



Bridging Light and Life™



LED Products Overview 2021/2022

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Company Profile



At Bridgelux, we help companies, industries and people experience the power and possibility of light. Since 2002, we've designed solid-state lighting solutions that are high performance, energy efficient, cost effective and easy to integrate.

Lighting is not just science. It is emotion.

Our patented light source technology produces clean, white LEDs used as the core of commercial and industrial lighting. It's a rapidly growing market, and everything we do is focused on understanding light's impact on human behavior and delivering products that create better environments and experiences. That is why Bridgelux products are backed by research, world-class engineering, and human intuition.

The industry is changing. We keep you ahead.

From our successful Vero® Series to smart lighting, Bridgelux is globally driving new platforms. As a vertically integrated company, our process is agile, so we quickly scale to address customers' needs whether they are a lighting specifier, fixture manufacturer or luminaire distributor.

We bring large semiconductor R&D to important collaborations on extending LED technology. We are a member of global industry groups like CSA and ASSIL, as we participate in new solutions to current problems, and a better future for solid-state lighting.

1500+ million

Emitter & Array Sales Per Month

1000+

Owned & Licensed Patents

100+ million

Deployed Array Products

11

Worldwide Locations

Human Centric Lighting

How does lighting make you feel? Lighting has more effect on people than just enabling us to see. Lighting also impacts, enhances, and affects our mood and health. Human Centric Lighting (HCL) is a new trend in lighting to address the effects of lighting on the physical and emotional health and well-being of people.



LEDs are an ideal light source for HCL. They can be optimized to deliver specific spectra that closely match natural light sources. They can be used in dynamic lighting systems that adjust automatically to track the spectra of the sunlight throughout the day, or to allow us to personalize our environment to suit our desires.



Bridgelux is focused on developing new solutions to accelerate the market transition to human centric lighting.

Thrive™ Natural Light Source

As part of the transition to human centric lighting, there is increasing demand for "natural" light sources. The evolution of the human species has conditioned us to thrive in daylight hours by the light of the sun, and after dusk, in the warm glow of fire.

Bridgelux Thrive is a family of LED light sources engineered to provide the closest match to natural light, enabling perfectly natural full spectrum lighting in human centric environments.



Standard color quality metrics such as CRI and TM-30 are often considered when selecting a light source. While Thrive has extremely high CRI and TM-30 values; until now, there has been no metric that truly quantifies the naturalness of a light source. The Average Spectral Difference (ASD) metric developed by Bridgelux addresses this shortcoming by providing an objective measurement of how closely a light source matches natural light.

Vesta® Tunable, Personalized Lighting

The ability to use lighting to shape our environment has been historically limited to adjusting brightness through dimming. Tunable white lighting systems offer new abilities to personalize lighting, tailoring our environment to individual preferences or task-oriented needs.

The Vesta® Series from Bridgelux is the industry's largest portfolio of tunable white solutions. Combining Thrive with Vesta enables natural full spectrum tunable white luminaires to further enhance our environments.

Examples include schools and office settings where tunable white lighting can mimic the natural phenomenon of sunlight variation with time of day to improve alertness and productivity, aligning with our natural circadian rhythm.



Healthcare facilities are now able to provide lighting that promotes wakefulness and attention to detail for the providers in their workstations, while mimicking the natural circadian rhythm in patient rooms to promote health and wellbeing.



Thrive™ Series



Product Introduction

Throughout evolution, the human visual system has evolved under the natural light of sun and fire. These light sources have standardized industry spectral power definitions that describe the state of natural light. Lighting specifiers, designers, and luminaire manufacturers regularly consider color quality metrics such as CRI and TM-30, as well as individual spectral power distributions (SPDs), when making decisions regarding light source selection. However, until now, there has been no metric that quantifies the naturalness of a light source. Average Spectral Difference (ASD) provides an objective measurement of how closely a light source matches natural light over the visible spectrum, averaging the differences of the spectral peaks and valleys between a light source and a standardized natural light source of the same CCT.

Bridgelux Thrive™ is a family of white points designed for Bridgelux surface mount devices (SMD), V Series™ and V Series HD chip-on-board LED arrays, EB Series™ linear modules, and Vesta® tunable white COBs and modules. Engineered to provide the closest match to natural light available using proprietary chip, phosphor, and packaging technology, Thrive can be used in constant color point luminaires to bring full spectrum natural light indoors, or in tunable white luminaires to incorporate circadian elements that may impact human well-being. The high-fidelity spectral output of Thrive creates stunning environments with excellent color rendering and outstanding TM-30 metrics. Target applications include office, education, healthcare, retail, hospitality, architectural, museums, and residential lighting.

Features

- ✓ Engineered spectrum to closely match natural light
- ✓ Typical Average Spectral Difference (ASD) values <10%
- ✓ 98 CRI typical, R1-R15 >90, high Rf and Rg values
- ✓ High efficacy, full spectrum solution
- ✓ No violet chip augmentation
- ✓ Hot color targeted
- ✓ Form factor consistent with existing Bridgelux COB arrays
- ✓ Broad product platform availability (SMDs and COBs)

Benefits

- ✓ Full consistent spectrum with fewer spectral spikes
- ✓ Closest match to natural light available (425nm -690nm)
- ✓ Natural and vivid color rendering
- ✓ Greater energy savings, lower utility costs
- ✓ Economical, high efficiency solution
- ✓ Uniform and consistent white light at application conditions
- ✓ Ease of design and rapid go-to-market
- ✓ Enables greater design flexibility and platform color consistency

Product Specifications

Product Series	Product	Part Number	PCB Size (mm)	SPI	LES (mm)	Typical Vf (V)	If Range (Typical to Max) (mA)	Typical Efficacy (lm/W) (3000K 98CRI)	Power Range (W) (typical to Max)	CCT Options	CRI Options
Thrive Series COB	V4 HD	BXRH-xxS0601-A-7x	12.5x12.5	40	4.8	36.4	175-240	92	6.4-9.1	2700K 3000K 3500K 4000K 5000K 5700K 6500K	98
	V6 HD	BXRH-xxS1001-B-7x	13.5x13.5	35	6.6	36.4	350-480	96	12.7-18.1		
	V8D	BXRE-xxS0801-D-7x	12.5x12.5	40	8.1	17.3	350-700	111	6.1-12.9		
	V8E	BXRE-xxS0801-E-7x				34.7	175-350	111	6.1-12.9		
	V10B	BXRE-xxS1001-B-7x	13.5x13.5	30	10.2	34.4	270-540	116	9.3-19.3		
	V10C	BXRE-xxS1001-C-7x				34.4	360-720	116	12.4-25.7		
	V13C	BXRE-xxS2001-C-7x	19x19	25	14.0	34.4	630-1260	116	21.7-45.0		
	V18C	BXRE-xxS4001-C-7x	24x24	20	19.2	34.4	1170-2340	116	40.2-83.5		
	NTW9	BXRV-TR-xxxxS-10A0-A-2x	15.8x15.8	30	10.3	18.0	500-700	105	9-13.0	1800K-4000K	98
	NTW9	BXRV-TR-xxxxS-10A0-B-2x	15.8x15.8	30	10.3	34.8	250-480	115	8.7-18	2700K-5000K 2700K-6500K	98
	NTW13	BXRV-TR-xxxxS-20A0-A-23	18.8x18.8	25	14.3	36.3	500-700	110	18.2-26.6	2700K-5000K 2700K-6500K	98
	NTW18	BXRV-TR-xxxxS-40A0-A-2x	24x24	20	19.6	35.3	900-1400	109	31.7-49.0	2700K-5000K 2700K-6500K 1800K-4000K	98
	E6CA	BXKC-XXS0801-A-13	13.35x13.35	35	6.0	36.2	100-200	105	3.6-7.6	2700K-6500K	98
	E8CA	BXKC-XXS1501-B-13	15.85x15.85	30	8.9	36.2	200-400	107	7.2-15.2	2700K-6500K	98
	E6CA HE	BXKC-XXS0801-A-23	13.35x13.35	35	6.0	34.8	100-240	110	3.5-9.1	2700K-6500K	98
	E8CA HE	BXKC-XXS1501-B-23	15.85x15.85	30	8.9	34.8	200-480	113	7-18.2	2700K-6500K	98

Product	Product Part Number	Nominal Power (W)	Typical Vf (V)	Nominal Drive Current (mA)	Typ Flux (lm)	Typ Eff (lm/W)	The benchmark for Eff	CCT Options	CRI Options
2835 Thrive	BXFN-XXS-11L-3C-00-0-0	0.2	2.9	60	25	144	4000K/RA97	2700K-6500K	97
	BXFN-XXS-11M-3C-00-0-0	0.5	3.1	150	56	120			97
	BXFN-XXS-13H-9C-00-0-0	1	9.1	100	103	114			97

Thrive™ Series

Thrive™

The almost same Human Centric Lighting Metrics with nature light

CCT	MR Value			CAF Value			CS Value 300 LUX Eye Illuminance		
	Thrive™	Natural Light	Difference	Thrive™	Natural Light	Difference	Thrive™	Natural Light	Difference
2700K	0.52	0.52	-0.01	0.34	0.35	-0.02	0.30	0.30	-0.01
3000K	0.60	0.60	-0.01	0.42	0.43	-0.01	0.33	0.33	0.00
3500K	0.67	0.68	-0.01	0.49	0.50	-0.02	0.36	0.36	0.00
4000K	0.74	0.73	0.01	0.54	0.56	-0.02	0.25	0.26	-0.01
5000K	0.95	0.93	0.01	0.74	0.76	-0.02	0.34	0.34	0.00
5700K	1.02	1.02	0.01	0.83	0.84	-0.01	0.36	0.37	-0.01
6500K	1.09	1.08	0.01	0.90	0.91	-0.01	0.39	0.39	-0.01

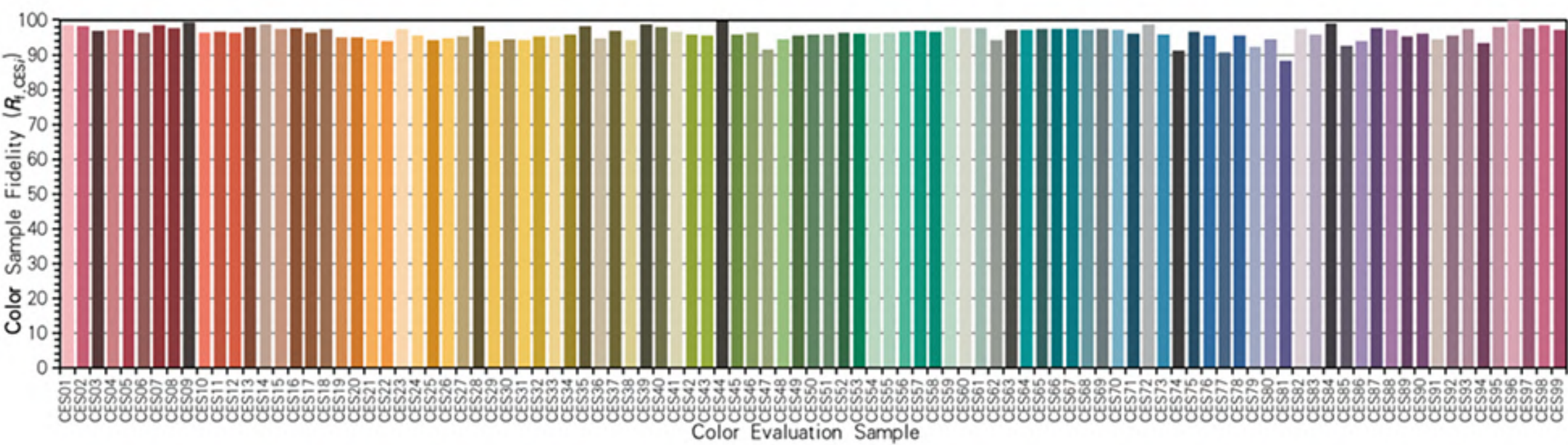
Thrive™

Excellent Color Rendering and TM-30 Metrics

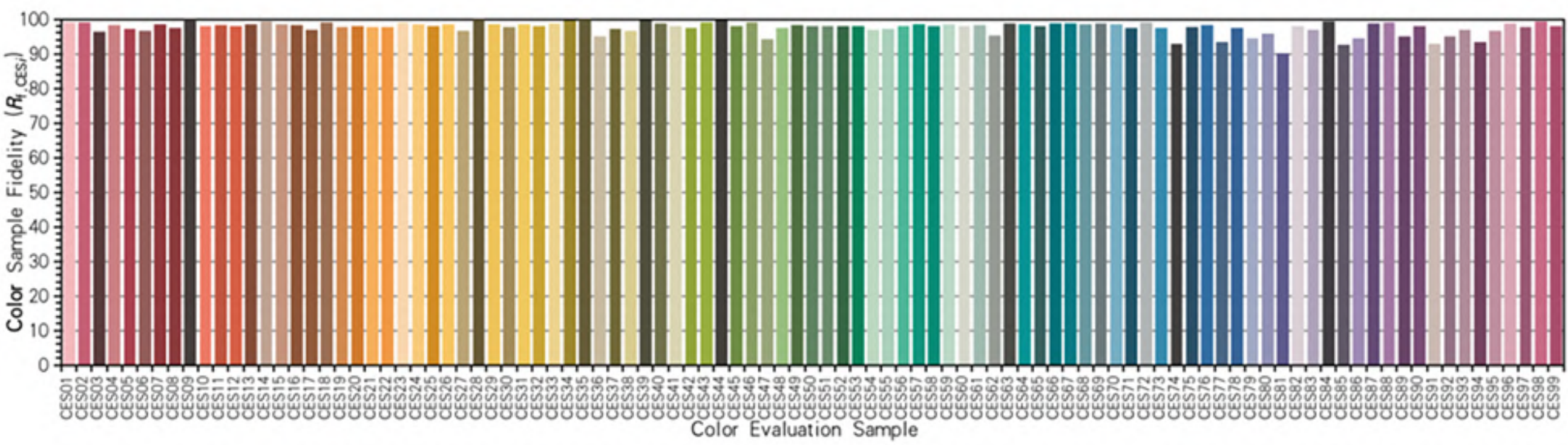
CCT	ASD	TM-30		Thrive Typical CRI and CRI R Values															
		R _f	R _g	R _a	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
2700K	10%	96	99	98	97	98	97	96	97	96	99	99	98	98	93	95	97	98	98
3000K	9%	97	100	98	98	99	97	97	98	98	100	100	99	100	95	98	98	98	97
3500K	8%	97	100	98	97	98	98	97	97	97	99	98	96	98	95	97	97	98	98
4000K	8%	97	100	98	99	99	99	99	99	99	99	99	98	99	99	95	99	99	99
5000K	9%	97	100	98	99	99	100	97	98	99	98	98	96	99	98	92	99	99	99
5700K	9%	97	99	98	98	99	99	98	98	98	98	96	91	98	98	94	99	99	97
6500K	8%	96	99	98	99	99	100	98	98	98	98	99	98	99	98	94	99	100	97



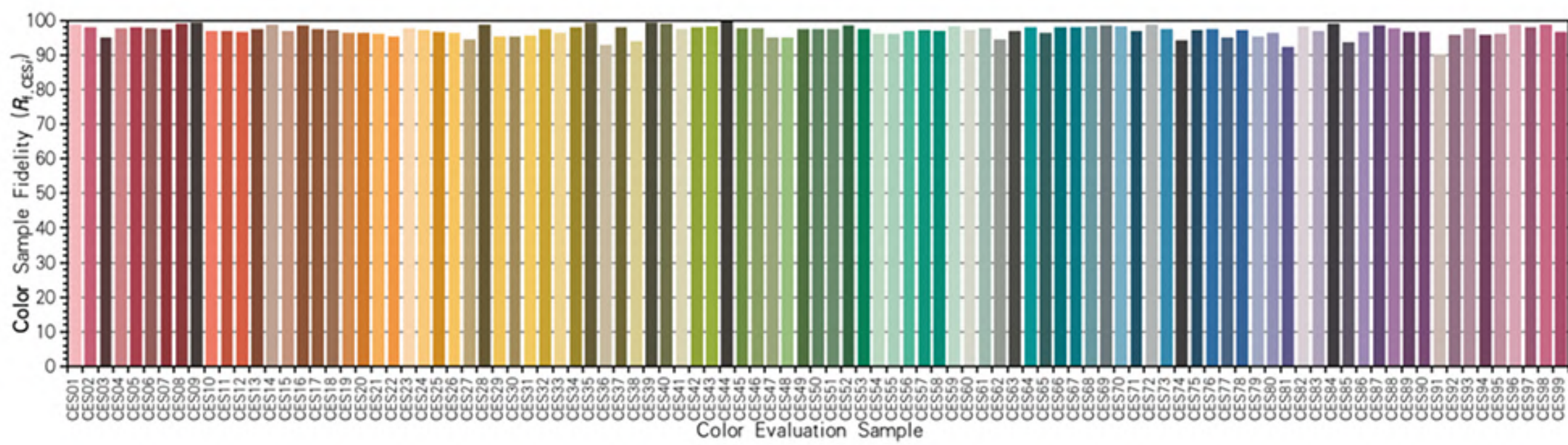
Thrive™
Perfect Color Sample Fidelity Results



2700K

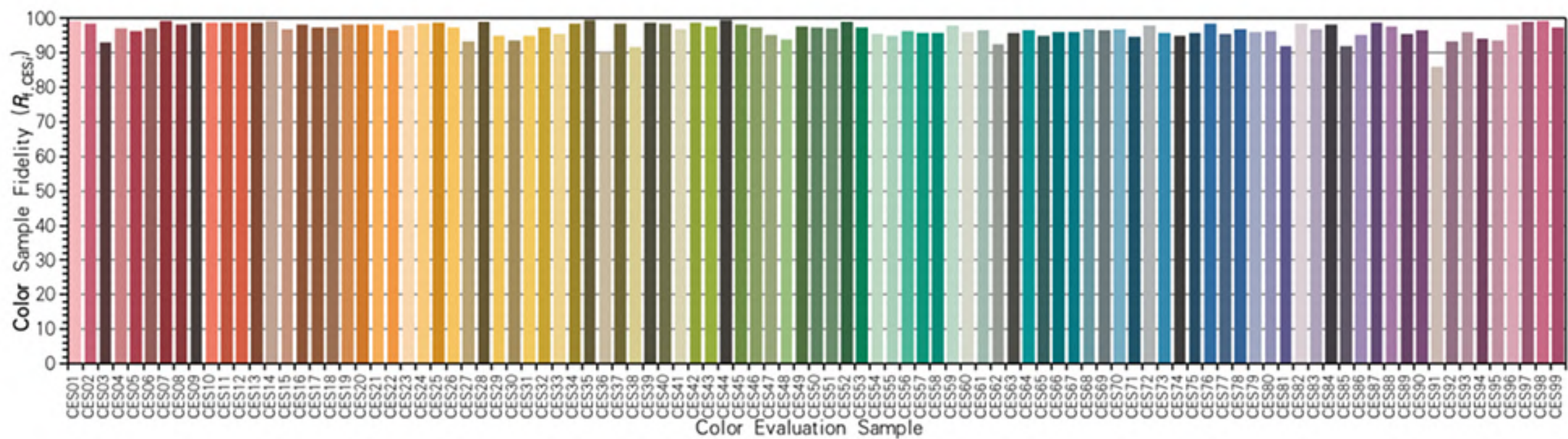


3000K

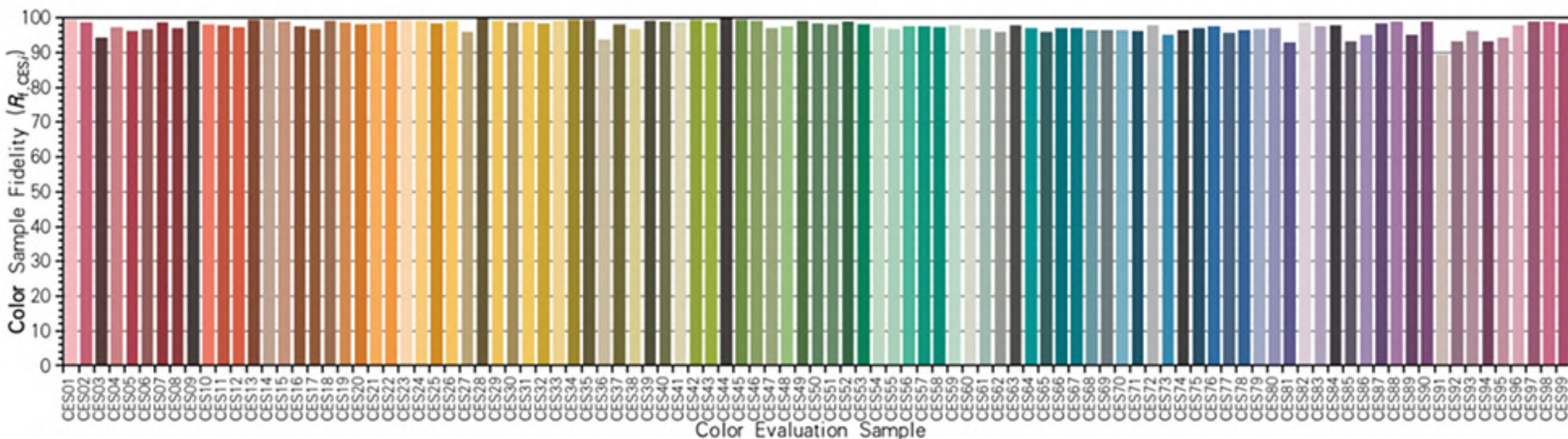


3500K

Thrive™ Series

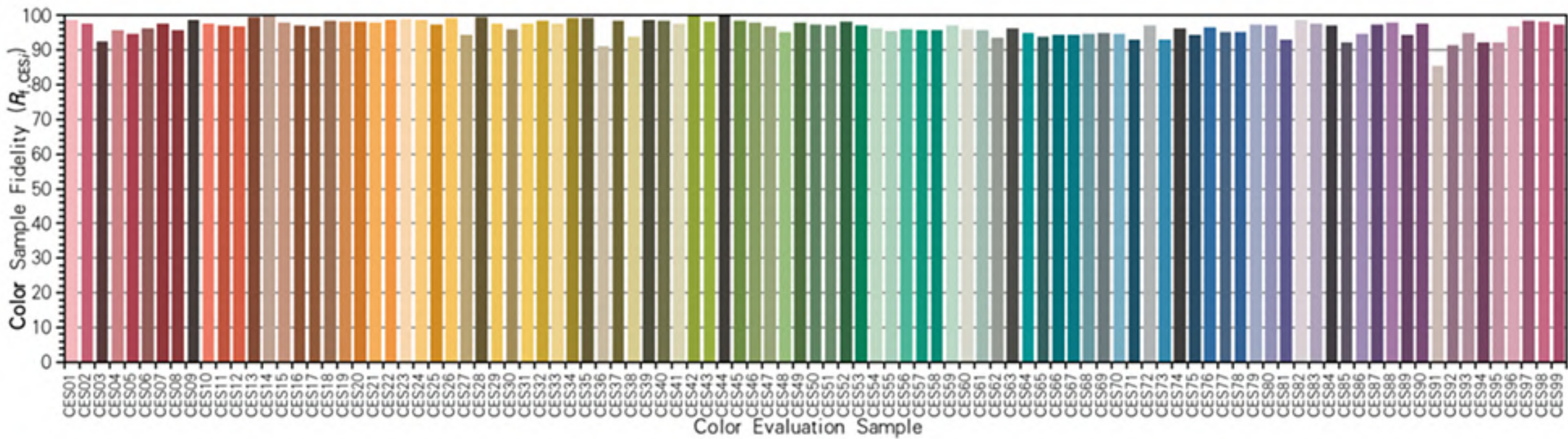


4000K

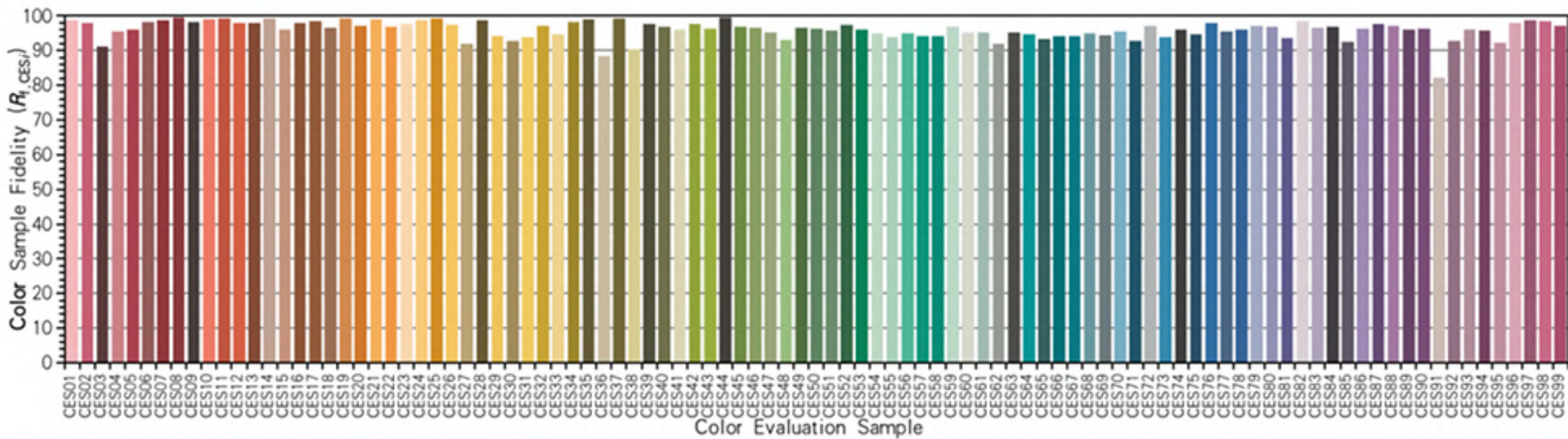


5000K

Thrive™
Perfect Color Sample Fidelity Results

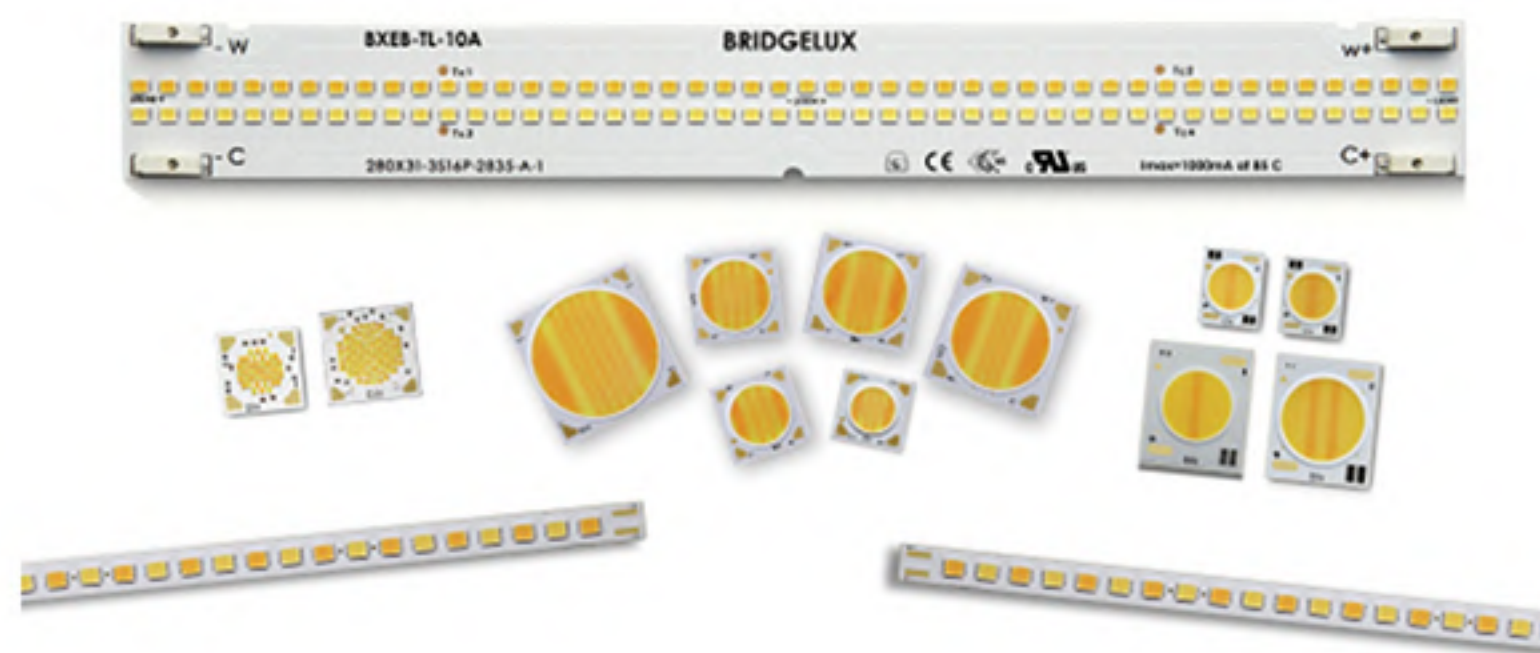


5700K



6500K

Vesta® Series



Product Introduction

Bridgelux Vesta Series is a comprehensive line of tunable white and dim-to-warm products that enable fixture manufacturers to build adaptable lighting solutions into their installations. Vesta Series products tap into the powerful mediums of light and color to influence experience, well-being, and human emotion. They allow designers to mimic daylight to increase productivity and well-being, retailers to influence shopper behavior, and fixture manufacturers to simulate the familiar glow and dimming of incandescent lamps. Vesta Series is comprised of CSP and phosphor dispensed-based tunable white arrays, SMD-based linear boards, and phosphor dispensed-based dim-to-warm arrays.

Vesta Series Tunable White Arrays and modules are also now available with Bridgelux Thrive™ white points, which combine unique chip, phosphor, and packaging technology to closely match the spectra of natural light. Thrive can now be used in tunable white luminaires to incorporate circadian elements that may impact human well-being. The high-fidelity spectral output of Thrive creates stunning environments with excellent color rendering and outstanding TM-30 metrics.

