2025

Specialty Lighting Catalog

LUMINUS

Improving Life with Photons™

Luminus Company Introduction

Improving Life with Photons

Luminus Devices develops and markets solid-state lighting solutions (SSL) to help its customers migrate from conventional lamp technologies to long-life and energy-efficient LED illumination. Originally founded in 2002 to commercialize technology developed at the Massachusetts Institute of Technology (MIT), Luminus has evolved into a global leader by combining MIT innovation with cutting-edge developments from Silicon Valley. Luminus creates LEDs that enable customers to improve lives across disciplines and in homes and businesses. The company expanded its portfolio in 2024 with cutting-edge green and blue TO56 laser diodes for advanced display, biometric, and sensing applications. In 2025, Luminus became the worldwide sales channel for APC Electronics, a leader in silicon carbide technologies, further expanding market reach and technological capabilities. Luminus products are used in various types of medical equipment, UV solutions for disinfection, high color rendering white for healthy illumination, full spectrum horticulture, infrared for security, projection for education and entertainment, and countless other applications.

- Headquartered in: Silicon Valley (Sunnyvale, CA, USA)
- Branches in: Xiamen (China), Shenzhen (China), Hsinchu (Taiwan), Penang (Malaysia) Eindhoven (The Netherlands)
- Leadership in very high-power LEDs with exceptional light beam quality
- A broad range of white and monochromatic solutions for general illumination and specialty lighting markets
- Global applications support
- Comprehensive portfolio spanning from ultraviolet to infrared with applications across medical, architectural, entertainment, industrial, and consumer markets

Why Luminus?

- Industry-leading LEDs from Ultraviolet to Infrared with input powers from 1W to over 200W
- High-intensity light sources (up to 7.5A/mm²) replacing traditional lamp technologies such as xenon and metal halides
- Superior optical performance with best-in-class directionality and artifact-free light output
- Advanced spectrum control for human health, plant growth, and specialized applications
- Custom spectral solutions available for unique requirements

Healthcare & Life Sciences

- UV-A, UV-B, and UV-C solutions for medical disinfection and sterilization
- High CRI white light (98+) for accurate diagnostics and surgical illumination
- Specialized wavelengths for photobiomodulation and therapeutic applications
- Precision optics for life science instruments and medical imaging equipment
- Monochromatic emitters for biomedical analysis and detection

Industrial & Environmental Solutions

- UV curing solutions for 3D printing, adhesives, and coatings
- Machine vision illumination for quality control and automation
- Infrared emitters for sensing, security, and night vision applications
- High-efficiency illumination for indoor and outdoor spaces
- Water and air purification through targeted UV wavelengths

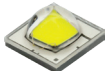
Projection & Visual Experience

- Projection technologies for consumer, business, and industrial applications
- Stage, entertainment, and studio lighting with exceptional color quality
- Dynamic COBs with advanced color tuning for human-centric lighting
- Automotive display and communication systems
- Laser diodes (Green 520nm/80mW, Blue 455nm/100mW, Red 38nm/150mW)

Horticulture

- Tailored spectral solutions for optimized plant growth and development
- High-efficiency horticulture lighting with specific photosynthetic wavelengths
- Energy-efficient options for commercial and urban farming

SPECIALTY LIGHTING AT GLANCE

Product Line	Sample Applications	
UV-A LEDs	UV Curing	
	3D Printing & Industrial	
	Medical & Life Sciences	
UV-B LEDs	Life Sciences, Medical and Horticulture	
UV-C	Disinfection & Sterilization	
Infrared LEDs	Vision & Sensing	
High Power White SMD	Portable & Bicycle Lights	
	Automotive Auxiliary Lights	
	LED Work Lights	
	Indoor Directional Lighting	
	Outdoor & Roadway Lighting	
	Industrial Lighting	
Color Surface Mount Series	Horticulture Lighting	
	Industrial Equipment	
	Life Sciences and Phototherapy	
	Architectural & Stage	
Specialty White & Color High Intensity COB Series	Medical & Life Sciences	
	Stage Lighting	
	Machine Vision & Industrial	
Projection LEDs	Home Entertainment Pico Projectors (<2,000 lm)	
	Business / Home Theater Projectors (>2,000 lm)	
	Industrial Projection	
	Automotive Projection	
Lasers	Laser Projection Display, Lighting, Illumination, Biometrics	

* For your actual applications, please feel free to contact us for the most suitable recommendations.

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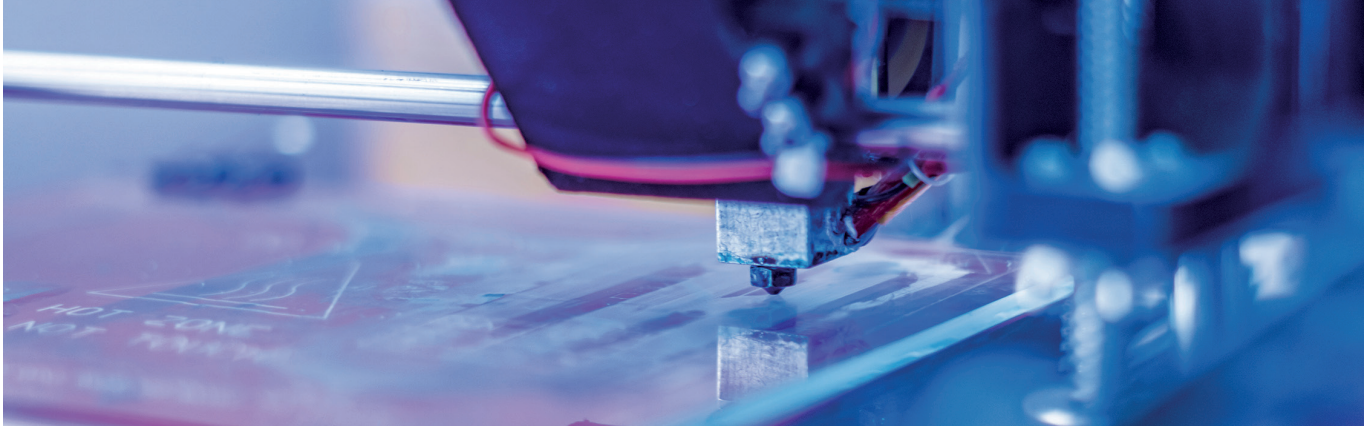
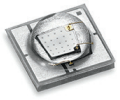
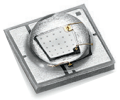


