

UMSUG TEST REPORT

Report Number: TLR 146

Issued on 01-11-17



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8297

Customer Details

Mallatite Ltd
Hainge Road
Tividale, OLDBURY
West Midlands, B69 2NY
United Kingdom

Customer Reference

TLR 146

Product Tested

The following electrical testing was carried out on the below mentioned product.

Product Code Number	ML – E - LED – XX – XX
Product Description	TYPE E LED SIGNLIGHT

Date Received: 31-10-17

Test Specification

Measurement of power consumption in accordance with "Unmetered Supplies Operational Information Document Version 17.0 (15th March 2017)".

Date & Sign

Date Tested: 31-10-17

Test Conducted By: Kishan Ram (Laboratory Manager)

Signature: 

Approved By: Kishan Ram (Laboratory Manager)

Signature: 

UMSUG TEST REPORT

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Test Conditions

Tests were performed in the following controlled laboratory conditions.

1. Room ambient @ 20 +/- 2 degrees Celsius
2. Fitting assembly tested in free-air
3. Accuracy of the measurements +/-2%

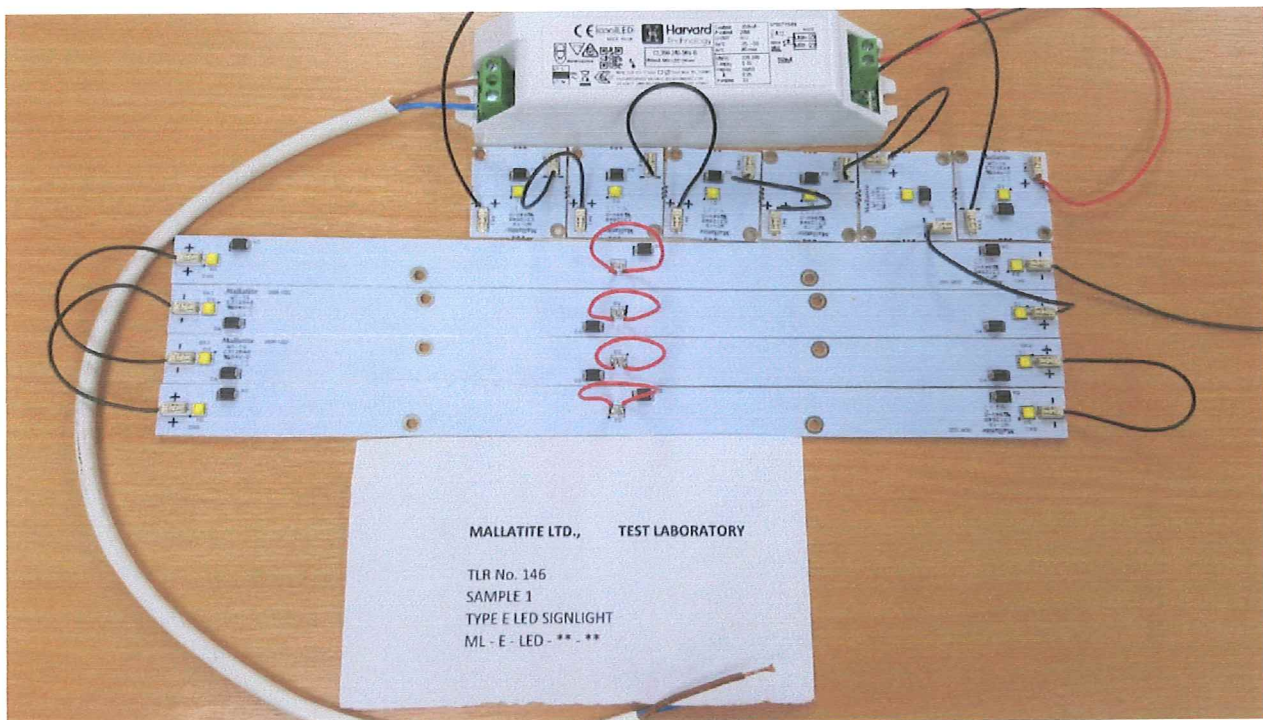
Test Equipment Used

Tests were performed using the following equipment.

