UMSUG TEST REPORT

Report Number: TLR 113

Issued on 22/01/2015

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Customer Details

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

Customer Reference

TLR113

Product Tested

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

Product Code Number	**LED-8029-DL-E27**
Product Description	**24W LED Replacement Lamp**

Date Received: 17/12/2014

Test Specification

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

Date & Sign

Date Tested: 09/01/2015

Test Conducted By: Haseeb Mirza (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	24.9	25.6	0.97
	220	25.1	26.0	0.97
	230	25.2	26.3	0.96
	240	25.4	26.8	0.95
	250	25.6	27.1	0.94

Sample No.2	Voltage	Watts	VA	Power Factor
	210	26.5	27.0	0.99
	220	26.7	27.2	0.98
	230	26.8	27.4	0.98
	240	27.0	27.8	0.97
	250	27.1	28.0	0.97

Sample No.3	Voltage	Watts	VA	Power Factor
	210	26.2	26.6	0.98
	220	26.3	26.9	0.98
	230	26.4	27.1	0.98
	240	26.6	27.5	0.97
	250	26.7	27.6	0.97

Sample No.4	Voltage	Watts	VA	Power Factor
	210	26.1	26.5	0.98
	220	26.2	26.8	0.98
	230	26.3	27.0	0.98
	240	26.6	27.5	0.97
	250	26.6	27.5	0.97

Sample No.5	Voltage	Watts	VA	Power Factor
	210	24.1	24.6	0.98
	220	24.3	25.0	0.98
	230	24.6	25.3	0.97
	240	24.8	25.7	0.97
	250	24.8	25.9	0.96

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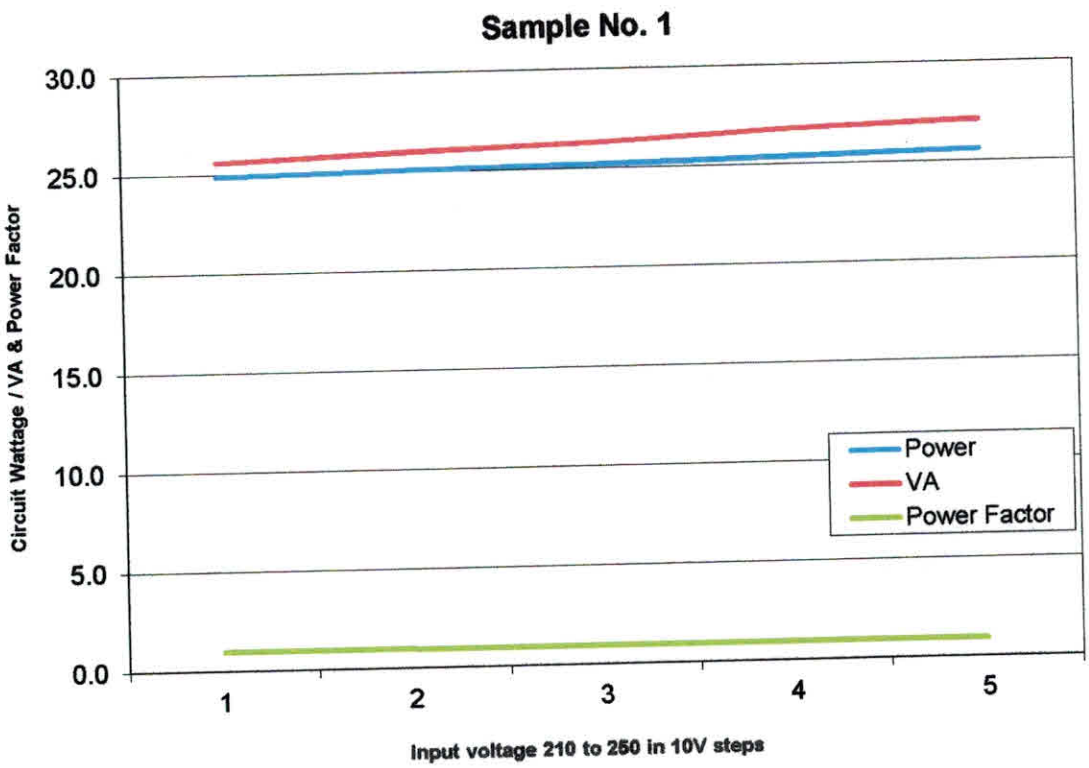
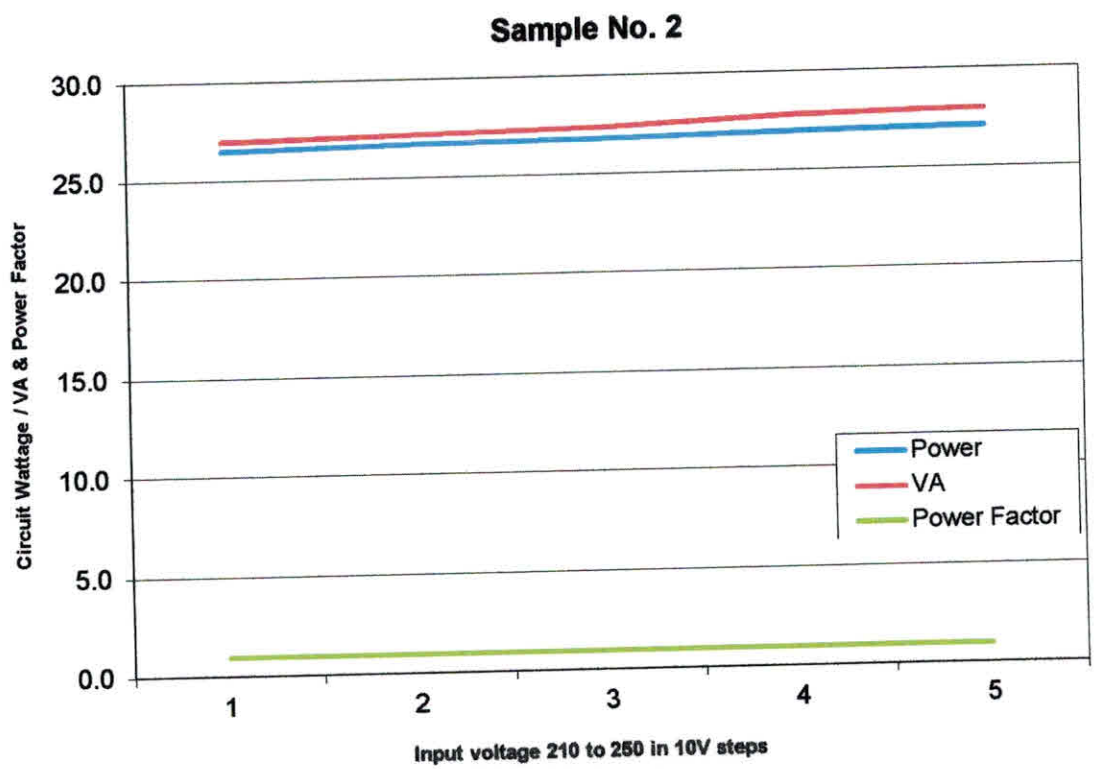
Graphs of Circuit Wattage Vs Circuit Voltage for each of the 5 Product Samples