UV-A PRODUCTS

Image	Product	Wavelength	Package (mm)		Viewing Angle	Current (Typ.~Max. A)	Flux (Typ.~Max. W)
	SST-08	365nm	SMT	3.45*3.45	40°-130°	0.5~1.0	0.8~1.6
		385/395nm					0.9~2.0
		405nm					0.9~2.0
	SST-10	365nm		3.45*3.45	130°	0.5~1.0	0.9~2.0
		385nm				0.5~1.5	0.9~2.8
		395nm					1.0~2.8
		405nm					0.9~2.6
		415nm					0.9~2.6
	SBT-10X	365nm		3.5*3.5	120°	1~3	1.1~2.4
		385/395nm				1~4	1.6~4.8
		405nm					1.4~4.2
		20nm					1.4~4.5
	CBM-25X	385nm	MCPCB	26.5*16	Flat window	1~4	3.2~9.6
		405nm					3.2~9.6
	CBM-50X	365nm		26.5*16	Flat window	2~6	4.8~10.4
		385nm				2~8	6.0~18.0
		405nm					6.0~19.2
	CBT-90	405/415nm		28*26.75	Flat window	18~27	19.5~25.0
	CBM-160X	365nm		32*32	Flat window	3~9	13.2~35.0
		385nm				3~12	17.7~60.0
		405nm					18.9~60.5
	LCM-32X	365nm		49x26	130	8~20	96~229
		385/395nm				8~28	96~270
		405nm					
		420nm					
	LCM-64X	365nm		25x26	130	8~20	48~115
		385/395nm				8~28	48~135
		405nm					
		420nm					

COMING SOON: UV-A Modules

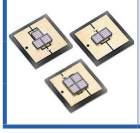
UV-A LEDs

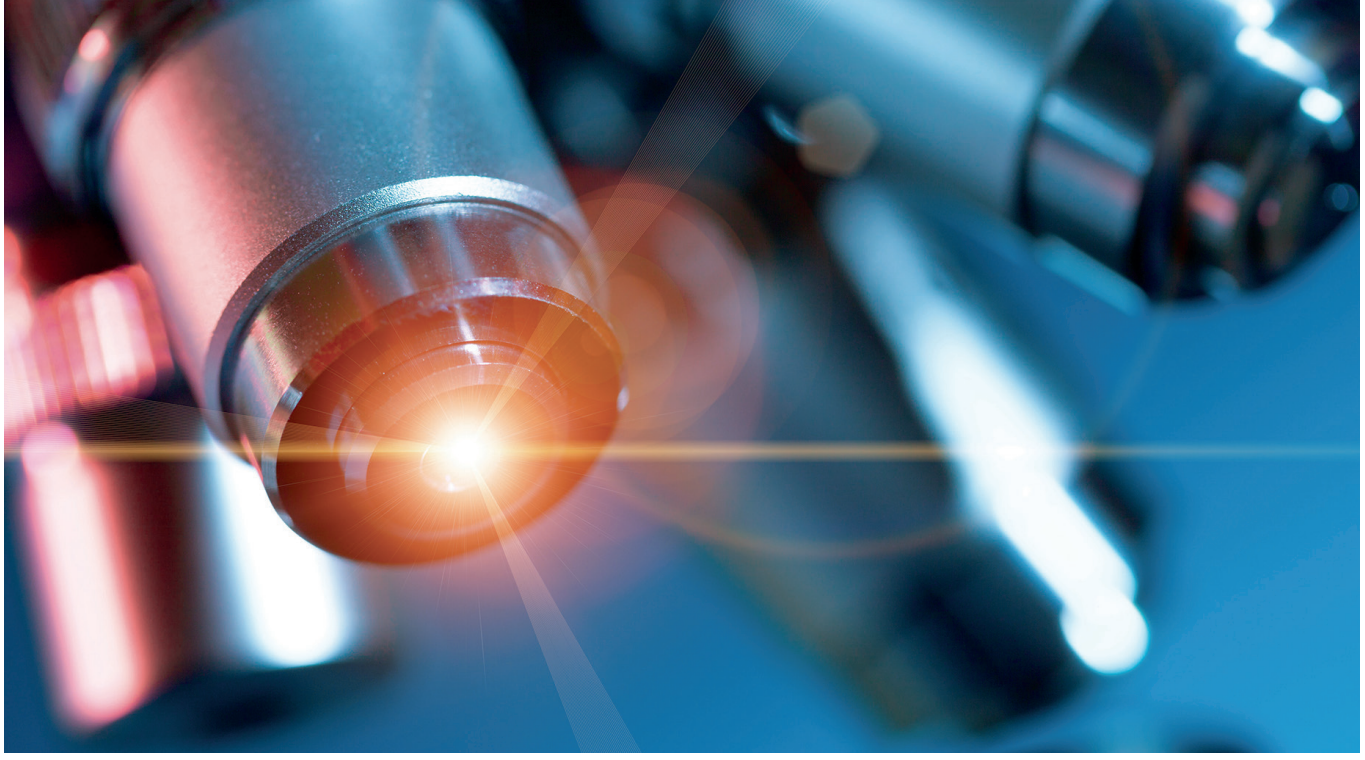
- Wide range of UVA wavelengths: 365 nm to 425 nm
- Vertical chip technology enables extremely high UV power from compact packages
- High conductivity copper core board and ceramic packages for thermal management
- Ideal solid state sources for 3D printing, fiber coupling and other etendue limited applications
- Integrated COB design for ease of system integration and optimum cooling
- Industry leading Watts/mm^2 from high current operation maximizes performance in curing and industrial applications
- Minimal product changes to support multi-year life-cycle of medical and Industrial equipment

