



# LUXEON CS CoB

High efficacy, superior quality of light and ease for design footprints



LUXEON CS extends Lumileds CoB leadership for performance and reliability to an entirely new board footprint that enables easy design-in for new luminaire programs and as a cost-effective replacement for existing solutions where an upgrade is desired. State-of-the-art LUXEON CoB technology delivers unmatched performance, quality of light, and uncompromising product quality.

## FEATURES AND BENEFITS

- Widely used square footprints for easy design-in
- High performance with superior color stability
- Low thermal resistance enables smaller heatsinks and extends the operating life span
- Supported by a comprehensive optical, mechanical, and electrical ecosystem

## PRIMARY APPLICATIONS

- Track Lights
- Downlights
- Spotlights
- High Bay
- Low Bay
- More...

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

LES <sup>[4]</sup> (mm)	NOMINAL CCT	MINIMUM CRI <sup>[1, 2, 3]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	ENERGY EFFICIENCY CLASS <sup>[5]</sup>	PART NUMBER
			MINIMUM	TYPICAL				
6	2700K	80	801	890	146	180	D	L2C6-2780xL02A0600
6	3000K	80	834	927	152	180	D	L2C6-3080xL02A0600
6	3500K	80	855	950	156	180	D	L2C6-3580xL02A0600
6	4000K	80	876	973	160	180	D	L2C6-4080xL02A0600
6	5000K	80	876	973	160	180	D	L2C6-5080xL02A0600
6	5700K	80	868	964	158	180	D	L2C6-57803L02A0600
6	6500K	80	859	955	156	180	D	L2C6-65803L02A0600
6	2700K	90	759	843	138	180	E	L2C6-27902L02A0600
6	3000K	90	803	892	146	180	D	L2C6-30902L02A0600
6	3500K	90	839	932	153	180	D	L2C6-35902L02A0600
6	4000K	90	864	960	157	180	D	L2C6-40902L02A0600
6	5000K	90	867	963	158	180	D	L2C6-50902L02A0600
9	2700K	80	857	952	156	180	D	L2C6-2780xL02A0900
9	3000K	80	887	986	162	180	D	L2C6-3080xL02A0900
9	3500K	80	905	1006	165	180	D	L2C6-3580xL02A0900
9	4000K	80	950	1055	173	180	C	L2C6-4080xL02A0900
9	5000K	80	950	1055	173	180	C	L2C6-5080xL02A0900
9	5700K	80	930	1033	169	180	D	L2C6-57803L02A0900
9	6500K	80	921	1023	168	180	D	L2C6-65803L02A0900
9	2700K	90	804	893	146	180	D	L2C6-27902L02A0900
9	3000K	90	823	914	150	180	D	L2C6-30902L02A0900
9	3500K	90	856	951	156	180	D	L2C6-35902L02A0900
9	4000K	90	881	979	160	180	D	L2C6-40902L02A0900
9	5000K	90	884	982	161	180	D	L2C6-50902L02A0900
9	2700K	80	1279	1421	155	270	D	L2C6-2780xL03A0900
9	3000K	80	1333	1481	162	270	D	L2C6-3080xL03A0900
9	3500K	80	1366	1518	166	270	D	L2C6-3580xL03A0900
9	4000K	80	1396	1551	169	270	D	L2C6-4080xL03A0900
9	5000K	80	1396	1551	169	270	D	L2C6-5080xL03A0900
9	5700K	80	1390	1544	169	270	D	L2C6-57803L03A0900
9	6500K	80	1380	1533	167	270	D	L2C6-65803L03A0900
9	2700K	90	1222	1358	148	270	D	L2C6-27902L03A0900
9	3000K	90	1262	1402	153	270	D	L2C6-30902L03A0900
9	3500K	90	1320	1467	160	270	D	L2C6-35902L03A0900
9	4000K	90	1353	1503	164	270	D	L2C6-40902L03A0900
9	5000K	90	1357	1508	165	270	D	L2C6-50902L03A0900

