

HORTICULTURE SOLUTIONS

The Luminus horticulture portfolio spans the spectrum from UV-A to Near Infrared Red. And because the illumination needs for crops vary, our SST family features two different beam angles: 90-degree and 120/130-degree so that the right solution can be implemented for each crop.

Luminus' 450nm deep-blue and 660nm deep-red LEDs are used to provide light for photosynthesis. The 730nm far-red is used for a plant's life-cycle from germination to vegetative growth and flowering. To make a more comfortable working environment for people, Luminus offers a horticulture white LED that can also be used to increase blue spectrum and broaden the engineering options.

Horticulture COBs are the most recent addition to Luminus' offering. These application specific COBs provide high PPF in a custom spectrum suited for indoor lighting of specific crops.

Luminus COB and mid-power LEDs offer extensive options that are the perfect solutions for supplemental lighting or for applications where PPF/W/\$ is the key metric.



SMD Series

SST SERIES SELECTOR GUIDE					
Product Image	Product	Color	Package	Max Drive Current	Optical Output
	SST-10-UV I	365 nm	SMT 3.45 mm x 3.45 mm	1.0 A	0.7 W - 0.9 W
		385 nm			0.9 W - 1.2 W
		395 nm			0.9 W - 1.2 W
		405 nm			0.8 W - 1.0 W
	SST-10-B	Blue (450 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	510 - 670 mW (0.35 A)
	SST-20-B	Blue (450 nm)	SMT 3.45 mm x 3.45 mm	2.0 A	620 - 820 mW (0.35 A)
	SST-10-SB	Sky Blue (470 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	470 - 590 mW (0.35 A)
	SST-10-G	Green (527 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	190 - 350 mW (0.35 A)
	SST-10-R	Red (621 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	220 - 390 mW (0.35 A)
	SST-10-DR	Deep Red (660 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	270 - 420 mW (0.35 A)
	SST-20-DR	Deep Red (660 nm)	SMT 3.45 mm x 3.45 mm	2.0 A	790 - 990 mW (0.70 A)
	SST-20-DR Gen 2	Deep Red (660 nm)	SMT 3.45 mm x 3.45 mm	2.0 A	670 - 1070 mW (0.70 A)
	SST-10-FR	Far Red (730 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	270 - 390 mW (0.35 A)
	SST-20-WxS I	5000 - 6500 K White, Standard CRI	SMT 3.45 mm x 3.45 mm	2 A	900 - 1100 lm (2 A)
	SST-20-WxH I	2700 - 4000 K White, 95 CRI	SMT 3.45 mm x 3.45 mm	2 A	155 - 220 lm (700 mA)

COB SERIES SELECTOR GUIDE

Product Image	Product	Color	Package	Max Drive Current	Optical Output
	CXM-14	Purple	COB package 19 mm x 19 mm (AC) 14.3 mm L&S	1,440 mA	40 - 72 (µmol/s)
	CXM-14	Plant White	COB package 19 mm x 19 mm (AC) 14.3 mm L&S	1,440 mA	40 - 72 (µmol/s)
	CLM-22	Purple	COB package 28 mm x 28 mm (AC) 22 mm L&S	2,200 mA	60 - 115 (µmol/s)
	CLM-22	Plant White	COB package 28 mm x 28 mm (AC) 22 mm L&S	2,200 mA	60 - 115 (µmol/s)
	CXM-22	Purple	COB package 28 mm x 28 mm (AC) 22 mm L&S	2,200 mA	90 - 165 (µmol/s)
	CXM-22	Plant White	COB package 28 mm x 28 mm (AC) 22 mm L&S	2,200 mA	90 - 165 (µmol/s)
	CXM-32	Plant White	COB package 38 mm x 38 mm (AC) 32 mm L&S	4,400 mA	200 - 360 (µmol/s)

MIDPOWER SERIES SELECTOR GUIDE

Product Image	Package Platform	Voltage (V)	Current (mA)	Input Power (W)	TYP FLUX (lm, 3000K, 80CRI)	TYP lm/W, 3000K, 80CRI
	NEW MP-2020-112H	2.8	65	0.182	33	181
	NEW MP-2020-122H	2.67	65	0.173	33.5	193
	NEW MP-2020-210H	6.0	150	0.9	140	154
	MP-2020-8100	24	200	4.8	630	131
	NEW CUBE1616-1103	3.0	150	0.45	62	139
	NEW CUBE1616-2103	6.0	150	1.0	110	131



Mid Power Series

SST SERIES SELECTOR GUIDE

Product Image	Product	Color	Package	Max Drive Current	Optical Output
	SST-10-UV	265 nm	SMT 3.45 mm x 3.45 mm	1.0 A	0.7 W - 0.9 W
		285 nm			0.9 W - 1.2 W
		395 nm			0.9 W - 1.2 W
		405 nm			0.8 W - 1.0 W
	SST-10-B	Blue (450 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	510 - 670 mW (0.25 A)
	SST-10-R	Blue (450 nm)	SMT 3.45 mm x 3.45 mm	2.0 A	630 - 830 mW (0.25 A)
	SST-10-SB	Sky Blue (470 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	470 - 590 mW (0.25 A)
	SST-10-G	Green (527 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	190 - 350 mW (0.25 A)
	SST-10-R	Red (621 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	220 - 290 mW (0.25 A)
	SST-10-DR	Deep Red (660 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	370 - 430 mW (0.25 A)
	SST-20-DR	Deep Red (660 nm)	SMT 3.45 mm x 3.45 mm	2.0 A	790 - 990 mW (0.70 A)
	SST-20-DR Gen 2	Deep Red (660 nm)	SMT 3.45 mm x 3.45 mm	2.0 A	870 - 1070 mW (0.70 A)
	SST-10-FR	Far Red (730 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	370 - 390 mW (0.25 A)
	SST-20-WW	5000 - 6500 K White, Standard CRI	SMT 3.45 mm x 3.45 mm	3 A	900 - 1100 lm (3 A)
	SST-20-WW	2700 - 4000 K White, 95 CRI	SMT 3.45 mm x 3.45 mm	2 A	155 - 220 lm (700 mA)

