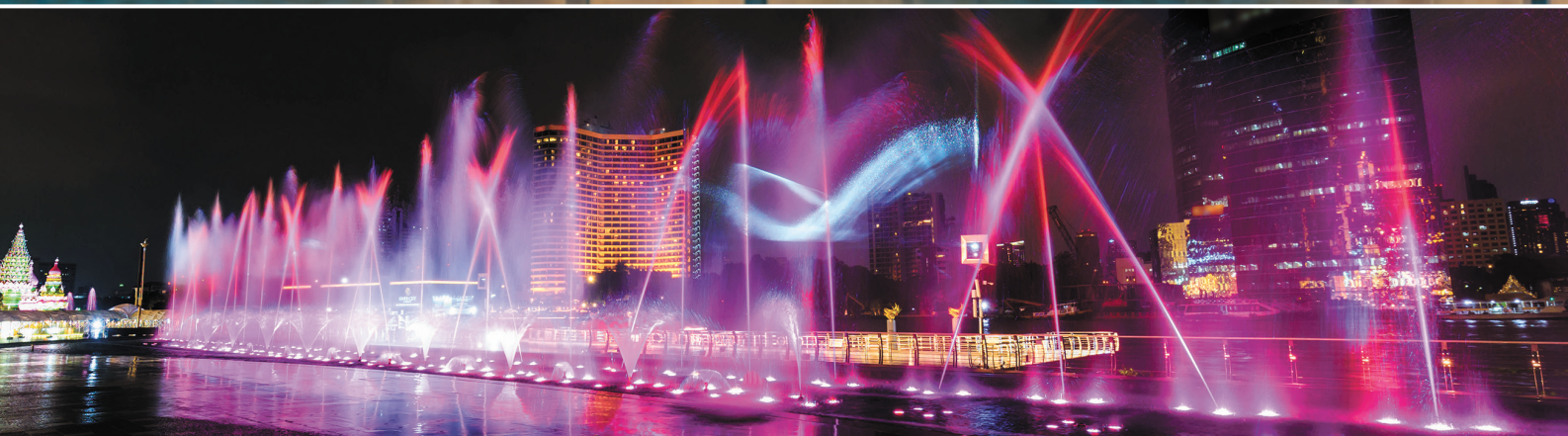
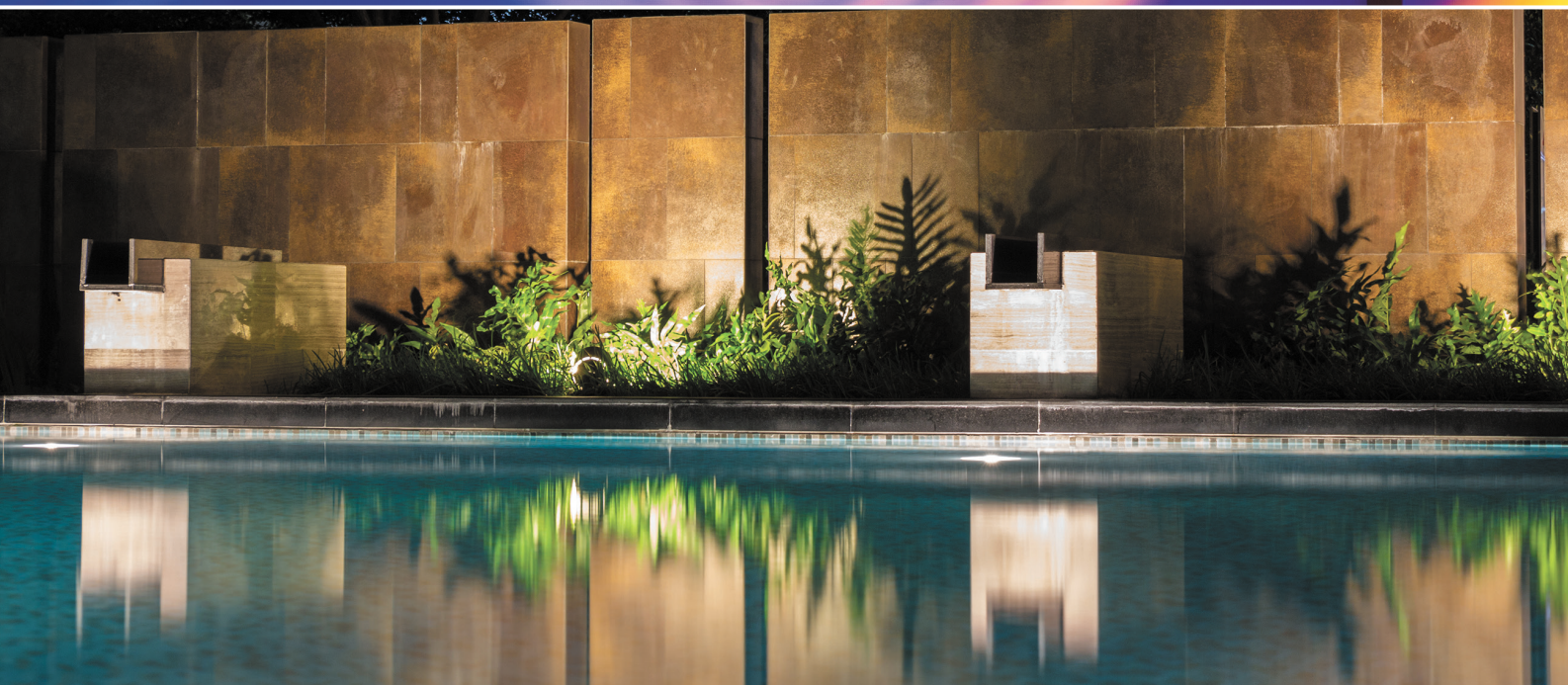


