

CoolStar® 47 Designer series Xicato (XSA-550/551) LED Star Cooler ø47mm

Features & Benefits

- For spot and downlight designs from 1,000 to 2,400 lumen
- Thermal resistance range Rth 4.17 - 5.0°C/W
- Modular design with mounting holes foreseen for Xicato XIM, XTM, XCA LED modules and XOB high-density light sources XOB06, XOB09 and XOB14, direct mounting or by LED holder.
- Designer series with high end looks
- Diameter 47mm - Standard height 40mm & 60mm
Other heights on request
- Black anodized or white electro-coating finishing



Order Information

Zhaga

Xicato®

Example : CoolStar® Black 4740

CoolStar® **1** 47 **2**

- 1** Finishing Color
Black - Black anodized
White - White electro-coating
- 2** Height (mm)
40 = XSA-550
60 = XSA-551

Simple mounting with M3 screws
Recommended screw force 6lb/in
Screws are available from MechaTronix

CoolStar® 47 Designer LED Star Cooler ø47mm

Product Details

Model n°	CoolStar® 4740	CoolStar® 4760
Dimension (mm) ^{*1}	ø47 x h40	ø47 x h60
Volume (mm ³)	28782	44310
Cooling Surface (mm ²)	22470	32762
Weight (gr)	78	117
Thermal Resistance (°C/W) ^{*2}	5	4.17
Power Pd (W) ^{*3}	10	12
Heat Sink Material	AL6063-T5	AL6063-T5

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

^{*2} The thermal resistance Rth is determined with a calibrated heat source of 10mm x 10mm 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

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

Pd - Dissipated power

Pe - Electrical power

η_L = Light efficiency 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.
- For specific mechanical adaptations please contact MechaTronix.