Features

- ✓ Arrays: Comprehensive line of Dim-To-Warm and Tunable White options
- ✓ Arrays: CSP and phosphor dispensed options for premium applications
- ✓ Arrays: Highly efficient designs with typical efficacies up to 135 lm/W
- ✓ Arrays: Wide flux package range available
- ✓ Edge: Slim in-line tunable white module for use in edge lit systems
- ✓ Edge: Excellent color mixing with a very short mixing distance
- ✓ Edge: Metal core PCB for advanced thermal performance
- ✓ Linear: SMD based linear boards for cost effective lighting applications

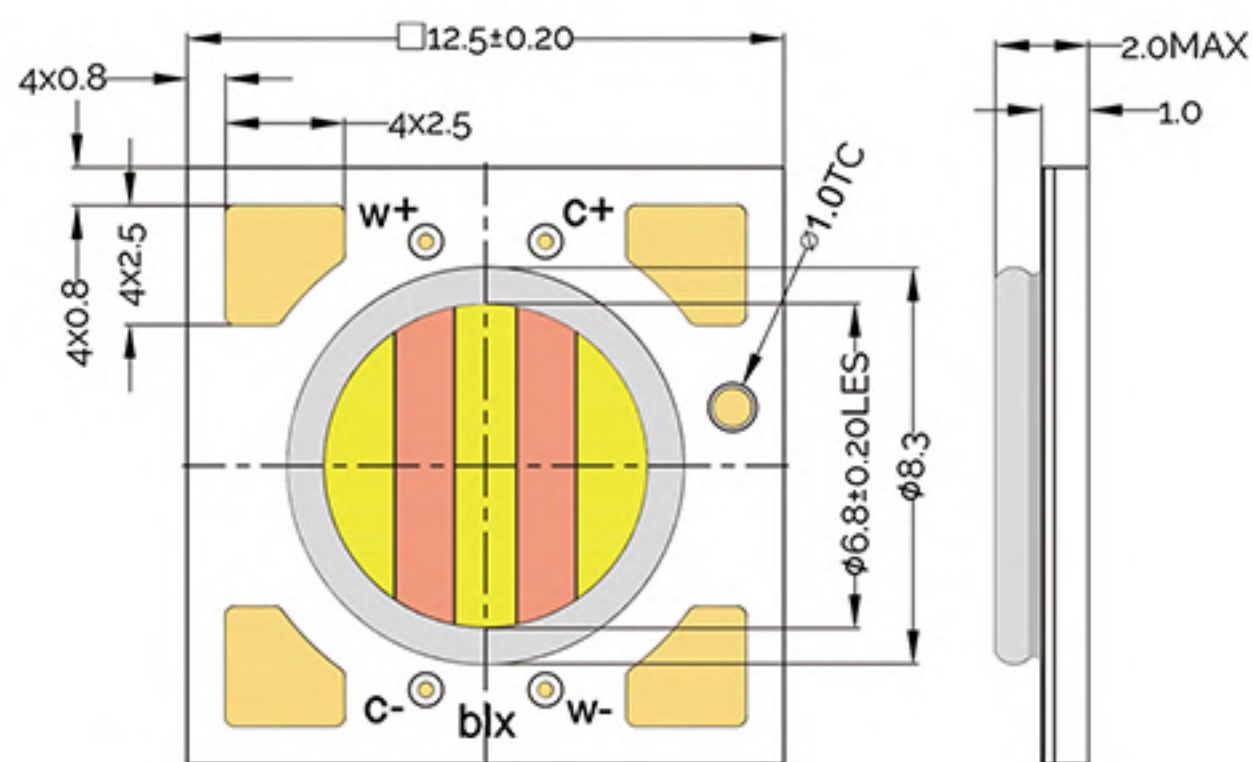
Benefits

- ✓ Superior color dimming transition and color mixing
- ✓ Compact system design
- ✓ Reliable operation through high conductivity substrates
- ✓ High-quality, true color reproduction
- ✓ Ideal for selectable CCT or human centric lighting applications
- ✓ Drop in replacement for 2x2 panel lights and 2x4 troffers
- ✓ Reliable use at elevated currents for greater design flexibility

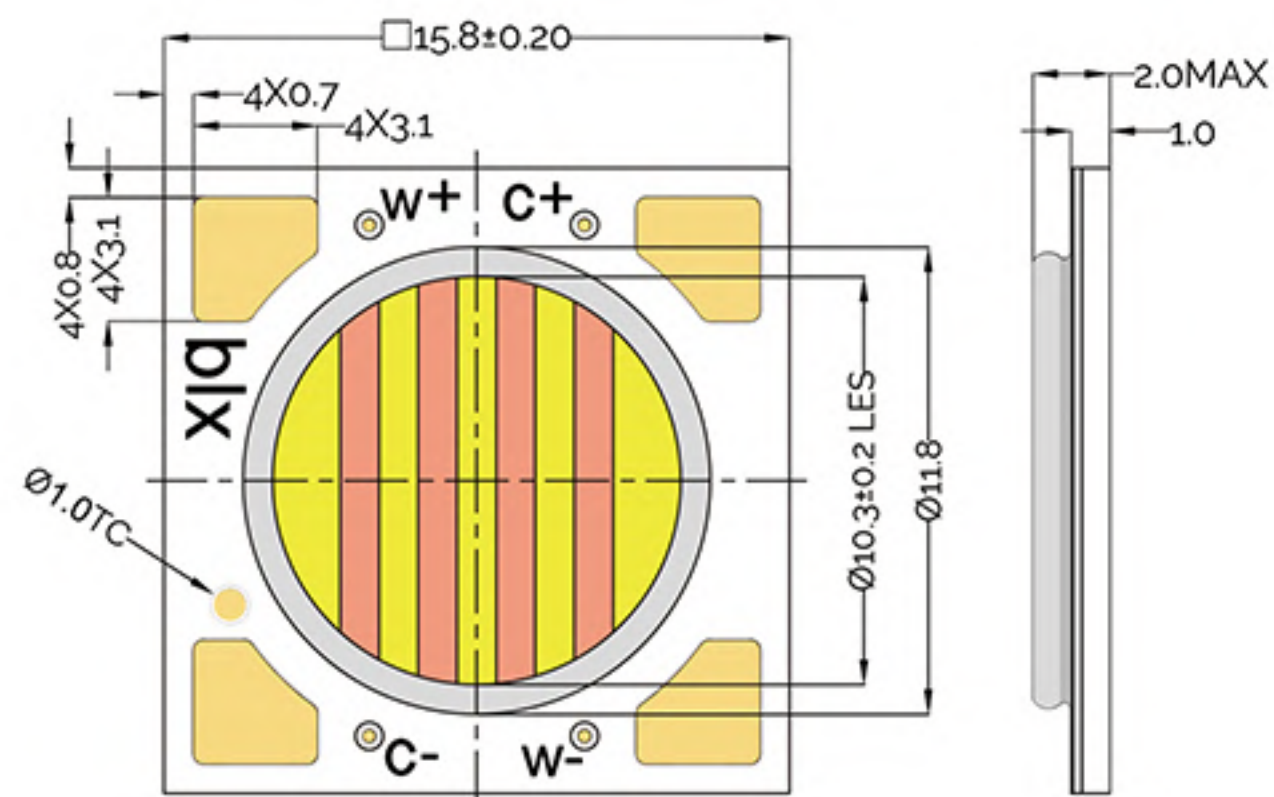
Product Specifications

Product Series	Product	Part Number	PCB Size (mm)	SPI	LES (mm)	Typical Vf (V)	If Range (Typical to Max) (mA)	Peak Efficacy at the highest CCT, Tc=25°C (lm/W)	Power Range (W) (typical to Max)	Tunable CCT Range and Options	CRI Options
Vesta NTW Series	NTW6	BXRV-TR-xxxxG-06A0-B-2x	12.5x12.5	40	6.8	36.0	150-200	110	5.4-7.4	2700-5000K 2700-6500K 1800-4000K	90
	NTW9	BXRV-TR-xxxxG-10A0-A-2x	15.8x15.8	30	10.3	18.0	500-700	122	9-13.0	2700-5000K 2700-6500K 1800-4000K	
	NTW9	BXRV-TR-xxxxG-10A0-B-2x	15.8x15.8	30	10.3	34.8	250-480	129	8.7-18	2700-5000K 2700-6500K 1800-3000K 1800-4000K	
	NTW13	BXRV-TR-xxxxG-20A0-A-2x	18.8x18.8	25	14.3	36.3	500-700	127	18.2-26.6	2700-5000K 2700-6500K 1800-3000K 1800-4000K	
	NTW15	BXRV-TR-xxxxG-30A0-A-2x	21x21	25	16.3	35.5	650-950	128	23.1-34.5	2700-5000K 2700-6500K	
	NTW18	BXRV-TR-xxxxG-40A0-A-2x	24x24	20	19.6	35.3	900-1400	129	31.7-49.0	2700-5000K 2700-6500K 1800-4000K	
	NTW22	BXRV-TR-xxxxG-65A0-A-2x	28x28	15	23.0	53.0	900-1400	128	47.7-73.9	2700-5000K 2700-6500K	
	NTW29	BXRV-TR-xxxxG-1KA0-A-2x	31.8x31.8	24	28.5	52.4	1050-1800	136	55-96.1	2700-5000K 2700-6500K	
Vesta ETW Series	ETW9	BXRV-TR-2750G-1000-A-2x	15.85x15.85	60	9.7	19.0	700-1400	105	13-28.4	2700-5000K	90
	ETW13	BXRV-TR-2750G-2000-A-2x	18.8x18.8	50	14.3	37.2	700-1400	106	26-58.8		
Vesta DW Series	DW6	BXRV-DR-18xxx-0600-A-1x	12x15	35	7.1	17.0	350-420	111	6-7.9	1800-2700K 1800-3000K	90
	DW6	BXRV-DR-18xxx-0600-B-2x	12x15	35	7.1	34.6	280-350	111	10-13.4		90
	DW9	BXRV-DR-18xxx-1000-G-1x	12x15	35	9.1	17.0	250-300	117	4.3-5.5		90/95
	DW9	BXRV-DR-18xxx-1000-A-1x	12x15	35	9.1	17.0	350-420	117	6-7.9		
	DW9	BXRV-DR-18xxx-1000-B-1x	12x15	35	9.1	33.8	350-420	117	11.8-15.8		
	DW13	BXRV-DR-18xxx-2000-A-1x	20x24	30	13.5	33.5	600-720	121	20.1-26.4		
	DW15	BXRV-DR-18xxx-3000-A-1x	20x24	30	15.7	34.1	950-1050	121	32.4-39.6		
	DW18	BXRV-DR-18xxx-4000-A-1x	24x24	28	18.3	34.5	1290-1400	118	44.5-51.2		
	DW29	BXRV-DR-18xxx-1K00-A-1x	32.05x32.05	24	28.5	46.5	2350-2500	122	109.2-123.2		

