



# LUXEON CoB Core Range with CrispColor Technology™

Fashion retail lighting that makes an impact, highlighting rich colors and increasing contrast



The LUXEON CoB Core Range with CrispColor Technology LED is the ultimate solution that makes colors pop and makes fabrics come to life. With efficient solid state lighting technology, the contrast of colors has never been so vivid. Our special phosphor technology has created a higher gamut color rendering than existing solutions with a specific color point below the Black Body Line to allow for Class A products. Combined with industry leading performance, LUXEON CoB Core Range with CrispColor Technology creates a highly impactful retail experience with all of the advantages of our LUXEON CoB range, including lowest  $R_{th}$ , small Light Emitting Surface (LES) and 3-step MacAdam ellipse color definition, which is tested at 85°C.

## FEATURES AND BENEFITS

Highest flux densities with industry's smallest Light Emitting Surface (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

Downlights

Indoor Area Lighting

Lamps

Spotlights



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

PRODUCT	NOMINAL CCT	MIN 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	2700K	90	588	653	95	200	6	F	L2C5-27HG1202E0600
	3000K	90	630	700	101	200	6	F	L2C5-30HG1202E0600
	3250K	90	648	720	104	200	6	F	L2C5-33HG1202E0600
	3500K	90	656	729	106	200	6	F	L2C5-35HG1202E0600
	4000K	90	690	767	111	200	6	F	L2C5-40HG1202E0600
	5000K	90	716	796	115	200	6	F	L2C5-50HG1202E0600
LUXEON CoB 1202	2700K	90	613	681	99	200	9	F	L2C5-27HG1202E0900
	3000K	90	648	720	104	200	9	F	L2C5-30HG1202E0900
	3250K	90	675	750	109	200	9	F	L2C5-33HG1202E0900
	3500K	90	683	759	110	200	9	F	L2C5-35HG1202E0900
	4000K	90	720	800	116	200	9	F	L2C5-40HG1202E0900
	5000K	90	748	831	120	200	9	E	L2C5-50HG1202E0900
LUXEON CoB 1203	2700K	90	907	1008	97	300	9	F	L2C5-27HG1203E0900
	3000K	90	972	1080	104	300	9	F	L2C5-30HG1203E0900
	3250K	90	1017	1130	109	300	9	F	L2C5-33HG1203E0900
	3500K	90	1035	1150	111	300	9	F	L2C5-35HG1203E0900
	4000K	90	1066	1184	114	300	9	F	L2C5-40HG1203E0900
	5000K	90	1106	1229	119	300	9	F	L2C5-50HG1203E0900
LUXEON CoB 1204	2700K	90	1424	1582	101	450	13	Note 6	L2C5-27HG1204E1300
	3000K	90	1494	1660	106	450	13	F	L2C5-30HG1204E1300
	3250K	90	1575	1750	112	450	13	F	L2C5-33HG1204E1300
	3500K	90	1594	1771	113	450	13	F	L2C5-35HG1204E1300
	4000K	90	1656	1840	117	450	13	F	L2C5-40HG1204E1300
	5000K	90	1737	1930	123	450	13	E	L2C5-50HG1204E1300
LUXEON CoB 1205	2700K	90	1850	2055	98	600	13	Note 6	L2C5-27HG1205E1300
	3000K	90	2046	2273	108	600	13	F	L2C5-30HG1205E1300
	3250K	90	2034	2260	108	600	13	F	L2C5-33HG1205E1300
	3500K	90	2070	2300	110	600	13	F	L2C5-35HG1205E1300
	4000K	90	2172	2413	115	600	13	F	L2C5-40HG1205E1300
	5000K	90	2255	2506	119	600	13	E	L2C5-50HG1205E1300
LUXEON CoB 1208	2700K	90	2775	3083	98	900	15	Note 6	L2C5-27HG1208E1500
	3000K	90	3074	3415	109	900	15	F	L2C5-30HG1208E1500
	3250K	90	3105	3450	110	900	15	F	L2C5-33HG1208E1500
	3500K	90	3105	3450	110	900	15	F	L2C5-35HG1208E1500
	4000K	90	3263	3626	116	900	15	F	L2C5-40HG1208E1500
	5000K	90	3389	3766	120	900	15	E	L2C5-50HG1208E1500

Table continued on next page. 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.