UV-B and UV-C LEDs

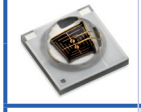
- Wavelength options designed for a broad range of applications:
  - 265 nm and 275 nm for disinfection and purification;
  - 285 nm for horticulture.
  - 310 nm and 340 nm for phototherapy, horticulture and life sciences
- Wavelength options designed for a broad range of applications: 265 nm and 275 nm for disinfection and purification; 285 nm for horticulture.
- Wide range of power outputs from 3 mW-500 mW
- Viewing angle ranges from 60˚ to 150˚
- Extensive range of power options to address a wide variety of applications- from surface disinfection to water and air purification applications
- High reliability, low thermal resistance packages enable drive currents up to 800 mA max
- Standard surface mount packages for easy integration

UV-C PRODUCTS

Image	Product	Wavelength	Package (mm)		Viewing Angle	Current (Typ.-Max. mA)	Flux (Typ.-Max. mW)
	XBT-3535-Mini	270~280nm	SMT	3.5x3.5	130°	150~225mA	14~36mW
	XBT-3535 Gen 2	260~290nm		3.5x3.5	130°	350~800mA	70~140mW
	XBT-3535	300~315 nm		3.5x3.5	130 deg	150~225 mA	TBA
	XBT-3535	340~350 nm		3.5x3.5	130 deg	500 mA	TBA
	XFM-5050-ES	270~280nm		5.0x5.0	150°	300~600mA	100~245mW
	XBT-3535-mini	308 nm		3.5x3.5	130°	150~225 mA	38~68 mW
	XFM-5050 Gen 2	270~280m		5.0x5.0	150°	500~800mA	120~300mW 150~420mW 225~500mW



INFRARED LEDs

Image	Product	Wavelength	Package (mm)		Viewing Angle	Current (Typ.~Max. A)	Flux (Typ.~Max. W)
	SST-05-IR	850nm	SMT	3.45*3.45	40°, 70°	0.35~1	0.3~0.9
	SST-10-FR	730 nm		3.45*3.45	90°, 130°	0.35~1.5	0.3~1.6
	SST-10-IR	850nm			90°, 130°		0.28~1.5
		940nm					0.22~1.5
	SST-10-IRD	810nm			90°, 130°		0.5~2.9
		850nm			50°, 90°, 130°		0.6~2.9
		940nm					0.6~2.9
	CBM-90-IRD	780nm	COB	28*26.75	Flat window	13.5~18	10~15.6
		850nm					11~23
		940nm					
	CBM-120-FR	730nm		28*26.75	Flat window	9~18	6.5~14.8

Infrared LEDs

- Wavelength options include 730 nm, 780nm, 810nm, 850nm and 940nm
- Available in single and stacked junctions, with industry leading wall-plug efficiency
- Viewing angle options from 40˚ to 130˚simplify optical design
- Best-in-class SMD products with solder pad compatibility to industry standard high power LEDs
- Short-pulse operation up to 5A

High Power White SMD

- Product line ranging from 1W to over 100W
- Monolithic emitters for best directionality and artifact-free far field
- SST series delivers superior directionality and throw distance
- SFT series is ideal for maximum throw distance or applications requiring optical coupling
- SBT series features a large, monolithic chip with uniform emitting area of 9mm^2 and an extremely high optical output with up to 5,400 lumens at 18A from a single chip

Applications:

- Premium Portable Lighting
- Indoor Directional Lighting
- Stage and Studio Lighting
- Outdoor Directional Lighting
- Automotive Aftermarket
- LED Work Lights
- Machine Vision

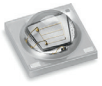
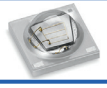
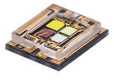
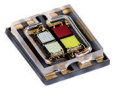
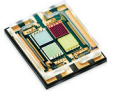
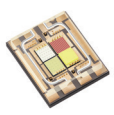
HIGH POWER WHITE SMD LEDs

Image	Product	CCT	CRI	Package (mm)		Viewing Angle	DC Current (Typ. - Max.)	Luminus Flux (Min. - Max.)
	SFT-12R-W-A	5000K - 6500K 2700K - 5700K	70 70, 80, 90	SMT	3.45 x 3.45 x 0.91	120°	1.5 - 3 A	520 - 610 lm @ 1.5 A Contact Luminus
	SFT-12R-W-F	5000K - 6500K	70		5.00 x 5.00 x 1.03	120°	1.5 - 3 A	520 - 610 lm @ 1.5 A
	SFT-25R-W-A	5000K - 6500K 2700K - 5700K	70 70, 80, 90		3.45 x 3.45 x 0.91	120°	1.5 - 7.5 A 1.5 - 5.0 A	610 - 680 lm @ 1.5 A Contact Luminus
	SFT-25R-W-F	5000K - 6500K	70		5.00 x 5.00 x 1.03	120°	1.5 - 7.5 A	610 - 680 lm @ 1.5 A
	SFT-40-W	5000K - 6500K 2700K - 5700K	70 80, 90		5.00 x 5.00 x 1.03	120°	1.5 - 8 A 1.5 - 4 A	610 - 680 lm @ 1.5 A 395 - 610 lm @ 1.5 A
	SFT-70X-W	4000K - 6500K 2700K - 5700K	70 90		5.00 x 5.00 x 1.03	120°	0.75 - 3.5 A (12V) 0.75 - 2.0 A (12V)	1135 - 1375 lm @ 0.5 A 760 - 995 lm @ 0.75 A
	SBT-90-W Gen 2	5700K	Min. 65, Typ. 70		11.00 x 10.00 x 1.54	120°	9 - 18 A	3100 - 5400 lm @ 9 A
	SST-12-W	5000K - 6500K 2700K - 4000K	70 95		3.45 x 3.45 x 2.00	120°	0.7 - 2.4 A 0.35 - 1.5 A	285 - 324 lm @ 0.7 A 93 - 130 lm @ 0.35 A
	SST-20-W	5000K - 6500K 2700K - 4000K	70 95		3.45 x 3.45 x 1.98	120°	1.5 - 3 A 0.35 - 2 A	610 - 720 lm @ 1.5 A 107 - 142 lm @ 0.35 A
	SST-20V-W	1800K - 6500K	70, 80, 90, 95		3.45 x 3.45 x 2.13	118°	0.7 - 3 A	202 - 395 lm @ 0.7 A
	SST-20F-W-AL	2700K - 6500K	70, 80, 90, 95		3.55 x 3.55 x 2.30	120°	0.7 - 1.5 A	192 - 395 lm @ 0.7 A
	SST-20F-W-AH	5000K - 6500K	70		3.55 x 3.55 x 2.30	120°	0.7 - 2.5 A	340 - 395 lm @ 0.7 A
	SST-25-W	5000K - 6500K	70		3.55 x 3.55 x 2.30	120°	1.5 - 3.75 A	640 - 760 lm @ 1.5 A
	SST-36F-W-AL	5000K - 6500K	70		3.55 x 3.55 x 2.30	120°	1.5 - 3 A	680 - 815 lm @ 1.5 A
	SST-40-WS	5000K - 6500K	70		5.00 x 5.00 x 3.01	120°	1.5 - 6 A	640 - 760 lm @ 1.5 A
	SST-70X-WS	6500K	70		5.00 x 5.00 x 3.01	135°	1.5 - 5.25 A (6V) 0.75 - 2.625 A (12V)	1200 - 1370 lm @ 1.5 A

