

RAPORT DE TEST FIZIC



226-TEST
NBN EN ISO/IEC 17025 :2017



R-Tech
Rue de Mons 3 – B-4000 Liège – Belgium
Tel.: +32 4 224 71 40 – Fax: +32 4 224 25 90
Member of Schröder Group

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

Măsurători electrice

Informații generale

Subiect : IZYLUM 4 - 120 LH351C - 2x Philips FP 110W - Nema - CL I (N°107)

Solicitat de: SZÜGYI János Péter

Creat la: 21/04/2020

Data: 27/04/2020

Număr test: D200565

Esantion(e): E200252

Dosar: P-F20015

Cerințele testului

Aparat : IZYLUM 4

Număr de LED-uri: 120

LED : Samsung LH351C

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

Număr de driver(e): 2

Curent driver (mA) : 600

SPD : Izyhub Full Control Fuse CLI

Facilitare de testare : BER - R-Tech

Operator : MESPOUILLE Loic



IMG_6266

Concluzii



Informativ

Concluzii :

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

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

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

Armonici : OK conform IEC 61000-3-2, Clasa C, P > 25 W (@100% dimming)

Validat de :

GHYSENS Gilles

Duplicat pentru : RACANELLI Frank, SZÜGYI János

Péter,
LÁMFALUSI Ferenc, BEDŐ Péter

LAB : 08/06/2020

D200565

1/4

Traducător și Interpret Autorizat
LIMBĂȘAN DANIELA
Aut. M.J. Nr. 14531/2005
Engleză, Franceză

Detalii test(e)

Test(e)

| Nume | Descriere | Rezultat |
|--------------|-----------|------------|
| Test @ 500mA | | Informativ |
| Test @ 600mA | | Informativ |

Test @ 500mA

Anexa(e)

| 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 φ _(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 | | | | | |

| input | | output 1 | | output 2 | |
|------------------------|-----------|----------|---------|----------|---------|
| 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 φ _(H01) | 0.9941 | Iavg | 0.498 A | Iavg | 0.497 A |
| η _{rms} | 92.5% | Pavg | 83.9 W | Pavg | 83.6 W |
| η _{avg} | 92.5% | | | | |
| THD | 5.8% | | | | |

mes_elec_110W_500mA

Traducător și Interpret Autorizat
LIMBĂȘAN DANIELA
 Aut. M. J. Nr. 14531/2005
 Engleză, Franceză

Test @ 600mA

Anexa(e)

| Harmonic current emissions (IEC 61000-3-2, Class C, > 25W) | | | | | | |
|--|-------------|-------------|--------------|-----------------|-----------------------|--------|
| Driver: PHILIPS Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt | | | | | | |
| Date | 27-04-20 | Operator | LCM | Norma AQ number | E074 | |
| Harmonic | Current (A) | Limite (A) | Power Factor | 0.9936 | Cos $\varphi_{(H01)}$ | 0.9954 |
| 1 | 9.535E-01 A | 9.535E-01 A | | | | |
| 2 | 2.044E-03 A | 1.907E-02 A | | | | |
| 3 | 4.056E-02 A | 2.842E-01 A | | | | |
| 5 | 2.226E-03 A | 9.535E-02 A | | | | |
| 7 | 1.447E-02 A | 6.674E-02 A | | | | |
| 9 | 1.832E-02 A | 4.767E-02 A | | | | |
| 11 | 1.934E-02 A | 2.860E-02 A | | | | |
| 13 | 1.670E-02 A | 2.860E-02 A | | | | |
| 15 | 1.192E-02 A | 2.860E-02 A | | | | |
| 17 | 6.919E-03 A | 2.860E-02 A | | | | |
| 19 | 4.105E-03 A | 2.860E-02 A | | | | |
| 21 | 2.683E-03 A | 2.860E-02 A | | | | |
| 23 | 2.342E-03 A | 2.860E-02 A | | | | |
| 25 | 3.278E-03 A | 2.860E-02 A | | | | |
| 27 | 2.024E-03 A | 2.860E-02 A | | | | |
| 29 | 4.687E-04 A | 2.860E-02 A | | | | |
| 31 | 1.228E-03 A | 2.860E-02 A | | | | |
| 33 | 1.496E-03 A | 2.860E-02 A | | | | |
| 35 | 7.950E-04 A | 2.860E-02 A | | | | |
| 37 | 6.417E-04 A | 2.860E-02 A | | | | |
| 39 | 8.520E-04 A | 2.860E-02 A | | | | |

| input | | output 1 | | output 2 | |
|-----------------------|-----------|----------|---------|----------|---------|
| Urms | 229.7 V | Urms | 170.0 V | Urms | 169.6 V |
| Irms | 0.956 A | Irms | 0.597 A | Irms | 0.596 A |
| Prms | 218.2 W | Prms | 101.4 W | Prms | 101.1 W |
| S | 219.6 VA | | | | |
| Q | -24.8 VAR | | | | |
| PF | 0.9936 | | | | |
| $I_{(H01)}$ | 0.954 A | Uavg | 170.0 V | Uavg | 169.6 V |
| Cos $\varphi_{(H01)}$ | 0.9954 | Iavg | 0.597 A | Iavg | 0.596 A |
| η_{rms} | 92.8% | Pavg | 101.4 W | Pavg | 101.1 W |
| η_{avg} | 92.8% | | | | |
| THD | 6.0% | | | | |

mes_elec_110W_600mA

Traducător și Interpret Autorizat
LIMBĂȘAN DANIELA
 Aut. M.J. Nr. 14531/2005
 Engleză, Franceză

Temperatura camerei de testare (°C) :

25.5°C (500mA)

26.0°C (600mA)

Echipament de măsură:

Keithley cu termocuplu tip K (E124)

Norma 4000 (E074)

APT (E113)

Cantități măsurate:

Calificarea limitelor termice și măsurarea comportamentului electric al unui corp de iluminat conform PT-S-07

Incertitudini :

Delarație de incertitudini (K=2, 95% of confidence level):

Temperatură: 0,6 °K

Tensiune (AC): 0,33%

Curent(AC): 0,33 %

Putere (AC): 0,27%

Tensiune(DC): 0,3 %

Curent (DC): 0,3%

Putere (DC): 0,23%

Anemometeru: $\pm 0,27$ m/s s_

Reguli de decizie:

Criterii de trecere/esuat aplicate măsurătorilor electrice.

Sfârșitul testului:

Traducător și Interpret Autorizat
LIMBĂȘAN DANIELA
Aut.M.J. Nr. 14531/2005
Engleză, Franceză