420 | 74.4 | 254.6 | 35783 | 30068 | 141 |
| | | 1050 | 35.4 | 37.2 | 7365 | 7176 | 198 |
| | | 1400 | 36.2 | 50.6 | 9479 | 8821 | 187 |
| BXRC-57E10K1-D-74-SE | 80 | 2100 | 37.6 | 79.0 | 13390 | 12051 | 170 |
| | | 3150 | 39.5 | 124.4 | 19062 | 16062 | 153 |
| | | 4200 | 41.2 | 172.9 | 24025 | 19619 | 139 |
| | | 900 | 49.6 | 44.7 | 8676 | 7920 | 194 |
| | | 1200 | 50.5 | 60.6 | 11424 | 10384 | 189 |
| BXRC-65C10K1-B-74-SE | 70 | 1800 | 52.0 | 93.6 | 16713 | 15041 | 179 |
| | | 2700 | 54.1 | 146.1 | 24091 | 21485 | 165 |
| | | 3600 | 55.8 | 201.0 | 30834 | 27167 | 153 |
| | | 855 | 66.2 | 56.6 | 12037 | 11454 | 213 |
| | | 1140 | 67.3 | 76.7 | 15299 | 14112 | 199 |
| BXRC-65C10K1-C-74-SE | 70 | 1710 | 69.4 | 118.7 | 21190 | 19071 | 179 |
| , , | ' | 2565 | 72.1 | 185.0 | 30060 | 25854 | 162 |
| | | 3420 | 74.4 | 254.6 | 37677 | 31659 | 148 |
| | | 1050 | 35.4 | 37.2 | 7755 | 7556 | 208 |
| | | 1400 | 36.2 | 50.6 | 9980 | 9288 | 197 |
| BXRC-65C10K1-D-74-SE | 70 | 2100 | 37.6 | 79.0 | 14099 | 12689 | 179 |
| | | 3150 | 39.5 | 124.4 | 20071 | 16912 | 161 |
| | | 4200 | 41.2 | 172.9 | 25297 | 20657 | 146 |
| | | 900 | 49.6 | 44.7 | 8337 | 7610 | 187 |
| | | 1200 | 50.5 | 60.6 | 10977 | 9978 | 181 |
| BXRC-65E10K1-B-74-SE | 80 | 1800 | 52.0 | 93.6 | 16059 | 14453 | 172 |
| ,,, | | 2700 | 54.1 | 146.1 | 23149 | 20644 | 158 |
| | | 3600 | 55.8 | 201.0 | 29628 | 26104 | 147 |
| | | 855 | 66.2 | 56.6 | 11566 | 11006 | 204 |
| | | 1140 | 67.3 | 76.7 | 14701 | 13561 | 192 |
| BXRC-65E10K1-C-7x-SE | 80 | 1710 | 69.4 | 118.7 | 20361 | 18325 | 172 |
| 10 11 2 7 11 02 | | 2565 | 72.1 | 185.0 | 28884 | 24843 | 156 |
| | | | | | | | |

- 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.

 Table 4: Product Performance at Commonly Used Drive Currents (Continued)

| Part Number | CRI | Drive Current¹ (mA) | Typical V _f T _c = 25°C (V) | Typical Power T _c = 25°C (W) | Typical Flux² T _c = 25°C (lm) | Typical DC Flux³ T _c = 85°C (lm) | Typical Efficacy T _c = 25°C (lm/W) | |
|----------------------|-----|---------------------------|--|--|---|--|--|------|
| | | 1050 | 35.4 | 37.2 | 7452 | 7261 | 200 | |
| | | | | 1400 | 36.2 | 50.6 | 9590 | 8925 |
| BXRC-65E10K1-D-7x-SE | 80 | 2100 | 37.6 | 79.0 | 13547 | 12192 | 172 | |
| | | 3150 | 39.5 | 124.4 | 19286 | 16251 | 155 | |
| | | 4200 | 41.2 | 172.9 | 24308 | 19849 | 141 | |

- 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.

