



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

Architectural

Downlights

High Bay & Low Bay

Lamps

Outdoor

Specialty Lighting

Spotlights

LUXEON CoB Core Range product performance at specified test current, T_j=85°C.

PRODUCT	NOMINAL CCT	MINIMUM CRI ^[1, 2, 3]	LUMINOUS FLUX ^[1] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES ^[4] (mm)	PART NUMBER
			MINIMUM	TYPICAL				
LUXEON CoB 1202s	2200K	80	675	750	109	200	6	L2C5-22801202E0600
	2700K	80	797	886	128	200	6	L2C5-27801202E0600
	3000K	80	837	930	135	200	6	L2C5-30801202E0600
	3500K	80	854	949	138	200	6	L2C5-35801202E0600
	4000K	80	863	959	139	200	6	L2C5-40801202E0600
	5000K	80	863	959	139	200	6	L2C5-50801202E0600
	2200K ^[5]	90	589	654	95	200	6	L2C5-22901202E0600
	2700K	90	662	736	107	200	6	L2C5-27901202E0600
	3000K	90	689	766	111	200	6	L2C5-30901202E0600
	3500K	90	725	805	117	200	6	L2C5-35901202E0600
4000K	90	742	824	119	200	6	L2C5-40901202E0600	
LUXEON CoB 1202	3000K	70	923	1026	149	200	9	L2C5-30701202E0900
	3500K	70	923	1026	149	200	9	L2C5-35701202E0900
	4000K	70	968	1075	156	200	9	L2C5-40701202E0900
	5000K	70	968	1075	156	200	9	L2C5-50701202E0900
	5700K	70	942	1047	152	200	9	L2C5-57701202E0900
	2200K	80	703	781	113	200	9	L2C5-22801202E0900
	2700K	80	830	922	134	200	9	L2C5-27801202E0900
	3000K	80	876	973	141	200	9	L2C5-30801202E0900
	3500K	80	893	992	144	200	9	L2C5-35801202E0900
	4000K	80	899	999	145	200	9	L2C5-40801202E0900
	5000K	80	899	999	145	200	9	L2C5-50801202E0900
	2200K ^[5]	90	625	694	101	200	9	L2C5-22901202E0900
	2700K	90	690	766	111	200	9	L2C5-27901202E0900
	3000K	90	729	810	117	200	9	L2C5-30901202E0900
	3500K	90	752	836	121	200	9	L2C5-35901202E0900
4000K	90	772	858	124	200	9	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. AtmoSphere Technology creates the ideal ambiance for restaurants and other hospitality venues.

LUXEON CoB Core Range product performance at specified test current, T_j=85°C (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI ^[1, 2, 3]	LUMINOUS FLUX ^[1] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES ^[4] (mm)	PART NUMBER
			MINIMUM	TYPICAL				
LUXEON CoB 1203	3000K	70	1475	1639	158	300	9	L2C5-30701203F0900
		70	1379	1532	148	300	9	L2C5-30701203E0900
	3500K	70	1379	1532	148	300	9	L2C5-35701203E0900
	4000K	70	1569	1743	168	300	9	L2C5-40701203F0900
		70	1466	1629	157	300	9	L2C5-40701203E0900
	5000K	70	1466	1629	157	300	9	L2C5-50701203E0900
	5700K	70	1428	1587	153	300	9	L2C5-57701203E0900
	6500K	70	1391	1546	149	300	9	L2C5-65701203E0900
	2200K	80	1066	1184	114	300	9	L2C5-22801203E0900
	2700K	80	1359	1510	146	300	9	L2C5-27801203F0900
		80	1258	1398	135	300	9	L2C5-27801203E0900
	3000K	80	1392	1547	149	300	9	L2C5-30801203F0900
		80	1289	1432	138	300	9	L2C5-30801203E0900
	3500K	80	1420	1578	152	300	9	L2C5-35801203F0900
		80	1315	1461	141	300	9	L2C5-35801203E0900
	4000K	80	1472	1635	158	300	9	L2C5-40801203F0900
		80	1363	1514	146	300	9	L2C5-40801203E0900
	5000K	80	1472	1635	158	300	9	L2C5-50801203F0900
		80	1363	1514	146	300	9	L2C5-50801203E0900
	5700K	80	1359	1510	146	300	9	L2C5-57801203E0900
	2200K ^[5]	90	929	1032	100	300	9	L2C5-22901203E0900
	2700K	90	1170	1300	125	300	9	L2C5-27901203F0900
		90	1045	1161	112	300	9	L2C5-27901203E0900
	3000K	90	1210	1344	130	300	9	L2C5-30901203F0900
		90	1080	1200	116	300	9	L2C5-30901203E0900
	3500K	90	1140	1267	122	300	9	L2C5-35901203E0900
	4000K	90	1170	1301	126	300	9	L2C5-40901203E0900

