



LUXEON CoB Core Range – High Density

Double the flux in the same form factor



LUXEON CoB Core Range – High Density focuses on achieving the highest Center Beam Candle Power (CBCP). With a focus on 6, 9 and 11mm Light Emitting Surfaces, we can cover a flux range as high as 8,000 lumens. 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 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

Downlights

Outdoor

Spotlights

LUXEON CoB Core Range – 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 ^[4] (mm)	PART NUMBER
			MINIMUM	TYPICAL				
LUXEON CoB 1202HD	3000K	70	1388	1542	119	350	6	L2C5-30701202EH600
	4000K	70	1505	1673	129	350	6	L2C5-40701202EH600
	5000K	70	1505	1673	129	350	6	L2C5-50701202EH600
	2700K	80	1240	1378	106	350	6	L2C5-27801202EH600
	3000K	80	1368	1520	117	350	6	L2C5-30801202EH600
	3500K	80	1406	1562	121	350	6	L2C5-35801202EH600
	4000K	80	1438	1598	123	350	6	L2C5-40801202EH600
	5000K	80	1425	1583	122	350	6	L2C5-50801202EH600
	5700K	80	1432	1591	123	350	6	L2C5-57801202EH600
	2700K	90	1059	1177	91	350	6	L2C5-27901202EH600
	3000K	90	1124	1248	96	350	6	L2C5-30901202EH600
	3500K	90	1223	1359	105	350	6	L2C5-35901202EH600
	4000K	90	1217	1353	104	350	6	L2C5-40901202EH600
LUXEON CoB 1204HD	3000K	70	2887	3207	124	700	9	L2C5-30701204E0900
	3500K	70	2800	3111	120	700	9	L2C5-35701204E0900
	4000K	70	3011	3345	129	700	9	L2C5-40701204E0900
	5000K	70	3011	3345	129	700	9	L2C5-50701204E0900
	5700K	70	2866	3185	123	700	9	L2C5-57701204E0900
	6500K	70	2824	3137	121	700	9	L2C5-65701204E0900
	2200K	80	2140	2378	92	700	9	L2C5-22801204E0900
	2700K	80	2554	2838	110	700	9	L2C5-27801204E0900
	3000K	80	2688	2987	115	700	9	L2C5-30801204E0900
	3500K	80	2742	3047	118	700	9	L2C5-35801204E0900
	4000K	80	2850	3167	122	700	9	L2C5-40801204E0900
	5000K	80	2850	3167	122	700	9	L2C5-50801204E0900
	5700K	80	2891	3212	124	700	9	L2C5-57801204E0900
	2200K	90	1864	2071	80	700	9	L2C5-22901204E0900
	2700K	90	2130	2366	91	700	9	L2C5-27901204E0900
	3000K	90	2269	2521	97	700	9	L2C5-30901204E0900
	3200K	90	2271	2523	97	700	9	L2C5-32901204E0900
	3500K	90	2365	2628	101	700	9	L2C5-35901204E0900
	4000K	90	2458	2731	105	700	9	L2C5-40901204E0900
	LUXEON CoB 1205HD	3000K	70	3360	3950	119	900	11
4000K		70	3780	4200	126	900	11	L2C5-40701205E1100
5000K		70	3780	4200	126	900	11	L2C5-50701205E1100
2700K		80	3207	3563	107	900	11	L2C5-27801205E1100
3000K		80	3375	3750	113	900	11	L2C5-30801205E1100
3500K		80	3546	3940	118	900	11	L2C5-35801205E1100
4000K		80	3650	4056	122	900	11	L2C5-40801205E1100
5000K		80	3545	3939	118	900	11	L2C5-50801205E1100
5700K		80	3702	4114	124	900	11	L2C5-57801205E1100
2700K		90	2727	3030	91	900	11	L2C5-27901205E1100
3000K		90	2934	3260	98	900	11	L2C5-30901205E1100
4000K		90	3119	3465	104	900	11	L2C5-40901205E1100

Table 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.

©2018 Lumileds Holding B.V. All rights reserved. LUXEON is a registered trademark of the Lumileds Holding B.V. in the United States and other countries.

lumileds.com

Neither Lumileds Holding B.V. nor its affiliates shall be liable for any kind of loss of data or any other damages, direct, indirect or consequential, resulting from the use of the provided information and data. Although Lumileds Holding B.V. and/or its affiliates have attempted to provide the most accurate information and data, the materials and services information and data are provided "as is," and neither Lumileds Holding B.V. nor its affiliates warrants or guarantees the contents and correctness of the provided information and data. Lumileds Holding B.V. and its affiliates reserve the right to make changes without notice. You as user agree to this disclaimer and user agreement with the download or use of the provided materials, information and data. A listing of Lumileds product/patent coverage may be accessed at lumileds.com/patents.