

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

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

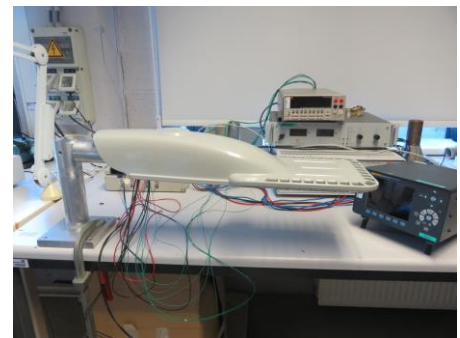
Luminaire : VOLTANA 2
Number of LED : 16
Driver : Xitanium FP 75W 0.3-1.0A SNLDAE 230V C133 sXt / 00-49-490
Driver info : Tc (max) 80 °C
Driver current (mA) : 1000
SPD : vossloh spc3/230/10K/i

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. $T^{\circ}j = T^{\circ}b + R_{jb} \times P_{led}$

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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