

UMSUG TEST REPORT

Report Number: TLR 145

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 145

Product Tested

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

Product Code Number	ML - D - LED - XX - XX
Product Description	TYPE D LED SIGNLIGHT

Date Received: 17-10-17**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: 

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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%

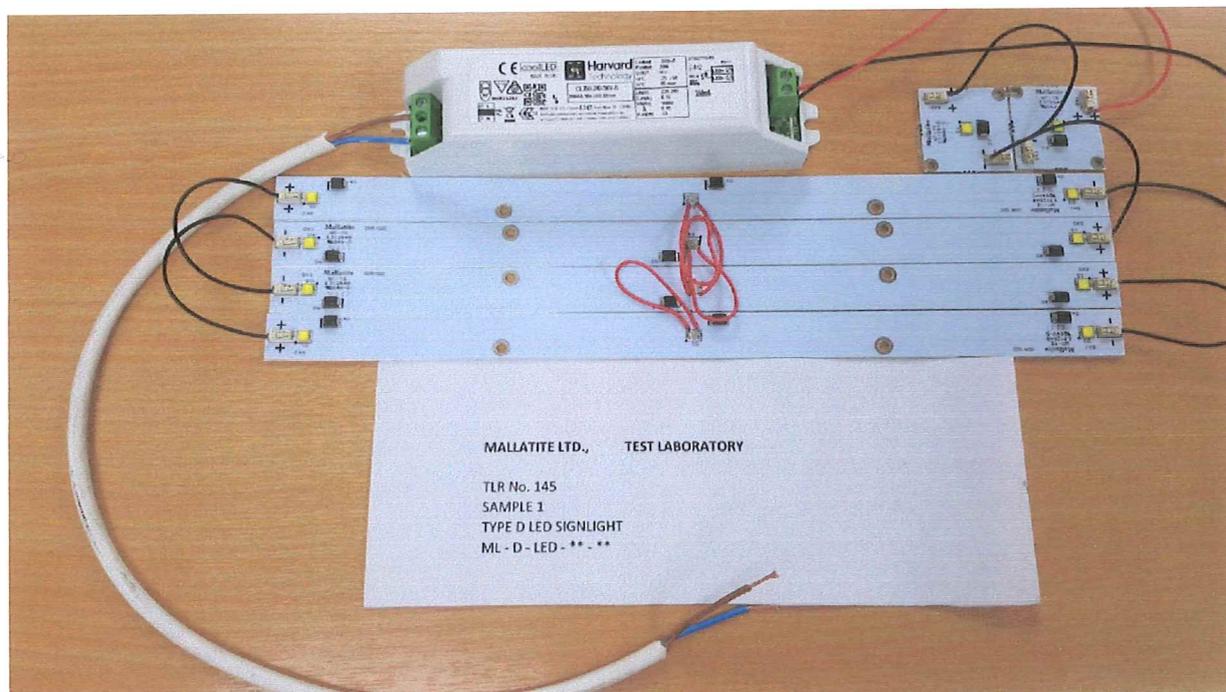
Test Equipment Used

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	12.7	13.7	0.93
	220	12.8	14.1	0.91
	230	13	14.4	0.90
	240	13.2	14.9	0.89
	250	13.4	15.4	0.87

Sample No.2	Voltage	Watts	VA	Power Factor
	210	12.6	13.5	0.93
	220	12.7	13.9	0.92
	230	12.9	14.3	0.9
	240	13.1	14.7	0.89
	250	13.3	15.1	0.88

Sample No.3	Voltage	Watts	VA	Power Factor
	210	12.5	13.6	0.92
	220	12.7	14	0.91
	230	12.8	14.5	0.89
	240	13	14.9	0.87
	250	13.2	15.3	0.87

Sample No.4	Voltage	Watts	VA	Power Factor
	210	12.8	13.8	0.93
	220	12.9	14.2	0.91
	230	13.1	14.8	0.89
	240	13.3	15.2	0.88
	250	13.5	15.6	0.86

Sample No.5	Voltage	Watts	VA	Power Factor
	210	12.7	13.7	0.93
	220	12.8	14	0.92
	230	13	14.4	0.91
	240	13.2	14.8	0.89
	250	13.4	15.2	0.88