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LUXEON CoB Core Range product performance at specified test current, T_j=85°C (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI ^[1, 2, 3]	LUMINOUS FLUX ^[1] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES ^[4] (mm)	PART NUMBER
			MINIMUM	TYPICAL				
LUXEON CoB 1204	3000K	70	2124	2360	151	450	13	L2C5-30701204E1300
	3500K	70	2124	2360	151	450	13	L2C5-35701204E1300
	4000K	70	2258	2509	160	450	13	L2C5-40701204E1300
	5000K	70	2258	2509	160	450	13	L2C5-50701204E1300
	5700K	70	2199	2443	156	450	13	L2C5-57701204E1300
	6500K	70	2142	2380	152	450	13	L2C5-65701204E1300
	2200K	80	1641	1823	117	450	13	L2C5-22801204E1300
	2700K	80	2092	2324	149	450	13	L2C5-27801204F1300
		80	1937	2152	138	450	13	L2C5-27801204E1300
	3000K	80	2138	2376	152	450	13	L2C5-30801204F1300
		80	1980	2200	141	450	13	L2C5-30801204E1300
	3500K	80	2020	2244	144	450	13	L2C5-35801204E1300
	4000K	80	2098	2332	149	450	13	L2C5-40801204E1300
	5000K	80	2098	2332	149	450	13	L2C5-50801204E1300
	5700K	80	2093	2325	148	450	13	L2C5-57801204E1300
	2200K ^[5]	90	1430	1589	102	450	13	L2C5-22901204E1300
	2700K	90	1802	2003	129	450	13	L2C5-27901204F1300
		90	1609	1788	115	450	13	L2C5-27901204E1300
	3000K	90	1855	2061	132	450	13	L2C5-30901204F1300
		90	1656	1840	118	450	13	L2C5-30901204E1300
3500K	90	1755	1950	125	450	13	L2C5-35901204E1300	
4000K	90	1802	2003	128	450	13	L2C5-40901204E1300	

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LUXEON CoB Core Range product performance at specified test current, T_j=85°C (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI ^[1, 2, 3]	LUMINOUS FLUX ^[1] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES ^[4] (mm)	PART NUMBER
			MINIMUM	TYPICAL				
LUXEON CoB 1205	3000K	70	2958	3287	157	600	13	L2C5-30701205F1300
		70	2765	3072	146	600	13	L2C5-30701205E1300
	3500K	70	2765	3072	146	600	13	L2C5-35701205E1300
	4000K	70	3137	3486	166	600	13	L2C5-40701205F1300
		70	2932	3258	155	600	13	L2C5-40701205E1300
	5000K	70	2932	3258	155	600	13	L2C5-50701205E1300
	5700K	70	2856	3173	151	600	13	L2C5-57701205E1300
	6500K	70	2782	3091	147	600	13	L2C5-65701205E1300
	2200K	80	2131	2368	113	600	13	L2C5-22801205E1300
	2700K	80	2717	3019	144	600	13	L2C5-27801205F1300
		80	2516	2795	133	600	13	L2C5-27801205E1300
	3000K	80	2824	3137	149	600	13	L2C5-30801205F1300
		80	2615	2905	138	600	13	L2C5-30801205E1300
	3500K	80	2880	3200	152	600	13	L2C5-35801205F1300
		80	2667	2963	141	600	13	L2C5-35801205E1300
	4000K	80	2943	3270	156	600	13	L2C5-40801205F1300
		80	2725	3028	144	600	13	L2C5-40801205E1300
	5000K	80	2943	3270	156	600	13	L2C5-50801205F1300
		80	2725	3028	144	600	13	L2C5-50801205E1300
	5700K	80	2934	3261	156	600	13	L2C5-57801205F1300
		80	2717	3019	144	600	13	L2C5-57801205E1300
	2200K ^[5]	90	1857	2063	98	600	13	L2C5-22901205E1300
	2700K	90	2341	2601	124	600	13	L2C5-27901205F1300
		90	2090	2322	111	600	13	L2C5-27901205E1300
	3000K	90	2437	2708	129	600	13	L2C5-30901205F1300
		90	2176	2418	115	600	13	L2C5-30901205E1300
	3500K	90	2280	2533	121	600	13	L2C5-35901205E1300
	4000K	90	2622	2913	139	600	13	L2C5-40901205F1300
		90	2341	2601	124	600	13	L2C5-40901205E1300

