



Bridgelux® Gen 7 Vero® 10 Array

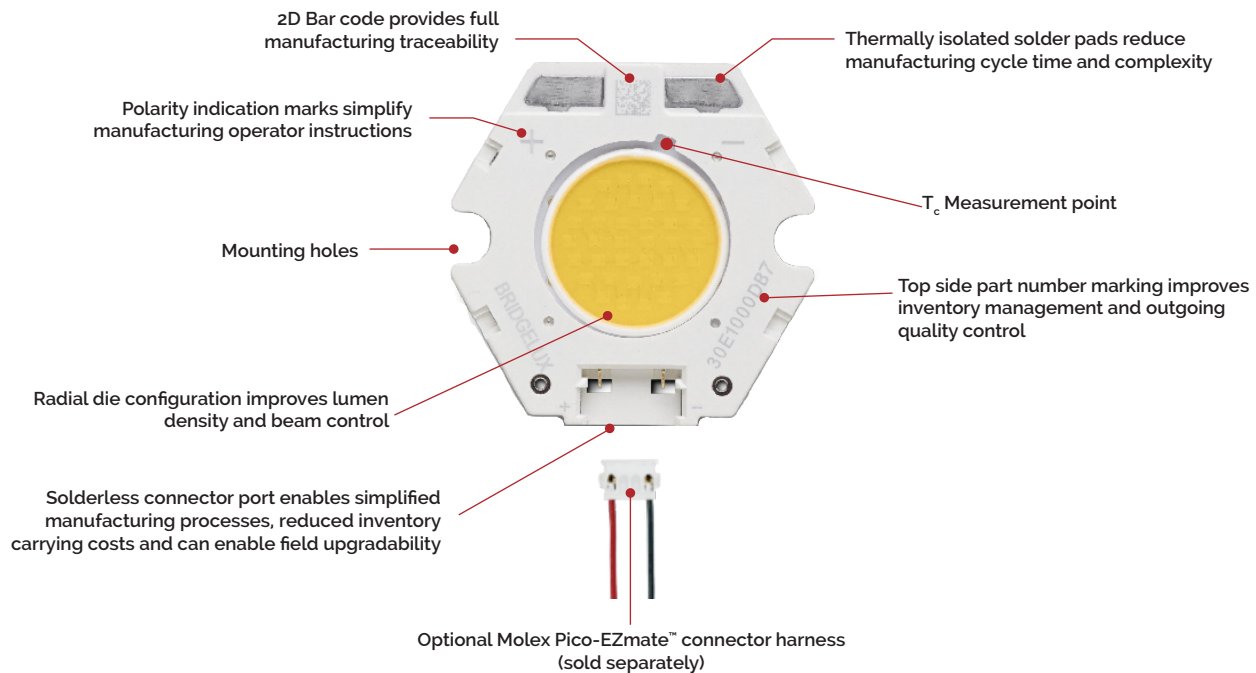
Product Data Sheet DS90



Product Feature Map

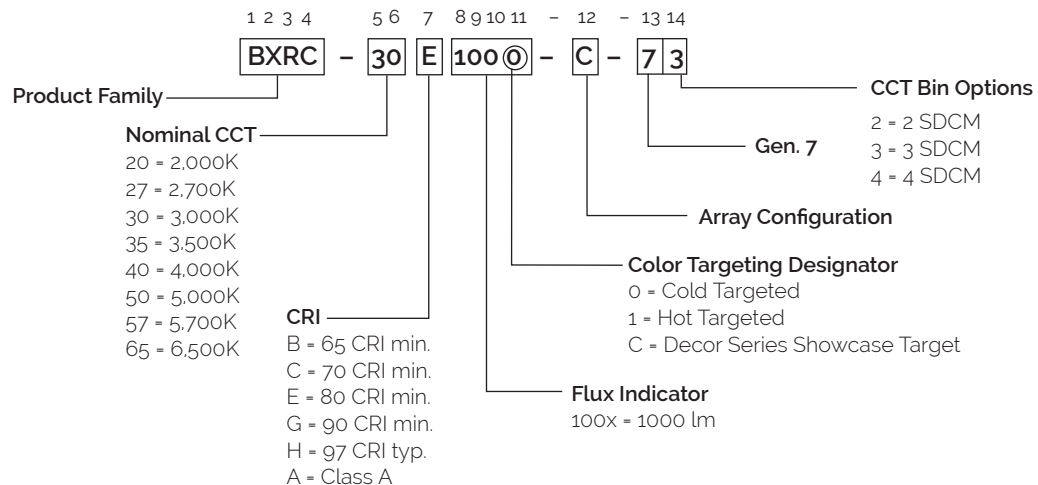
Vero 10 is the smallest form factor in the Vero family of next generation solid state light sources. In addition to delivering the performance and light quality required for many lighting applications, Vero incorporates several