2024

Luminus
Specialty
Lighting
Catalog



Improving Life with Photons™



Luminus Company Introduction

Improving Life with Photons

Luminus creates LEDs which are enabling customers to improve lives across disciplines, and in homes and businesses. 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)

- Founded in 2002 to commercialize technology developed at M.I.T.
- Leadership in very high-power LEDs with exceptional light beam quality
- Broad range of white and monochromatic solutions for general illumination and specialty lighting markets
- Global applications support
- Laser portfolio added in 2024



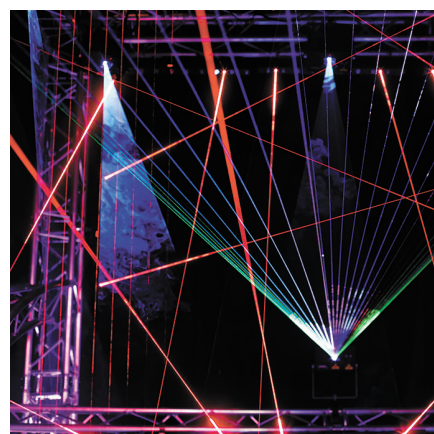
Specialty LEDs

- Solutions ranging from Ultraviolet to Infrared with input powers from 1 W to over 180 W
- High-intensity specialty LEDs (up to 6.5 A/mm²) replacing conventional lamp technologies Such as Xenon and Metal Halide
- Extensive offering for markets including:
 - UV-A and UV-C Purification and Disinfection
 - Medical and Life Sciences Instruments
 - Industry: UV Curing, Machine Vision, Obstruction
 - Vision & Sensing
 - Projection Technologies - Consumer, 3D Printing and Industrial
 - Stage, Entertainment and Studio Lighting
 - Portable and Vehicle Auxiliary Lighting
 - Indoor and Outdoor Directional Lighting
 - Horticulture Lighting



Illumination LEDs

- High quality of light and industry-leading efficacy engineered in Silicon Valley
- Widest range of COB sizes and CCT/CRI combinations
- Unique 1616 midpower LEDs with wide viewing angle and 95+ CRI
- Dynamic COBs for human centric lighting
- Unique and custom spectra available