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			MINIMUM	TYPICAL				
LUXEON CoB 1208	3000K	70	4439	4933	157	900	15	L2C5-30701208F1500
		70	4149	4610	147	900	15	L2C5-30701208E1500
	3500K	70	4149	4610	147	900	15	L2C5-35701208E1500
	4000K	70	4651	5243	167	900	15	L2C5-40701208F1500
		70	4347	4900	156	900	15	L2C5-40701208E1500
	5000K	70	4651	5243	167	900	15	L2C5-50701208F1500
		70	4347	4900	156	900	15	L2C5-50701208E1500
	5700K	70	4584	5093	163	900	15	L2C5-57701208F1500
		70	4284	4760	152	900	15	L2C5-57701208E1500
	6500K	70	4465	4962	158	900	15	L2C5-65701208F1500
		70	4173	4637	148	900	15	L2C5-65701208E1500
	2200K	80	3197	3552	114	900	15	L2C5-22801208E1500
	2700K	80	4076	4528	145	900	15	L2C5-27801208F1500
		80	3774	4193	134	900	15	L2C5-27801208E1500
	3000K	80	4245	4717	151	900	15	L2C5-30801208F1500
		80	3931	4368	140	900	15	L2C5-30801208E1500
	3500K	80	4331	4811	154	900	15	L2C5-35801208F1500
		80	4010	4455	143	900	15	L2C5-35801208E1500
	4000K	80	4415	4905	157	900	15	L2C5-40801208F1500
		80	4088	4542	145	900	15	L2C5-40801208E1500
	5000K	80	4415	4905	157	900	15	L2C5-50801208F1500
		80	4088	4542	145	900	15	L2C5-50801208E1500
	5700K	80	4402	4891	157	900	15	L2C5-57801208F1500
		80	4076	4529	145	900	15	L2C5-57801208E1500
	2200K ^[5]	90	2785	3095	99	900	15	L2C5-22901208E1500
	2700K	90	3511	3901	125	900	15	L2C5-27901208F1500
		90	3135	3483	112	900	15	L2C5-27901208E1500
	3000K	90	3639	4043	130	900	15	L2C5-30901208F1500
		90	3249	3610	116	900	15	L2C5-30901208E1500
	3500K	90	3420	3800	122	900	15	L2C5-35901208E1500
4000K	90	3932	4370	140	900	15	L2C5-40901208F1500	
	90	3511	3902	125	900	15	L2C5-40901208E1500	

