

Laboratory Test report



226-TEST

NBN EN ISO/IEC 17025 :2017



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FORM L-54 Edition 01 – Revision 02 - Date: 14/11/2019

Electrical measurements

General information

Subject : IZYLUM 2- 40 LH351C - Philips 110W - 620mA - Nema - Class II

Asked by : SZÜGYI János Péter

Created on : 28/02/2020

Started on : 03/03/2020

Test number : D200337

Sample(s) : E190879

Folder : P-F19085

Test conditions

Luminaire : IZYLUM 2

Number of LED : 40

LED : Samsung LH351C

Driver : Xi LP 110W 0.2-0.7A S1 230V C133 sXt / 00-70-392

Number of driver(s) : 1

Driver current (mA) : 620

Driver info : Tc (max) 90°C

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

Operator : KOY Fiston



IMG_6054

Conclusion



Informative

Conclusion :

PF : 0.98

Efficiency : 91.1%

THD : 11.1%

Harmonics : OK according to IEC 61000-3-2, Class C, P > 25 W (@100% dimming)

Validated by :

GHYSENS Gilles

Duplicate to : RACANELLI Frank, SZÜGYI János Péter,
HEYMANS Tom, LÁMFALUSI Ferenc, HORVÁTH Csaba, BEDŐ
Péter

LAB : 24/03/2020

D200337

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Test(s) details

Test(s)

Name	Description	Result
Test @ 620mA		Informative

Test @ 620mA

Annex(es)

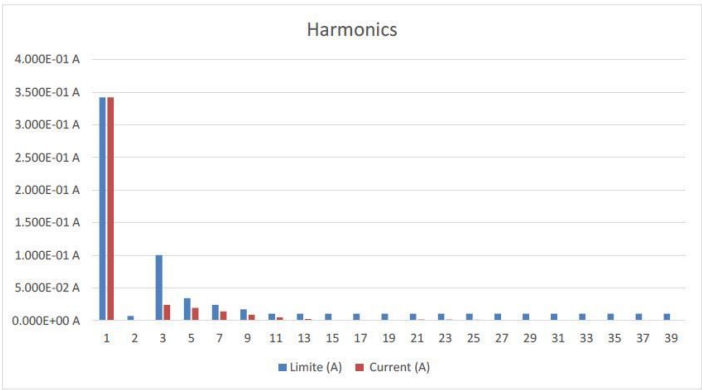
Harmonic current emissions (IEC 61000-3-2, Class C, > 25W)
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Driver : Xi LP 110W 0.2-0.7A S1 230V C133 sXt / 00-70-392

Tc max 90°C

Date	03-03-20	Operator	FKY	Norma AQ number	E074
		Power Factor	0.9764	Cos φ (H01)	0.9825

Harmonic	Current (A)	Limite (A)
1	3.420E-01 A	3.420E-01 A
2	6.195E-04 A	6.841E-03 A
3	2.403E-02 A	1.002E-01 A
5	1.943E-02 A	3.420E-02 A
7	1.386E-02 A	2.394E-02 A
9	9.149E-03 A	1.710E-02 A
11	4.590E-03 A	1.026E-02 A
13	2.263E-03 A	1.026E-02 A
15	3.508E-04 A	1.026E-02 A
17	5.226E-04 A	1.026E-02 A
19	8.398E-04 A	1.026E-02 A
21	1.694E-03 A	1.026E-02 A
23	1.738E-03 A	1.026E-02 A
25	1.267E-03 A	1.026E-02 A
27	1.012E-03 A	1.026E-02 A
29	7.999E-04 A	1.026E-02 A
31	3.959E-04 A	1.026E-02 A
33	4.212E-04 A	1.026E-02 A
35	4.225E-04 A	1.026E-02 A
37	1.033E-03 A	1.026E-02 A
39	5.592E-04 A	1.026E-02 A



input		output 1	
Urms	230.0 V	Urms	114.1 V
Irms	0.344 A	Irms	0.618 A
Prms	77.4 W	Prms	70.5 W
S	79.2 VA		
Q	-17.1 VAR		
PF	0.9764		
I(H01)	0.342 A	Uavg	114.1 V
Cos φ (H01)	0.9825	Iavg	0.618 A
η rms	91.1%	Pavg	70.5 W
η avg	91.1%		
THD	11.1%		

IZYLUM 2- 40 LH351C - Philips 110W - 620mA - Nema - Class II

Test room temperature (°C) :

26.7

Measurement equipment :

Norma 4000 (E074)

APT (E113)

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 :