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 Series family of products.



Product Nomenclature

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



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-20B1000-B-73	2000	65	270	1228	1081	33.8	9.1	135
BXRC-20B1000-D-73	2000	65	350	1189	1047	25.3	8.9	134
BXRC-27E1000-B-7x	2700	80	270	1254	1104	33.8	9.1	137
BXRC-27E1000-C-7x	2700	80	360	1672	1472	33.8	12.2	137
BXRC-27E1000-D-7x	2700	80	350	1215	1069	25.3	8.9	137
BXRC-27G10H0-B-7x	2700	90	270	1082	953	33.8	9.1	118
BXRC-27G10H0-C-7x	2700	90	360	1443	1270	33.8	12.2	118
BXRC-27G10H0-D-7x	2700	90	350	1048	923	25.3	8.9	118
BXRC-27G1000-B-7x	2700	90	270	1045	920	33.8	9.1	114
BXRC-27G1000-C-7x	2700	90	360	1394	1226	33.8	12.2	114
BXRC-27G1000-D-7x	2700	90	350	1012	891	25.3	8.9	114
BXRC-27H1000-B-7x	2700	97	270	906	797	34.8	9.4	96
BXRC-27H1000-C-7x	2700	97	360	1208	1063	34.8	12.5	96
BXRC-27H1000-D-7x	2700	97	350	877	772	34.8	12.2	72
BXRC-30C1001-B-74	3000	70	270	1446	1273	33.8	9.1	158
BXRC-30C1001-C-74	3000	70	360	1928	1697	33.8	12.2	158
BXRC-30C1001-D-74	3000	70	350	1400	1232	25.3	8.9	158
BXRC-30E1000-B-7x	3000	80	270	1307	1150	33.8	9.1	143
BXRC-30E1000-C-7x	3000	80	360	1742	1533	33.8	12.2	143
BXRC-30E1000-D-7x	3000	80	350	1265	1114	25.3	8.9	143
BXRC-30G10H0-B-7x	3000	90	270	1142	1005	33.8	9.1	125
BXRC-30G10H0-C-7x	3000	90	360	1522	1339	33.8	12.2	125
BXRC-30G10H0-D-7x	3000	90	350	1106	973	25.3	8.9	125
BXRC-30G1000-B-7x	3000	90	270	1089	958	33.8	9.1	119
BXRC-30G1000-C-7x	3000	90	360	1452	1277	33.8	12.2	119
BXRC-30G1000-D-7x	3000	90	350	1054	928	25.3	8.9	119
BXRC-30G100C-B-73	3000	90	270	1010	889	34.0	9.2	110
BXRC-30G100C-D-73	3000	90	350	979	861	25.3	8.9	111
BXRC-30H1000-B-7x	3000	97	270	976	858	34.8	9.4	104
BXRC-30H1000-C-7x	3000	97	360	1301	1145	34.8	12.5	104
BXRC-30H1000-D-7x	3000	97	350	945	831	34.8	12.2	78
BXRC-30A1001-B-73 ^{7,8}	3000	93	270	981	863	34.8	9.4	104
BXRC-30A1001-C-73 ^{7,8}	3000	93	360	1308	1151	34.8	12.5	104
BXRC-30A1001-D-73 ^{7,8}	3000	93	350	950	836	34.8	12.2	78
BXRC-35E1000-B-7x	3500	80	270	1350	1188	33.8	9.1	148

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 value for 90 CRI products is 50, the minimum Rg value 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.