COB SERIES SELECTOR GUIDE

Product Image	Product	Color	Package	Max Drive Current	Optical Output
	CXM-14	Purple	COB package 19 mm x 19 mm (AC) 14.3 mm L&S	1,640 mA	40 – 72 (µmol/s)
	CXM-14	Plant White	COB package 19 mm x 19 mm (AC) 14.3 mm L&S	1,640 mA	40 – 72 (µmol/s)
	CLM-22	Purple	COB package 28 mm x 28 mm (AC) 22 mm L&S	2,200 mA	60 – 115 (µmol/s)
	CLM-22	Plant White	COB package 28 mm x 28 mm (AC) 22 mm L&S	2,200 mA	60 – 115 (µmol/s)
	CXM-22	Purple	COB package 28 mm x 28 mm (AC) 22 mm L&S	2,200 mA	90 – 165 (µmol/s)
	CXM-22	Plant White	COB package 28 mm x 28 mm (AC) 22 mm L&S	2,200 mA	90 – 165 (µmol/s)
	CXM-22	Plant White	COB package 28 mm x 28 mm (AC) 22 mm L&S	4,600 mA	200 – 360 (µmol/s)

MIDPOWER SERIES SELECTOR GUIDE








Product Image	Package Platform	Voltage (V)	Current (mA)	Input Power (W)	TYP FLUX (lm) 3000K, 80CRI	TYP lm/W 3000K, 80CRI
	NEW MP-2020-110W	2.8	65	0.182	39	191
	NEW MP-2020-122W	2.67	65	0.173	39.5	193
	NEW MP-2020-010W	6.0	180	0.9	140	156
	MP-3050-8100	24	200	4.8	630	131
	NEW CUBE1616-1103	3.0	180	0.45	62	138
	NEW CUBE1616-2103	6.0	180	1.0	118	131

COB Series







SST SERIES SELECTOR GUIDE

Product Image	Product	Color	Package	Max Drive Current	Optical Output
	SST-10-UV	265 nm 285 nm 295 nm 405 nm	SMT 3.45 mm x 3.45 mm	1.0 A	0.7 W - 0.9 W 0.9 W - 1.2 W 0.9 W - 1.2 W 0.8 W - 1.0 W
	SST-10-B	Blue (450 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	510 - 670 mW (0.25 A)
	SST-20-B	Blue (450 nm)	SMT 3.45 mm x 3.45 mm	2.0 A	620 - 820 mW (0.25 A)
	SST-10-DB	Sky Blue (470 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	470 - 590 mW (0.25 A)
	SST-10-G	Green (527 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	190 - 250 mW (0.25 A)
	SST-10-R	Red (621 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	220 - 290 mW (0.25 A)
	SST-10-DR	Deep Red (640 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	270 - 420 mW (0.25 A)
	SST-20-DR	Deep Red (640 nm)	SMT 3.45 mm x 3.45 mm	2.0 A	790 - 990 mW (0.70 A)
	SST-20-DR Gen 2	Deep Red (640 nm)	SMT 3.45 mm x 3.45 mm	2.0 A	870 - 1070 mW (0.70 A)
	SST-10-FR	Far Red (730 nm)	SMT 3.45 mm x 3.45 mm	1.5 A	270 - 390 mW (0.25 A)
	SST-20-WHG	5000 - 6500 K White, Standard CRI	SMT 3.45 mm x 3.45 mm	3 A	900 - 1100 lm (3 A)
	SST-20-WH4	2700 - 4000 K White, 95 CRI	SMT 3.45 mm x 3.45 mm	2 A	155 - 320 lm (700 mA)

COB SERIES SELECTOR GUIDE

Product Image	Product	Color	Package	Max Drive Current	Optical Output
	CXM-14	Purple	COB package 19 mm x 19 mm (AC) 14.3 mm LES	1,440 mA	40 – 72 (µmol/s)
	CXM-14	Piast White	COB package 19 mm x 19 mm (AC) 14.3 mm LES	1,440 mA	40 – 72 (µmol/s)
	CLM-22	Purple	COB package 28 mm x 28 mm (AC) 22 mm LES	2,200 mA	60 – 115 (µmol/s)
	CLM-22	Piast White	COB package 28 mm x 28 mm (AC) 22 mm LES	2,200 mA	60 – 115 (µmol/s)
	CXM-22	Purple	COB package 28 mm x 28 mm (AC) 22 mm LES	2,200 mA	90 – 165 (µmol/s)
	CXM-22	Piast White	COB package 28 mm x 28 mm (AC) 22 mm LES	2,200 mA	90 – 165 (µmol/s)
	CXM-22	Piast White	COB package 28 mm x 28 mm (AC) 22 mm LES	4,400 mA	200 – 360 (µmol/s)

MIDPOWER SERIES SELECTOR GUIDE

Product Image	Package Platform	Voltage (V)	Current (mA)	Input Power (W)	TYP FLUX (lm), 3000K, 80CRI	TYP lm/W, 3000K, 80CRI
	NEW MP-2020-1104	2.8	65	0.182	33	181
	NEW MP-2020-1224	2.67	65	0.173	33.5	193
	NEW MP-2020-2104	6.0	150	0.9	140	156
	MP-5050-8100	24	200	4.8	630	131
	NEW CUBE-1616-1103	3.0	180	0.45	62	138
	NEW CUBE-1616-2103	6.0	150	1.0	118	131