



# LUXEON CoB Core Range

Uniform, high efficacy and easy to design array



LUXEON CoB represents a new breakthrough for arrays. The efficacies will be >160 lm/W for 70CRI and 80CRI products. Due to its small Light Emitting Surface (LES) and industry-leading thermal resistance, LUXEON CoB is easy to work with, enabling simplified and less expensive luminaire designs. LUXEON CoBs are hot-tested at 85°C—real world operating conditions—which means additional testing can be minimized. LUXEON CoB LEDs are available in 3-step MacAdam ellipse, ensuring uniform optical performance in a wide range of applications.

## FEATURES AND BENEFITS

- Highest flux densities with industry's smallest LES
- 3-step MacAdam ellipse color definition: *Freedom from Binning* for color consistency from luminaire to luminaire
- Up to 4x lower thermal resistance than competition, enabling smaller heatsinks and higher lumens
- Supported by a comprehensive optical, mechanical and electrical ecosystem

## PRIMARY APPLICATIONS

- Spotlights
- Track Lights
- Downlights
- High Bay
- Low Bay
- Floodlights
- [More...](#)

LUXEON CoB Core Range product performance at specified test current, T<sub>j</sub>=85°C.

PRODUCT	NOMINAL CCT	MINIMUM CRI <sup>[1, 2, 3]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES <sup>[4]</sup> (mm)	ENERGY EFFICIENCY CLASS <sup>[5]</sup>	PART NUMBER
			MINIMUM	TYPICAL					
LUXEON CoB 1202s	2200K	80	675	750	109	200	6	F	L2C5-22801202E0600
	2700K	80	797	886	128	200	6	E	L2C5-27801202E0600
	3000K	80	837	930	135	200	6	E	L2C5-30801202E0600
	3500K	80	854	949	138	200	6	E	L2C5-35801202E0600
	4000K	80	863	959	139	200	6	E	L2C5-40801202E0600
	5000K	80	863	959	139	200	6	E	L2C5-50801202E0600
	5700K	80	869	966	140	200	6	E	L2C5-57801202E0600
	2200K	90	589	654	95	200	6	F	L2C5-22901202E0600
	2700K	90	662	736	107	200	6	F	L2C5-27901202E0600
	3000K	90	689	766	111	200	6	F	L2C5-30901202E0600
	3500K	90	725	805	117	200	6	F	L2C5-35901202E0600
	4000K	90	742	824	119	200	6	E	L2C5-40901202E0600
LUXEON CoB 1202	3000K	70	923	1026	149	200	9	D	L2C5-30701202E0900
	3500K	70	923	1026	149	200	9	D	L2C5-35701202E0900
	4000K	70	968	1075	156	200	9	D	L2C5-40701202E0900
	5000K	70	968	1075	156	200	9	D	L2C5-50701202E0900
	5700K	70	942	1047	152	200	9	D	L2C5-57701202E0900
	2200K	80	703	781	113	200	9	F	L2C5-22801202E0900
	2700K	80	830	922	134	200	9	E	L2C5-27801202E0900
	3000K	80	876	973	141	200	9	E	L2C5-30801202E0900
	3500K	80	893	992	144	200	9	E	L2C5-35801202E0900
	4000K	80	899	999	145	200	9	E	L2C5-40801202E0900
	5000K	80	899	999	145	200	9	E	L2C5-50801202E0900
	2200K	90	625	694	101	200	9	F	L2C5-22901202E0900
	2700K	90	689	766	111	200	9	F	L2C5-27901202E0900
	3000K	90	729	810	117	200	9	F	L2C5-30901202E0900
	3500K	90	752	836	121	200	9	E	L2C5-35901202E0900
	4000K	90	772	858	124	200	9	E	L2C5-40901202E0900

Notes:

1. Lumileds maintains a tolerance of ±2 on CRI and ±6.5% on luminous flux measurements.
2. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.
3. R9 value of 90CRI products is >50.
4. Light Emitting Surface (LES) is the inner diameter (phosphor area) inside the dam.
5. Energy efficiency class as specified in Commission Delegated Regulation (EU) 2019/2015. The available range of energy efficiency classes is A-G.
6. Exception: Not available in EU or UK.

