Xicato Light Sources

Highest Quality Light Sources in the Industry

For over a decade, Xicato has engineered and developed the industry's most reliable LED modules that lighting designers recognize as the highest quality light available. Xicato's patented spectral options, Artist, Beauty, Designer, Standard, and Vibrant, are unmatched for their colour rendering, colour maintenance, and reliability. With multiple form factors, a broad range of LES, CCT and the industry's leading colour rendering, Xicato delivers the light for interior and exterior environments. Xicato's 10-year warranty on colour and lumen maintenance on its LED modules guarantee that Xicato Inside™ any luminaire will offer only the best in light quality for years to come.

Transform your space with Xicato Inside™.

XOB
Packaged LED Array

The Xicato Chip on Board (COB) LED light source compatible with industry standard holders, heatsinks, reflectors and lenses used in a variety of downlight and spot fixtures. XOB provides high quality light with a white point that perfectly matches other Xicato products. XOB delivers Xicato's award-winning colour points, unmatched colour rendering, and great performance in an industry standard form factor that allows for rapid fixture design resulting in accelerated time to revenue.

Features and Benefits

The best color matching–within 1 x 2 MacAdam Ellipses

Industry standard form factor for ease of use

More size options than many competitive offerings

UL & CE compliant

5-year lumen maintenance warranty at max current

2-year colour maintenance warranty at typical current

*Refer to the full warranty on xicato.com for detailed information

Quality of Light and Colour

CRI: 90, 95 and Vibrant 95

CCT: 2700-4000K with optimized spectra

Matches Xicato colour points of XCA, XTM, XIM

Very tight colour consistency, within 1x2 SDCM for all CCT/CRI

Fidelity ≥ 93 @ 3000K, Ra 95

Gamut ≥100 @ 3000K, Ra 95

345lm – 8300lm typical flux

LES and Package Sizing

4.5mm, 6mm and 9.8mm LES: 13.5mm x 13.5mm

14.5mm LES: 19mm x 19mm

23mm LES: 28mm x 28mm

32.8mm LES: 38mm x 38mm

XIM
Smart Light Engine

The Xicato Intelligent Module (XIM) is a compact, integrated LED lighting module designed to fit a wide variety of downlight and spot fixtures, and to simplify the design and assembly of controllable LED luminaires. The extremely high quality, integrated XIM driver dims more smoothly and deeply than high-end standalone LED drivers. Combined with Xicato's industry leading colour quality, consistency and application-optimized light spectra, XIM provides simply the most beautiful lit effect. Integration makes the XIM more affordable to implement and enables smaller downlight or spotlight fixtures. Over its broad dimming range, XIM exceeds the highest international standards for avoiding health effects related to flicker - it is the only LED solution to achieve this.

Features and Benefits

Internal sensors that detect intensity, LED and PCB temperature, power and other operating parameters

DALI, 1-10V and Bluetooth mesh wireless options

Bluetooth Smart wireless transceiver (XIM Gen4 only)

Integrated 48VDC driver electronics

Drive electronics – constant voltage to constant current (dimmable)

Microprocessor with firmware and static random access memory (SRAM)

10-year colour and lumen maintenance warranty, with electronics

Refer to the full warranty on xicato.com for detailed information

Quality of Light and Colour

Very tight colour consistency, within 1×2 SDCM and 3 SDCM after 50,000 hours

Light output from 700lm to 3000lm

CCT range from 2700K to 4000K (2200K and 5600K available in Artist Series only)

LES and Package Sizing

9mm and 19mm LES options

XTM
LED Light Module

The Xicato Thin Module (XTM) consists of a Xicato Core Array (XCA), pressure fit into a compact yet robust holder designed to allow attachment of a large ecosystem of lenses and heatsinks to facilitate design and construction of a wide variety of downlight and spot fixtures.

XTM modules are available in multiple LES sizes and a range of colour points, colour temperatures, and lumen output. With up to 137 lumens per watt at operating temperatures, XTM is a clear performance leader. The Zhaga compatible mechanical interface includes wires and comes with pre-applied thermal interface material. This enables quick integration so a fixture designer can deliver the light quality that Xicato provides and consistency to a wider customer base. With narrow beam options and high peak intensities (CBCP), the XTM portfolio addresses a wide variety of applications in accent, task and general lighting.

