

# UMSUG TEST REPORT

Report Number: TLR 145

Issued on 01-11-17



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## Customer Details

Mallatite Ltd  
Hainge Road  
Tivdale, 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 (15<sup>th</sup> 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%

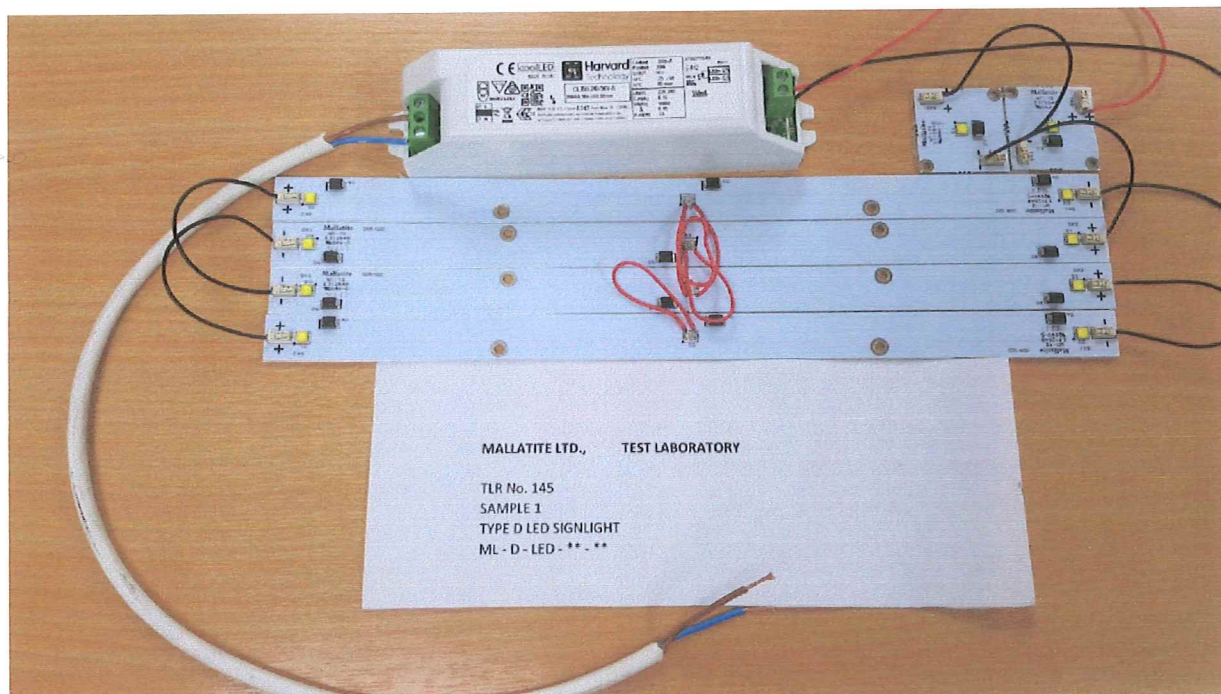
## Test Equipment Used

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         |

