



## EDISON OPTO LED COOLING

EdiLex, EdiPower II and EdiPower III  
LED COB's and modules

- Validated Thermal Designs
- Adaptable to your Needs
- Functional & Aesthetic



## Mastering LED Cooling

With the evolution of LED lighting over the last years, the demand for professional thermal solutions has grown exponentially. And now that we no longer remain in the realm of low power LED's, thermal management becomes a critical factor within LED fixtures. To that end, MechaTronix has developed several series of pin-fin and star heat sinks, manufactured through die casting, forging or extrusion. This has resulted in a comprehensive range of more than 400 off-the-shelf available LED coolers, for passive or active heat dissipation.

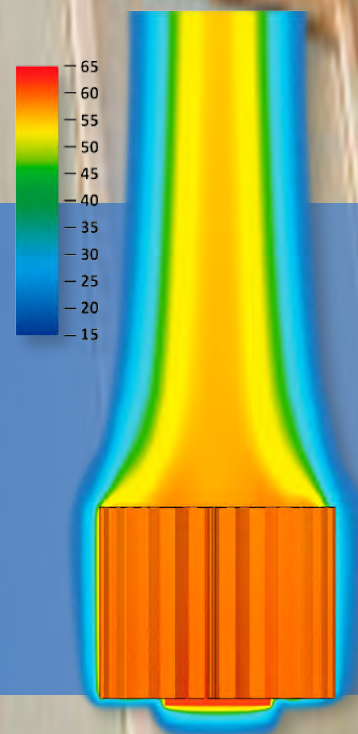
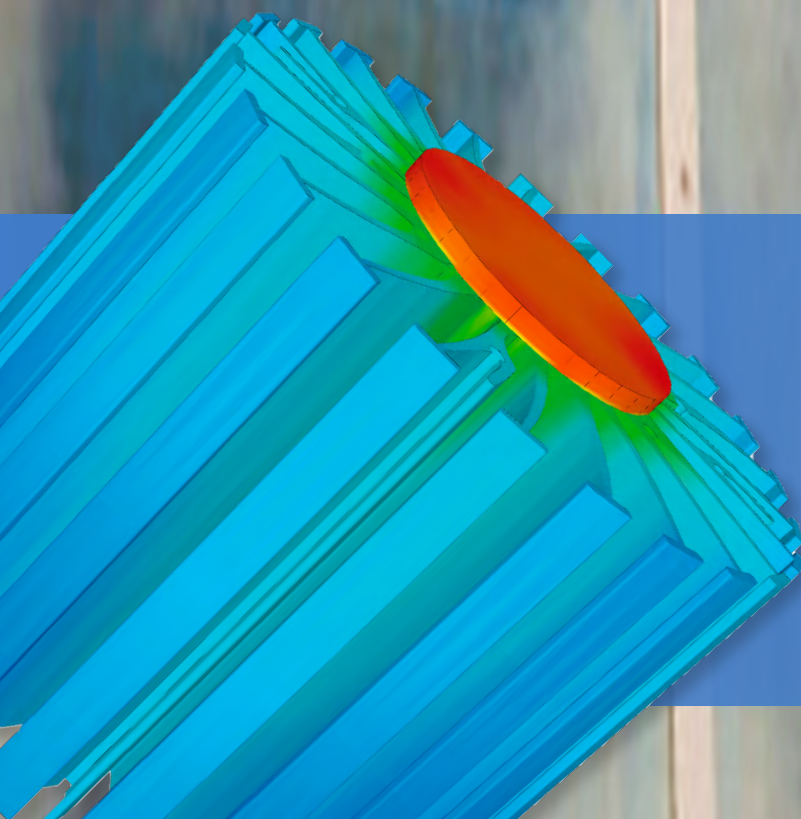
After initial reservations concerning active LED coolers, specialists have found that there really is no better option, when closing in on the 8000 lumen mark. Admittedly, the fan's lifespan becomes somewhat of a focal point in the application of an active LED cooler, but given that the lifespan of the LED engine itself dramatically decreases at high temperatures, the lifespan of the fan looks rather favourable all of a sudden.