Features and Benefits

Compatible form factor as Zhaga LED modules

High efficacy, as much as 20% more than competitive products

Corrected Cold Phosphor Technology keeps phosphors cool for maintained light quality

Allows for the smallest heat-sinks

Same package design for all flux and CCT options

10-year warranty on colour and lumen maintenance

Refer to the full warranty on xicato.com for detailed information

Quality of Light and Colour

Over 135+ lumens per watt at operating conditions

Very tight colour consistency, within 1x2 SDCM

CCT range from 2700K to 4000K (2200K and 5600K available in Artist Series only)

Light output
- 9mm LES: 700lm to 2000lm
- 19mm LES: 1300lm to 5000lm

LES and Package Sizing

Available in 9mm and 19mm LES

XCA
LED Core Array

The Xicato Core Array (XCA) is the standard LED light source for Xicato Thin Module (XTM) and Xicato Intelligent Module (XIM) platforms, and is also designed for use with the Xicato XSA-401 45mm holder. It is the XCA with Corrected Cold Phosphor Technology® that allows Xicato to provide a long-term warranty on both lumen maintenance and colour consistency with lowest total cost of ownership and smallest ecological footprint. With Xicato's industry leading colour quality, consistency and application-optimized light spectra, XCA provides simply the most beautiful lit effect, and our warranty ensures that consistent lighting design quality is maintained from build to refurbish.

Features and Benefits

Remote phosphor with separate thermal paths for the phosphor and the underlying LED array

Corrected Cold Phosphor Technology® – an initial coat is applied on the inner surface of the sapphire window, the unit is tested, and a second coat is applied to the outer surface to precisely target CCT and CRI values

Quality of Light and Colour

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Light output
- 9mm LES: 700lm to 2000lm
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LES and Package Sizing

Available in 9mm and 19mm LES

XTM, XIM and XCA
Light Source Portfolio

Xicato Portfolio	Lumen Output	2700K		3000K		3500k		4000K	
Artist Series® CIE CRI: Ra 95+, R9 90+ IES TM-30: Rf 96, Rg 103 *2200K, 5600K offered in some lumens	700	b◉		b◉		b◉		b◉	
	1300	b◉	r◉	b◉	r◉	b◉	r◉	b◉	r◉
	2000	b•	r◉	b•	r◉	b•	r◉	b•	r◉
	3000		r•		r•		r•		r•
	4000		r•		r•		r•		r•
Beauty Series® CIE CRI: Ra 95+, R9 90+ IES TM-30: Rf 96, Rg 103	1300			r◉					
	2000			r◉					
Designer Series® CIE CRI: Ra 90+, R9 50+ IES TM-30: Rf 88, Rg 101	700	b◉		b◉		b◉		b◉	
	1300	b◉	r◉	b◉	r◉	b◉	r◉	b◉	r◉
	2000	b◉	r◉	b◉	r◉	b◉	r◉	b◉	r◉
	3000		r◉		r◉		r◉		r◉
	4500				r•		r•		r•
Standard Series CIE CRI: Ra 80+ IES TM-30: Rf 78, Rg 101	700	b◉		b◉		b◉		b◉	
	1300	b◉	r◉	b◉	r◉	b◉	r◉	b◉	r◉
	2000	b◉	r◉	b◉	r◉	b◉	r◉	b◉	r◉
	3000		r◉		r◉		r◉		r◉
	4000		r•		r•		r•		r•
	5000		r•		r•		r•		r•
Vibrant Series® V95 CIE CRI: Ra 95+ IES TM-30: Rf 93, Rg 106	700			b◉					
	1300			b◉	r◉				
	2000			b•	r◉				
	3000				r•				
	4000				r•				

Correlated Color Temperature

Standard Series:	CRI >80 **XCA + XTM**
Designer Series:	CRI >90, improvement on Standard
Artist Series:	CRI>95, first ever LED to replace and improve upon incandescent - highly accurate, natural color, ideal for museums
Vibrant Series:	CRI>95, designed to enhance the brilliance of bright colors - ideal for retail

Legend	XCA + XTM	+XIM
9mm LES	• (blue)	◉ (blue)
19mm LES	• (red)	◉ (red)

Note: CRI listed as XX+ are guaranteed minimum values. Typical values are min+3.

Xicato®

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Contact Us

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Xicato designs and develops light sources and electronics that enable architects, designers and building managers to create beautiful, smart spaces in which people love to live and work. With thousands of installations around the globe, Xicato continues to be a leading supplier of high quality lighting solutions. Xicato is defining the future of intelligent light sources by integrating electronics, software and connectivity. Founded in 2007, Xicato's headquarters is based in Silicon Valley and the company has offices in China, Europe and the US.

For further information, **visit xicato.com.**