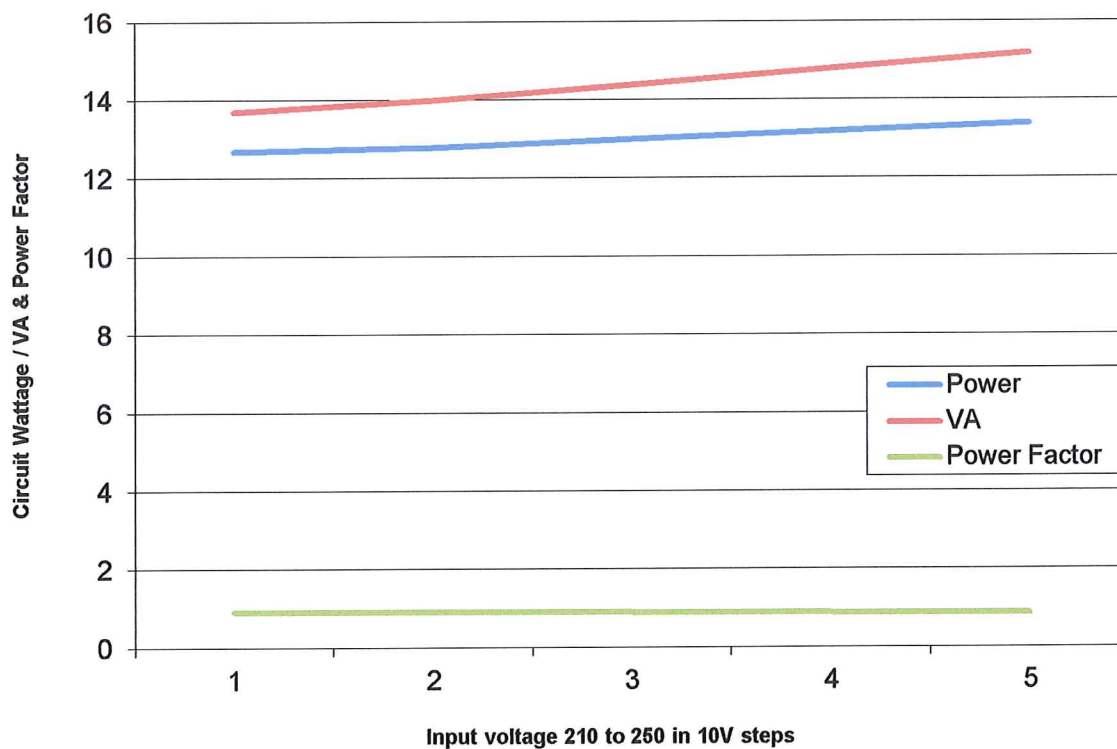
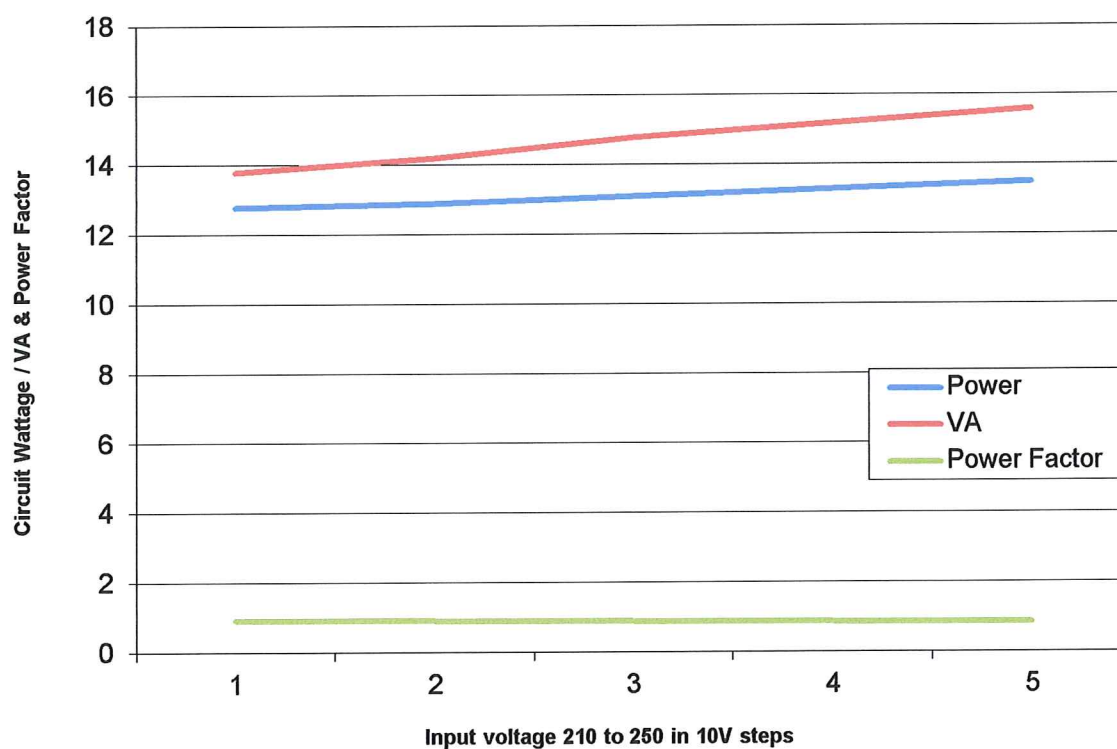
| Sample No.5 | Voltage | Watts | VA   | Power Factor |
|-------------|---------|-------|------|--------------|
|             | 210     | 12.7  | 13.7 | 0.93         |
|             | 220     | 12.8  | 14   | 0.92         |
|             | 230     | 13    | 14.4 | 0.91         |
|             | 240 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