Color Surface Mount Series

- Low thermal resistance
- High current density (up to 3A/mm^2)
- Surface Mount Device package form factor enables flexibility to size conscious designs
- SST series blue and deep red ideal for horticulture applications
- SFT- 10 / SFT-20 series RGB ideal for projection display applications
- SBM-40 series features four high intensity die closely packaged for easier optical color-mixing

COLOR SMDs

Image	Product	Color		Package (mm)		Viewing Angle	Current (Typ.~Max. A)	Flux* (Typ.~Max.)
	SST-10	B	450nm	3535 SMT	3.45*3.45	90°,130°	0.35~1.5	630~2160mW
		SB	470nm					41~147
		G	527nm					148~421
		R	621nm					71~284
		DR	660nm					450~1800mW
		FR	730nm					310~1240mW
	SST-20	B	450nm		3.45*3.45	120°	0.35~3	750~4100mW
		DR	660nm				0.7~2	1030~2600mW
	SFT-10	B	455nm	3535 EMC	3.50*3.50	Windowless	0.7~4	34~119
		CG	555nm					305~1140
		RA	613nm				0.7~3	120~348
	SFT-14	B	455nm		3.50*3.50	Windowless	0.98~5.6	45~166
		CG	555nm					490~1720
		RA	613nm				0.98~4.2	158~513
	SFT-20	B	455nm		3.50*3.50	Windowless	1.4~8	80~265
		CG	555nm				1.4~6	520~1820
		RA	613nm					240~615
	SBT-90	R	620nm	SMT	11.0*10.0	Flat window	9~13.5	945~1350
	SBM-40 LC	R	622nm		5.75*4.68	Flat window	0.7~1	45~133
		G	527nm					112~281
		B	455nm					630~1260mW
		W	6500K					140~295
	SBM-40 SC	R	623nm			Flat window	1~2	90~253
		G	525nm					210~404
		B	454nm					1~2.3W
		W	6500K					210~543lm
	SBM-40 HC	R	623nm			Flat window	1~3	125~275
		G	525nm					280~500
		B	454nm					1.4~3.15W
		W	6500K					365~800
	SBM-40-HC	R	623nm			Flat window	1~3	125~275
		G	525nm					280~500
		B	454nm					1.4~3.15W
		L	4000K, 6500K					440~990