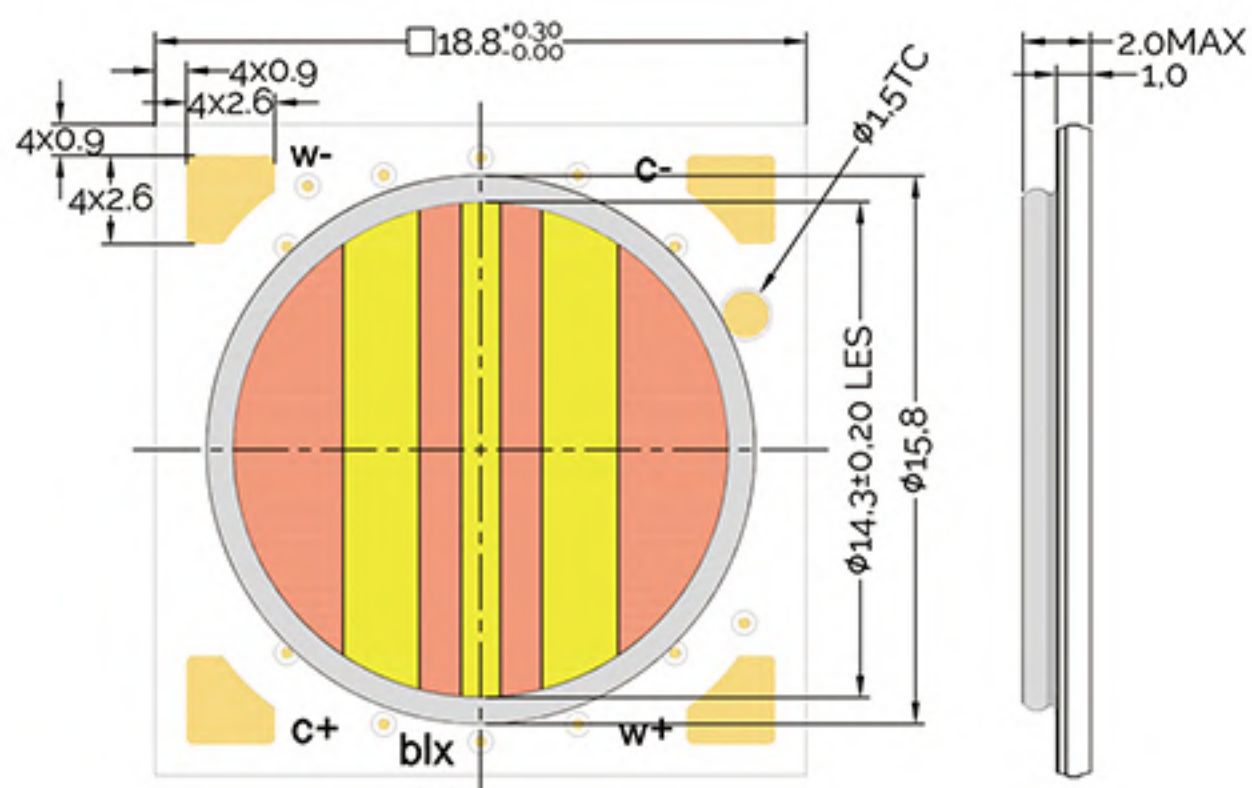
Vesta® Series



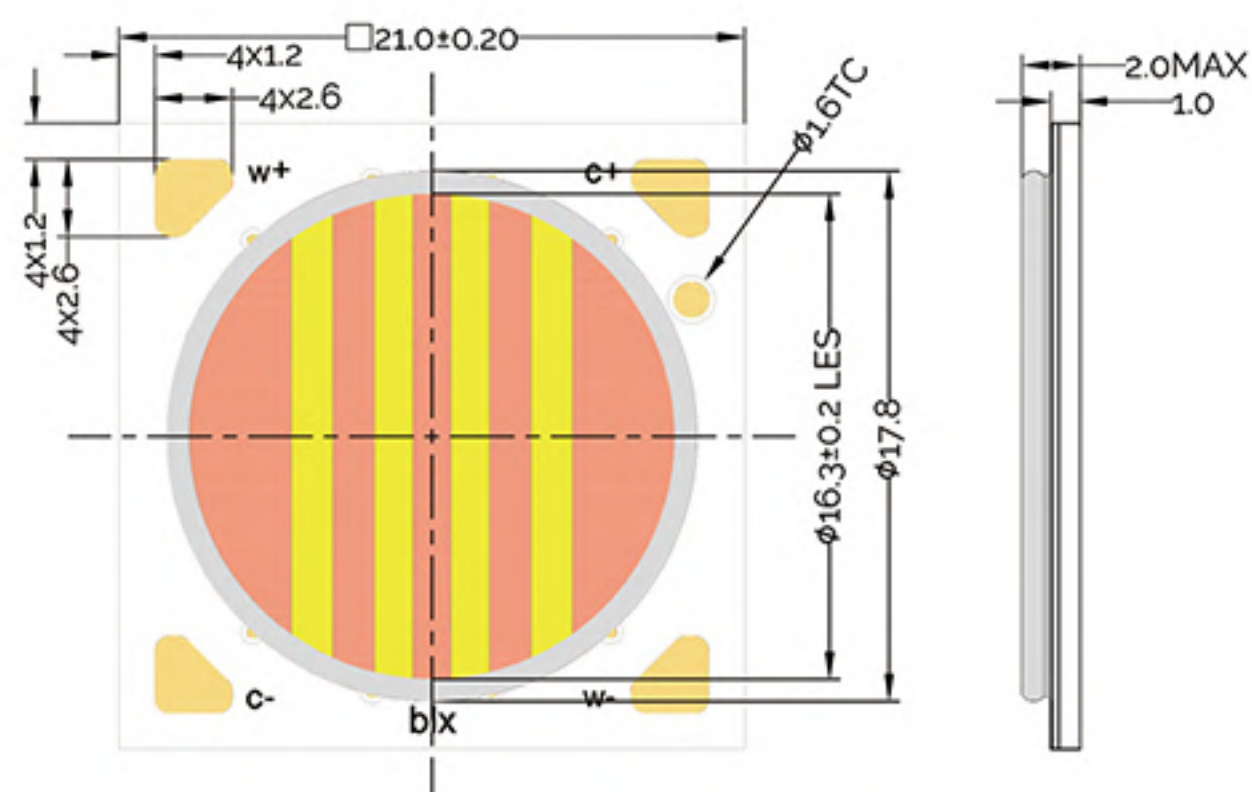
Vesta NTW 6



Vesta NTW 9

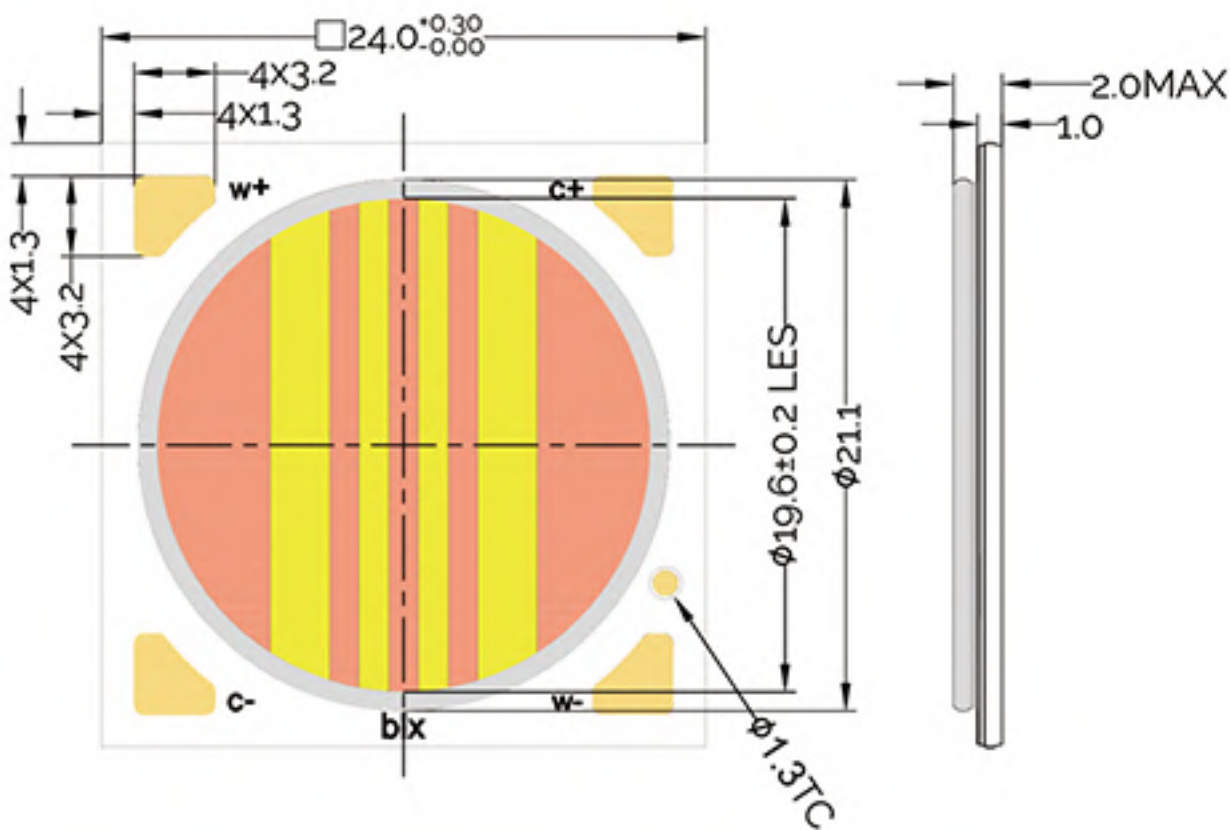


Vesta NTW 13

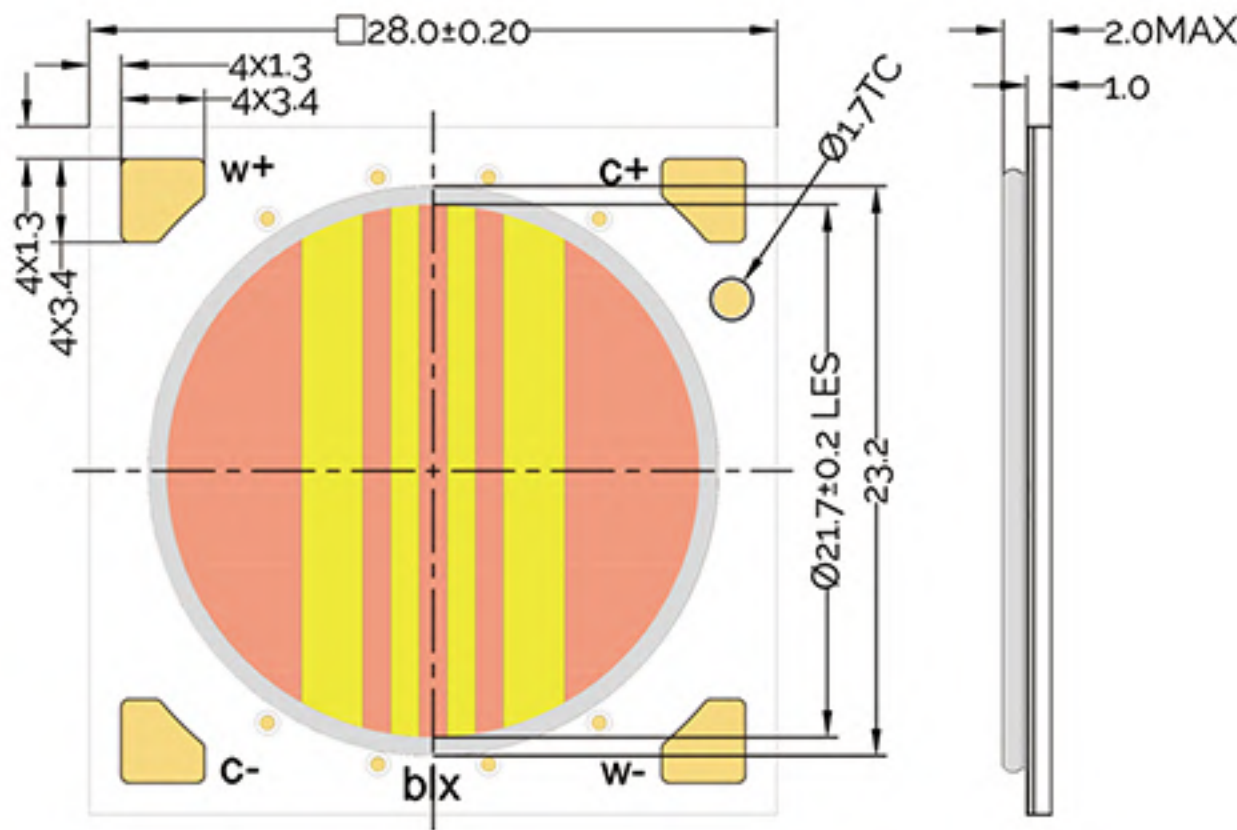


Vesta NTW 15

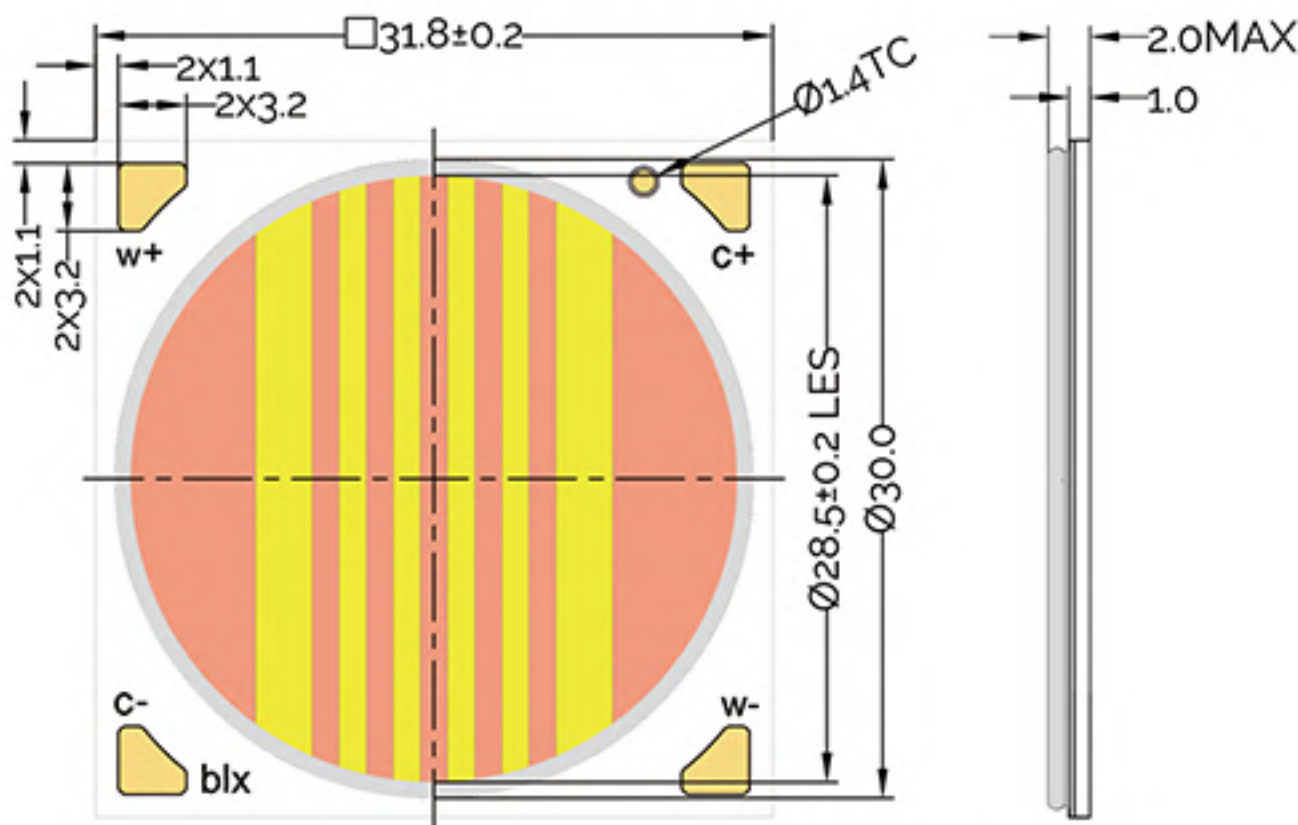
Product Drawings



Vesta NTW 18

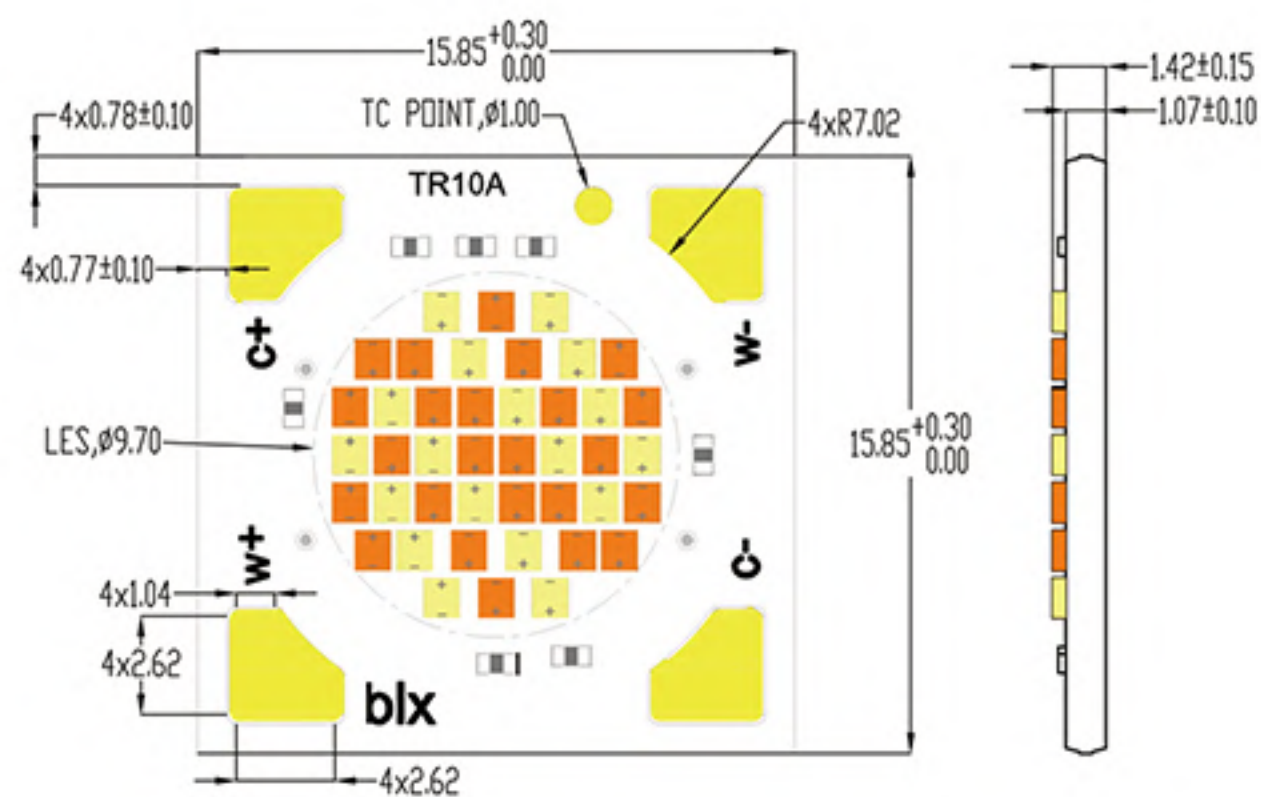


Vesta NTW 22

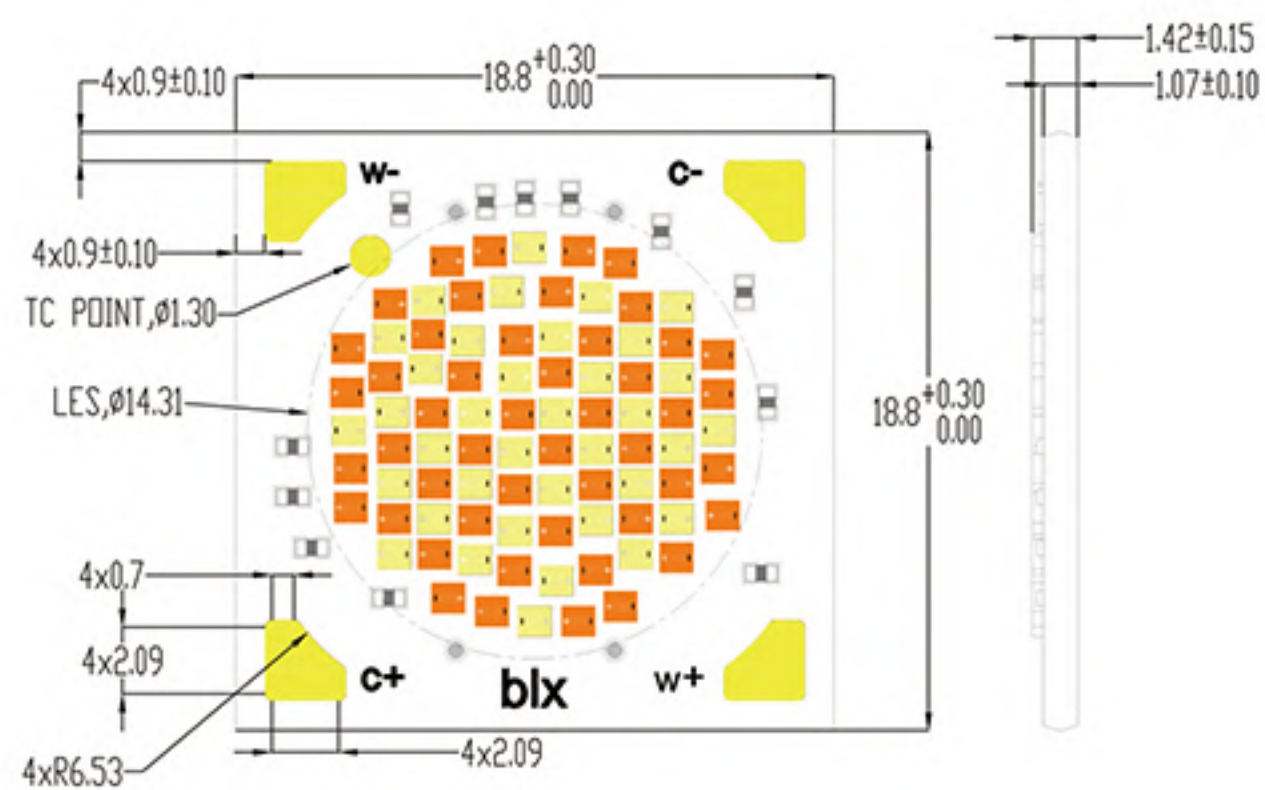


Vesta NTW 29

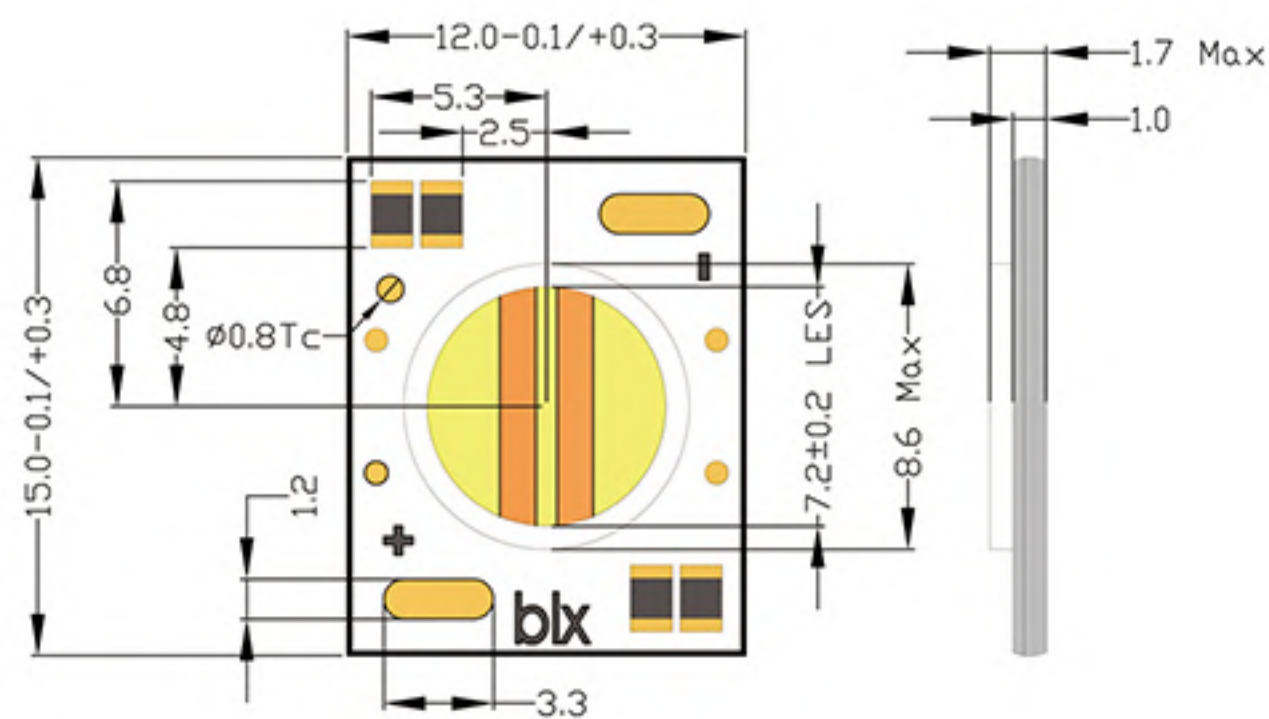
Vesta® Series



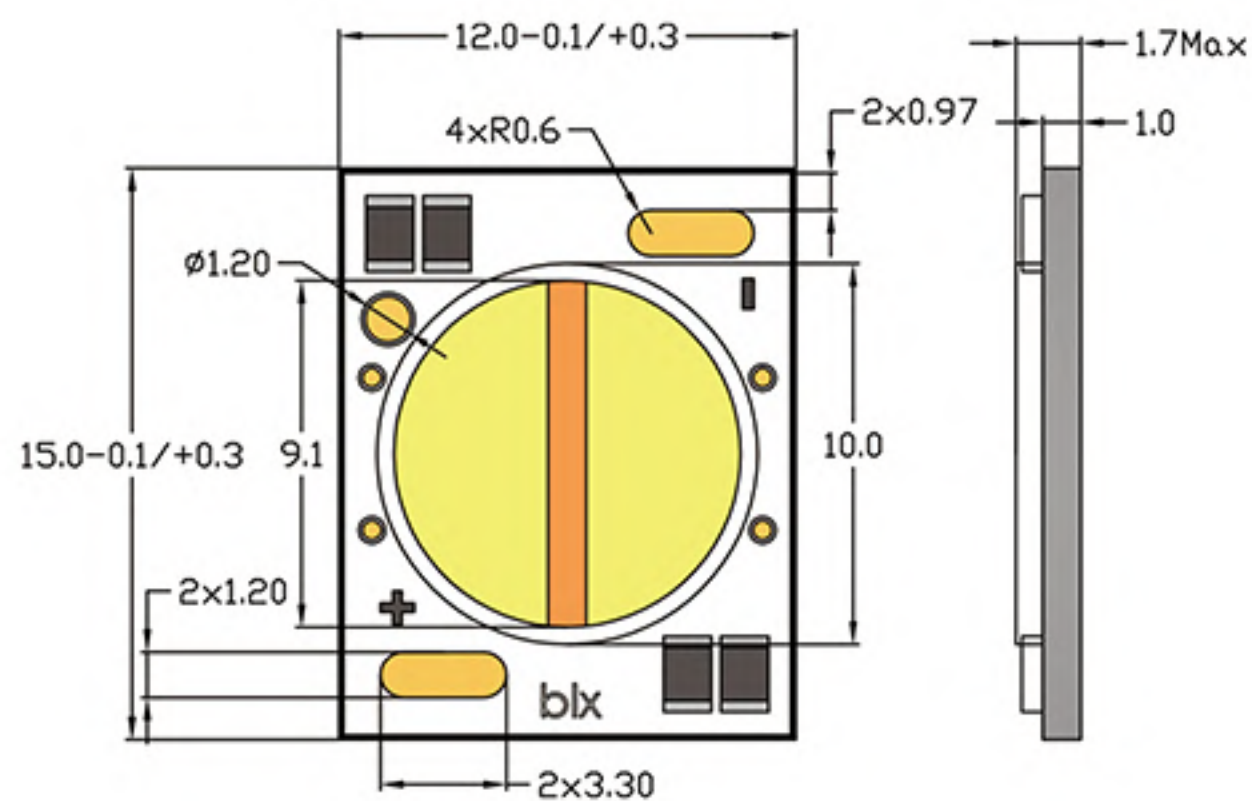
Vesta ETW 9



Vesta ETW 13

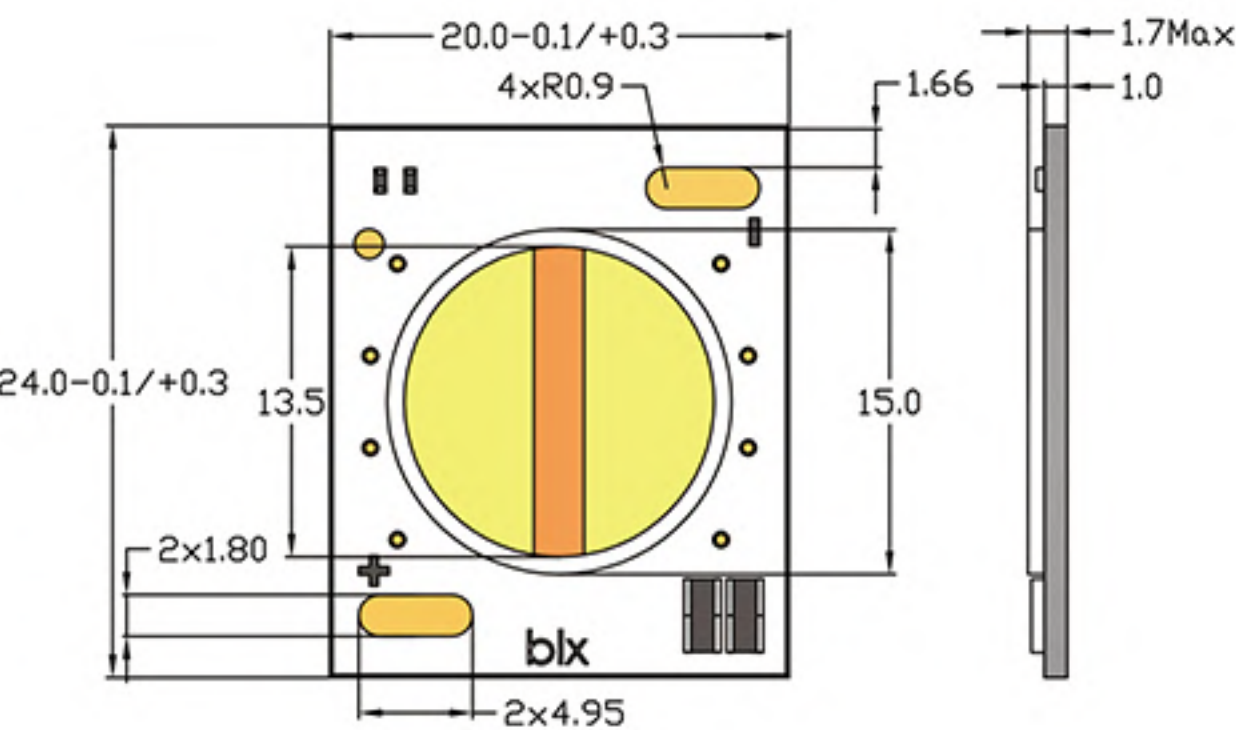


Vesta DW 6

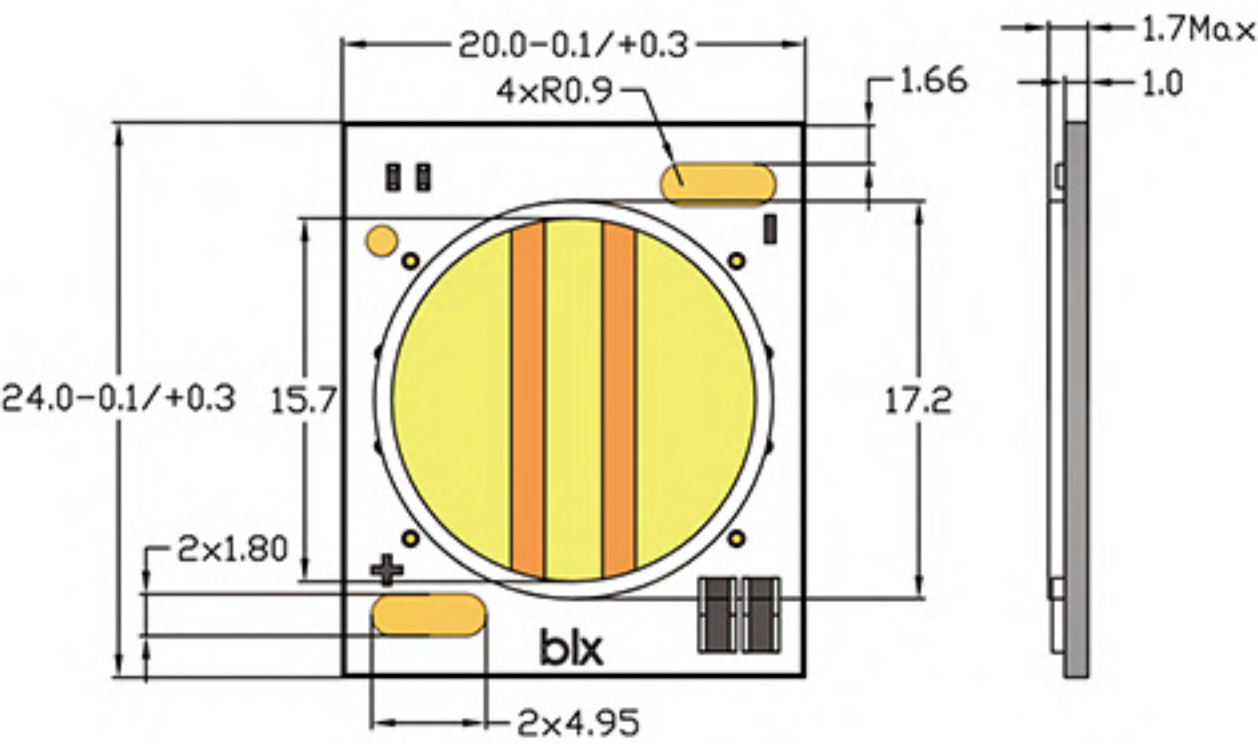


Vesta DW 9

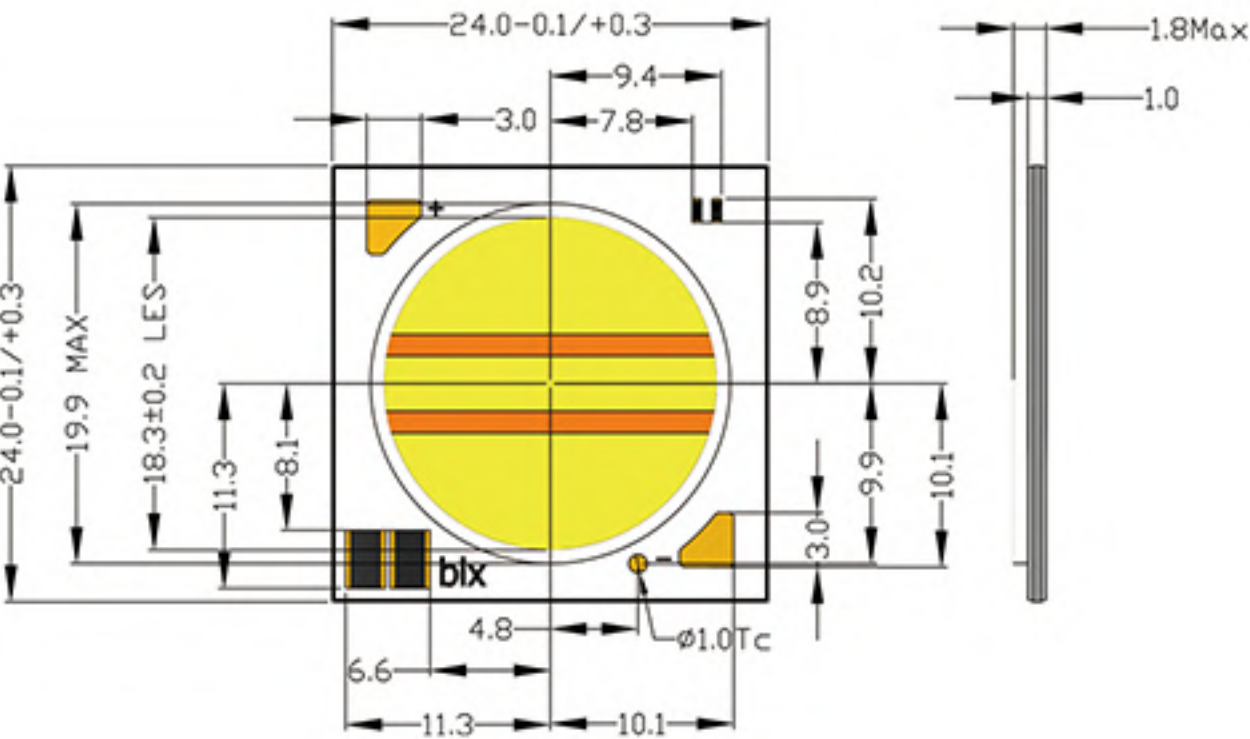
Product Drawings



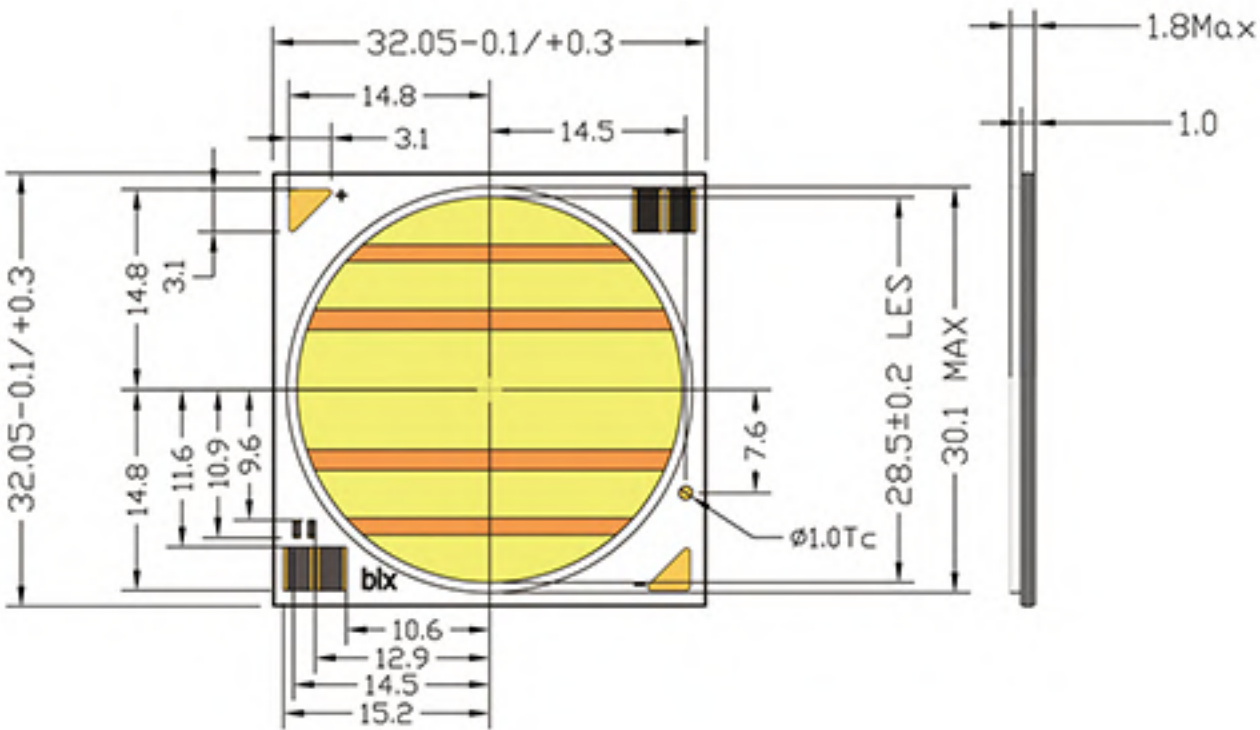
Vesta DW 13



Vesta DW 15



Vesta DW 18



Vesta DW 29

Vesta® SE Series



Product Introduction

Vesta SE Special Edition tunable white arrays are a state-of-the-art COB solution with an integrated holder. Vesta SE's innovative light source system integrates Bridgelux's latest generation COB technology with poke-in wire connectivity that enables solder free installation. Vesta SE LED light sources streamline assembly processes, lower manufacturing cost, simplify luminaire design, improve light quality and increase design flexibility.

Features

- ✓ Vesta Tunable White and Dim-To-Warm Arrays with integrated holder
- ✓ Poke-in connectivity, 20-24 AWG, 0.2 - 0.5 mm2
- ✓ Zhaga compatible mounting holes
- ✓ Alignment holes for precise secondary optics mounting
- ✓ Mechanically compatible with Vero SE
- ✓ CRI90 and CRI98 Thrive

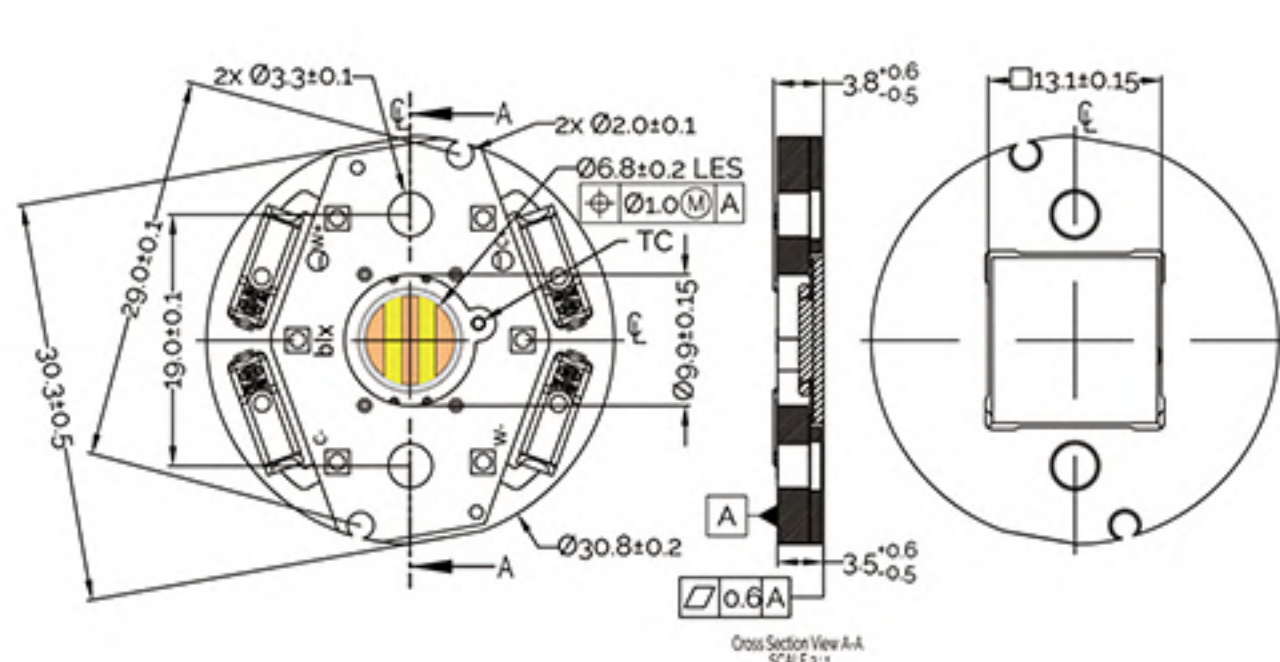
Benefits

- ✓ Robust and reliable solder connection between array and holder
- ✓ Plug and Play compatibility with Vesta Flex Dual Channel Driver and controls
- ✓ Simplified manufacturing and assembly process
- ✓ Simple alignment of secondary optics
- ✓ Easy integration into existing product designs using single color arrays
- ✓ Natural and vivid color rendering

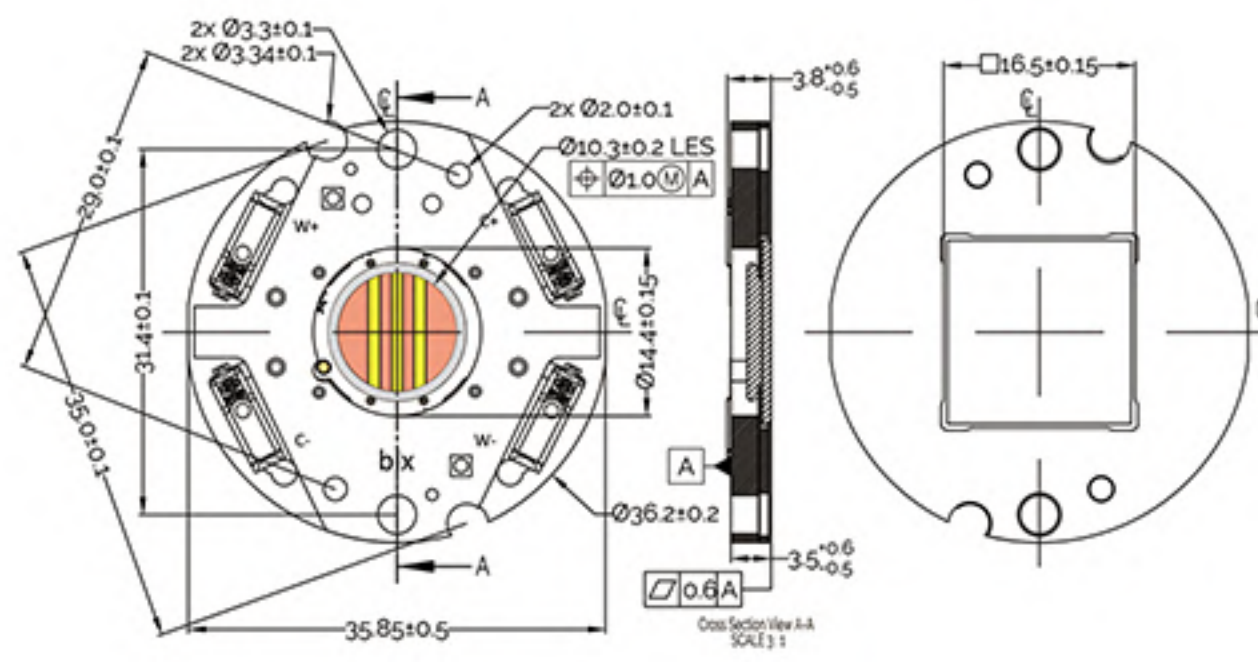
Product Specifications

Product Series	Product	Part Number	PCB Size (mm)	SPI	LES (mm)	Typical Vf (V)	If Range (Typical to Max) (mA)	Peak Efficacy at the highest CCT, Tc=25°C (lm/W)	Power Range (W) (typical to Max)	Tunable CCT Range and Options	CRI Options
Vesta SE NTW Series	NTW6	BXRV-TR-xxxxG-06A0-B-2x-S2	30.8	100	6.8	36.0	150-200	102	5.4-7.4	2700-5000K 2700-6500K 1800-4000K	90
	NTW9	BXRV-TR-xxxxG-10A0-A-2x-S2	36.2	100	10.3	18.0	500-700	112	9-13.0	2700-5000K 2700-6500K 1800-4000K	
	NTW9	BXRV-TR-xxxxG-10A0-B-2x-S2	36.2	100	10.3	34.8	250-480	118	8.7-18	2700-5000K 2700-6500K 1800-3000K 1800-4000K	
	NTW13	BXRV-TR-xxxxG-20A0-A-2x-S2	36.2	100	14.3	36.3	500-700	117	18.2-26.6	2700-5000K 2700-6500K 1800-3000K 1800-4000K	
	NTW15	BXRV-TR-xxxxG-30A0-A-2x-S2	45	50	16.3	35.5	650-950	120	23.1-34.5	2700-5000K 2700-6500K	
	NTW18	BXRV-TR-xxxxG-40A0-A-2x-S2	45	50	19.6	35.3	900-1400	125	31.7-49.0	2700-5000K 2700-6500K 1800-4000K	
	NTW22	BXRV-TR-xxxxG-65A0-A-2x-S2	45	50	23.0	53.0	900-1400	124	47.7-73.9	2700-5000K 2700-6500K	
	NTW29	BXRV-TR-xxxxG-1KA0-A-2x-S2	49.2	50	28.5	52.4	1050-1800	133	55-96.1	2700-5000K 2700-6500K	
Vesta SE DW Series	DW6	BXRV-DR-18xxx-0600-A-1x-S2	30.8	100	7.1	17.0	350-420	98	6-7.9	1800-2700K 1800-3000K	90
	DW9	BXRV-DR-18xxx-1000-G-1x-S2	30.8	100	9.1	17.0	250-300	103	4.3-5.5		90/95
	DW9	BXRV-DR-18xxx-1000-A-1x-S2	30.8	100	9.1	17.0	350-420	103	6-7.9		
	DW9	BXRV-DR-18xxx-1000-B-1x-S2	30.8	100	9.1	33.8	350-420	103	11.8-15.8		
	DW13	BXRV-DR-18xxx-2000-A-1x-S2	36.2	100	13.5	33.5	600-720	111	20.1-26.4		
	DW15	BXRV-DR-18xxx-3000-A-1x-S2	36.2	100	15.7	34.1	950-1050	111	32.4-39.6		
	DW18	BXRV-DR-18xxx-4000-A-1x-S2	45	50	18.3	34.5	1290-1400	112	44.5-51.2		
	DW29	BXRV-DR-18xxx-1K00-A-1x-S2	49.2	50	28.5	46.5	2350-2500	119	109.2-123.2		