MechaTronix' ground breaking ModuLED coolers and its actively cooled sibling IceLED have garnered a lot of attention and positive reviews in the LED market. ModuLED and IceLED are just precursors of a complete range of dedicated and highly effective LED coolers for professional deployment in spotlights, downlights, high bays and a further score of architectural and utility LED applications.

Both ModuLED and IceLED, as well as their upcoming descendants are Zhaga-ready and have a matrix of mounting holes that allows for very easy attachment of a great number of various Edison Opto LED modules. Simply apply a thermal interface of your choice, put the LED engine in place and fasten with self-tapping screws and you are good to go! No drilling, customisation or special mounting brackets are needed.

Thanks to an extremely thorough thermal verification of all heat sink lines, MechaTronix provides total thermal disclosure for each model, coupled with all Edison Opto LED COB's and engines. All thermal data is available in the product specifications, that come with every MechaTronix heat sink. In this way, engineers save time and effort during the design stage of their LED fixture and will significantly shorten their time to market.

## OUR PROCESS STARTS WITH LISTENING



As official solution partner of Edison Opto, MechaTronix has developed a unique range of passive and active LED coolers for the Edison Opto COB LED modules.

Edison Opto COB modules distinguish themselves through the combination of high lumen per watt performance combined with a perfect light quality controll.

The MechaTronix LED coolers outstand in design and thermal performance.

Through the ideal balance between conduction, convection and radiation, these designs result in an optimal cooling capacity in minimal dimensions.

## About Edison Opto

As the official cooling partner of Edison Opto, we have made a comprehensive range of LED coolers available, which diversify themselves from all the other products in the market through an ingenious modularity. Edison Opto Edilex SLM Zhaga book 3 LED module for versatile applications like shop lighting, an Edipower II HM COB for high CRI >95 fashion light luminaires, or a Edipower II HV high-voltage COB for AC driverless designs.

# OUR PROCESS STARTS WITH LISTENING



## EDISON OPTO LED COOLING EdiLex, EdiPower II and EdiPower III LED COB's and modules



### LPF3550-ZHC

Edison Opto LED Pin Fin cooler  
ø35mm - h50mm - Rth 7.41°C/W  
Cooling performance 700 - 1,300 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓		EdiPower II Star series
✓	✓	EdiPower II and EdiPower III HM05, HM09



### LPF4768-ZHP

Edison Opto LED Pin Fin cooler  
ø47mm - h68mm - Rth 3.9°C/W  
Cooling performance 1,300 - 2,500 lm

Direct mount	Zhaga holder	Edison Opto LED COB
	✓	EdiPower II and EdiPower III HM05, HM09, HM13
✓	✓	EdiPower II and EdiPower III HM16 EdiLex Spot Light Module (SLM) 9W, 11W



### LPF6050-ZHC

Edison Opto LED Pin Fin cooler  
ø60mm - h50mm - Rth 4.0°C/W  
Cooling performance 1,200 - 2,300 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓		EdiPower II Star series
✓	✓	EdiPower II and EdiPower III HM05, HM09, HM13
	✓	EdiPower II and EdiPower III HM16, HM24, HM30
✓		EdiLex Spot Light Module (SLM) 9W, 11W, 22W



### LPF6768-ZHP

Edison Opto LED Pin Fin cooler  
ø67mm - h68mm - Rth 2.1°C/W  
Cooling performance 2,300 - 4,600 lm

Direct mount	Zhaga holder	Edison Opto LED COB
	✓	EdiPower II and EdiPower III HM09, HM13
	✓	EdiPower II and EdiPower III HM16, HM24, HM30
✓		EdiLex Spot Light Module (SLM) 9W, 11W, 22W

### LPF8050-ZHC



Edison Opto LED Pin Fin cooler  
 $\varnothing 80\text{mm}$  -  $h 50\text{mm}$  -  $R_{th} 2.34^{\circ}\text{C/W}$   
 Cooling performance 2,000 - 4,000 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM16, HM24, HM30
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM40 EdiLex Spot Light Module (SLM) 9W, 11W, 22W, 35W