Electrical Characteristics

Table 5: Electrical Characteristics

| | Di C | Forward Voltage Pulsed, T _c = 25°C (V) ^{1, 2, 3, 8} | | | Typical Coefficient of Forward | Typical Thermal Resistance | Driver Selection Voltages ⁷ (V) | |
|----------------------|-----------------------|--|---------|---------|---|---|---|--|
| Part Number | Drive Current (mA) | Minimum | Typical | Maximum | of Forward Voltage⁴ ∆V _r ∕∆T _c (mV/°C) | Junction to Case ^{5,6} R _{j-c} (°C/W) | V _f Min. Hot T _c = 105°C (V) | V _r Max. Cold T _c = -40°C (V) |
| 5,450 | 1800 | 48.1 | 52.0 | 55.9 | -24.9 | 0.06 | 46.1 | 57.5 |
| BXRC-xxx10Kx-B-7x-SE | 3600 | 51.7 | 55.8 | 60.0 | -24.9 | 0.07 | 49.7 | 61.6 |
| DVDC | 1710 | 64.2 | 69.4 | 74.6 | -33.2 | 0.04 | 61.5 | 76.8 |
| BXRC-xxx10Kx-C-7x-SE | 3420 | 68.8 | 74.4 | 80.0 | -33.2 | 0.05 | 66.2 | 82.2 |
| BXRC-xxx10Kx-D-7x-SE | 2100 | 34.8 | 37.6 | 40.4 | -17.4 | 0.06 | 33.4 | 41.6 |
| | 4200 | 38.1 | 41.2 | 44.3 | -17.4 | 0.07 | 36.7 | 45.4 |

- 1. Parts are tested in pulsed conditions, T_c = 25°C. Pulse width is 10ms.
- 2. Voltage minimum and maximum are provided for reference only and are not a guarantee of performance.
- 3. Bridgelux maintains a tester tolerance of ± 0.10V on forward voltage measurements.
- 4. Typical coefficient of forward voltage tolerance is \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. V₁ min hot and max cold values are provided as reference only and are not guaranteed by test. These values are provided to aid in driver design and selection over the operating range of the product.
- 8. This product has been designed and manufactured per IEC 62031:2014. 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 6: Eye Safety Risk Group (RG) Classifications

| Pout Number | Drive | | | | | | | | |
|----------------------|------------------------------|-------------|--------|--------|--------|--|--|--|--|
| Part Number | Current ⁵ (mA) | 2700K/3000K | 4000K² | 5000K³ | 6500K⁴ | | | | |
| | 1800 | RG1 | RG1 | RG1 | RG1 | | | | |
| BXRC-xxx10Kx-B-7x-SE | 2700 | RG1 | RG1 | RG2 | RG2 | | | | |
| | 3600 | RG1 | RG1 | RG2 | RG2 | | | | |
| | 1710 | RG1 | RG1 | RG1 | RG2 | | | | |
| BXRC-xxx10Kx-C-7x-SE | 2565 | RG1 | RG1 | RG2 | RG2 | | | | |
| | 3420 | RG1 | RG2 | RG2 | RG2 | | | | |
| | 2100 | RG1 | RG1 | RG1 | RG1 | | | | |
| BXRC-xxx10Kx-D-7x-SE | 3150 | RG1 | RG1 | RG1 | RG2 | | | | |
| | 4200 | RG1 | RG1 | RG2 | RG2 | | | | |

- 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, $\rm E_{thr}$ = 1847.5 lx.
- 3. For products classified as RG2 at 5000K $\rm E_{thr}^{-1}$ 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 7: Maximum Ratings

| Parameter | Maximum Rating | | | | |
|--|----------------------|----------------------|----------------------|--|--|
| LED Junction Temperature (T _j) | 150°C | | | | |
| Storage Temperature | -40°C to +105°C | | | | |
| Operating Case Temperature¹ (T _c) | 105°C | | | | |
| | BXRC-xxx10Kx-B-7x-SE | BXRC-xxx10Kx-C-7x-SE | BXRC-xxx10Kx-D-7x-SE | | |
| Maximum Drive Current ³ | 3600mA | 3420mA | 4200mA | | |
| Maximum Peak Pulsed Drive Current ⁴ | 5140mA | 4890mA | 6000mA | | |
| Maximum Reverse Voltage ⁵ | -90V | -120V | -65V | | |

- 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.

