

UMSUG TEST REPORT

Report Number: TLR 113

Issued on 21/01/2015



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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-8023-DL-E27
Product Description	35W 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: 15/01/2015

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	35.0	36.5	0.96
	220	35.1	36.8	0.95
	230	35.1	37.1	0.95
	240	35.3	37.8	0.93
	250	35.4	38.3	0.92

Sample No.2	Voltage	Watts	VA	Power Factor
	210	34.5	35.9	0.96
	220	34.6	36.2	0.96
	230	34.7	36.6	0.95
	240	34.8	37.1	0.94
	250	34.9	37.7	0.93

Sample No.3	Voltage	Watts	VA	Power Factor
	210	35.9	37.3	0.96
	220	36.0	37.6	0.96
	230	36.1	38.1	0.95
	240	36.2	38.6	0.94
	250	36.4	39.1	0.93

Sample No.4	Voltage	Watts	VA	Power Factor
	210	37.1	38.5	0.96
	220	37.2	38.8	0.96
	230	37.3	39.2	0.95
	240	37.4	39.7	0.94
	250	37.5	40.3	0.93

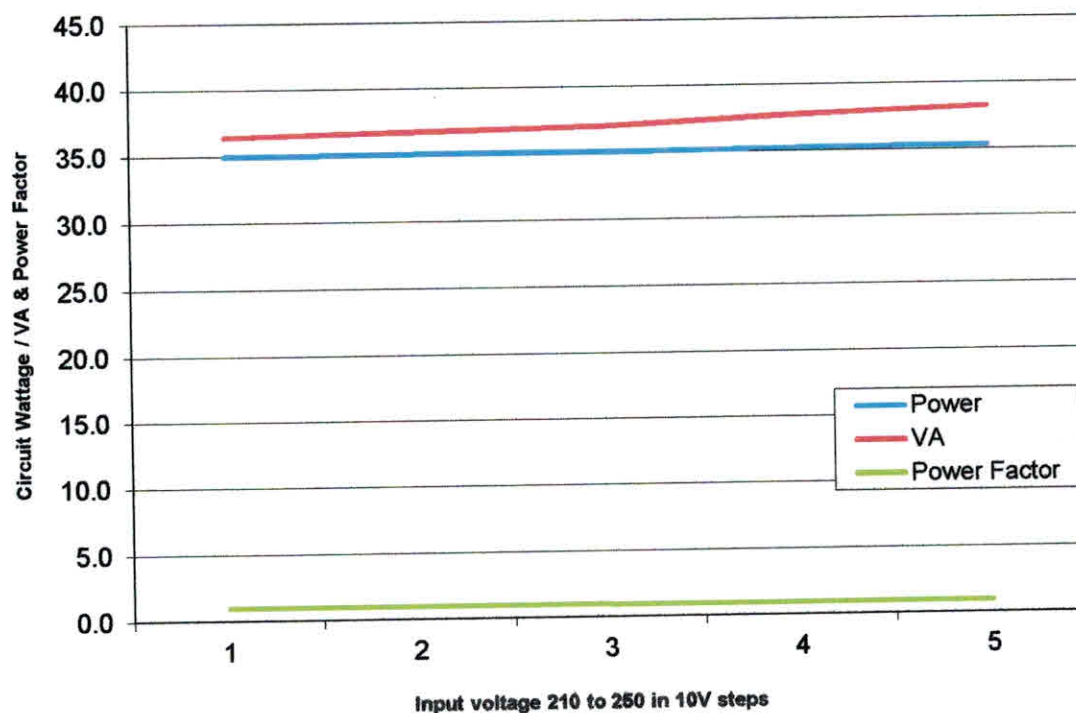
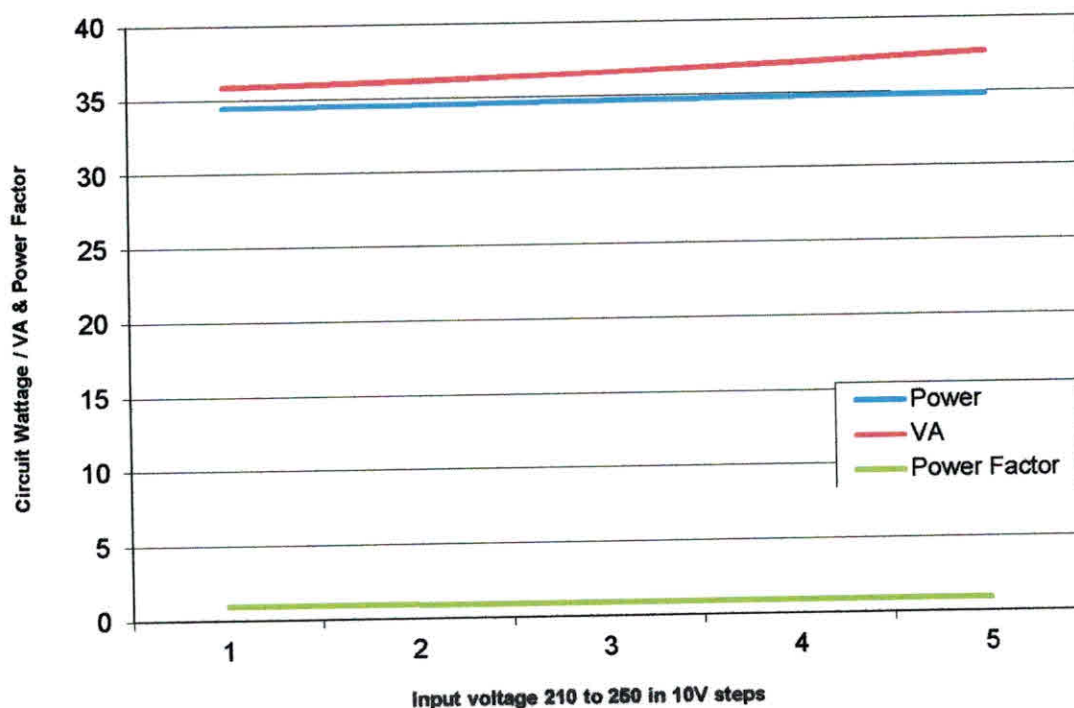
Sample No.5	Voltage	Watts	VA	Power Factor
	210	35.1	36.6	0.96
	220	35.3	37.0	0.95
	230	35.3	37.2	0.95
	240	35.6	38.0	0.94
	250	36.4	39.3	0.93