LUXEON CoB Core Range product performance at specified test current, T<sub>j</sub>=85°C (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI <sup>[1, 2, 3]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES <sup>[4]</sup> (mm)	ENERGY EFFICIENCY CLASS <sup>[5]</sup>	PART NUMBER
			MINIMUM	TYPICAL					
LUXEON CoB 1203	3000K	70	1475	1639	160	300	9	D	L2C5-30701203F0900
		70	1379	1532	148	300	9	D	L2C5-30701203E0900
	3500K	70	1379	1532	148	300	9	D	L2C5-35701203E0900
	4000K	70	1569	1743	170	300	9	D	L2C5-40701203F0900
		70	1466	1629	157	300	9	D	L2C5-40701203E0900
	5000K	70	1466	1629	157	300	9	D	L2C5-50701203E0900
	5700K	70	1428	1587	153	300	9	D	L2C5-57701203E0900
	6500K	70	1391	1546	149	300	9	D	L2C5-65701203E0900
	2200K	80	1066	1184	114	300	9	F	L2C5-22801203E0900
	2700K	80	1359	1510	147	300	9	D	L2C5-27801203F0900
		80	1258	1398	135	300	9	E	L2C5-27801203E0900
	3000K	80	1392	1547	151	300	9	D	L2C5-30801203F0900
		80	1289	1432	138	300	9	E	L2C5-30801203E0900
	3500K	80	1420	1578	154	300	9	D	L2C5-35801203F0900
		80	1315	1461	141	300	9	E	L2C5-35801203E0900
	4000K	80	1472	1635	159	300	9	D	L2C5-40801203F0900
		80	1363	1514	146	300	9	D	L2C5-40801203E0900
	5000K	80	1472	1635	159	300	9	D	L2C5-50801203F0900
		80	1363	1514	146	300	9	D	L2C5-50801203E0900
	5700K	80	1359	1510	146	300	9	D	L2C5-57801203E0900
	2200K	90	929	1032	100	300	9	F	L2C5-22901203E0900
	2700K	90	1170	1300	127	300	9	E	L2C5-27901203F0900
		90	1045	1161	112	300	9	F	L2C5-27901203E0900
	3000K	90	1210	1344	131	300	9	E	L2C5-30901203F0900
		90	1080	1200	116	300	9	F	L2C5-30901203E0900
	3500K	90	1258	1398	136	300	9	E	L2C5-35901203F0900
		90	1140	1267	122	300	9	E	L2C5-35901203E0900
	4000K	90	1251	1390	135	300	9	E	L2C5-40901203F0900
		90	1171	1301	126	300	9	E	L2C5-40901203E0900
	2700K	95	999	1110	108	300	9	F	L2C5-27951203F0900
3000K	95	1053	1170	114	300	9	F	L2C5-30951203F0900	
4000K	95	1194	1327	129	300	9	E	L2C5-40951203F0900	

Notes:

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2. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.
3. R9 value of 90CRI products is >50.
4. Light Emitting Surface (LES) is the inner diameter (phosphor area) inside the dam.
5. Energy efficiency class as specified in Commission Delegated Regulation (EU) 2019/2015. The available range of energy efficiency classes is A-G.
6. Exception: Not available in EU or UK.

