

# UMSUG TEST REPORT

Report Number: TLR 113

Issued on 22/01/2015



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8297

## 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-8033-DL-E27
Product Description	38W 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 (17<sup>th</sup> December 2014)".

## Date & Sign

Date Tested: 14/01/2015

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	39.1	40.2	0.97
	220	39.1	40.5	0.97
	230	39.2	40.8	0.96
	240	39.2	41.2	0.95
	250	39.3	41.7	0.94

Sample No.2	Voltage	Watts	VA	Power Factor
	210	39.5	41.6	0.95
	220	39.5	41.8	0.95
	230	39.6	42.5	0.93
	240	39.7	43.1	0.92
	250	39.8	43.7	0.91

Sample No.3	Voltage	Watts	VA	Power Factor
	210	39.7	40.9	0.97
	220	39.7	41.1	0.97
	230	39.8	41.5	0.96
	240	39.8	42.1	0.95
	250	39.9	42.4	0.94

Sample No.4	Voltage	Watts	VA	Power Factor
	210	39.6	40.8	0.97
	220	39.6	41.1	0.96
	230	39.7	41.6	0.96
	240	39.7	42.0	0.95
	250	39.8	42.3	0.94

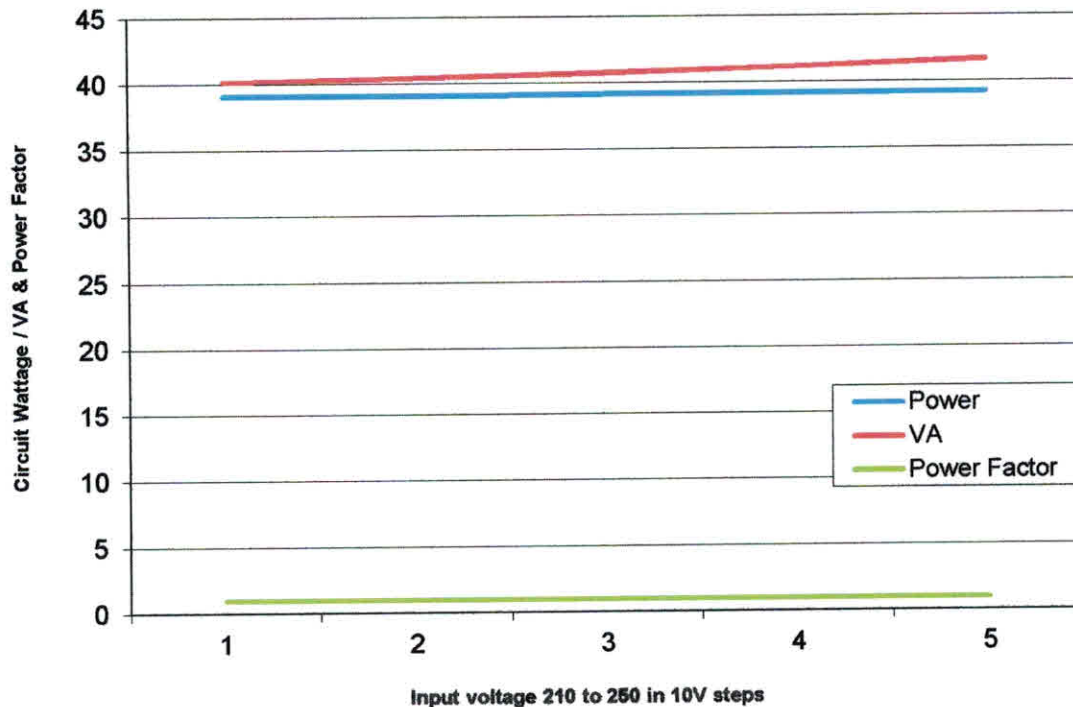
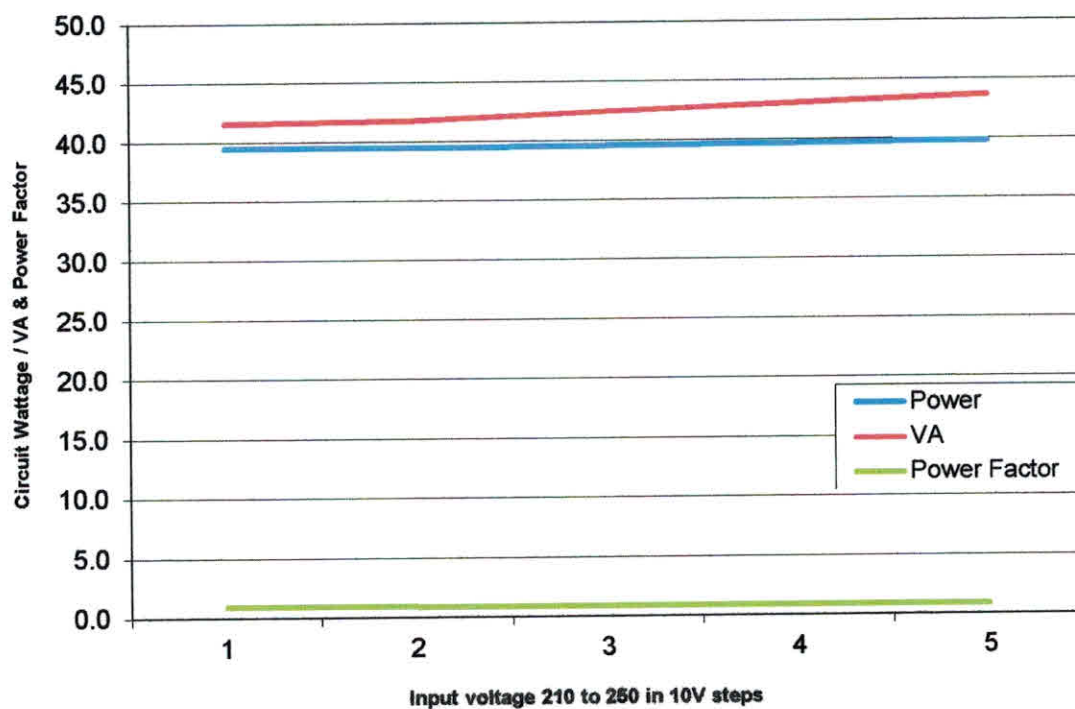
Sample No.5	Voltage	Watts	VA	Power Factor
	210	39.6	40.8	0.97
	220	39.6	41.0	0.97
	230	39.7	41.4	0.96
	240	39.7	41.9	0.95
	250	39.8	42.3	0.94