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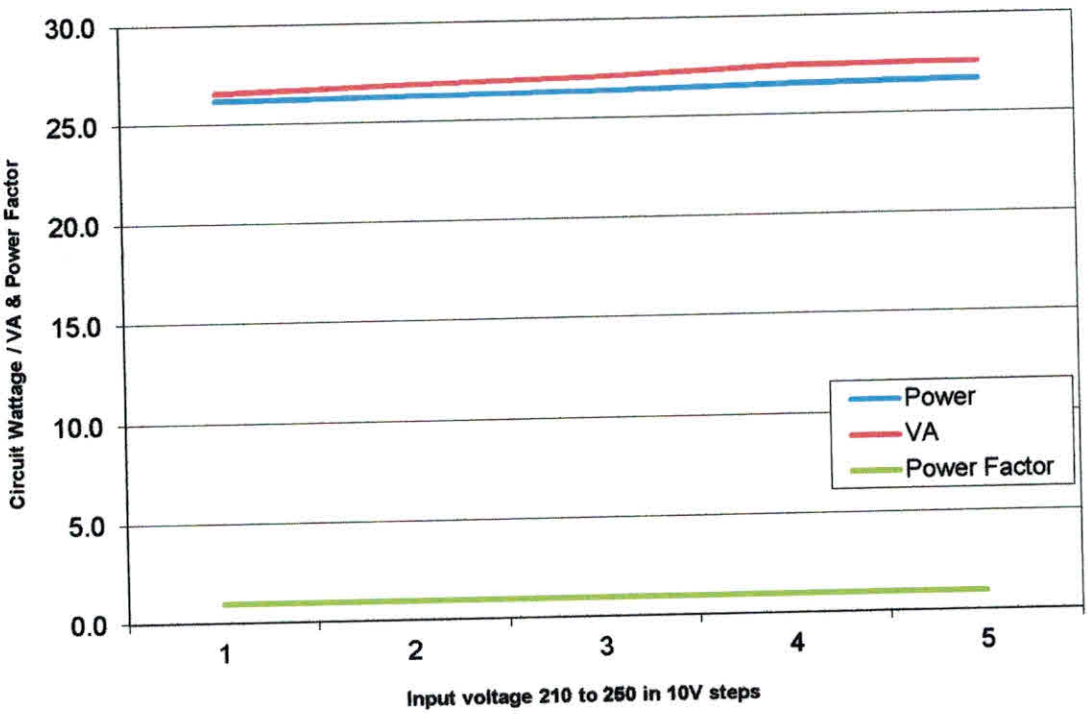
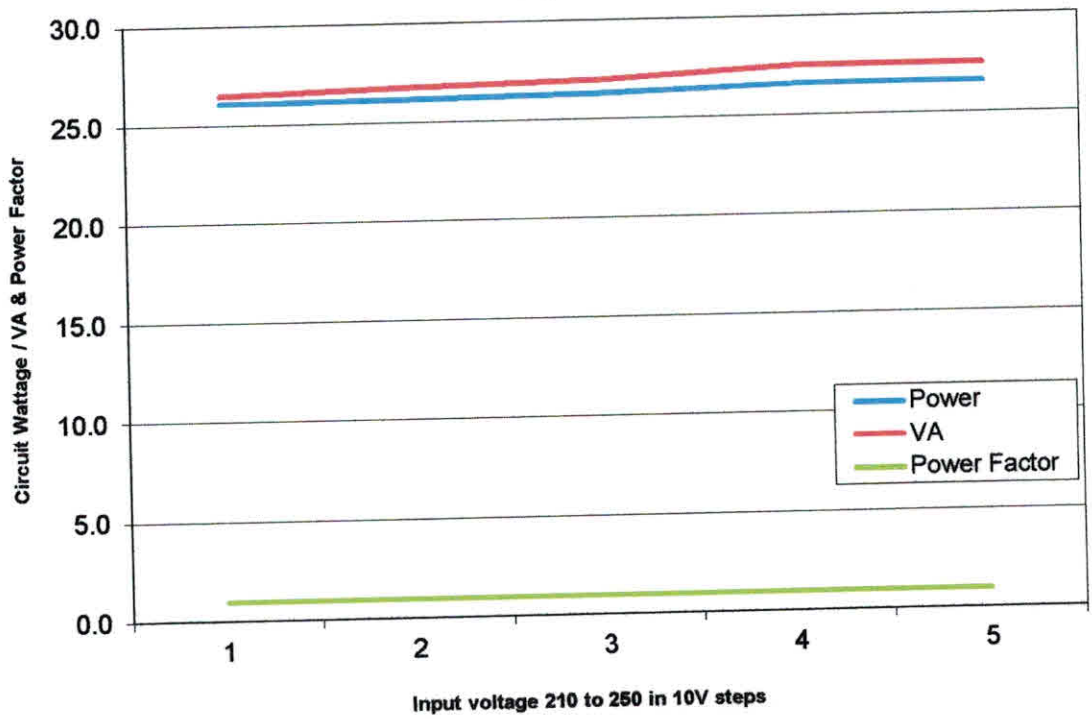
Sample No. 3



