



T e s t R e p o r t

Report No : L14090
Client: : D W Windsor Ltd
Pindar Road
Hoddesdon
Herts, EN11 0DX
Description : Street light 1 and 2, single module driver and rotary switch control driver
Manufacturer : Not Disclosed
Type/Model : 1LX2-113-15, 2LX2-113-15, 3LX2-113-15
Test Specification : Measurement of power consumption in accordance with the "Unmetered Supplies Operational Information" document – Version 12.0 (29/11/12)
Date Tested : 20/02/14
Conclusion : Refer to body of Report
Date of Issued : 26/02/14
Date of Expiry : 26/02/19

Tested by: S.RICHARDS
Position: Photometric Engineer



Approved by: K.GOVINDEN
Position: Technical Manager



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These test results relate only to the unit(s) tested. This Report and any subsequent report(s) may not be reproduced except in full without the written approval of the Testing Laboratory.



INTRODUCTION

D.W.Windsor has supplied the product identified in table 1 for measurement of power consumption in accordance with the “Unmetered Supplies Operational Information” document – Version 12.0 (29/11/12).

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	Street light 1 and 2, single module driver and rotary switch control driver
Model No.	1LX2-113-15, 2LX2-113-15, 3LX2-113-15
Number of Samples	5 x Streetlight 1 LED Module 700mA driver 5 x Streetlight 2 LED Modules 700mA driver 5 x 350mA driver (alternative component for use with Streetlight 1 LED Module) 5 x 525mA and 590mA driver (alternative component for use with Streetlight 1 LED Module) 5 x Streetlight 3 LED Modules 700mA driver
Condition on Receipt	Good
Nominal Dimensions	N/A
Product Supply Requirement	N/A
Lamp Type and Power	LED
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

RESULTS – 1LX2-113-15 – 700mA 100P with Philips Driver

Table 2. Wattage and VA results for 100%

Watts

Voltage	Sample Number				
	1	2	3	4	5
210	35.16	34.94	35.40	34.66	34.67
220	35.10	34.85	35.35	34.64	34.65
230	35.08	34.84	35.32	34.62	34.63
240	35.06	34.66	35.30	34.62	34.63
250	35.05	34.68	35.30	34.59	34.60

VA

Voltage	Sample Number				
	1	2	3	4	5
210	36.52	36.25	36.73	36.22	36.14
220	36.62	36.32	36.83	36.34	36.26
230	36.77	36.47	36.98	36.48	36.40
240	36.95	36.50	37.16	36.67	36.58
250	37.17	36.72	37.36	36.85	36.77

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RESULTS – 1LX2-113-15 – 700mA 075P with Philips Driver

Table 3. Wattage and VA results for 75%

Watts

Voltage	Sample Number				
	1	2	3	4	5
210	25.99	25.31	25.84	25.45	25.56
220	26.00	25.32	25.85	25.46	25.57
230	26.02	25.34	25.87	25.47	25.58
240	26.04	25.53	25.89	25.48	25.61
250	26.06	25.57	25.92	25.51	25.63

VA

Voltage	Sample Number				
	1	2	3	4	5
210	27.53	26.80	27.35	27.13	27.22
220	27.72	26.99	27.54	27.31	27.39
230	27.94	27.20	27.76	27.54	27.56
240	28.19	27.62	27.99	27.78	27.81
250	28.48	27.90	28.29	28.04	28.07

RESULTS – 1LX2-113-15 – 700mA 050P with Philips Driver

Table 4. Wattage and VA results for 50%

Watts

Voltage	Sample Number				
	1	2	3	4	5
210	18.19	17.89	18.26	17.88	17.96
220	18.22	17.92	18.29	17.91	17.99
230	18.26	18.05	18.33	17.95	18.03
240	18.30	18.05	18.37	17.99	18.07
250	18.34	18.28	18.41	18.03	18.12

VA

Voltage	Sample Number				
	1	2	3	4	5
210	19.98	19.61	20.02	19.77	19.83
220	20.22	19.85	20.26	20.00	20.06
230	20.52	20.23	20.54	20.30	20.35
240	20.81	20.48	20.85	20.60	20.64
250	21.19	21.02	21.16	20.95	21.00

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RESULTS – 2LX2-113-15 – 700 mA 100P with Philips Driver

Table 5. *Wattage and VA results for 100%*

Watts

Voltage	Sample Number				
	1	2	3	4	5
210	67.59	67.80	67.70	67.82	67.45
220	67.49	67.68	67.60	67.69	67.42
230	67.51	67.57	67.45	67.55	67.42
240	67.53	67.55	67.43	67.52	67.46
250	67.40	67.53	67.40	67.51	67.48

VA

Voltage	Sample Number				
	1	2	3	4	5
210	69.23	69.40	69.32	69.48	69.10
220	69.36	69.49	69.45	69.57	69.28
230	69.64	69.63	69.55	69.68	69.53
240	69.94	69.89	69.80	69.93	69.84
250	70.12	70.18	70.09	70.22	70.16

RESULTS – 2LX2-113-15 – 700 mA 075P with Philips Driver

Table 6. *Wattage and VA results for 75%*

Watts

Voltage	Sample Number				
	1	2	3	4	5
210	48.82	48.87	49.02	49.62	49.19
220	48.84	48.90	49.04	49.65	49.22
230	48.87	48.95	49.08	49.70	49.26
240	48.90	49.00	49.13	49.75	49.31
250	48.95	49.06	49.46	49.82	49.37

