



## CITIZEN LED COOLING

CITILED Version 8, High Intensity Type Version 3  
& Horticulture series

CLU028/02J, CLU038/03J, CLU048/04J, CLU058,  
CLU550, CLU7B2/7A2/702/712  
CLU028-0604C4, CLU04H, CLU05H

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

**CITIZEN**  
Micro HumanTech

**MTX**  
**MechaTronix**

## 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.

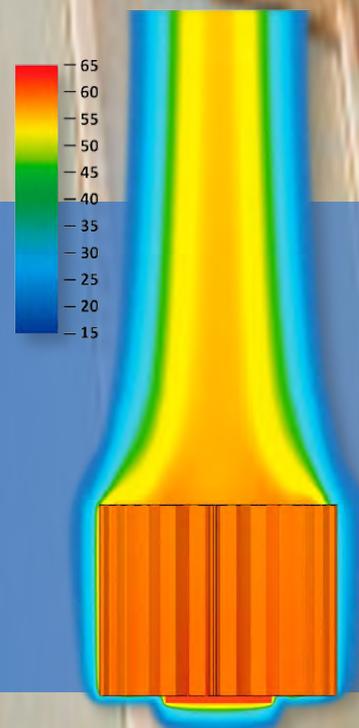
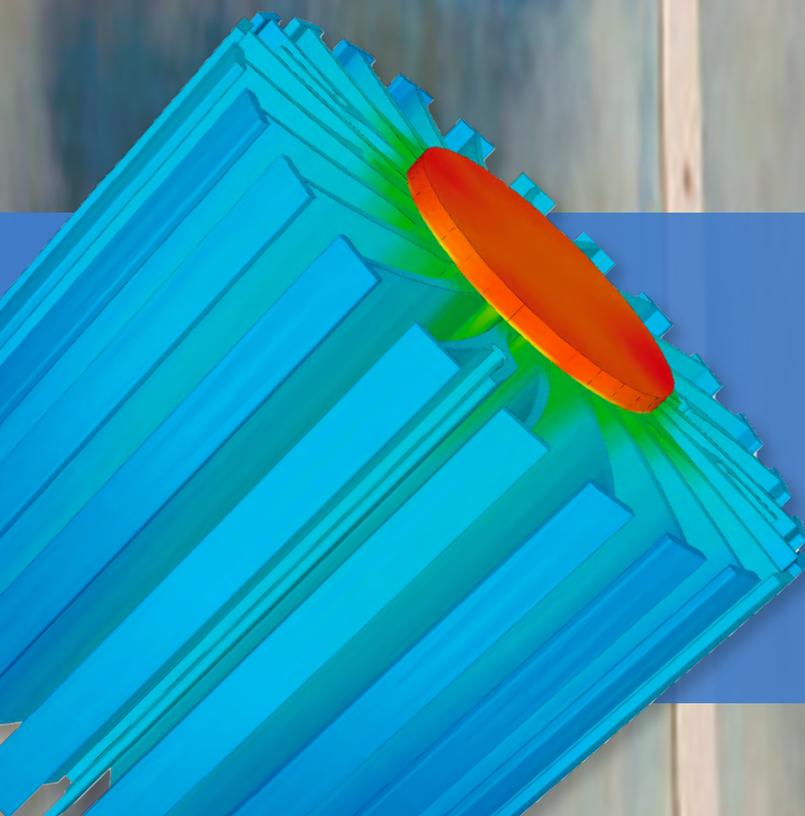
After initial reservations concerning active LED coolers, specialists have found that there really is no better option, when closing in on the 8000 lumen mark. Admittedly, the fan's lifespan becomes somewhat of a focal point in the application of an active LED cooler, but given that the lifespan of the 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 Citizen 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 Citizen CITED 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



# CITIZEN LED COOLING

CITILED Ver. 8, High Intensity Type Ver. 3 & Horticulture series

CLU028/02J, CLU038/03J, CLU048/04J, CLU058, CLU550,  
CLU7B2/7A2/702/712, CLU028-0604C4, CLU04H, CLU05H

## LPF3550-ZHC



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

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028, CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU7B2, CLU7A2