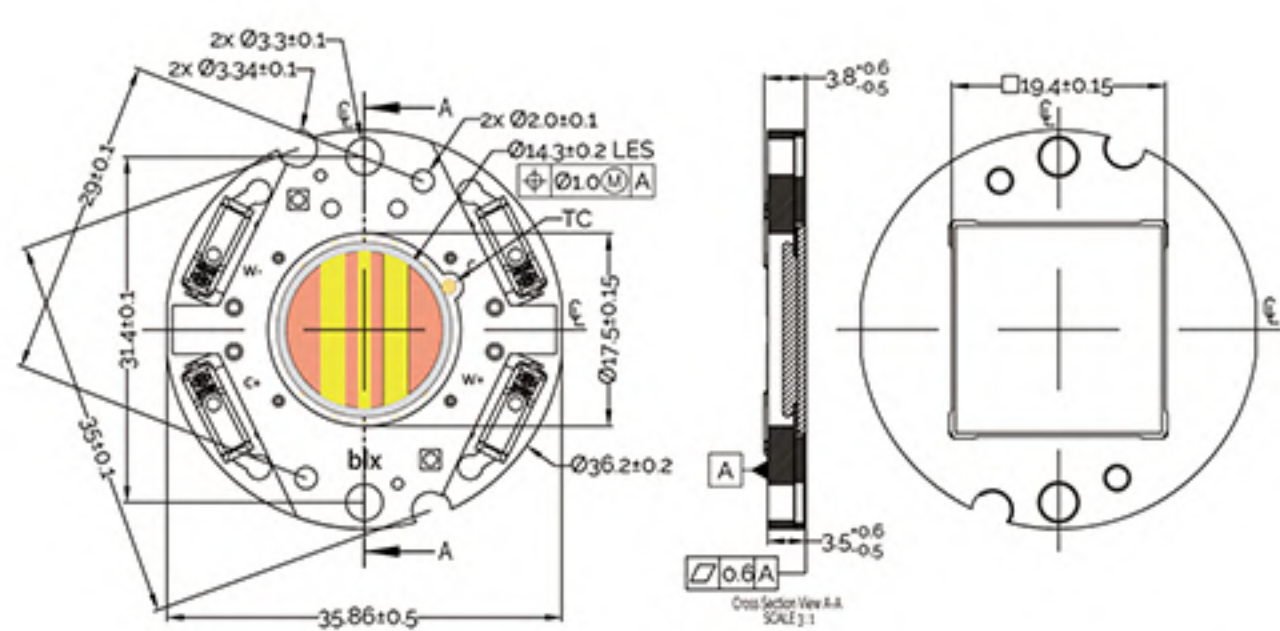
Vesta® SE Series



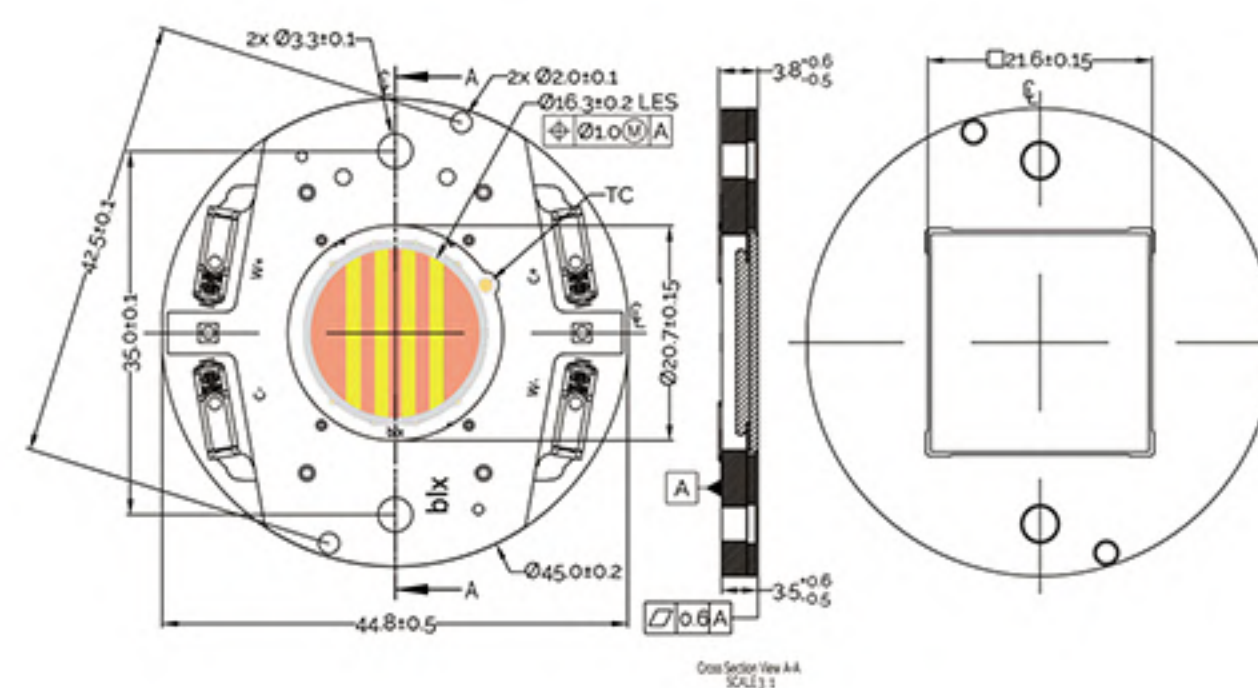
Vesta SE NTW 6



Vesta SE NTW 9

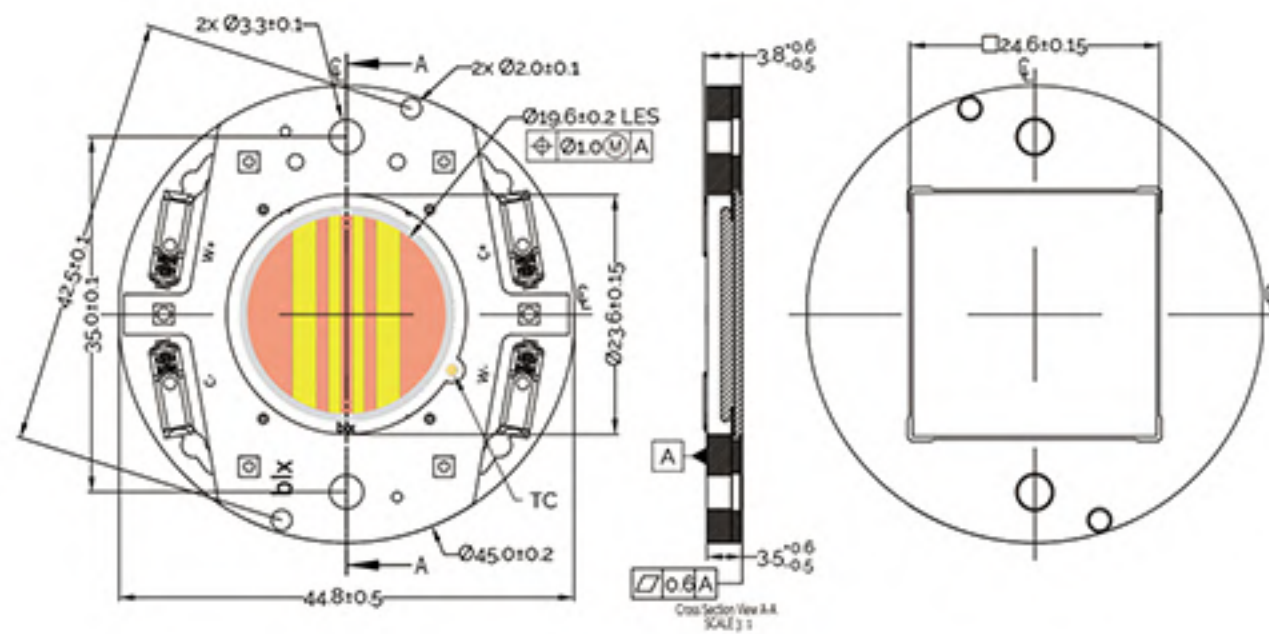


Vesta SE NTW 13

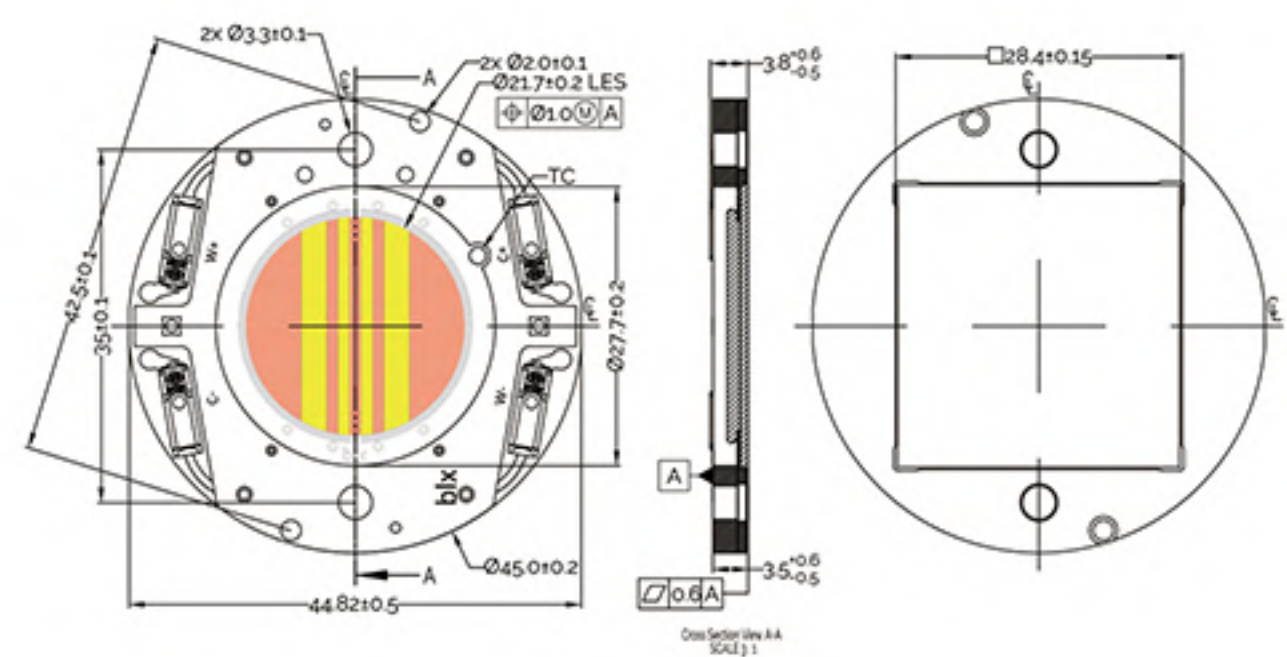


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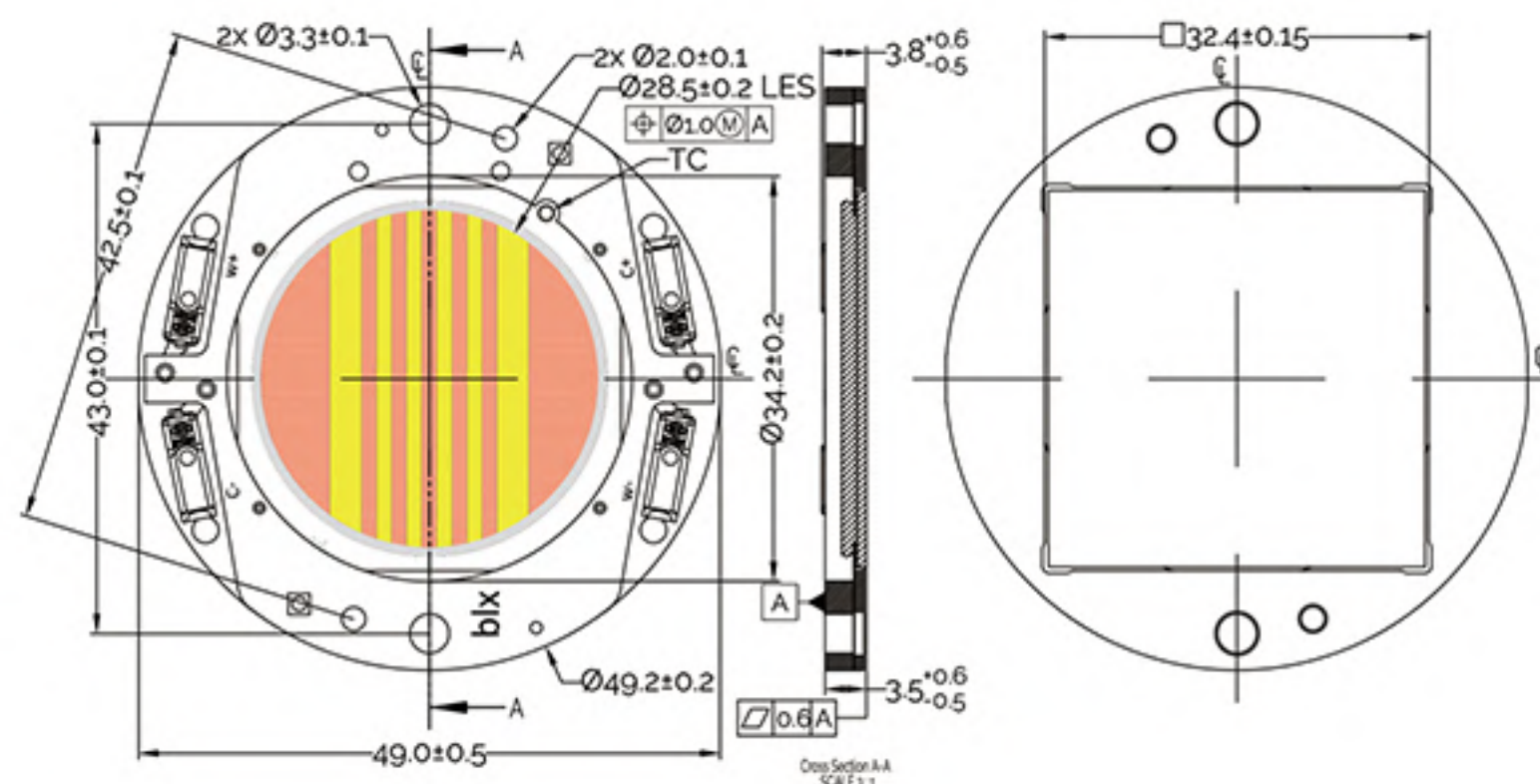
Product Drawings



Vesta SE NTW 18

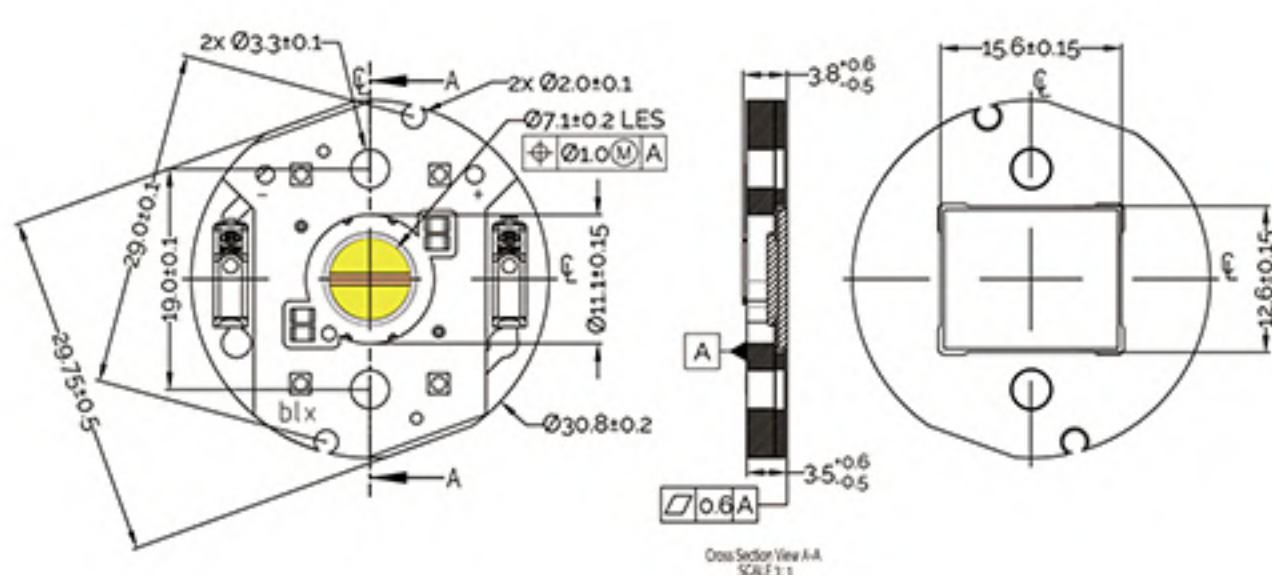


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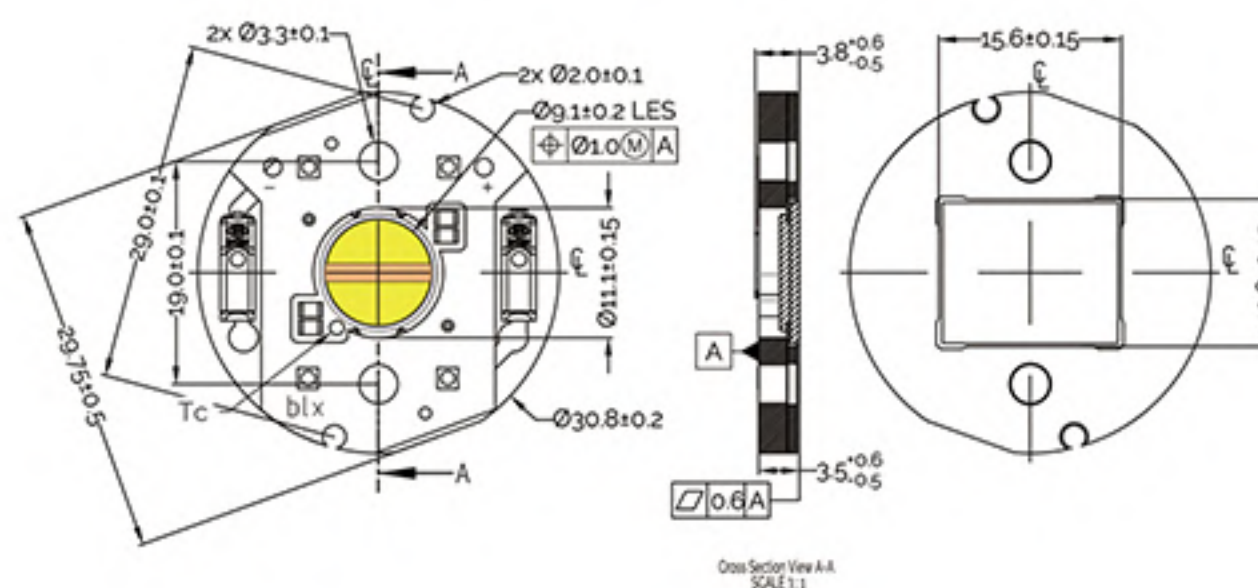


Vesta SE NTW 29

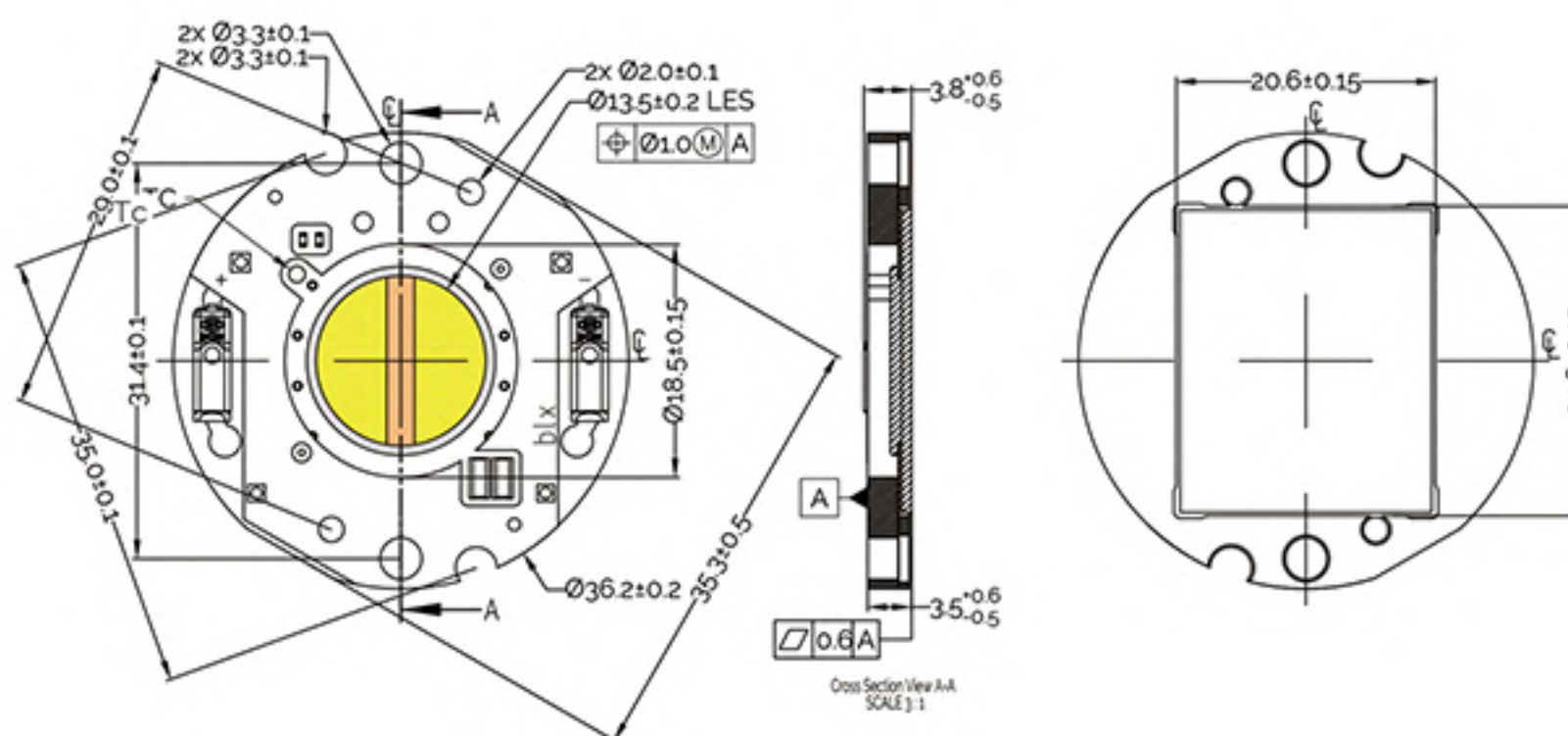
Vesta® SE Series



Vesta SE DW 6

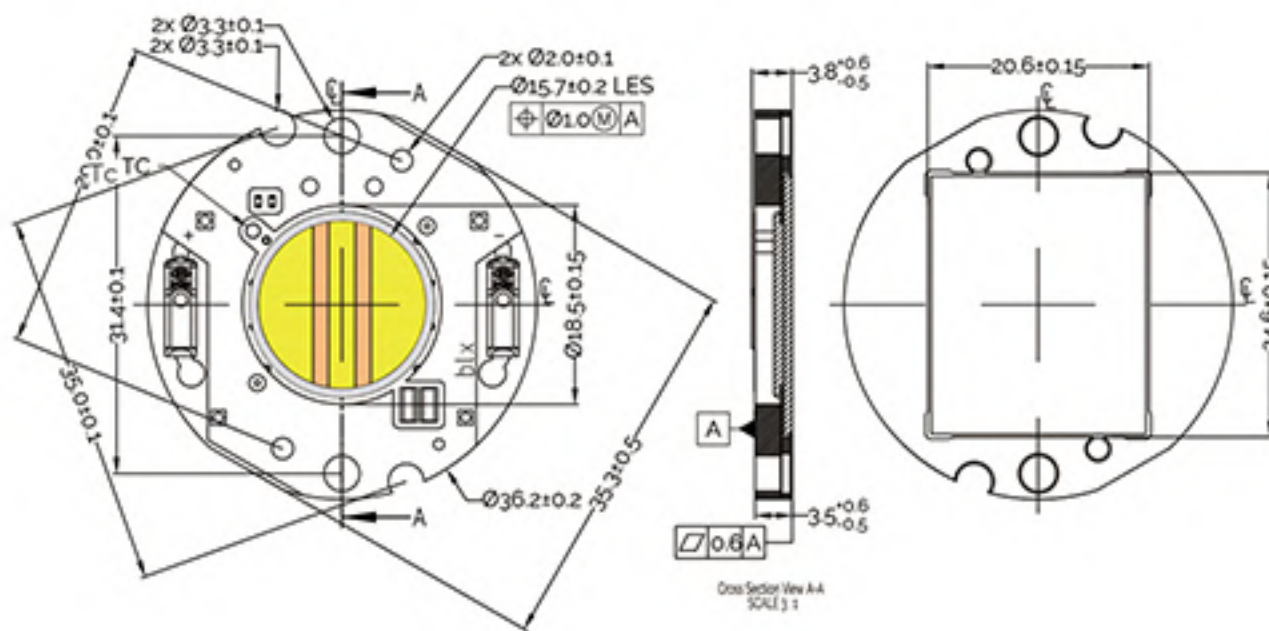


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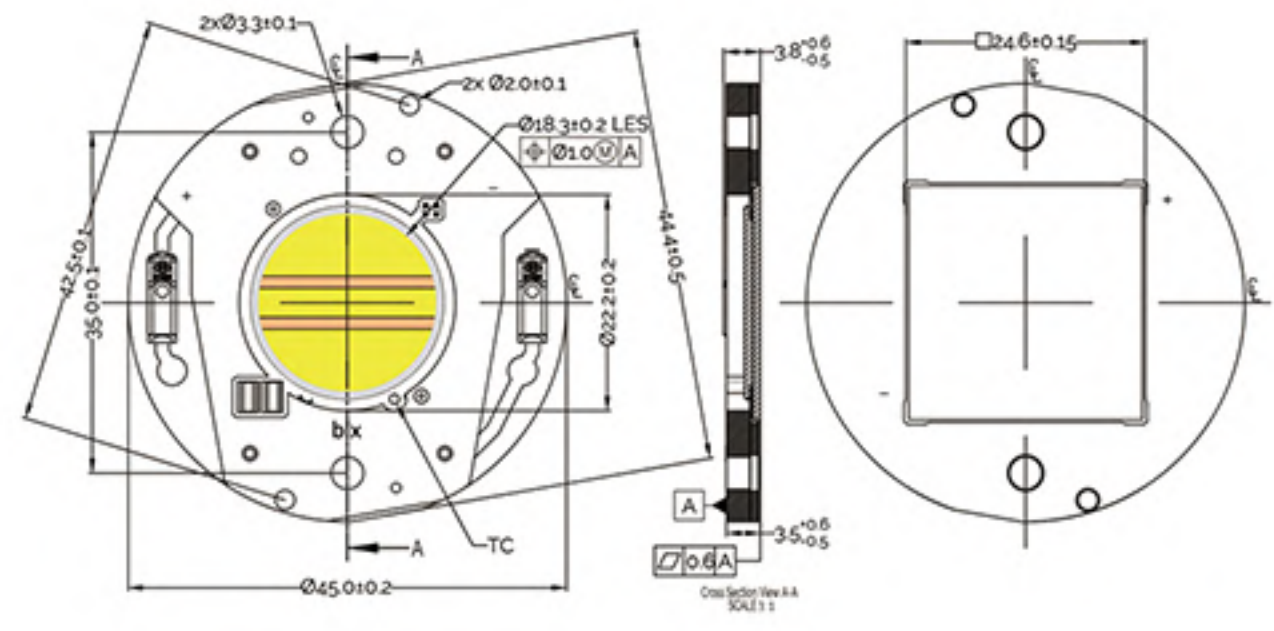


Vesta SE DW 13

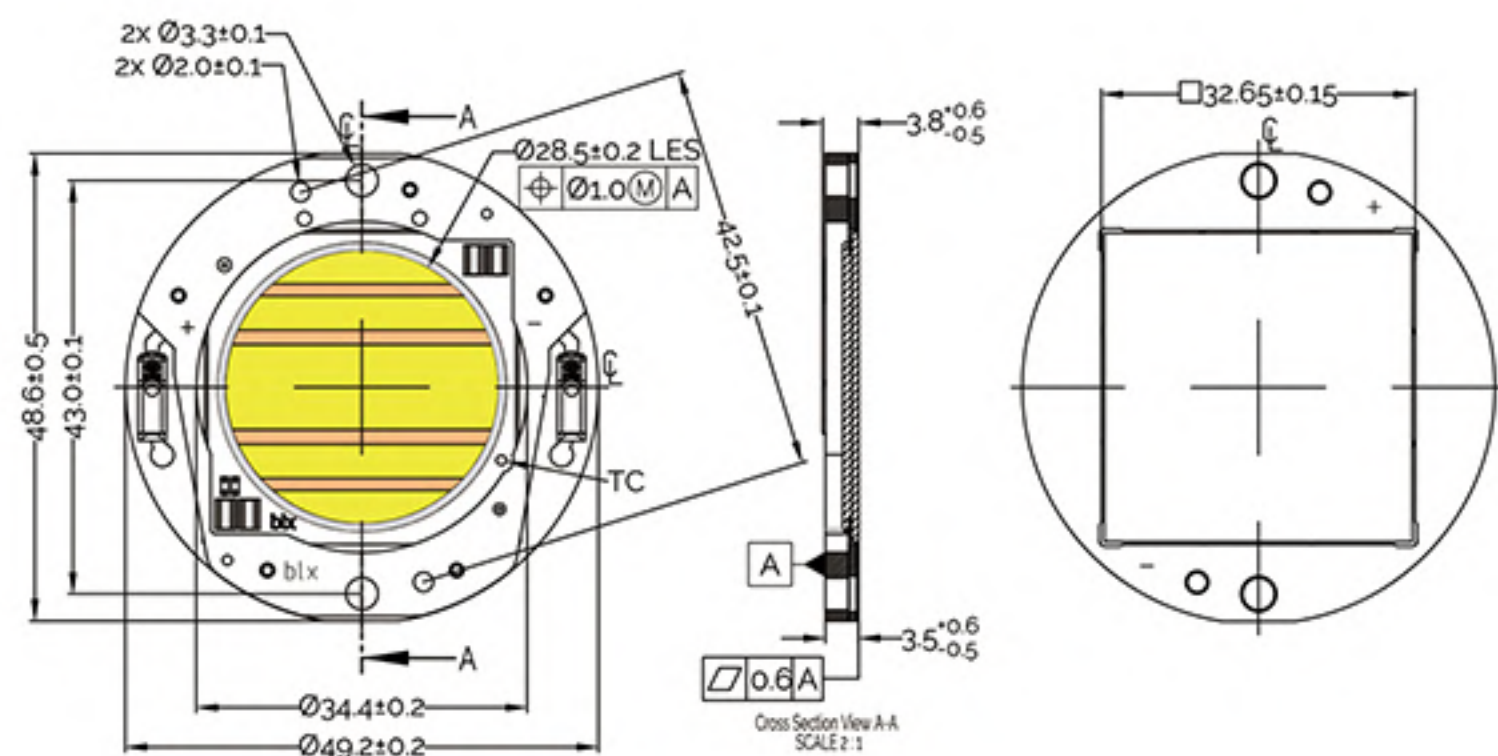
Product Drawings



Vesta SE DW 15



Vesta SE DW 18



Vesta SE DW 29

Vero® Series



Product Introduction

Vero Series is our flagship LED array product with Bridgelux technology that gives customers a competitive advantage. Vero simplifies luminaire design and manufacturing by integrating a holder into the array, along with a port for a wire harness, so soldering is not required.