Figure 1: Vero SE 29B Drive Current vs. Voltage

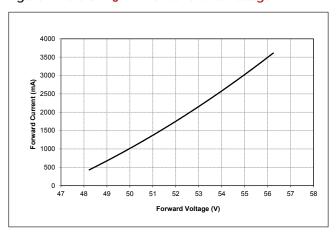


Figure 3: Vero SE 29D Drive Current vs. Voltage

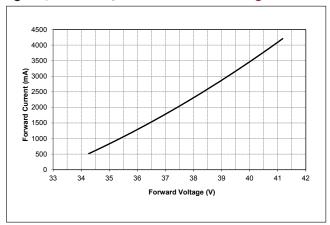


Figure 5: Vero SE 29C Typical Relative Flux vs. Current

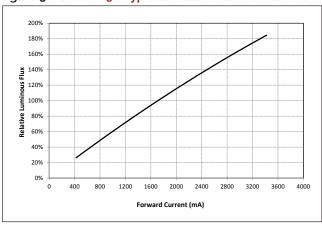


Figure 2: Vero SE 29C Drive Current vs. Voltage

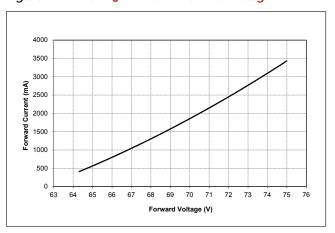


Figure 4: Vero SE 29B Typical Relative Flux vs. Current

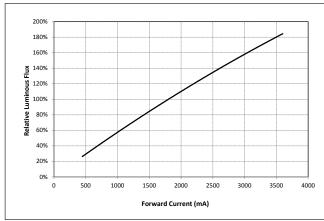
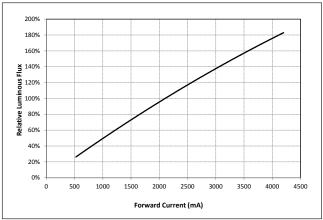


Figure 6 Vero SE 29D Typical Relative Flux vs. Current



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 Tj (junction temperature) Tc (case temperature) 25°C.

Figure 7: Typical DC Flux vs. Case Temperature

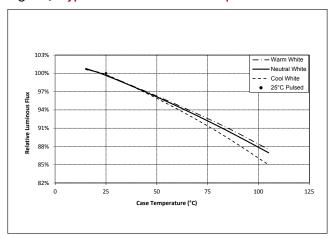


Figure 8: Typical DC ccy Shift vs. Case Temperature

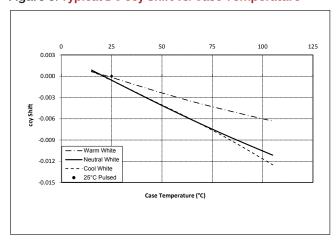


Figure 9: Typical DC ccx Shift vs. Case Temperature

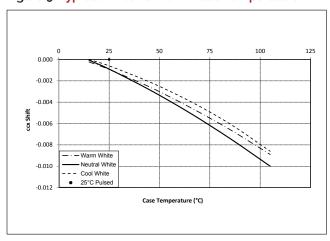
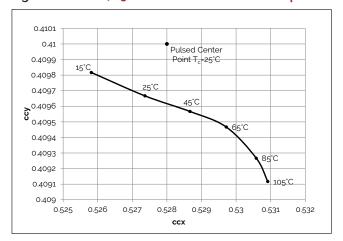


Figure 10: 2000K, 65 CRI Color Shift vs. Case Temperature



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.