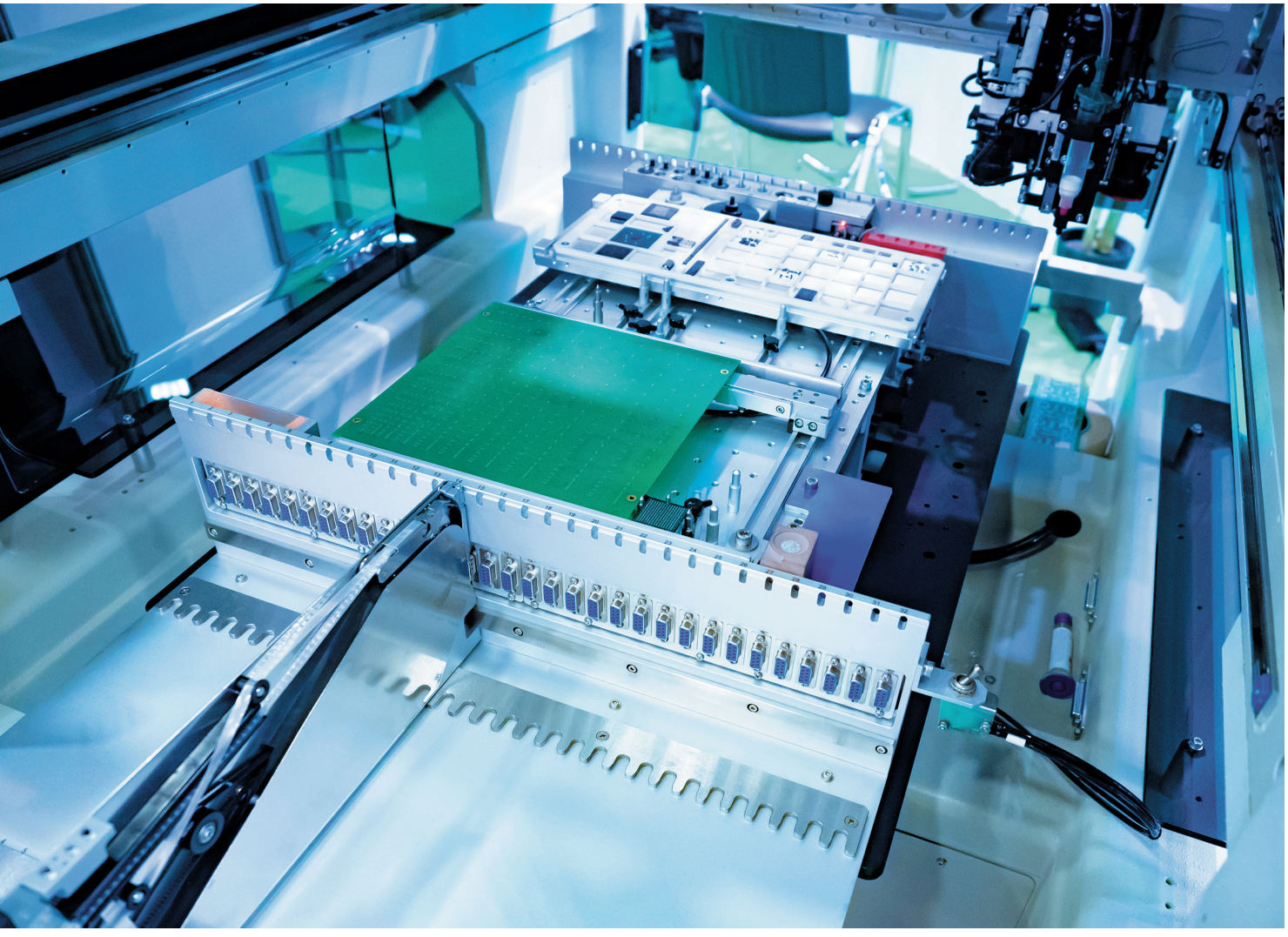
* In lumens unless stated otherwise

Specialty Color and White COBs

- Monolithic emitters for best directionality and artifact free far field
- Designed for optimal coupling into a light engines or optical fiber bundles
- Large operating current density from <<1A/mm^2 to 3-4A/mm^2 in continuous mode
- Extremely good reliability under CW and pulse conditions
- Low thermal resistance chip-on-board packaging technology
- Available in different emission area and wavelengths covering the whole visible range
- White spectrums available at multiple color points with low and high CRI options
- Long product life cycles, aligned with end systems life cycles in medical and industrial market

Applications:

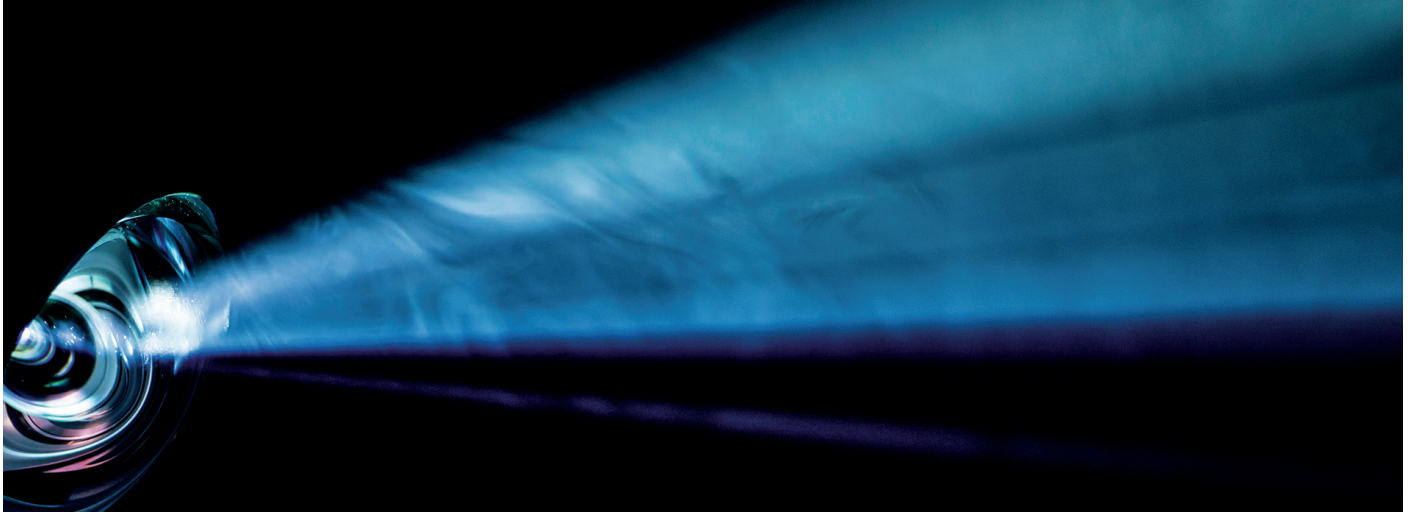
- Life Sciences and Medical
- Entertainment and Stage Lighting
- Industrial and Machine Vision
- High-Power Xenon, Halogen and Metal-Halide Replacement Solutions



SPECIALTY WHITE AND COLOR COBs

Image	Product	CCT	CRI/Wav	Package (mm)		Optical Interface	Current (Typ.~Max. A)	Flux* (Typ.~Max.)
	CBM-40-SB	Sky Blue	470 nm	COB	26.5 x 16	Flat Window	6	5.5~6.5W
	CFT-50X	6500K, WCS	65		26.5*18	Windowless	12.5~15	3500~3800W
		6000K, WDH	92					2000~2200W
		UV	410nm					18~20W
		BP	440nm					16~18W
		B	460nm					13~14W
		CG-D	525nm					10.5~12W
		CG-M	560nm					10~11W
		CA	600nm					6~7W
		R	636nm					7~8W
	CBT-90	5700/6500K	70		28*26.75	Flat window	18	2200~2500
	CFT-90	5700/6500/7800K	65			Windowless	22.5~27	5500~6000
		5700K, WDH	92					3000~3400
	CBT-140	6500K, WCS	70			Flat window	21~28	4200~5000
		5700K, WDH	92					3400~4000
	PT-39 L51	DR	650nm		21.85*15	Flat window	7.5~10	3.6~4.5W
		G	520nm					2.9~3.6W
	CBT-90	B	460nm		28*26.75	Flat window	13.5~27	500~750
		G	527nm					2100~3360
		RX	620nm					1030~1130
	CFT-90	CG	576nm		28*26.75	Windowless	22.5~27	12.5~14W
	CBM-120	FR	730nm		28*26.75	Flat window	9~18	6.5~10.7W
	PT-121	B	460nm		28*26.75	Flat window	18~30	620~860
		G	525nm					3640~5200
		RAX	613nm					1485~2650

