

UMSUG TEST REPORT

Report Number: TLR 152

Issued on 12-07-18



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8297

Customer Details

Light Efficient Design
188 S. Northwest Highway
Cary, IL 60013
USA

Customer Reference

TLR 152

Product Tested

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

Product Code Number	LED - 8038 - ** - *** - A
Product Description	14W LED HID RETROFIT LAMP

Date Received: 12-06-18

Test Specification

Measurement of power consumption in accordance with "Unmetered Supplies Operational Information Document Version 18.0 (11th April 2018)".

Date & Sign

Date Tested: 12th July 2018

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%

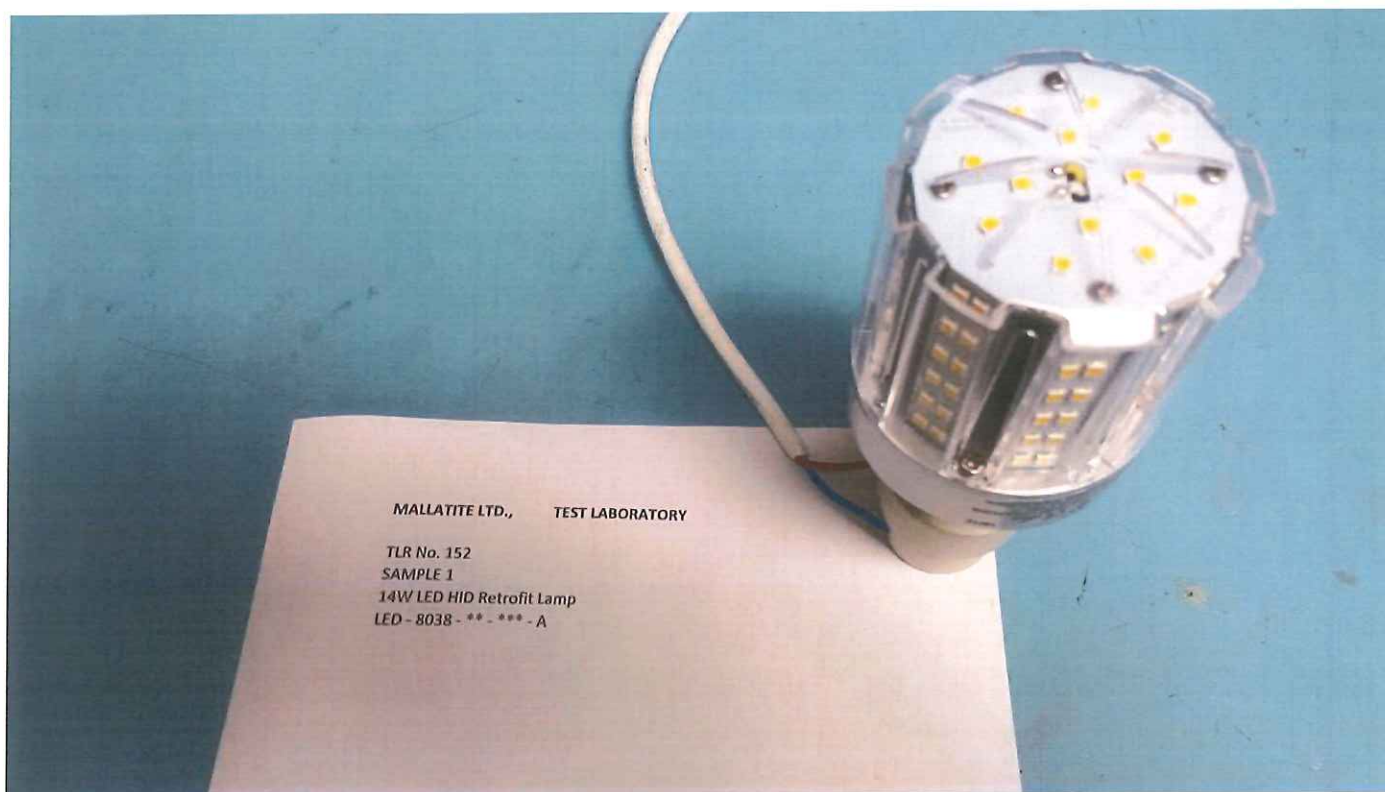
Test Equipment Used

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	14.1	14.8	0.96
	220	14.1	15	0.94
	230	14.2	15	0.94
	240	14.2	15.1	0.94
	250	14.3	15.4	0.93