Figure 11: 1750K Color Shift vs. Case Temperature¹

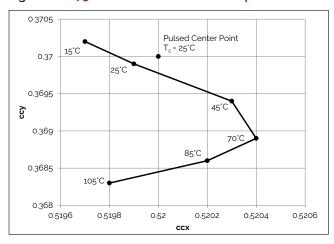


Figure 13: 5600K Color Shift vs. Case Temperature^{1,3}

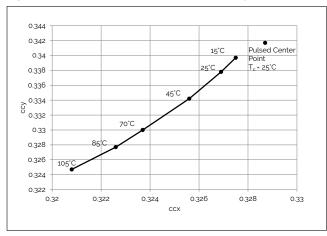
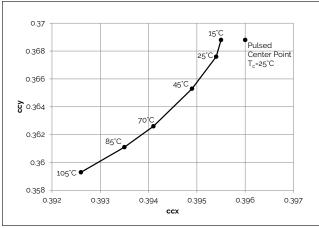


Figure 15: 3500K Class A Color Shift vs. Case Temperature¹



Note for Figures 10-16:

- 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. Color shift shown for product hot targeted at T_c =85 $^{\circ}$ C

Figure 12: 2500K Color Shift vs. Case Temperature¹

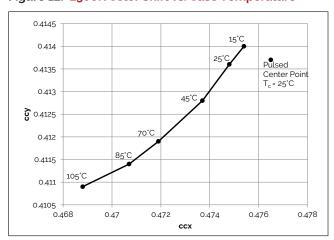


Figure 14: 3000K Class A Color Shift vs. Case Temperature¹

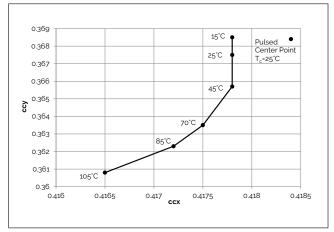
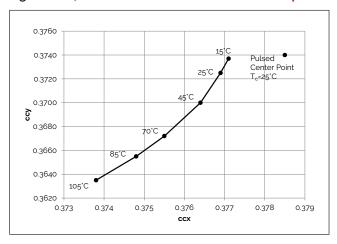


Figure 16: 4000K Class A Color Shift vs. Case Temperature¹



3960 Drive Current (mA) Max Drive Current - LM-80 Max Drive Current Case Temperature (°C)

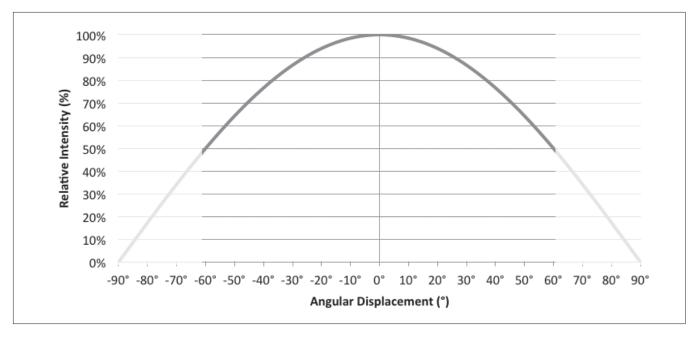
Figure 17: Vero SE 29D Drive Current Derating Curve

Notes for Figure 17:

- 1. The maximum allowable drive current for the Vero 2gD product is dependent on the operating case temperature. Please refer to the Product Feature Map (page 2) for the location of the T_c Point
- 2. LM-80 Max Drive Current must not be exceeded in order to meet LM-80 lifetime projections.
- 3. Lumen maintenance (L70) and lifetime predictions are valid for drive current and case temperature conditions used for LM-80 testing as included in the applicable LM-80 test report for these products. Contact your Bridgelux sales representative for LM-80 report.

Typical Radiation Pattern

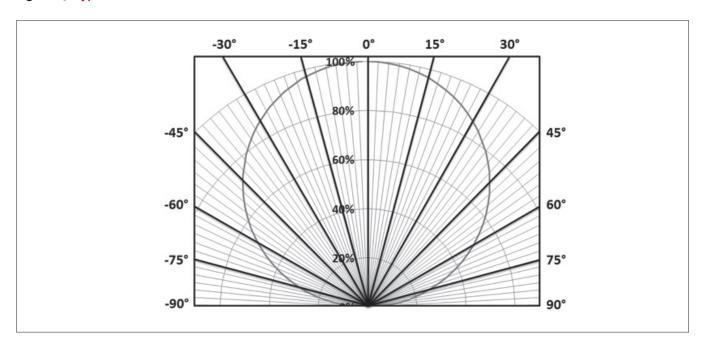
Figure 18: Typical Spatial Radiation Pattern