1. UMSUG Testing Machine
2. VARIAC (within calibration date)
3. Fluke 43B Power Quality Analyser (within calibration date)
4. Fluke i30 Current Clamp Meter (within calibration date)

Product Illustration

The picture below illustrates the product to be tested.



UMSUG TEST REPORT

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Test Data

The below tables provide the power test analysis on 5 samples of the product.

Sample No.1	Voltage	Watts	VA	Power Factor
	210	17	17.8	0.96
	220	17.2	18.1	0.95
	230	17.3	18.5	0.93
	240	17.4	18.7	0.93
	250	17.6	19.1	0.92

Sample No.2	Voltage	Watts	VA	Power Factor
	210	16.9	17.6	0.96
	220	17	17.9	0.95
	230	17.1	18.2	0.94
	240	17.3	18.5	0.94
	250	17.5	18.9	0.93

Sample No.3	Voltage	Watts	VA	Power Factor
	210	16.7	17.4	0.96
	220	16.8	17.7	0.95
	230	17	18	0.94
	240	17.1	18.4	0.93
	250	17.3	18.8	0.92

Sample No.4	Voltage	Watts	VA	Power Factor
	210	16.6	17.4	0.95
	220	16.7	17.7	0.95
	230	16.9	18	0.94
	240	17	18.3	0.93
	250	17.2	18.7	0.92

