

UMSUG TEST REPORT

Report Number: TLR 114

Issued on 19/12/2014



SIGNATURE Ltd®

Signature House
Hainge Road
Tivdale, OLDBURY
West Midlands, B69 2NY
United Kingdom

Phone: +44 (0) 121 557 0234

Fax: +44 (0) 121 557 0995

www.signatureltd.com

Email: haseeb@signatureltd.com



8297

Customer Details

Signature Ltd
Signature House
Hainge Road
Tivdale, OLDBURY
West Midlands, B69 2NY
United Kingdom

Customer Reference

TLR114

Product Tested

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

Product Code Number	SUB-XXX-LED-1088
Product Description	LED Subway 1088mm

Date Received: 19/12/2014

Test Specification

Measurement of power consumption in accordance with "Unmetered Supplies Operational Information Document Version 14.0 (17th December 2014)".

Date & Sign

Date Tested: 19/12/2014

Test Conducted By: Kishan Ram (Laboratory Manager)

Signature:

Approved By: Kishan Ram (Laboratory Manager)

Signature:

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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.



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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	31.5	32.1	0.98
	220	31.8	32.5	0.98
	230	32.0	32.9	0.97
	240	32.2	33.3	0.97
	250	32.5	33.8	0.96

Sample No.2	Voltage	Watts	VA	Power Factor
	210	31.7	32.4	0.98
	220	32.0	32.7	0.98
	230	32.2	33.1	0.97
	240	32.5	33.6	0.97
	250	32.8	34.1	0.96

Sample No.3	Voltage	Watts	VA	Power Factor
	210	31.8	32.4	0.98
	220	32.1	32.8	0.98
	230	32.3	33.3	0.97
	240	32.6	33.7	0.97
	250	32.9	34.3	0.96

Sample No.4	Voltage	Watts	VA	Power Factor
	210	31.8	32.4	0.98
	220	32.0	32.8	0.98
	230	32.3	33.2	0.97
	240	32.6	33.6	0.97
	250	32.8	34.1	0.96

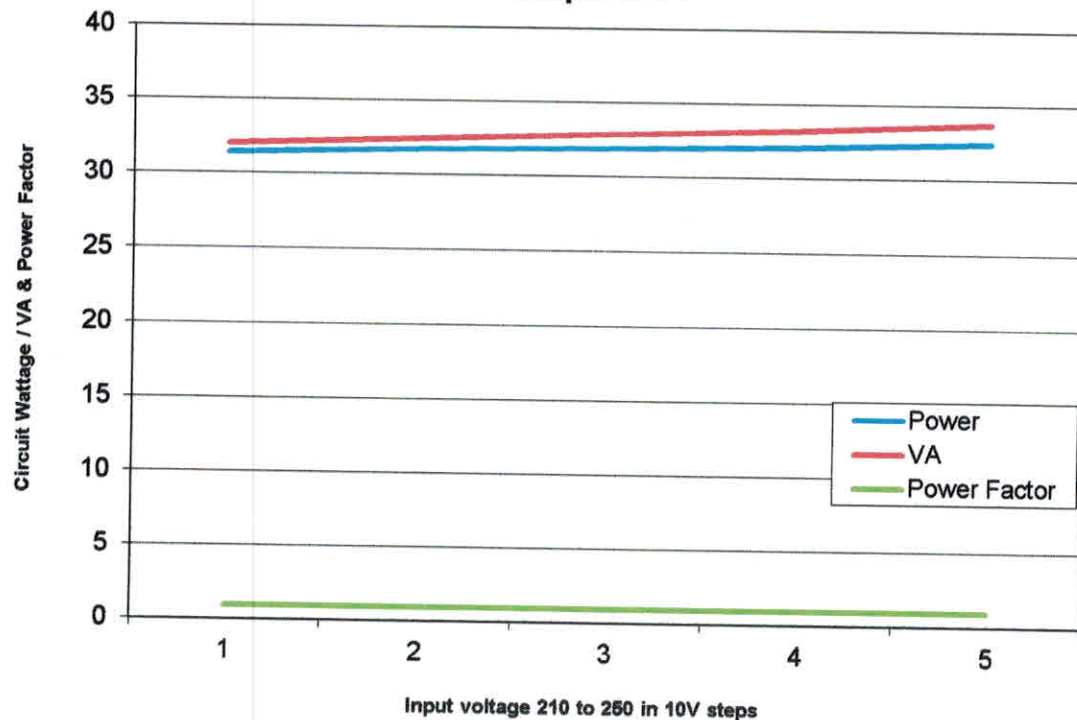
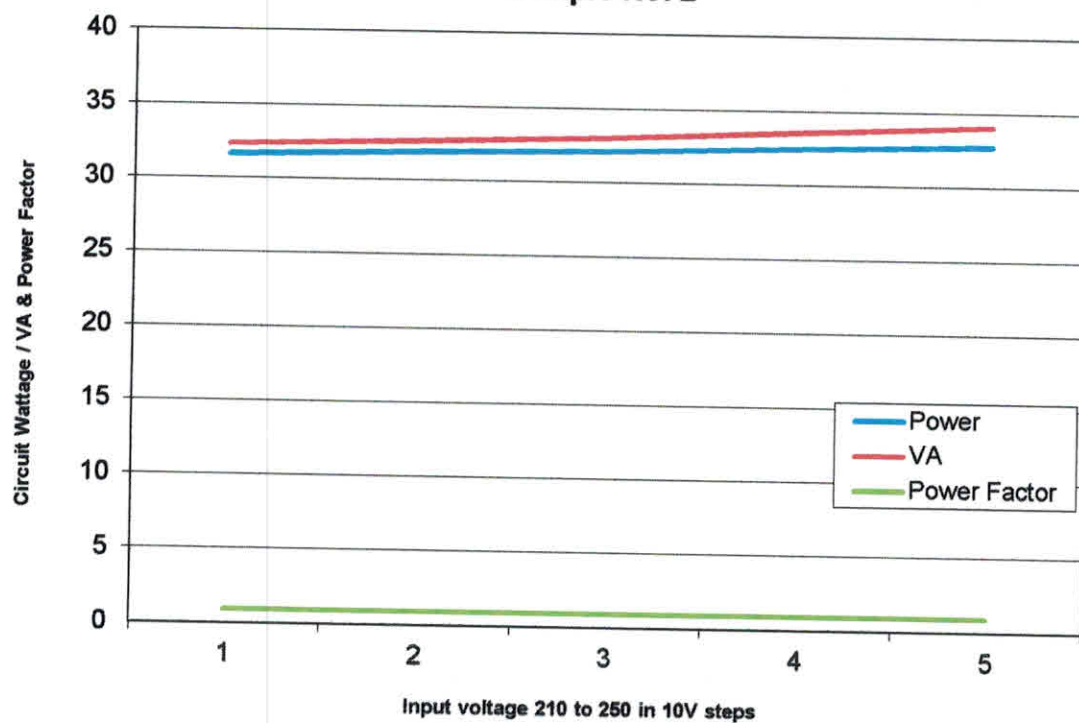
Sample No.5	Voltage	Watts	VA	Power Factor
	210	31.9	32.5	0.98
	220	32.1	32.8	0.98
	230	32.4	33.3	0.97
	240	32.7	33.8	0.97
	250	32.9	34.2	0.96