Note for Figure 18:

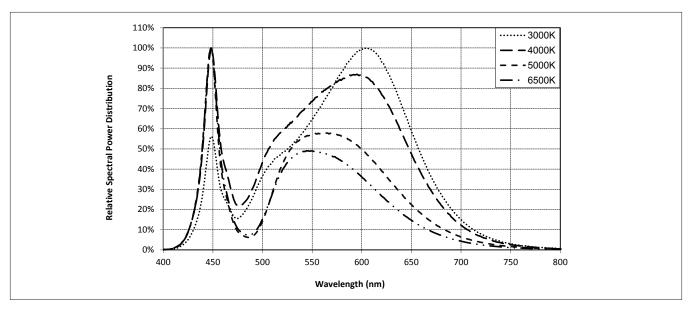
- 1. Typical viewing angle is 120°.
- 2. The viewing angle is defined as the off axis angle from the centerline where intensity is $\frac{1}{2}$ of the peak value.

Figure 19: Typical Polar Radiation Pattern



Typical Color Spectrum

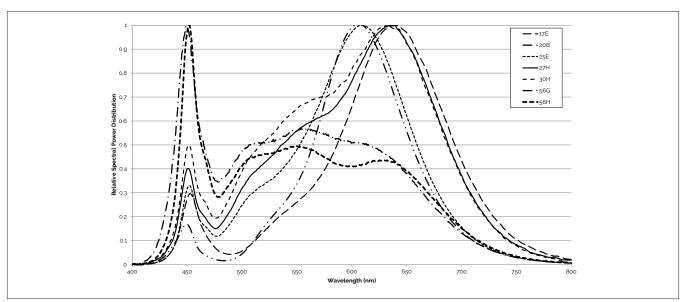
Figure 20: Typical Color Spectrum



Note for Figure 20:

- 1. Color spectra measured at nominal current for T_j = T_c = 25°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 21: Typical Color Spectrum for Vero SE 29 with Décor Series

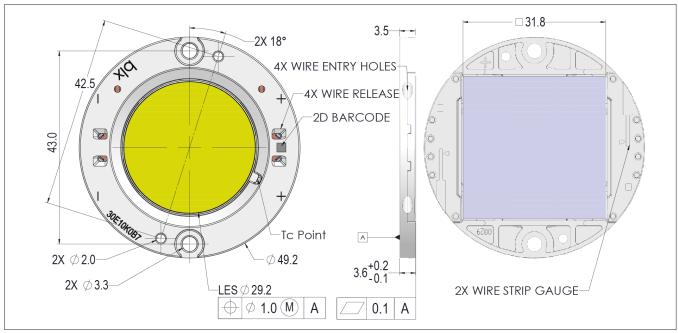


Note for Figure 21:

1. Color spectra measured at nominal current for T_i = T_c = 25°C.

Mechanical Dimensions

Figure 22: Drawing for Vero SE 29 LED Array

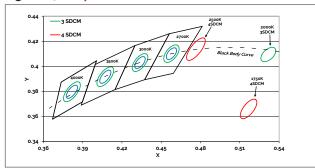


Notes for Figure 22:

- 1. Drawings are not to scale.
- 2. Drawing dimensions are in millimeters.
- 3. Unless otherwise specified, tolerances are ± 0.10mm.
- 4. Mounting holes (2X) are for M3 screws.
- 5. Bridgelux recommends two tapped holes for mounting screws with 43.0 ± 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 \pm 0.2mm.
- 8. Bridgelux maintains a flatness of 0.10mm across the mounting surface of the array.