Lasers

- Green TO56 Laser Diode
- Blue TO56 Laser Diode

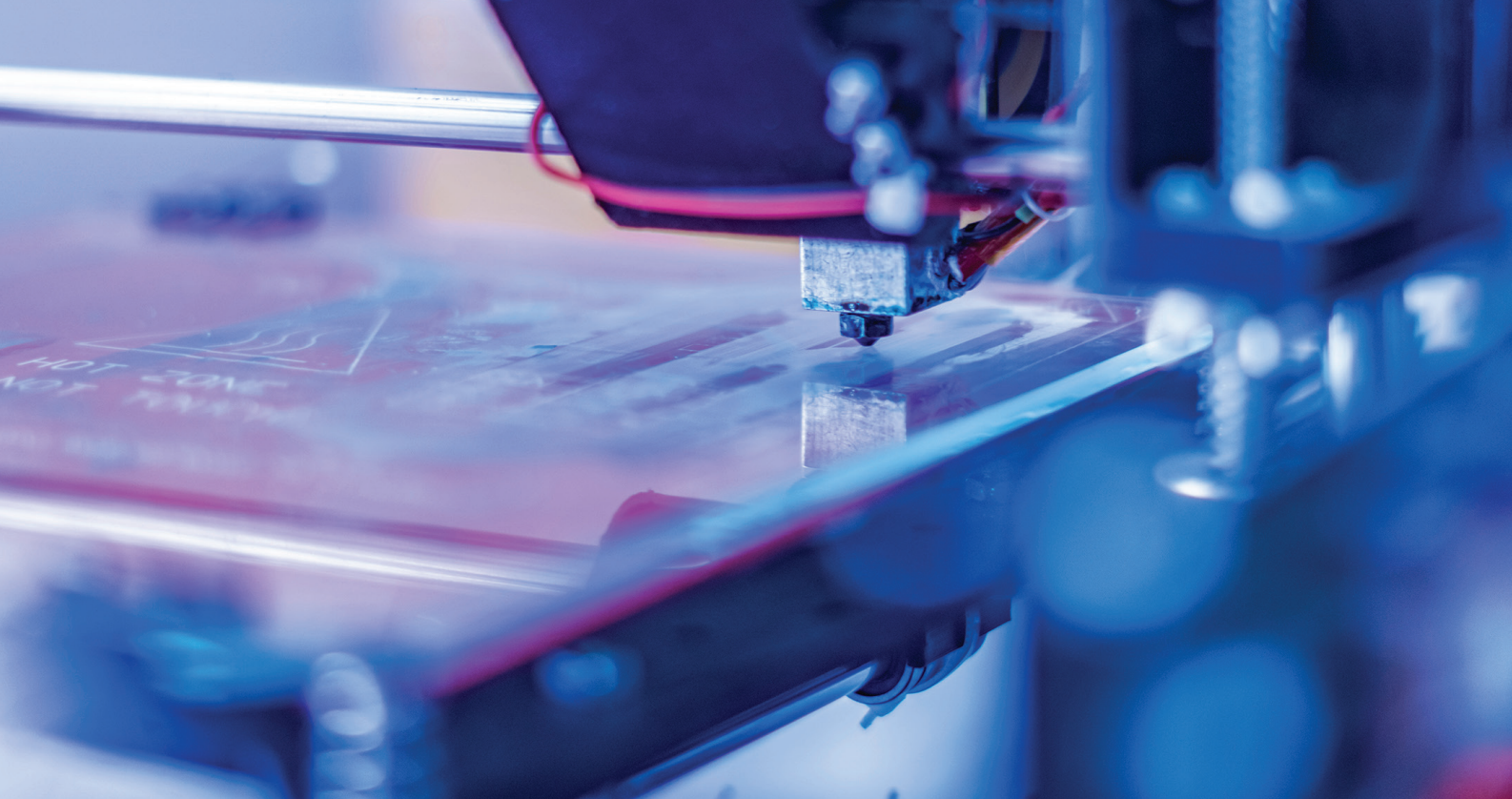
SPECIALTY LIGHTING AT GLANCE

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	
Lasers	Laser Projection Display, Lighting, Illumination, Biometrics	

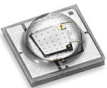
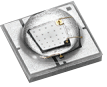
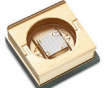



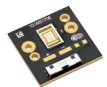
* For your actual applications, please feel free to contact us for the most suitable recommendations.

Contents

UV-A	6
UV-B	8
UV-C	8
Infrared	9
High Power White SMD	10
Color Surface Mount	12
Specialty White & Color High Intensity COB Series	14
Projection LEDs	16
Automotive LEDs	18
Lasers	19
Horticulture LEDs	20
Applications Engineering Support	22