Sample No.2	Voltage	Watts	VA	Power Factor
	210	14.3	15	0.96
	220	14.3	15	0.95
	230	14.3	15	0.95
	240	14.3	15.1	0.95
	250	14.3	15.1	0.95

Sample No.3	Voltage	Watts	VA	Power Factor
	210	14.4	15	0.96
	220	14.4	15.2	0.95
	230	14.4	15.1	0.95
	240	14.5	15.2	0.95
	250	14.5	15.3	0.95

Sample No.4	Voltage	Watts	VA	Power Factor
	210	13.9	14.5	0.96
	220	14	14.7	0.95
	230	14.1	14.9	0.94
	240	14	14.9	0.94
	250	14.1	15	0.94

Sample No.5	Voltage	Watts	VA	Power Factor
	210	14	14.6	0.96
	220	14.1	14.9	0.95
	230	14.1	15	0.94
	240	14.1	15	0.94
	250	14.3	15.1	0.94

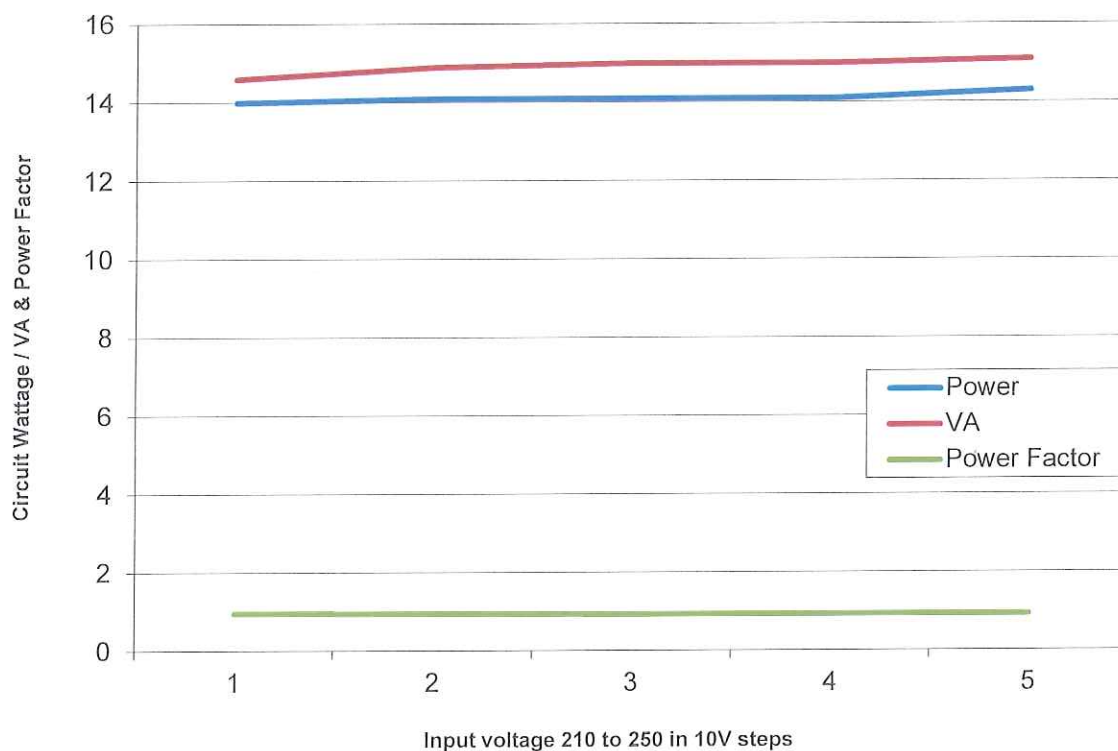
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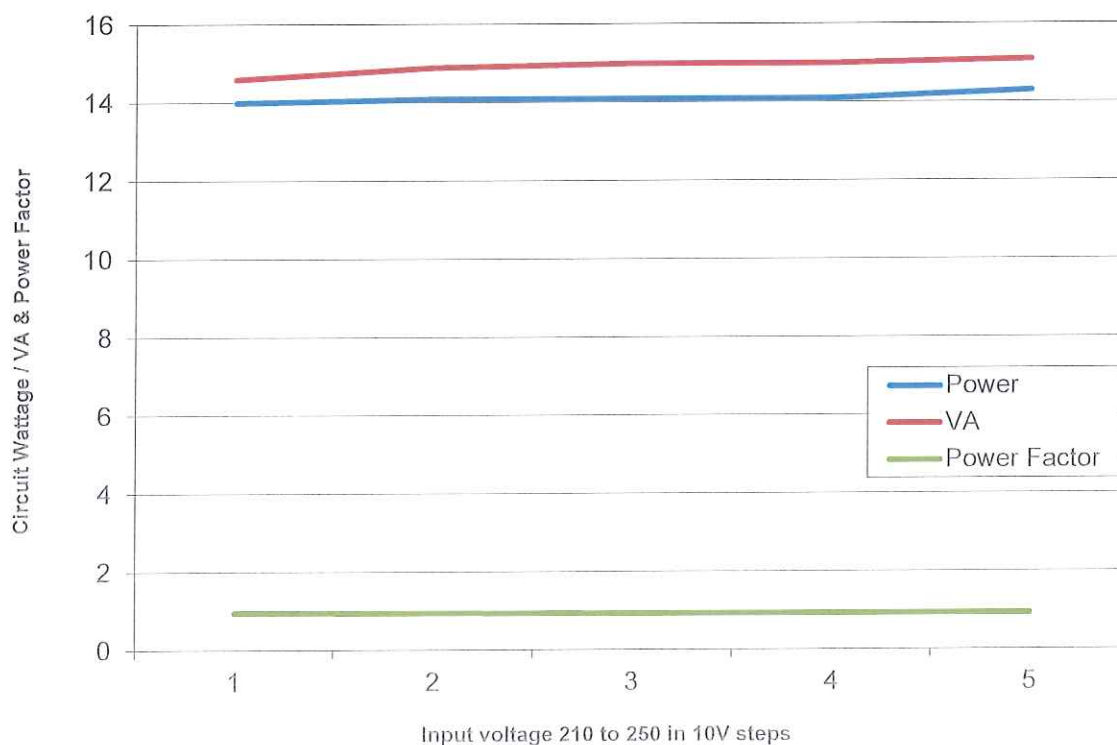
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Graphs of Circuit Wattage Vs Circuit Voltage for each of the 5 Product Samples