Sample No. 4



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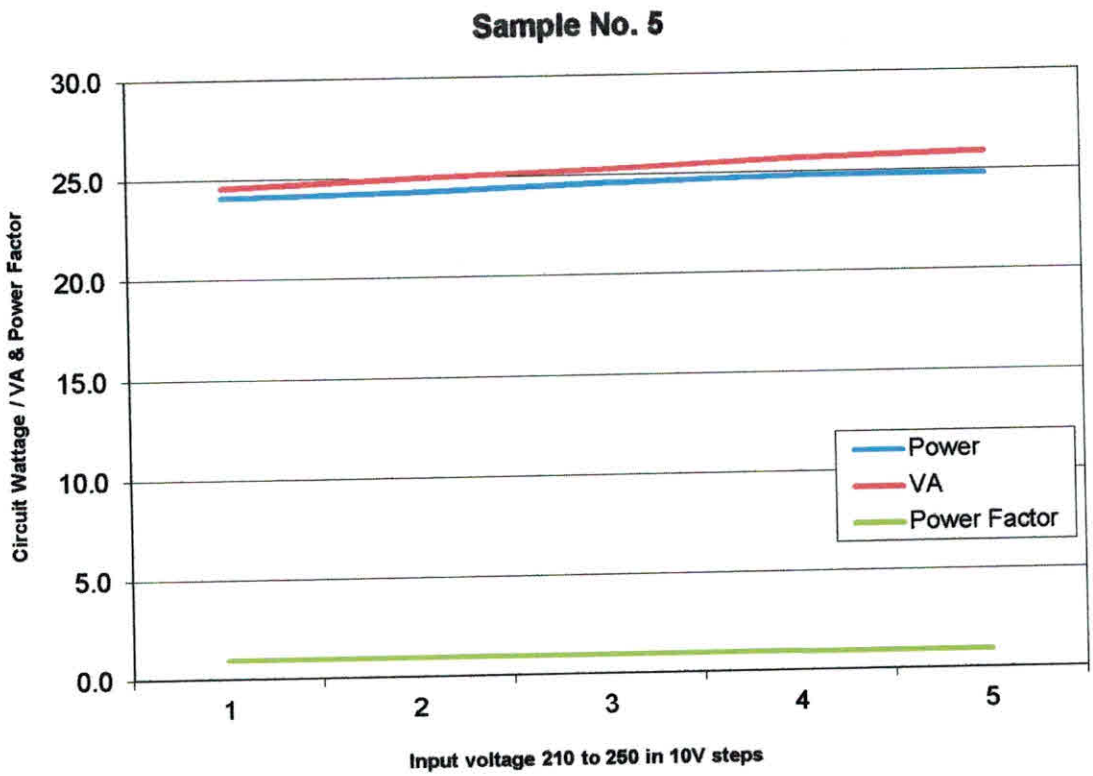

END OF TEST REPORT