



Test Report

Report No : L14677
Client: : Vestel UK Ltd
Vestel House
Waterside Drive
Langley, Berkshire, SL3 6EZ
Description : Streetlight Neutral White M5 35W
Manufacturer : Not Disclosed
Type/Model : LED ROAD M5 35W
Test Specification : Measurement of power consumption in accordance with the
"Unmetered Supplies Operational Information" document –
Version 13.0 (7/11/13)
Date Tested : 17/11/14
Conclusion : Refer to body of Report
Date of Issue : 14/11/14
Date of Expiry : 13/11/19

Tested by: S.RICHARDS
Position: Photometry Engineer



Approved by: J.ADAMS
Position: Laboratory Supervisor

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INTRODUCTION

Vestel UK Ltd has supplied the product identified in table 1 for measurement of power consumption in accordance with the “Unmetered Supplies Operational Information” document – Version 13.0 (7/11/13).

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	Streetlight Neutral White M5 35W
Model No.	LED ROAD M5 35W
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	Not Applicable
Product Supply Requirement	220V - 240V 50Hz
Lamp Type and Power	LED, 35W
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

RESULTS

Table 2. Wattage and VA results for Streetlight Neutral White M5 35W

Operating Mode	100% (10V DC)				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	34.10	34.18	33.63	34.74	34.75
220	34.12	34.20	33.64	34.77	34.78
230	34.14	34.23	33.67	34.78	34.81
240	34.18	34.26	33.71	34.83	34.84
250	34.24	34.31	33.75	34.87	34.90
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	37.47	36.29	37.46	38.89	38.65
220	37.90	36.68	37.95	39.38	39.14
230	38.40	37.13	38.46	39.88	39.66
240	38.95	37.62	39.04	40.46	40.22
250	39.57	38.18	39.67	41.09	40.86

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RESULTS

Table 3. *Wattage and VA results for Streetlight Neutral White M5 35W*

Operating Mode	75% (7.5V DC)				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	28.48	31.96	30.79	31.89	29.47
220	28.62	32.00	30.86	31.94	29.49
230	28.66	32.10	30.92	31.98	29.55
240	28.66	32.15	30.96	32.01	29.61
250	28.74	32.20	31.05	32.08	29.66
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	32.45	34.22	34.98	36.37	34.01
220	33.07	34.65	35.53	36.91	34.55
230	33.63	35.18	36.14	37.48	35.16
240	34.21	35.72	36.76	38.08	35.83
250	34.88	36.33	37.45	38.76	36.50

Table 4. *Wattage and VA results for Streetlight Neutral White M5 35W*

Operating Mode	50% (5V DC)				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	18.83	22.82	21.78	22.46	19.01
220	18.90	22.88	21.80	22.55	19.07
230	18.92	22.92	21.83	22.62	19.11
240	19.00	22.99	21.90	22.67	19.16
250	19.08	23.05	21.97	22.74	19.22
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	24.33	25.90	27.37	28.38	25.35
220	25.00	26.45	28.00	29.04	26.06
230	25.70	27.03	28.68	29.73	26.80
240	26.48	27.73	29.44	30.47	27.57
250	27.33	28.48	30.21	31.25	28.40

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RESULTS

Table 4. *Wattage and VA results for Streetlight Neutral White M5 35W*

Operating Mode	25% (2.5V DC)				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	8.38	13.04	12.50	12.96	8.73
220	8.43	13.09	12.55	13.01	8.80
230	8.54	13.14	12.62	13.07	8.89
240	8.67	13.20	12.67	13.14	9.00
250	8.78	13.27	12.75	13.21	9.12
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	17.45	17.72	20.60	21.54	18.94
220	18.54	18.47	21.39	22.34	20.03
230	19.58	19.27	22.22	23.15	21.06
240	20.62	20.11	23.08	24.00	22.02
250	21.58	21.04	23.99	24.90	22.96

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. *Image of tested samples*

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