LUXEON CoB Core Range product performance at specified test current, T<sub>j</sub>=85°C (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI <sup>[1, 2, 3]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES <sup>[4]</sup> (mm)	ENERGY EFFICIENCY CLASS <sup>[5]</sup>	PART NUMBER
			MINIMUM	TYPICAL					
LUXEON CoB 1204	3000K	70	2124	2360	151	450	13	D	L2C5-30701204E1300
	3500K	70	2124	2360	151	450	13	D	L2C5-35701204E1300
	4000K	70	2258	2509	161	450	13	D	L2C5-40701204E1300
	5000K	70	2258	2509	161	450	13	D	L2C5-50701204E1300
	5700K	70	2199	2443	156	450	13	D	L2C5-57701204E1300
	6500K	70	2142	2380	152	450	13	D	L2C5-65701204E1300
	2200K	80	1641	1823	117	450	13	F	L2C5-22801204E1300
	2700K	80	2092	2324	149	450	13	D	L2C5-27801204F1300
		80	1937	2152	138	450	13	E	L2C5-27801204E1300
	3000K	80	2138	2376	152	450	13	D	L2C5-30801204F1300
		80	1980	2200	141	450	13	E	L2C5-30801204E1300
	3500K	80	2020	2244	144	450	13	E	L2C5-35801204E1300
	4000K	80	2260	2511	161	450	13	D	L2C5-40801204F1300
		80	2099	2332	149	450	13	D	L2C5-40801204E1300
	5000K	80	2099	2332	149	450	13	D	L2C5-50801204E1300
	5700K	80	2093	2325	149	450	13	D	L2C5-57801204E1300
	2200K <sup>[5]</sup>	90	1430	1589	102	450	13	F	L2C5-22901204E1300
	2700K	90	1803	2003	128	450	13	E	L2C5-27901204F1300
		90	1609	1788	115	450	13	F	L2C5-27901204E1300
	3000K	90	1855	2061	132	450	13	E	L2C5-30901204F1300
		90	1656	1840	118	450	13	F	L2C5-30901204E1300
	3500K	90	1929	2143	137	450	13	E	L2C5-35901204F1300
		90	1755	1950	125	450	13	E	L2C5-35901204E1300
	4000K	90	1803	2003	128	450	13	E	L2C5-40901204E1300

Notes:

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3. R9 value of 90CRI products is >50.
4. Light Emitting Surface (LES) is the inner diameter (phosphor area) inside the dam.
5. Energy efficiency class as specified in Commission Delegated Regulation (EU) 2019/2015. The available range of energy efficiency classes is A-G.
6. Exception: Not available in EU or UK.

LUXEON CoB Core Range product performance at specified test current, T<sub>j</sub>=85°C (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI <sup>[1, 2, 3]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES <sup>[4]</sup> (mm)	ENERGY EFFICIENCY CLASS <sup>[5]</sup>	PART NUMBER
			MINIMUM	TYPICAL					
LUXEON CoB 1205	3000K	70	2958	3287	158	600	13	D	L2C5-30701205F1300
		70	2765	3072	146	600	13	D	L2C5-30701205E1300
	3500K	70	2765	3072	146	600	13	D	L2C5-35701205E1300
	4000K	70	3137	3486	167	600	13	D	L2C5-40701205F1300
		70	2932	3258	155	600	13	D	L2C5-40701205E1300
	5000K	70	2932	3258	155	600	13	D	L2C5-50701205E1300
	5700K	70	2856	3173	151	600	13	D	L2C5-57701205E1300
	6500K	70	2782	3091	147	600	13	D	L2C5-65701205E1300
	2200K	80	2131	2368	113	600	13	F	L2C5-22801205E1300
	2700K	80	2717	3019	145	600	13	E	L2C5-27801205F1300
		80	2516	2795	133	600	13	E	L2C5-27801205E1300
	3000K	80	2823	3137	151	600	13	D	L2C5-30801205F1300
		80	2615	2905	138	600	13	E	L2C5-30801205E1300
	3500K	80	2880	3200	154	600	13	D	L2C5-35801205F1300
		80	2667	2963	141	600	13	E	L2C5-35801205E1300
	4000K	80	2943	3270	157	600	13	D	L2C5-40801205F1300
		80	2725	3028	144	600	13	E	L2C5-40801205E1300
	5000K	80	2943	3270	157	600	13	D	L2C5-50801205F1300
		80	2725	3028	144	600	13	E	L2C5-50801205E1300
	5700K	80	2935	3261	157	600	13	D	L2C5-57801205F1300
		80	2717	3019	144	600	13	E	L2C5-57801205E1300
	6500K	80	2861	3179	153	600	13	D	L2C5-65801205F1300
	2200K	90	1857	2063	98	600	13	Note 6	L2C5-22901205E1300
	2700K	90	2340	2600	125	600	13	E	L2C5-27901205F1300
		90	2090	2322	111	600	13	F	L2C5-27901205E1300
	3000K	90	2437	2708	130	600	13	E	L2C5-30901205F1300
		90	2176	2418	115	600	13	F	L2C5-30901205E1300
	3500K	90	2534	2816	135	600	13	E	L2C5-35901205F1300
		90	2280	2533	121	600	13	E	L2C5-35901205E1300
	4000K	90	2622	2913	140	600	13	E	L2C5-40901205F1300
90		2341	2601	124	600	13	E	L2C5-40901205E1300	
5000K	90	2623	2914	140	600	13	E	L2C5-50901205F1300	
2700K	95	2007	2230	107	600	13	F	L2C5-27951205F1300	
3000K	95	2160	2400	115	600	13	F	L2C5-30951205F1300	
4000K	95	2434	2704	130	600	13	E	L2C5-40951205F1300	

