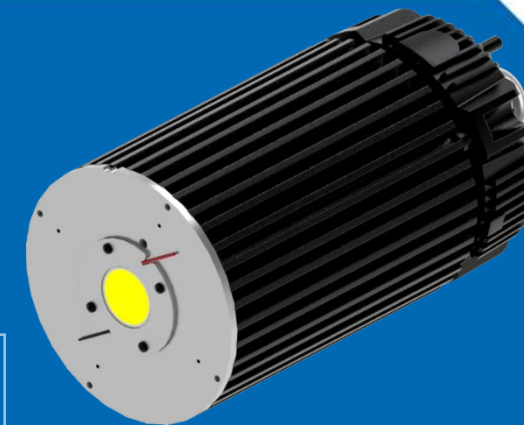


# Thermal Test Report

## CoolBay® Giga Medium-01 + Citizen CLU048-1818C4-403M2K1

- Measurement of the temperature rise and case temperature of Citizen CLU048-1818C4-403M2K1 emitters with Bender+Wirth CoolConnect® holder COB 28x28.
- Under various driving currents 2600mA.



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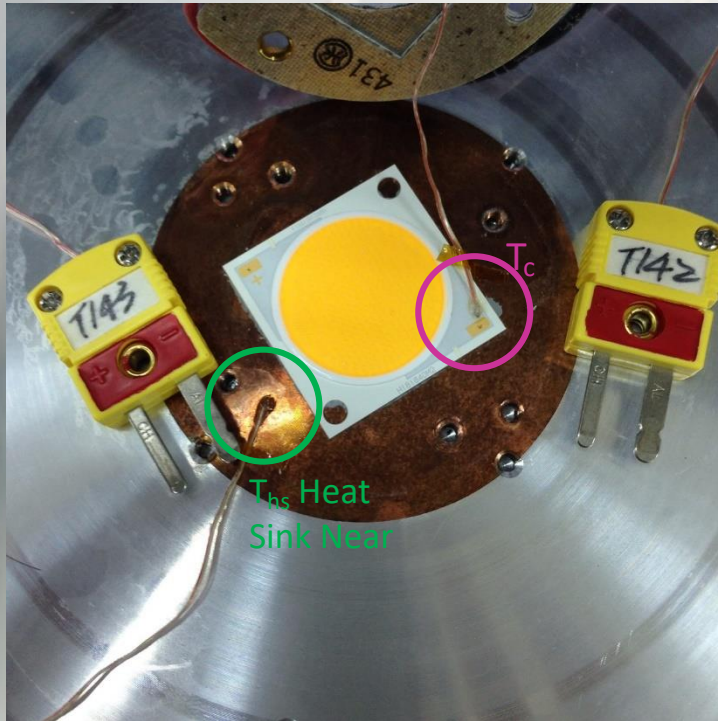
### **MechaTronix**

[www.led-heatsink.com](http://www.led-heatsink.com)

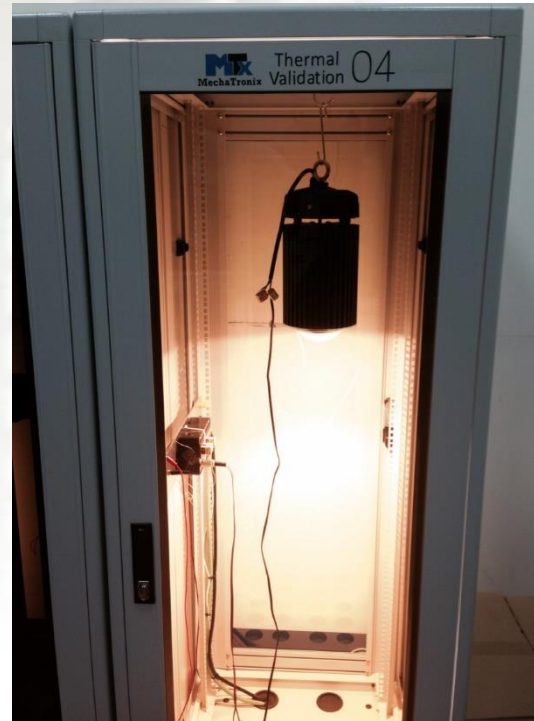
Tel: +886-7-381-5892 | Fax: +886-7-383-9293

No.818, Dashun 2nd Rd., Sanmin Dist., Kaohsiung City 80787, Taiwan

# • Test Setup



Locations of  $T_c$  and  $T_{hs}$  Heat Sink Near

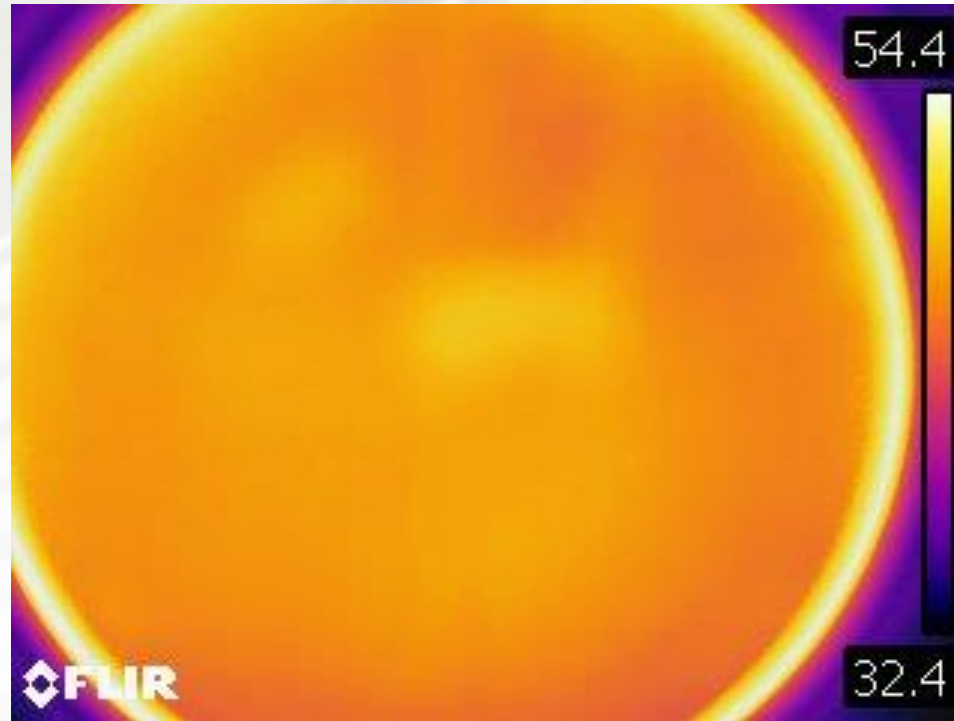


Test Set-up

- Heat sink:  
CoolBay® Giga-B
- LED package:  
Citizen CLU048-1818C4-403M2K1
- LED driver:  
Mean Well HBG-160-60&HBG driver ring-01(M10)
- Connector set:  
HBG-160 connector set
- LED holder:  
Bender+Wirth CoolConnect® holder COB 28x28
- LED lens:  
CoolBay Lens 90° Clear
- Thermal pad:  
PSX-D
- If (mA):  
2600

# • IR Images

Photo by Infrared Camera  
Model: FLIR-T62101



If: 2600mA

# Results Table

If (mA)	Stablization Time (Sec)	T <sub>c</sub> (°C)	T <sub>hs</sub> (°C)	T <sub>ambient</sub> (°C)	$\Delta T_{hs-amb}$ heat sink rise temperature (°C)
2600	28850	67.11	65.01	27.54	39.57

# Temperature Rise Curves

