

## CoolFin® Giga - High Power heat pipe LED Cooler for Citizen LED COB

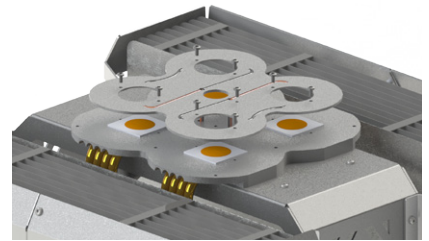
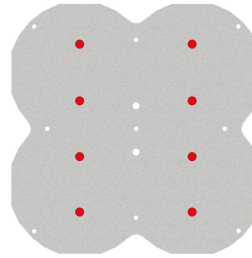
### Mounting Instructions

## CITIZEN

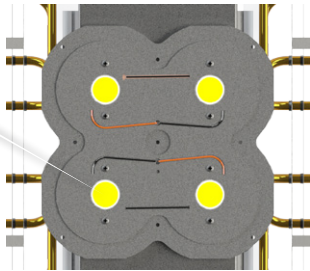
Micro HumanTech

Citizen Electronics Co., Ltd. is a precision electronics manufacturer with headquarters in Fujiyoshida City, Yamanashi Japan. Prefecture and a subsidiary of Citizen Holdings Co., Ltd. Citizen Electronics is a leader in LED light sources for electronic devices and high power white LED lamps. The second generation CITILED CLL LED COB modules and the new upcoming generation CLU distinguish themselves through the combination of high lumen per watt performance combined with a perfect light quality control.

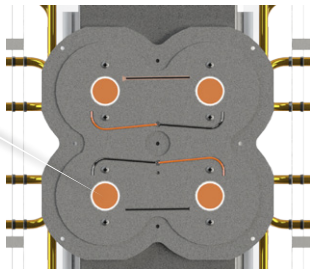
### Mounting indicator marks overview



(4x) Citizen  
28x28mm  
LED COB



(4x) Citizen  
28x28mm  
HC LED COB



### Citizen Citiled CLU048 LED COB

#### Model names

- CLU048-xxxxxx

#### Mounting

- With CoolConnect® holder 2x2HC-01  
( Co-development LED holder with Bender+Wirth )  
Mounting with 8 screws M3 x 6mm  
Red indicator marks

### Citizen Citiled CLU04H Horticulture LED COB

#### Model names

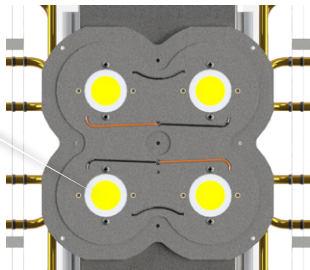
- CLU04H-85/200-PW-01
- CLU04H-85/200-PRB-01

#### Mounting

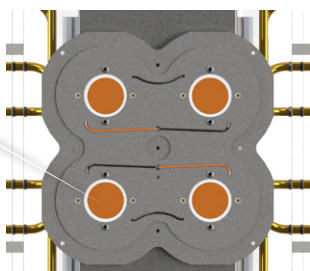
- With CoolConnect® holder 2x2HC-01  
( Co-development LED holder with Bender+Wirth )  
Mounting with 8 screws M3 x 6mm  
Red indicator marks



(4x) Citizen  
38x38mm  
LED COB



(4x) Citizen  
38x38mm  
HC LED COB



### Citizen Citiled CLU058 LED COB

#### Model names

- CLU058-xxxxxx

#### Mounting

- With CoolConnect® holder 2x2HC-02  
( Co-development LED holder with Bender+Wirth )  
Mounting with 8 screws M3 x 6mm  
Red indicator marks

### Citizen Citiled CLU05H Horticulture LED COB

#### Model names

- CLU05H-170/400-PW-01
- CLU05H-170/400-PRB-01

#### Mounting

- With CoolConnect® holder 2x2HC-02  
( Co-development LED holder with Bender+Wirth )  
Mounting with 8 screws M3 x 6mm  
Red indicator marks