Notes:

1. Lumileds maintains a tolerance of ±2 on CRI and ±6.5% on luminous flux measurements.
2. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.
3. R9 value of 90CRI products is >50.
4. Light Emitting Surface (LES) is the inner diameter (phosphor area) inside the dam.
5. Energy efficiency class as specified in Commission Delegated Regulation (EU) 2019/2015. The available range of energy efficiency classes is A-G.
6. Exception: Not available in EU or UK.

LUXEON CoB Core Range product performance at specified test current, T<sub>j</sub>=85°C (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI <sup>[1, 2, 3]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES <sup>[4]</sup> (mm)	ENERGY EFFICIENCY CLASS <sup>[5]</sup>	PART NUMBER
			MINIMUM	TYPICAL					
LUXEON CoB 1208	3000K	70	4440	4933	158	900	15	D	L2C5-30701208F1500
		70	4149	4610	147	900	15	D	L2C5-30701208E1500
	3500K	70	4149	4610	147	900	15	D	L2C5-35701208E1500
	4000K	70	4719	5243	168	900	15	D	L2C5-40701208F1500
		70	4410	4900	156	900	15	D	L2C5-40701208E1500
	5000K	70	4719	5243	168	900	15	D	L2C5-50701208F1500
		70	4410	4900	156	900	15	D	L2C5-50701208E1500
	5700K	70	4584	5093	163	900	15	D	L2C5-57701208F1500
		70	4284	4760	152	900	15	D	L2C5-57701208E1500
	6500K	70	4466	4962	159	900	15	D	L2C5-65701208F1500
		70	4173	4637	148	900	15	D	L2C5-65701208E1500
	2200K	80	3197	3552	113	900	15	Note 6	L2C5-22801208E1500
	2700K	80	4075	4528	145	900	15	E	L2C5-27801208F1500
		80	3774	4193	134	900	15	E	L2C5-27801208E1500
	3000K	80	4245	4717	151	900	15	D	L2C5-30801208F1500
		80	3931	4368	139	900	15	E	L2C5-30801208E1500
	3500K	80	4330	4811	154	900	15	D	L2C5-35801208F1500
		80	4010	4455	142	900	15	E	L2C5-35801208E1500
	4000K	80	4415	4905	157	900	15	D	L2C5-40801208F1500
		80	4088	4542	145	900	15	E	L2C5-40801208E1500
	5000K	80	4415	4905	157	900	15	D	L2C5-50801208F1500
		80	4088	4542	145	900	15	E	L2C5-50801208E1500
	5700K	80	4402	4891	157	900	15	D	L2C5-57801208F1500
		80	4076	4529	145	900	15	E	L2C5-57801208E1500
	6500K	80	4292	4769	153	900	15	D	L2C5-65801208F1500
	2200K	90	2786	3095	99	900	15	Note 6	L2C5-22901208E1500
	2700K	90	3514	3904	125	900	15	E	L2C5-27901208F1500
		90	3137	3486	111	900	15	F	L2C5-27901208E1500
	3000K	90	3639	4043	129	900	15	E	L2C5-30901208F1500
		90	3249	3610	115	900	15	F	L2C5-30901208E1500
	3500K	90	3785	4205	135	900	15	E	L2C5-35901208F1500
		90	3420	3800	121	900	15	E	L2C5-35901208E1500
4000K	90	3933	4370	140	900	15	E	L2C5-40901208F1500	
	90	3512	3902	125	900	15	E	L2C5-40901208E1500	
2700K	95	3015	3350	107	900	15	F	L2C5-27951208F1500	
3000K	95	3240	3600	115	900	15	F	L2C5-30951208F1500	
4000K	95	3572	3969	127	900	15	E	L2C5-40951208F1500	
LUXEON CoB 1210	2700K	80	4116	4573	149	900	15	D	L2C5-27801210F1500
	3000K	80	4288	4764	156	900	15	D	L2C5-30801210F1500
	3500K	80	4373	4859	159	900	15	D	L2C5-35801210F1500
	4000K	80	4533	5037	165	900	15	D	L2C5-40801210F1500
	3000K	90	3721	4134	135	900	15	E	L2C5-30901210F1500
	3500K	90	3822	4247	139	900	15	E	L2C5-35901210F1500
	4000K	90	3972	4414	144	900	15	E	L2C5-40901210F1500
2700K	95	3045	3384	111	900	15	F	L2C5-27951210F1500	