* In lumens unless stated otherwise



PROJECTION

Image	Product	Color		Package (mm)		Optical Interface	Current (Typ.~Max. A)	Flux* (Typ.~Max.)	Compatible DMD** size
	SFM-03X	B	457nm	3030 EMC	3.0*3.0	Windowless	0.25~2.0	0.38~1.70W	0.16" or below
		RA	612nm				0.25~1.4	38~130	
		CG	555nm				0.25~2.0	0.38~570	
	SFT-03X	B	457nm		3.0*3.0	Windowless	0.25~2.0	0.38~1.70W	
		RA	612nm				0.25~1.4	38~130	
		CG	555nm				0.25~2.0	128~570	
	SFM-06X	B	455nm		3.0*3.0	Windowless	0.5~1.5	0.70~1.60W	0.23", 0.30"
		RA	613nm					78~141	
	SFT-10	B	455nm	3535 EMC	3.50*3.50	Windowless	0.7~5.0	0.95~3.7W	
		CG	555nm					305~1200	
		RA	613nm				0.7~4.0	120~360	
	SFT-14	B	459nm		3.50*3.50	Windowless	0.98~8.4	1.3~5.9W	
		CG	613nm					490~2500	
		RA	555nm				0.98~5.6	150~590	
	SFT-20 (5A/mm²)	B	455nm		3.50*3.50	Windowless	1.4~10.0	2.2~9.2W	0.30", 0.33"
		CG	555nm					620~2400	
		RA	613nm				1.4~8.0	240~750	
	SFT-20X (6A/mm²)	B	455nm			Windowless	Coming Soon Contact Luminus		0.33", 0.39
		CG	555nm						
		RA	613nm						
	PT-26 (6A/mm²)	B	455nm	COB	21.0*15.5	Windowless	10.4~15.6	8.2~11.0W	0.33", 0.39
		CG	555nm					3100~3800	
		RA	613nm				10.4~10.4	1000~1200	
	PTM-40X	B	455nm		27.0*15.5	Windowless	8.0~12.0	13.0~16.2W	0.45", 0.47"
		CG	555nm					5600~6800	
		RA	613nm				8	1790	
	PTM-50X	B	457nm		27.0*15.5	Windowless	10.0~16.0	21.03~27.50	0.45", 0.65
		CG	555nm					7000~9100	
		RA	613nm				10.0~11.0	2100~2500	
	PT-121	B	460nm		28*26.75	Flat window	30.0~36.0	1000~1050W	0.70", 0.80", 0.90"
		G	525nm					5200~5500	
		RAX	613nm					2650~2860	

* In lumens unless stated otherwise
** Digital Micro Display

Projection LEDs

- High current density Red/Green/Blue for maximal projector output up to CG & B 6.5A/mm^2 RA 4.5A/mm^2
- Solutions optimized for micro-displays ranging from 0.16” to 0.95”, including optimized chipsets matched to TI DLP™ 0.16”, 0.2x”, 0.3x” and 0.4x” DMDs maximizing performance as well as system level efficiency
- Combined high performance and high reliability
- Ideal for projection and micro display, heads up display, Augmented/Mixed Reality (AR/MR), industrial applications and home theater

Automotive LEDs

The automotive industry is undergoing a profound transformation driven by the surge in trends towards vehicle electrification (EVs), shared mobility, advanced driver assistance systems, and autonomous driving technologies, reshaping the future of transportation.

Integral to this evolution, lighting assumes a pivotal role in engaging motorists and other road users, driving the adoption of cutting-edge lighting technologies aimed at augmenting road safety and driving comfort.

Dynamic light projection systems, for instance, empower dynamic high-definition visualization of road and vehicle status information, coupled with personalized styling elements.

Luminus projection LEDs are tailor made for the following automotive applications

- Augmented Reality and Holographic Head-Up Displays
- Interior Dynamic Lighting
- Dynamic ground projection facilitating vehicle-to-X communication or displaying dynamic content around the vehicle
- Personalization and styling through side or rear window interactive displays
- High-definition Adaptive Driving Beam headlights with symbol projection

With over two decades of expertise in LED projection systems, Luminus is committed to developing automotive-qualified LED chipsets tailored to meet the unique and demanding requirements of light projection applications in the automotive sector.

Product Highlights

- Scalable LED chipset offerings designed to precisely match the etendue of the following Texas Instruments automotive DLP™ devices:

LED Chipset Platform	TI Automotive DLP	DLP™ Class	DMD Pixel Resolution
SFx-06XA	DLP202x-Q1	0.20”	588 x 330
SFx-25XA	DLP302x-Q1	0.30”	864 x 480
SFx-25XA	DLP462x-Q1	0.46”	960 x 480
SFx-42XA	DLP55xx-Q1	0.55”	1152 x 576

- Matched red, green, blue, and white chipsets for monochromatic and full-color RGB dynamic display applications.
- One, two, three, and four-channel LED chipset options for a maximum of design flexibility.
- Large dynamic drive current ranges enabled by industry-leading maximum pulse current capabilities.
- AEC-Q102 for automotive-grade reliability certification in process.

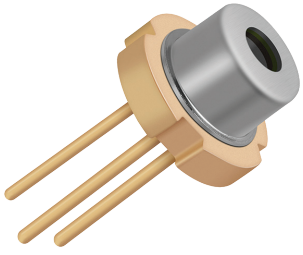
LASERS

Luminus specializes in high-performance edge-emitting lasers (EEL) available in a variety of wavelengths, including blue (typical 455nm), green (typical 520nm), and red (typical 640nm). Designed to meet diverse product requirements and applications, the laser chips are housed in TO-can packages—recognized globally as the standard for laser diode packaging. With a range of package designs, sizes, and materials, Luminus ensures solutions tailored to meet specific industry needs.

Harnessing expertise in both chip development and packaging, Luminus leverages its extensive knowledge and manufacturing capabilities across LED and laser technologies. This synergy enables innovative and reliable laser products that excel in performance and adaptability.