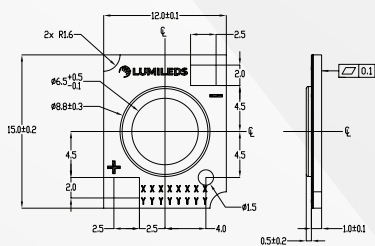
LUXEON CoB Core Range with CrispColor Technology product performance at specified test current,  $T_j=85^{\circ}\text{C}$  (continued).

PRODUCT	NOMINAL CCT	MIN 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	2700K	90	3803	4226	101	1200	19	Note 6	L2C5-27HG1211E1900
	3000K	90	4137	4597	110	1200	19	F	L2C5-30HG1211E1900
	3250K	90	4190	4656	111	1200	19	F	L2C5-33HG1211E1900
	3500K	90	4264	4738	113	1200	19	F	L2C5-35HG1211E1900
	4000K	90	4466	4962	119	1200	19	E	L2C5-40HG1211E1900
	5000K	90	4638	5153	123	1200	19	E	L2C5-50HG1211E1900
LUXEON CoB 1216	2700K	90	4994	5549	101	1600	23	Note 6	L2C5-27HG1216E2300
	3000K	90	5450	6055	110	1600	23	F	L2C5-30HG1216E2300
	3250K	90	5492	6102	111	1600	23	F	L2C5-33HG1216E2300
	3500K	90	5589	6210	113	1600	23	F	L2C5-35HG1216E2300
	4000K	90	5864	6515	118	1600	23	F	L2C5-40HG1216E2300
	5000K	90	6089	6766	123	1600	23	E	L2C5-50HG1216E2300

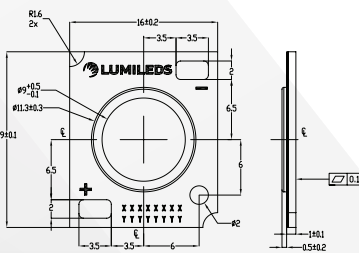
## Notes (continued):

1. Lumileds maintains a tolerance of  $\pm 2$  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. 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.

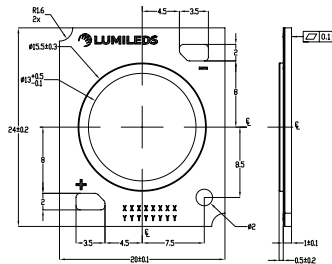
### Mechanical Dimensions.



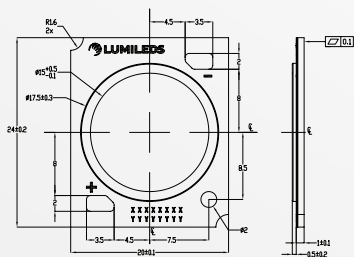
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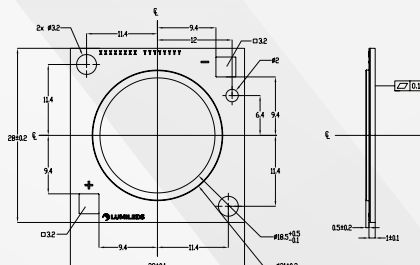
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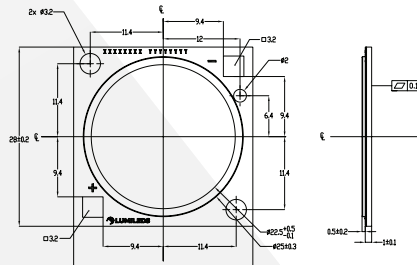
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L2C5-xxHG1205E1300



L2C5-xxHG1208E1500



L2C5-xxHG1211E1900



L2C5-xxHG1216E2300

Notes:

1. Drawings are not scale.  
2. All dimensions are in millimeters.

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