Notes:

1. Lumileds maintains a tolerance of ±2 on CRI and ±6.5% on luminous flux measurements.
2. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.
3. R9 value of 90CRI products is >50.
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5. Energy efficiency class as specified in Commission Delegated Regulation (EU) 2019/2015. The available range of energy efficiency classes is A-G.
6. Exception: Not available in EU or UK.

LUXEON CoB Core Range product performance at specified test current, T<sub>j</sub>=85°C (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI <sup>[1, 2, 3]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES <sup>[4]</sup> (mm)	ENERGY EFFICIENCY CLASS <sup>[5]</sup>	PART NUMBER
			MINIMUM	TYPICAL					
LUXEON CoB 1211	3000K	70	6065	6739	164	1200	19	D	L2C5-30701211F1900
		70	5695	6328	152	1200	19	D	L2C5-30701211E1900
	3500K	70	5695	6328	152	1200	19	D	L2C5-35701211E1900
	4000K	70	6447	7163	174	1200	19	C	L2C5-40701211F1900
		70	6053	6726	161	1200	19	D	L2C5-40701211E1900
	5000K	70	6447	7163	174	1200	19	C	L2C5-50701211F1900
		70	6053	6726	161	1200	19	D	L2C5-50701211E1900
	5700K	70	6265	6961	169	1200	19	D	L2C5-57701211F1900
		70	5882	6536	157	1200	19	D	L2C5-57701211E1900
	6500K	70	6104	6782	165	1200	19	D	L2C5-65701211F1900
		70	5731	6368	152	1200	19	D	L2C5-65701211E1900
	2200K	80	4390	4878	117	1200	19	F	L2C5-22801211E1900
	2700K	80	5519	6132	149	1200	19	D	L2C5-27801211F1900
		80	5182	5758	138	1200	19	E	L2C5-27801211E1900
	3000K	80	5675	6305	153	1200	19	D	L2C5-30801211F1900
		80	5328	5920	142	1200	19	E	L2C5-30801211E1900
	3500K	80	5787	6430	156	1200	19	D	L2C5-35801211F1900
		80	5434	6038	145	1200	19	E	L2C5-35801211E1900
	4000K	80	5979	6643	161	1200	19	D	L2C5-40801211F1900
		80	5614	6238	149	1200	19	D	L2C5-40801211E1900
	5000K	80	5979	6643	161	1200	19	D	L2C5-50801211F1900
		80	5614	6238	149	1200	19	D	L2C5-50801211E1900
	5700K	80	5962	6624	161	1200	19	D	L2C5-57801211F1900
		80	5598	6220	149	1200	19	D	L2C5-57801211E1900
	6500K	80	5661	6290	153	1200	19	D	L2C5-65801211F1900
	2200K	90	3749	4165	100	1200	19	Note 6	L2C5-22901211E1900
	2700K	90	4692	5213	127	1200	19	E	L2C5-27901211F1900
		90	4305	4783	115	1200	19	F	L2C5-27901211E1900
	3000K	90	4910	5455	133	1200	19	E	L2C5-30901211F1900
		90	4505	5005	120	1200	19	E	L2C5-30901211E1900
3500K	90	5119	5688	138	1200	19	E	L2C5-35901211F1900	
	90	4696	5218	125	1200	19	E	L2C5-35901211E1900	
4000K	90	5256	5840	142	1200	19	E	L2C5-40901211F1900	
	90	4822	5358	128	1200	19	E	L2C5-40901211E1900	
5000K	90	5256	5840	142	1200	19	E	L2C5-50901211F1900	
2700K	95	4032	4480	109	1200	19	F	L2C5-27951211F1910	
3000K	95	4221	4690	114	1200	19	F	L2C5-30951211F1910	
LUXEON CoB 1213	5000K	70	7072	7858	177	1300	23	C	L2C5-50701213F2300
	3000K	80	6188	6875	155	1300	23	D	L2C5-30801213F2300
	4000K	80	6623	7359	166	1300	23	D	L2C5-40801213F2300

