

## Thermal Test LED

### General information

Subject : VOLTANA 2 - 16 LEDs Philips 75 W driver  
Created on : 08/11/2018  
Validated on : 21/11/2018  
Test number : D180797  
Reference norm : IEC/EN 60598-1 Standard  
Sample(s) : E180607  
Folder : P-F14058

### Test conditions

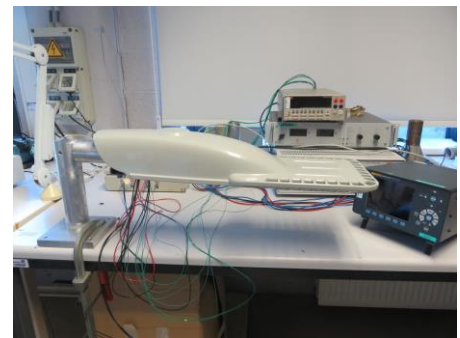
Luminaire : VOLTANA 2  
Number of LED : 16  
Driver : Xitanium FP 75W 0.3-1.0A SNLDAE 230V C133 sXt / 00-49-490  
Driver info : Tc (max) 80 °C  
Driver current (mA) : 1000  
SPD : vossloh spc3/230/10K/i

Measurements devices :  
Fluke Norma 4000 - HF Powermeter - (E110) : Electrical measurements  
Keithley 2701 (E081) – Ethernet Multimeter/Data Acquisition System :  
Thermal & VF led measurements

Power Supply :  
APT 300XAC AC power supply (E102)  
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 : KOY Fiston



IMG\_0838

### Conclusion



#### Informative

Ta: 50°C limited by lenses; according IEC 60598-2-3 and IEC 60598-2-5 (outdoor use only)  
Ta: 40°C limited by lenses; indoor use and UL standard  
Tq: 25°C limited by lenses; 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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