Vero Chip on Board (COB) LED arrays are available in four LES configurations, engineered to enable new degrees of flexibility and reliability over a broad range of electrical currents. The platform delivers high lumen density for exceptional beam control and precision lighting, along with 2 and 3 SDCM color control standard for clean, uniform illumination.

Features

- ✓ Onboard connector port
- ✓ Market-leading efficacy, up to 185 lm/W typical
- ✓ 1,000 to 21,000 typical lumen packages
- ✓ 36V across a variety of form factors
- ✓ Expansive color portfolio: 65-97 CRI, Class A and application-specific color points
- ✓ Thermally isolated solder pads
- ✓ Select SKUs meet DLC Premium (Outdoor-Mid Output) requirements under certain system conditions

Benefits

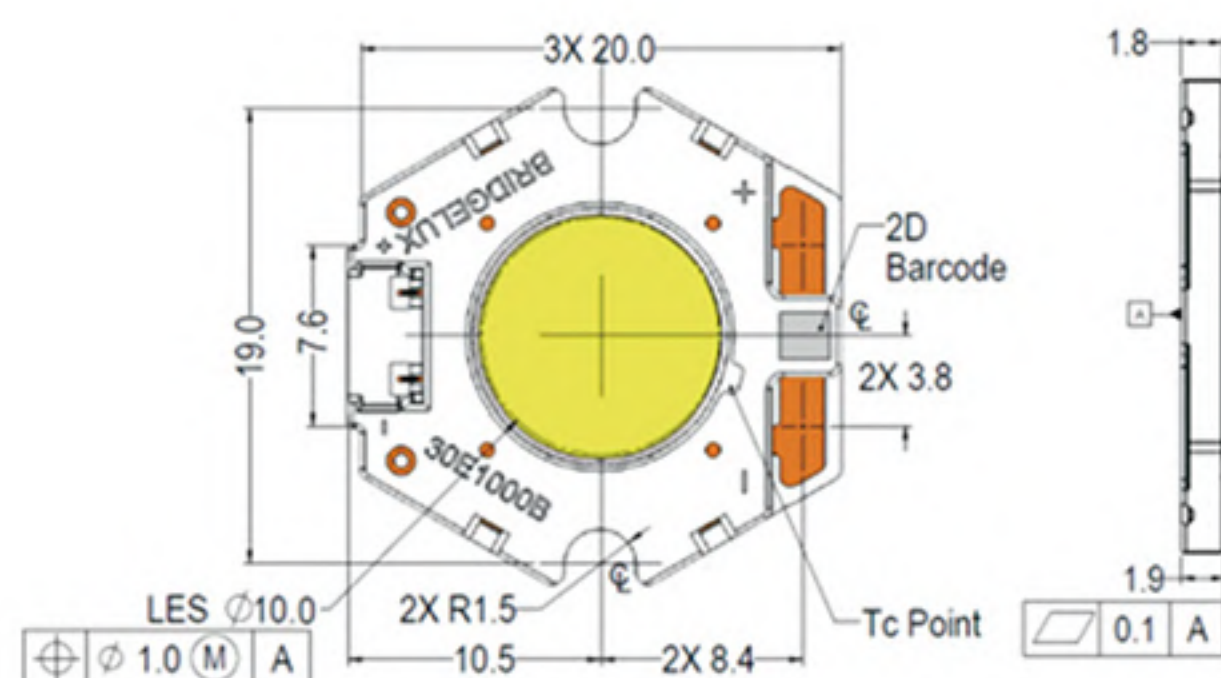
- ✓ Solderless connectivity enables plug & play installation
- ✓ True color reproduction
- ✓ Pure, bright and consistent white light
- ✓ Industry standard electrical compatibility
- ✓ General lighting to high-end retail & luxury applications
- ✓ Facilitates soldering

Product Specifications

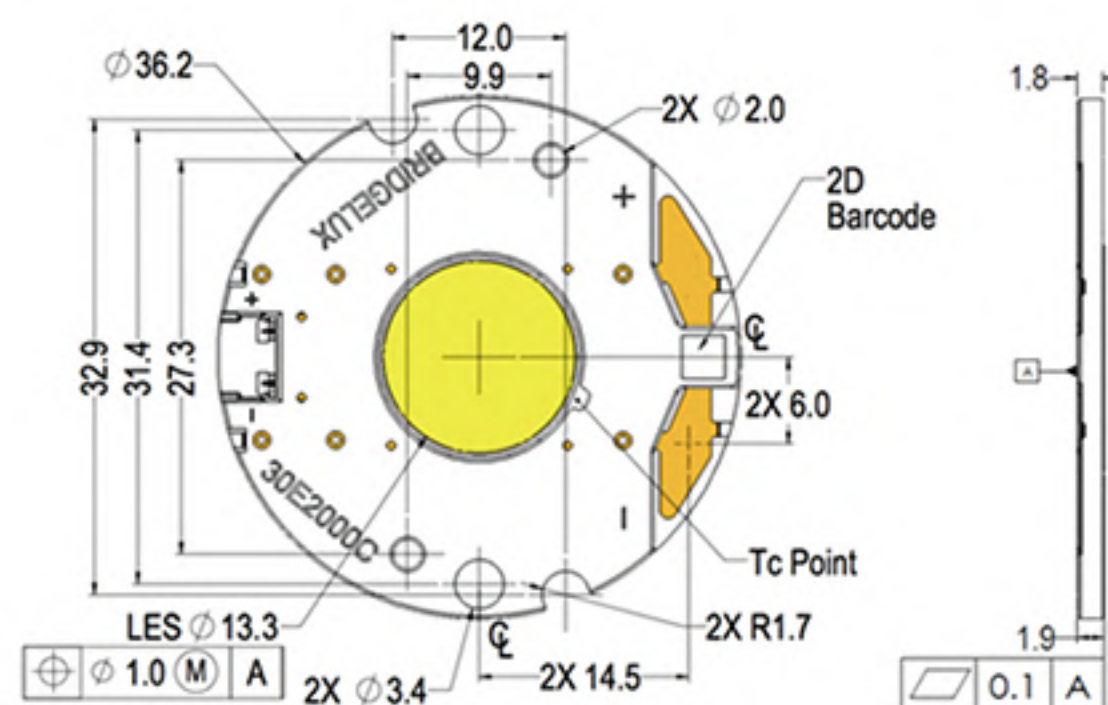
Product Series	Product	Part Number	Product Size (mm)	SPI	LES (mm)	Typical Vf (V)	If Range (Typical to Max) (mA)	Typical Efficacy (lm/W) (3000K 80CRI)	Power Range (W) (typical to Max)	CCT Options	CRI Options
Vero Series Gen8	Vero 10B	BXRC-xxx1000-B-8x	20x20x20	200	10.0	34.2	200-500	178	6.8-18.7	2700K 3000K 3500K 4000K 5000K 5700K 6500K	70/80/90/95
	Vero 10C	BXRC-xxx1000-C-8x				30.7	300-1000		9.2-35.0		
	Vero 10D	BXRC-xxx1000-D-8x				24.9	250-1000		6.2-29.1		
	Vero 13B	BXRC-xxx2000-B-8x	Φ36.2	100	13.3	33.4	350-1250	178	11.7-47.0		
	Vero 13C	BXRC-xxx2000-C-8x				33.4	500-1750		16.7-65.7		
	Vero 13D	BXRC-xxx2000-D-8x				30.9	400-1250		12.3-42.7		
	Vero 18B	BXRC-xxx4000-B-8x	Φ36.2	100	18.5	33.9	700-2000	180	23.7-75.1		
	Vero 18C	BXRC-xxx4000-C-8x				33.9	1050-3000		35.6-112.6		
	Vero 18D	BXRC-xxx4000-D-8x				28.2	850-2500		23.9-78.3		
	Vero 29B	BXRC-xxx10K0-B-8x	Φ49.2	50	29.1	50.2	1400-4750	185	70.3-268.8		
	Vero 29C	BXRC-xxx10K0-C-8x				66.7	1300-4750		86.7-360.1		
	Vero 29D	BXRC-xxx10K0-D-8x				36.4	1700-5500		61.9-224.1		
Vero Series Gen7	Vero 10B	BXRC-xxx1000-B-7x	20x20x20	200	9.9	34.8	270-540	165	9.4-19.5	2700K 3000K 3500K 4000K 5000K 5700K 6500K	70/80/90/95
	Vero 10C	BXRC-xxx1000-C-7x				34.8	360-720		12.5-26.0		
	Vero 10D	BXRC-xxx1000-D-7x				26.0	350-700		9.1-19.9		
	Vero 13B	BXRC-xxx2000-B-7x	Φ36.2	100	13.2	34.8	450-900	170	15.7-32.5		
	Vero 13C	BXRC-xxx2000-C-7x				34.8	630-1260		21.9-45.5		
	Vero 13D	BXRC-xxx2000-D-7x				31.8	500-1000		15.9-34.4		
	Vero 18B	BXRC-xxx4000-B-7x	Φ36.2	100	18.4	34.8	900-1800	170	31.3-65.1		
	Vero 18C	BXRC-xxx4000-C-7x				34.8	1170-2340		40.7-84.6		
	Vero 18D	BXRC-xxx4000-D-7x				29.0	1050-2100		30.5-66.2		
	Vero 29B	BXRC-xxx10K0-B-7x	Φ49.2	50	29.2	52.0	1800-3600	170	93.6-201.0		
	Vero 29C	BXRC-xxx10K0-C-7x				69.4	1710-3420		118.7-254.6		
	Vero 29D	BXRC-xxx10K0-D-7x				37.6	2100-4200		79-172.9		

Vero® Series

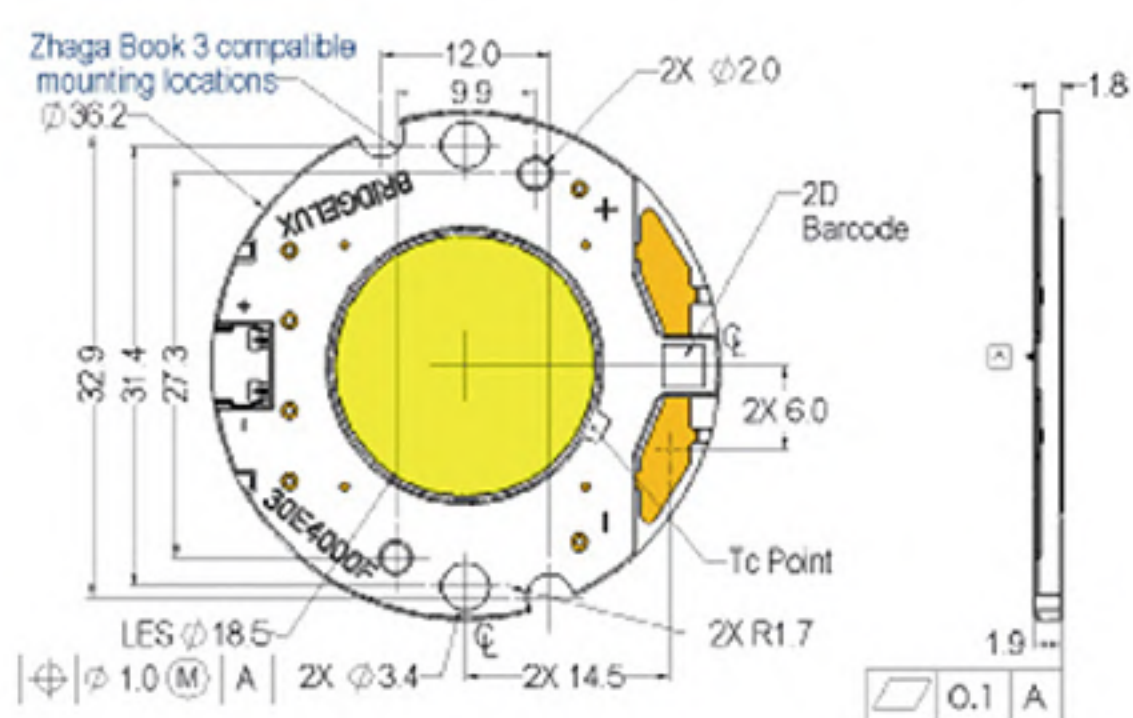
Product Drawings



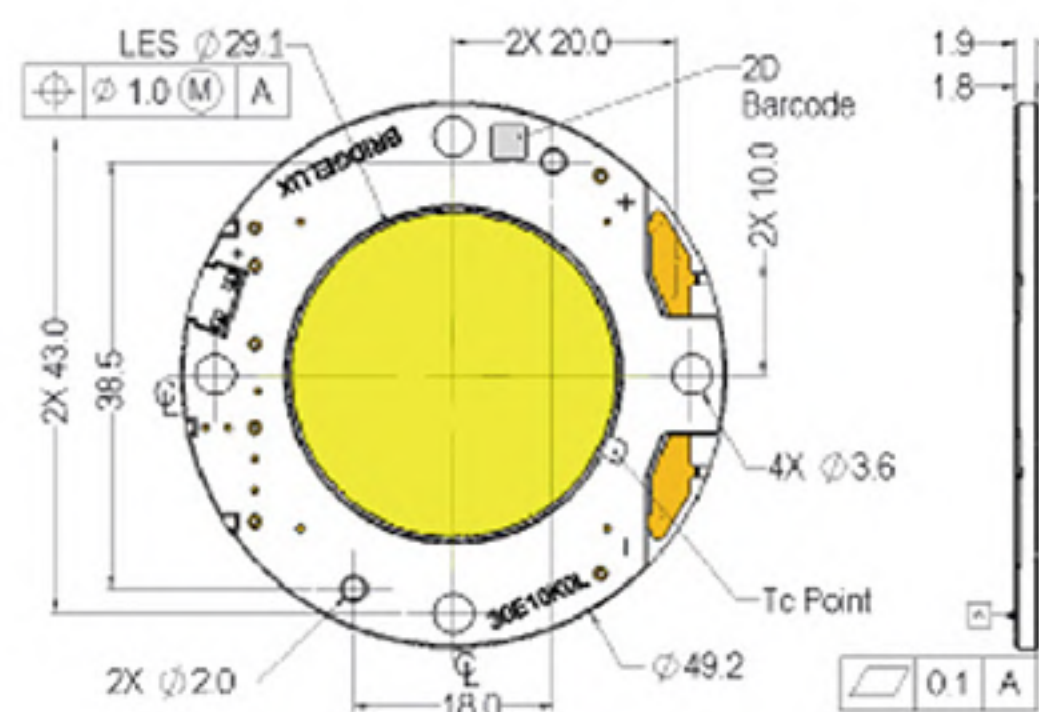
Vero 10



Vero 13



Vero 18



Vero 29

Vero® SE Series



Product Introduction

Vero SE is a state-of-the-art COB solution with revolutionary advancements in LED integration technology. Vero SE's innovative light source system integrates Bridgelux's seventh generation COB technology with poke-in wire connectivity that enables solder free installation. Vero SE LED light sources streamline assembly processes, lower manufacturing cost, simplify luminaire design, improve light quality and increase design flexibility.

Vero SE poke-in connectivity simplifies manufacturing and assembly processes by eliminating the need to solder. Secondary connector and holder components are not required, allowing for rapid integration of arrays into fixtures and an efficient field replaceable solution.

Features

- ✓ Poke-in connectivity
- ✓ No exposed solder pads or electrical connections
- ✓ Efficacy of up to 183 lm/W typical
- ✓ 1,000 to 21,000 typical lumen packages
- ✓ Industry standard 36V across a variety of form factors
- ✓ Expansive color portfolio: 65-97 CRI, Class A and application specific color points
- ✓ Select SKUs meet DLC Premium (Outdoor-Mid Output) requirements under certain system conditions

Benefits

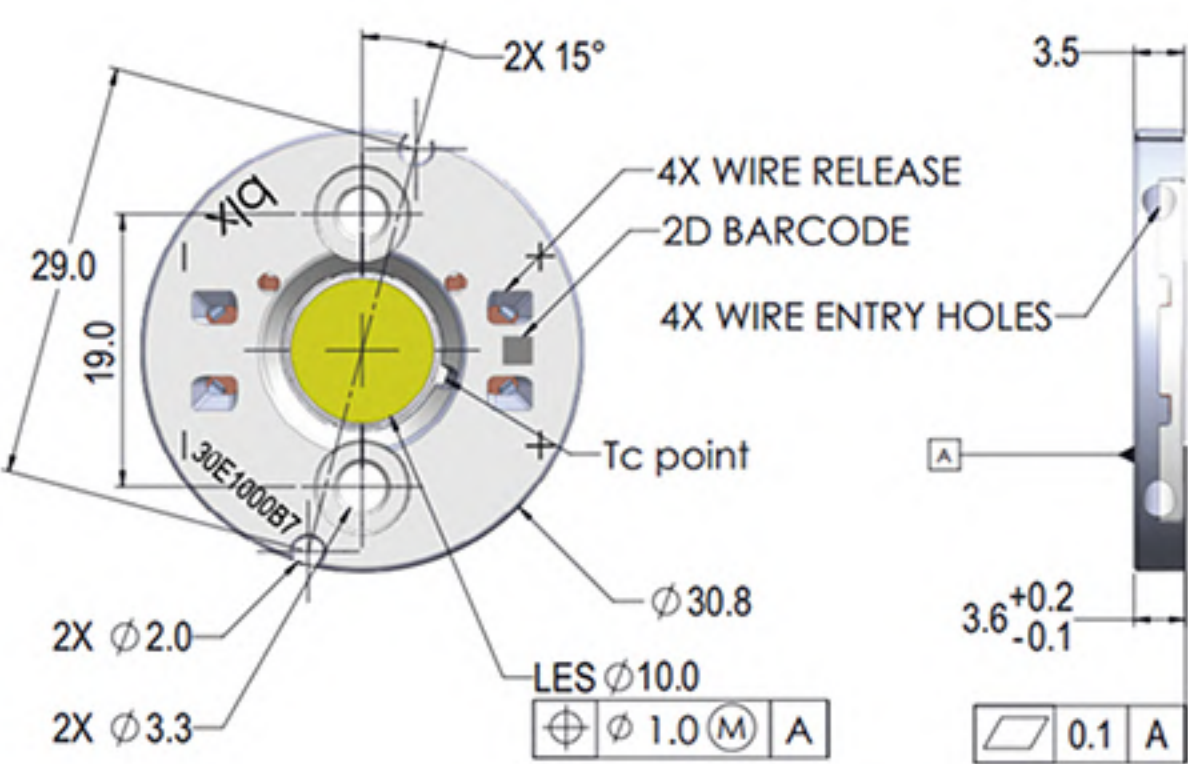
- ✓ Poke-in connectivity enables solderless, connector free installation
- ✓ Ability to configure multiple arrays in series and parallel reduces customer driver costs
- ✓ High-quality, true color reproduction
- ✓ Flexibility in design optimization
- ✓ Industry standard electrical compatibility
- ✓ General lighting to high-end retail and luxury applications

Vero® SE Series

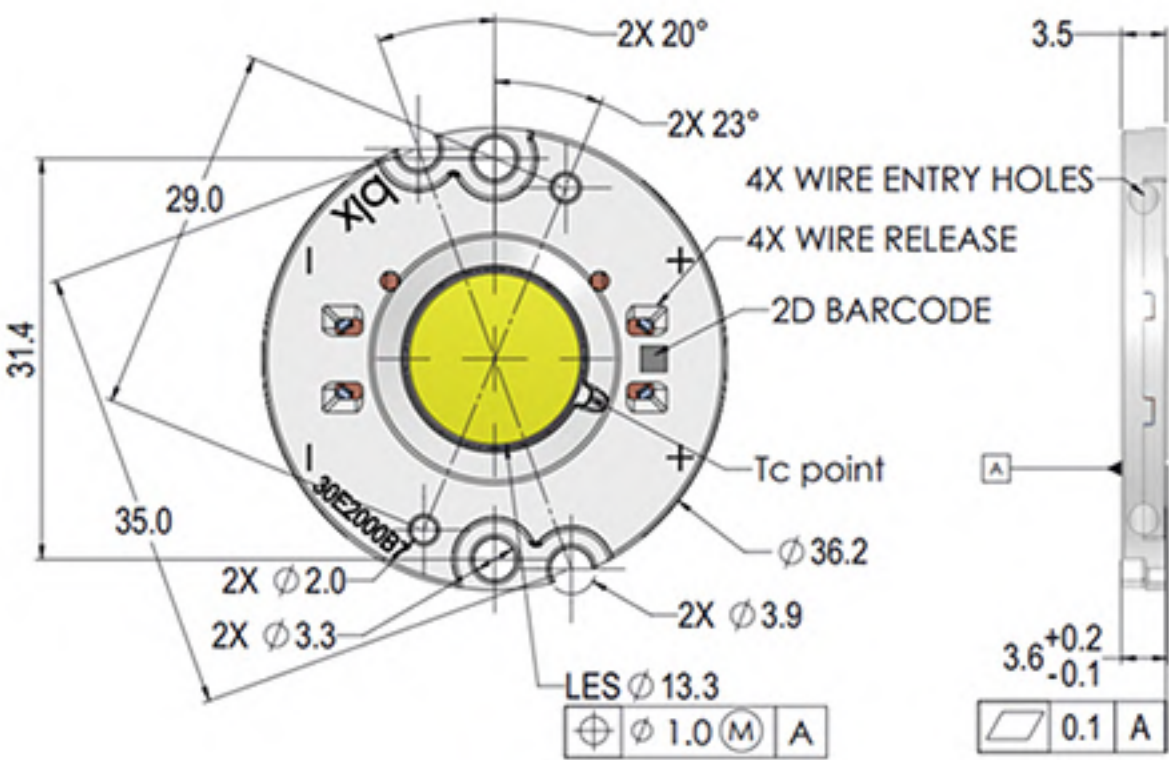
Product Specifications

Product Series (Series)	Product	Part Number	PCB Size (mm)	SPI	LES (mm)	Typical Vf (V)	If Range (Typical to Max) (mA)	Typical Efficacy (lm/W) (3000K 80CRI)	Power Range (W) (typical to Max)	CCT Options	CRI Options
Vero SE Series Gen8	Vero SE 10B	BXRC-xxx1000-B-8x-SE	Φ30.8	100	10.0	34.2	200-500	173	6.8-18.7	2700K 3000K 3500K 4000K 5000K 5700K 6500K	70/80/90/95
	Vero SE 10C	BXRC-xxx1000-C-8x-SE				30.7	300-1000		9.2-35.0		
	Vero SE 10D	BXRC-xxx1000-D-8x-SE				24.9	250-1000		6.2-29.1		
	Vero SE 13B	BXRC-xxx2000-B-8x-SE	Φ36.2	100	13.3	33.4	350-1250	175	11.7-47.0		
	Vero SE 13C	BXRC-xxx2000-C-8x-SE				33.4	500-1750		16.7-65.7		
	Vero SE 13D	BXRC-xxx2000-D-8x-SE				30.9	400-1250		12.3-42.7		
	Vero SE 18B	BXRC-xxx4000-B-8x-SE	Φ36.2	100	18.5	33.9	700-2000	178	23.7-75.1		
	Vero SE 18C	BXRC-xxx4000-C-8x-SE				33.9	1050-3000		35.6-112.6		
	Vero SE 18D	BXRC-xxx4000-D-8x-SE				28.2	850-2500		23.9-78.3		
	Vero SE 29B	BXRC-xxx10K0-B-8x-SE	Φ49.2	50	29.1	50.2	1400-4750	185	70.3-268.8		
	Vero SE 29C	BXRC-xxx10K0-C-8x-SE				66.7	1300-4750		86.7-360.1		
	Vero SE 29D	BXRC-xxx10K0-D-8x-SE				36.4	1700-5500		61.9-224.1		
Vero SE Series Gen7	Vero SE 10B	BXRC-xxx1000-B-7x-SE	Φ30.8	100	9.9	34.8	270-540	160	9.4-20.3	2700K 3000K 3500K 4000K 5000K 5700K 6500K	70/80/90/95
	Vero SE 10C	BXRC-xxx1000-C-7x-SE				34.8	360-720		12.5-27.0		
	Vero SE 10D	BXRC-xxx1000-D-7x-SE				26.0	350-700		9.1-19.9		
	Vero SE 13B	BXRC-xxx2000-B-7x-SE	Φ36.2	100	13.4	34.8	450-900	167	15.7-33.6		
	Vero SE 13C	BXRC-xxx2000-C-7x-SE				34.8	630-1260		21.9-47.0		
	Vero SE 13D	BXRC-xxx2000-D-7x-SE				31.8	500-1000		15.9-34.4		
	Vero SE 18B	BXRC-xxx4000-B-7x-SE	Φ36.2	100	18.4	34.8	900-1800	168	31.3-68.1		
	Vero SE 18C	BXRC-xxx4000-C-7x-SE				34.8	1170-2340		40.7-88.8		
	Vero SE 18D	BXRC-xxx4000-D-7x-SE				29.0	1050-2100		30.5-66.2		
	Vero SE 29B	BXRC-xxx10K0-B-7x-SE	Φ49.2	50	29.2	52.0	1800-3600	170	93.6-201.0		
	Vero SE 29C	BXRC-xxx10K0-C-7x-SE				69.4	1710-3420		118.7-254.6		
	Vero SE 29D	BXRC-xxx10K0-D-7x-SE				37.6	2100-4200		79-172.9		

