

Thermal Test Report



CoolBlock® SQ-01-2x2MX + Lumileds Luxeon XR-M L2M0- 4070004MC2200(Tilted)

- Measurement of the temperature rise and case temperature of 4 pcs Lumileds Luxeon M emitters on the Lumileds Luxeon XR-M 2X2MX platform.
- Under various driving currents 700mA and 1050mA.



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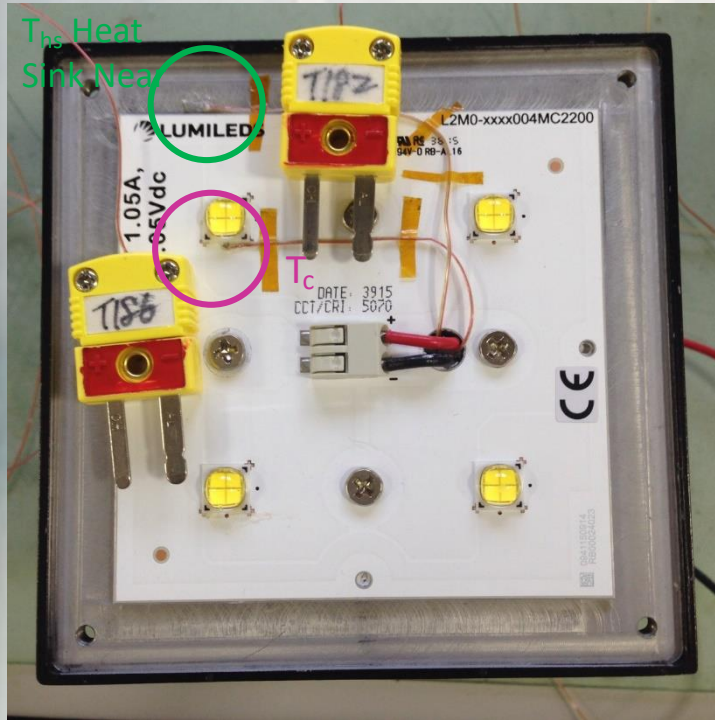
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• Test Setup



Locations of T_c and T_{hs} Heat Sink Near

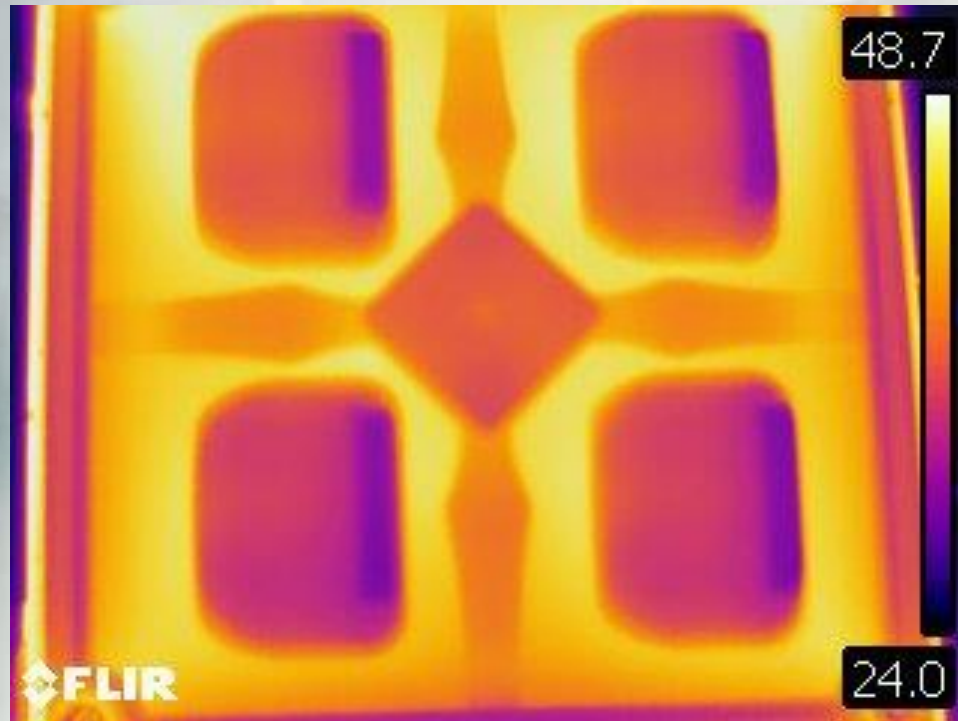


Test Set-up

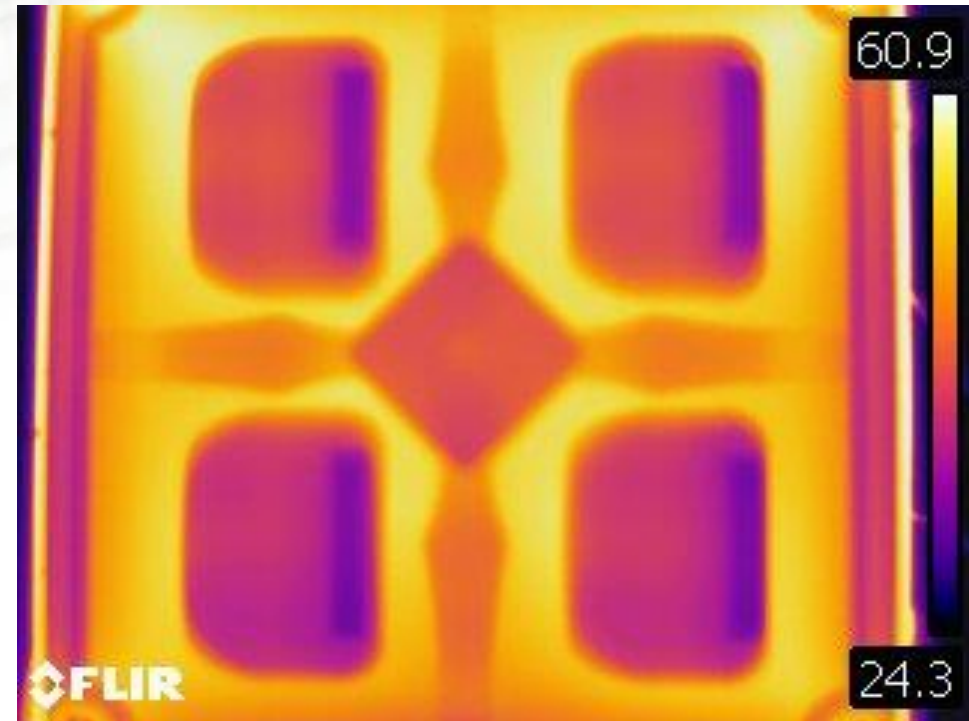
- Heat sink:
CoolBlock® SQ-01-2x2MX
- LED package:
LUXEON XR-M L2M0-4070004MC2200
- LED lens:
Ledil 2x2MX 4630/2
- Thermal pad:
Laird Tgrease 1500
- If (mA):
700 / 1050
- Orientation:
Tilted 45°

• IR Images

Photo by Infrared Camera
Model: FLIR-T62101



If: 700mA



If: 1050mA

Results Table

If (mA)	Vf (V)	P (W)	Stablizati on Time (Sec)	T _c (°C)	T _{hs} (°C)	T _{ambient} (°C)	ΔT_{hs-amb} heat sink rise temperature (°C)
700	44.34	31.03	14230	57.62	50.85	22.80	34.82
1050	44.47	46.7	29510	75.15	64.00	23.10	52.05

Temperature Rise Curves