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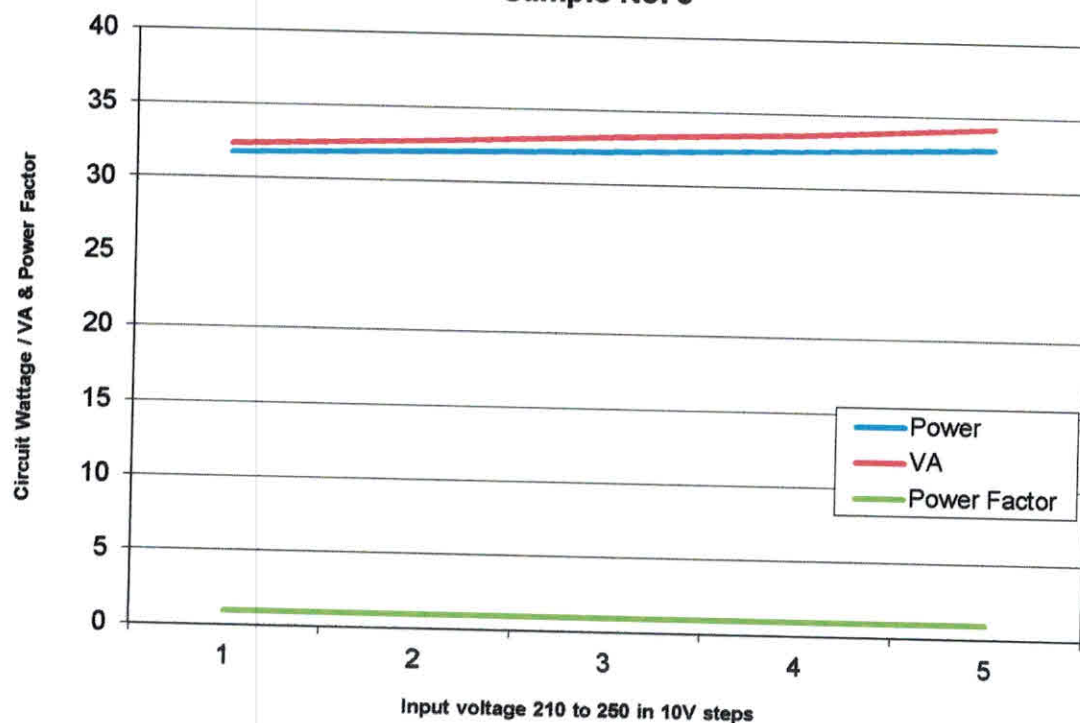
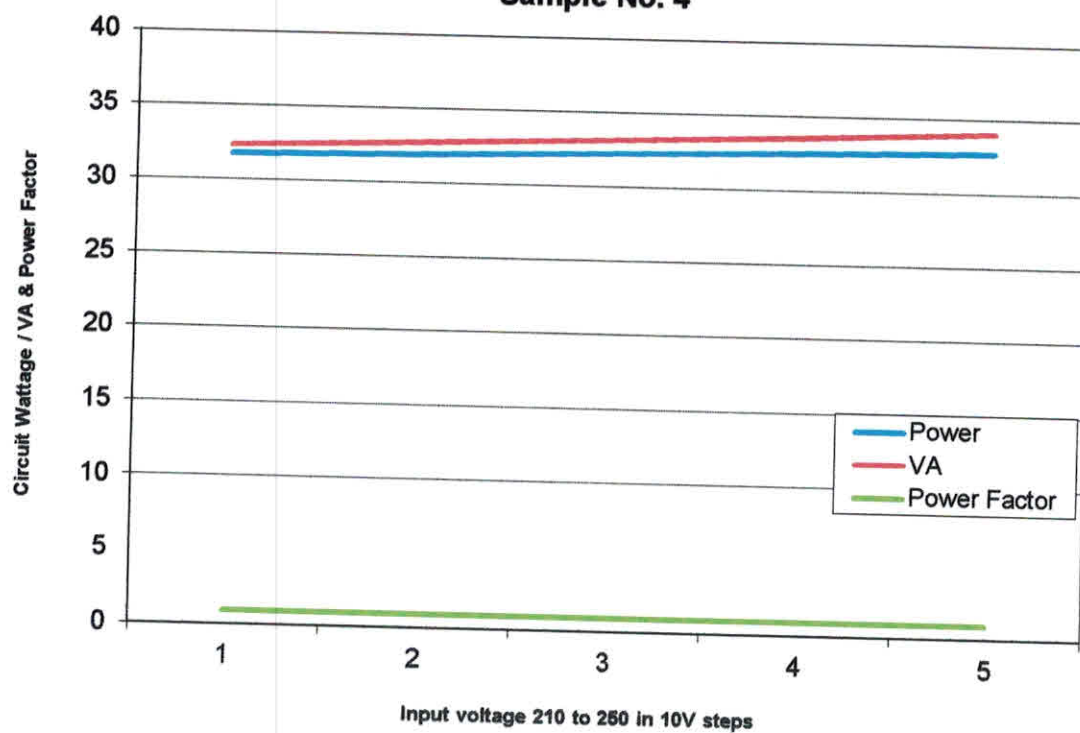
Graphs of Circuit Wattage Vs Circuit Voltage for each of the 5 Product Samples