## LPF4768-ZHP



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

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028, CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU7A2, CLU702

## LPF6050-ZHC



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

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028, CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU7A2, CLU702

## LPF6768-ZHP



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

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028, CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU04J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU702
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

## LPF8050-ZHC



Citizen CITILED LED Pin Fin cooler  
ø80mm - h50mm - Rth 2.34°C/W  
Cooling performance 2,000 - 4,000 lm

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU7A2, CLU702
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

## LPF8668-ZHC



Citizen CITILED LED Pin Fin cooler  
ø86mm - h68mm - Rth 1.46°C/W  
Cooling performance 3,300 - 6,500 lm

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

## LPF11180-ZHE



Citizen CITILED LED Pin Fin cooler  
ø111mm - h80mm - Rth 1.07°C/W  
Cooling performance 4,800 - 9,600 lm

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

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CLU7B2/7A2/702/712, CLU028-0604C4, CLU04H, CLU05H

## CoolStar® 4740

Citizen CITILED Designer LED Star cooler  
ø47mm - h40mm - Rth 5°C/W  
Cooling performance 1,000 - 2,000 lm



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028, CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU7B2, CLU7A2, CLU702

## CoolStar® 4760

Citizen CITILED Designer LED Star cooler  
ø47mm - h60mm - Rth 4.17°C/W  
Cooling performance 1,200 - 2,400 lm



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028, CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU7B2, CLU7A2, CLU702

## CoolStar® 6730

Citizen CITILED Designer LED Star cooler  
ø67mm - h30mm - Rth 3.13°C/W  
Cooling performance 1,600 - 3,100 lm



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028, CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU7A2, CLU702

## CoolStar® 6760

Citizen CITILED Designer LED Star cooler  
ø67mm - h60mm - Rth 2.27°C/W  
Cooling performance 2,100 - 4,200 lm



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028, CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU7A2, CLU702
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

## CoolStar® 8630

Citizen CITILED Designer LED Star cooler  
ø86mm - h30mm - Rth 2.08°C/W  
Cooling performance 2,300 - 4,600 lm



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028, CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU702
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

## CoolStar® 8660

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



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

## ModuLED Pico 4750

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



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028, CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU7B2, CLU7A2, CLU702

## ModuLED Pico 4780

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



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028, CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU7A2, CLU702

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CLU7B2/7A2/702/712, CLU028-0604C4, CLU04H, CLU05H

## ModuLED Nano 7050

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



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028, CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU04J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU702
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

## ModuLED Nano 7080

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



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028, CLU02J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU04J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU702
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

## ModuLED Micro 8630

Citizen CITILED Modular LED Star cooler  
ø86mm - h30mm - Rth 1.8°C/W  
Cooling performance 2,700 - 5,300 lm



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

## ModuLED Micro 8650

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



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

## ModuLED Micro 8680

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



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU028
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

## ModuLED 9950

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



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

## ModuLED 9980

Citizen CITILED Modular LED Star cooler  
ø99mm - h80mm - Rth 1.02°C/W  
Cooling performance 4,700 - 9,400 lm



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

## ModuLED Mega 13420

Citizen CITILED Modular LED Star cooler  
ø134mm - h20mm - Rth 1.32°C/W  
Cooling performance 3,700 - 7,300 lm



Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU712

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## ModuLED Mega 13450-HBG



Citizen CITILED High Bay LED cooler with direct mounting holes for Mean Well HBG series driver  
 ø134mm - h50mm - Rth 0.88°C/W  
 Cooling performance 5,500 - 11,000 lm

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J

## ModuLED Mega 134100-HBG



Citizen CITILED High Bay LED cooler with direct mounting holes for Mean Well HBG series driver  
 ø134mm - h100mm - Rth 0.67°C/W  
 Cooling performance 7,200 - 14,300 lm

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J

## ModuLED Giga 15220



Citizen CITILED Modular LED Star cooler  
 ø152mm - h20mm - Rth 1.13°C/W  
 Cooling performance 4,300 - 8,500 lm

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038, CLU03J
	<input checked="" type="checkbox"/>	CLU048, CLU04J
	<input checked="" type="checkbox"/>	CLU712