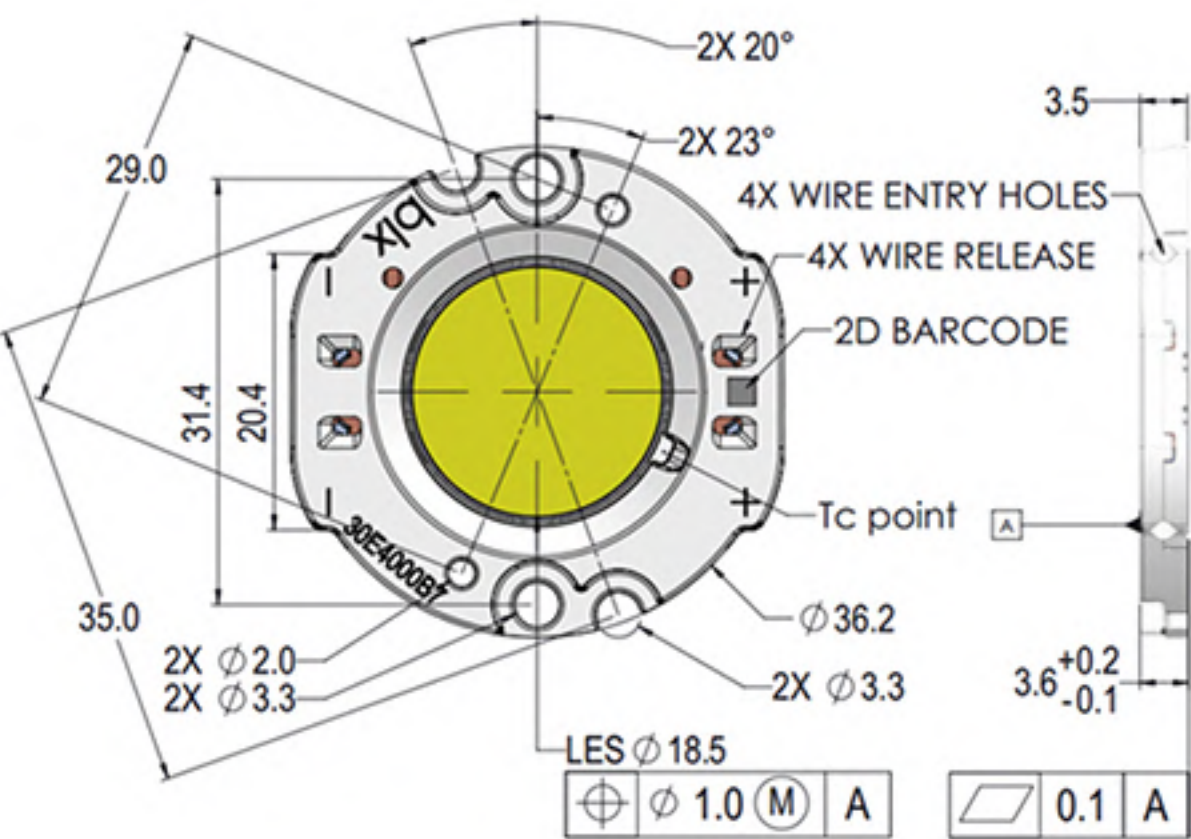
Product Drawings



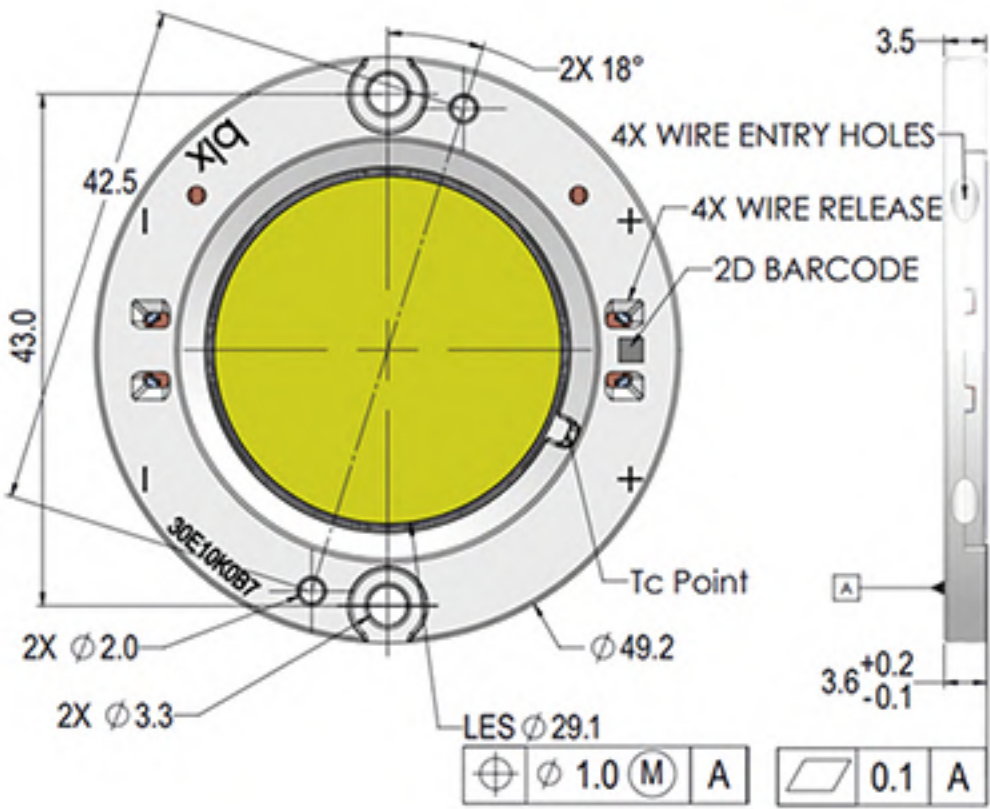
Vero SE 10



Vero SE 13

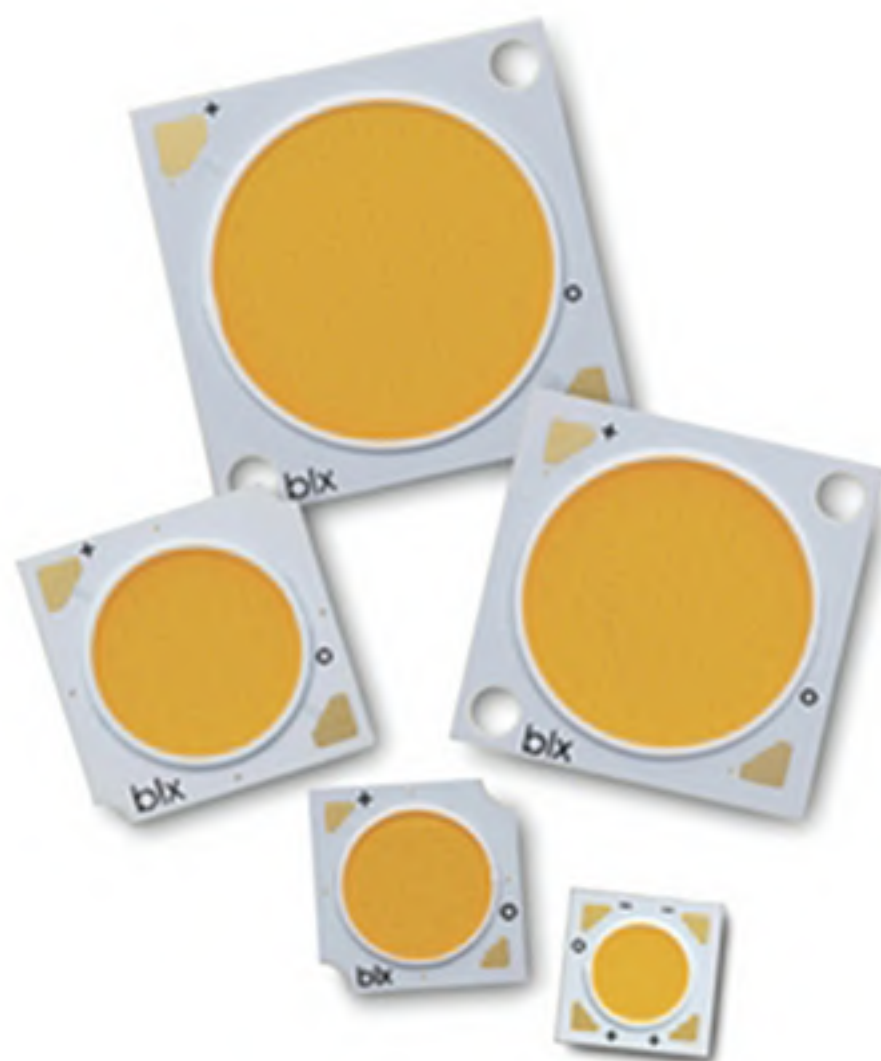


Vero SE 18



Vero SE 29

V Series™



Product Introduction

V Series is a cost-effective light engine that extends the technology and performance of our successful Vero® Series line. Featuring highly-efficient lumen output in small source-size packages, V Series arrays are best for commercial and residential lighting applications where cost and quality are essential. With the V Series platform, you get high-quality lighting products at a competitive price.

Features

- ✓ Designed for cost sensitive applications
- ✓ Efficacy up to 182 lm/W typical
- ✓ 1,000 to 13,000 typical lumen packages
- ✓ 36V across a variety of form factors
- ✓ Expansive color portfolio: 65-97 CRI, Class A and specific color points
- ✓ Select SKUs meet DLC Premium (Outdoor-Mid Output) requirements under certain system conditions

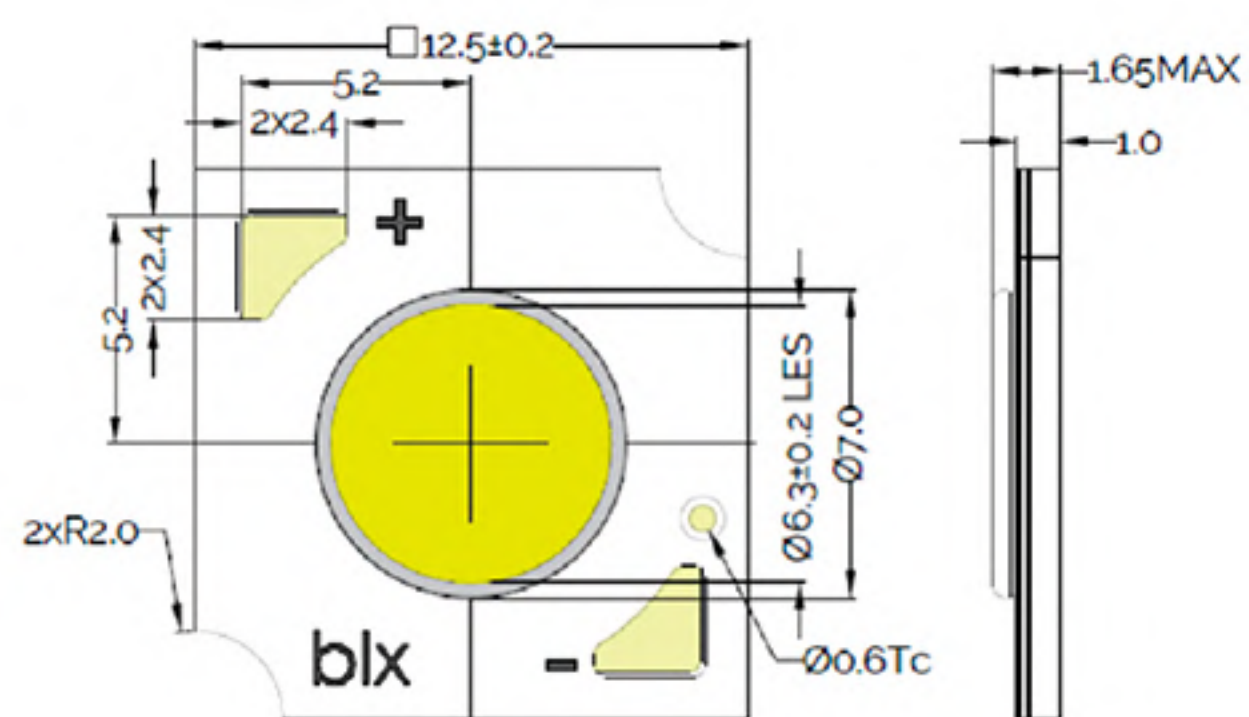
Benefits

- ✓ Superior lumen per dollar
- ✓ True color reproductions
- ✓ Pure, bright and consistent white light
- ✓ Industry standard electrical compatability
- ✓ General lighting to high-end retail luxury applications

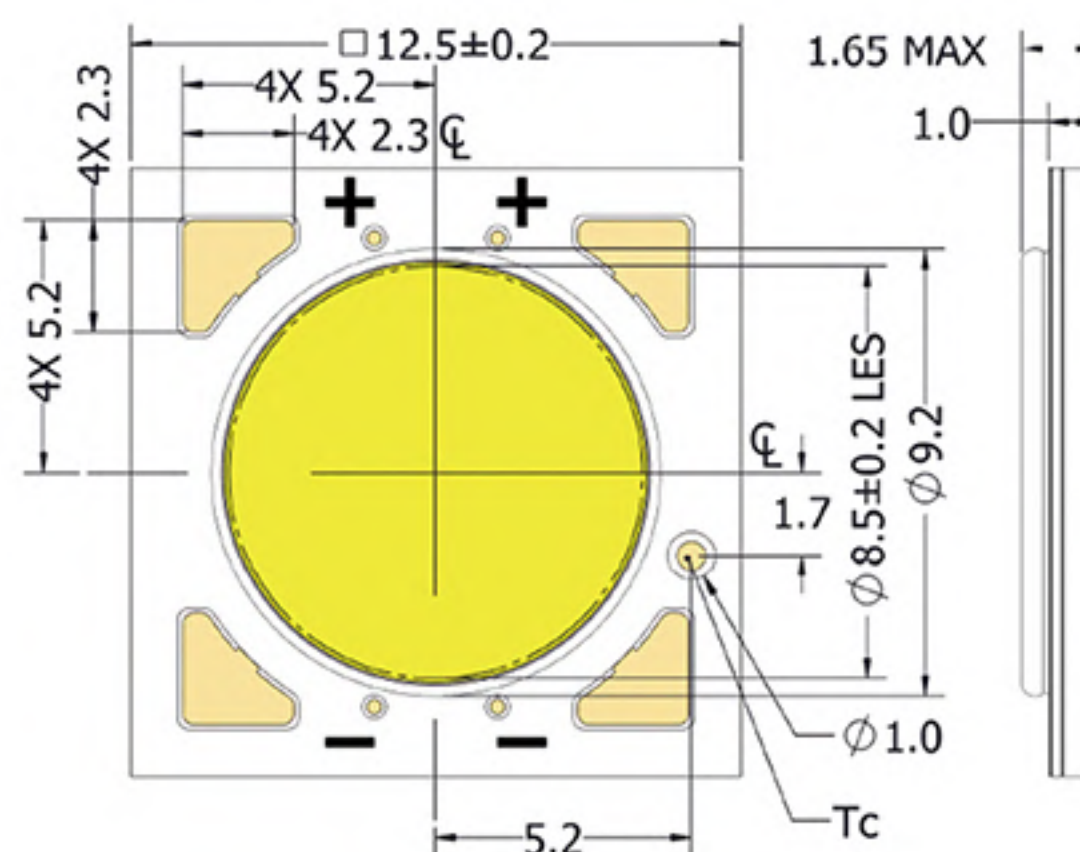
Product Specifications

Product Series	Product	Part Number	PCB Size (mm)	SPI	LES (mm)	Typical Vf (V)	If Range (Typical to Max) (mA)	Typical Efficacy (lm/W) (3000K 80CRI)	Power Range (W) (typical to Max)	CCT Options	CRI Options
V Series Gen 8	V6A	BXRE-xxx0400-A-8x	12.5x12.5	40	6.3	16.9	160-500	172	2.7-9.4	2700K 3000K 3500K 4000K 5000K 5700K 6500K	70/80/90/95
	V6B	BXRE-xxx0400-B-8x				8.4	320-1000		2.7-9.4		
	V6C	BXRE-xxx0400-C-8x				33.7	80-250		2.7-9.4		
	V8D	BXRE-xxx0800-D-8x	12.5x12.5	40	8.5	16.8	300-1000	178	5-18.9		
	V8E	BXRE-xxx0800-E-8x				33.5	150-500		5-18.8		
	V10A	BXRE-xxx1000-A-8x	13.5x13.5	30	10.0	33.5	300-960	172	10.1-35.7		
	V10B	BXRE-xxx1000-B-8x				34.2	200-500	178	6.8-18.7		
	V10C	BXRE-xxx1000-C-8x				30.7	300-1000		9.2-34.3		
	V13B	BXRE-xxx2000-B-8x	19x19	25	14.8	33.4	350-1250	178	11.7-47.0		
	V13C	BXRE-xxx2000-C-8x				33.4	500-1750		16.7-65.7		
	V15D	BXRE-xxx3000-D-8x	21x21	25	15.3	33.7	500-1500	178	16.9-56.4		
	V18B	BXRE-xxx4000-B-8x	24x24	20	19.6	33.9	700-2000	180	23.7-75.1		
	V18C	BXRE-xxx4000-C-8x				33.9	1050-3000		35.6-112.6		
	V22B	BXRE-xxx6500-B-8x	28x28	15	23.3	50.2	950-3250	182	47.7-183.1		
	V22C	BXRE-xxx6500-C-8x				50.7	1200-3500		60.9-195.3		
	V22D	BXRE-xxx6500-D-8x				33.5	1050-3500		35.2-131.3		
V Series Gen 7	V8D	BXRE-xxx0800-D-7x	12.5x12.5	40	8.1	17.3	350-700	165	6.1-12.9	2700K 3000K 3500K 4000K 5000K 5700K 6500K	70/80/90/95
	V8E	BXRE-xxx0800-E-7x				34.7	175-350		6.1-12.9		
	V10B	BXRE-xxx1000-B-7x	13.5x13.5	30	10.2	34.8	270-540	165	9.4-19.5		
	V10C	BXRE-xxx1000-C-7x				34.8	360-720		12.5-26.0		
	V13B	BXRE-xxx2000-B-7x	19x19	25	14.0	34.8	450-900	170	15.6-33.5		
	V13C	BXRE-xxx2000-C-7x				34.8	630-1260		21.9-47.0		
	V18B	BXRE-xxx4000-B-7x	24x24	20	19.2	34.8	900-1800	170	31.4-67.5		
	V18C	BXRE-xxx4000-C-7x				34.8	1170-2340		40.8-87.6		
	V22B	BXRE-xxx6500-B-7x	28x28	15	22.6	52.0	1170-2340	170	60.8-131.5		
	V22C	BXRE-xxx6500-C-7x				52.0	1440-2880		74.9-161.1		
	V22D	BXRE-xxx6500-D-7x				35.0	1400-2800		49.0-105.6		

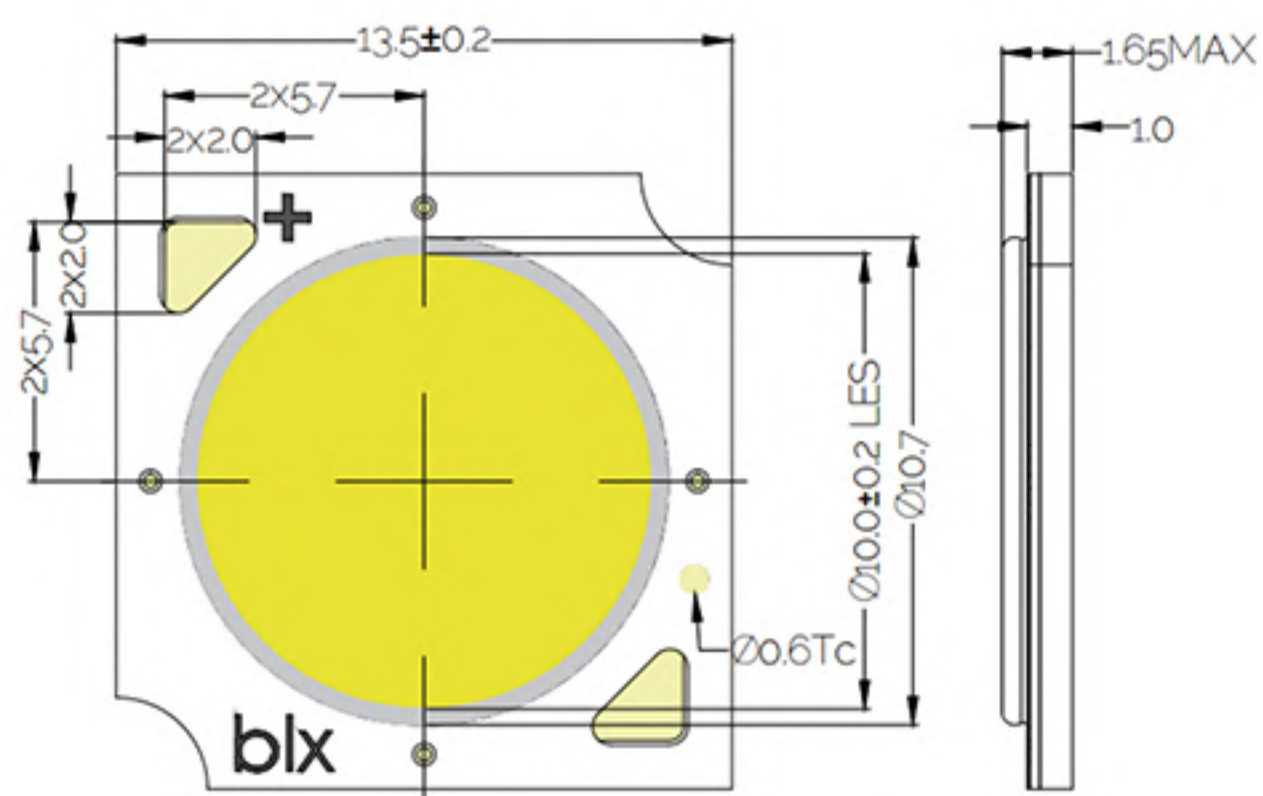
V Series™



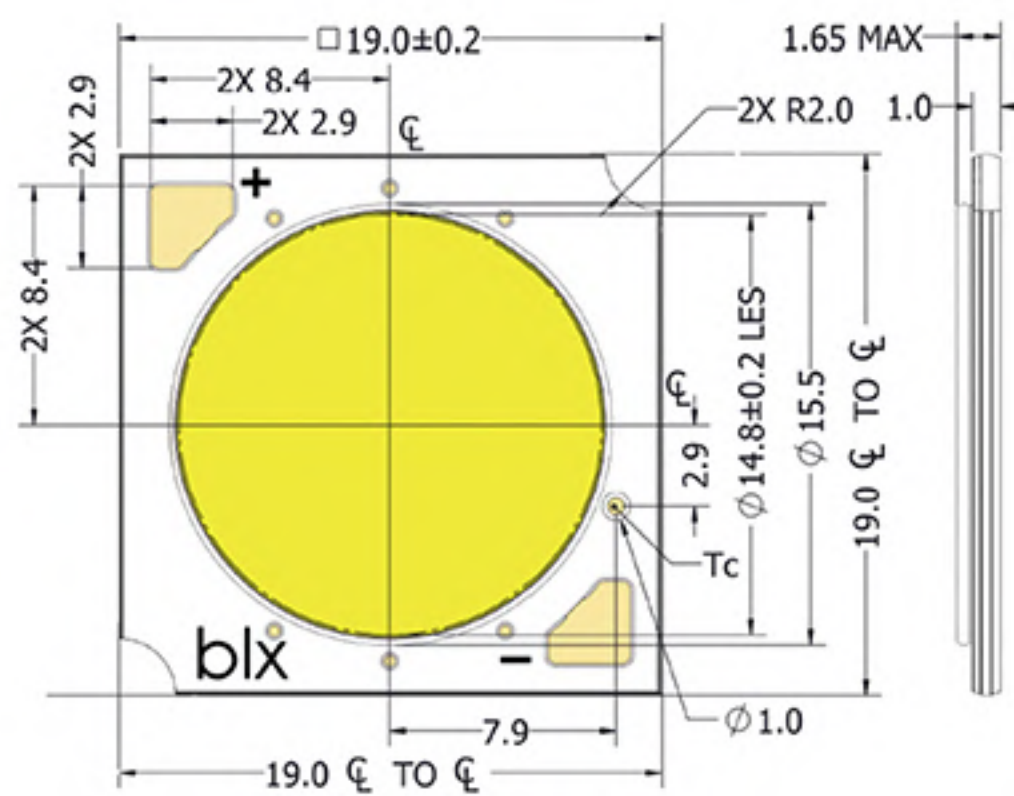
V6 Gen 8



V8 Gen 8

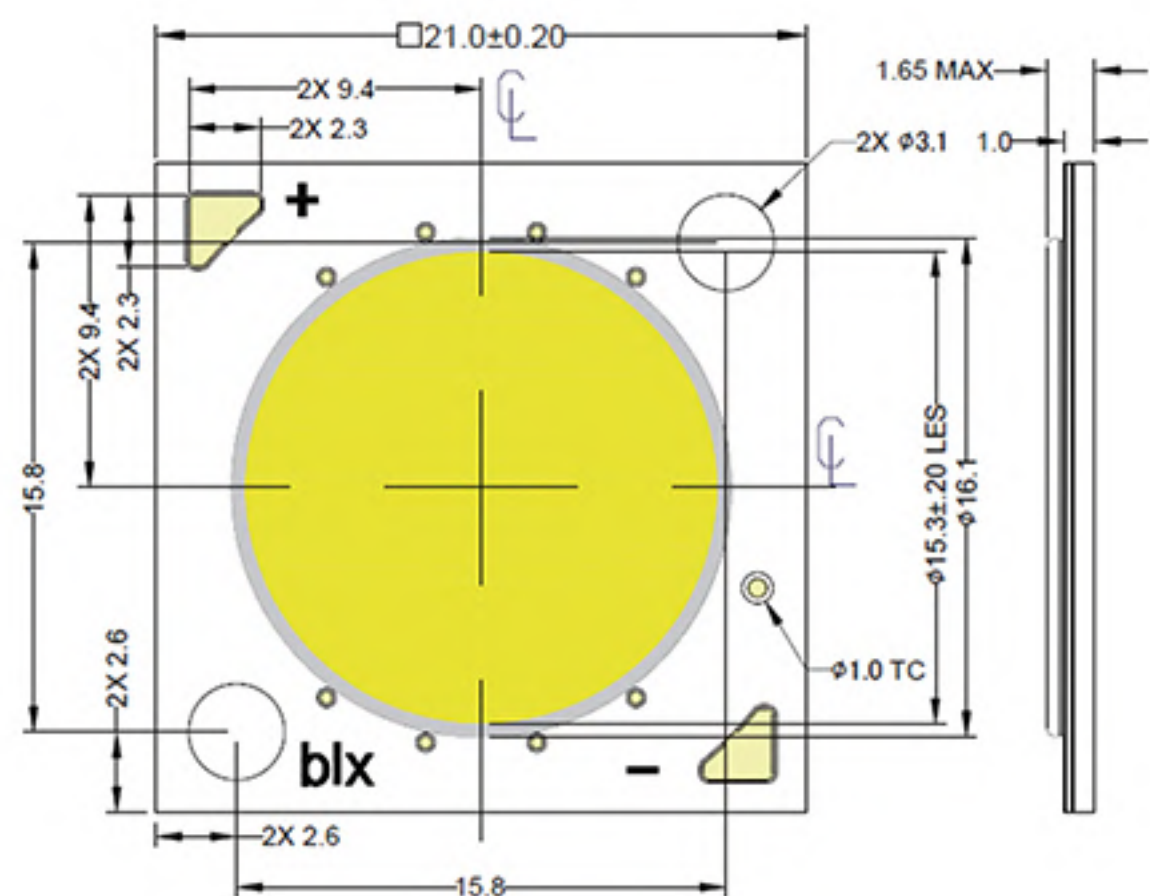


V10 Gen 8

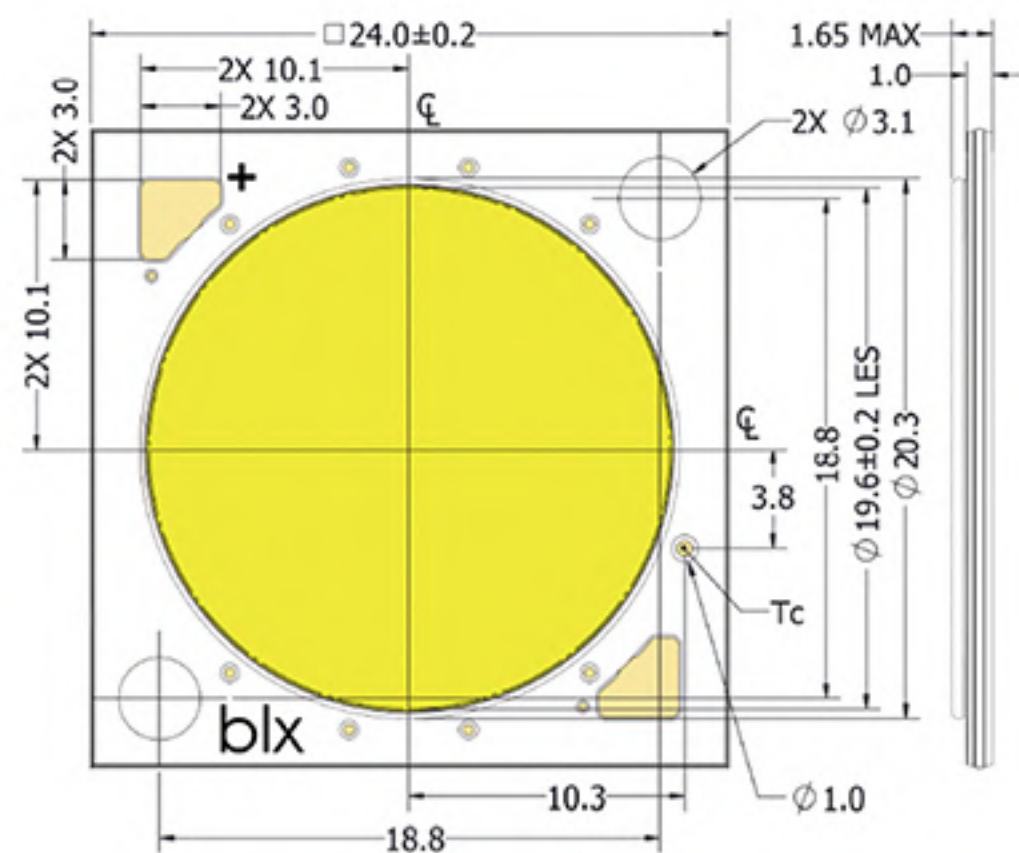


V13 Gen 8

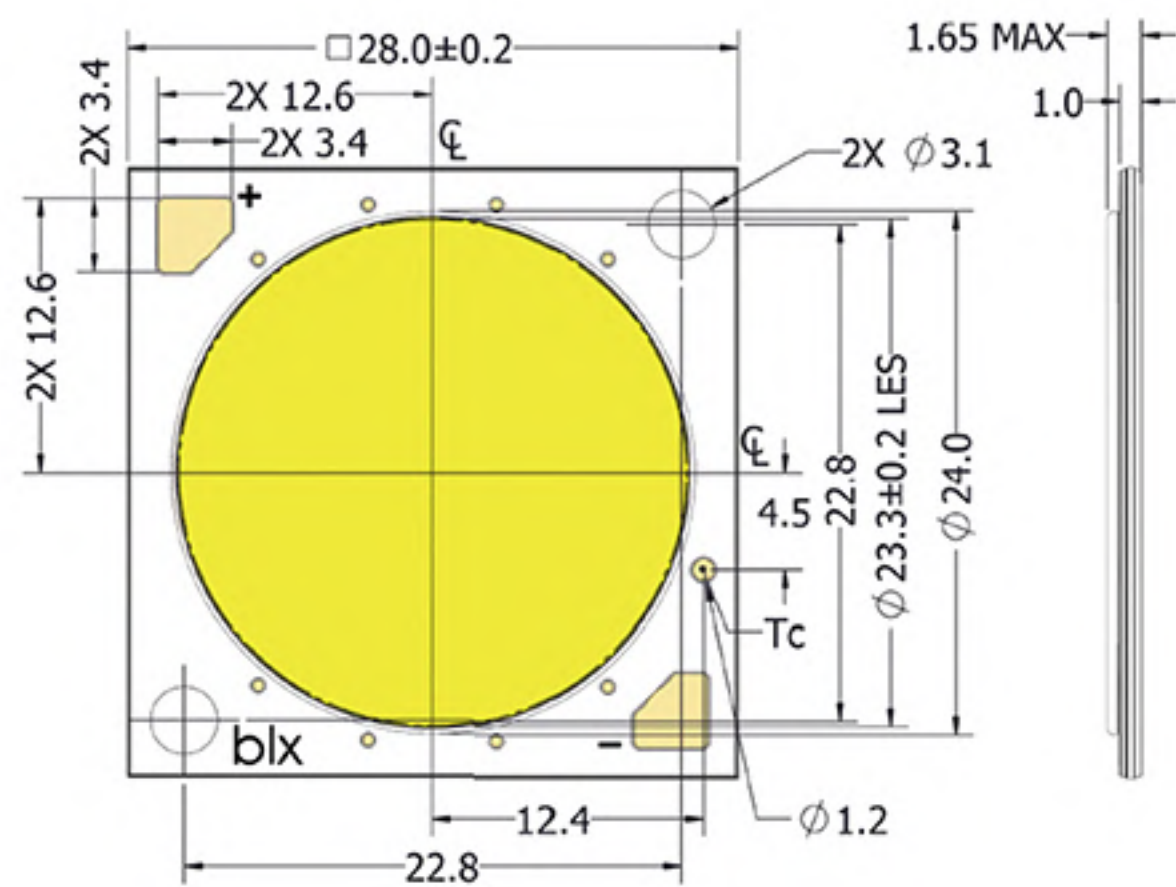
Product Drawings



V15 Gen 8



V18 Gen 8



V22 Gen 8

V Series™ HD



Product Introduction

V Series™ HD is our ultra-high lumen density COB product line, designed for high intensity spot lights used in retail and commercial settings.