### LPF8668-ZHC



Edison Opto LED Pin Fin cooler  
 $\varnothing 86\text{mm}$  -  $h 68\text{mm}$  -  $R_{th} 1.46^{\circ}\text{C/W}$   
 Cooling performance 3,300 - 6,500 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM16, HM24, HM30
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM40 EdiLex Spot Light Module (SLM) 9W, 11W, 22W, 35W

### LPF11180-ZHE



Edison Opto LED Pin Fin cooler  
 $\varnothing 111\text{mm}$  -  $h 80\text{mm}$  -  $R_{th} 1.07^{\circ}\text{C/W}$   
 Cooling performance 4,800 - 9,600 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM16, HM24, HM30
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM40 EdiLex Spot Light Module (SLM) 9W, 11W, 22W, 35W

### CoolStar® White 4740



Edison Opto Designer LED Star cooler  
 $\varnothing 47\text{mm}$  -  $h 40\text{mm}$  -  $R_{th} 5^{\circ}\text{C/W}$   
 Cooling performance 1,000 - 2,000 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM05, HM09

### CoolStar® White 4760



Edison Opto Designer LED Star cooler  
 $\varnothing 47\text{mm}$  -  $h 60\text{mm}$  -  $R_{th} 4.17^{\circ}\text{C/W}$   
 Cooling performance 1,200 - 2,400 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM05, HM09, HM13
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM16

### CoolStar® White 6730



Edison Opto Designer LED Star cooler  
 $\varnothing 67\text{mm}$  -  $h 30\text{mm}$  -  $R_{th} 3.13^{\circ}\text{C/W}$   
 Cooling performance 1,600 - 3,100 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM05, HM09, HM13
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM16

### CoolStar® White 6760



Edison Opto Designer LED Star cooler  
 $\varnothing 67\text{mm}$  -  $h 60\text{mm}$  -  $R_{th} 2.27^{\circ}\text{C/W}$   
 Cooling performance 2,100 - 4,200 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM09, HM13
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM16, HM24, HM30

### CoolStar® White 8630



Edison Opto Designer LED Star cooler  
 $\varnothing 86\text{mm}$  -  $h 30\text{mm}$  -  $R_{th} 2.08^{\circ}\text{C/W}$   
 Cooling performance 2,300 - 4,600 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM13
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM16, HM24, HM30



### CoolStar® White 8660

Edison Opto Designer LED Star cooler  
ø86mm - h60mm - Rth 1.56°C/W  
Cooling performance 3,100 - 6,100 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓	✓	EdiPower II and EdiPower III HM16, HM24, HM30



### ModuLED Pico 4750

Edison Opto Modular LED Star cooler  
ø47mm - h50mm - Rth 5.3°C/W  
Cooling performance 900 - 1,800 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓		EdiPower II Star series
✓	✓	EdiPower II and EdiPower III HM05, HM09, HM13
✓	✓	EdiPower II and EdiPower III HM16
✓		EdiLex Spot Light Module (SLM) 9W, 11W



### ModuLED Pico 4780

Edison Opto Modular LED Star cooler  
ø47mm - h80mm - Rth 4.2°C/W  
Cooling performance 1,200 - 2,300 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓		EdiPower II Star series
✓	✓	EdiPower II and EdiPower III HM05, HM09, HM13
✓	✓	EdiPower II and EdiPower III HM16, HM24
✓		EdiLex Spot Light Module (SLM) 9W, 11W



### ModuLED Nano 7050

Edison Opto Modular LED Star cooler  
ø70mm - h50mm - Rth 2.2°C/W  
Cooling performance 2,200 - 4,300 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓		EdiPower II Star series
✓	✓	EdiPower II and EdiPower III HM09, HM13
✓	✓	EdiPower II and EdiPower III HM16, HM24, HM30
✓		EdiLex Spot Light Module (SLM) 9W, 11W, 22W



