

## T e s t R e p o r t

**Report No** : L15838A

**Client:** : Smart Electronic Technologies Ltd  
Stableway, North Street  
Winkfield  
Berkshire  
SL4 4SY

**Description** : Flux Tyako LED Street Light

**Manufacturer** : Not disclosed

**Type/Model** : TYA-56

**Test Specification** : Measurement of power consumption in accordance with the  
'Unmetered Supplies Operational Information Document' –  
Version 14.0 (17/12/2014)

**Date Testing Started** : 10/06/2016


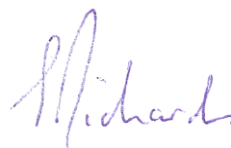
**Conclusion** : Refer to body of report

**Date of Issue** : 22/06/2016

**Date of Expiry** : 21/06/2021

**Tested by:** M. ALI  
**Position:** Photometry Engineer

**Approved:** S. RICHARDS  
**Position:** Photometry Team Leader

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## **INTRODUCTION**

Smart Electronic Technologies Ltd has supplied the product identified in table 1 for measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 14.0 (17/12/2014).

## **PRODUCT DETAILS**

**Table 1. Test Sample Details**

Product Description	Flux Tyako LED Street Light
Model No.	TYA-56
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	841mm x 234mm x 134mm
Product Supply Requirement	120-277V AC, 50/60Hz
Lamp Type and Power	LED 56W
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

The customer has declared that the equipment load does not vary with ambient temperature.

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## **RESULTS**

**Table 2. Wattage and VA results for Flux Tyako LED Street Light**

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	55.30	55.63	55.20	54.97	55.22
220	55.33	55.66	55.23	55.00	55.26
230	55.37	55.69	55.28	55.04	55.29
240	55.43	55.74	55.34	55.11	55.35
250	55.51	55.81	55.42	55.19	55.43
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	56.63	57.03	56.54	56.23	56.33
220	56.90	57.31	56.82	56.48	56.80
230	57.20	57.63	57.14	56.76	57.08
240	57.56	58.02	57.52	57.10	57.44
250	57.98	58.47	57.96	57.47	57.84
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.98	0.98	0.98	0.98	0.98
220	0.97	0.97	0.97	0.97	0.97
230	0.97	0.97	0.97	0.97	0.97
240	0.96	0.96	0.96	0.97	0.96
250	0.96	0.95	0.96	0.96	0.96
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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### **DEVIATION(S) FROM TEST STANDARD**

No reported deviations from test standard.

### **MEASUREMENT UNCERTAINTY**

The following expanded uncertainties apply to the measurements shown in the results;

True Power (W):  $\pm 0.69\%$ , Apparent Power (VA):  $\pm 0.61\%$

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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**ILLUSTRATION**



**Figure 1. Product image**

**End**

This page is to be read in conjunction with the first page of this report