

**UMSUG TEST REPORT**

Report Number: TLR 125

Issued on 06 10 2015



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8297

**Customer Details**

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

**Customer Reference**

TLR 125

**Product Tested**

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

Product Code Number	LED-8100-57K-EU
Product Description	LED SON/SOX REPLACEMENT LAMP 20W

Date Received: 06 10 2015

**Test Specification**

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

**Date & Sign**

Date Tested: 06 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%

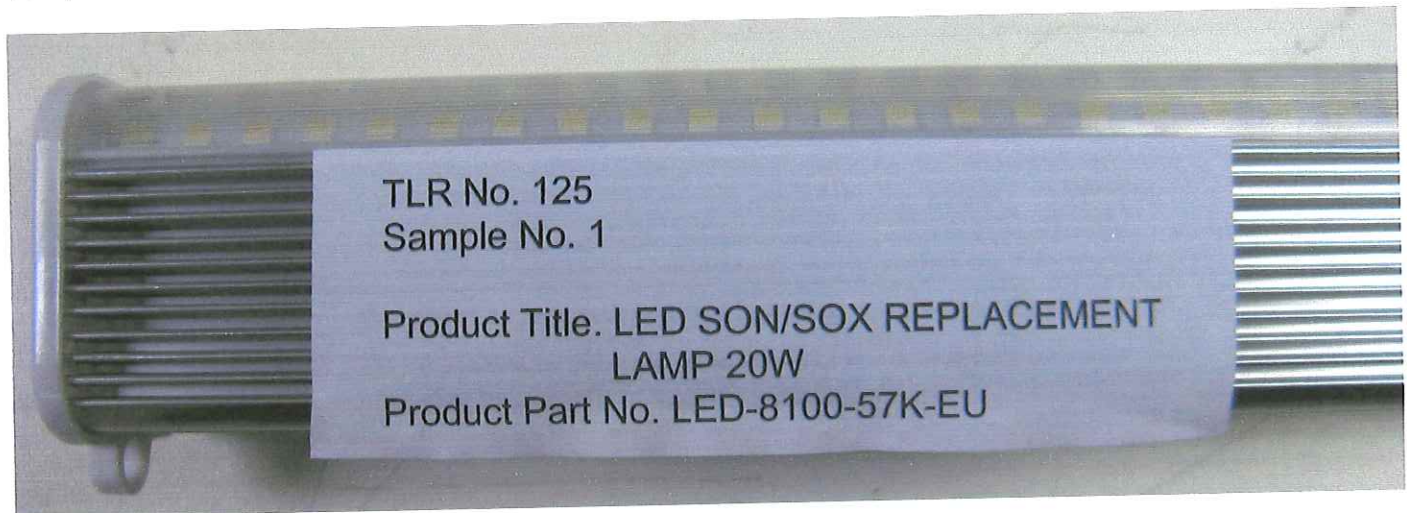
## Test Equipment Used

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	23	23.6	0.97
	220	23	23.9	0.97
	230	23.1	24.1	0.96
	240	23.1	24.2	0.96
	250	23.2	24.4	0.95

Sample No.2	Voltage	Watts	VA	Power Factor
	210	22.9	23.8	0.96
	220	23	24	0.96
	230	23.1	24.1	0.96
	240	23.1	24.3	0.95
	250	23.2	24.5	0.95

Sample No.3	Voltage	Watts	VA	Power Factor
	210	23	23.8	0.97
	220	23	24	0.96
	230	23.1	24.2	0.96
	240	23.1	24.3	0.95
	250	23.2	24.5	0.95

Sample No.4	Voltage	Watts	VA	Power Factor
	210	23.1	23.8	0.97
	220	23.1	24	0.97
	230	23.2	24.1	0.96
	240	23.2	24.3	0.96
	250	23.3	24.6	0.95

Sample No.5	Voltage	Watts	VA	Power Factor
	210	22.9	23.6	0.97
	220	23.1	23.9	0.97
	230	23.2	24.1	0.96
	240	23.2	24.3	0.96
	250	23.2	24.5	0.95

