

Laboratory Test report



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 04 – Date : 21/04/2021

Electrical measurements

General information

Subject : ECOBLAST - 360 OSLOM - ENEDO Driver - 1250mA - CL I - 70°

Asked by : BECSKE Imre

Created on : 01/04/2021

Started on : 16/04/2021

Test number : D210335

Sample(s) : E210109, E210112

Folder : P-F20030

Test conditions

Luminaire : ECOBLAST 6

Number of LED : 360

LED : Osram OSLOM SQUARE GIANT

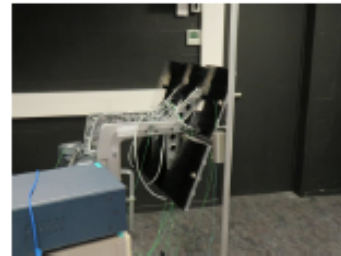
Driver : DRIVER_ENEDO_NONE_1800W:3_1250-2000mA_240-400V_DALI_... / 01-26-746

Number of driver(s) : 1

Driver current (mA) : 1250


Additional load info : Tilt 70°

Operator : CLOSSET Frédéric



lum_70

Conclusion

 Informative

Conclusion :

PF : 0.99

Efficiency : 96.2%

THD : 8.8%

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

Validated by :

GHYSENS Gilles

Duplicate to : PELSÖCZI Zoltán, RACANELLI Frank, BECSKE

Imre, CSIKÓS Balázs

LAB : 26/04/2021

D210335

1/4

Test(s) details

Test(s)

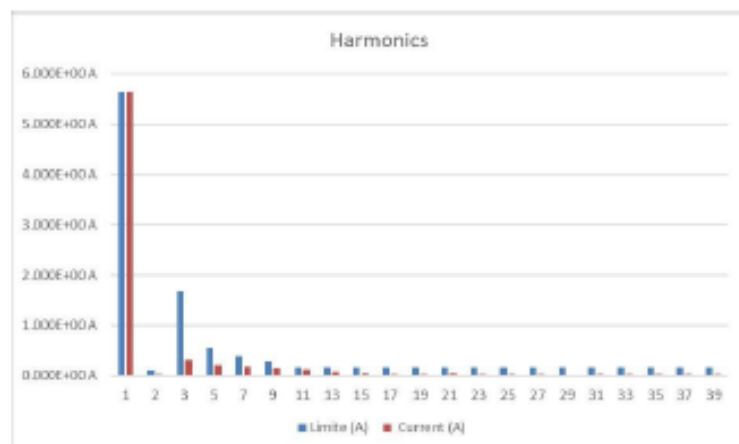
Name	Description	Verdict
Harmonics @ 1250mA	Measurement of the harmonic currents of the luminaire at thermal stabilization, according IEC 61000-3-2 - Class C (100% dimming).	Informative
Measurements @ 1250mA	Characterization of the electrical parameters of the luminaire at thermal stabilization.	Informative

Harmonics @ 1250mA

Verdict(s)

Harmonic	Current (A)	Limite (A)
1	5.629E+00 A	5.629E+00 A
2	2.016E-02 A	1.126E-01 A
3	3.087E-01 A	1.680E+00 A
5	2.119E-01 A	5.629E-01 A
7	1.913E-01 A	3.940E-01 A
9	1.580E-01 A	2.814E-01 A
11	1.203E-01 A	1.689E-01 A
13	7.878E-02 A	1.689E-01 A
15	4.165E-02 A	1.689E-01 A
17	2.122E-02 A	1.689E-01 A
19	2.888E-02 A	1.689E-01 A
21	3.627E-02 A	1.689E-01 A
23	3.544E-02 A	1.689E-01 A
25	2.763E-02 A	1.689E-01 A
27	1.987E-02 A	1.689E-01 A
29	1.668E-02 A	1.689E-01 A
31	2.376E-02 A	1.689E-01 A
33	2.726E-02 A	1.689E-01 A
35	3.222E-02 A	1.689E-01 A
37	3.386E-02 A	1.689E-01 A
39	2.717E-02 A	1.689E-01 A

Annex(es)



harm_335

Measurements @ 1250mA

Verdict(s)

input		output 1		output 2	
Urms	240.6 V	Urms	350.1 V	Urms	348.9 V
Irms	5.656 A	Irms	1.247 A	Irms	1.234 A
Prms	1354.1 W	Prms	436.3 W	Prms	430.3 W
S	1361.0 VA				
Q	-136.8 VAR				
PF	0.9949				
I(H01)	5.634 A	Uavg	350.1 V	Uavg	348.9 V
Cos j (H01)	0.9989	Iavg	1.246 A	Iavg	1.233 A
η rms	96.2%	Pavg	436.2 W	Pavg	430.2 W
η avg	96.2%				
THD	8.8%	output 3			
		Urms	349.9 V		
		Irms	1.246 A		
		Prms	435.9 W		
		Uavg	349.9 V		
		Iavg	1.246 A		
		Pavg	435.9 W		

Test room temperature (°C) :

25.4

Measurement equipment :

Norma 4000 (E116)

APT (E108)

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 :