V Series™ HD arrays replace ceramic metal halide lamps by providing equal or greater center beam candle power (CBCP) at higher efficiency and at twice the lifetime. Their tight beam control and exceptional quality of light is well suited for showcase grade directional spot applications.

Features

- ✓ Ultra-high lumen density
- ✓ High center beam candle power, comparable to ceramic metal halides
- ✓ Available in variety of color points, including Decor Class A and ultra-high CRI
- ✓ Significantly reduced thermal resistance
- ✓ Industry leading color over angle uniformity
- ✓ Energy Star / ANSI compliant color binning structure with 3 SDCM options

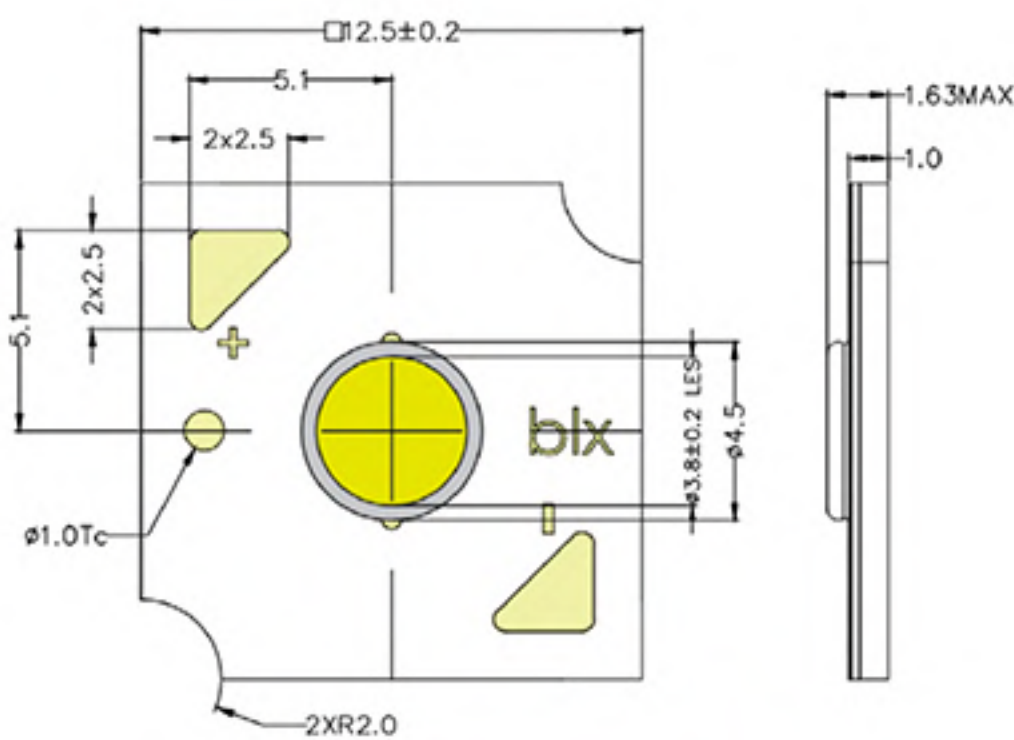
Benefits

- ✓ Enhanced optical control
- ✓ Clean, consistent white light without pixelation
- ✓ High quality, true color reproduction
- ✓ Reliable use at elevated currents enables greater design flexibility
- ✓ Better performance maintenance over time and 2x the lifetime of ceramic metal halides
- ✓ Enables compact fixture design, lowers operating costs
- ✓ Reduced maintenance costs

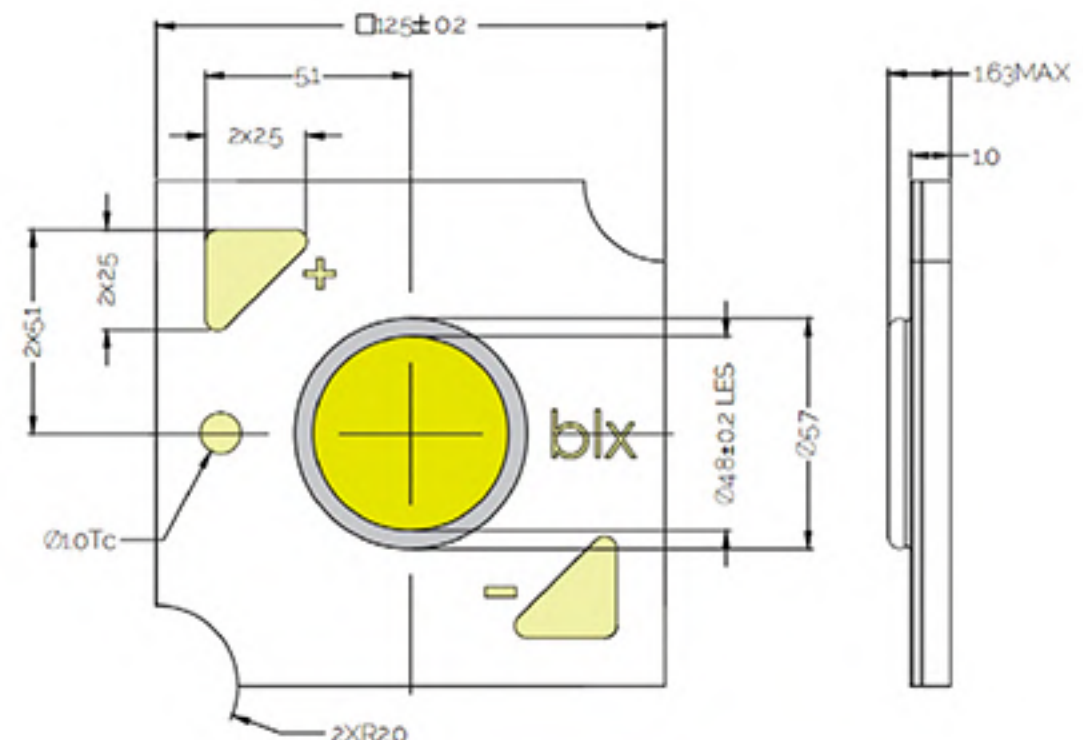
Product Specifications

Product Series	Product	Part Number	PCB Size (mm)	SPI	LES (mm)	Typical Vf (V)	If Range (Typical to Max) (mA)	Typical Efficacy (lm/W) (3000K 80CRI)	Power Range (W) (typical to Max)	CCT Options	CRI Options
V HD Series Gen8	V3 HD	BXRH-xxx040x-C-8x	13.5x13.5	35	3.1	11.8	350-700	100	4.1-8.7	2700K 3000K 3500K 4000K	80/90/95
	V3 HD	BXRH-xxx030x-A-8x	12.5x12.5	40	3.8	34.4	80-180	123	2.8-7.6		
	V3 HD	BXRH-xxx030x-B-8x	12.5x12.5	40	3.8	17.2	160-360	123	2.8-7.6		
	V4 HD	BXRH-xxx060x-A-8x	12.5x12.5	40	4.8	36.6	175-300	136	6.4-12.7		
	V4 HD	BXRH-xxx060x-B-8x	12.5x12.5	40	4.8	18.3	350-600	136	6.4-12.7		
	V6 HD	BXRH-xxx100x-B-8x	13.5x13.5	35	6.6	36.6	350-600	140	12.8-25.4		
	V6 HD	BXRH-xxx100x-G-8x	13.5x13.5	35	6.6	18.3	700-1200	140	12.8-25.4		
	V9 HD	BXRH-xxx300x-D-8x	19x19	25	8.8	36.6	700-1200	142	25.6-51.0		
V HD Series Gen7	V4 HD	BXRH-xxx0600-A-7x	12.5x12.5	40	4.8	35.4	175-240	109	6.2-9.7	2700K 3000K 3500K 4000K	80/90/95
	V6 HD	BXRH-xxx1000-B-7x	13.5x13.5	35	6.6	36.4	350-480	125	12.7-19.4		
	V6 HD	BXRH-xxx1000-G-7x	13.5x13.5	35	6.6	18.2	700-960	125	12.7-19.4		
	V9 HD	BXRH-xxx3000-D-7x	19x19	25	8.8	36.4	700-960	134	25.5-38.8		

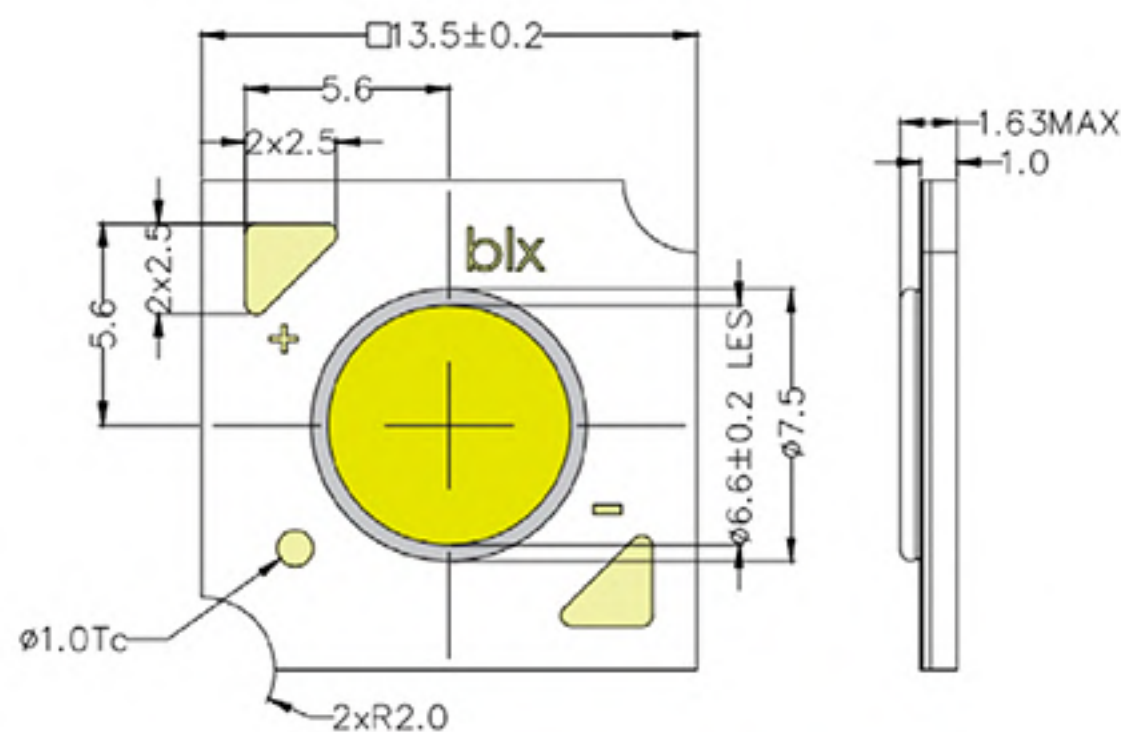
Product Drawings



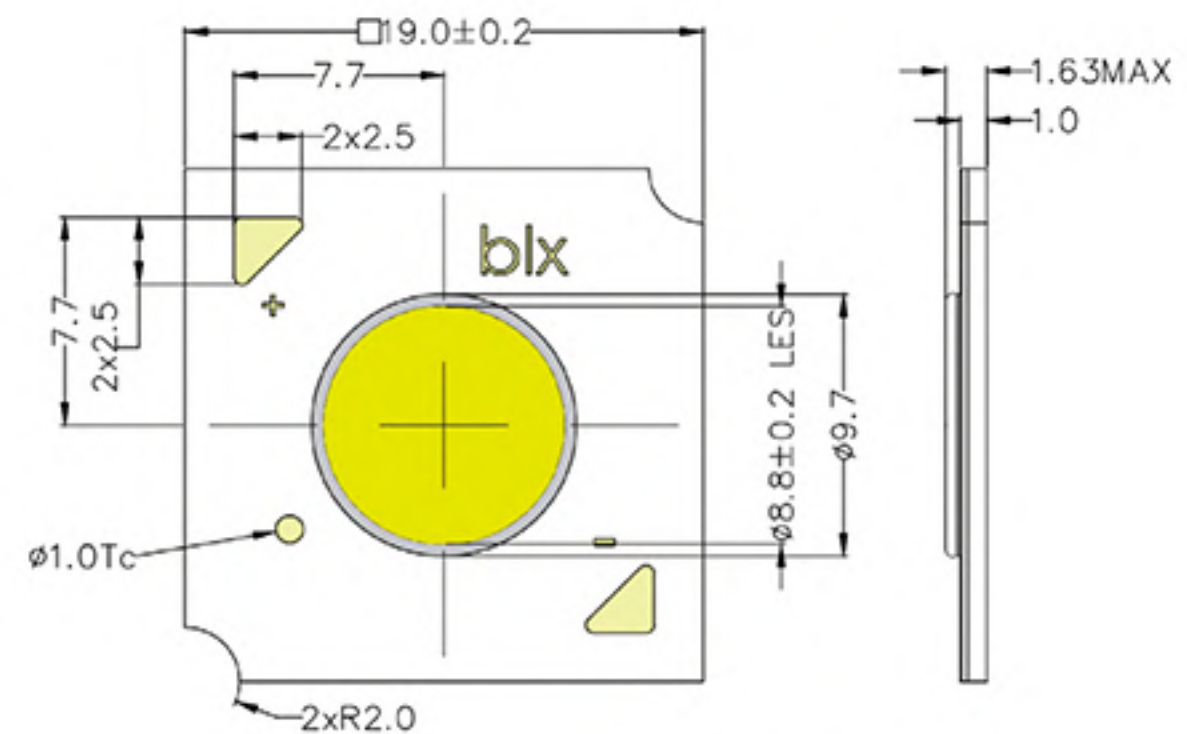
VHD 3



VHD 4



VHD 6



VHD 9

E Series



Product Introduction

E Series delivers competitive lumens per dollar and sufficient efficacy for a wide range of lighting applications including downlight, spot and track lighting often used in residential environments. E Series LES sizes range from six to 22 mm and form factors are available in a variety electrical configurations and lumen output options.

Features

- ✓ Wide range of performance from 460 to 8220 lm with CCT options from 2700K – 6500K
- ✓ Compact, high flux density light source
- ✓ Uniform, high quality illumination
- ✓ Streamlined thermal path
- ✓ ENERGY STAR® / ANSI compliant color binning structure with 3 and 5 SDCM options
- ✓ Same mechanical size and LES dimensions as V Series™ for E6 & E8 (comparable to V6 & V8)
- ✓ Industry standard DC voltage operation
- ✓ RoHS and REACH compliant

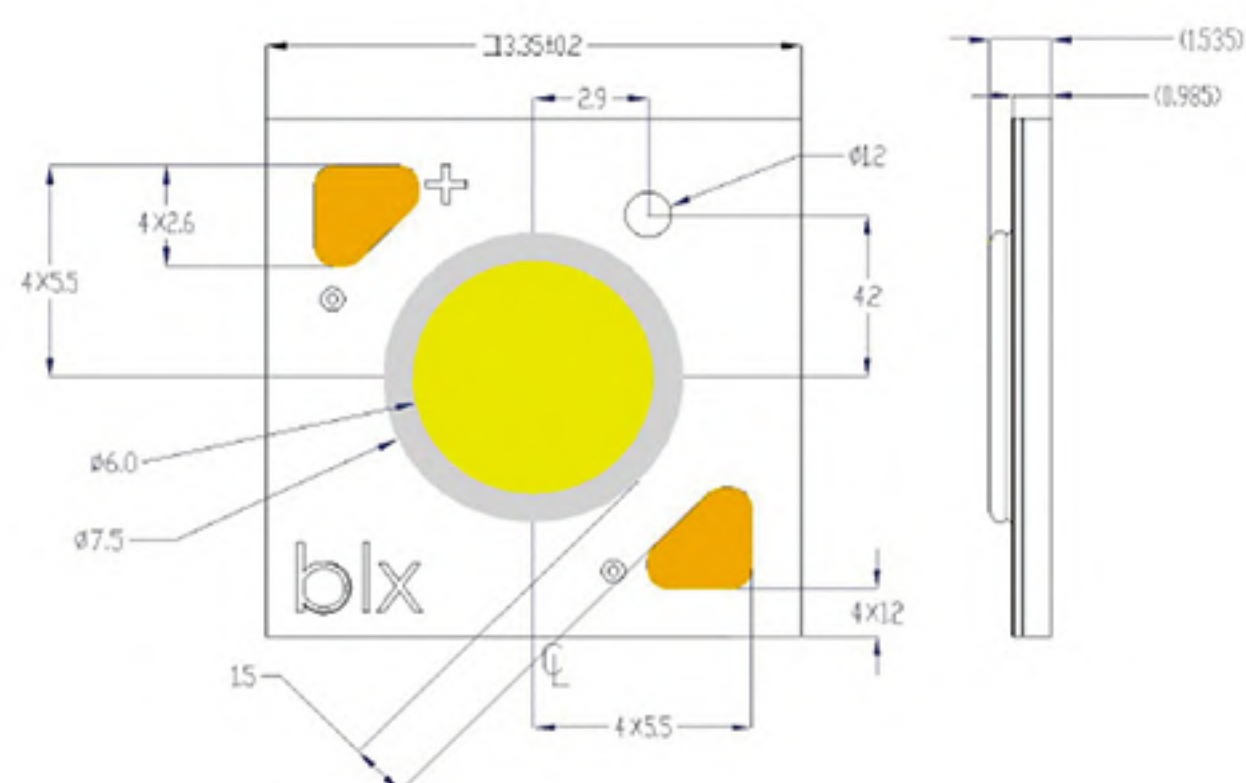
Benefits

- ✓ Supports most general lighting applications
- ✓ Enables tight beam control when used with secondary optics
- ✓ Clean white light without pixilation
- ✓ Low thermal resistance
- ✓ Uniform, consistent white light
- ✓ Design flexibility to support product differentiation based on efficacy and cost
- ✓ Aligns with commonly available drivers to reduce system costs
- ✓ Environmentally friendly

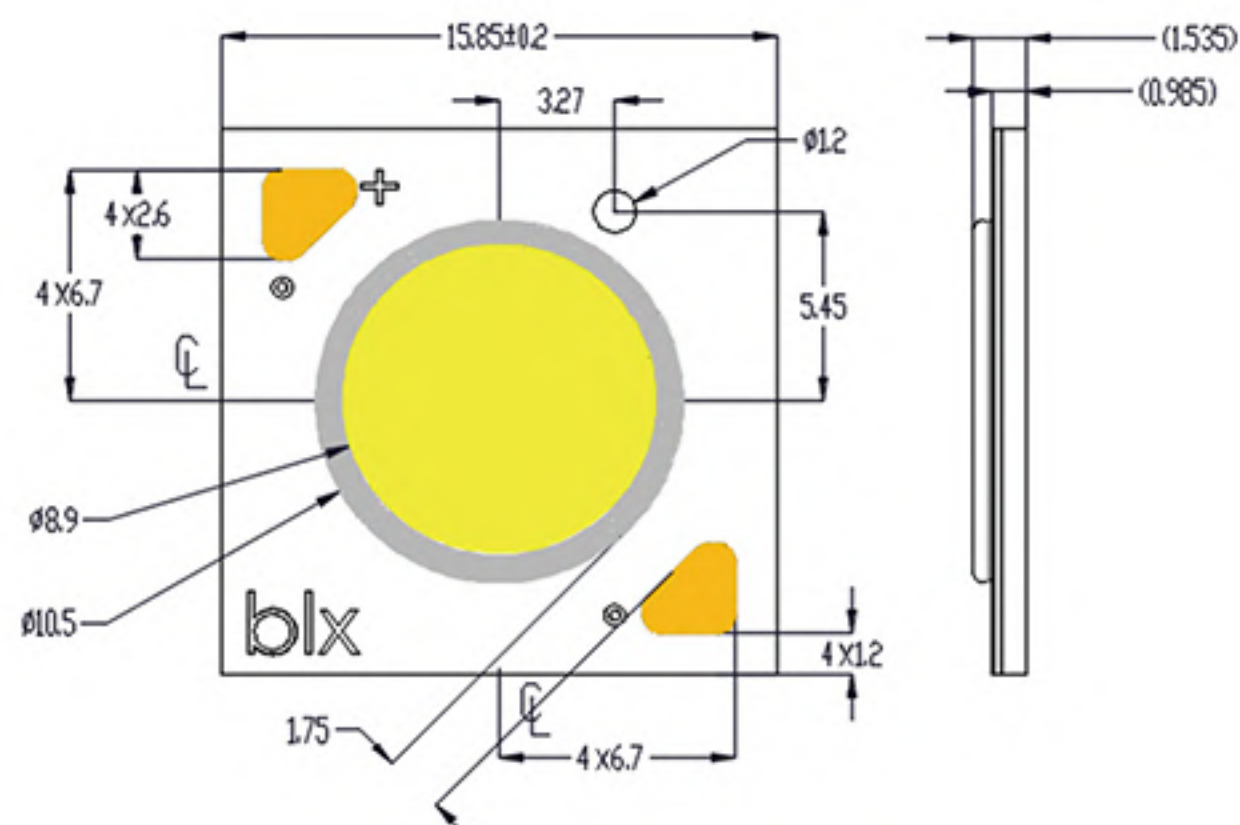
Product Specifications

Product Series	Product	Part Number	PCB Size (mm)	SPI	LES (mm)	Typical Vf (V)	If Range (Typical to Max) (mA)	Tyical Efficacy (lm/W) (3000K 80CRI)	Power Range (W) (typical to Max)	CCT Options	CRI Options
E Series	E6 CA	BXKC-xxx0801-D-1x	13.35x13.35	35	6.0	8.9	400-960	149	3.6-9.9	2700K 3000K 3500K 4000K 5000K 5700K 6500K	70/80/90/95
		BXKC-xxx0801-B-1x				17.8	200-480				
		BXKC-xxx0801-A-1x				35.5	100-240				
	E8 CA	BXKC-xxx1501-D-1x	15.85x15.85	30	8.9	17.8	400-960	152	7.1-19.4		
		BXKC-xxx1501-B-1x				35.5	200-480				
		BXKC-xxx2000-C-1x				35.5	350-720	142	12.6-28.8		
	E13 CA	BXKC-xxx3000-D-1x	17.85x17.85	25	12.0	36.0	450-960	146	16.2-38.4		
		BXKC-xxx4000-E-1x				36.0	550-1200	143	19.8-48.2		
	E6 CA HE	BXKC-xxx0801-D-2x	13.35x13.35	35	6.0	8.8	400-960	161	3.5-9.1	2700K 3000K 3500K 4000K 5000K 5700K 6500K	70/80/90/95
		BXKC-xxx0801-B-2x				17.5	200-480				
		BXKC-xxx0801-A-2x				35.0	100-240				
	E8 CA HE	BXKC-xxx1501-D-2x	15.85x15.85	30	8.9	17.5	400-960	163	7-18.3		
		BXKC-xxx1500-B-2x				35.0	200-480				
		BXKC-xxx2000-C-2x				35.0	350-720	156	12.4-27.4		
	E13 CA HE	BXKC-xxx3000-D-2x	17.85x17.85	25	12.0	35.2	450-960	157	15.8-36.6		
		BXKC-xxx4000-E-2x				35.2	550-1200	156	19.4-45.7		
	E6A	BXKE-XXX0801-A-2X	12.5x12.5	40	6.1	35.4	100-240	136	3.4-9.6	2700K 3000K 3500K 4000K 5000K 5700K 6500K	70/80/90
	E6B	BXKE-XXX0801-B-2X				17.7	200-480				
	E6D	BXKE-XXX0801-D-2X				8.9	400-960				
	E8B	BXKE-XXX1501-B-2X	12.5x12.5	40	8.1	35.4	200-480	142	7.1-19.1		
	E8D	BXKE-XXX1501-D-2X				17.7	400-960				
	E10A	BXKE-XXX0800-A-1x	13.5x13.5	35	9.8	37.4	160-240	131	6-9.6		
	E10B	BXKE-XXX1500-B-1x				37.4	320-480	127	12-19.1		
	E10C	BXKE-XXX2000-C-1x				37.4	480-720	123	18-28.7		
	E10D	BXKE-XXX30H0-D-1x				38.0	720-960	120	27.4-38.2		
	E15D	BXKE-XXX3000-D-1X	19x19	25	14.5	38.0	720-960	128	27.4-38.2		
	E15F	BXKE-XXX4000-F-1X				37.4	960-1440	127	35.9-57.3		
	E22H	BXKE-XXX6500-H-1x	28x28	15	22.0	36.7	1440-1920	127	54.7-76.4		

