



Test Report

Report No : L14424
Client: : Vestel UK Ltd
Dedworth Road
Windsor
Berkshire, SL4 AY
Description : Streetlight Neutral White M4 and M5
Manufacturer : Not Disclosed
Type/Model : LED Street M4 68W
LED Street M5 47W
Test Specification : Measurement of power consumption in accordance with the
“Unmetered Supplies Operational Information” document –
Version 13.0 (7/11/13)
Date Tested : 22/07/14
Conclusion : Refer to body of Report
Date of Issue : 23/07/14
Date of Expiry : 22/07/19

Tested by: C.LOVEITT
Position: Laboratory Technician

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	Street light neutral white M5
Model No.	LED ROAD M5 47W
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	Not Applicable
Product Supply Requirement	240V
Lamp Type and Power	LED/47W
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

RESULTS

Table 2. Wattage and VA results for Street light neutral white M5

Watts

100%

Voltage	Sample Number				
	1	2	3	4	5
210	48.53	48.68	49.33	47.80	48.63
220	48.44	48.60	49.19	47.68	48.48
230	48.41	48.56	49.16	47.67	48.47
240	48.35	48.47	49.13	47.65	48.45
250	48.31	48.44	49.11	47.64	48.43

VA

Voltage	Sample Number				
	1	2	3	4	5
210	51.00	50.12	51.71	50.20	51.05
220	51.38	50.31	52.03	50.54	51.36
230	51.84	50.55	52.49	51.01	51.83
240	52.34	50.80	53.04	51.57	52.40
250	52.97	51.15	53.74	52.29	53.10

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Table 3. Wattage and VA results for Street light neutral white M5

Watts		75%				
Voltage	Sample Number					
	1	2	3	4	5	
210	41.45	41.84	42.64	40.61	41.26	
220	41.52	41.91	42.81	40.67	41.31	
230	41.54	41.96	42.78	40.72	41.50	
240	41.60	42.04	42.83	40.76	41.68	
250	41.66	42.11	42.88	40.85	41.79	

VA						
Voltage	Sample Number					
	1	2	3	4	5	
210	44.22	43.44	45.35	43.38	44.06	
220	44.83	43.82	45.90	43.93	44.61	
230	45.42	44.21	46.55	44.57	45.39	
240	46.11	44.67	47.26	45.27	46.23	
250	46.90	45.17	48.03	46.10	47.07	

Table 4. Wattage and VA results for Street light neutral white M5

Watts		50%				
Voltage	Sample Number					
	1	2	3	4	5	
210	26.45	27.52	27.17	26.90	26.73	
220	26.56	27.81	27.22	26.93	26.97	
230	26.60	27.93	27.28	26.99	27.22	
240	26.67	28.01	27.33	27.05	27.41	
250	26.72	28.11	27.39	27.10	27.76	

VA						
Voltage	Sample Number					
	1	2	3	4	5	
210	30.55	29.88	31.23	30.89	30.83	
220	31.36	30.59	32.02	31.65	31.80	
230	32.14	31.20	32.80	32.40	32.75	
240	33.04	31.83	33.64	33.24	33.71	
250	34.01	32.48	34.58	34.19	34.90	

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Table 5. Wattage and VA results for Street light neutral white M5

Voltage	Sample Number				
	1	2	3	4	5
210	13.15	13.81	13.34	13.23	13.87
220	13.43	13.86	13.56	13.29	13.94
230	13.61	13.92	13.91	13.35	14.00
240	13.86	13.98	14.19	13.42	14.06
250	14.22	14.05	14.39	13.50	14.13

Voltage	Sample Number				
	1	2	3	4	5
210	19.55	17.89	19.58	19.38	19.98
220	20.68	18.62	20.63	20.30	20.91
230	21.77	19.38	21.84	21.30	21.92
240	22.97	20.20	23.08	22.36	22.99
250	24.96	21.15	24.34	23.56	24.18

PRODUCT DETAILS

Table 6. Test Sample Details

Product Description	Street light neutral white M4
Model No.	LED STREET M4 68W
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	Not Applicable
Product Supply Requirement	240V
Lamp Type and Power	LED/68W
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

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Table 7. Wattage and VA results for Street light neutral white M4

Watts	100%				
Voltage	Sample Number				
	1	2	3	4	5
210	69.21	68.43	68.62	68.69	68.94
220	69.11	68.31	68.45	68.56	68.74
230	69.03	68.20	68.36	68.45	68.64
240	68.96	68.13	68.27	68.39	68.50
250	68.92	68.04	68.17	68.30	68.42

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	70.80	70.21	70.36	70.44	70.60
220	71.01	70.42	70.50	70.63	70.71
230	71.30	70.65	70.74	70.86	70.95
240	71.63	70.99	71.06	71.18	71.21
250	72.06	71.39	71.44	71.57	71.60

Table 8. Wattage and VA results for Street light neutral white M5

Watts	75%				
Voltage	Sample Number				
	1	2	3	4	5
210	58.70	57.64	57.43	56.92	57.17
220	58.72	57.70	57.42	57.04	57.26
230	58.80	57.72	57.35	57.17	57.29
240	58.83	57.79	57.37	57.24	57.40
250	59.01	57.82	57.45	57.27	57.38

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	60.59	59.65	59.39	58.94	59.09
220	60.98	60.09	59.76	59.44	59.57
230	61.48	60.56	60.13	60.02	60.02
240	61.98	61.14	60.65	60.59	60.59
250	62.71	61.73	61.28	61.19	61.14

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Table 9. Wattage and VA results for Street light neutral white M4

Watts	50%				
Voltage	Sample Number				
	1	2	3	4	5
210	36.48	36.80	36.15	35.18	36.16
220	36.58	36.85	36.20	35.26	36.20
230	36.79	36.89	36.25	35.37	36.26
240	36.93	36.95	36.30	35.51	36.39
250	37.08	37.00	36.40	35.63	36.50

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	39.46	39.87	39.21	38.33	39.18
220	40.12	40.49	39.84	38.98	39.79
230	40.96	41.15	40.51	39.73	40.49
240	41.76	41.93	41.29	40.61	41.31
250	42.70	42.83	42.23	41.57	42.20

Table 10. Wattage and VA results for Street light neutral white M4

Watts	25%				
Voltage	Sample Number				
	1	2	3	4	5
210	17.21	16.32	16.78	16.86	16.78
220	17.30	16.55	16.99	16.89	17.06
230	17.34	16.85	17.25	16.95	17.30
240	17.38	17.12	17.62	17.02	17.62
250	17.47	17.36	17.88	17.08	17.91

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	22.50	22.07	22.39	22.39	22.20
220	23.39	23.08	23.38	23.24	23.26
230	24.35	24.31	24.57	24.26	24.35
240	25.39	25.51	25.86	25.30	25.55
250	26.48	26.85	27.19	26.49	26.92

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DEVIATION(S) FROM TEST STANDARD

No reported deviations from test standard.

MEASUREMENT UNCERTAINTY

Equipment number 279 uncertainty of measurement for AC voltage $\pm 0.02\%$

Equipment number 279 uncertainty of measurement for AC current $\pm 0.2\%$

Equipment number 279 uncertainty of measurement for AC power $\pm 0.25\%$

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ILLUSTRATIONS



Figure 1. *Image of tested samples*

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