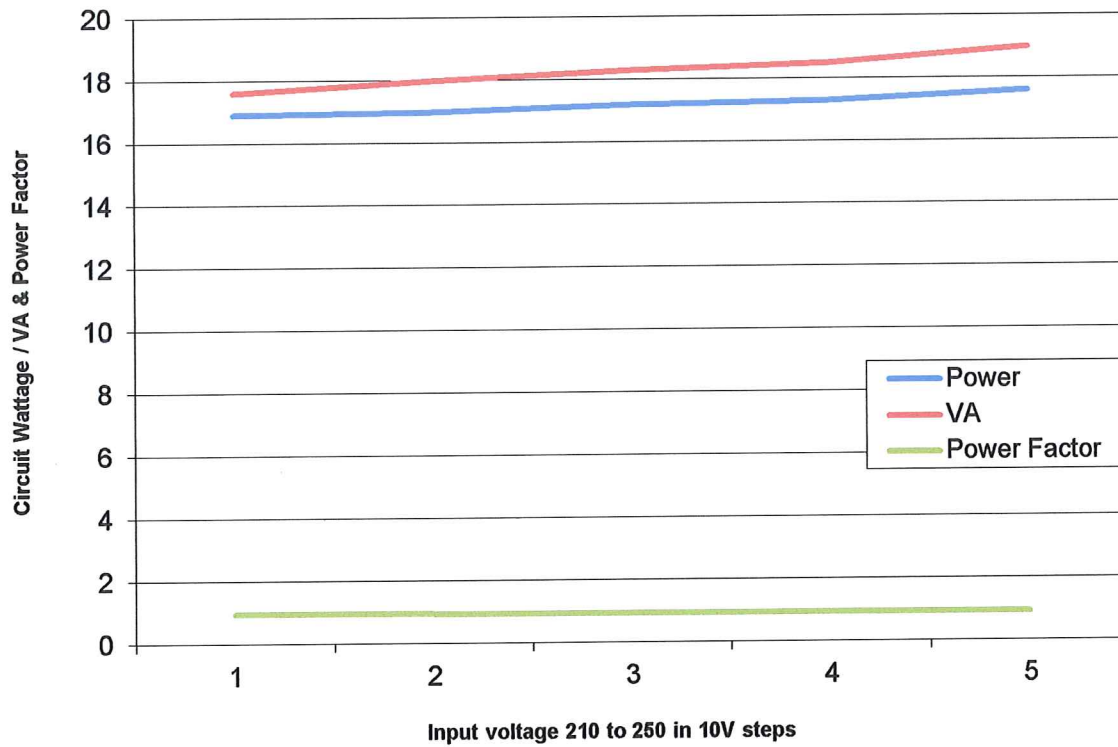
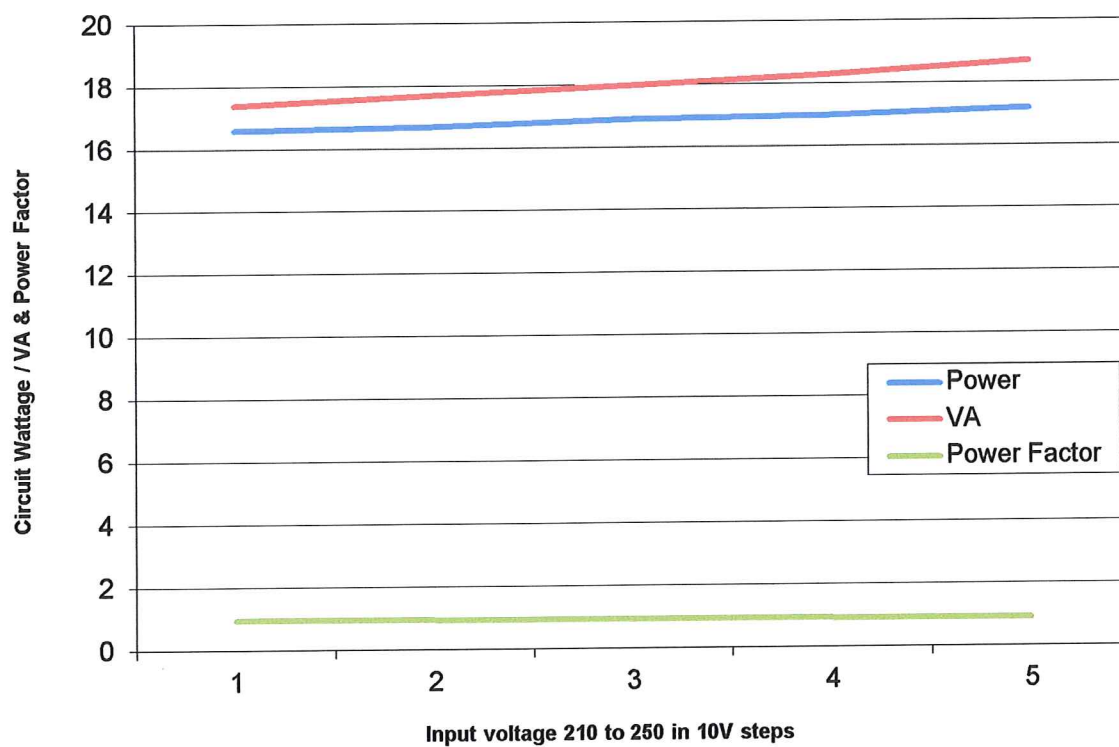
Sample No.5	Voltage	Watts	VA	Power Factor
	210	16.9	17.6	0.96
	220	17	18	0.95
	230	17.2	18.3	0.94
	240	17.3	18.5	0.93
	250	17.6	19	0.93