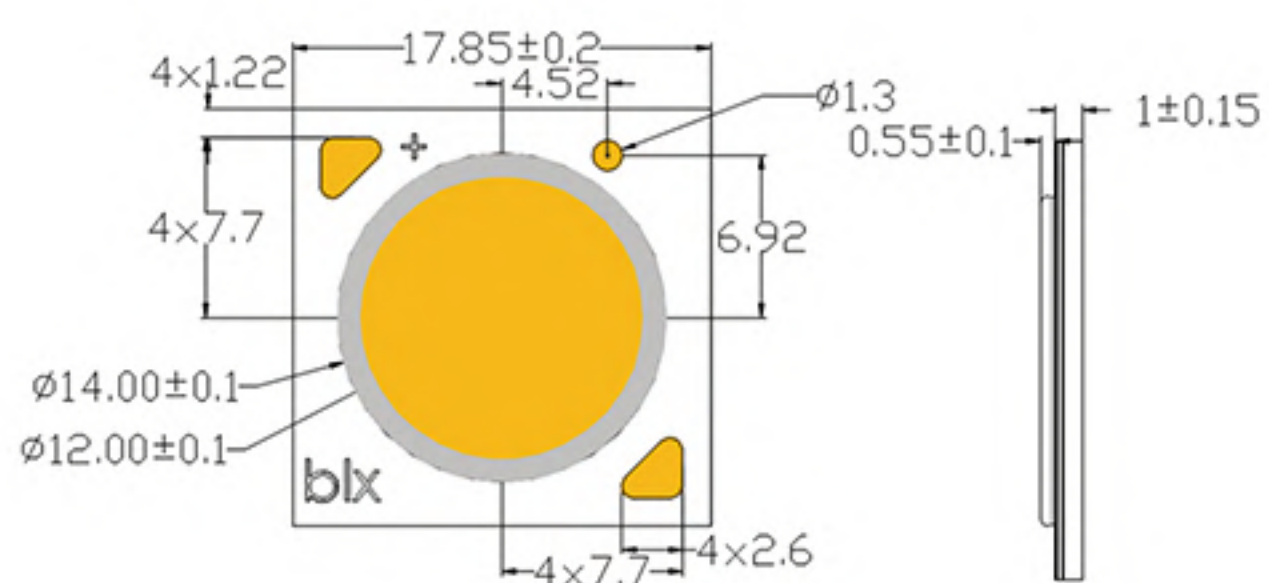
E Series



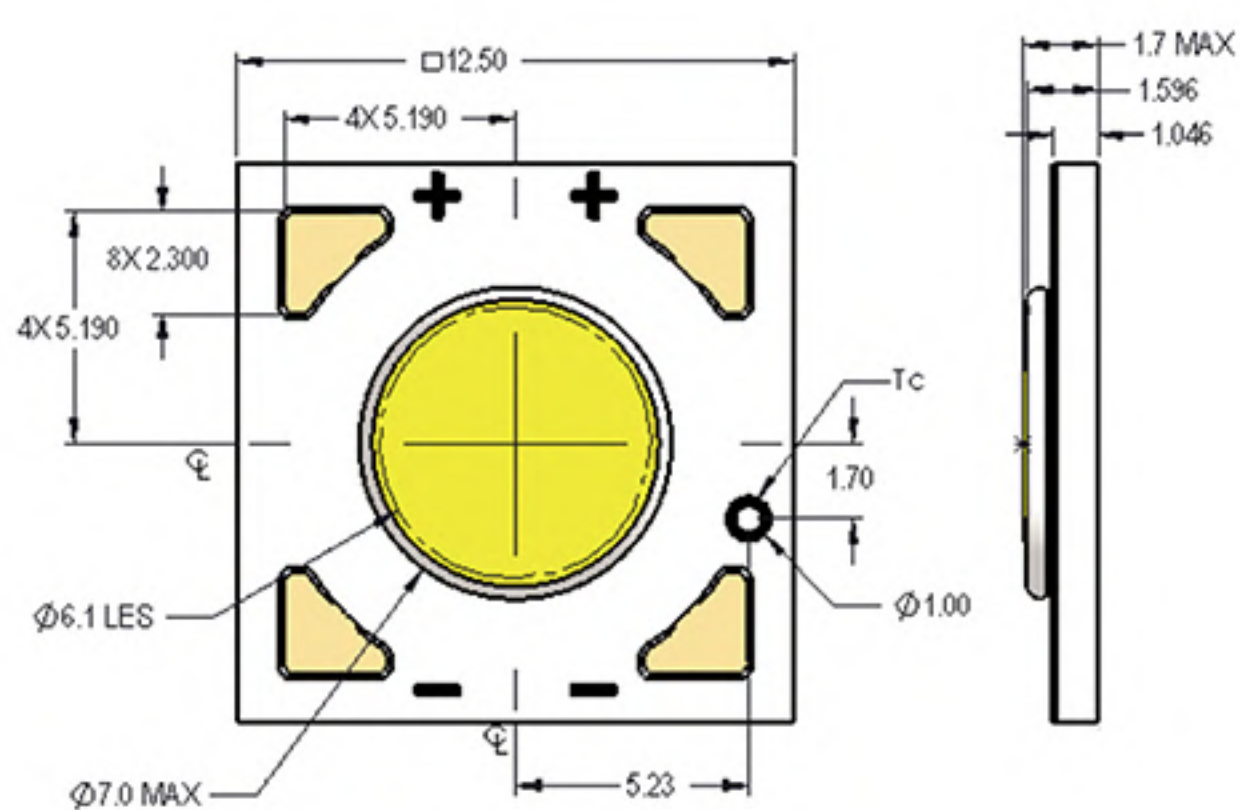
E6 CA



E8 CA

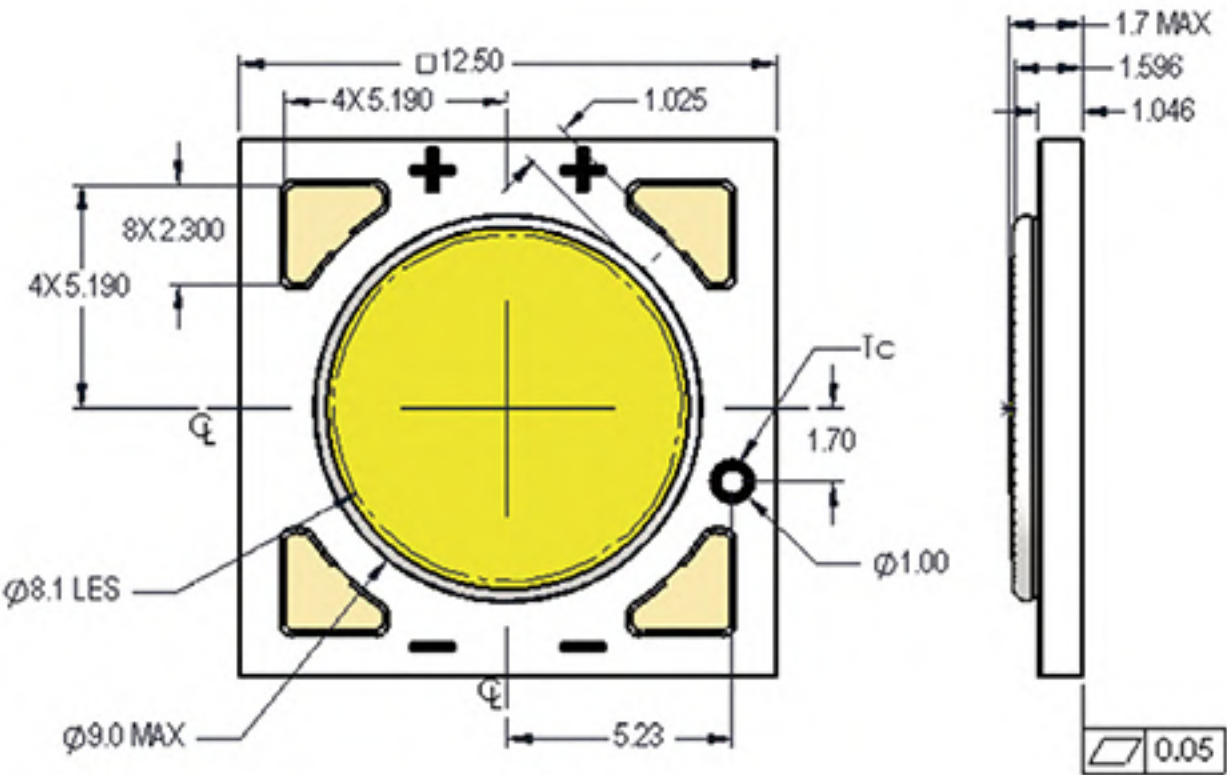


E13 CA

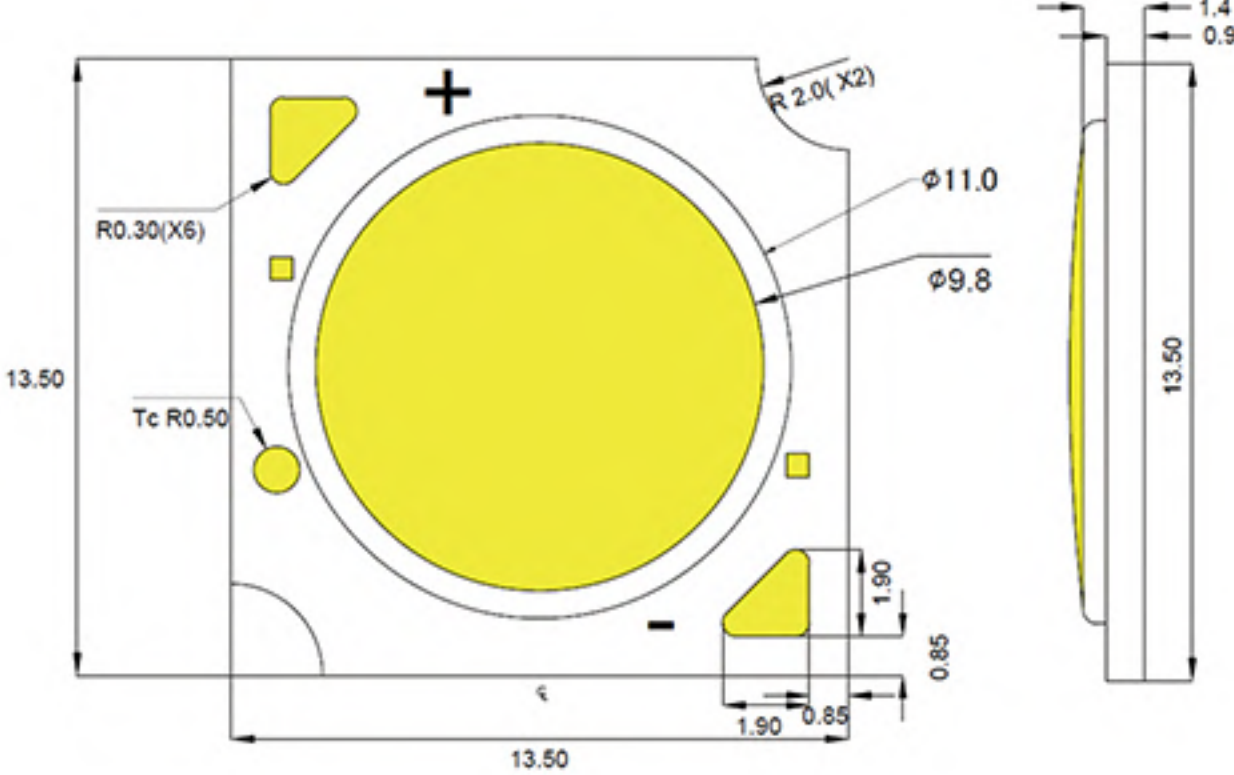


E6

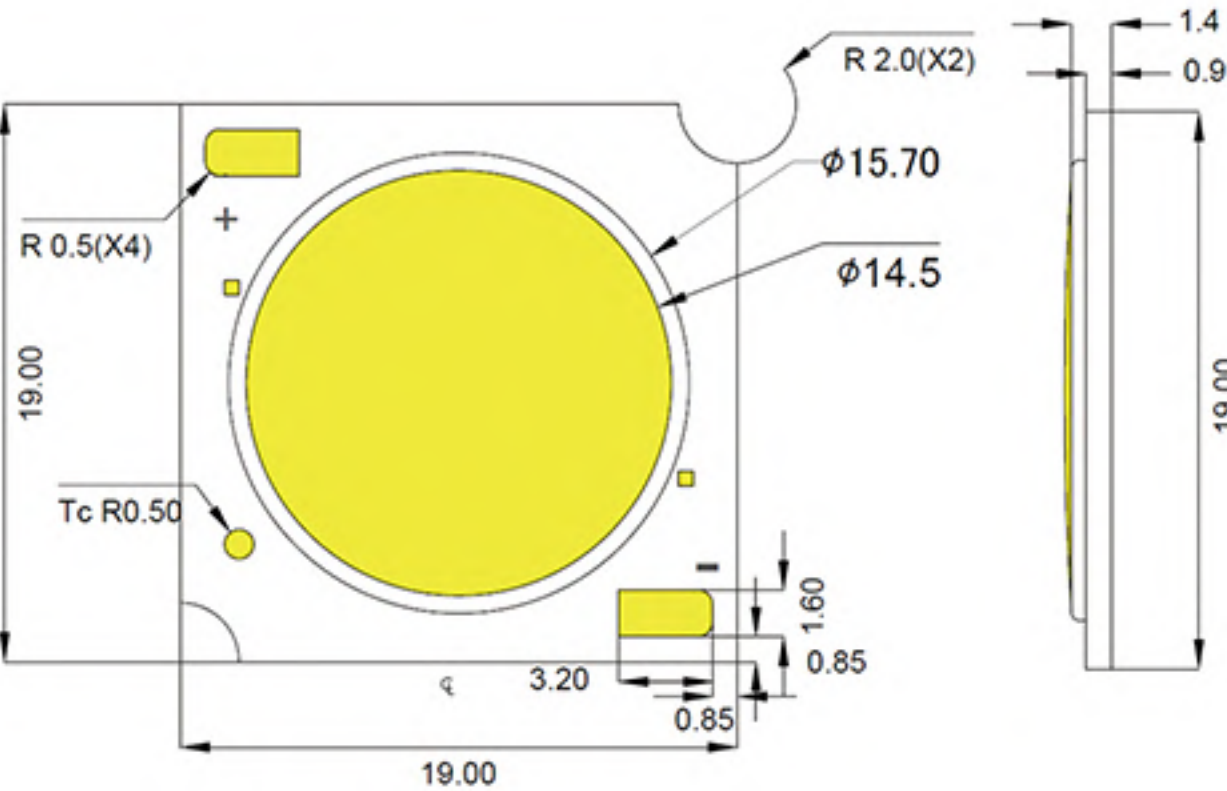
Product Drawings



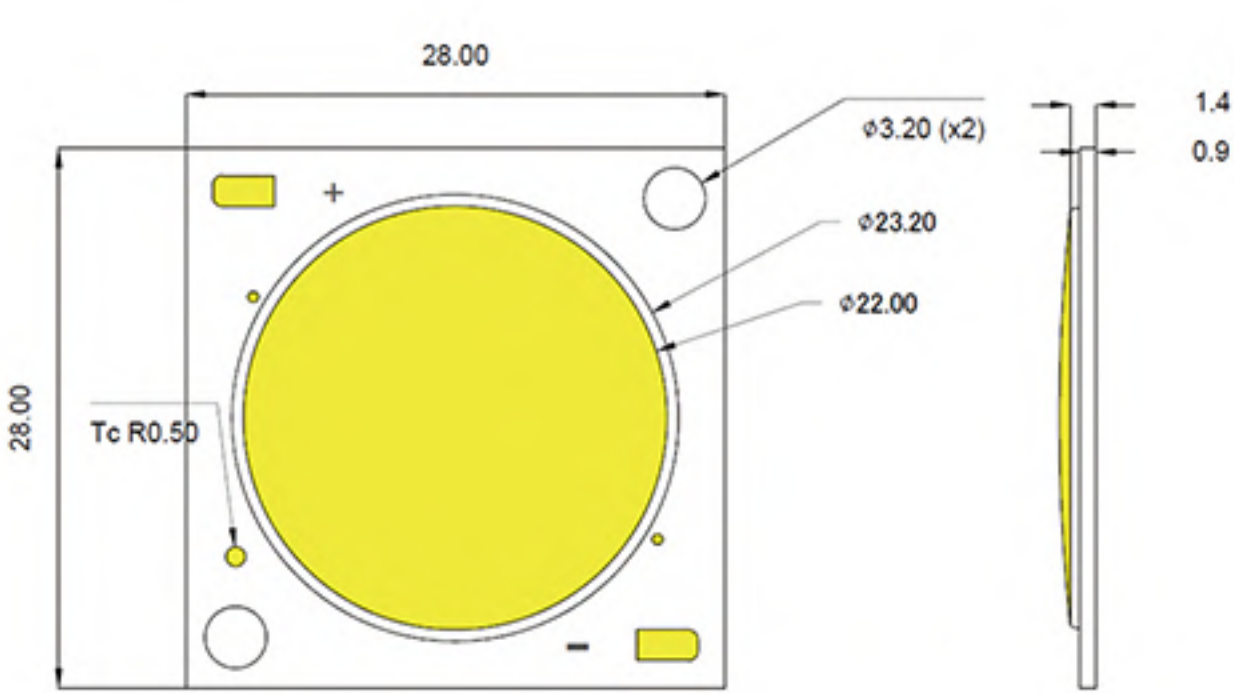
E8



E10

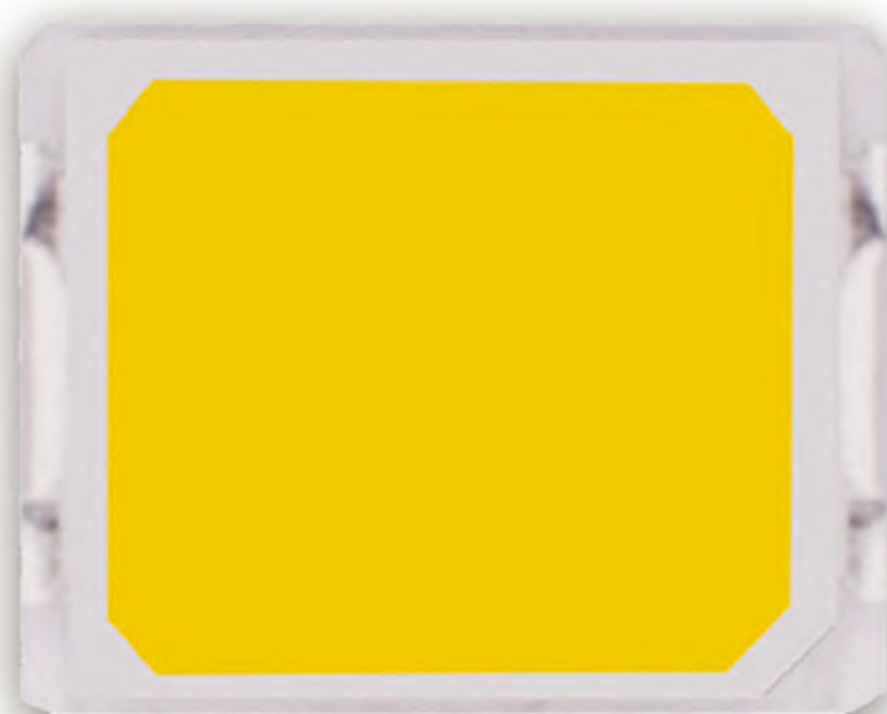


E15



E22

SMD 2835 F90



Product Introduction

The Bridgelux SMD 2835 F90 series LED delivers competitive lumens in CRI90 and sufficient efficacy for a wide range of lighting applications. With its broad lumen coverage and wide range of CCT options, the SMD 2835 F90 provides unparalleled design-in flexibility for indoor applications. The SMD 2835 is ideal as a drop-in replacement for emitters with an industry standard 2.8mm x 3.5mm footprint.

Features

- ✓ High efficacy and lumens per dollar
- ✓ Industry standard form factors and footprint
- ✓ Multiple wattage and electrical configuration options
- ✓ Broad range of CCT and CRI configurations
- ✓ Enables 3 and 6-step MacAdam ellipse custom binning kits
- ✓ RoHS compliant and lead free

Benefits

- ✓ Competitive system performance and costs
- ✓ Ease of design and rapid go-to-market
- ✓ Enables uniform and consistent white light
- ✓ High reliable fixture quality
- ✓ Design flexibility
- ✓ Environmentally friendly

Product Specifications

Product	Product Part Number	Nominal Power (w)	Typical Vf (V)	Nominal Drive Current (mA)	Typ Flux (lm)	Typ Eff (lm/W)	The benchmark for Eff	CCT Options	CRI Options
2835 F90	BXFN-XXX-11L-37-00-0-0	0.2	2.9	65	31	164	4000K/RA90	2700K-6500K	90
	BXFN-XXX-11L-3A-00-0-0	0.2	2.9	65	33	177			90
	BXFN-XXX-11L-3C3-00-0-0	0.2	2.8	65	35	188			90
	BXFN-XXX-21L-3C4-00-0-0	0.2	2.7	65	36	204			90
	BXFN-XXX-12H-6RC-00-0-0	1	6.0	150	144	160	3000K/RA90		90
	BXFN-XXX-13H-98-00-0-0	1	9.3	100	122	131			90
	BXFN-XXX-13H-9C-00-0-0	1	9.2	100	127	139			90
	BXFN-XXX-13H-9D-00-0-0	1	9.0	100	142	158			90
	BXFN-XXX-21H-18C-00-0-0	1	18.0	50	140	156			90
	BXFN-XXX-12H-36C-00-0-0	1	36.0	25	140	156			90

SMD 2835



Product Introduction

The Bridgelux SMD 2835 LED delivers competitive lumens per dollar and sufficient efficacy for a wide range of lighting applications. With its broad lumen coverage and wide range of CCT options, the SMD 2835 provides unparalleled design-in flexibility for indoor and outdoor lighting applications. The SMD 2835 is ideal as a drop-in replacement for emitters with an industry standard 2.8mm x 3.5mm footprint.

Features

- ✓ High efficacy and lumens per dollar
- ✓ Industry standard form factors and footprint
- ✓ ANSI g bin color control enables tight color control
- ✓ Multiple wattage and electrical configuration options
- ✓ Broad range of CCT and CRI configurations
- ✓ Enables 3- and 5-step MacAdam ellipse custom binning kits
- ✓ RoHS compliant and lead free

Benefits

- ✓ Competitive system performance and costs
- ✓ Ease of design and rapid go-to-market
- ✓ Enables uniform and consistent white light
- ✓ High reliable fixture quality
- ✓ Design flexibility
- ✓ Environmentally friendly

Product Specifications

Product	Product Part Number	Nominal Power (W)	Typical Vf (V)	Nominal Drive Current (mA)	Typ Flux (lm)	Typ Eff (lm/W)	The benchmark for Eff	CCT Options	CRI Options
2835	BXEN-XXX-11L-37A-00-0-0	0.2	2.9	60	28	161	4000K/RA80	2700K-6800K	80
	BXEN-XXX-11L-3S-00-0-0	0.2	3.0	60	28	158	4000K/RA80	2200K-6500K	80/90
	BXEN-XXX-11M-39A-00-0-0	0.5	3.2	150	69	125	4000K/RA80	2500K-6500K	80
	BXEN-XXX-11M-39-00-0-0	0.5	3.2	150	55	115	3000K/RA90	2700K-6500K	90
	BXEN-XXX-11M-3AA-00-0-0	0.5	3.0	150	72	155	4000K/RA80	2700K-6500K	80
	BXEN-XXX-11M-3A-00-0-0	0.5	3.1	150	58	125	3000K/RA90	2700K-6500K	90
	BXEN-XXX-11M-3CA-00-0-0	0.5	2.9	150	77	171	4000K/RA80	2700K-6500K	80
	BXEN-XXX-21M-3DA-00-0-0	0.5	2.9	150	81	189	4000K/RA80	2700K-6500K	80
	BXEN-XXX-21M-3D-00-0-0	0.5	2.9	150	65	142	3000K/RA90	2700K-6500K	90
	BXEN-XXX-21L-3DA-00-0-0	0.2	2.8	65	38	212	4000K/RA80	3000K-6500K	80
	BXEN-XXX-13H-98-00-0-0	1	9.3	100	129	139	4000K/RA80	2700K-6500K	80
	BXEN-XXX-13H-9C-00-0-0	1	9.2	100	140	152	4000K/RA80	2500K-6500K	80/90/95
	BXEN-XXX-13H-9D-00-0-0	1	8.8	100	122	134	3000K/RA90	2700K-6500K	90
	BXEN-XXX-13H-9DN-00-0-0	1	9.0	100	128	142	3000K/RA90	2700K-6500K	90
	BXEN-XXX-12H-18A-00-0-0	1	18.1	50	140	155	4000K/RA80	2700K-6500K	80/90
	BXEN-XXX-12H-36A-00-0-0	1	36.0	25	135	150	4000K/RA80	2500K-6500K	80/90
2835 Rould LES	BXEN-XXX-12H-6RB-00-0-0	1	6.2	150	138	150	4000K/RA80	2700K-6500K	80
	BXEN-XXX-13H-9RB-00-0-0	1	9.1	100	140	154	4000K/RA80	2700K-6500K	80

SMD 3030



Product Introduction

The Bridgelux SMD 3030 offers exceptional performance in a compact LED package. This high power LED is hot-color targeted which ensures that the LEDs fall within their specified color bin at the typical application conditions of 85°C. With its broad lumen coverage and wide range of CCT and CRI options, the SMD 3030 provides unparalleled design-in flexibility for indoor and outdoor lighting applications. Its high flux capability reduces the number of LEDs and enables industry leading system level lumen per dollar. The SMD 3030 is ideal as a drop in replacement for emitters with an industry standard 3.0mm x 3.0mm footprint.

Features

- ✓ Industry standard form factors and footprint
- ✓ ANSI 9 bin color control enables tight color control
- ✓ Broad range of CCT and CRI configurations
- ✓ Enables 3- and 5-step MacAdam ellipse custom binning kits
- ✓ Excellent lumen maintenance
- ✓ Hot-color targeting ensures that color is within the bin at the typical application condition of 85°C
- ✓ RoHS compliant and lead free

Benefits

- ✓ Competitive system performance and costs
- ✓ Ease of design and rapid go-to-market
- ✓ Enables uniform and consistent white light
- ✓ High reliable fixture quality
- ✓ Design flexibility
- ✓ Environmentally friendly

Product Specifications

Product	Product Part Number	Nominal Power (W)	Typical Vf (V)	Nominal Drive Current (mA)	Typ Flux (lm)	Typ Eff (lm/W)	The benchmark for Eff	CCT Options	CRI Options
3030	BXEM-xxC-12H-6A-00-0-0	1	6.1	150	158	173	5000K/RA70	2200K-6500K	70
	BXEM-xxE-12H-6A-00-0-0	1	6.1	150	144	158	4000K/RA80		80
	BXEM-xxG-12H-6A-00-0-0	1	6.1	150	121	132	3000K/RA90		90
	BXEM-xxC-12H-6C-00-0-0	1	6.1	150	158	173	5000K/RA70		70
	BXEM-xxE-12H-6C-00-0-0	1	6.1	150	144	158	4000K/RA80		80
	BXEM-xxG-12H-6C-00-0-0	1	6.1	150	121	132	3000K/RA90		90

SMD 3535



Product Introduction

The Bridgelux SMD 3535 have SMT ceramic package with silicone lens. Excellent lumen maintenance enable widely used in portable lighting, architectural lighting, outdoor lighting, commercial lighting and other fields. With its broad lumen coverage and wide range of CCT options, Its high flux capability reduces the number of LEDs and enables industry leading system level lumen per dollar. The SMD 3535 is ideal as a drop in replacement for emitters with an industry standard 3.5mm x 3.5mm footprint.

Features

- ✓ SMT ceramic package with silicone lens
- ✓ Market leading color control for 2 - and 3 -step
- ✓ Broad range of CCT and CRI configurations
- ✓ ESD8kV meet a variety of application needs
- ✓ Excellent lumen maintenance
- ✓ Hot-binnings targeting ensures that photoelectric parameter is within the bin at the typical application condition of 85°C
- ✓ RoHS compliant and lead free

Benefits

- ✓ Competitive system performance and costs
- ✓ Ease of design and rapid go-to-market
- ✓ Enables uniform and consistent white light
- ✓ High reliable fixture quality
- ✓ Design flexibility
- ✓ Environmentally friendly

Product Specifications

Product	Product Part Number	Power Range (W) Tsp=85°C	Typical Vf (V) Tsp=85°C	If Range (Typical to Max) (mA) Tsp=85°C	Typ Flux (lm) Tsp=85°C	Typ Eff (lm/W) Tsp=85°C	The benchmark for Eff	CCT Options	CRI Options
3535	BXEX-xxC-11H-3A-00-00-0	1-5	3.0	700-1500	300	144	5000K/RA70	3000K-6500K	70
	BXEX-xxE-11H-3A-00-00-0	1-5	3.0	700-1500	268	132	4000K/RA80		80
	BXEX-xxG-11H-3A-00-00-0	1-5	2.9	700-1500	210	103	3000K/RA90	2700K-5000K	90
	BXEX-xxH-11H-3A-00-00-0	1-5	2.9	700-1500	185	91	3000K/RA95	2700K-4000K	95

SMD 5050



Product Introduction

The Bridgelux SMD 5050 high power LED have excellent lumen maintenance and sufficient efficacy for a wide range of lighting applications. With its broad lumen coverage and wide range of CCT and CRI options, the SMD 5050 provides unparalleled design-in flexibility for indoor and outdoor lighting applications. The SMD 5050 is ideal as a drop-in replacement for emitters with an industry standard 5.0mm x 5.0mm footprint.

Features

- ✓ Industry standard form factors and footprint
- ✓ ANSI 3 and 5-step MacAdam ellipse options
- ✓ Broad range of CCT and CRI configurations
- ✓ Multiple wattage and electrical configuration options
- ✓ Excellent lumen maintenance
- ✓ Hot-color targeting ensures that color is within the bin at the typical application condition of 85°C
- ✓ RoHS compliant and lead free

Benefits

- ✓ Lower operating and manufacturing costs
- ✓ Ease of design and rapid go-to-market
- ✓ Enables uniform and consistent white light
- ✓ High reliable fixture quality
- ✓ Design flexibility
- ✓ Environmentally friendly

Product Specifications

Product	Product Part Number	Power Range (W)	Typical Vf (V)	If Range (Typical to Max) (mA)	Typ Flux (lm)	Typ Eff (lm/W)	The benchmark for Eff	CCT Options	CRI Options
5050	BXEP-xxx-435-09B-00-00-0	5-9	8.9	500-960	736	166	5000K/RA70	2700K-6500K	70/80/90
	BXEP-xxx-1C5-36B-00-00-0	5-9	35.5	125-240	736	166			
	BXEP-xxx-435-09C-00-00-0	5-9	8.9	500-960	791	177			
	BXEP-xxx-1C5-36C-00-00-0	5-9	35.7	125-240	791	177			
	BXEP-xxx-181-24A-00-00-0	1-5	22.0	45-240	192	194		3000K-6500K	70/80/90/95
	BXEP-xxx-181-24B-00-00-0	1-5	22.0	45-240	206	208			
	BXEP-xxx-425-06A-00-00-0	5-6.5	6.2	750-1000	788	170			70

SMD 7070



Product Introduction

SMD 7070 series is one of the compact, high power lighting solutions. It's suitable for spot and accent, streetlights, high bay and flood lights etc., SMD 7070 enhances beam control and optical efficiency when used with secondary optics. With its broad lumen coverage and wide range of CCT and CRI options, the SMD 7070 provides unparalleled design-in flexibility for indoor and outdoor lighting applications. The SMD 7070 is ideal as a drop-in replacement for emitters with an industry standard 7.0mm x 7.0mm footprint.

Features

- ✓ Industry standard form factors and footprint
- ✓ ANSI 3 and 5-step MacAdam ellipse options
- ✓ Broad range of CCT and CRI configurations
- ✓ Multiple wattage and electrical configuration options
- ✓ Excellent lumen maintenance
- ✓ Hot-color targeting ensures that color is within the bin at the typical application condition of 85°C
- ✓ RoHS compliant and lead free

Benefits

- ✓ Lower operating and manufacturing costs
- ✓ Ease of design and rapid go-to-market
- ✓ Enables uniform and consistent white light
- ✓ High reliable fixture quality
- ✓ Design flexibility
- ✓ Environmentally friendly

Product Specifications

Product	Product Part Number	Power Range (W)	Typical Vf (V)	If Range (Typical to Max) (mA)	Typ Flux (lm)	Typ Eff (lm/W)	The benchmark for Eff	CCT Options	CRI Options
7070	BXEP-xxx-1E6-42A-00-00-0	6-8.5	41.7	150-200	938	150	4000K/RA80	2700K-6500K	70/80/90/95
	BXEP-xxx-298-27A-00-00-0	8-11	26.6	300-400	1176	154			
	BXEP-xxx-2CA-36A-00-00-0	10-14.5	35.5	300-400	1568	148			

SMD 4014



Product Introduction

The Bridgelux SMD 4014 low power LED has high efficacy. With its broad lumen coverage and wide range of CCT options, the SMD 4014 provides unparalleled design-in flexibility for indoor lighting applications. The SMD 4014 is ideal as a drop-in replacement for emitters with an industry standard 4.0mm x 1.4mm footprint.

Features

- ✓ High efficacy and lumens per dollar
- ✓ Industry standard form factors and footprint
- ✓ ANSI 9 bin color control enables tight color control
- ✓ Excellent lumen maintenance
- ✓ Broad range of CCT and CRI configurations
- ✓ Enables 3- and 5-step MacAdam ellipse custom binning kits
- ✓ RoHS compliant and lead free

Benefits

- ✓ Lower operating and manufacturing costs
- ✓ Ease of design and rapid go-to-market
- ✓ Enables uniform and consistent white light
- ✓ High reliable fixture quality
- ✓ Design flexibility
- ✓ Environmentally friendly

Product Specifications

Product	Product Part Number	Nominal Power (W)	Typical Vf (V)	Nominal Drive Current (mA)	Typ Flux (lm)	Typ Eff (lm/W)	The benchmark for Eff	CCT Options	CRI Options
4014	BXEW-xxx-11L-3A-00-0-0	0.2	3.0	60	28.0	154	4000K/RA80	3000K-6500K	80
	BXEW-xxx-11L-3A1-00-0-0	0.2	2.9	60	29.6	170			80/90
	BXEW-xxx-11L-3B-00-0-0	0.2	2.9	60	30.8	177			
	BXEW-xxx-11L-3C-00-0-0	0.2	2.9	60	32.5	190			



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