Sample No. 1



Sample No. 2

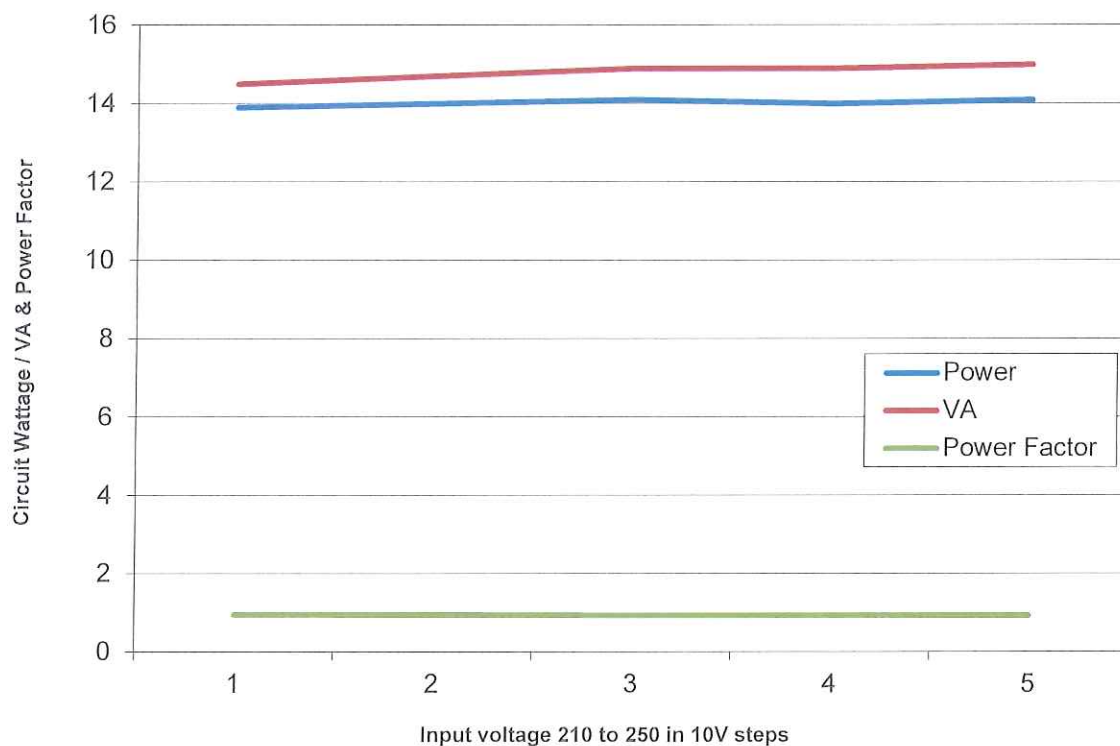


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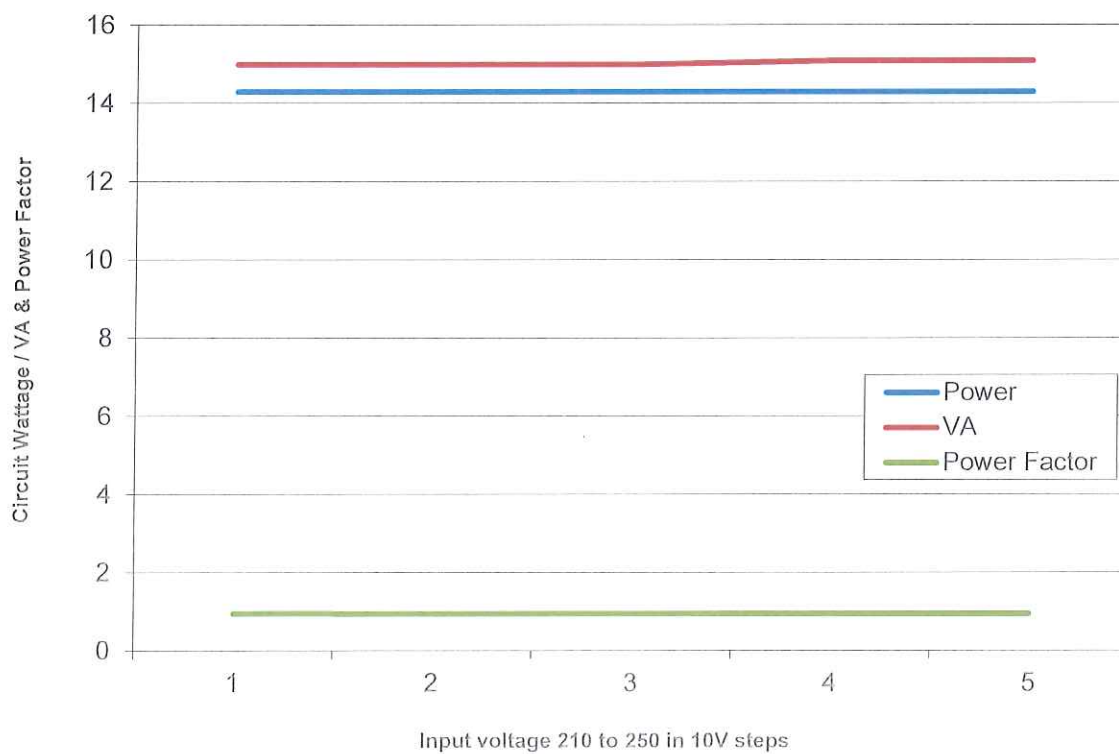
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Sample No. 3



