



Bridgelux® V Series™ HD LED Array: Product Selection Guide PSG-400 Rev. A

Refer to relevant product data sheets for specific information on application and performance.

Product Data sheets available at Bridgelux.com or from Bridgelux Sales Representatives.

The tables below include the base BXRH part number which defines color (CCT), color rendering (CRI) and flux characteristics.

Product Nomenclature – BXRH V Series HD Part Numbers

Product Number: **B X R H – A B C D E F G – H – I J**

B X R H – designates product family

A B – designates nominal CCT color

27 - 2700 K

30 - 3000 K

35 - 3500 K

40 - 4000 K

50 - 5000 K

65 - 6500 K

C - Color Rendering (CRI)

C - 70 CRI

E - 80 CRI

G - 90 CRI

H - 97 CRI

A - Class A

D E F G – designates nominal flux. (Example: 0400 for 400 lumen product)

H - Array Configuration

I - Gen. 7 Technology

J – designates color binning

3 - 3SDCM (3-step)

V Series HD (BXRH) Form Factors



Form Factor	MOQ	Tube Count	LES Diameter	Dimensions	Total Z-Height	Substrate Z-Height
V4 HD	600	40 units	5.2mm	12.50 mm x 12.50 mm	1.7 mm	1.000 mm
V6 HD	600	30 units	7.0mm	13.50 mm x 13.50 mm	1.7 mm	1.000 mm
V9 HD	600	25 units	9.2mm	19.00 mm x 19.00 mm	1.7 mm	1.000 mm

Notes:

1.) Thermal Resistance based on 3000K 80 CRI component.



Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T _a =25°C (lm)	Minimum Pulsed Flux T _a =25°C (lm)	V _f T _a =25°C (V)	Power T _a =25°C (W)	Typical Efficacy T _a =25°C (lm/W)	Thermal Resistance Junction to Case ¹ (C/W)	Typical DC Flux T _a =85°C (lm)	Minimum DC Flux T _a =85°C (lm)	V _f T _a =85°C (V)	Power T _a =85°C (W)	Typical Efficacy T _a =85°C (lm/W)	Data Sheet
V4 HD	BXRH-27E0600-A-73	2700K	80	85	-	379	326	34.1	2.9	131	-	334	287	33.2	2.8	118	DS400
				130	-	558	480	35.3	4.6	122	-	491	423	34.3	4.5	110	
				175	1x	725	624	36.4	6.4	114	0.72	638	549	35.4	6.2	103	
				220	1.25x	881	758	37.3	8.2	107	-	775	667	36.4	8.0	97	
				240	1.4x	947	814	37.8	9.1	104	0.77	833	717	36.8	8.8	94	
V4 HD	BXRH-27G0600-A-73	2700K	90	85	-	316	272	34.1	2.9	109	-	278	239	33.2	2.8	99	DS400
				130	-	465	400	35.3	4.6	101	-	409	352	34.3	4.5	92	
				175	1x	604	520	36.4	6.4	95	0.72	532	457	35.4	6.2	86	
				220	1.25x	734	631	37.3	8.2	89	-	646	556	36.4	8.0	81	
				240	1.4x	789	679	37.8	9.1	87	0.77	694	597	36.8	8.8	79	
V4 HD	BXRH-27H0600-A-73	2700K	97 typ.	85	-	279	240	34.1	2.9	96	-	246	211	33.2	2.8	87	DS400
				130	-	411	354	35.3	4.6	90	-	362	311	34.3	4.5	81	
				175	1x	534	460	36.4	6.4	84	0.72	470	404	35.4	6.2	76	
				220	1.25x	649	558	37.3	8.2	79	-	571	491	36.4	8.0	71	
				240	1.4x	698	600	37.8	9.1	77	0.77	614	528	36.8	8.8	69	
V4 HD	BXRH-30E0600-A-73	3000K	80	85	-	399	343	34.1	2.9	138	-	351	302	33.2	2.8	125	DS400
				130	-	588	505	35.3	4.6	128	-	517	445	34.3	4.5	116	
				175	1x	763	657	36.4	6.4	120	0.72	672	578	35.4	6.2	108	
				220	1.25x	927	797	37.3	8.2	113	-	816	702	36.4	8.0	102	
				240	1.4x	997	857	37.8	9.1	110	0.77	877	754	36.8	8.8	99	
V4 HD	BXRH-30G0600-A-73	3000K	90	85	-	336	289	34.1	2.9	116	-	296	254	33.2	2.8	105	DS400
				130	-	495	425	35.3	4.6	108	-	435	374	34.3	4.5	97	
				175	1x	643	553	36.4	6.4	101	0.72	565	486	35.4	6.2	91	
				220	1.25x	780	671	37.3	8.2	95	-	687	591	36.4	8.0	86	
				240	1.4x	839	721	37.8	9.1	93	0.77	738	635	36.8	8.8	83	
V4 HD	BXRH-30G0600C-A-73	3000K	90	85	-	306	263	34.1	2.9	106	-	269	232	33.2	2.8	96	DS400
				130	-	451	387	35.3	4.6	98	-	397	341	34.3	4.5	89	
				175	1x	585	503	36.4	6.4	92	0.72	515	443	35.4	6.2	83	
				220	1.25x	711	611	37.3	8.2	87	-	626	538	36.4	8.0	78	
				240	1.4x	764	657	37.8	9.1	84	0.77	672	578	36.8	8.8	76	
V4 HD	BXRH-30H0600-A-73	3000K	97 typ.	85	-	296	255	34.1	2.9	102	-	260	224	33.2	2.8	92	DS400
				130	-	436	375	35.3	4.6	95	-	384	330	34.3	4.5	86	
				175	1x	566	487	36.4	6.4	89	0.72	498	428	35.4	6.2	80	
				220	1.25x	688	591	37.3	8.2	84	-	605	520	36.4	8.0	76	
				240	1.4x	739	636	37.8	9.1	82	0.77	651	559	36.8	8.8	74	
V4 HD	BXRH-35A0601-A-73	3500K	93 typ.	85	-	336	289	34.1	2.9	116	-	296	254	33.2	2.8	105	DS400