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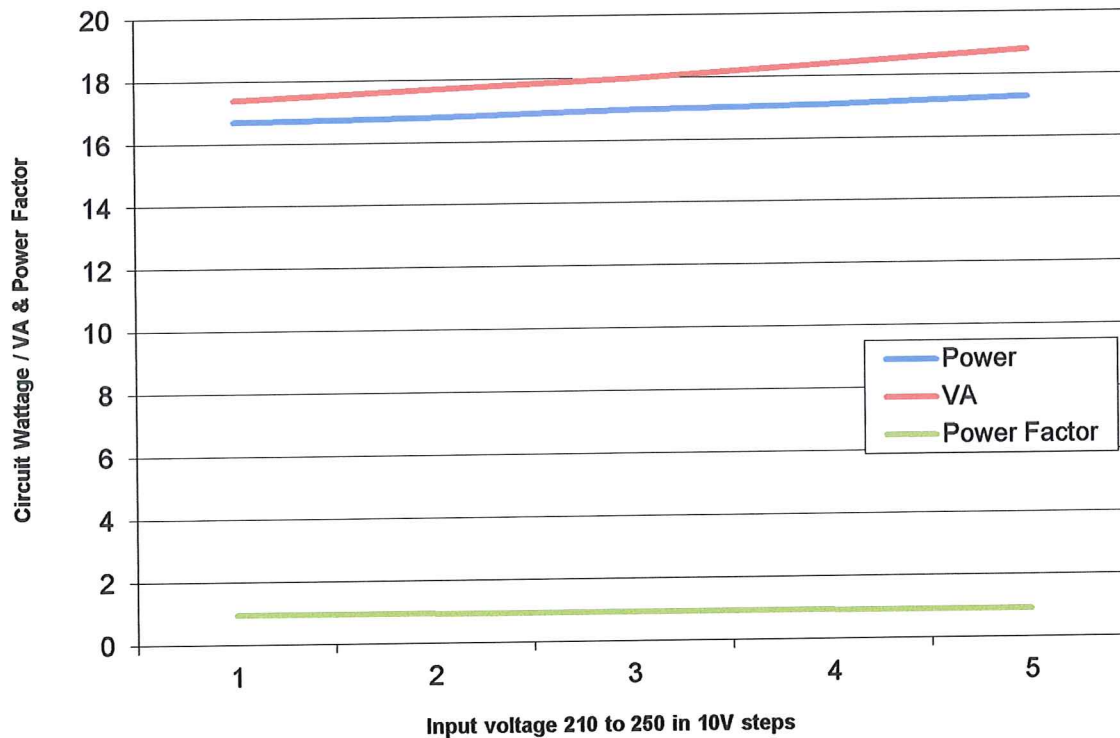
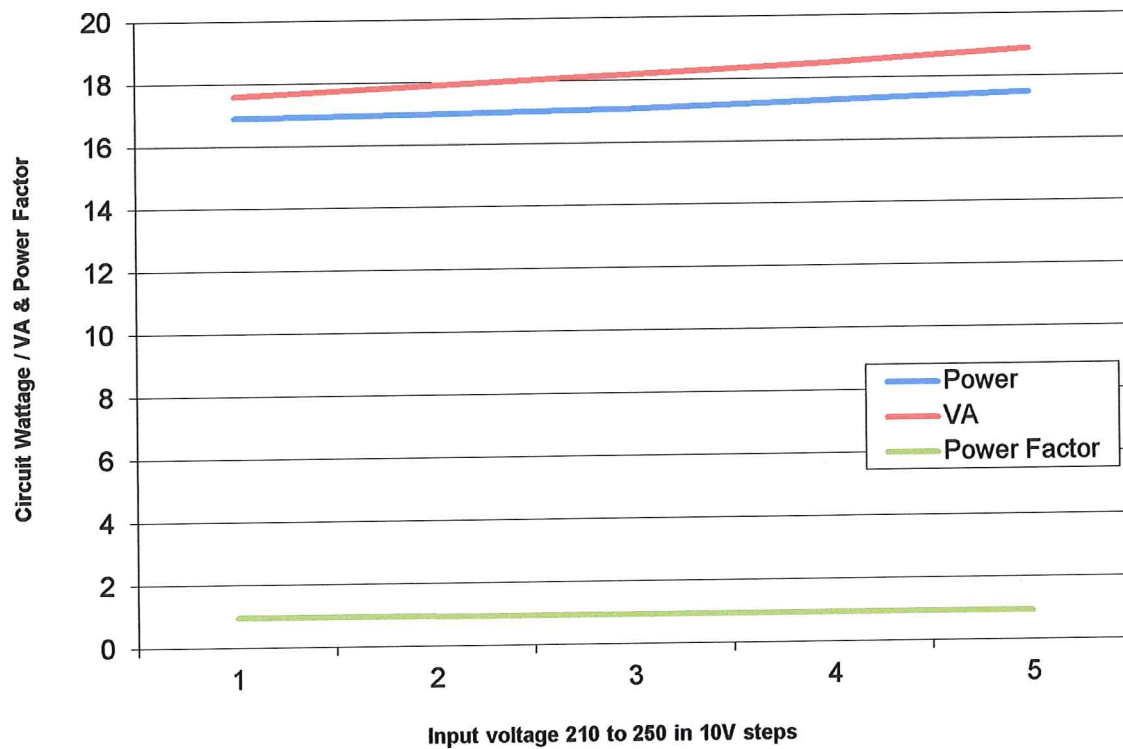
Graphs of Circuit Wattage Vs Circuit Voltage for each of the 5 Product Samples