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

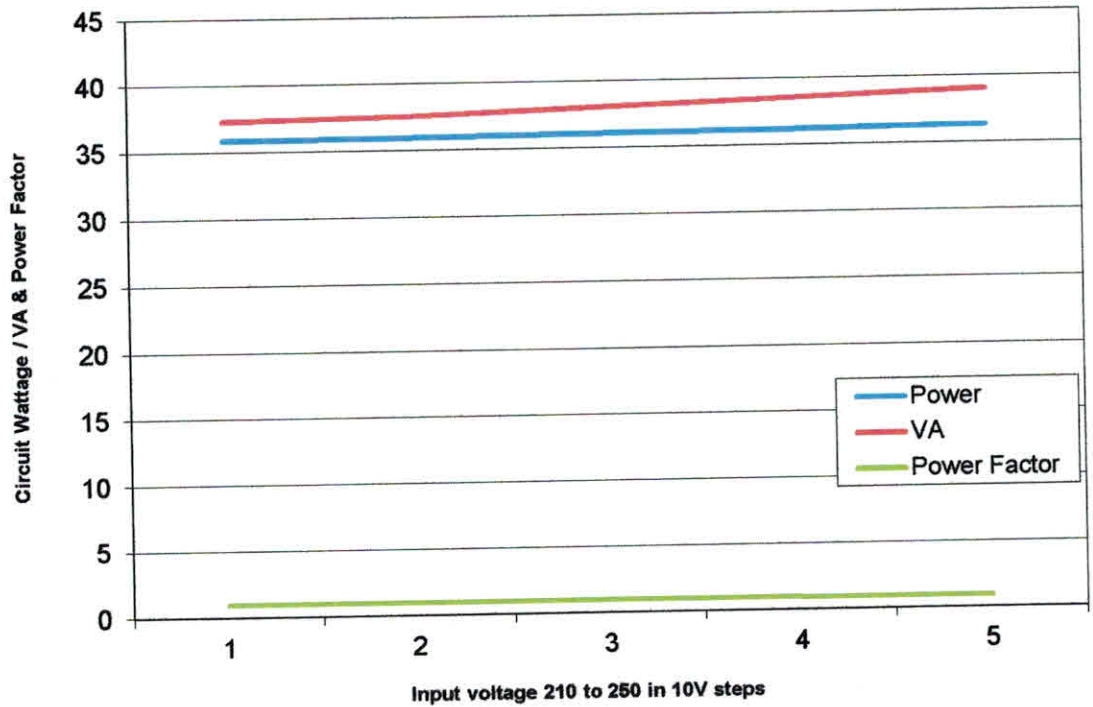
Sample No. 1**Sample No. 2**

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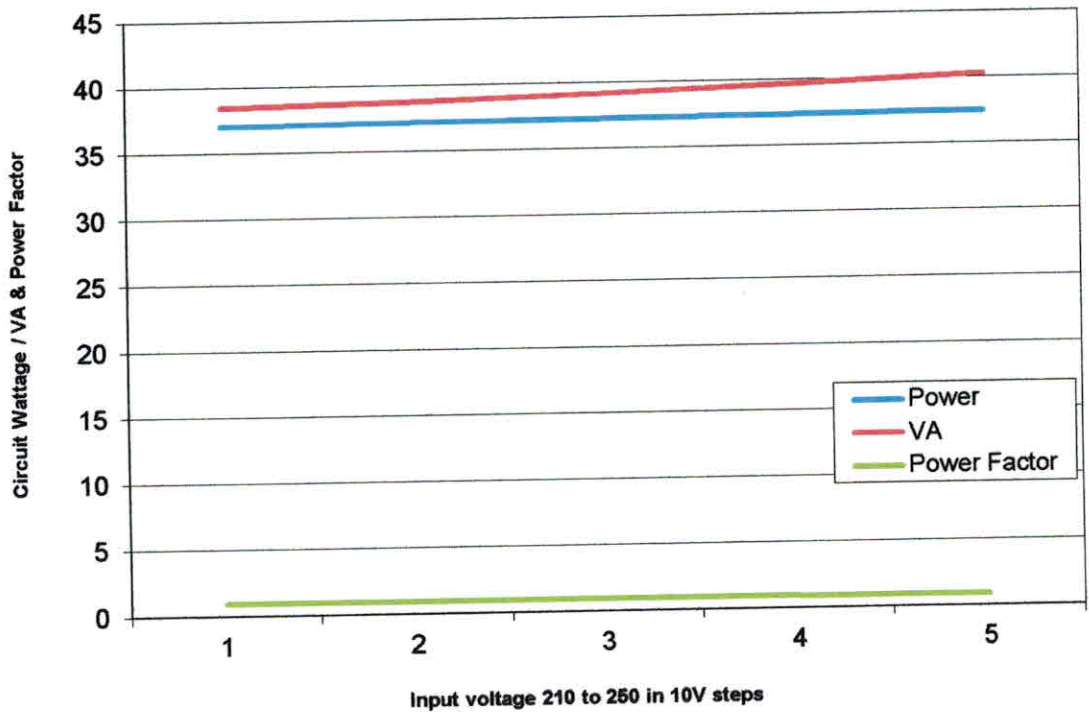