Notes:

1. Lumileds maintains a tolerance of ±2 on CRI and ±6.5% on luminous flux measurements.
2. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.
3. R9 value of 90CRI products is >50.
4. Light Emitting Surface (LES) is the inner diameter (phosphor area) inside the dam.
5. Energy efficiency class as specified in Commission Delegated Regulation (EU) 2019/2015. The available range of energy efficiency classes is A-G.
6. Exception: Not available in EU or UK.

LUXEON CoB Core Range product performance at specified test current, T<sub>j</sub>=85°C (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI <sup>[1, 2, 3]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES <sup>[4]</sup> (mm)	ENERGY EFFICIENCY CLASS <sup>[5]</sup>	PART NUMBER
			MINIMUM	TYPICAL					
LUXEON CoB 1216	3000K	70	7988	8875	163	1600	23	D	L2C5-30701216F2300
		70	7465	8294	150	1600	23	D	L2C5-30701216E2300
	3500K	70	7465	8294	150	1600	23	D	L2C5-35701216E2300
	4000K	70	8428	9364	172	1600	23	D	L2C5-40701216F2300
		70	7876	8751	159	1600	23	D	L2C5-40701216E2300
	5000K	70	8428	9364	172	1600	23	D	L2C5-50701216F2300
		70	7876	8751	159	1600	23	D	L2C5-50701216E2300
	5700K	70	8250	9167	169	1600	23	D	L2C5-57701216F2300
		70	7710	8567	155	1600	23	D	L2C5-57701216E2300
	6500K	70	8038	8931	164	1600	23	D	L2C5-65701216F2300
		70	7512	8347	151	1600	23	D	L2C5-65701216E2300
	2200K	80	5755	6394	116	1600	23	Note 6	L2C5-22801216E2300
	2700K	80	7335	8150	150	1600	23	D	L2C5-27801216F2300
		80	6791	7546	137	1600	23	E	L2C5-27801216E2300
	3000K	80	7508	8342	153	1600	23	D	L2C5-30801216F2300
		80	6952	7724	140	1600	23	E	L2C5-30801216E2300
	3500K	80	7657	8508	156	1600	23	D	L2C5-35801216F2300
		80	7090	7878	143	1600	23	E	L2C5-35801216E2300
	4000K	80	7947	8830	162	1600	23	D	L2C5-40801216F2300
		80	7358	8176	148	1600	23	D	L2C5-40801216E2300
	5000K	80	7947	8830	162	1600	23	D	L2C5-50801216F2300
		80	7358	8176	148	1600	23	D	L2C5-50801216E2300
	5700K	80	7923	8803	162	1600	23	D	L2C5-57801216F2300
		80	7336	8151	148	1600	23	D	L2C5-57801216E2300
	2200K	90	5013	5570	101	1600	23	Note 6	L2C5-22901216E2300
	2700K	90	6319	7021	129	1600	23	E	L2C5-27901216F2300
		90	5642	6269	114	1600	23	F	L2C5-27901216E2300
	3000K	90	6570	7300	134	1600	23	E	L2C5-30901216F2300
		90	5866	6518	118	1600	23	F	L2C5-30901216E2300
	3500K	90	6893	7659	141	1600	23	E	L2C5-35901216F2300
90		6155	6839	124	1600	23	E	L2C5-35901216E2300	
4000K	90	6893	7659	141	1600	23	E	L2C5-40901216F2300	
	90	6321	7023	127	1600	23	E	L2C5-40901216E2300	
5000K	90	6954	7727	142	1600	23	E	L2C5-50901216F2300	