Luminus laser portfolio are made for following illumination and lighting applications:

- Industrial Illumination leveling and marking
- Portable scanners
- Material Processing
- Stage Lighting



Product	Package	Mode	Typ. Peak wavelength(nm)	Typ. Optical Power (mW)	Typ. Operating current (mA)	Typ. Vf (v)	Typ. Beam divergence	Typ. Beam divergence	Typ. Threshold current (mA)	With Photo Diode
LST-003-515-T560	TO56	Single Mode	515	30	90	5.5	7.0	21	30	No
LST-003-515-T56A	TO56	Single Mode	515	30	90	5.5	7.0	21	30	Yes
LST-005-520-T56A	TO56	Single Mode	520	50	120	5.8	7.0	21	40	Yes
LST-008-520-T56A	TO56	Single Mode	520	80	160	6.0	7.0	21	40	Yes
LST-010-455-T560	TO56	Single Mode	455	100	85	5.0	6.0	22	22	No
LMT-200-450-T56B	TO56	Multi Mode	450	2000	1600	4.5	12	50	300	No
LMT-120-640-T560	TO56	Multi Mode	640	1200	1400	2.5	10	40	350	No

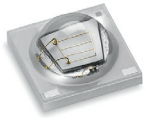
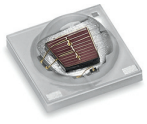
Horticulture LEDs

- Selection of SMD, midpower and COB series
- High PPF efficacy across a plant's life cycle
- Mid Power LEDs used for optimal PPF/W and low PPF/$
- High Power LEDs used to boost spectrum at 660nm and 730nm
- COB LED horticulture product line used for compact fixtures

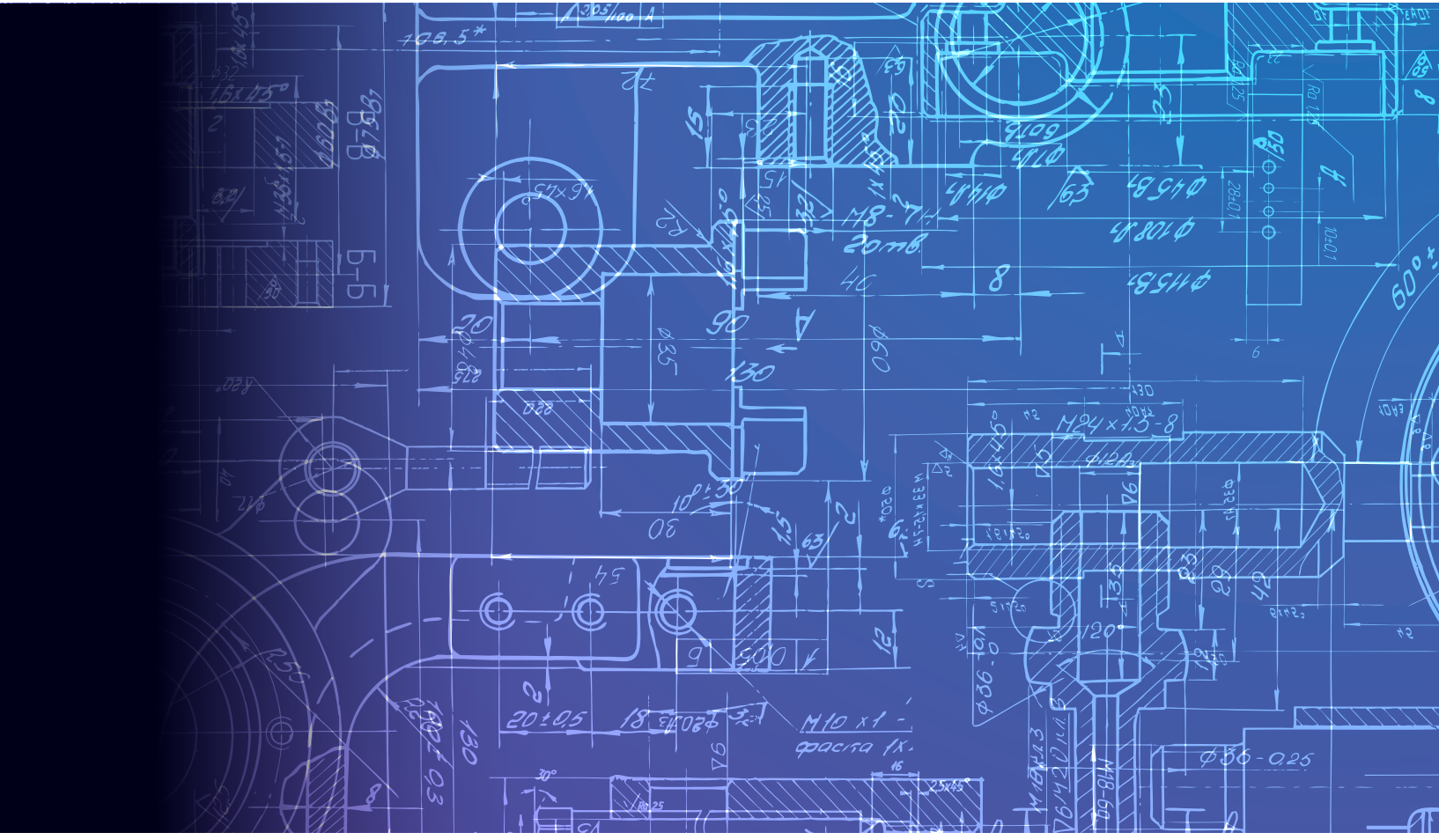
Luminus' horticulture LEDs offer industry leading performance in terms of PPF (Photosynthetic Photon Flux) and PPF/W metrics and come in a variety of package types ranging from mid-power to high power LEDs.

Visit **https://calculator.luminus.com/horticulture** to select the optimized solution for your application.

