Laboratory Service PHYSICAL TEST REPORT



R-Tech

Rue de Mons 3 – B-4000 Liège – Belgium Tel.: +32 4 224 71 40 – Fax: +32 4 224 25 90 Member of Schréder Group

Operator: LEONARD Philippe

Subject: CITEA MINI NG 48 led's

Sample n°: P-E16015, P-E16098

<u>Test purpose</u>: Thermal test evaluation @ 350 & 500 mA following IEC/EN 60598-1 Standard

Remarks:

Test request n°: P-D16142 Folder n°: P-F16004

TEST CONDITIONS:



Load: 48 led's

PCBA: 2x 24 led's

Driver: PHILIPS Xi LP 75 W 0.2 – 0.7 A SI 230 V S240 sXt

Ref: 9290 009 63206

Measurement device:

Yokogawa TX10: thermal measurement Yokogawa WT 210: primary EM Fluke 87: secondary and led's EM

Junction Temperature measurement method

Junction temperature measurement by base temperature measurement and electrical measurement. $T_{b}^{\circ} = T_{b}^{\circ} + R_{ib} \times P_{led}$

CONCLUSIONS:



@ 500 mA

Ta (IEC): 55 °C limited by Driver Tq (IEC): >35 °C limited by Driver

Tq given for 100 khrs of lifetime

T° given without wind effect to comply with IEC 62722-2-1

Duplicate to: Mr M. Thijs

LAB 09/03/2016

L. Maghe

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