Notes:

1. Lumileds maintains a tolerance of ±2 on CRI and ±6.5% on luminous flux measurements.
2. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.
3. R9 value of 90CRI products is >50.
4. Light Emitting Surface (LES) is the inner diameter (phosphor area) inside the dam.
5. Energy efficiency class as specified in Commission Delegated Regulation (EU) 2019/2015. The available range of energy efficiency classes is A-G.
6. Exception: Not available in EU or UK.



LUXEON CoB Core Range product performance at specified test current, T<sub>j</sub>=85°C (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI <sup>[1, 2, 3]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES <sup>[4]</sup> (mm)	ENERGY EFFICIENCY CLASS <sup>[5]</sup>	PART NUMBER
			MINIMUM	TYPICAL					
LUXEON CoB 1812	4000K	70	9356	10395	170	1200	23	D	L2C5-40701812F2300
		70	9000	10000	161	1200	23	D	L2C5-40701812G2300
	5000K	70	9450	10500	171	1200	23	D	L2C5-50701812F2300
		70	9000	10000	161	1200	23	D	L2C5-50701812G2300
	3000K	80	8221	9134	149	1200	23	D	L2C5-30801812F2300
		80	7682	8536	138	1200	23	E	L2C5-30801812G2300
	4000K	80	8691	9657	157	1200	23	D	L2C5-40801812F2300
		80	8123	9025	145	1200	23	E	L2C5-40801812G2300
	5000K	80	8814	9793	160	1200	23	D	L2C5-50801812F2300
		80	8123	9025	145	1200	23	E	L2C5-50801812G2300
LUXEON CoB 1321	2200K	60	10961	12179	155	2100	29	D	L2C5-22601321F2900
	3000K	70	10736	11929	151	2100	29	D	L2C5-30701321E2900
	4000K	70	11867	13185	167	2100	29	D	L2C5-40701321F2900
		70	11416	12684	161	2100	29	D	L2C5-40701321E2900
	5000K	70	11986	13318	169	2100	29	D	L2C5-50701321F2900
		70	11416	12684	161	2100	29	D	L2C5-50701321E2900
	5700K	70	11121	12357	157	2100	29	D	L2C5-57701321E2900
	6500K	70	10834	12038	153	2100	29	D	L2C5-65701321E2900
	2700K	80	10286	11429	145	2100	29	E	L2C5-27801321F2900
		80	9797	10885	138	2100	29	E	L2C5-27801321E2900
	3000K	80	10737	11930	151	2100	29	D	L2C5-30801321F2900
		80	10035	11150	142	2100	29	E	L2C5-30801321E2900
	3500K	80	10238	11376	144	2100	29	E	L2C5-35801321E2900
	4000K	80	11352	12613	160	2100	29	D	L2C5-40801321F2900
		80	10609	11788	150	2100	29	D	L2C5-40801321E2900
	5000K	80	10609	11788	150	2100	29	D	L2C5-50801321E2900
	2700K	90	8136	9040	115	2100	29	F	L2C5-27901321E2900
	3000K	90	8410	9344	119	2100	29	F	L2C5-30901321E2900
5600K	90	9117	10130	129	2100	29	E	L2C5-56901321E2900	