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Sample No. 3



Sample No. 4

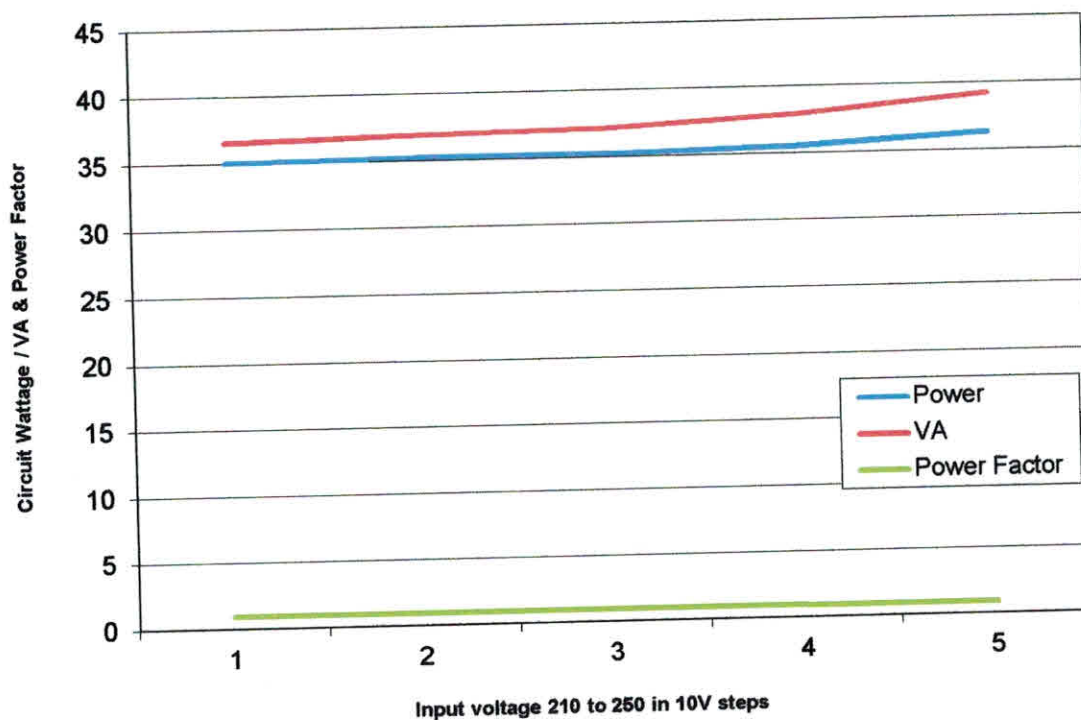


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Sample No. 5



END OF TEST REPORT