Sample No. 1**Sample No. 2**

UMSUG TEST REPORT

Report Number: TLR 146

Issued on 01-11-17

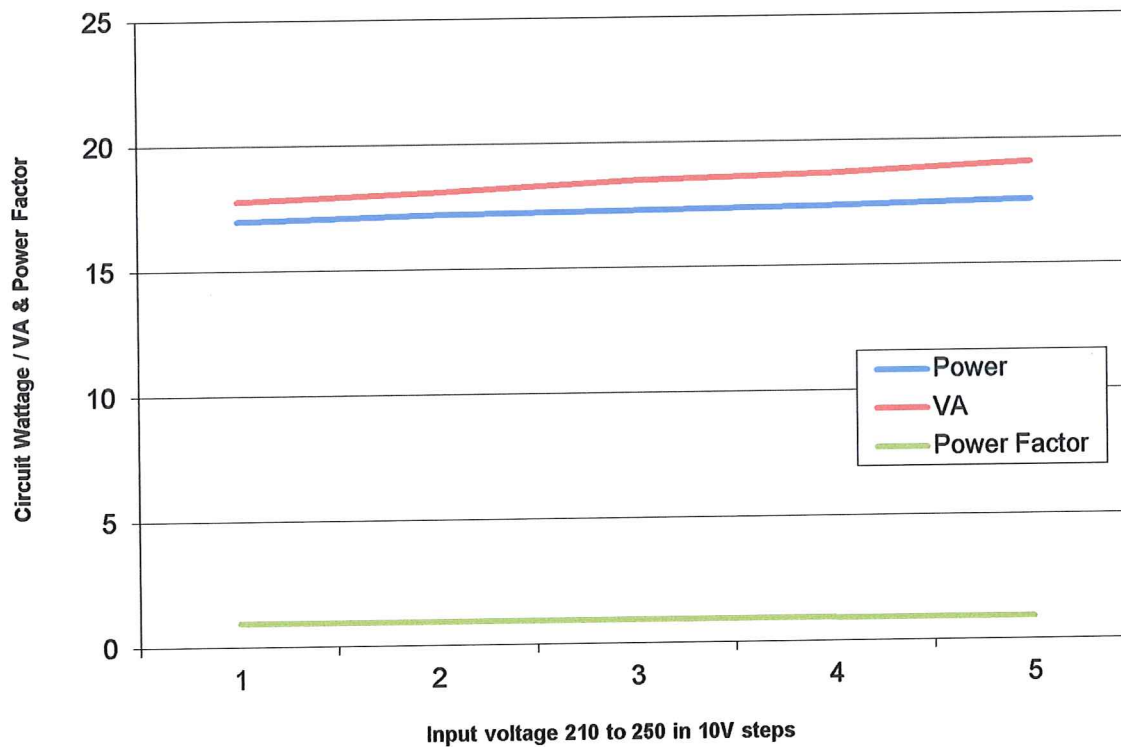
Sample No. 3**Sample No. 4**

UMSUG TEST REPORT

Report Number: TLR 146

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Sample No. 5



Conclusion

The above tests have been completed in accordance with the requirements of:

1. Elexon Guide to Unmetered Supplies under the BSC (version 17); and
2. Mallatite Ltd Testing Schedule 8297 (version 005).

The results are compliant.

END OF TEST REPORT