				130	-	495	425	35.3	4.6	108	-	435	374	34.3	4.5	97	
				175	1x	643	553	36.4	6.4	101	0.72	565	486	35.4	6.2	91	
				220	1.25x	780	671	37.3	8.2	95	-	687	591	36.4	8.0	86	
				240	1.4x	839	721	37.8	9.1	93	0.77	738	635	36.8	8.8	83	
V4 HD	BXRH-35G0600-A-73	3500K	90	85	-	342	295	34.1	2.9	118	-	301	259	33.2	2.8	107	DS400
				130	-	504	434	35.3	4.6	110	-	444	382	34.3	4.5	99	
				175	1x	655	564	36.4	6.4	103	0.72	577	496	35.4	6.2	93	
				220	1.25x	796	684	37.3	8.2	97	-	700	602	36.4	8.0	87	
				240	1.4x	856	736	37.8	9.1	94	0.77	753	647	36.8	8.8	85	
V4 HD	BXRH-40E0600-A-73	4000K	80	85	-	416	357	34.1	2.9	143	-	366	315	33.2	2.8	130	DS400
				130	-	612	526	35.3	4.6	134	-	539	463	34.3	4.5	121	
				175	1x	795	684	36.4	6.4	125	0.72	700	602	35.4	6.2	113	
				220	1.25x	966	831	37.3	8.2	118	-	850	731	36.4	8.0	106	
				240	1.4x	1038	893	37.8	9.1	115	0.77	914	786	36.8	8.8	103	
V4 HD	BXRH-40G0600-A-73	4000K	90	85	-	352	303	34.1	2.9	122	-	310	267	33.2	2.8	110	DS400
				130	-	519	446	35.3	4.6	113	-	457	393	34.3	4.5	102	
				175	1x	674	580	36.4	6.4	106	0.72	593	510	35.4	6.2	96	
				220	1.25x	819	704	37.3	8.2	100	-	721	620	36.4	8.0	90	
				240	1.4x	880	757	37.8	9.1	97	0.77	775	666	36.8	8.8	88	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T _c =25°C (lm)	Minimum Pulsed Flux T _c =25°C (lm)	V _f T _c =25°C (V)	Power T _c =25°C (W)	Typical Efficacy T _c =25°C (lm/W)	Thermal Resistance Junction to Case ¹ (C/W)	Typical DC Flux T _c =85°C (lm)	Minimum DC Flux T _c =85°C (lm)	V _f T _c =85°C (V)	Power T _c =85°C (W)	Typical Efficacy T _c =85°C (lm/W)	Data Sheet
V6 HD	BXRH-27E1000-B-73	2700K	80	175	-	810	696	34.2	6.0	135	-	712	613	33.2	5.8	123	DS401
				250	-	1119	962	35.2	8.8	127	-	984	847	34.2	8.6	115	
				350	1x	1502	1292	36.4	12.7	118	0.36	1322	1137	35.4	12.4	107	
				440	1.25x	1826	1571	37.3	16.4	111	-	1607	1382	36.4	16.0	100	
				480	1.4x	1963	1688	37.7	18.1	108	0.39	1727	1485	36.8	17.6	98	
V6 HD	BXRH-27G1000-B-73	2700K	90	175	-	672	578	34.2	6.0	112	-	592	509	33.2	5.8	102	DS401
				250	-	929	799	35.2	8.8	106	-	817	703	34.2	8.6	96	
				350	1x	1248	1073	36.4	12.7	98	0.36	1098	944	35.4	12.4	89	
				440	1.25x	1517	1305	37.3	16.4	92	-	1335	1148	36.4	16.0	83	
				480	1.4x	1630	1402	37.7	18.1	90	0.39	1434	1234	36.8	17.6	81	
V6 HD	BXRH-27H1000-B-73	2700K	97 typ.	175	-	597	513	34.2	6.0	100	-	525	452	33.2	5.8	90	DS401
				250	-	825	709	35.2	8.8	94	-	726	624	34.2	8.6	85	
				350	1x	1108	952	36.4	12.7	87	0.36	975	838	35.4	12.4	79	
				440	1.25x	1347	1158	37.3	16.4	82	-	1185	1019	36.4	16.0	74	
				480	1.4x	1447	1245	37.7	18.1	80	0.39	1273	1095	36.8	17.6	72	
V6 HD	BXRH-30E1000-B-73	3000K	80	175	-	858	738	34.2	6.0	143	-	755	649	33.2	5.8	130	DS401