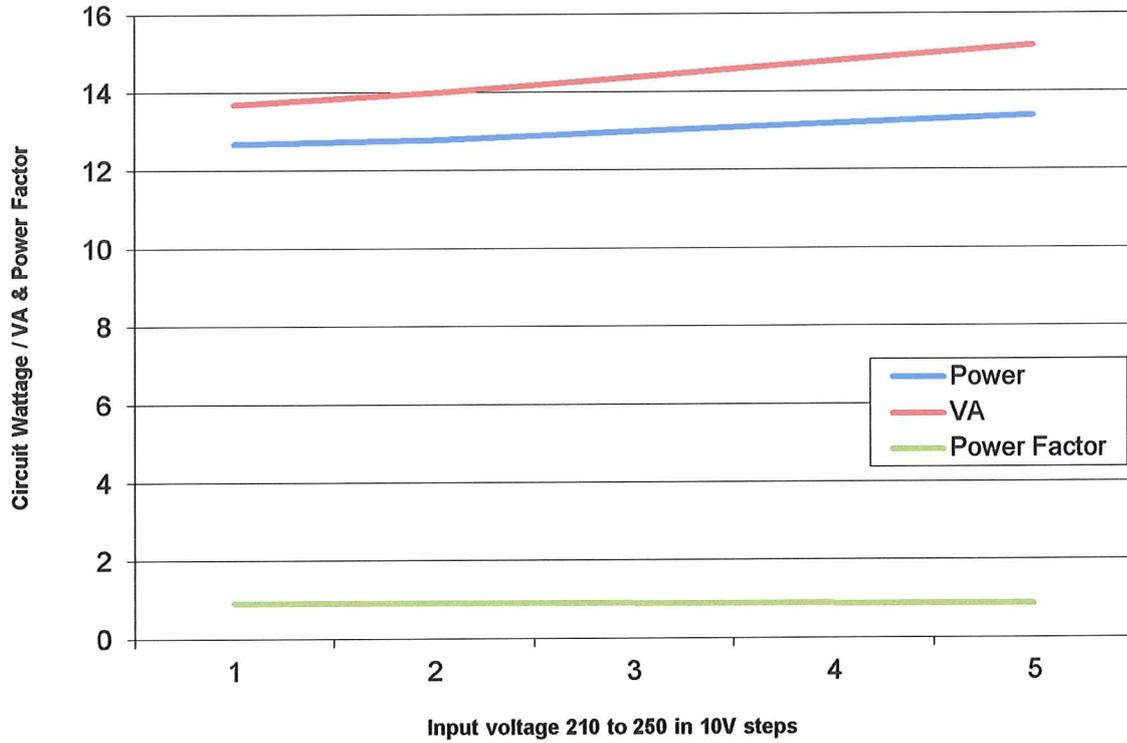
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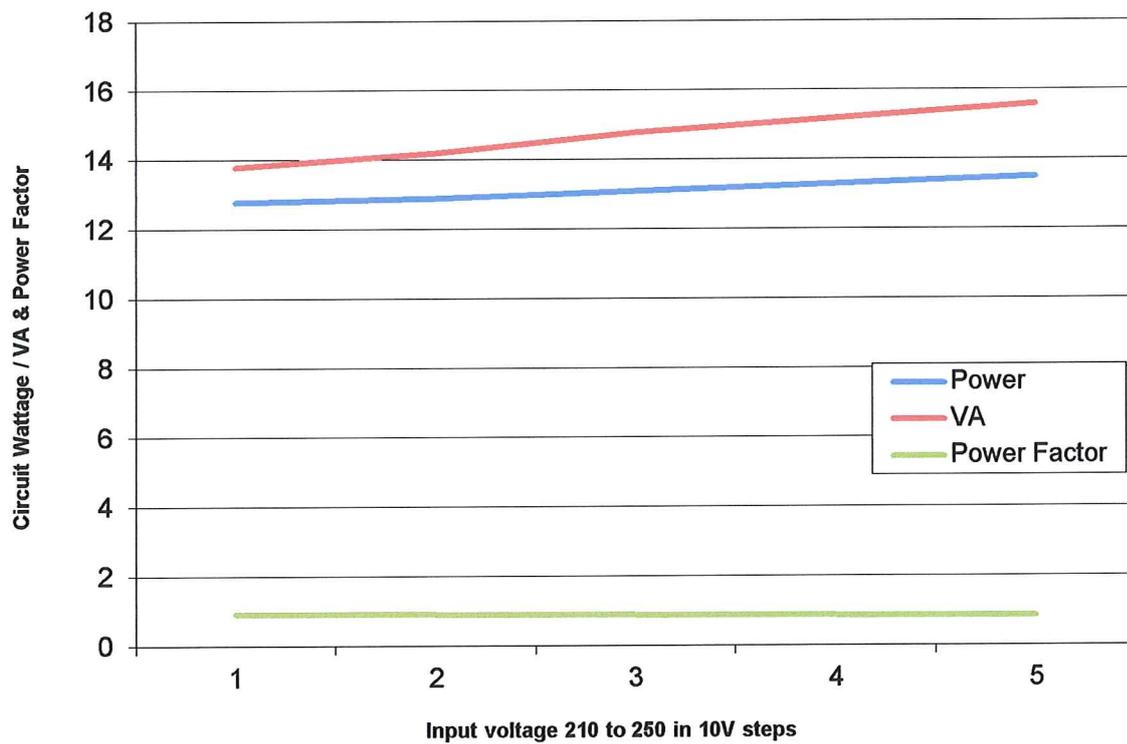
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Graphs of Circuit Wattage Vs Circuit Voltage for each of the 5 Product Samples

