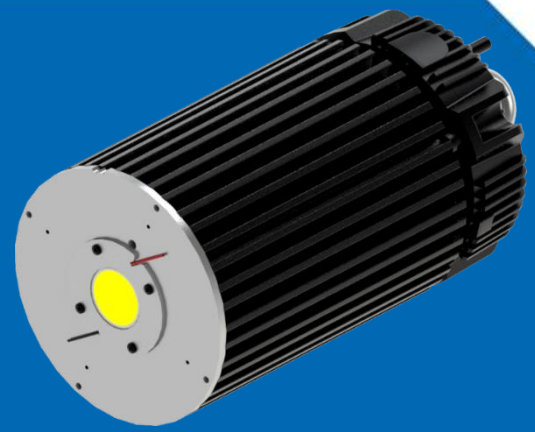
MechaTronix

Thermal Test Report

CoolBay® Tera Medium-01 + Citizen CLU058-1825C4-403M2K1



- Measurement of the temperature rise and case temperature of Citizen CLU048-1818C4-403M2K1 emitters with Bender+Wirth CoolConnect ® holder COB 38x38.
- Under various driving currents 4000mA.

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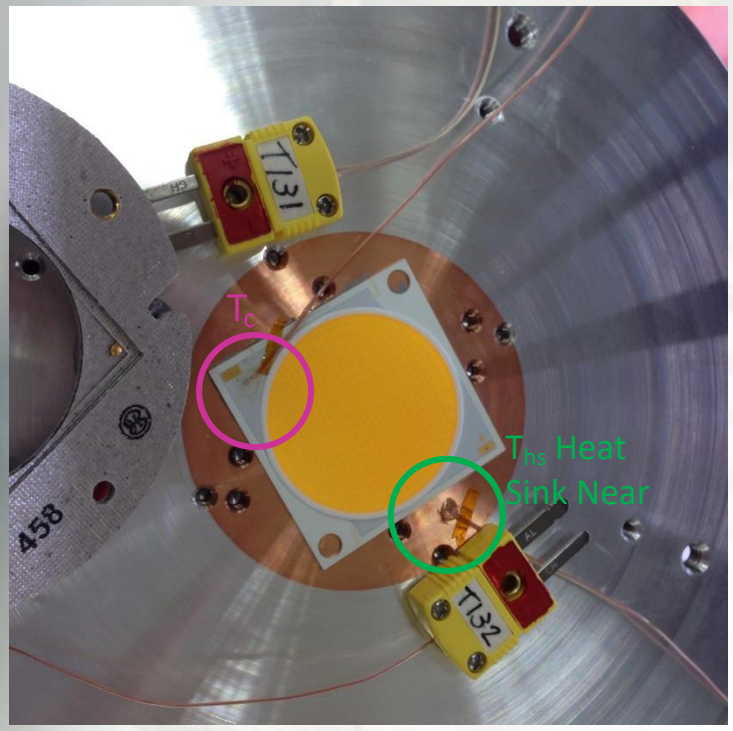
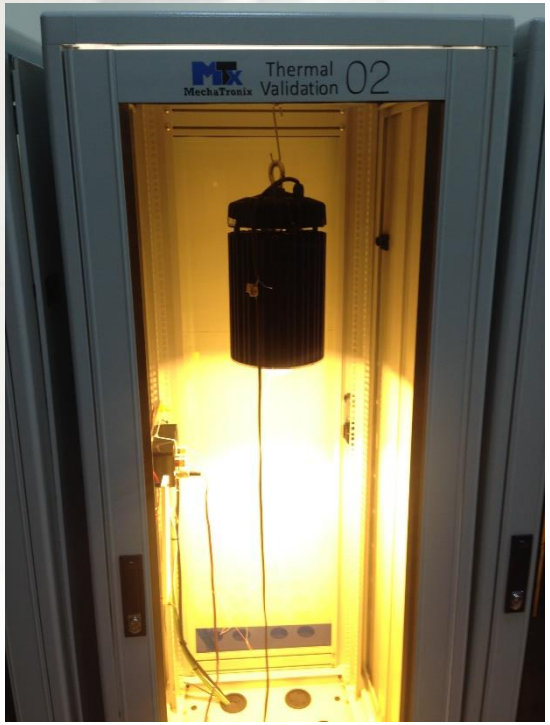
· Test Setup



Locations of T_c and T_{hs} Heat Sink Near

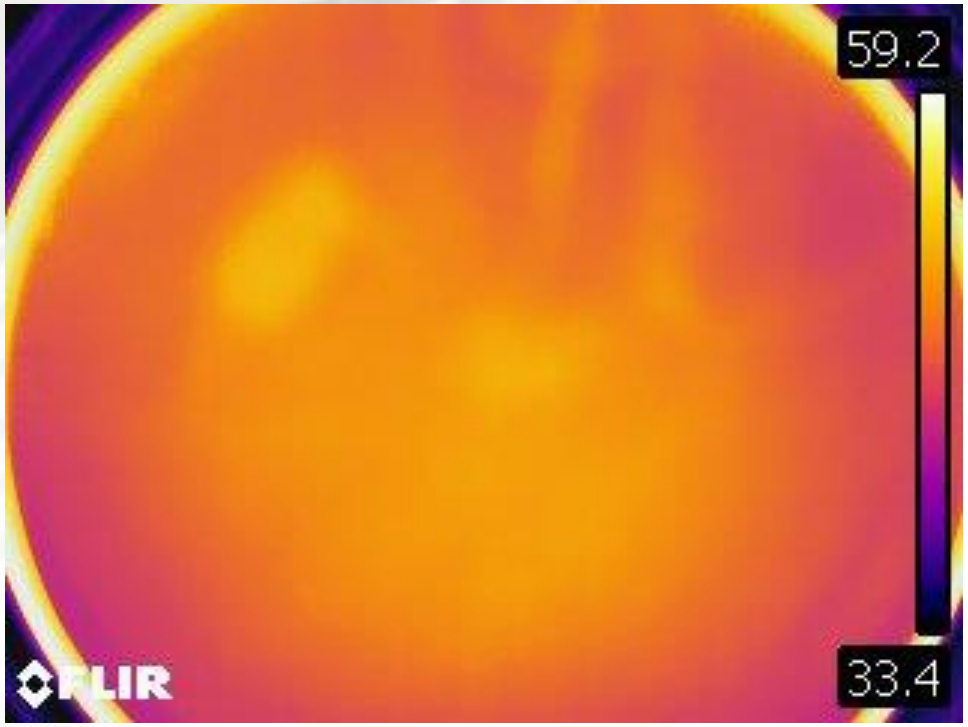


Test Set-up

- Heat sink:
  CoolBay® Tera-B
- LED package:
  Citizen CLU058-1825C4-403M2K1
- LED driver:
  Mean Well HBG-240-60&HBG driver ring-02(M12)
- Connector set:
  HBG-240 connector set
- LED holder:
  Bender+Wirth CoolConnect ® holder COB 38x38
- LED holder:
  CoolBay Lens 90 ° Clear
- Thermal pad:
  PSX-D
- If (mA):
  4000

· IR Images

Photo by Infrared Camera
Model: FLIR-T62101



If: 4000mA

· Results Table

If (mA)	Stablization Time (Sec)	T_c (°C)	T_{hs} (˚C)	$T_{ambient}$ (˚C)	$\Delta T_{hs\text{-}amb}$ heat sink rise temperature (˚C)
4000	27640	69.00	68.92	28.08	40.92

· Temperature Rise Curves