

Electrical measurements

General information

Subject : IZYLUM Size 2 - 40 LH351C - MW 75W - 500mA - Nema - CL I (N#16)

Asked by : SZÜGYI János Péter

Created on : 09/12/2019

Started on : 16/12/2019

Test number : D191136

Sample(s) : E190883

Folder : P-F19085

Test conditions

Luminaire : IZYLUM 2

Operator : Philippe Léonard

Number of LED : 40

LED : Samsung LH351C

Driver : Meanwell 60~75W 0.5A 1-10V / 00-82-966

Number of driver(s) : 1

Driver current (mA) : 500

Control system : Colosio Nema with short cut

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

Power supply :

230 Volts 50Hz

Conclusion



Informative

PF : 0,96

Efficiency : 90,7%

THD : 9,9%

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

Validated by :

Maghe Laurent



Duplicate to : SZÜGYI János Péter, HEYMANS Tom, LÁMFALUSI Ferenc,
HORVÁTH Csaba, BEDŐ Péter, BOS Peter

LAB : 17/12/2019

D191136

1/3

Test(s) details

Test(s)

Name	Description	Result
Test @ 500mA		Informative

Test @ 500mA

Annex(es)

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

Driver: Meanwell 60~75W 0.5A 1-10V / 00-82-966
Set on: 500mA

Date 16/12/2019

Operator

PLD

Norma AQ number

E068

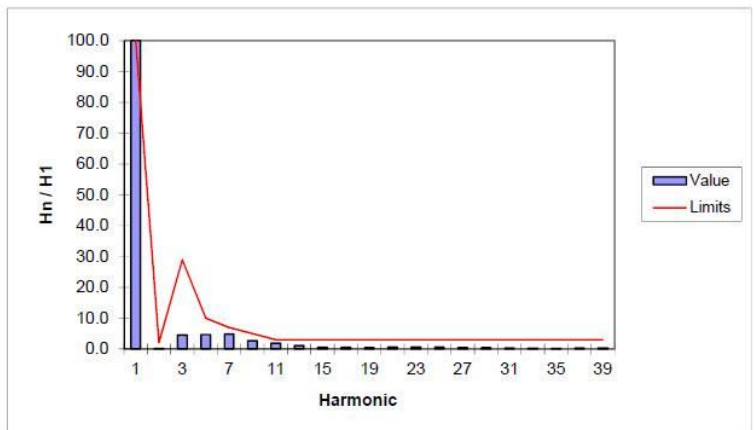
Power Factor

0.9654

Cos $\varphi_{(H01)}$

0.9701

Harmonic	Taux (%)	Limite (% H1)
1	100.0	100.0
2	0.2	2.0
3	4.5	29.0
5	4.6	10.0
7	4.9	7.0
9	2.7	5.0
11	1.9	3.0
13	1.1	3.0
15	0.5	3.0
17	0.5	3.0
19	0.4	3.0
21	0.7	3.0
23	0.6	3.0
25	0.6	3.0
27	0.5	3.0
29	0.4	3.0
31	0.3	3.0
33	0.3	3.0
35	0.2	3.0
37	0.3	3.0
39	0.3	3.0



input		output 1	
Urms	229.9 V	Urms	112.3 V
Irms	0.280 A	Irms	0.502 A
Prms	62.1 W	Prms	56.3 W
S	64.3 VA		
Q	-16.8 VAR		
PF	0.9654		
$I_{(H01)}$	0.278 A	Uavg	112.3 V
Cos $\varphi_{(H01)}$	0.9701	Iavg	0.502 A
η_{rms}	90.7%	Pavg	56.3 W
η_{avg}	90.7%		
THD	9.9%		

izylum 40Led's_500mA_Meanwell

Test room temperature (°C) : 24.9

Measurement equipment :

Keithley with thermocouples type K (E082)

Norma 4000 (E068)

APT (E135)

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 :
