

UMSUG TEST REPORT

Report Number: TLR 126

Issued on 09 10 2015



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8297

Customer Details

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

Customer Reference

TLR 126

Product Tested

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

Product Code Number	LED-8101-57K-EU
Product Description	LED SON REPLACEMENT LAMP 35W

Date Received: 09 10 2015

Test Specification

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

Date & Sign

Date Tested: 09 10 2015

Test Conducted By: Benjamin Cooper (Laboratory Technician)

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	34.7	36.1	0.96
	220	34.70	36.40	0.96
	230	34.80	36.80	0.95
	240	34.80	37.10	0.94
	250	34.90	37.50	0.93

Sample No.2	Voltage	Watts	VA	Power Factor
	210	34.50	36.00	0.96
	220	34.60	36.30	0.95
	230	34.60	36.60	0.95
	240	34.60	36.90	0.94
	250	34.70	37.40	0.93

Sample No.3	Voltage	Watts	VA	Power Factor
	210	34.90	36.40	0.96
	220	35.00	36.60	0.95
	230	35.00	37.00	0.95
	240	35.10	37.40	0.94
	250	35.10	37.80	0.93

Sample No.4	Voltage	Watts	VA	Power Factor
	210	35.00	36.50	0.96
	220	35.00	36.70	0.95
	230	35.00	37.10	0.95
	240	35.10	37.40	0.94
	250	35.10	37.80	0.93

Sample No.5	Voltage	Watts	VA	Power Factor
	210	35.20	36.50	0.96
	220	35.20	36.80	0.96
	230	35.20	37.10	0.95
	240	35.30	37.40	0.94
	250	35.30	37.80	0.94

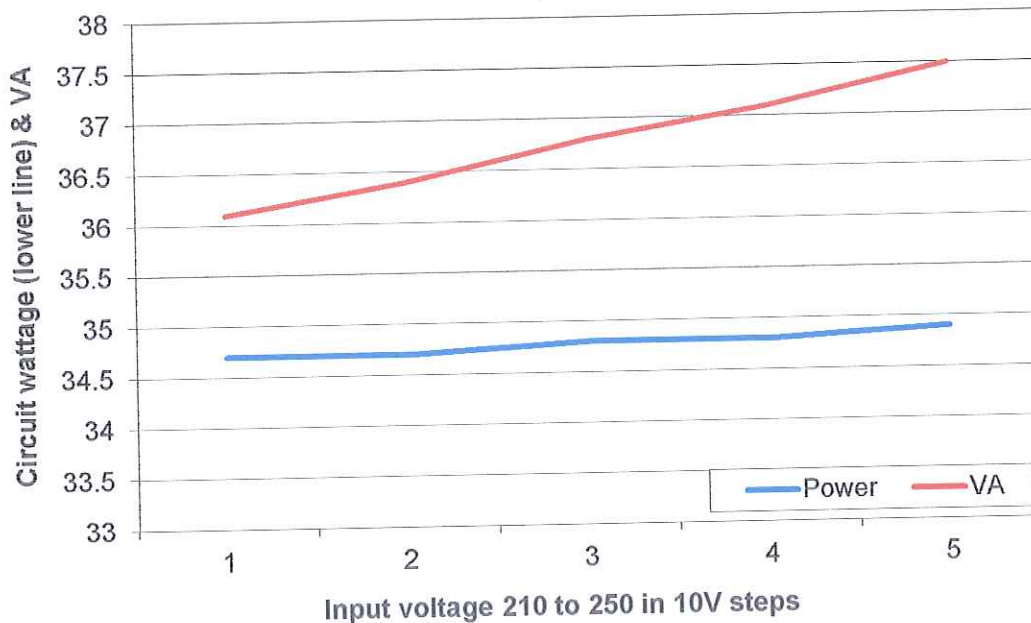
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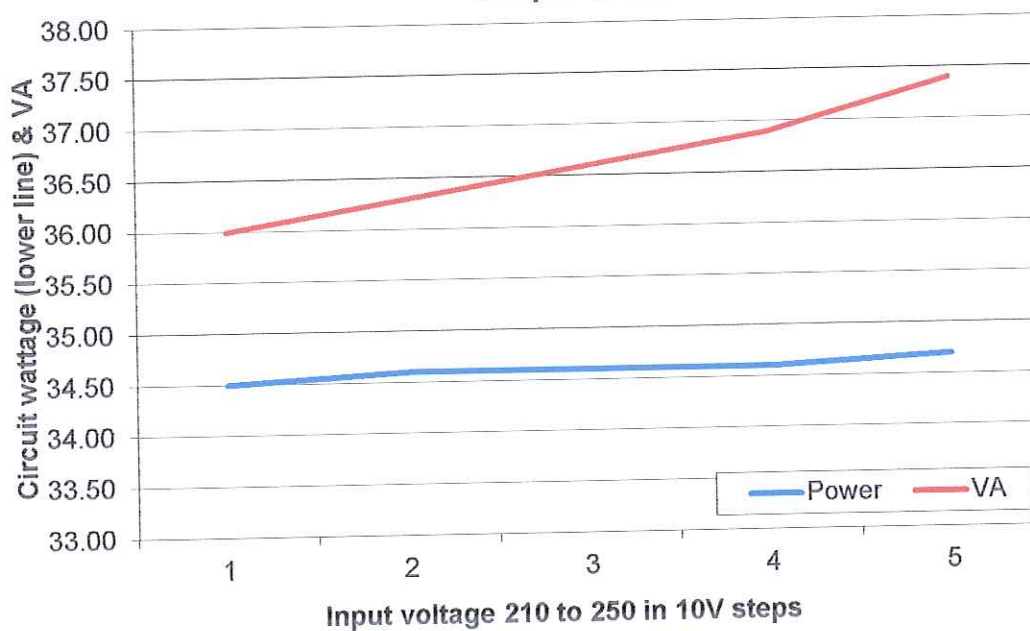
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Graphs of Circuit Wattage Vs Circuit Voltage for each of the 5 Product Samples