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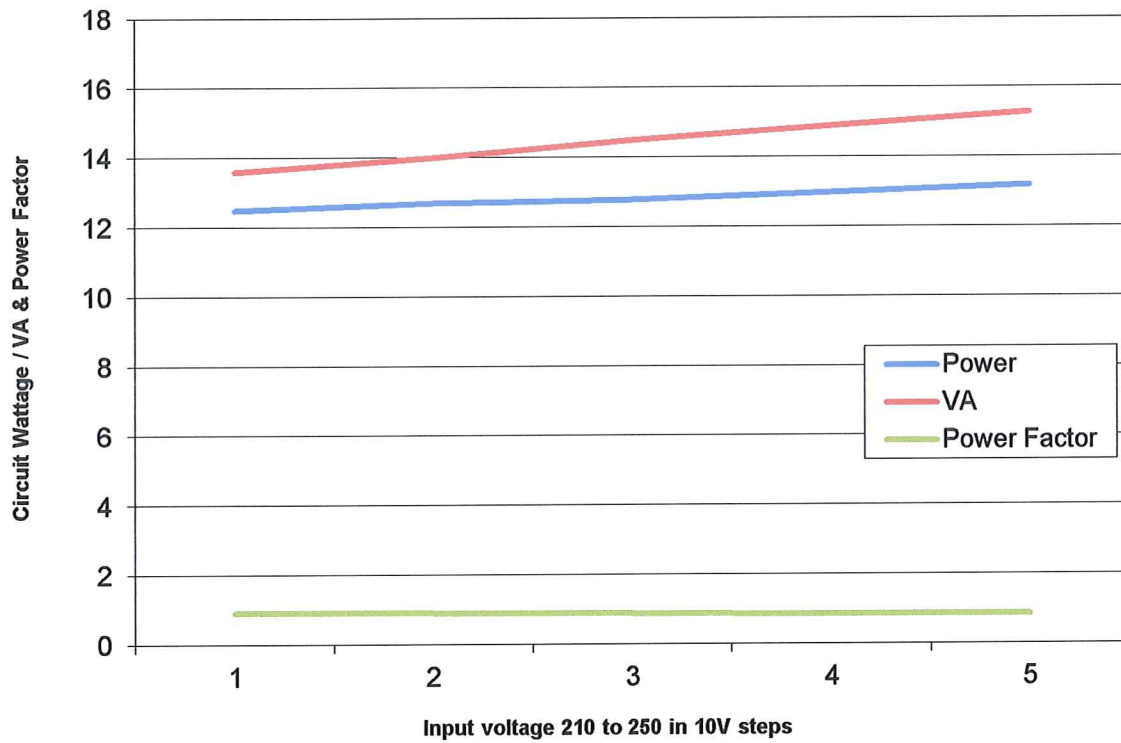
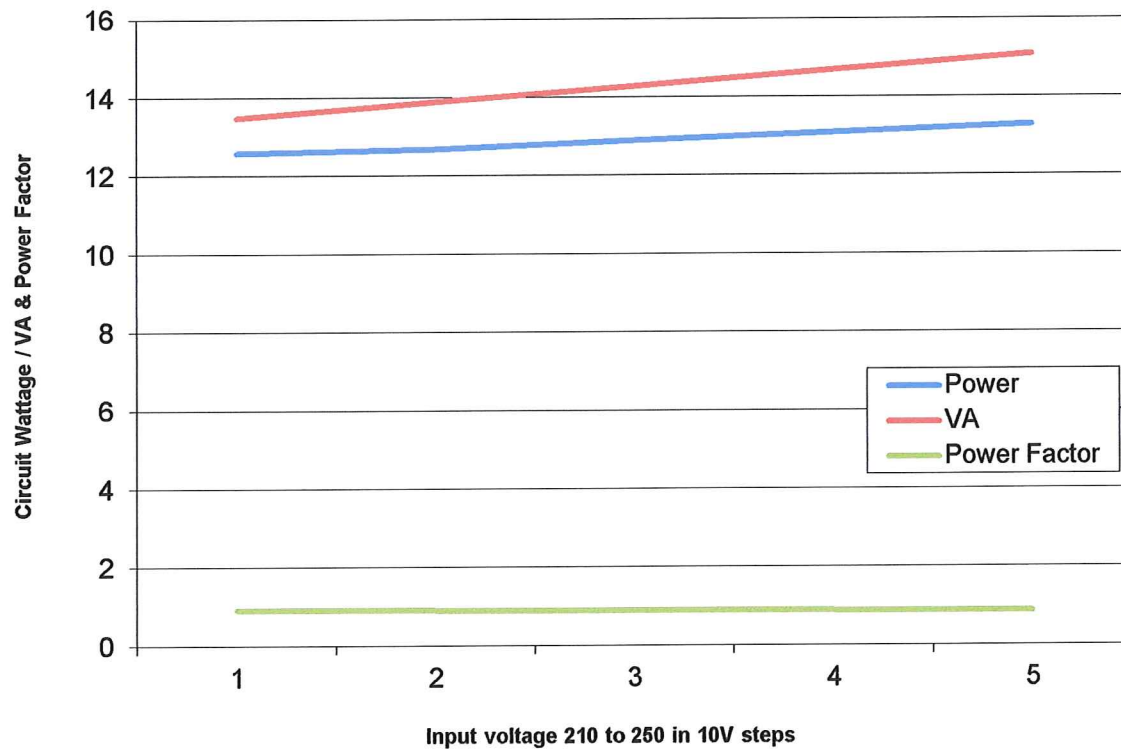
## Graphs of Circuit Wattage Vs Circuit Voltage for each of the 5 Product Samples

