



LUXEON CoB Core Range High Density Gen 2

Double the flux in the same form factor



LUXEON CoB Core Range – High Density focuses on achieving the highest Center Beam Candle Power (CBCP). Using the mechanical dimensions of our LUXEON CoB Core Range, the High Density range will also benefit from the ability to utilize existing an ecosystem of holders, optics and drivers.

FEATURES AND BENEFITS

Highest flux densities with the smallest LES

3-step MacAdam ellipse color definition: *Freedom from Binning* for color consistency from luminaire to luminaire

Superior thermal resistance, enabling smaller heatsinks and higher lumens

Supported by a comprehensive optical, mechanical and electrical ecosystem

PRIMARY APPLICATIONS

Spotlights

Track Lights

Downlights

LUXEON CoB Core Range High Density (Gen 2) product performance at specified test current, T_j=85°C.

LES ⁽¹⁾ (mm)	NOMINAL CCT	MINIMUM CRI ^(2, 3, 4)	LUMINOUS FLUX ⁽²⁾ (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TEST CURRENT (mA)	ENERGY EFFICIENCY CLASS ⁽⁵⁾	PART NUMBER
			MINIMUM	TYPICAL				
6	4000K	70	1654	1838	144	350	E	L2C5-40701202FH600
6	5000K	70	1654	1838	144	350	E	L2C5-50701202FH600
6	2700K	80	1418	1576	123	350	E	L2C5-27801202FH600
6	3000K	80	1473	1637	128	350	E	L2C5-30801202FH600
6	3500K	80	1514	1682	132	350	E	L2C5-35801202FH600
6	4000K	80	1549	1721	135	350	E	L2C5-40801202FH600
6	5000K	80	1538	1709	134	350	E	L2C5-50801202FH600
6	5700K	80	1538	1709	134	350	E	L2C5-57801202FH600
6	2700K	90	1244	1382	108	350	F	L2C5-27901202FH600
6	3000K	90	1299	1443	113	350	F	L2C5-30901202FH600
6	3500K	90	1312	1458	114	350	F	L2C5-35901202FH600
6	4000K	90	1315	1461	114	350	F	L2C5-40901202FH600
9	3000K	70	3230	3589	140	700	E	L2C5-30701204F0900
9	3500K	70	3262	3624	142	700	E	L2C5-35701204F0900
9	4000K	70	3293	3659	143	700	E	L2C5-40701204F0900
9	5000K	70	3293	3659	143	700	E	L2C5-50701204F0900
9	5700K	70	3308	3675	144	700	E	L2C5-57701204F0900
9	6500K	70	3303	3670	144	700	E	L2C5-65701204F0900
9	2700K	80	2804	3116	122	700	E	L2C5-27801204F0900
9	3000K	80	3011	3345	131	700	E	L2C5-30801204F0900
9	3500K	80	3064	3404	133	700	E	L2C5-35801204F0900
9	4000K	80	3184	3538	138	700	E	L2C5-40801204F0900
9	5000K	80	3099	3443	135	700	E	L2C5-50801204F0900
9	5700K	80	3099	3443	135	700	E	L2C5-57801204F0900
9	2700K	90	2441	2712	106	700	F	L2C5-27901204F0900
9	3000K	90	2588	2875	113	700	F	L2C5-30901204F0900
9	3500K	90	2626	2918	114	700	F	L2C5-35901204F0900
9	4000K	90	2742	3047	119	700	E	L2C5-40901204F0900
11	4000K	70	4325	4805	146	900	D	L2C5-40701205F1100
11	5000K	70	4325	4805	146	900	D	L2C5-50701205F1100
11	2700K	80	3633	4037	123	900	E	L2C5-27801205F1100
11	3000K	80	3806	4229	129	900	E	L2C5-30801205F1100
11	3500K	80	3996	4440	135	900	E	L2C5-35801205F1100
11	4000K	80	4004	4449	135	900	E	L2C5-40801205F1100
11	5000K	80	3889	4321	132	900	E	L2C5-50801205F1100
11	5700K	80	3889	4321	132	900	E	L2C5-57801205F1100
11	2700K	90	3177	3530	107	900	F	L2C5-27901205F1100
11	3000K	90	3314	3682	112	900	F	L2C5-30901205F1100
11	4000K	90	3598	3998	122	900	E	L2C5-40901205F1100

Notes:

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

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