Color Binning Information

Figure 23: Graph of Warm and Neutral White Test Bins in xy Color Space



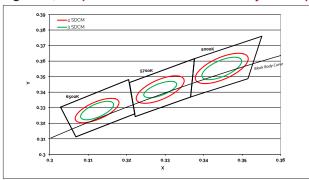
Note: Pulsed Test Conditions, $T_c = 25^{\circ}C$

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

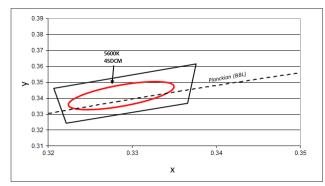
| Bin Code | 1750K | 2500K | 2700K | 3000K1 | 3500K1 | 4000K¹ |
|----------------------------------|-----------------|------------------|------------------|-----------------|------------------|------------------|
| ANSI Bin (for reference only) | - | - | (2580K - 2870K) | (2870K - 3220K) | (3220K - 3710K) | (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, 0.336) | (0.4765, 0.4137) | (0.4578, 0.4101) | (0.4338, 0.403) | (0.4073, 0.3917) | (0.3818, 0.3797) |

Note for Table 8:

Figure 24: Graph of Cool White Test Bins in xy Color Space



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



Note: Pulsed Test Conditions, T_c = 25°C

Table 9: Cool White xy Bin Coordinates and Associated Typical CCT (product is hot targeted to T_c = 85°C)

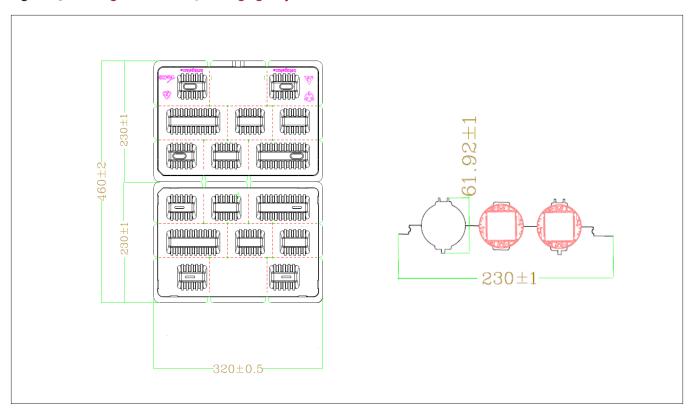
| Bin Code | 5000K | 5600K¹ | 5700K | 6500K |
|-------------------------------|------------------|------------------|------------------|------------------|
| ANSI Bin (for reference only) | (4745K - 5311K) | (5310K - 6020K) | (5312K - 6022K) | (6022K - 7042K) |
| 74 (4 SDCM) | (4801K - 5282K) | (5475K - 5830K) | (5829K - 5481K) | (6270K - 6765K) |
| 73 (3 SDCM) | (4835K - 5215K) | (5490K - 5820K) | (5490K - 5820K) | (6250K - 6745K) |
| Center Point (x,y) | (0.3447, 0.3553) | (0.3293, 0.3423) | (0.3287, 0.3417) | (0.3123, 0.3282) |

^{1.} Color Binning information excludes Class A products. Please contact your Bridgelux Sales Representative for more information.

^{1.} Select configurations with a CCT of 5600K are available with center point targets at T₂ = 85°C or T₂ = 25°C.

Packaging and Labeling

Figure 25: Drawing for Vero SE 29 Packaging Tray

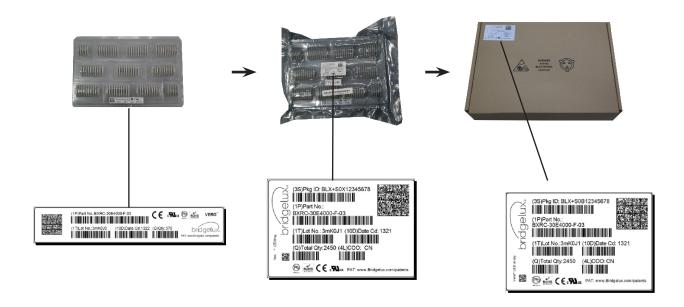


Notes for Figure 25:

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

Packaging and Labeling

Figure 26: Vero SE Series Packaging and Labeling



Notes for Figure 26:

- 1. Each tray holds 50 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 27: 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.

Precautions

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.

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 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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