



LUXEON CoB with CrispWhite Technology

Retail lighting that makes an impact



LUXEON CoB with CrispWhite Technology delivers the warm saturated colors of high 90 CRI solutions while creating the natural crisp whiteness required of merchandise in retail shops. As part of the LUXEON CoB family, it benefits from its industry-leading small Light-Emitting Surface (LES) as well as its world-class low thermal resistance.

LUXEON CoB with CrispWhite Technology creates the most impactful retail lighting ever available, by revealing the richest whites, vibrant reds and colors that pop.

Features

- 90 CRI with CrispWhite Technology
- Hot targeted within a 3 SDCM below the BBL
- Creating a second blue peak (~410-415nm) in the spectrum
- Efficacies of >90 lm/W
- Lumen packages from 1,000 to >5,000
- Tested at $T_j = 85^\circ\text{C}$
- Robust MCPCB solution
- Mousebites for M2/M3 screws

Benefits

- Perfect combination of warm saturated colors and white that stands out!
- Ideal for CDM-CMH replacement
- Activates the fluorescent whitening agents in paints/fabrics
- High efficacy
- Real world application testing
- Easy to handle in manufacturing and operations
- Easy to screw down arrays
- Drivers, holders and optics available

Key Applications

- Downlight
- High Bay & Low Bay
- Lamps
- Spotlight

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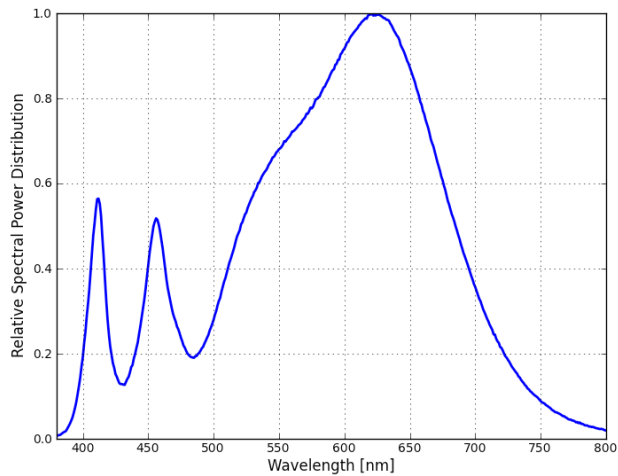
LUXEON CoB with CrispWhite Technology Selection Guide

Part Number	Nominal CCT ^[2]	Typical CRI ^[2]	Forward Voltage ^[2] (V)	Test Current (mA)	Typical Luminous Flux @ Test Current ^[1] (lm)	Typical Efficacy @ Test Current ^[2] (lm/W)	LES ^[3]
LHC1-3090-1202CRSP	3000K	92	35.5	300	625	90	9
LHC1-3090-1203CRSP	3000K	92	35.5	300	950	90	9
LHC1-3090-1204CRSP	3000K	92	35.5	450	1400	90	13
LHC1-3090-1205CRSP	3000K	92	35.5	600	1900	90	13
LHC1-3090-1208CRSP	3000K	92	35.5	900	2800	90	15
LHC1-3090-1211CRSP	3000K	92	35.5	1200	3750	90	19

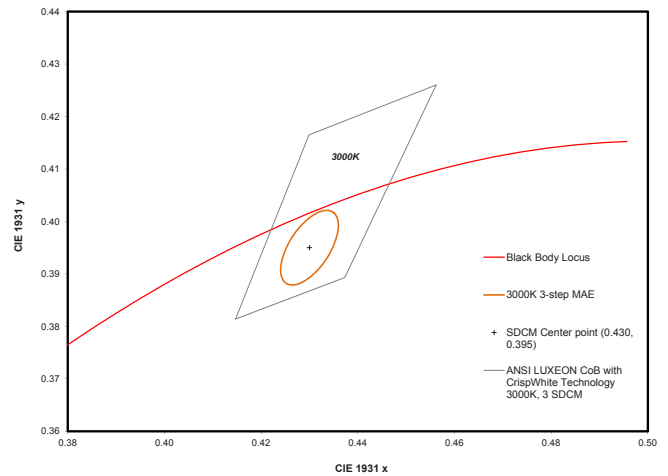
Notes:

- Philips Lumileds maintains a tolerance of $\pm 6.5\%$ on luminous flux and ± 2 on CRI measurements.
- Binned and color targeted at 85°C.
- Light Emitting Surface (LES) is the inner diameter (phosphor area) inside the dam.

Relative Spectral Distribution vs. Wavelength



Color Bin Definition



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