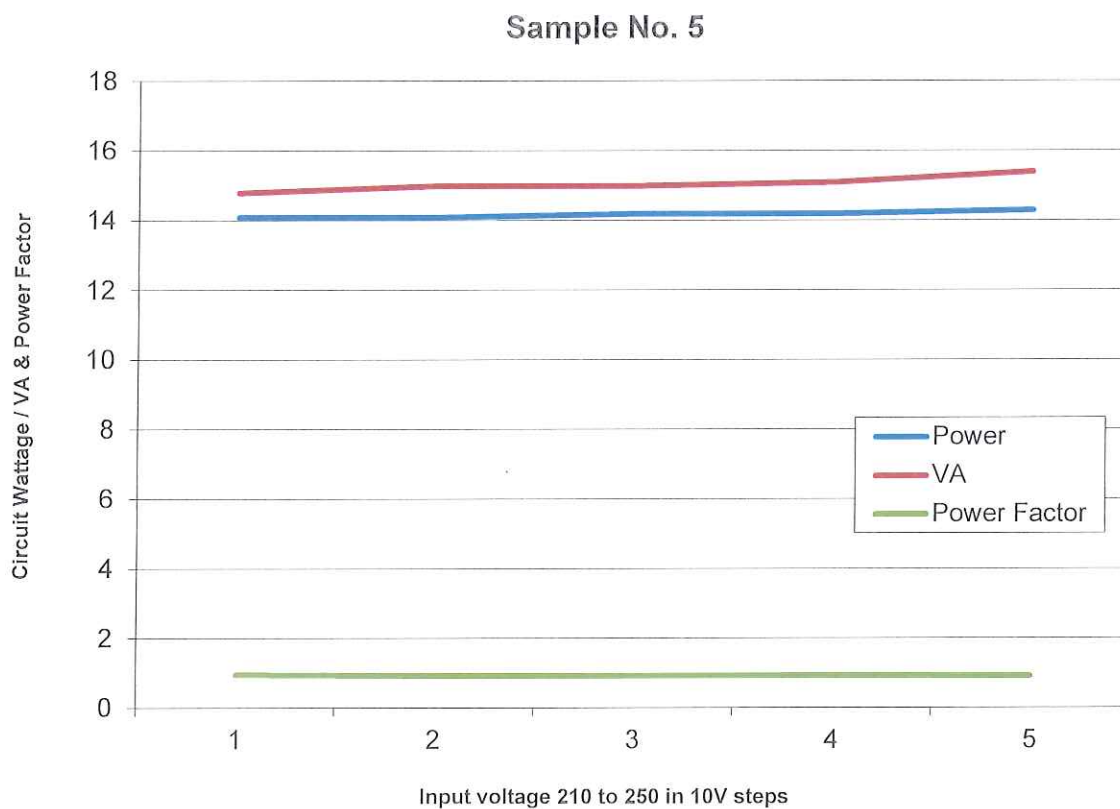
Sample No. 4



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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 18); and
2. Mallatite Ltd Testing Schedule 8297 (version 006).

The results are compliant.

END OF TEST REPORT