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

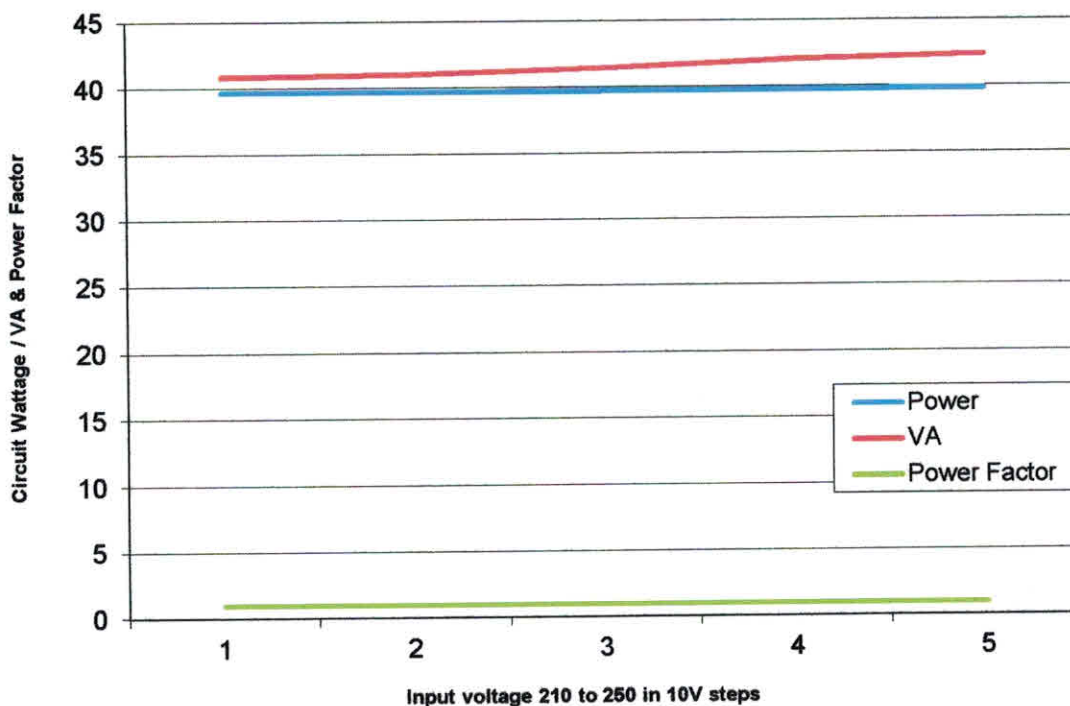
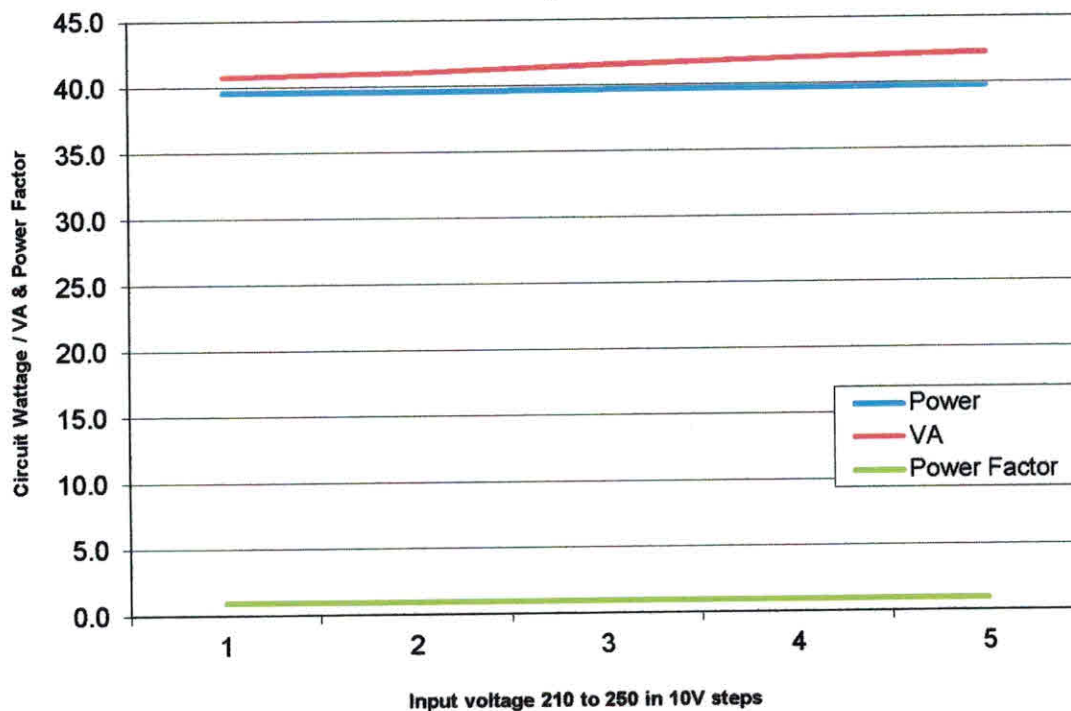
**Sample No. 1****Sample No. 2**