Sample No. 1



Sample No. 2

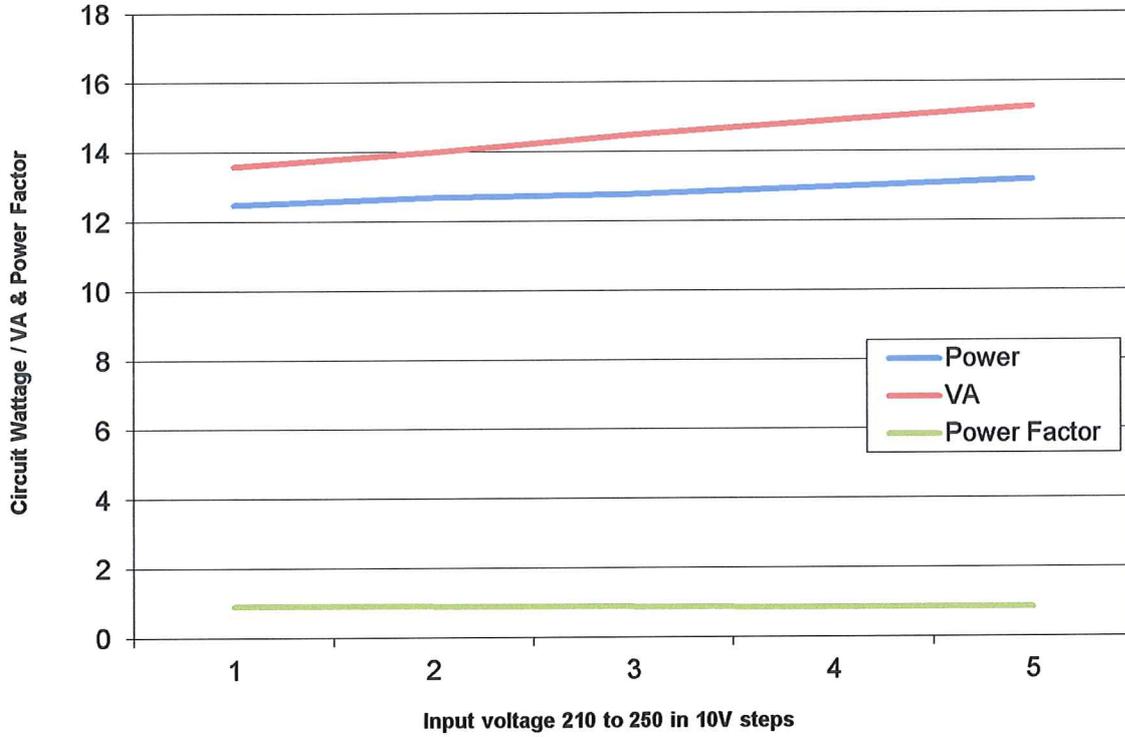


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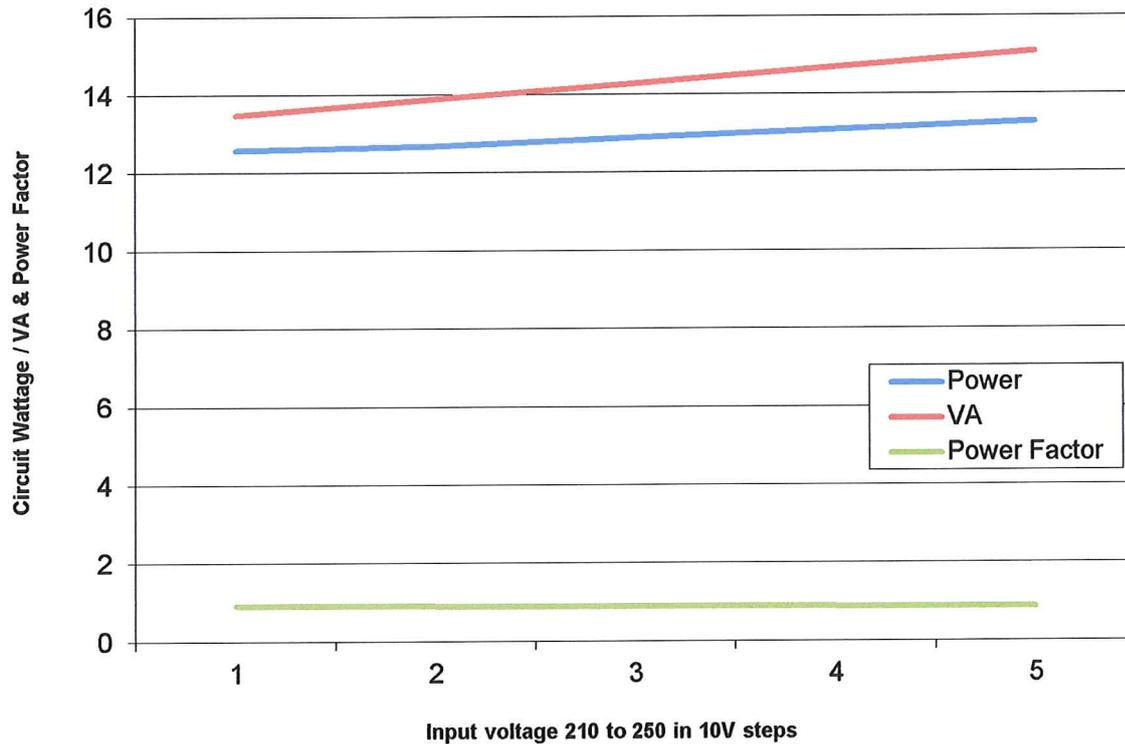
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Sample No. 3