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

LES <sup>[4]</sup> (mm)	NOMINAL CCT	MINIMUM CRI <sup>[1, 2, 3]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	ENERGY EFFICIENCY CLASS <sup>[5]</sup>	PART NUMBER
			MINIMUM	TYPICAL				
9	2700K	80	1693	1881	154	360	D	L2C6-2780xL04A0900
9	3000K	80	1767	1963	161	360	D	L2C6-3080xL04A0900
9	3500K	80	1793	1992	163	360	D	L2C6-3580xL04A0900
9	4000K	80	1852	2058	169	360	D	L2C6-4080xL04A0900
9	5000K	80	1852	2058	169	360	D	L2C6-5080xL04A0900
9	5700K	80	1833	2037	167	360	D	L2C6-57803L04A0900
9	6500K	80	1815	2017	165	360	D	L2C6-65803L04A0900
9	2700K	90	1652	1836	150	360	D	L2C6-27902L04A0900
9	3000K	90	1701	1890	155	360	D	L2C6-30902L04A0900
9	3500K	90	1771	1968	161	360	D	L2C6-35902L04A0900
9	4000K	90	1812	2013	165	360	D	L2C6-40902L04A0900
9	5000K	90	1817	2019	165	360	D	L2C6-50902L04A0900
13	2700K	80	2145	2383	156	450	D	L2C6-2780xL05A1300
13	3000K	80	2243	2492	163	450	D	L2C6-3080xL05A1300
13	3500K	80	2314	2571	169	450	D	L2C6-3580xL05A1300
13	4000K	80	2366	2629	172	450	D	L2C6-4080xL05A1300
13	5000K	80	2366	2629	172	450	D	L2C6-5080xL05A1300
13	5700K	80	2320	2578	169	450	D	L2C6-57803L05A1300
13	6500K	80	2300	2556	168	450	D	L2C6-65803L05A1300
13	2700K	90	2026	2252	148	450	D	L2C6-27902L05A1300
13	3000K	90	2115	2350	154	450	D	L2C6-30902L05A1300
13	3500K	90	2176	2418	158	450	D	L2C6-35902L05A1300
13	4000K	90	2246	2495	164	450	D	L2C6-40902L05A1300
13	5000K	90	2253	2503	164	450	D	L2C6-50902L05A1300
13	2700K	80	2590	2878	157	540	D	L2C6-2780xL06A1300
13	3000K	80	2692	2991	163	540	D	L2C6-3080xL06A1300
13	3500K	80	2754	3060	167	540	D	L2C6-3580xL06A1300
13	4000K	80	2814	3127	171	540	D	L2C6-4080xL06A1300
13	5000K	80	2815	3128	171	540	D	L2C6-5080xL06A1300
13	5700K	80	2807	3119	170	540	D	L2C6-57803L06A1300
13	6500K	80	2778	3087	169	540	D	L2C6-65803L06A1300
13	2700K	90	2428	2698	147	540	D	L2C6-27902L06A1300
13	3000K	90	2528	2809	153	540	D	L2C6-30902L06A1300
13	3500K	90	2635	2928	160	540	D	L2C6-35902L06A1300
13	4000K	90	2717	3019	165	540	D	L2C6-40902L06A1300
13	5000K	90	2728	3031	166	540	D	L2C6-50902L06A1300

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

LES <sup>[4]</sup> (mm)	NOMINAL CCT	MINIMUM CRI <sup>[1, 2, 3]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	ENERGY EFFICIENCY CLASS <sup>[5]</sup>	PART NUMBER
			MINIMUM	TYPICAL				
15	2700K	80	3416	3795	155	720	D	L2C6-2780xL08A1500
15	3000K	80	3595	3994	164	720	D	L2C6-3080xL08A1500
15	3500K	80	3675	4083	167	720	D	L2C6-3580xL08A1500
15	4000K	80	3747	4163	171	720	D	L2C6-4080xL08A1500
15	5000K	80	3747	4163	171	720	D	L2C6-5080xL08A1500
15	5700K	80	3737	4152	170	720	D	L2C6-57803L08A1500
15	6500K	80	3645	4050	166	720	D	L2C6-65803L08A1500
15	2700K	90	3221	3579	147	720	D	L2C6-27902L08A1500
15	3000K	90	3336	3707	152	720	D	L2C6-30902L08A1500
15	3500K	90	3475	3861	158	720	D	L2C6-35902L08A1500
15	4000K	90	3602	4002	164	720	D	L2C6-40902L08A1500
15	5000K	90	3613	4014	164	720	D	L2C6-50902L08A1500
15	2700K	80	4198	4664	153	900	D	L2C6-2780xL10A1500
15	3000K	80	4417	4908	161	900	D	L2C6-3080xL10A1500
15	3500K	80	4505	5006	164	900	D	L2C6-3580xL10A1500
15	4000K	80	4671	5190	170	900	D	L2C6-4080xL10A1500
15	5000K	80	4671	5190	170	900	D	L2C6-5080xL10A1500
15	5700K	80	4594	5104	167	900	D	L2C6-57803L10A1500
15	6500K	80	4550	5055	166	900	D	L2C6-65803L10A1500
15	2700K	90	4041	4490	147	900	D	L2C6-27902L10A1500
15	3000K	90	4168	4631	152	900	D	L2C6-30902L10A1500
15	3500K	90	4281	4757	156	900	D	L2C6-35902L10A1500
15	4000K	90	4450	4944	162	900	D	L2C6-40902L10A1500
15	5000K	90	4463	4959	163	900	D	L2C6-50902L10A1500
22	2700K	90	4511	5012	149	990	D	L2C6-27902L11A2200
22	3000K	90	4720	5244	156	990	D	L2C6-30902L11A2200
22	3500K	90	4928	5476	163	990	D	L2C6-35902L11A2200
22	4000K	90	5049	5610	167	990	D	L2C6-40902L11A2200
22	5000K	90	5061	5623	168	990	D	L2C6-50902L11A2200
22	2700K	80	5678	6309	159	1170	D	L2C6-2780xL13A2200
22	3000K	80	5914	6571	166	1170	D	L2C6-3080xL13A2200
22	3500K	80	5943	6603	166	1170	D	L2C6-3580xL13A2200
22	4000K	80	6214	6904	174	1170	C	L2C6-4080xL13A2200
22	5000K	80	6214	6904	174	1170	C	L2C6-5080xL13A2200
22	5700K	80	6091	6768	171	1170	D	L2C6-57803L13A2200
22	6500K	80	6030	6700	169	1170	D	L2C6-65803L13A2200