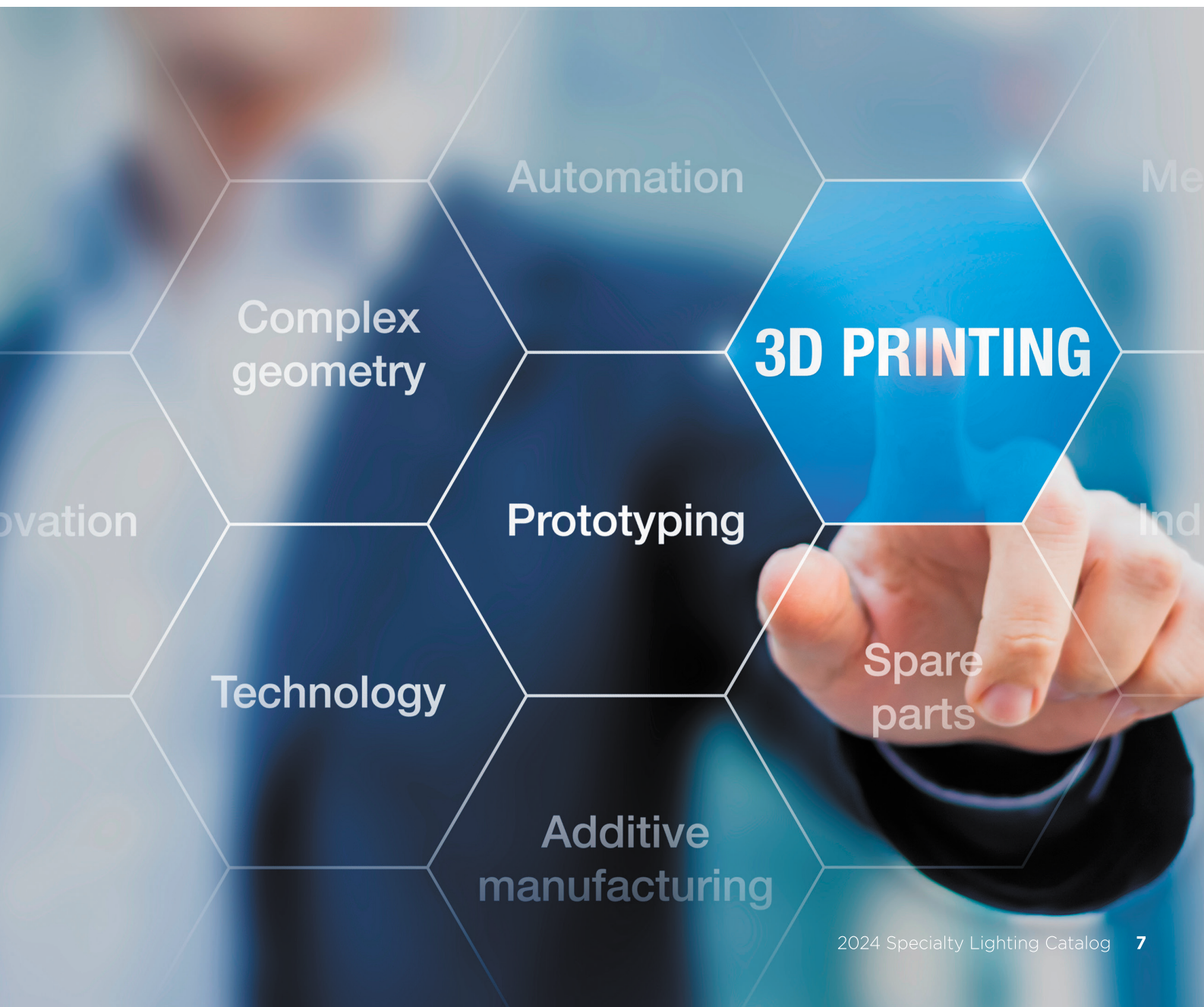


UV-A PRODUCTS

Image	Product	Wavelength	Package (mm)		Viewing Angle	Current (Typ.-Max. A)	Flux (Typ.-Max. W)
	SST-08-H	365nm		3.45×3.45	40° 130°	0.5-1.0	0.8-1.5
		385/395nm					0.9-1.6
		405nm					0.9-1.6
	SST-10	365nm	SMT	3.45×3.45	130°	0.5-1.0	0.9-1.5
		385nm					1.0-2.8
		395nm				1.0-2.8	
		405nm/415nm				0.9-2.6	
	SBT-10X	365nm		3.5×3.5	120°	1-3	1.1-2.4
		385/395nm					1.6-4.8
		405nm/420nm				1.4-4.2	
	CBM-25X	385nm		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					6.0-18.0
		405nm				5.9-17.7	
	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					17.7-60.0
		405nm				17.7-60.0	

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/mm² 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



