Test Report No 151124-031940-F

Standby Power Measurement

Customer	
Name:	**goughlui.com Testing**
Address:	1 RoadTest Ave RoadTestVille RoadTestState 1234 RoadTestNation

Issuer	
Name:	**goughlui.com**
Address:	1 RoadTest Ave RoadTestVille RoadTestState 1234 RoadTestNation
Date of issue:	**2015-Nov-24**

Unit Under Test	
Manufacturer:	**OSRAM**
Description:	OSRAM Lightify Gateway
Model:	
Serial Number:	
Rated Voltage:	
Rated Frequency:	
Documentation ref:	
Configuration:	

Reference Instrument	
Manufacturer:	**Tektronix**
Description:	Power Analyzer
Model:	PA1000
Serial Number:	B010272
Firmware Version:	Ver.1.3.15
Test Software:	PWRVIEW ver. 1.1.8.3

Test Conditions	
Time of Test:	**2015-Nov-24 03:19:40 PM**
Test Voltage:	230V ±1%
Test Frequency:	50Hz ±1%
Voltage Distortion:	< 2% THC
Voltage Crest Factor:	1.34 < Vcf < 1.49
Temperature:	23°C ±3°C
Humidity:	< 75%

Test Summary	
Average Power:	**1.2233 W**
Power Limit:	1.0000 W
Power Stability:	12.207 mW/h
Uncertainty*:	42.928 mW
Test Period:	00:17:24
Test Method:	Sampling (IEC62301 Ed.2)
Test Status:	**FAIL**

Power measurements were carried out in accordance with the requirements of IEC 62301 Ed. 2 *"Measurement of standby power"* and EN 50564:2011 *"Electrical and electronic household and office equipment - Measurement of low power consumption"* in the laboratory environment, using equipment traceable to national or international standards. All testing was performed under computer control.

* Uncertainty quoted is an avearge of power measurement uncertainties from the last 2/3 of the test which are due only to the accuracy of the reference instrument used. If Uncertainty is marked as FAIL it means that at least one power measurement uncertainty in the last 2/3 of the test exceeded the limit prescribed in the standard.

Test Notes
<none>

Test Officer	
Full Name:	**Gough Lui**
Signature:	_____

Results

All values in this table refer to results from the last 2/3 of the test	*Average*	*Minimum*	*Maximum*	*Min.Limit*	*Max.Limit*	*Status*
Power	**1.2233 W**	**1.2031 W**	**1.2309 W**	**N/A**	**1.0000 W**	**FAIL**
Voltage	231.54 V	231.46 V	231.65 V	227.70 V	232.30 V	PASS
Current	25.761 mA	25.443 mA	25.872 mA	N/A	N/A	N/A
Frequency	50.056 Hz	50.054 Hz	50.057 Hz	49.500 Hz	50.500 Hz	PASS
Power Factor	205.10 m	204.14 m	205.55 m	N/A	N/A	N/A
Voltage Crest Factor	1.4347	1.4339	1.4357	1.3400	1.4900	PASS
Current Crest Factor	9.9973	9.9557	10.140	N/A	N/A	N/A
Voltage THC	571.66 m%	563.65 m%	579.44 m%	N/A	2.0000 %	PASS
*Uncertainty Ratio**	2.3365	2.3285	2.3583	1.0000	N/A	PASS
Result Interval	N/A	N/A	0.5040 s	N/A	1.0000 s	PASS

* Uncertainty Ratio is the ratio of 'Ulim/Ures', where 'Ures' is the uncertainty of each power measurement, due only to the accuracy of the reference instrument used.
'Ulim' is the absolute allowed uncertainty, calculated for each power measurement in accordance with IEC63201 Ed.2 / EN 50564:2011 standards.
If Uncertainty Ratio is marked as FAIL it means that at least one power measurement uncertainty in the last 2/3 of the test exceeded the limit prescribed in the standard.

Power Graphs