# Laboratory Test report

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

# Thermal Test LED

## General information

<u>Subject</u> : VOLTANA 0 - 8 LEDs Oram 50 W driver <u>Created on</u> : 08/11/2018 <u>Validated on</u> : 21/11/2018 <u>Test number</u> : D180791 <u>Reference norm</u> : IEC/EN 60598-1 Standard <u>Sample(s)</u> : E180590 <u>Folder</u> : P-F16041

#### Test conditions

<u>Luminaire</u> : VOLTANA 0 <u>Number of LED</u> : 8

<u>Driver</u> : Optotronic OT50/120-277/1A2 2DIM LT2 P / 00-14-565 <u>Driver info</u> : Tc (max: 80°C) <u>Driver current (mA)</u> : 1250 <u>SPD</u> : Vossloh Lighting Solutions SPC3 230/10 K

<u>Measurements devices</u> : Fluke Norma 4000 - HF Powermeter - (E110) : Electrical measurements Keithley 2701 (E097) – Ethernet Multimeter/Data Acquisition System : Thermal & VF led measurements

<u>Power Supply</u> : APT 300XAC AC power supply (E096) Supply voltages: 230 V 50 Hz

<u>Junction Temperature measurement method</u> : Junction temperature measurement by base temperature measurement and electrical measurement.T°j =T°b + Rjb x Pled

### 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

Append

Duplicate to : BOS Peter

LAB : 22/11/2018

#### <u>Operator</u> : MESPOUILLE Loic



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The publication of this report in another form than the original one is not allowed without agreement of the laboratory. This report concerns type tests on one or a series of specimens.



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