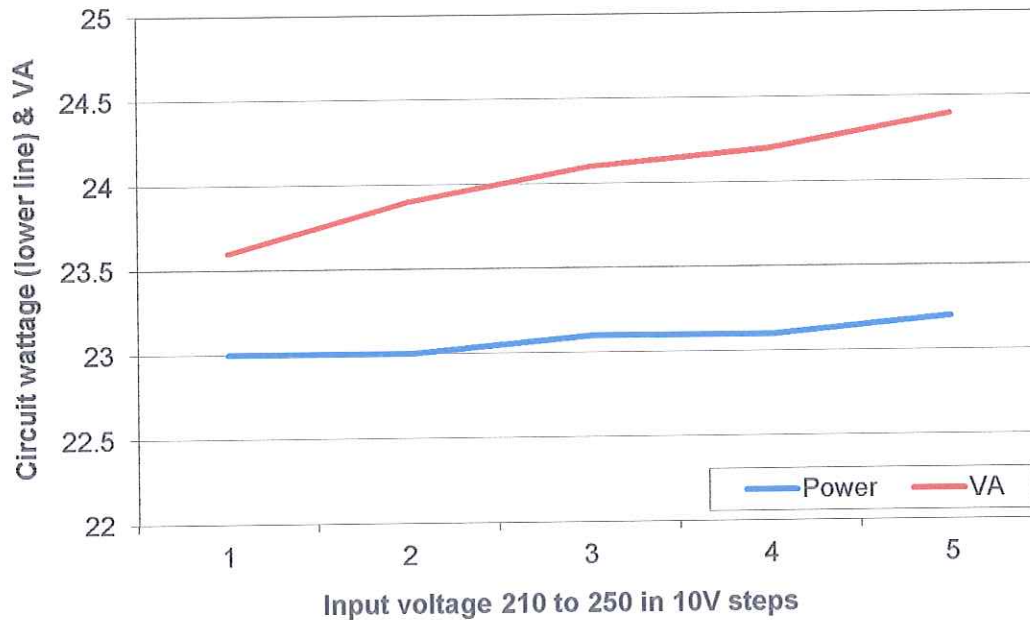
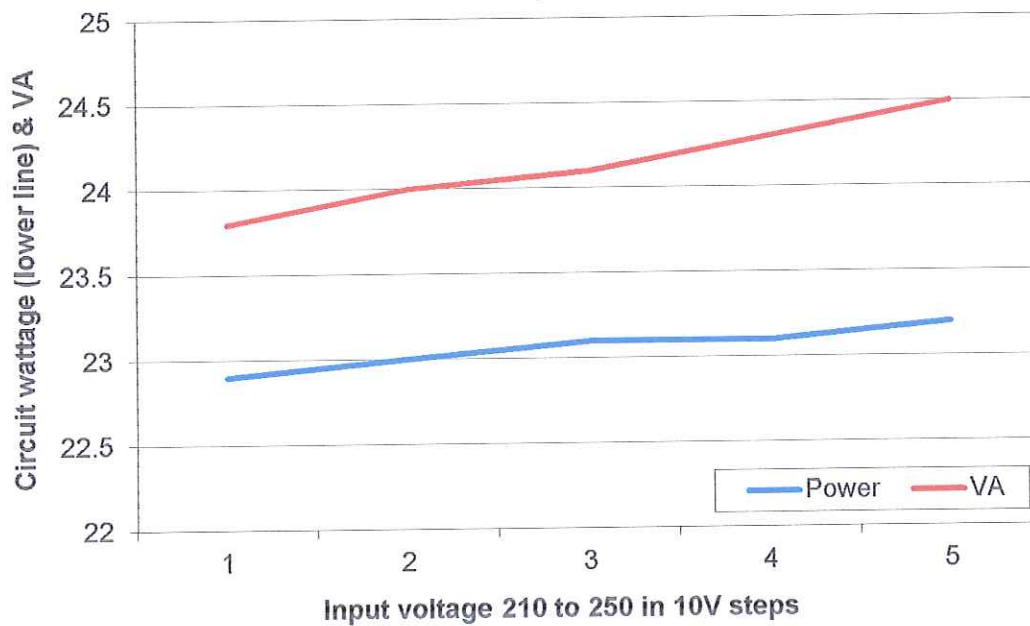


