

LUMINUS

HORTICULTURE

HORTICULTURE • AGRICULTURE • FARMING

Luminus horticulture portfolios span the spectrum from UV to Near Infrared Red and offer a range of beam angles so that the right solution can be implemented for each crop. With high-power, mid-power and COB options, Luminus has the field covered. Our 450nm deep-blue and 660nm deep-red LEDs are excellent sources for photosynthesis and our 730nm far-red stimulates a plant's life-cycle from germination to vegetative growth and flowering. Newly added horticulture white LEDs make it easier to observe crops for signs of disease, improve human comfort, and, can replace or supplement blue LEDs as they provide similar PPF, and thereby potentially reduce production costs.

Luminus horticulture COBs are application specific and emit a custom spectrum that provides high PPF for indoor lighting of specific crops.

HORTICULTURE, AGRICULTURE AND FARMING

- Top Lighting
- Inter Lighting
- Multi-layer cultivation
- Urban Farming
- Vertical Farming
- Dairy Production
- Poultry Production
- Hog Farming
- Algae Growth Lights

FEATURES & BENEFITS

- Extensive range of LED packages with excellent PPF and PPF/W values
- Wavelengths from UV (280nm) to Far Red (730nm) for high power applications
- Plant-specific spectrums in COB package
- High PPF efficacy mid-power LEDs for cost-constrained horticulture fixtures
- 90 and/or 130° viewing angle at 50% Iv
- Low Thermal Resistance
- Significant water savings
- Suitable for all types of crops
- RoHS and REACH compliant

COB	Product	Color	Package	Max Drive Current	Optical Output
	CXM-14	Purple	19 mm * 19 mm (AC) 14.3 mm LES	1440 mA	40 ~ 72 (μmol/s) at 720 mA
	CLM-22	Purple	28 mm * 28 mm (AC) 22 mm LES	2200 mA	60 ~ 115 (μmol/s) at 1100 mA
	CXM-22	Purple	28 mm * 28 mm (AC) 22 mm LES	2200 mA	90 ~ 165 (μmol/s) at 1100 mA

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HORTICULTURE PRODUCT PORTFOLIO

	Product	Color	Package	Max Drive Current	Optical Output
	SST-10-UV	365 nm 385 nm 395 nm 405 nm	3.45 mm x 3.45 mm SMT	1.0 A	0.7 W to 0.9 W 0.9 W to 1.2 W 0.9 W to 1.2 W 0.8 W to 1.0 W
	SST-10-B	Blue 450 nm	3.45 mm x 3.45 mm SMT	1.5 A	510 – 670 mW
	SST-20-B	Blue 450 nm	3.45 mm x 3.45 mm SMT	3.0 A	630 – 830 mW
	SST-10-SB	Sky Blue 470 nm	3.45 mm x 3.45 mm SMT	1.5 A	470 – 690 mW
	SST-10-G	Green 527 nm	3.45 mm x 3.45 mm SMT	1.5 A	190 – 350 mW
	SST-10-R	Red 621 nm	3.45 mm x 3.45 mm SMT	1.5 A	230 – 390 mW
	SST-10-DR	Deep Red 660 nm	3.45 mm x 3.45 mm SMT	1.5 A	270 – 430 mW
	SST-10-FR	730 nm	3.45 mm x 3.45 mm SMT	1.5 A	270 – 390 mW
	SST-20-WxS	5000-6500K White	3.45 mm x 3.45 mm SMT	3.0 A	900 – 1100 lm
	SST-20-WxH	2700-4000K White 95 CRI	3.45 mm x 3.45 mm SMT	3.0 A	155 – 320 lm
	MP-3030-110H	2200-6500K 80/90/95 CRI	3 mm x 3 mm	200 mA	22 – 35 lm
	MP-3030-12ZH	2200-6500K 80/90/95 CRI	3 mm x 3 mm	400 mA	23 – 36 lm
	MP-3030-210H	2200-6500K 80/90/95 CRI	3 mm x 3 mm	240 mA	104 – 148 lm
	MP-5050-8100	2700-6500K 70/80/90 CRI	5 mm x 5 mm	240 mA	580 – 785 lm
 135 degree	CUBE-1616-1103	1800-6500K	1.6 mm x 1.6 mm	200 mA	38 – 65 lm
 135 degree	CUBE-1616-2103		1.6 mm x 1.6 mm		75 – 131 lm