

Electrical measurements

General information

Subject : VOLTANA 2 - 16 LEDs Philips 75 W driver

Asked by : PELBÁRT Péter

Created on : 08/11/2018

Validated on : 13/12/2018

Test number : D180798

Sample(s) : E180607

Folder : P-F14058

Test conditions

Luminaire : VOLTANA 2

Number of LED : 16

LED : LG Innotech 3535 Gen4 TOP

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 :

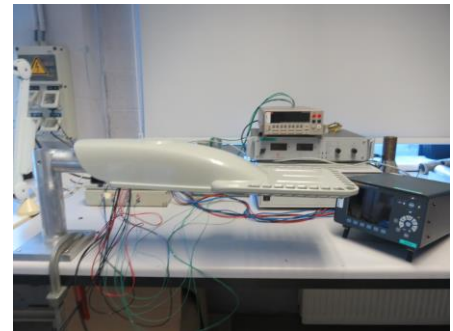
Thermal & VF led measurements

Power supply :

APT 300XAC AC power supply (E102)

Supply voltages: 230 V 50 Hz

Operator : KOY Fiston



IMG_0839

Conclusion



Informative

PF : 0,98

Efficiency : 90,0%

THD : 7,8%

OK according to IEC 61000-3-2, Class C, > 25 W

Validated by :

GHYSENS Gilles

Duplicate to : VERBEECK Philippe, PELBÁRT Péter, HORVÁTH

Csaba, BEDŐ Péter, BOS Peter

LAB : 17/12/2018

D180798

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Measurements

Test(s)

Name	Description	Result
Test @ 1000 mA		Success

Test @ 1000 mA

Annex(es)

Harmonic current emissions (IEC 61000-3-2, Class C, > 25W)

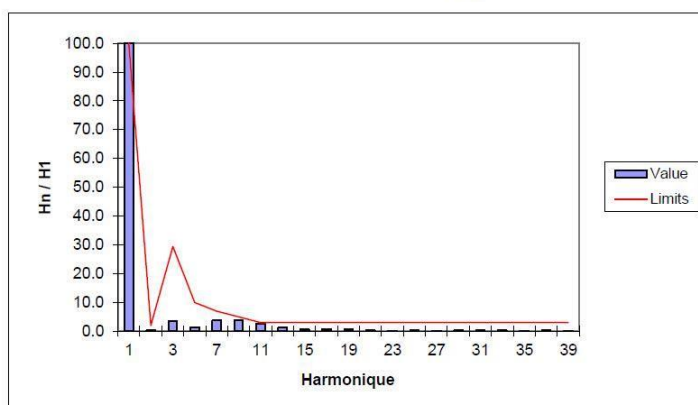
Driver :Xtitanium FP 75W 0.3-1.0A SNLDAE 230V C133 sXt / 00-49-490 Tc (max) 80 °C
SPD :Vossloh spc3/230/10K/i

Date 13/11/2018

Operator FKY Norma AQ number E110

Power Factor 0.9826 Cos $\varphi_{(H01)}$ 0.9856

Harmonic	Taux (%)	Limite (% H1)
1	100.0	100.0
2	0.3	2.0
3	3.7	29.5
5	1.3	10.0
7	3.8	7.0
9	3.9	5.0
11	2.5	3.0
13	1.3	3.0
15	0.7	3.0
17	0.8	3.0
19	0.7	3.0
21	0.3	3.0
23	0.2	3.0
25	0.3	3.0
27	0.2	3.0
29	0.3	3.0
31	0.3	3.0
33	0.3	3.0
35	0.2	3.0
37	0.3	3.0
39	0.1	3.0



input		output 1	
Urms	229.9 V	Urms	48.5 V
Irms	0.237 A	Irms	0.995 A
Prms	53.7 W	Prms	48.3 W
S	54.6 VA		
Q	-10.1 VAR		
PF	0.9826		
$I_{(H01)}$	0.237 A	Uavg	48.5 V
Cos $\varphi_{(H01)}$	0.9856	Iavg	0.995 A
η_{rms}	90.0%	Pavg	48.3 W
η_{avg}	90.0%		
THD	7.8%		

voltana2_16led_phil_elec