## ModuLED Giga 15250



Citizen CITILED Modular LED Star cooler  
 ø152mm - h50mm - Rth 0.7°C/W  
 Cooling performance 6,800 - 13,500 lm

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
		CLU058

## ModuLED Giga 152100-HBG



Citizen CITILED High Bay LED cooler with direct mounting holes for Mean Well HBG series driver  
 ø152mm - h100mm - Rth 0.52°C/W  
 Cooling performance 9,000 - 18,000 lm

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
		CLU058

## ModuLED Giga 152150-HBG



Citizen CITILED High Bay LED cooler with direct mounting holes for Mean Well HBG series driver  
 ø152mm - h150mm - Rth 0.46°C/W  
 Cooling performance 10,500 - 21,000 lm

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
		CLU058

## CoolBay® Giga-A



Citizen CITILED 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	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048
	<input checked="" type="checkbox"/>	CLU058

## CoolBay® Giga-B



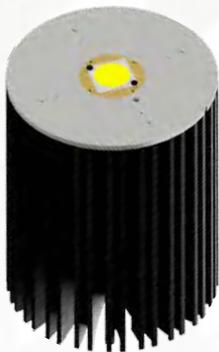
Citizen CITILED High Bay LED cooler with CoolTube® heat tube and direct mounting holes for Mean Well HBG series driver  
 ø152mm - h200mm - Rth 0.34°C/W  
 Cooling performance 14,500 - 29,000 lm

Direct mount	Zhaga holder	Citizen CITILED COB
	<input checked="" type="checkbox"/>	CLU048
	<input checked="" type="checkbox"/>	CLU058

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## CoolBay® Tera-A

Citizen CITILED 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	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU058
		CLU550



## CoolBay® Tera-B

Citizen CITILED 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	Citizen CITILED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU058
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU550



## CoolBlock® SQ-01 2x2MX

Square Pin Fin LED Cooler for 2x2MX platform. Accommodating LED boards with 4 LEDs of Citizen Citiled CLU028-0604C4 COB by using 2x2MX Bender+Wirth holder and Ledil Strada 2x2MX lenses for IP67 waterproof with just a few screws

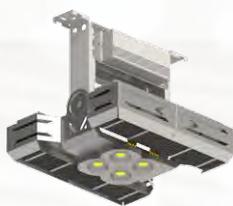
W96mm - L96mm - H61.5mm  
 Thermal resistance Rth 1.45°C/W  
 Cooling performance 3,300 - 6,500 lm  
 Black electro-coating



## CoolFin® Giga

Advanced Ultra High power LED cooler with stackfin and heat pipe structure  
 Accommodating 28x28 LED COB Citizen Citiled CLU048, CLU04J, CLU04H with CoolConnect® holder 2x2HC-01 and 38x38 LED COB Citizen Citiled CLU058, CLU05H with CoolConnect® holder 2x2HC-02 and for multiple brands LED driver & accessories

W468mm - L446mm - H226mm  
 Thermal resistance Rth 0.1°C/W  
 Cooling performance 50,000 - 100,000 lm



## CoolFin® Giga Tilt

Advanced Ultra High power LED cooler with stackfin and heat pipe structure  
 Accommodating 28x28 LED COB Citizen Citiled CLU048, CLU04J, CLU04H with CoolConnect® holder 2x2HC-01 and 38x38 LED COB Citizen Citiled CLU058, CLU05H with CoolConnect® holder 2x2HC-02 and for multiple brands LED driver & accessories

W468mm - L446mm - H394mm  
 Thermal resistance Rth 0.1°C/W  
 Cooling performance 50,000 - 100,000 lm



## IceLED 450

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

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
<input checked="" type="checkbox"/>		CLU058



## IceLED 550

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

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU038
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048, CLU04J
<input checked="" type="checkbox"/>		CLU058



## IceLED Ultra

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

Direct mount	Zhaga holder	Citizen CITILED LED COB
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CLU048
<input checked="" type="checkbox"/>		CLU058

Your local distributor:

OUR PROCESS STARTS WITH LISTENING 



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