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LUXEON CoB Core Range product performance at specified test current, T_j=85°C (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI ^[1, 2, 3]	LUMINOUS FLUX ^[1] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES ^[4] (mm)	PART NUMBER
			MINIMUM	TYPICAL				
LUXEON CoB 1211	3000K	70	6133	6739	161	1200	19	L2C5-30701211F1900
		70	5695	6328	152	1200	19	L2C5-30701211E1900
	3500K	70	5695	6328	152	1200	19	L2C5-35701211E1900
	4000K	70	6519	7163	172	1200	19	L2C5-40701211F1900
		70	6053	6726	162	1200	19	L2C5-40701211E1900
	5000K	70	6519	7163	172	1200	19	L2C5-50701211F1900
		70	6053	6726	162	1200	19	L2C5-50701211E1900
	5700K	70	6334	6961	167	1200	19	L2C5-57701211F1900
		70	5882	6536	157	1200	19	L2C5-57701211E1900
	6500K	70	6172	6782	162	1200	19	L2C5-65701211F1900
		70	5731	6368	152	1200	19	L2C5-65701211E1900
	2200K	80	4390	4878	117	1200	19	L2C5-22801211E1900
	2700K	80	5580	6132	147	1200	19	L2C5-27801211F1900
		80	5183	5758	138	1200	19	L2C5-27801211E1900
	3000K	80	5737	6305	151	1200	19	L2C5-30801211F1900
		80	5328	5920	142	1200	19	L2C5-30801211E1900
	3500K	80	5852	6430	154	1200	19	L2C5-35801211F1900
		80	5435	6038	145	1200	19	L2C5-35801211E1900
	4000K	80	6046	6643	159	1200	19	L2C5-40801211F1900
		80	5614	6238	150	1200	19	L2C5-40801211E1900
	5000K	80	6046	6643	159	1200	19	L2C5-50801211F1900
		80	5614	6238	150	1200	19	L2C5-50801211E1900
	5700K	80	6028	6624	159	1200	19	L2C5-57801211F1900
		80	5598	6220	149	1200	19	L2C5-57801211E1900
	2200K ^[5]	90	3749	4165	100	1200	19	L2C5-22901211E1900
	2700K	90	4744	5213	125	1200	19	L2C5-27901211F1900
		90	4305	4783	115	1200	19	L2C5-27901211E1900
	3000K	90	4964	5455	131	1200	19	L2C5-30901211F1900
		90	4505	5005	120	1200	19	L2C5-30901211E1900
	3500K	90	5176	5688	136	1200	19	L2C5-35901211F1900
90		4696	5218	125	1200	19	L2C5-35901211E1900	
4000K	90	5315	5840	141	1200	19	L2C5-40901211F1900	
	90	4822	5358	129	1200	19	L2C5-40901211E1900	

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PRODUCT	NOMINAL CCT	MINIMUM CRI ^[1, 2, 3]	LUMINOUS FLUX ^[1] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES ^[4] (mm)	PART NUMBER
			MINIMUM	TYPICAL				
LUXEON CoB 1216	3000K	70	7987	8875	161	1600	23	L2C5-30701216F2300
		70	7465	8294	150	1600	23	L2C5-30701216E2300
	3500K	70	7465	8294	150	1600	23	L2C5-35701216E2300
	4000K	70	8427	9364	170	1600	23	L2C5-40701216F2300
		70	7876	8751	159	1600	23	L2C5-40701216E2300
	5000K	70	8427	9364	170	1600	23	L2C5-50701216F2300
		70	7876	8751	159	1600	23	L2C5-50701216E2300
	5700K	70	8250	9167	166	1600	23	L2C5-57701216F2300
		70	7710	8567	155	1600	23	L2C5-57701216E2300
	6500K	70	8038	8931	162	1600	23	L2C5-65701216F2300
		70	7512	8347	151	1600	23	L2C5-65701216E2300
	2200K	80	5755	6394	116	1600	23	L2C5-22801216E2300
	2700K	80	7334	8150	148	1600	23	L2C5-27801216F2300
		80	6791	7546	137	1600	23	L2C5-27801216E2300
	3000K	80	7508	8342	151	1600	23	L2C5-30801216F2300
		80	6952	7724	140	1600	23	L2C5-30801216E2300
	3500K	80	7657	8508	154	1600	23	L2C5-35801216F2300
		80	7090	7878	143	1600	23	L2C5-35801216E2300
	4000K	80	7947	8830	160	1600	23	L2C5-40801216F2300
		80	7358	8176	148	1600	23	L2C5-40801216E2300
	5000K	80	7947	8830	160	1600	23	L2C5-50801216F2300
		80	7358	8176	148	1600	23	L2C5-50801216E2300
	5700K	80	7923	8803	160	1600	23	L2C5-57801216F2300
		80	7336	8151	148	1600	23	L2C5-57801216E2300
	2200K ^[5]	90	5013	5570	101	1600	23	L2C5-22901216E2300
	2700K	90	6319	7021	127	1600	23	L2C5-27901216F2300
		90	5642	6269	114	1600	23	L2C5-27901216E2300
	3000K	90	6570	7300	132	1600	23	L2C5-30901216F2300
		90	5866	6518	118	1600	23	L2C5-30901216E2300
	3500K	90	6155	6839	124	1600	23	L2C5-35901216E2300
4000K	90	6321	7023	127	1600	23	L2C5-40901216E2300	

