



LUXEON CX Plus CoB – High Density

Higher lumen density with industry standard footprint



LUXEON CX Plus CoB – High Density LEDs focus on delivering the highest flux, up to 5600 lumens, with an industry standard footprint of 13.35mm x 13.35mm and Light Emitting Surfaces of 4.5mm, 6mm, and 9mm. The combination of superior performance and industry standard footprint allows for an immediate and effortless upgrade to higher flux luminaire designs within existing ecosystems. LUXEON CX Plus CoB – High Density is available in 2- and 3-step MacAdam ellipse color definition, enabling color consistency.

FEATURES AND BENEFITS

Industry's smallest Light Emitting Surfaces (LES) for highest lumen densities

An immediate, effortless upgrade to existing designs using legacy CoBs with a square footprint

2- and 3-step MacAdam ellipse ensuring color consistency from luminaire to luminaire

PRIMARY APPLICATIONS

Spotlights

Track Lights

Downlights

LUXEON CX Plus CoB – High Density 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 ^{[5] (mm)}	ENERGY EFFICIENCY CLASS ^[7]	PART NUMBER ^[6]
			MINIMUM	TYPICAL ^[4]					
LUXEON CX Plus CoB – HD S01H4	2700K	80	667	725	110	175	4.5	F	L2C4-2780xS01F0400
	3000K	80	713	775	118	175	4.5	F	L2C4-3080xS01F0400
	3500K	80	727	790	120	175	4.5	E	L2C4-3580xS01F0400
	4000K	80	750	815	124	175	4.5	E	L2C4-4080xS01F0400
	5000K	80	750	815	124	175	4.5	E	L2C4-5080xS01F0400
	2700K	90	580	630	96	175	4.5	F	L2C4-2790xS01F0400
	3000K	90	603	655	100	175	4.5	F	L2C4-3090xS01F0400
	3500K	90	639	695	106	175	4.5	F	L2C4-3590xS01F0400
	4000K	90	653	710	108	175	4.5	F	L2C4-4090xS01F0400
	5000K	90	644	700	107	175	4.5	F	L2C4-5090xS01F0400
LUXEON CX Plus CoB – HD S01H6	2700K	80	699	760	116	175	6.0	F	L2C4-2780xS01FH600
	3000K	80	741	805	123	175	6.0	E	L2C4-3080xS01FH600
	3500K	80	750	815	124	175	6.0	E	L2C4-3580xS01FH600
	4000K	80	759	825	126	175	6.0	E	L2C4-4080xS01FH600
	5000K	80	759	825	126	175	6.0	E	L2C4-5080xS01FH600
	2700K	90	593	645	98	175	6.0	F	L2C4-2790xS01FH600
	3000K	90	621	675	103	175	6.0	F	L2C4-3090xS01FH600
	3500K	90	649	705	107	175	6.0	F	L2C4-3590xS01FH600
	4000K	90	672	730	111	175	6.0	F	L2C4-4090xS01FH600
	5000K	90	667	725	110	175	6.0	F	L2C4-5090xS01FH600
LUXEON CX Plus CoB – HD S02H6	2700K	80	1352	1470	112	350	6.0	F	L2C4-2780xS02F0600
	3000K	80	1426	1550	118	350	6.0	F	L2C4-3080xS02F0600
	3500K	80	1454	1580	120	350	6.0	E	L2C4-3580xS02F0600
	4000K	80	1518	1650	126	350	6.0	E	L2C4-4080xS02F0600
	5000K	80	1518	1650	126	350	6.0	E	L2C4-5080xS02F0600
	2700K	90	1159	1260	96	350	6.0	Note 8	L2C4-2790xS02F0600
	3000K	90	1228	1335	102	350	6.0	F	L2C4-3090xS02F0600
	3500K	90	1297	1410	107	350	6.0	F	L2C4-3590xS02F0600
	4000K	90	1334	1450	110	350	6.0	F	L2C4-4090xS02F0600
	5000K	90	1320	1435	109	350	6.0	F	L2C4-5090xS02F0600
LUXEON CX Plus CoB – HD S04H9	2700K	80	2742	2980	114	700	9.0	F	L2C4-2780xS04F0900
	3000K	80	2926	3180	121	700	9.0	E	L2C4-3080xS04F0900
	3500K	80	2990	3250	124	700	9.0	E	L2C4-3580xS04F0900
	4000K	80	3054	3320	126	700	9.0	E	L2C4-4080xS04F0900
	5000K	80	3054	3320	126	700	9.0	E	L2C4-5080xS04F0900
	2700K	90	2282	2480	94	700	9.0	Note 8	L2C4-2790xS04F0900
	3000K	90	2429	2640	101	700	9.0	Note 8	L2C4-3090xS04F0900
	3500K	90	2576	2800	107	700	9.0	F	L2C4-3590xS04F0900
	4000K	90	2659	2890	110	700	9.0	F	L2C4-4090xS04F0900
	5000K	90	2631	2860	109	700	9.0	F	L2C4-5090xS04F0900

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 and for 80CRI products it is >0.
4. Maximum flux is 10% above typical flux.
5. Light Emitting Surface (LES) is the inner diameter (phosphor area) inside the dam.
6. Part number "x" designates SDCM (2=2-step MacAdam ellipse, 3=3-step MacAdam ellipse).
7. Energy efficiency class as specified in Commission Delegated Regulation (EU) 2019/2015. The available range of energy efficiency classes is A-G.
8. Exception: Not available in EU or UK.

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