				250	-	1185	1019	35.2	8.8	135	-	1043	897	34.2	8.6	122	
				350	1x	1591	1368	36.4	12.7	125	0.36	1400	1204	35.4	12.4	113	
				440	1.25x	1935	1664	37.3	16.4	118	-	1703	1464	36.4	16.0	106	
				480	1.4x	2079	1788	37.7	18.1	115	0.39	1830	1574	36.8	17.6	104	
V6 HD	BXRH-30G1000-B-73	3000K	90	175	-	720	620	34.2	6.0	120	-	634	545	33.2	5.8	109	DS401
				250	-	995	856	35.2	8.8	113	-	876	753	34.2	8.6	102	
				350	1x	1337	1150	36.4	12.7	105	0.36	1176	1012	35.4	12.4	95	
				440	1.25x	1625	1398	37.3	16.4	99	-	1430	1230	36.4	16.0	89	
				480	1.4x	1747	1502	37.7	18.1	96	0.39	1537	1322	36.8	17.6	87	
V6 HD	BXRH-30G100C-B-73	3000K	90	175	-	659	566	34.2	6.0	110	-	580	498	33.2	5.8	100	DS401
				250	-	910	783	35.2	8.8	103	-	801	689	34.2	8.6	94	
				350	1x	1222	1051	36.4	12.7	96	0.36	1075	925	35.4	12.4	87	
				440	1.25x	1486	1278	37.3	16.4	90	-	1308	1125	36.4	16.0	82	
				480	1.4x	1597	1373	37.7	18.1	88	0.39	1405	1208	36.8	17.6	80	
V6 HD	BXRH-30H1000-B-73	3000K	97 typ.	175	-	631	543	34.2	6.0	106	-	555	478	33.2	5.8	96	DS401
				250	-	872	750	35.2	8.8	99	-	767	660	34.2	8.6	90	
				350	1x	1171	1007	36.4	12.7	92	0.36	1031	886	35.4	12.4	83	
				440	1.25x	1424	1225	37.3	16.4	87	-	1253	1078	36.4	16.0	78	
				480	1.4x	1530	1316	37.7	18.1	84	0.39	1347	1158	36.8	17.6	76	
V6 HD	BXRH-35A1001-B-73	3500K	93 typ.	175	-	720	620	34.2	6.0	120	-	634	545	33.2	5.8	109	DS401
				250	-	995	856	35.2	8.8	113	-	876	753	34.2	8.6	102	
				350	1x	1337	1150	36.4	12.7	105	0.36	1176	1012	35.4	12.4	95	
				440	1.25x	1625	1398	37.3	16.4	99	-	1430	1230	36.4	16.0	89	
				480	1.4x	1747	1502	37.7	18.1	96	0.39	1537	1322	36.8	17.6	87	
V6 HD	BXRH-35G1000-B-73	3500K	90	175	-	734	631	34.2	6.0	123	-	646	556	33.2	5.8	111	DS401
				250	-	1014	872	35.2	8.8	115	-	893	768	34.2	8.6	104	
				350	1x	1362	1171	36.4	12.7	107	0.36	1199	1031	35.4	12.4	97	
				440	1.25x	1656	1424	37.3	16.4	101	-	1457	1253	36.4	16.0	91	
				480	1.4x	1780	1531	37.7	18.1	98	0.39	1566	1347	36.8	17.6	89	
V6 HD	BXRH-40E1000-B-73	4000K	80	175	-	892	767	34.2	6.0	149	-	785	675	33.2	5.8	135	DS401
				250	-	1232	1060	35.2	8.8	140	-	1084	933	34.2	8.6	127	
				350	1x	1655	1423	36.4	12.7	130	0.36	1456	1252	35.4	12.4	118	
				440	1.25x	2012	1731	37.3	16.4	123	-	1771	1523	36.4	16.0	111	
				480	1.4x	2162	1860	37.7	18.1	119	0.39	1903	1636	36.8	17.6	108	
V6 HD	BXRH-40G1000-B-73	4000K	90	175	-	755	649	34.2	6.0	126	-	664	571	33.2	5.8	114	DS401
				250	-	1043	897	35.2	8.8	119	-	918	789	34.2	8.6	107	
				350	1x	1400	1204	36.4	12.7	110	0.36	1232	1060	35.4	12.4	99	
				440	1.25x	1703	1464	37.3	16.4	104	-	1498	1289	36.4	16.0	94	
				480	1.4x	1830	1574	37.7	18.1	101	0.39	1610	1385	36.8	17.6	91	

