

Electrical measurements

General information

Subject : IZYLUM Size 3 - 60 led's LH351C - OSRAM 100W driver 600mA - Nema - CL II

Asked by : SZÜGYI János Péter

Created on : 25/10/2019

Test number : D191001

Sample(s) : E190757

Folder : P-F19086

Test conditions

Luminaire : IZYLUM 3

Number of LED : 60

LED : Samsung LH351C

Driver : Optotronic OT100/120-277/800 2DIM LT2 P / 00-14-566

Number of driver(s) : 1

Driver current (mA) : 600

Driver info : Tc (max) 85 °C

SPD : Izyhub full control fuse CLII 01-01-810

Operator : KOY Fiston



IMG_5370

Conclusion



Informative

Conclusion :

PF : 0,98

Efficiency : 90,9%

THD : 11,4%

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

Validated by :

GHYSENS Gilles

Duplicate to : SZÜGYI János Péter, HORVÁTH Csaba, BEDŐ

Péter, BOS Peter

LAB : 19/11/2019

D191001

1/3



Test(s) details

Test(s)

Name	Description	Result
Test @ 600mA		Success

Test @ 600mA

Annex(es)

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

Driver : Optotronic OT100/120-277/800 2DIM LT2 P / 00-14-566

Tc (max) 85 °C

Date : 05/11/2019

Operator

FKY

Norma AQ number

E110

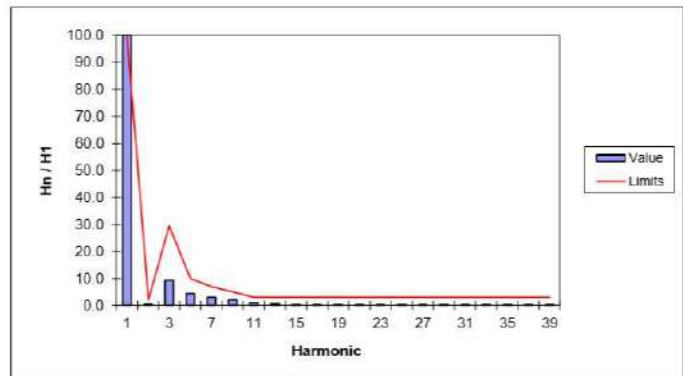
Power Factor

0.9826

cos φ (20%)

0.9889

Harmonic	Taux (%)	Limite (% H1)
1	100.0	100.0
2	0.4	2.0
3	9.4	29.5
5	4.3	10.0
7	3.0	7.0
9	2.0	5.0
11	1.2	3.0
13	0.7	3.0
15	0.4	3.0
17	0.2	3.0
19	0.1	3.0
21	0.1	3.0
23	0.2	3.0
25	0.2	3.0
27	0.2	3.0
29	0.2	3.0
31	0.2	3.0
33	0.1	3.0
35	0.2	3.0
37	0.1	3.0
39	0.1	3.0



input		output 1	
Urms	229.9 V	Urms	170.2 V
Irms	0.520 A	Irms	0.628 A
Prms	117.5 W	Prms	106.8 W
S	119.6 VA		
Q	-22.2 VAR		
PF	0.9826		
I _{avg}	0.517 A	Uavg	170.2 V
cos φ (20%)	0.9889	Iavg	0.627 A
η rms	90.9%	Pavg	106.7 W
η avg	90.9%		
THD	11.4%		

IZYLUM Size 3 - 60 LH351C - OSRAM 100W

Measurement equipment :

Norma 4000 (E110)
APT (E102)

Quantities measured :

Qualification of the thermal limits and measurement of the electrical behavior of a luminaire according to PT-S-07

Uncertainties :

Statement of uncertainties (K=2, 95% of confidence level):

Temperature: 0,6 °K

Voltage (AC): 0,33%

Current (AC): 0,33 %

Power (AC): 0,27%

Voltage (DC): 0,3 %

Current (DC): 0,3%

Power (DC): 0,23%

Anemometer: $\pm 0,27$ m/s

Decision rules :

No pass/fail criteria applied on electrical measurements

End of test report :