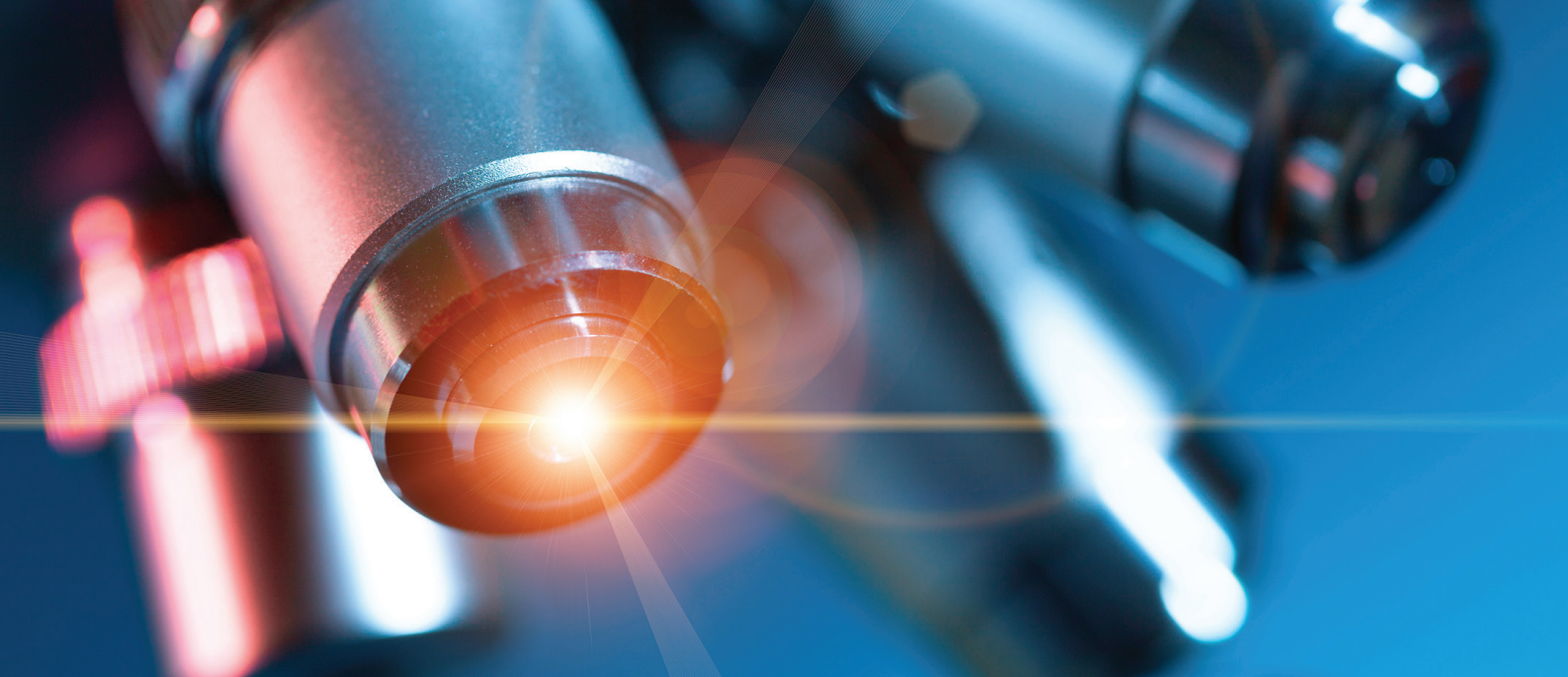
UV-B and UV-C LEDs

- 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


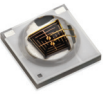





UV-C PRODUCTS

Image	Product	Wavelength	Package (mm)	Viewing Angle	Current (Typ.-Max. mA)	Flux (Typ.-Max. mW)
	XBT-1313	270-280nm	SMT	1.3x1.3	150°	40-100mA 5-12 mW
	XBT-3535-Mini	270-280nm		3.5x3.5	130°	150-225mA 14-36 mW
	XBT-3535 Gen 2	260-290nm		3.5x3.5	130°	350-800mA 70-140 mW
	XBT-3535	300-315nm		3.5x3.5	130 deg	150-225mA TBA
	XBT-3535	340-350nm		3.5x3.5	130 deg	500mA TBA
	XST-3535	270-280nm		3.5x3.5	60°	350-800mA 45-101 mW
	XFM-5050-ES	270-280nm		5.0x5.0	150°	300-600mA 100-245 mW
	XFM-5050 Gen 2	270-280nm		5.0x5.0	150°	500-800mA 120-300 mW 150-420 mW 225-500 mW



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	730nm		90°, 130°	0.3-1.6		
	SST-10-IR	850nm		3.45×3.45	90°, 130°	0.3-1.2	
		940nm				0.2-0.9	
	SST-10-IRD	810nm			90°, 130°	0.35-1.5	0.5-2.1
		850nm			50°, 90°, 130°		0.6-2.2
		940nm	0.5-2.1				
	CBM-90-IRD	780nm	COB		28×26.75	Flat window	13.5-18
		850nm		13-16.9			
		940nm					
	CBM-120-FR	730nm		28×26.75			

Infrared LEDs

- Wavelength options include 730 nm, 780 nm, 810 nm, 850 nm and 940 nm
- 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 5 A

High Power White SMD

- Product line ranging from 1 W to over 100 W
- 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 9 mm² and an extremely high optical output with up to 5,400 lumens at 18 A from a single chip

Applications:

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





HIGH POWER WHITE SMD LEDs

Image	Product	CCT	CRI	Package (mm)	Viewing Angle	DC Current (Typ. - Max.)	Luminous Flux (Min. - Max.)	
	SST-12-WS	5000K-6500K	Min. 65	SMT	3.45 × 3.45 × 2.00	120°	0.70 - 2.4 A	285 - 324 lm @ 0.70 A
	SST-12-WH	2700K-4000K	Min. 95		3.45 × 3.45 × 2.00	120°	0.35 - 1.5 A	100 - 130 lm @ 0.35 A
	SST-20-WS	5000K-6500K	Min. 65		3.45 × 3.45 × 1.98	120°	1.50 - 3.0 A	610 - 680 lm @ 1.50 A
	SST-20-WE	4000K-6500K	Min. 70		3.45 × 3.45 × 1.98	120°	0.70 - 3.0 A	325 - 340 lm @ 0.70 A
	SST-20-WF	3000K-6500K	Min. 80		3.45 × 3.45 × 1.98	120°	0.70 - 2.0 A	280 - 310 lm @ 0.70 A
	SST-20-WH	2700K-4000K	Min. 95		3.45 × 3.45 × 1.98	120°	0.35 - 2.0 A	107 - 139 lm @ 0.35 A
	SST-25-WS	6500K	Min. 65		3.55 × 3.55 × 2.3	120°	1.50 - 3.75 A	640 - 720 lm @ 1.50 A
	SST-25-WE	5000K, 5700K	Min. 70		3.55 × 3.55 × 2.3	120°	1.50 - 3.75 A	640 - 720 lm @ 1.50 A
	SST-40-WS	5000K-6500K	Min. 65		5.00 × 5.00 × 3.01	120°	1.50 - 6.0 A	594 - 713 lm @ 1.50 A
	SST-70X-WS	5700K, 6500K	Min. 65		5.00 × 5.00 × 3.01	135°	1.50 - 5.25 A (6V) 0.75 - 2.625 A (12V)	1200 - 1290 lm @ 0.75 A
	SFT-40-WS	6500K	Min. 65		5.00 × 5.00 × 1.03	120°	1.50 - 8.0 A	640 - 680 lm @ 1.50 A
	SFT-40-WE	5000K, 5700K	Min. 70		5.00 × 5.00 × 1.03	120°	1.50 - 8.0 A	640 - 680 lm @ 1.50 A
	SFT-40-WH	2700K-3000K	Min. 95		5.00 × 5.00 × 1.03	120°	1.50 - 4.0 A	355 - 395 lm @ 1.50 A
	SFT-70X-WS	6500K	Min. 65		5.00 × 5.00 × 1.03	120°	1.50 - 7.0 A (6V) 0.75 - 3.5 A (12V)	1120 - 1290 lm @ .75 A
	SFT-70X-WE	5000K, 5700K	Min. 70		5.00 × 5.00 × 1.03	120°	1.50 - 7.0 A (6V) 0.75 - 3.5 A (12V)	1042 - 1200 lm @ 0.75 A
	SFT-70X-WH	2700K - 4000K	Min. 95		5.00 × 5.00 × 1.03	120°	1.50 - 4.0 A (6V) 0.75 - 2.0 A (12V)	720 - 815 lm @ 0.75 A
	SBT-90-W	5700K	Min. 65, Typ. 70	11.00 × 10.00 × 1.54	120°	9 - 18 A	2780 - 3200 lm @ 9 A	

New Products Coming Soon: SFT-12R-W

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	630-2160m W
		SB	470nm					41-147
		G	527nm					148-421
		R	621nm					71-284
		DR	660nm					450-1800 mW
		FR	730nm					310-1240 mW
	SST-20	B	450nm	3.45×3.45	120°	0.35-3	750-4100 mW	
		DR	660nm				1030-2600 mW	
	SFT-10	B	455nm	3535 EMC	3.50×3.50	Windowless	0.7-4	34-119
		CG	555nm					305-1140
		RA	613nm					120-348
	SFT-14	B	455nm	3.50×3.50	Windowless	0.98-5.6	0.98-4.2	45-166
		CG	555nm					490-1720
		RA	613nm					158-513
	SFT-20	B	455nm	3.50×3.50	Windowless	1.4-8	1.4-6	80-265
		CG	555nm					520-1820
		RA	613nm					240-615
	SBT-90	R	620nm		11.0×10.0	Flat window	9-13.5	945-1350
	SBM-40 LC	R	622nm	SMT	5.75×4.68	Flat window	0.7-1	45-133
		G	527nm					112-281
		B	455nm					630-1260 mW
		W	6500K					140-295
	SBM-40 SC	R	623nm	SMT	5.75×4.68	Flat window	1-2	90-253
		G	525nm					210-404
		B	454nm					1-2.3 W
		W	6500K					210-543 lm
	SBM-40 HC	R	623nm	SMT	5.75×4.68	Flat window	1-3	125-275
		G	525nm					280-500
		B	454nm					1.4-3.15 W
		W	6500K					365-800
	SBM-40-HC	R	623nm	SMT	5.75×4.68	Flat window	1-3	125-275
		G	525nm					280-500
		B	454nm					1.4-3.15 W
		L	0.4165 0.5175					440-990

