
Green lighting technologies

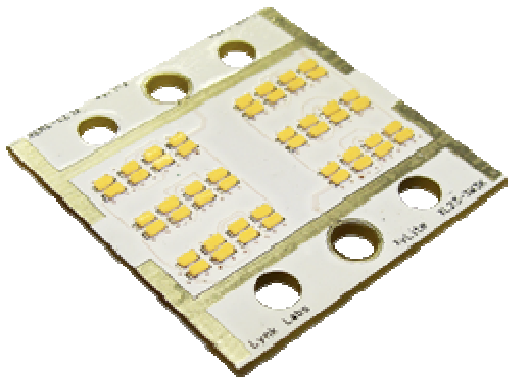


LYNK LABS

Lynk Labs XyLite AC LED module



XyLite™ AC LED module Product Sheet



Designed to accelerate OEM LED product design capabilities, **XyLite™** delivers scalable lumen and light density levels in a newly patented "hybrid AC LED" light engine technology. XyLite provides OEM's with unmatched simplicity and product design flexibility in X and Y dimensions.

With a basic incrementally scalable 1.1 watt module at 13.5mm (L) x 15mm(W), XyLite is available in OEM flexible repeating lengths, widths, lumen levels and lumen densities in 2700K, 3000K, 3500K 4000K, 5000K, 6300K and HCRI (high CRI) in any temperature.

XyLite modules deliver flexible X and Y dimensional building blocks of light that enable luminaire and OEM designers to significantly accelerate and simplify their product design strategy for almost any LED lighting application.

Adding to this the benefits of Lynk Labs AC LED technology, OEM product designers and engineers can deliver LED lighting products that are Lighting Infrastructure Friendly and better understood by architects, contractors, reps, distributors and End Customers from existing experience with lighting.

XyLite is engineered from densely packed micro LEDs and combined with new AC LED technology at the circuit level to provide scalable lumen levels and design simplicity for multiple low and high voltage AC lighting products.

Each XyLite module is a powerful independent AC LED light engine interconnected to make almost any planar shape needed by OEMs.

XyLite™ AC LED Light Engine module Technical Specification

Operating Characteristics (Single Module)

XyLite Series	
Drive Voltage	Min – 11v ac – Max – 12v ac
Thermal Management	T-Solder point Max = 90°C
Viewing Angle	160 Degree
CCT Options (W-C)	STD. – 3K, 4K, 5K / CUST. – 2.7K, 3.5K, 6.3K
CRI Options (W-C)	STD. – 70 / HIGH. 92

Electro-optical Characteristics

Module#	VAC	LM/W (SYSTEM)
3K	12VAC	50
4K	12VAC	55
5K	12VAC	57

(Note – LPW Data based on system efficiency w /12v magnetic. Values based on TA= 25°C / TJ – 60°C)

Powering Specifications

Power Supply/Driver	Output (RMS)	Frequency	Min Load	Dimming
BriteDriver	12VAC	25-50kHz	1 WATT	Output
12Vac Magnetic	12VAC	50/60Hz	5 WATT	Input / Output

(Note – Use Lynk Labs approved AC LED power supply/drivers only – Any exceptions void all AC LED warranties. Contact Lynk Labs for details.)

Design Considerations / Specifications

1. Thermal Management Requirements

- A. Mount on properly designed thermally conductive circuit board
- B. Heat Sink Required (26 square CM/WATT surface area) with good Thermal Connection to board.
- I. Thermal epoxy – No mechanical mounting required
- II. Thermal grease – Mechanical mounting required

2. Mechanical Mounting

- A. Do not put force on LEDs.
- B. Do not bend PCB.

1. Thermal Management Requirements



XyLite Series AC LED Module variants

XyLite Series XL 200	
Dimensions (L x W x H)	196mm x 10mm x 1.5mm
Power	4W
CCT	3000 °K 4000 °K 5000 °K
Lumen	176 208 240
CRI	Std 70 / High 92

XyLite Series XL 150	
Dimensions (L x W x H)	150mm x 10mm x 1.5mm
Power	3W
CCT	3000 °K 4000 °K 5000 °K
Lumen	132 156 180
CRI	Std 70 / High 92

XyLite Series XL 35	
Dimensions (L x W x H)	35mm x 35mm x 1.5mm
Power	3W
CCT	3000 °K 4000 °K 5000 °K
Lumen	132 156 180
CRI	Std 70 / High 92