





Features & Benefits

- The XSA-305 Xicato modular passive LED cooler is specifically designed for luminaires using Xicato LED modules. Mechanical compatibility with direct mounting of the LED modules to the LED cooler and thermal performance matching the lumen packages.
- For spot and downlight designs from 2,100 to 6,500 lumen
- Thermal resistance Rth 1.0°C/W
- Modular design with mounting holes foreseen for direct mounting of Xicato XIM, XTM, XSM LED modules.
- Diameter 111mm Standard height 80mm Other heights on request
- Extruded from highly conductive aluminum
- Optional accessory cover cap XSA-315



Order Information



Example: XSA-305-B

XSA-305- 1

1 Anodising Color

B - Black

C - Clear

The XSA-305 Xicato star LED cooler is designed in this way that you can mount various LED modules on the same LED cooler Simple mounting with pre-tapped screw holes Recommened screw force 6lb/in Screws are avaliable from MechaTronix









Product Details



^{*1 3}D files are avaliable in ParaSolid, STP and IGS on request

To calculate the dissipated power please use the following formula: $Pd = Pe \times (1-\eta L)$

Pd - Dissipated power

Pe - Electrical power

ηL = Light effciency of the LED module

Notes:

- MechaTronix reserves the right to change products or specifications without prior notice.
- Mentioned models are an extraction of full product range.
- $\hbox{- For specific mechanical adaptations please contact MechaTronix.}$



^{*2} The thermal resistance Rth is determined with a calibrated heat source of 30mm x 30mm central placed on the heat sink, Tamb 40° and an open environment. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C

The thermal resistance of a LED cooler is not a fix value and will vary with the applied dissipated power Pd

^{*3} Dissipated power Pd. Reference data @ heat sink to ambient temperature rise Ths-amb 50°C

The maximal dissipated power needs to be verified in function of required case temperature Tc or junction temperature Tj and related to the estimated ambient temperature where the light fixture will be placed

Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module







Mounting Options

The XSA-305 Xicato modular passive LED cooler is standard foreseen from a variety of mounting holes which allow direct mounting of all Xicato Spot and down light LED modules and secondary optics on the LED heat sink.

In this way mechanical afterwork and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED coolers.

Below you find an overview of Xicato LED modules which standard fit on the XSA-305 Xicato LED cooler.

MechaTronix performs thermal validation tests on each of the LED modules mounted on the LED cooler and publishes this data in the LED brand thermal validation reports.

For a full overview of avaliable LED coolers for Xicato LEDs, please refer to the Xicato LED cooler overview on www.led-heatsink.com/Download.php or scan the QR code here.

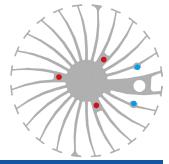
Xicato LED Modules

XICATO

Xicato is changing the way the world looks at light – and enabling everyone to experience it. Xicato believes that with better light, shoppers will buy more, diners will order more and guests will be happier and feel more comfortable. In turn, for owners, operators and managers of environments, better lighting will contribute to high sales, margins and brand perception.

Mounting indicator marks overview

MechaTronix recommends the use of a high thermal conductive interface between the LED module and the LED cooler. Either thermal grease, a thermal pad or a phase change thermal pad thickness 0.1-0.15mm is recommended. Thermal pads or phase change thermal pads can be preapplied from MechaTronix.







Xicato XIM LED modules

Model names

- XIM-19-8027-xx
- XIM-19-8030-xx
- XIM-19-8035-xx
- XIM-19-8040-xx
- XIM-19-V830-xx

Mounting

- Direct mounting with 3 screws M3 x 20mm Red indicator marks
- Optional accessory cover cap with 2 self tapping screws M3 x 6mm Blue indicator marks





Xicato XTM LED modules

Model names

- XTM-19-8027-xx
- XTM-19-8030-xx
- XTM-19-8035-xx
- XTM-19-8040-xx • XTM-19-V830-xx

Mounting

- Direct mounting with 3 screws M3 x 8mm Red indicator marks
- Optional accessory cover cap with 2 self tapping screws M3 x 6mm Blue indicator marks







Model names

- XSM-8027-xxx
- XSM-8030-xxx
- XSM-8040-xxx
- XSM-9527-xxx
- XSM-9530-xxx
- XSM-9540-xxx
- XSM-V830-xxx

Mounting

- Direct mounting with 3 screws M3 x 12mm Red indicator marks
- Optional accessory cover cap with 2 self tapping screws M3 x 6mm
 Blue indicator marks

MechaTronix



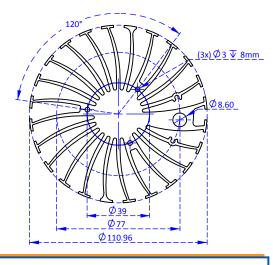


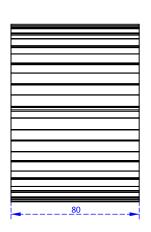


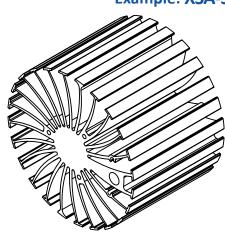


Drawings & Dimensions

Example: XSA-305







Thermal Data

Pd = Pe x (1-ηL)			LED Light efficiency, ηL (%)			Heat sink to ambient thermal resistance R _{hs-amb} (°C/W)	Heat sink to ambient temperature rise T _{hs-amb} (°C)
			17%	20%	25%	XSA-305	XSA-305
Dissipated	10	Electrical	12.0	12.5	13.3	1.3	13
Power Pd(W)	15	Power	18.1	18.8	20.0	1.2	18
	20	Pe(W)	24.1	25.0	26.7	1.15	23
	25		30.1	31.3	33.3	1.08	27
	30		36.1	37.5	40.0	1.07	32
	35		42.2	43.8	46.7	1.03	36
	40		48.2	50.0	53.3	1.0	40
	50		60.2	62.5	66.7	0.98	49
	60		72.3	75.0	80.0	0.95	57