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

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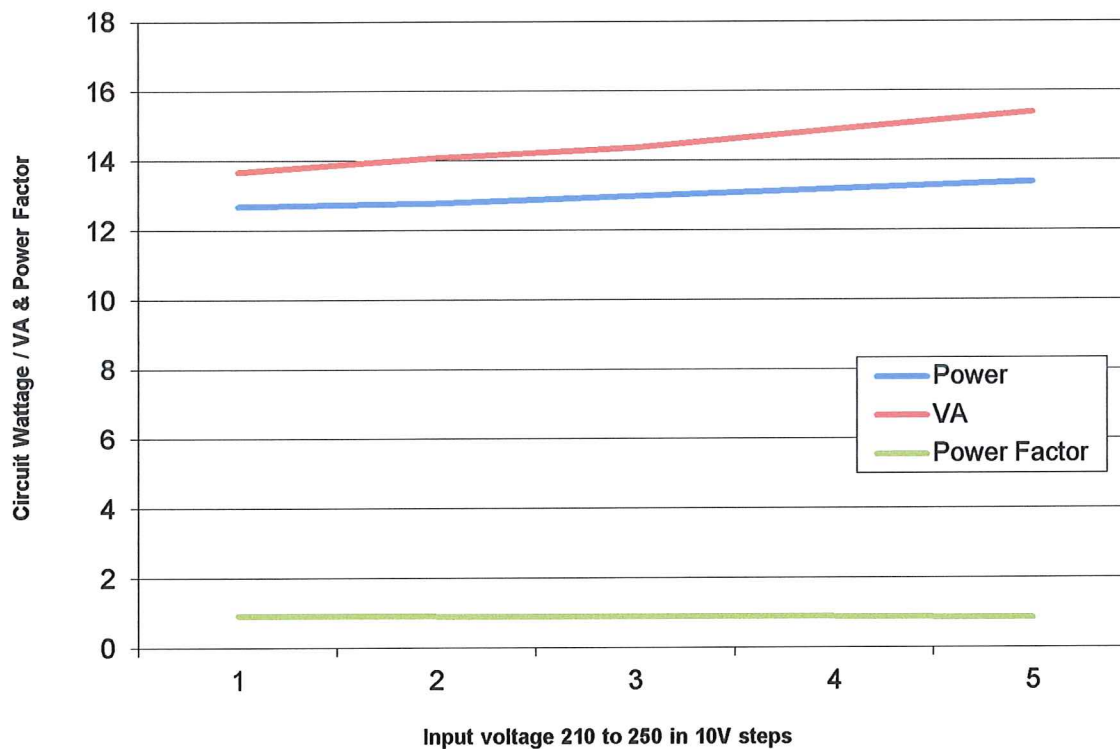
**Sample No. 3****Sample No. 4**

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## Sample No. 5



## 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