

# Laboratory Test report



226-TEST

NBN EN ISO/IEC 17025 :2017



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Member of Schröder Group

FORM L-54 Edition 01 - Revision 03 - Date : 20/05/2020

## Electrical measurements

### General information

Subject : IZYLUM 4 - 120 LH351C - 2x Philips FP 110W - Nema - CLI (N°107)

Asked by : SZÜGYI János Péter

Created on : 21/04/2020

Started on : 27/04/2020

Test number : D200565

Sample(s) : E200252

Folder : P-F20015

### Test conditions

Luminaire : IZYLUM 4

Number of LED : 120

LED : Samsung LH351C

Driver : Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt / 00-59-726

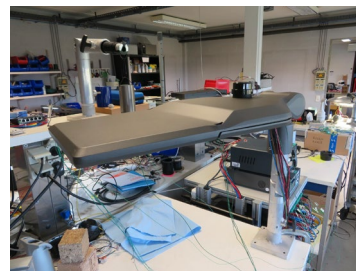
Number of driver(s) : 2

Driver current (mA) : 600

SPD : Izyhub Full Control Fuse CLI

Testing facility : BER - R-Tech

Operator : MESPOUILLE Loic



IMG\_6266

### Conclusion



Informative

Conclusion :

PF : 0.99 (@600mA)/ 0.99 (@500mA)

Efficiency : 92.8% (@600mA)/ 92.5% (@500mA)

THD : 6.0% (@600mA)/ 5.8% (@500mA)

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,

LÁMFALUSI Ferenc, BEDŐ Péter

LAB : 08/06/2020

**D200565**

1/4

# Test(s) details

## Test(s)

Name	Description	Result
Test @ 500mA		Informative
Test @ 600mA		Informative

## Test @ 500mA

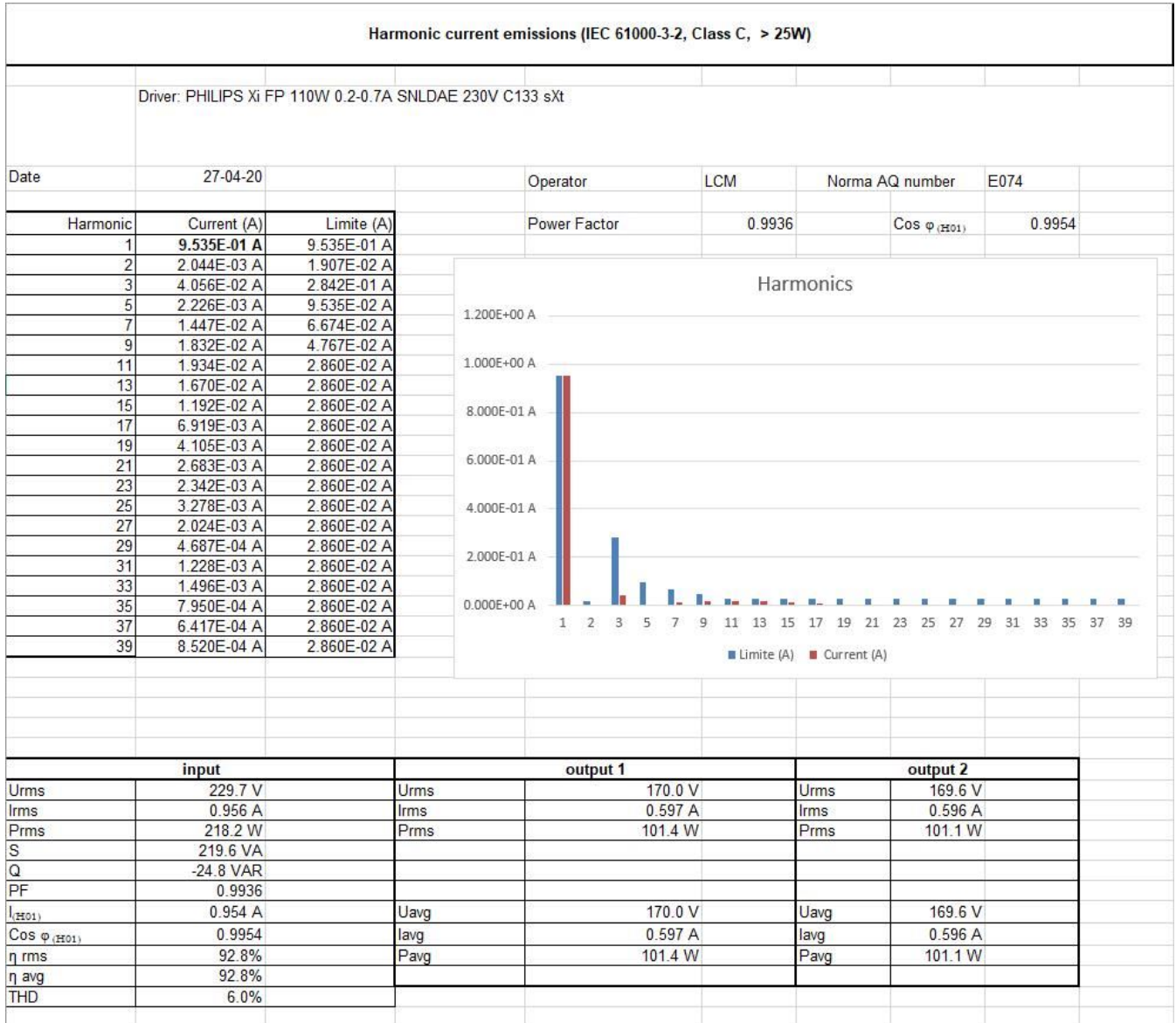
### Annex(es)