VA

Voltage	Sample Number				
	1	2	3	4	5
210	50.74	50.75	50.91	51.54	51.10
220	51.04	51.05	51.20	51.84	51.40
230	51.38	51.39	51.55	52.19	51.74
240	51.76	51.78	51.94	52.58	52.13
250	52.19	52.23	52.64	53.02	52.55

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RESULTS – 2LX2-113-15-700mA – 050P with Philips Driver

Table 7. Wattage and VA results for 50%

Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	34.09	33.99	34.04	34.70	34.79
220	34.15	34.04	34.09	34.75	34.84
230	34.24	34.10	34.15	34.81	34.89
240	34.32	34.17	34.21	34.88	34.96
250	34.39	34.25	34.29	34.96	35.04

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	36.42	36.28	36.34	37.02	37.09
220	36.83	36.68	36.73	37.42	37.47
230	37.32	37.13	37.17	37.87	37.90
240	37.85	37.64	37.68	38.36	38.40
250	38.41	38.20	38.24	38.92	38.95

RESULTS – 1LX2-113-15-350mA 100H with Harvard Driver

Table 8. Wattage and VA results for 100%

Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	17.11	16.63	17.33	17.11	16.65
220	17.19	16.69	17.40	17.16	16.73
230	17.29	16.76	17.43	17.22	16.83
240	17.40	16.84	17.49	17.28	16.95
250	17.52	16.93	17.62	17.37	17.08

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	18.39	18.15	18.61	18.57	18.21
220	18.63	18.38	18.82	18.76	18.44
230	18.89	18.64	19.01	18.99	18.72
240	19.18	18.91	19.25	19.23	18.99
250	19.47	19.19	19.56	19.52	19.30

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RESULTS –1LX2-113-15-525mA 100H with Harvard Driver

Table 9. *Wattage and VA results for 100%*

Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	25.91	25.73	25.94	25.61	25.30
220	25.97	25.78	26.00	25.68	25.36
230	26.03	25.84	26.07	25.74	25.43
240	26.09	25.90	26.14	25.80	25.51
250	26.16	25.98	26.22	25.87	25.59

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	27.65	27.64	27.65	27.42	27.59
220	27.88	27.88	27.88	27.67	27.86
230	28.14	28.14	28.13	27.92	28.15
240	28.41	28.41	28.40	28.19	28.45
250	28.71	28.71	28.68	28.48	28.78

RESULTS – 1LX2-113-15-590mA 100H with Harvard Driver

Table 10. *Wattage and VA results for 100%*

Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	29.51	29.12	29.28	28.84	28.67
220	29.55	29.16	29.35	28.90	28.72
230	29.59	29.21	29.42	28.96	28.78
240	29.65	29.26	29.49	29.03	28.84
250	29.70	29.33	29.56	29.10	28.92

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	31.07	31.01	30.80	30.47	30.71
220	31.29	31.23	31.03	30.70	30.96
230	31.52	31.46	31.26	30.95	31.22
240	31.76	31.72	31.51	31.21	31.51
250	32.03	32.00	31.78	31.48	31.81

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RESULTS – 3LX2-113-15-700mA 100P with Philips Driver

Table 11 *Wattage and VA results for 100%*

Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	101.61	99.91	100.14	101.51	100.46
220	101.56	99.91	100.10	101.42	100.24
230	101.34	99.78	99.93	101.37	100.24
240	101.31	99.78	99.91	101.40	100.26
250	101.34	99.82	99.95	101.47	100.30

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	103.87	102.10	102.47	103.77	102.78
220	104.17	102.44	102.77	104.03	102.91
230	104.34	102.68	102.97	104.36	103.29
240	104.71	103.08	103.34	104.81	103.72
250	105.20	103.58	103.81	105.34	104.22

RESULTS – 3LX2-113-15-700mA 075P with Philips Driver

Table 12. *Wattage and VA results for 75%*

Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	71.14	70.93	71.54	72.05	71.81
220	71.22	70.97	71.61	72.05	71.83
230	71.31	71.10	71.71	72.10	71.93
240	71.43	71.21	71.82	72.15	72.02
250	71.56	71.31	71.94	72.26	72.12

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	73.77	73.44	74.13	74.69	74.46
220	74.24	73.87	74.55	75.07	74.85
230	74.75	74.40	75.06	75.52	75.33
240	75.33	74.96	75.60	76.01	75.85
250	75.94	75.54	76.19	76.60	76.42

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RESULTS – 3LX2-113-15-700mA 50P with Philips Driver

Table 13. *Wattage and VA results for 50%*

Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	50.73	49.16	50.19	49.77	50.76
220	50.85	49.28	50.32	49.88	50.86
230	50.99	49.43	50.46	50.01	50.98
240	51.15	49.59	50.61	50.16	51.11
250	51.32	49.76	50.78	50.33	51.27

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	53.73	52.11	53.11	52.75	53.69
220	54.26	52.63	53.65	53.26	54.21
230	54.87	53.24	54.25	53.86	54.78
240	55.54	53.90	54.90	54.51	55.43
250	56.25	54.60	55.60	55.21	56.12

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DEVIATION(S) FROM TEST STANDARD

No reported deviations from test standard.

MEASUREMENT UNCERTAINTY

Equipment number 280 uncertainty of measurement for AC voltage +/-0.01%

Equipment number 280 uncertainty of measurement for AC current +/-0.03%

Equipment number 280 uncertainty of measurement for AC power +/-0.08%

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ILLUSTRATION



Figure 1. *Image of tested samples*

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