Notes:

1. Lumileds maintains a tolerance of ±2 on CRI and ±6.5% on luminous flux measurements.
2. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.
3. R9 value of 90CRI products is >50.
4. Light Emitting Surface (LES) is the inner diameter (phosphor area) inside the dam.
5. Energy efficiency class as specified in Commission Delegated Regulation (EU) 2019/2015. The available range of energy efficiency classes is A-G.
6. Exception: Not available in EU or UK.

LUXEON CoB Core Range product performance at specified test current, T<sub>j</sub>=85°C (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI <sup>[1, 2, 3]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES <sup>[4]</sup> (mm)	ENERGY EFFICIENCY CLASS <sup>[5]</sup>	PART NUMBER
			MINIMUM	TYPICAL					
LUXEON CoB 1825	2200K	60	15876	17640	156	2250	32	D	L2C5-22601825F3200
		60	15120	16800	144	2250	32	E	L2C5-22601825G3200
	3000K	70	15550	17278	149	2250	32	D	L2C5-30701825G3200
	4000K	70	17362	19291	170	2250	32	D	L2C5-40701825F3200
		70	16535	18372	158	2250	32	D	L2C5-40701825G3200
	5000K	70	18315	20350	179	2250	32	C	L2C5-50701825F3200
		70	16535	18372	158	2250	32	D	L2C5-50701825G3200
	5700K	70	16108	17898	154	2250	32	D	L2C5-57701825G3200
	6500K	70	15692	17436	150	2250	32	D	L2C5-65701825G3200
	2700K	80	14190	15767	136	2250	32	E	L2C5-27801825G3200
	3000K	80	15553	17281	152	2250	32	D	L2C5-30801825F3200
		80	14535	16150	139	2250	32	E	L2C5-30801825G3200
	3500K	80	15930	17700	156	2250	32	D	L2C5-35801825F3200
		80	14829	16477	142	2250	32	E	L2C5-35801825G3200
	4000K	80	16443	18270	161	2250	32	D	L2C5-40801825F3200
		80	15368	17075	147	2250	32	D	L2C5-40801825G3200
	5000K	80	16799	18666	165	2250	32	D	L2C5-50801825F3200
		80	15368	17075	147	2250	32	D	L2C5-50801825G3200
	5600K	80	16556	18395	162	2250	32	D	L2C5-56801825F3200
	2700K	90	11785	13094	113	2250	32	F	L2C5-27901825G3200
	3000K	90	13725	15250	134	2250	32	E	L2C5-30901825F3200
		90	12181	13534	116	2250	32	F	L2C5-30901825G3200
	3500K	90	14598	16220	143	2250	32	E	L2C5-35901825F3200
	4000K	90	14841	16490	145	2250	32	E	L2C5-40901825F3200
	5600K	90	13770	15300	135	2250	32	E	L2C5-56901825F3200
		90	13206	14673	126	2250	32	E	L2C5-56901825G3200

Notes:

1. Lumileds maintains a tolerance of ±2 on CRI and ±6.5% on luminous flux measurements.
2. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.
3. R9 value of 90CRI products is >50.
4. Light Emitting Surface (LES) is the inner diameter (phosphor area) inside the dam.
5. Energy efficiency class as specified in Commission Delegated Regulation (EU) 2019/2015. The available range of energy efficiency classes is A-G.
6. Exception: Not available in EU or UK.