

# Laboratory Test report

FORM L-54 Edition 01 – Revision 00 – Date: 14/06/2018

## Thermal Test LED

### General information

Subject : VOLTANA 0 - 8 LEDs Oram 50 W driver

Created on : 08/11/2018

Validated on : 21/11/2018

Test number : D180791

Reference norm : IEC/EN 60598-1 Standard

Sample(s) : E180590

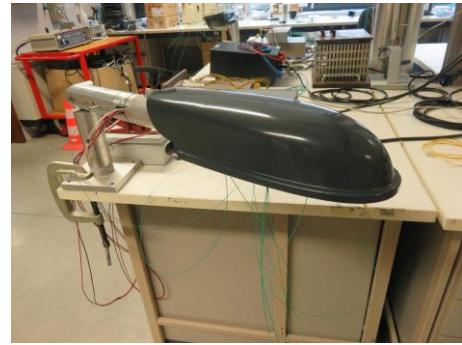
Folder : P-F16041

### Test conditions

Luminaire : VOLTANA 0

Operator : MESPOUILLE Loic

Number of LED : 8



Driver : Optotronic OT50/120-277/1A2 2DIM LT2 P / 00-14-565

Driver info : Tc (max: 80°C)

Driver current (mA) : 1250

SPD : Vossloh Lighting Solutions SPC3 230/10 K

Measurements devices :

Fluke Norma 4000 - HF Powermeter - (E110) : Electrical measurements

IMG\_0885

Keithley 2701 (E097) – Ethernet Multimeter/Data Acquisition System :

Thermal & VF led measurements

Power Supply :

APT 300XAC AC power supply (E096)

Supply voltages: 230 V 50 Hz

Junction Temperature measurement method : Junction temperature

measurement by base temperature measurement and electrical

measurement.  $T_{j} = T_{b} + R_{jb} \times P_{led}$

### Conclusion



Informative

Ta: 40°C limited by lenses and driver; according IEC 60598-2-3 and IEC 60598-2-5 (outdoor use only)

Ta: 30°C limited by lenses and driver; indoor use and UL standard

Tq: 15°C limited by lenses and driver; according IEC 62722-2-1

Tq given for 100 khrs of lifetime

Validated by :

GHYSENS Gilles

Duplicate to : BOS Peter

LAB : 22/11/2018

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