HORTICULTURE LEDs

	Image	Product	Wavelength/CCT	Viewing Angle	Test Current (mA)	Max. Current (A)	Forward Voltage (V)
3535 SMD		SST-10-B	450nm	90/130	350	1.5	2.90
		SST-20-B	450nm	120	350	3	2.80
		SST-10-DR	660nm	90/130	350	1.5	2.10
		SST-20-DR	660nm	120	700	2	2.10
		SST-10-FR	730nm	90/130	350	1.5	1.90
		MP-3030-120H	30-80		65	400	2.68
			40-80				
			50-80				
			57-80				

Typ. lm	Typ. mW	WPE/LPW	PPF(µmol/s) 360-830nm	PPF/W(µmol/J) 360-830nm	PPF(µmol/s) 400-700nm	PPF/W(µmol/J) 400-700nm
21	630	62%	2.38	2.34	2.37	2.33
23	710	72%	2.68	2.73	2.67	2.72
	525	72%	2.88	3.92	2.87	3.90
	1050	72%	5.76	3.92	5.74	3.90
	420	44%	2.53	3.80	0.19	0.29
37.5	119	215lm/W	0.58	3.35	0.57	3.24
39.5	123	227lm/W	0.58	3.34	0.56	3.2
39.5	126	227lm/W	0.58	3.35	0.57	3.24
39.5	125	227lm/W	0.58	3.35	0.56	3.23

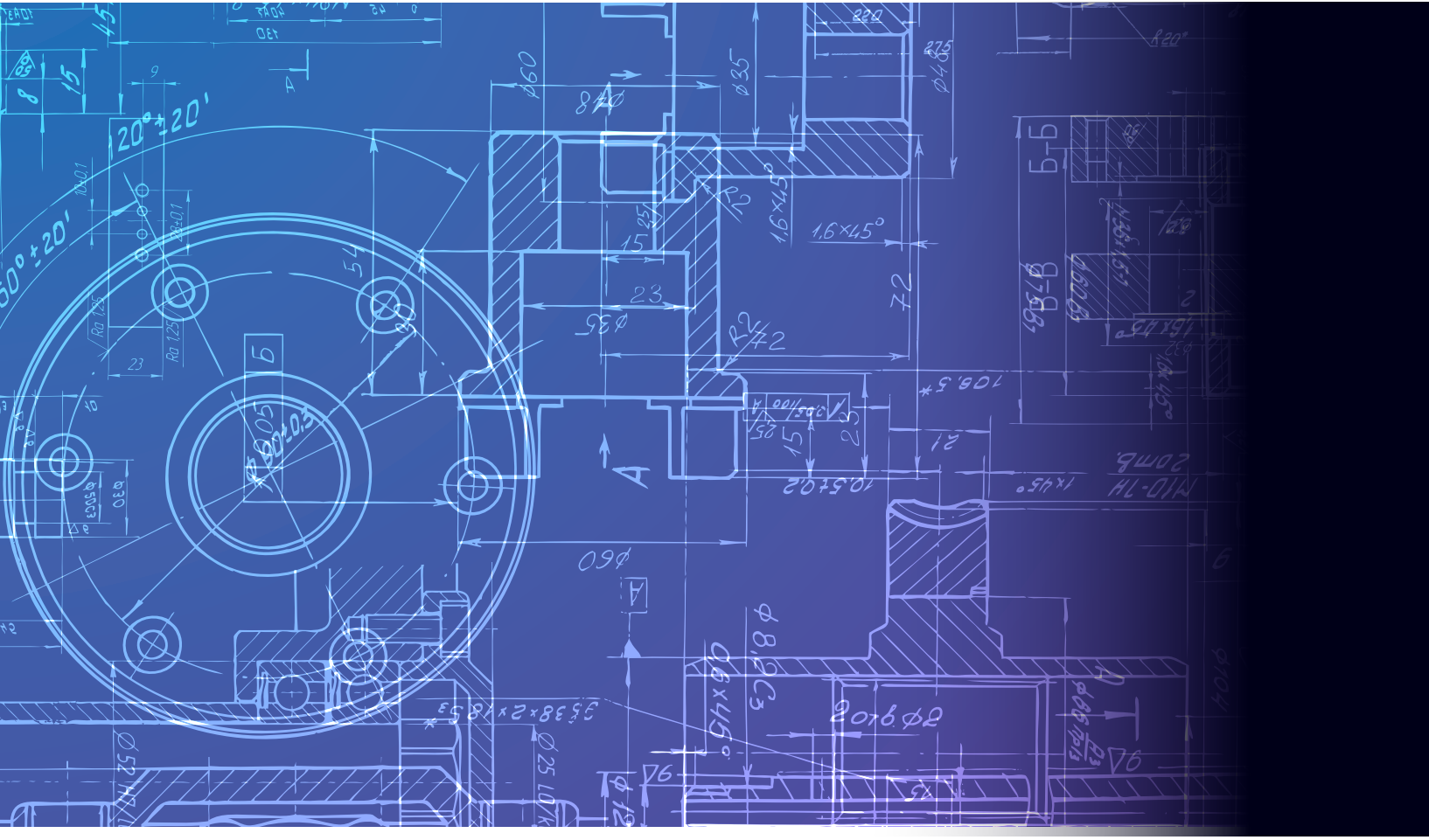


Global Application Engineering Support for Luminus Products

Luminus Devices provides comprehensive application engineering support for its portfolio of high-performance LEDs, lasers, and SiC power components, facilitating efficient design integration for customers worldwide.

Access a range of technical resources and tools at www.luminus.com:

- Systems Engineering Consultation: Request design-in assistance from our team of experts through the Help Center.
- Online Knowledge Base: Utilize our robust online repository for troubleshooting and best practic guidance.
- System Performance Online Calculators: Simulate and compare system performance across various LED technologies and operating parameters.
- Design Resources: Access comprehensive design files and tools.
- Application Documentation: Explore in-depth application notes and white papers for a variety of use cases.
- Ecosystem Solutions Network: Leverage verified third-party solutions to enhance design-in activities and accelerate product development.
- Electronic Design Library (SnapMagic): Download 3D STEP files, symbols, and footprints in multiple EDA formats (Altium, Eagle, Pads, OrCAD, etc.) from **www.snapeda.com**.



Help Center

https://luminusdevices.zendesk.com/hc/en-us
e-mail: techsupport@luminus.com

Design Files

www.luminus.com/resource/design-files
Optical ray files, mechanical CAD files

Calculators

www.luminus.com/resource/calculator

Ecosystem

www.luminus.com/resource/ecosystem/landing-page
Optics, heat sinks, thermal interface materials, PCBs, drivers, holders, projection engines, PCB footprints, engineering services, testing & verification services

System engineering support

Consult with applications engineers on optical design, thermal design, electrical design, simulations, LM80 reports, TM30 reports

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LUMINUS

Improving Life with Photons™

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