* In lumens unless stated otherwise

Color Surface Mount Series

- Low thermal resistance
- High current density (up to 3 A/mm²)
- 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



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 $\ll 1 \text{ A/mm}^2$ to $3\text{-}4 \text{ A/mm}^2$ 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	470nm	COB	26.5 x 16	Flat Window	6	5.5-6.5 W
	CFT-50X	6500K, WCS	65		26.5x18	Windowless	12.5-15	3500-3800
		6000K, WDH	92					2000-2200
		UV	410nm					18-20 W
		BP	440nm					16-18 W
		B	460nm					13-14 W
		CG-D	525nm					10.5-12 W
		CG-M	560nm					10-11 W
		CA	600nm					6-7 W
R	636nm	7-8 W						
	CBT-90	5700/6500K	70		28x26.75	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		21.85x15	Flat window	7.5-10	3.6-4.5 W
		G	520nm					2.9-3.6 W
	CBT-90	B	460nm		28x26.75	Flat window	13.5-27	500-750
		G	527nm					2100-3360
		RX	620nm					1030-1130
	CFT-90	CG	576nm	28x26.75	Windowless	22.5-27	12.5-14 W	
	CBM-120	FR	730nm	28x26.75	Flat window	9-18	6.5-10.7 W	
	PT-121	B	460nm	28x26.75	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	3.0x3.0	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		3.0x3.0	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		3535 EMC	3.0x3.0	Windowless	0.5-1.5	0.70-1.60W	0.23", 0.30"
		RA	613nm						78-141	
	SFT-10	B	455nm			3.50x3.50	Windowless	0.7-5.0	0.95-3.7W	
		CG	555nm	305-1200						
		RA	613nm	120-360						
	SFT-14	B	459nm	3.50x3.50		Windowless	0.98-8.4	1.3-5.9W		
		CG	613nm					490-2500		
		RA	555nm					150-590		
	SFT-20 (5A/mm²)	B	455nm	3.50x3.50		Windowless	1.4-10.0	2.2-9.2W	0.30", 0.33"	
		CG	555nm					620-2400		
		RA	613nm					240-750		
	SFT-20X (6A/mm²)	B	455nm			Windowless		Coming Soon		0.33", 0.39
		CG	555nm		Contact Luminus					
		RA	613nm							
	PT-26 (6A/mm²)	B	455nm	COB	21.0x15.5	Windowless	10.4-15.6	8.2-11.0W	0.33", 0.39	
		CG	555nm				10.4-10.4	3100-3800		
		RA	613nm				1000-1200			
	PTM-40X	B	455nm		27.0x15.5	Windowless	8.0-12.0	13.0-16.2W	0.45", 0.47"	
		CG	555nm					5600-6800		
		RA	613nm					1790		
	PTM-50X	B	457nm		27.0x15.5	Windowless	10.0-16.0	21.03-27.50	0.45", 0.65	
		CG	555nm					7000-9100		
		RA	613nm					2100-2500		
	PT-121	B	460nm		28x26.75	Flat window	30.0-36.0	1000-1050W	0.70", 0.80", 0.90"	
		G	525nm					5200-5500		
		RAX	613nm					2650-2860		

New Products Coming Soon: SFT-14 Red-Amber PTM-40X Red-Amber PTM-50X Red-Amber

* In lumens unless stated otherwise
 ** Digital Micro Display

Projection LEDs

- High current density Red/Green/Blue for maximal projector output up to CG & B 6.5 A/mm² RA 4.5 A/mm²
- 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 × 330
SFx-25XA	DLP302x-Q1	0.30"	864 × 480
SFx-25XA	DLP462x-Q1	0.46"	960 × 480
SFx-42XA	DLP55xx-Q1	0.55"	1152 × 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

Green Laser Features

The Green Laser is characterized by its typical peak wavelength of 520 nm and an output power (CW) of 80 mW. It operates efficiently under both pulsed and CW modes. This single-mode diode laser also supports high-speed modulation and comes in a TO-56 package with a photodiode. It has a wide range of applications, such as laser lighting and illumination, laser projection display, leveling and measurement, and biometric monitoring.

Blue Laser Features

The Blue Laser has a typical peak wavelength of 455 nm and an output power (CW) of 100 mW. Like the Green Laser, it also operates efficiently under pulsed and CW modes, supports high-speed modulation, and comes in a TO-56 package with a photodiode. The Blue Laser is a versatile tool, often used in fields like entertainment, technology, and health.