Sample No. 1



Sample No. 2

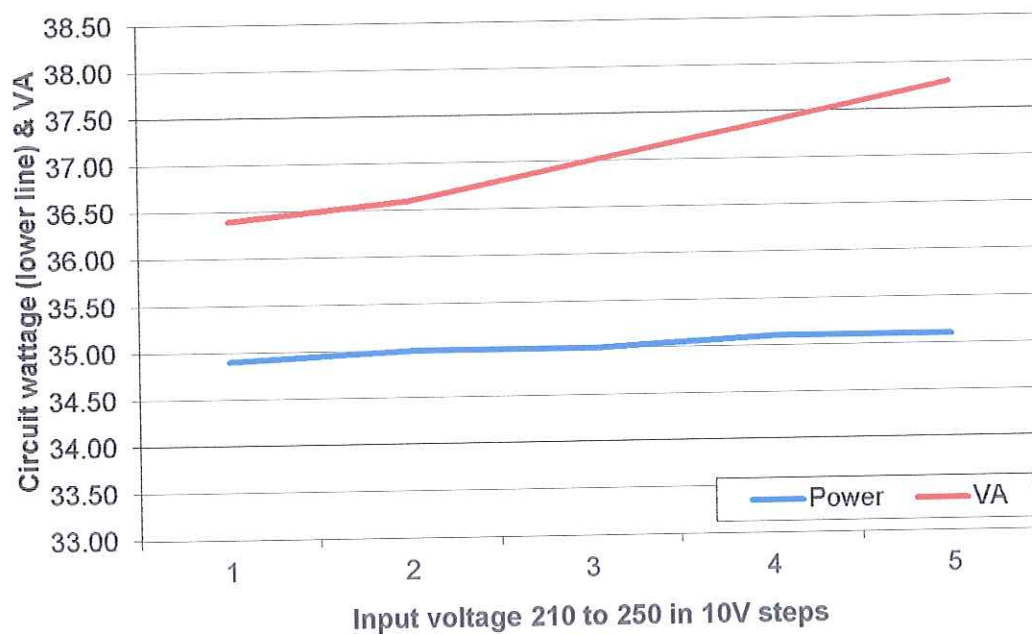


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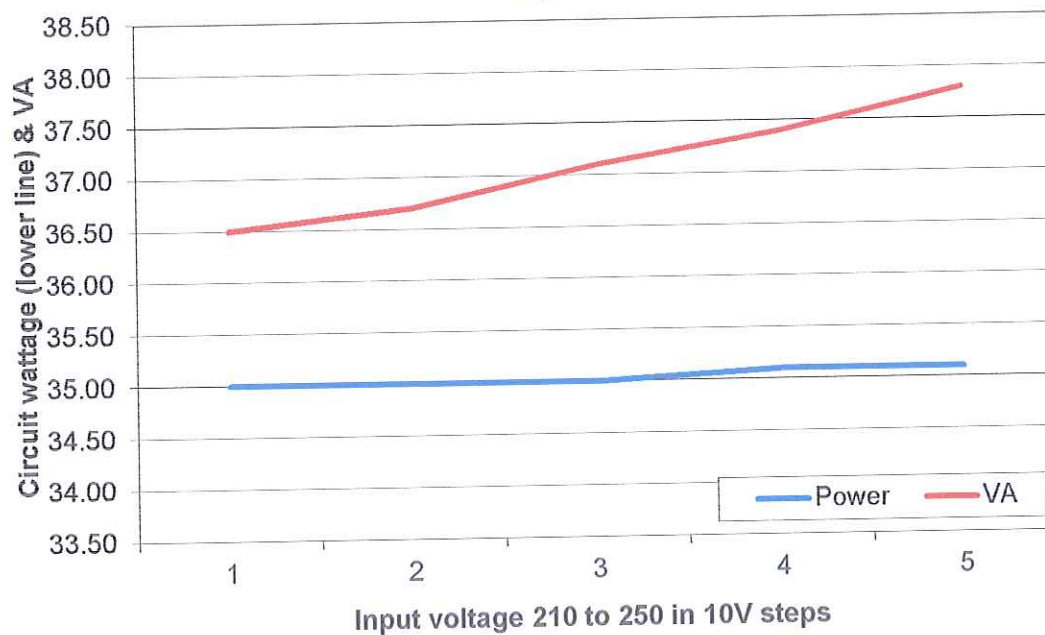
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Sample No. 3



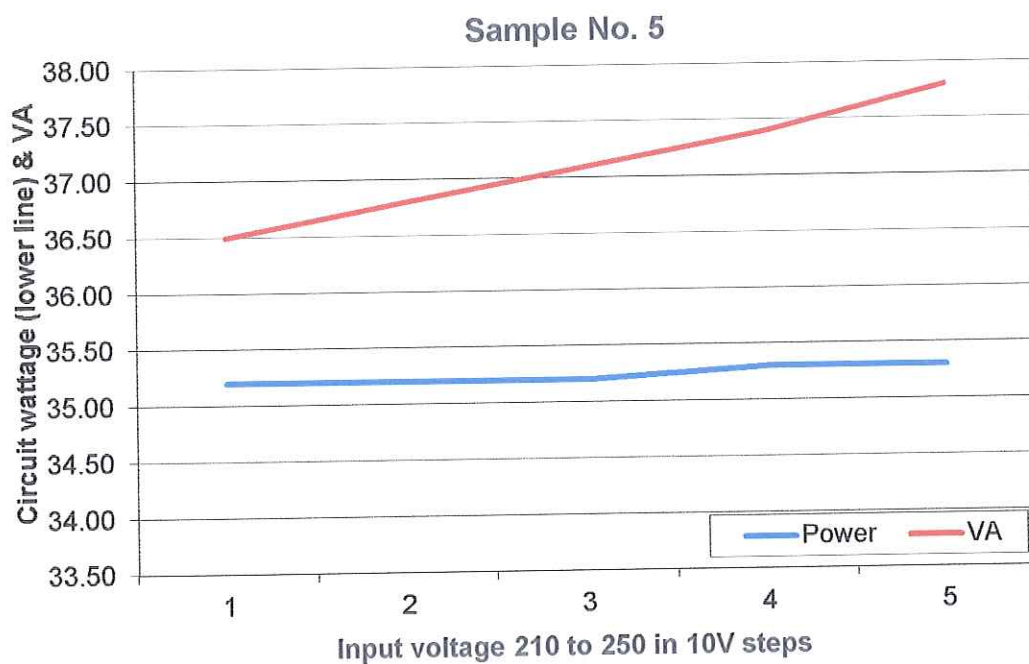
Sample No. 4



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Conclusion

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

1. Elexon Guide to Unmetered Supplies under the BSC (version 14); and
2. Signature Ltd Testing Schedule 8297 (version 002).

The results are compliant.

END OF TEST REPORT