Harmonic current emissions (IEC 61000-3-2, Class C, > 25W)												
Driver: PHILIPS Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt												
Date	24-04-20		Operator	LCM	Norma AQ number	E074						
Harmonic	Current (A)	Limite (A)	Power Factor	0.9936	Cos $\varphi_{(H01)}$	0.9941						
1	1.000E+02 A	1.000E+02 A										
2	2.352E-01 A	2.000E+00 A										
3	3.227E+00 A	2.981E+01 A										
5	5.631E-01 A	1.000E+01 A										
7	1.828E+00 A	7.000E+00 A										
9	2.134E+00 A	5.000E+00 A										
11	2.214E+00 A	3.000E+00 A										
13	1.890E+00 A	3.000E+00 A										
15	1.334E+00 A	3.000E+00 A										
17	7.616E-01 A	3.000E+00 A										
19	3.590E-01 A	3.000E+00 A										
21	1.550E-01 A	3.000E+00 A										
23	8.244E-02 A	3.000E+00 A										
25	2.222E-01 A	3.000E+00 A										
27	1.732E-01 A	3.000E+00 A										
29	5.396E-02 A	3.000E+00 A										
31	1.911E-01 A	3.000E+00 A										
33	2.195E-01 A	3.000E+00 A										
35	1.383E-01 A	3.000E+00 A										
37	1.426E-01 A	3.000E+00 A										
39	1.307E-01 A	3.000E+00 A										
<b>input</b>								<b>output 1</b>		<b>output 2</b>		
Urms	229.8 V	Urms						168.7 V	Urms	168.3 V		
Irms	0.794 A	Irms						0.498 A	Irms	0.497 A		
Prms	181.1 W	Prms						83.9 W	Prms	83.6 W		
S	182.4 VA											
Q	-22.3 VAR											
PF	0.9925											
$I_{(H01)}$	0.793 A	Uavg						168.7 V	Uavg	168.3 V		
Cos $\varphi_{(H01)}$	0.9941	Iavg						0.498 A	Iavg	0.497 A		
$\eta_{rms}$	92.5%	Pavg						83.9 W	Pavg	83.6 W		
$\eta_{avg}$	92.5%											
THD	5.8%											

mes\_elec\_110W\_500mA

# Test @ 600mA

## Annex(es)



mes\_elec\_110W\_600mA

**Test room temperature (°C) :**

25.5°C (500mA)

26.0°C (600mA)

**Measurement equipment :**

Keithley with thermocouples type K (E124)

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: ± 0,27 m/s

**Decision rules :**

No pass/fail criteria applied on electrical measurements

**End of accredited report :**

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