Image	Product	Operating Temperature (C°)	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-008-520	-20-60	520	80	160	6.0	7° (5.5°-8.5°)	21°(19°-24°)	40	Yes
	LST-010-455	-20-60	455	100	160	5.0	5.5°(4°-7°)	23°(21°- 25°)	25	Yes

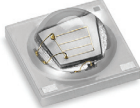
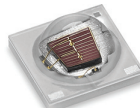

Horticulture LEDs

- 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($\mu\text{mol/s}$) 360-830nm	PPF/W($\mu\text{mol/J}$) 360-830nm	PPF($\mu\text{mol/s}$) 400-700nm	PPF/W($\mu\text{mol/J}$) 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	215 lm/W	0.58	3.35	0.57	3.24
39.5	123	227 lm/W	0.58	3.34	0.56	3.20
39.5	126	227 lm/W	0.58	3.35	0.57	3.24
39.5	125	227 lm/W	0.58	3.35	0.56	3.23

Applications Engineering Support & Help Desk

The Luminus Devices global applications support team provides expert design-in services for its market-leading high-performance LEDs, Lasers, SiC power components and modules, and LED driver products.

- The application support website is found under Resources & Tools at www.luminus.com.
- This site provides a wealth of resources, including:
 - **Systems Engineering Expertise:** Tap into the team's extensive knowledge and request design-in support via the Help Center
 - **Online Help Center:** A robust online repository provides instant assistance, troubleshooting guides, and best practices.
 - **Design Files and Tools:** Access to comprehensive design files and cutting-edge tools
 - **Application Notes:** In-depth documentation offers insights and solutions for a diverse range of applications problems
 - **Ecosystem Solutions:** A large network of expert partners provides verified 3rd party solutions that assist design-in activities and expedite time to market.

Development Kits

Available for purchase to evaluate a wide range of configurations and operating modes.

SnapMagic

www.snapeda.com

Luminus' electronic design library files are available on SnapEDA. 3D step files, symbols and footprints are available in a wide variety of formats including Altium, Eagle, Pads, OrCAD, and more.

Help Center

<https://luminusdevices.zendesk.com/hc/en-us>
www.echsupport@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

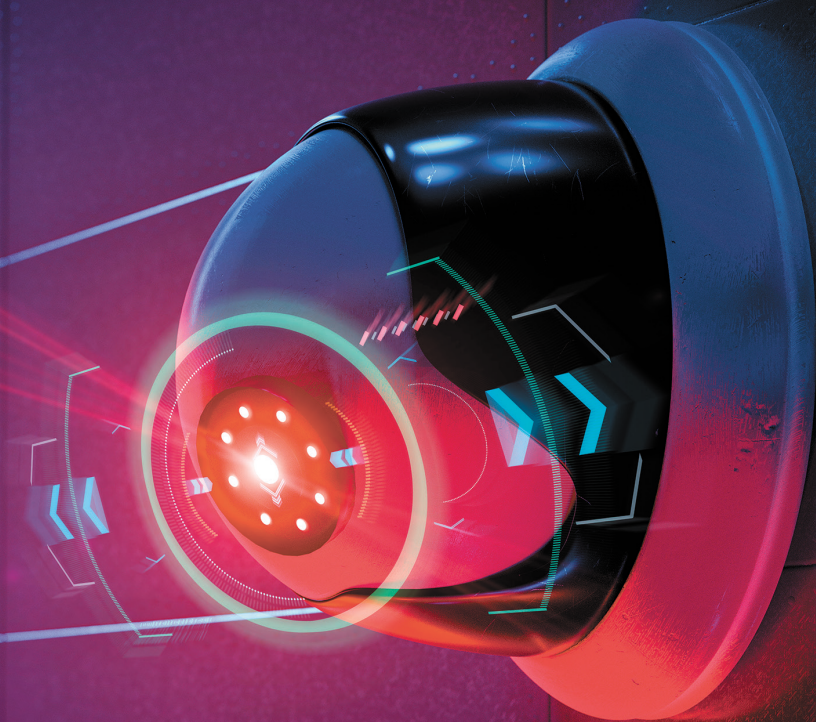
System engineering support

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

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Improving Life with Photons™

CONTACT US

Luminus Devices, Inc.

US Headquarters
1145 Sonora Ct.
Sunnyvale, CA 94086, USA
sales@luminus.com
www.luminus.com

Luminus Devices, Inc (Xiamen)

Operations Office
7th Floor, Building A1, No. 506-508,
Guojin Plaza, Qianpu Road, Xiamen, Fujian, China
Shunping Chen: +86-18620399565
Leon Li: +86-13860446602
Tel: +86-592-5500727
shunping.chen@luminus.com
leon.li@luminus.com