Sample No. 4

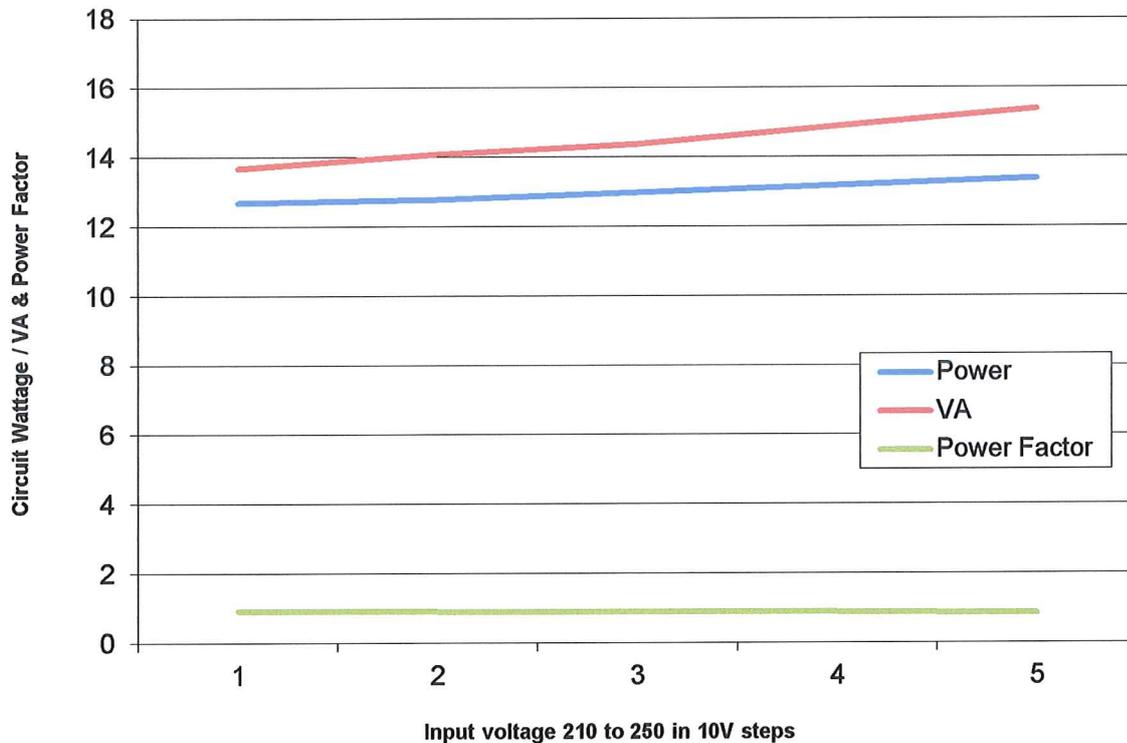


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Sample No. 5



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