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

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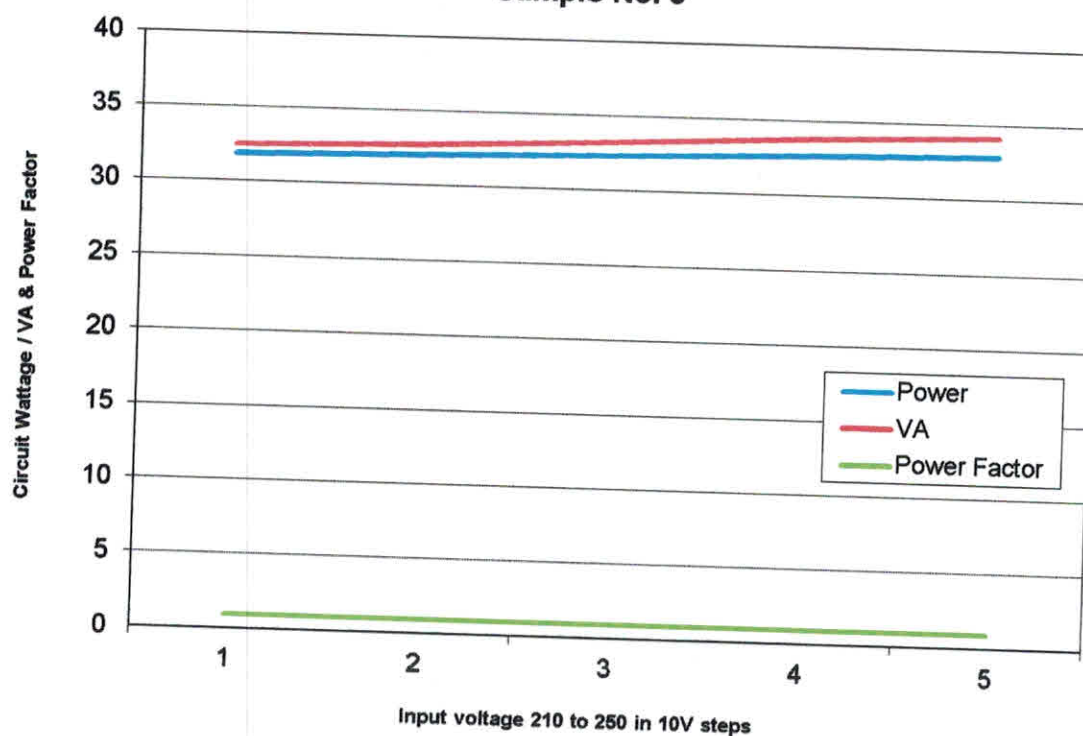
Sample No. 3**Sample No. 4**

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Sample No. 5



END OF TEST REPORT