

Electrical measurements

General information

Subject : VOLTANA 1 - 8 led's SAMSUNG LH351C - Meanwell 40W driver - 1400mA

Asked by : PELBÁRT Péter

Created on : 25/02/2019

Validated on : 21/03/2019

Test number : D190149

Sample(s) : E180663, E190099

Folder : P-F18051

Test conditions

Luminaire : VOLTANA 1

Number of LED : 8

LED : Samsung LH351C

Driver : Meanwell 40W 1400mA PLD-Series / 00-73-737

Driver current (mA) : 1400

SPD : Vossloh Lighting Solutions SPC3 230/10 K

Measurements devices :

Fluke Norma 4000 - HF Powermeter - (E068) : Electrical measurements

Power supply :

APT 300XAC AC power supply (E103)

Supply voltages: 230 V 50 Hz

Operator : KOY Fiston



IMG_2343

Conclusion



Informative

PF : 0,97

Efficiency : 85,2%

THD : 16,0%

Harmonics : 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 : 26/03/2019

D190149

1/2

Measurements

Test(s)

Name	Description	Result
Test @ 1400mA		Informative

Test @ 1400mA

Annex(es)

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

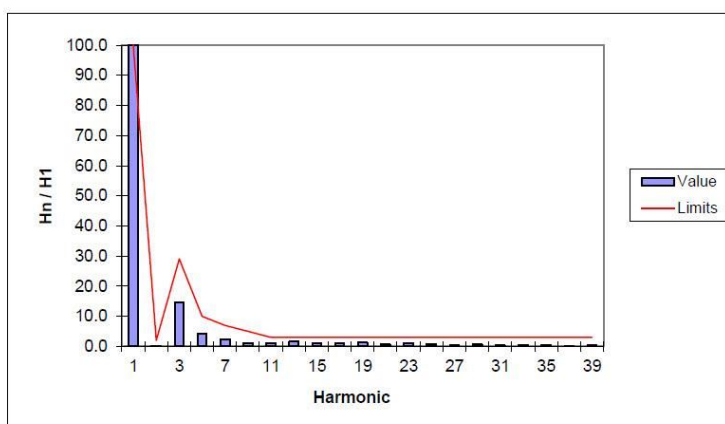
Driver : Meanwell 40W 1400mA PLD-Series / 00-73-737 Tc max 90°C
SPD: Vossloh Lighting Solutions SPC3 230/10 K

Date 06-03-19

Operator FKY Norma AQ number E068

Power Factor 0.9693 Cos $\varphi_{(H01)}$ 0.9816

Harmonic	Taux (%)	Limite (% H1)
1	100.0	100.0
2	0.2	2.0
3	14.7	29.1
5	4.3	10.0
7	2.5	7.0
9	1.0	5.0
11	1.0	3.0
13	1.7	3.0
15	1.0	3.0
17	1.2	3.0
19	1.3	3.0
21	0.7	3.0
23	1.0	3.0
25	0.8	3.0
27	0.5	3.0
29	0.7	3.0
31	0.4	3.0
33	0.4	3.0
35	0.5	3.0
37	0.2	3.0
39	0.3	3.0



input		output 1	
Urms	230.0 V	Urms	24.8 V
Irms	0.181 A	Irms	1.391 A
Prms	40.3 W	Prms	34.3 W
S	41.5 VA		
Q	-10.2 VAR		
PF	0.9693		
$I_{(H01)}$	0.178 A	Uavg	24.7 V
CoS $\varphi_{(H01)}$	0.9816	Iavg	1.384 A
η_{rms}	85.2%	Pavg	34.3 W
η_{avg}	85.1%		
THD	16.0%		

VOLTANA 1- 8 SAMSUNG LH351C - Meanwell 40W - 1400m