### ModuLED Nano 7080

Edison Opto Modular LED Star cooler  
ø70mm - h80mm - Rth 1.8°C/W  
Cooling performance 2,700 - 5,300 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓		EdiPower II Star series
✓	✓	EdiPower II and EdiPower III HM09, HM13
✓	✓	EdiPower II and EdiPower III HM16, HM24, HM30
✓		EdiLex Spot Light Module (SLM) 9W, 11W, 22W, 35W



### ModuLED Micro 8650

Edison Opto Modular LED Star cooler  
ø86mm - h50mm - Rth 1.5°C/W  
Cooling performance 3,200 - 6,400 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓		EdiPower II Star series
✓	✓	EdiPower II and EdiPower III HM09, HM13
✓	✓	EdiPower II and EdiPower III HM16, HM24, HM30
✓		EdiLex Spot Light Module (SLM) 9W, 11W, 22W, 35W



### ModuLED Micro 8680

Edison Opto Modular LED Star cooler  
ø86mm - h80mm - Rth 1.2°C/W  
Cooling performance 4,000 - 8,000 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓	✓	EdiPower II and EdiPower III HM09, HM13
✓	✓	EdiPower II and EdiPower III HM16, HM24, HM30
✓	✓	EdiPower II and EdiPower III HM40
✓		EdiLex Spot Light Module (SLM) 11W, 22W, 35W



### ModuLED 9950

Edison Opto Modular LED Star cooler  
ø99mm - h50mm - Rth 1.34°C/W  
Cooling performance 3,600 - 7,200 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓	✓	EdiPower II and EdiPower III HM16, HM24, HM30
✓	✓	EdiPower II and EdiPower III HM40
✓		EdiLex Spot Light Module (SLM) 9W, 11W, 22W, 35W

### ModuLED 9980



Edison Opto Modular LED Star cooler  
 $\varnothing 99\text{mm}$  -  $h 80\text{mm}$  -  $R_{th} 1.02^{\circ}\text{C/W}$   
 Cooling performance 4,700 - 9,400 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM16, HM24, HM30
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM40
<input checked="" type="checkbox"/>		EdiLex Spot Light Module (SLM) 9W, 11W, 22W, 35W

### ModuLED Mega 13420



Edison Opto Modular LED Star cooler  
 $\varnothing 134\text{mm}$  -  $h 20\text{mm}$  -  $R_{th} 1.32^{\circ}\text{C/W}$   
 Cooling performance 3,700 - 7,300 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM24, HM30
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM40
<input checked="" type="checkbox"/>		EdiLex Spot Light Module (SLM) 11W, 22W, 35W

### ModuLED Mega 13450-HBG



Edison Opto High Bay LED cooler with direct mounting holes for Mean Well HBG series driver  
 $\varnothing 134\text{mm}$  -  $h 50\text{mm}$  -  $R_{th} 0.88^{\circ}\text{C/W}$   
 Cooling performance 5,500 - 11,000 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM24, HM30
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM40
<input checked="" type="checkbox"/>		EdiLex Spot Light Module (SLM) 22W, 35W

### ModuLED Mega 134100-HBG



Edison Opto High Bay LED cooler with direct mounting holes for Mean Well HBG series driver  
 $\varnothing 134\text{mm}$  -  $h 100\text{mm}$  -  $R_{th} 0.67^{\circ}\text{C/W}$   
 Cooling performance 7,200 - 14,300 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM30
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM40
<input checked="" type="checkbox"/>		EdiPower III HM High Power 120W
<input checked="" type="checkbox"/>		EdiLex Spot Light Module (SLM) 35W

### ModuLED Giga 15220



Edison Opto Modular LED Star cooler  
 $\varnothing 152\text{mm}$  -  $h 20\text{mm}$  -  $R_{th} 1.13^{\circ}\text{C/W}$   
 Cooling performance 4,300 - 8,500 lm

Direct mount	Zhaga holder	Edison Opto LED COB
	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM24, HM30
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM40
<input checked="" type="checkbox"/>		EdiLex Spot Light Module (SLM) 22W, 35W