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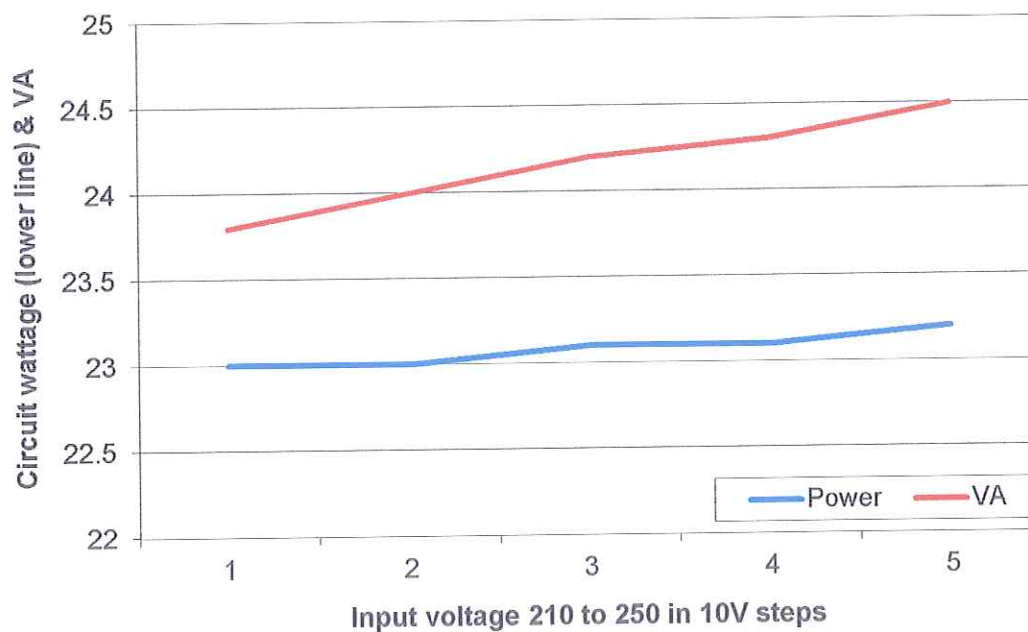
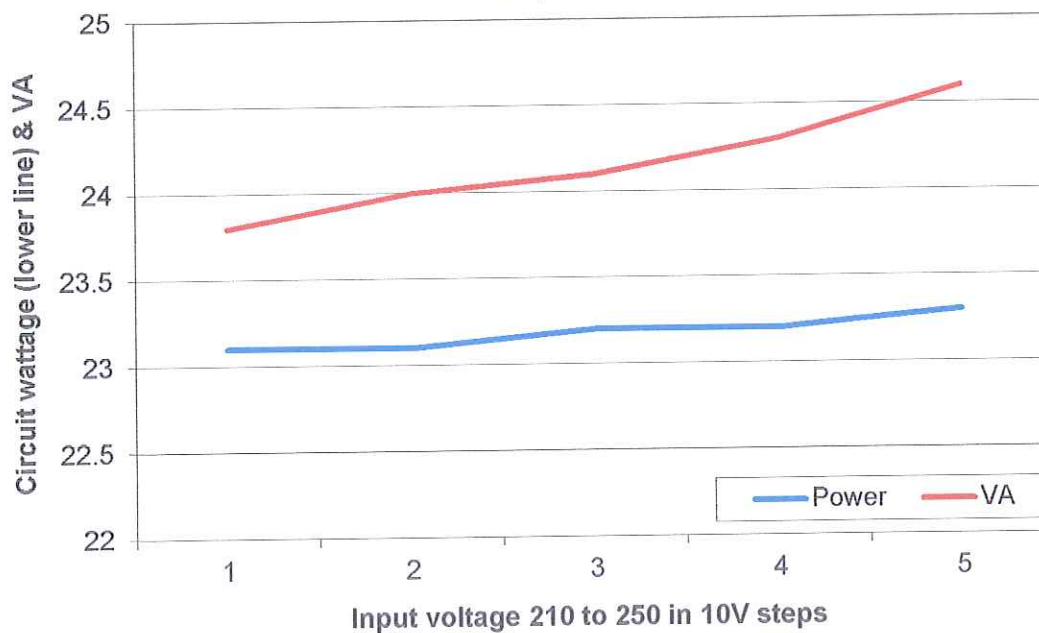
## Graphs of Circuit Wattage Vs Circuit Voltage for each of the 5 Product Samples

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

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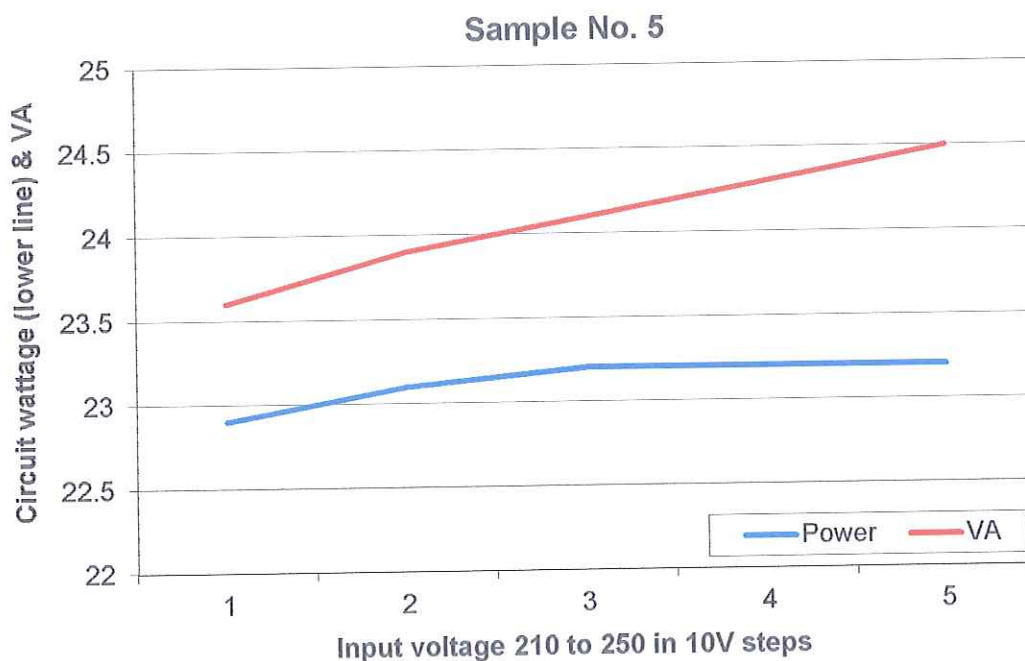
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**Sample No. 3****Sample No. 4**

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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