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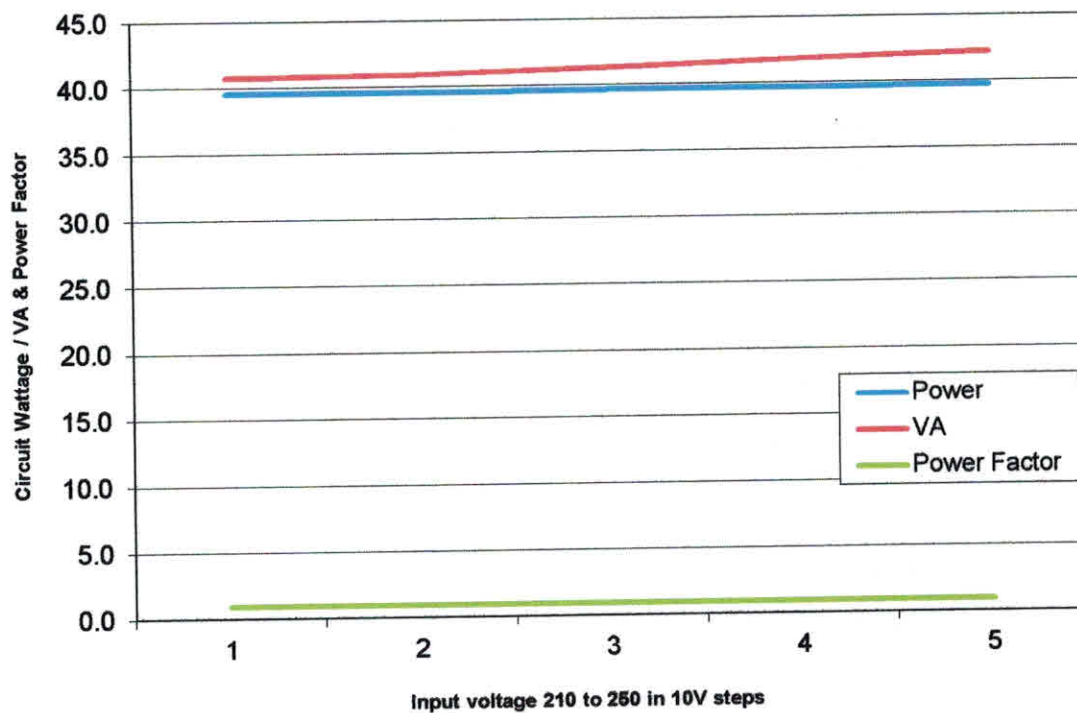
**Sample No. 3****Sample No. 4**

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## Sample No. 5



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END OF TEST REPORT