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

LES <sup>[4]</sup> (mm)	NOMINAL CCT	MINIMUM CRI <sup>[1, 2, 3]</sup>	LUMINOUS FLUX <sup>[1]</sup> (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	ENERGY EFFICIENCY CLASS <sup>[5]</sup>	PART NUMBER
			MINIMUM	TYPICAL				
22	2700K	90	5309	5899	149	1170	D	L2C6-27902L13A2200
22	3000K	90	5578	6198	156	1170	D	L2C6-30902L13A2200
22	3500K	90	5801	6446	163	1170	D	L2C6-35902L13A2200
22	4000K	90	5940	6600	166	1170	D	L2C6-40902L13A2200
22	5000K	90	5957	6619	167	1170	D	L2C6-50902L13A2200
22	2700K	80	7010	7789	160	1440	D	L2C6-2780xL16A2200
22	3000K	80	7176	7973	163	1440	D	L2C6-3080xL16A2200
22	3500K	80	7183	7981	163	1440	D	L2C6-3580xL16A2200
22	4000K	80	7455	8283	170	1440	D	L2C6-4080xL16A2200
22	5000K	80	7455	8283	170	1440	D	L2C6-5080xL16A2200
22	5700K	80	7433	8259	169	1440	D	L2C6-57803L16A2200
22	6500K	80	7322	8135	167	1440	D	L2C6-65803L16A2200
22	2700K	90	6440	7156	147	1440	D	L2C6-27902L16A2200
22	3000K	90	6697	7441	152	1440	D	L2C6-30902L16A2200
22	3500K	90	7033	7814	160	1440	D	L2C6-35902L16A2200
22	4000K	90	7132	7924	162	1440	D	L2C6-40902L16A2200
22	5000K	90	7151	7946	163	1440	D	L2C6-50902L16A2200
22	2700K	80	7538	8376	152	1080	D	L2C6-2780xR12A2200
22	3000K	80	7853	8725	158	1080	D	L2C6-3080xR12A2200
22	3500K	80	8050	8944	162	1080	D	L2C6-3580xR12A2200
22	4000K	80	8599	9554	173	1080	C	L2C6-4080xR12A2200
22	5000K	80	8599	9554	173	1080	C	L2C6-5080xR12A2200
22	5700K	80	8167	9074	165	1080	D	L2C6-57803R12A2200
22	6500K	80	8088	8987	163	1080	D	L2C6-65803R12A2200
22	2700K	80	11093	12325	149	1620	D	L2C6-2780xR18A2200
22	3000K	80	11554	12838	155	1620	D	L2C6-3080xR18A2200
22	3500K	80	11843	13159	159	1620	D	L2C6-3580xR18A2200
22	4000K	80	12132	13480	163	1620	D	L2C6-4080xR18A2200
22	5000K	80	12132	13480	163	1620	D	L2C6-5080xR18A2200
22	5700K	80	12017	13352	162	1620	D	L2C6-57803R18A2200
22	6500K	80	11902	13224	160	1620	D	L2C6-65803R18A2200

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.