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5. AtmoSphere Technology creates the ideal ambiance for restaurants and other hospitality venues.

LUXEON CoB Core Range product performance at specified test current, T_j=85°C (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI ^[1, 2, 3]	LUMINOUS FLUX ^[1] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES ^[4] (mm)	PART NUMBER
			MINIMUM	TYPICAL				
LUXEON CoB 1812	4000K	70	9000	10000	161	1200	23	L2C5-40701812G2300
	5000K	70	9000	10000	161	1200	23	L2C5-50701812G2300
	3000K	80	7682	8536	138	1200	23	L2C5-30801812G2300
	4000K	80	8122	9025	145	1200	23	L2C5-40801812G2300
	5000K	80	8122	9025	145	1200	23	L2C5-50801812G2300
LUXEON CoB 1321	3000K	70	10736	11929	151	2100	29	L2C5-30701321E2900
	4000K	70	11416	12684	161	2100	29	L2C5-40701321E2900
	5000K	70	11416	12684	161	2100	29	L2C5-50701321E2900
	5700K	70	11121	12357	157	2100	29	L2C5-57701321E2900
	6500K	70	10834	12038	153	2100	29	L2C5-65701321E2900
	2700K	80	9797	10885	138	2100	29	L2C5-27801321E2900
	3000K	80	10035	11150	142	2100	29	L2C5-30801321E2900
	3500K	80	10238	11376	144	2100	29	L2C5-35801321E2900
	4000K	80	10610	11788	150	2100	29	L2C5-40801321E2900
	5000K	80	10610	11788	150	2100	29	L2C5-50801321E2900
	2700K	90	8136	9040	115	2100	29	L2C5-27901321E2900
	3000K	90	8409	9344	119	2100	29	L2C5-30901321E2900
	5600K	90	9117	10130	129	2100	29	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. AtmoSphere Technology creates the ideal ambiance for restaurants and other hospitality venues.

LUXEON CoB Core Range product performance at specified test current, $T_j=85^\circ\text{C}$ (continued).

PRODUCT	NOMINAL CCT	MINIMUM CRI ^[1, 2, 3]	LUMINOUS FLUX ^[1] (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	LES ^[4] (mm)	PART NUMBER
			MINIMUM	TYPICAL				
LUXEON CoB 1825	2200K	60	15120	16800	144	2250	32	L2C5-22601825G3200
	3000K	70	15550	17278	151	2250	32	L2C5-30701825G3200
	4000K	70	16535	18372	161	2250	32	L2C5-40701825G3200
	5000K	70	16535	18372	161	2250	32	L2C5-50701825G3200
	5700K	70	16108	17898	157	2250	32	L2C5-57701825G3200
	6500K	70	15692	17436	153	2250	32	L2C5-65701825G3200
	2700K	80	14190	15767	138	2250	32	L2C5-27801825G3200
	3000K	80	14535	16150	138	2250	32	L2C5-30801825G3200
	3500K	80	14829	16477	144	2250	32	L2C5-35801825G3200
	4000K	80	15367	17075	150	2250	32	L2C5-40801825G3200
	5000K	80	15367	17075	150	2250	32	L2C5-50801825G3200
	2700K	90	11784	13094	115	2250	32	L2C5-27901825G3200
	3000K	90	12180	13534	119	2250	32	L2C5-30901825G3200
	5600K	90	13205	14673	129	2250	32	L2C5-56901825G3200

Notes:

1. Lumileds maintains a tolerance of ± 2 on CRI and $\pm 6.5\%$ 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. AtmoSphere Technology creates the ideal ambiance for restaurants and other hospitality venues.

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