### ModuLED Giga 15250



Edison Opto Modular LED Star cooler  
 $\varnothing 152\text{mm}$  -  $h 50\text{mm}$  -  $R_{th} 0.7^{\circ}\text{C/W}$   
 Cooling performance 6,800 - 13,500 lm

Direct mount	Zhaga holder	Edison Opto LED COB
	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM24, HM30
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM40
<input checked="" type="checkbox"/>		EdiLex Spot Light Module (SLM) 22W, 35W

### ModuLED Giga 152100-HBG



Edison Opto High Bay LED cooler with direct mounting holes for Mean Well HBG series driver  
 $\varnothing 152\text{mm}$  -  $h 100\text{mm}$  -  $R_{th} 0.52^{\circ}\text{C/W}$   
 Cooling performance 9,000 - 18,000 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM30
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM40
		EdiPower III HM High Power 120W, 150W
<input checked="" type="checkbox"/>		EdiLex Spot Light Module (SLM) 35W

### ModuLED Giga 152150-HBG



Edison Opto High Bay LED cooler with direct mounting holes for Mean Well HBG series driver  
 $\varnothing 152\text{mm}$  -  $h 150\text{mm}$  -  $R_{th} 0.46^{\circ}\text{C/W}$   
 Cooling performance 10,500 - 21,000 lm

Direct mount	Zhaga holder	Edison Opto LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EdiPower II and EdiPower III HM40
<input checked="" type="checkbox"/>		EdiPower III HM High Power 120W, 150W



## CoolBay® Giga-A

Edison Opto High Bay LED cooler with CoolTube® heat tube and direct mounting holes for Mean Well HBG series driver  
 ø152mm - h200mm - Rth 0.34°C/W  
 Cooling performance 14,500 - 29,000 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓	✓	EdiPower III HM High Power 120W, 150W



## CoolBay® Tera-A

Edison Opto High Bay LED cooler with CoolTube® heat tube and direct mounting holes for Mean Well HBG series driver  
 ø192mm - h250mm - Rth 0.22°C/W  
 Cooling performance 22,000 - 44,000 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓	✓	EdiPower III HM High Power 150W



## IceLED 450

Edison Opto Modular Active LED cooler  
 ø99mm - h45mm - Rth 0.58°C/W  
 Cooling performance 8,200 - 16,400 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓	✓	EdiPower II and EdiPower III HM24, HM30
✓	✓	EdiPower II and EdiPower III HM40
✓		EdiPower III HM High Power 120W
✓		EdiLex Spot Light Module (SLM) 22W, 35W



## IceLED 550

Edison Opto Modular Active LED cooler  
 ø99mm - h55mm - Rth 0.46°C/W  
 Cooling performance 10,500 - 21,000 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓	✓	EdiPower II and EdiPower III HM24, HM30
✓	✓	EdiPower II and EdiPower III HM40
✓		EdiPower III HM High Power 120W, 150W
✓		EdiLex Spot Light Module (SLM) 35W



## IceLED Ultra

Edison Opto Modular Active LED cooler  
 ø99mm - h75mm - Rth 0.25°C/W  
 Cooling performance 19,000 - 38,000 lm

Direct mount	Zhaga holder	Edison Opto LED COB
✓	✓	EdiPower II and EdiPower III HM24, HM30
✓	✓	EdiPower II and EdiPower III HM40
✓		EdiPower III HM High Power 120W, 150W
✓		EdiLex Spot Light Module (SLM) 35W



## IceLED Ultra VS

Edison Opto Modular Active LED cooler  
 ø99mm - h75mm - Rth 0.26°C/W  
 Cooling performance 14,500 - 29,000 lm

Direct mount	Zhaga holder	Edison Opto LED COB
	✓	EdiPower II and EdiPower III HM24, HM30
	✓	EdiPower II and EdiPower III HM40
✓		EdiPower II HR series 2PHR35
✓		EdiPower II SD series 2PSD40, 2PSD50
✓		EdiLex Spot Light Module (SLM) 35W

Your local distributor:

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