Form Factor	Part Number	CCT (Nominal)	CRI (min)	Current (mA)	Rated Current	Typical Pulsed Flux T _c =25°C (lm)	Minimum Pulsed Flux T _c =25°C (lm)	V _f T _c =25°C (V)	Power T _c =25°C (W)	Typical Efficacy T _c =25°C (lm/W)	Thermal Resistance Junction to Case ¹ (C/W)	Typical DC Flux T _c =85°C (lm)	Minimum DC Flux T _c =85°C (lm)	V _f T _c =85°C (V)	Power T _c =85°C (W)	Typical Efficacy T _c =85°C (lm/W)	Data Sheet
V9 HD	BXRH-27E3000-D-73	2700K	80	350	-	1719	1478	34.2	12.0	144	-	1513	1301	33.4	11.7	129	DS402
				500	-	2396	2061	35.2	17.6	136	-	2109	1813	34.4	17.2	123	
				700	1x	3240	2787	36.4	25.5	127	0.18	2852	2452	35.6	24.9	114	
				875	1.25x	3936	3385	37.4	32.7	120	-	3464	2979	36.6	32.0	108	
				960	1.4x	4255	3659	37.9	36.4	117	0.19	3744	3220	37.1	35.6	105	
V9 HD	BXRH-27G3000-D-73	2700K	90	350	-	1435	1234	34.2	12.0	120	-	1263	1086	33.4	11.7	108	DS402
				500	-	2000	1720	35.2	17.6	114	-	1760	1513	34.4	17.2	102	
				700	1x	2705	2326	36.4	25.5	106	0.18	2380	2047	35.6	24.9	95	
				875	1.25x	3285	2825	37.4	32.7	100	-	2891	2486	36.6	32.0	90	
				960	1.4x	3551	3054	37.9	36.4	98	0.19	3125	2688	37.1	35.6	88	
V9 HD	BXRH-27H3000-D-73	2700K	97 typ.	350	-	1272	1094	34.2	12.0	106	-	1120	963	33.4	11.7	96	DS402
				500	-	1773	1525	35.2	17.6	101	-	1561	1342	34.4	17.2	91	
				700	1x	2398	2063	36.4	25.5	94	0.18	2111	1815	35.6	24.9	85	
				875	1.25x	2913	2505	37.4	32.7	89	-	2564	2205	36.6	32.0	80	
				960	1.4x	3149	2708	37.9	36.4	87	0.19	2771	2383	37.1	35.6	78	
V9 HD	BXRH-30E3000-D-73	3000K	80	350	-	1814	1560	34.2	12.0	151	-	1596	1373	33.4	11.7	137	DS402
				500	-	2528	2174	35.2	17.6	144	-	2225	1913	34.4	17.2	129	
				700	1x	3419	2940	36.4	25.5	134	0.18	3009	2587	35.6	24.9	121	
				875	1.25x	4153	3572	37.4	32.7	127	-	3655	3143	36.6	32.0	114	
				960	1.4x	4489	3861	37.9	36.4	123	0.19	3951	3398	37.1	35.6	111	
V9 HD	BXRH-30G3000-D-73	3000K	90	350	-	1529	1315	34.2	12.0	128	-	1346	1157	33.4	11.7	115	DS402
				500	-	2132	1833	35.2	17.6	121	-	1876	1613	34.4	17.2	109	
				700	1x	2883	2480	36.4	25.5	113	0.18	2537	2182	35.6	24.9	102	
				875	1.25x	3502	3012	37.4	32.7	107	-	3082	2650	36.6	32.0	96	
				960	1.4x	3786	3256	37.9	36.4	104	0.19	3332	2865	37.1	35.6	94	
V9 HD	BXRH-30G300C-D-73	3000K	90	350	-	1394	1199	34.2	12.0	116	-	1227	1055	33.4	11.7	105	DS402
				500	-	1943	1671	35.2	17.6	110	-	1710	1471	34.4	17.2	99	
				700	1x	2628	2260	36.4	25.5	103	0.18	2313	1989	35.6	24.9	93	
				875	1.25x	3192	2745	37.4	32.7	97	-	2809	2416	36.6	32.0	88	
				960	1.4x	3451	2968	37.9	36.4	95	0.19	3037	2612	37.1	35.6	85	
V9 HD	BXRH-30H3000-D-73	3000K	97 typ.	350	-	1340	1152	34.2	12.0	112	-	1179	1014	33.4	11.7	101	DS402
				500	-	1868	1606	35.2	17.6	106	-	1644	1414	34.4	17.2	96	
				700	1x	2526	2172	36.4	25.5	99	0.18	2223	1912	35.6	24.9	89	
				875	1.25x	3068	2639	37.4	32.7	94	-	2700	2322	36.6	32.0	84	
				960	1.4x	3317	2852	37.9	36.4	91	0.19	2919	2510	37.1	35.6	82	
V9 HD	BXRH-35A1001-D-73	3500K	93 typ.	350	-	1529	1315	34.2	12.0	128	-	1346	1157	33.4	11.7	115	DS402
				500	-	2132	1833	35.2	17.6	121	-	1876	1613	34.4	17.2	109	
				700	1x	2883	2480	36.4	25.5	113	0.18	2537	2182	35.6	24.9	102	
				875	1.25x	3502	3012	37.4	32.7	107	-	3082	2650	36.6	32.0	96	
				960	1.4x	3786	3256	37.9	36.4	104	0.19	3332	2865	37.1	35.6	94	
V9 HD	BXRH-35G3000-D-73	3500K	90	350	-	1556	1339	34.2	12.0	130	-	1370	1178	33.4	11.7	117	DS402
				500	-	2170	1866	35.2	17.6	123	-	1909	1642	34.4	17.2	111	
				700	1x	2934	2523	36.4	25.5	115	0.18	2582	2221	35.6	24.9	104	
				875	1.25x	3564	3065	37.4	32.7	109	-	3137	2697	36.6	32.0	98	
				960	1.4x	3853	3313	37.9	36.4	106	0.19	3391	2916	37.1	35.6	95	
V9 HD	BXRH-40E3000-D-73	4000K	80	350	-	1881	1618	34.2	12.0	157	-	1656	1424	33.4	11.7	142	DS402
				500	-	2622	2255	35.2	17.6	149	-	2308	1985	34.4	17.2	134	
				700	1x	3547	3050	36.4	25.5	139	0.18	3121	2684	35.6	24.9	125	
				875	1.25x	4308	3705	37.4	32.7	132	-	3791	3260	36.6	32.0	118	
				960	1.4x	4657	4005	37.9	36.4	128	0.19	4098	3524	37.1	35.6	115	
V9 HD	BXRH-40G3000-D-73	4000K	90	350	-	1597	1373	34.2	12.0	133	-	1405	1209	33.4	11.7	120	DS402
				500	-	2226	1915	35.2	17.6	126	-	1959	1685	34.4	17.2	114	
				700	1x	3011	2589	36.4	25.5	118	0.18	2649	2279	35.6	24.9	106	
				875	1.25x	3657	3145	37.4	32.7	112	-	3218	2768	36.6	32.0	100	
				960	1.4x	3953	3400	37.9	36.4	109	0.19	3479	2992	37.1	35.6	98	