

## 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  
Number of LED : 8

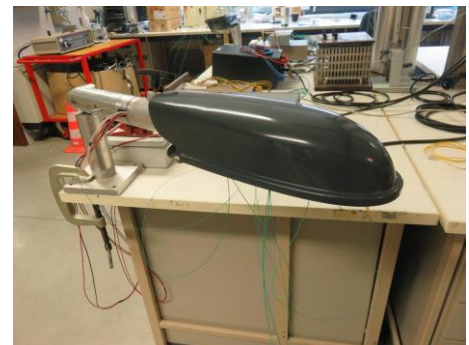
Driver : Optotronic OT50/120-277/1A2 2DIM LT2 P / 00-14-565  
Driver info : Tc (max: 80°C)  
Driver current (mA) : 1250  
SPD : Vossloh Lighting Solutions SPC3 230/10 K

Measurements devices :  
Fluke Norma 4000 - HF Powermeter - (E110) : Electrical measurements  
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.  $T^j = T^b + R_{jb} \times P_{led}$

Operator : MESPOUILLE Loic



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### 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 : Duplicate to : BOS Peter  
GHYSENS Gilles LAB : 22/11/2018

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