



T e s t R e p o r t

Report No : L15101B
Client: : Holophane Europe Ltd
Bond Ave
Bletchley
Milton Keynes
MK1 1JG
Description : V-Max Street lighting luminaire with 118 LEDs driven by
2x150W Philips Xitanium Drivers
Manufacturer : Holophane Europe Ltd
Type/Model : VMX.L264.V7
Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 14.0 (17/12/2014)
Date Testing Started : 15/05/15
Conclusion : Refer to body of Report
Date of Issue : 26/05/15
Date of Expiry : 25/05/20

Checked by: J.ADAMS
Position: Laboratory Supervisor

Approved by: T.MALIK
Position: Quality Accreditation &
Certification Officer



INTRODUCTION

The products identified in table 1 were tested at the premises of Holophane Europe Ltd 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	V-Max Street lighting luminaire with 118 LEDs driven by 2x150W Philips Xitanium Drivers
Model No.	VMX.L264.V7
Number of Samples	5
Nominal Dimensions	L - 940mm, W - 340mm, H - 80mm
Product Supply Requirement	230V AC 50Hz
Lamp Type and Power	LED - 243W
Sampling Method: Test samples randomly selected and supplied 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 V-Max Street lighting luminaire with 118 LEDs driven by 2x150W Philips Xitanium Drivers

Operating Mode	700mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	242.09	243.88	242.54	246.06	247.54
220	242.20	243.94	242.63	246.04	247.57
230	242.29	244.00	242.71	246.09	247.60
240	242.50	244.15	242.90	246.25	247.78
250	243.38	245.01	243.87	247.09	248.94
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	247.55	249.32	247.89	251.65	253.16
220	248.68	250.31	248.92	252.44	253.98
230	249.55	251.24	249.89	253.57	255.07
240	250.80	252.43	251.14	254.71	256.22
250	252.77	254.38	253.22	256.73	248.84
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	0.97	0.97	0.97	0.97	0.97
250	0.96	0.96	0.96	0.96	1.00
Ambient Temperature During Test (°C)	24.3				
PF Leading/Lagging	Leading				

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RESULTS

Table 3. Wattage and VA results for V-Max Street lighting luminaire with 118 LEDs driven by 2x150W Philips Xitanium Drivers

Operating Mode	560mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	191.80	193.25	192.27	194.34	195.88
220	192.35	193.67	192.79	194.87	196.39
230	192.86	194.11	193.32	195.37	196.90
240	193.22	194.41	193.67	195.63	197.17
250	193.58	194.73	194.03	195.91	197.46
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	197.84	199.29	198.22	200.52	202.09
220	199.36	200.67	199.72	202.01	203.54
230	200.83	202.09	201.23	203.56	205.08
240	202.26	203.47	202.68	204.94	206.45
250	203.78	204.95	204.19	206.45	207.95
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.97	0.97	0.97	0.97	0.97
220	0.96	0.97	0.97	0.96	0.96
230	0.96	0.96	0.96	0.96	0.96
240	0.96	0.96	0.96	0.95	0.96
250	0.95	0.95	0.95	0.95	0.95
Ambient Temperature During Test (°C)	23.4				
PF Leading/Lagging	Leading				

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RESULTS

Table 4. Wattage and VA results for V-Max Street lighting luminaire with 118 LEDs driven by 2x150W Philips Xitanium Drivers

Operating Mode	420mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	144.64	145.52	145.04	145.64	147.55
220	144.85	145.69	145.25	145.82	147.73
230	145.12	145.92	145.52	146.08	147.98
240	145.41	146.16	145.80	146.36	148.25
250	145.83	146.53	146.22	146.73	148.61
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	151.48	152.37	151.81	152.67	154.56
220	152.67	153.54	153.02	153.77	156.01
230	154.05	154.87	154.42	155.26	157.12
240	155.30	156.07	155.69	156.57	158.41
250	157.21	157.96	157.59	158.48	160.26
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.95	0.96	0.96	0.95	0.95
220	0.95	0.95	0.95	0.95	0.95
230	0.94	0.94	0.94	0.94	0.94
240	0.94	0.94	0.94	0.93	0.94
250	0.93	0.93	0.93	0.93	0.93
Ambient Temperature During Test (°C)	24.1				
PF Leading/Lagging	Leading				

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RESULTS

Table 5. Wattage and VA results for V-Max Street lighting luminaire with 118 LEDs driven by 2x150W Philips Xitanium Driver

Operating Mode	280mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	98.04	98.62	98.42	97.49	100.00
220	98.41	98.93	98.80	97.89	100.38
230	98.86	99.31	99.25	98.18	100.65
240	99.24	99.64	99.62	98.57	101.02
250	99.72	100.80	100.11	99.62	101.51
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	105.99	106.60	106.36	105.76	108.19
220	107.54	108.11	107.93	107.38	109.75
230	109.34	109.86	109.73	108.89	111.22
240	110.87	111.36	111.23	110.54	112.82
250	112.90	113.35	113.52	112.66	114.89
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.93	0.93	0.93	0.92	0.92
220	0.92	0.92	0.92	0.91	0.91
230	0.90	0.90	0.90	0.90	0.90
240	0.90	0.89	0.90	0.89	0.90
250	0.88	0.89	0.88	0.88	0.88
Ambient Temperature During Test (°C)	22.5				
PF Leading/Lagging	Leading				

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RESULTS

Table 6. Wattage and VA results for V-Max Street lighting luminaire with 118 LEDs driven by 2x150W Philips Xitanium Drivers

Operating Mode	140mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	52.17	52.58	52.89	50.75	53.24
220	52.63	52.98	53.35	51.12	53.62
230	53.01	53.33	53.57	51.40	54.02
240	53.26	53.53	53.74	51.48	54.19
250	53.47	53.69	53.94	51.68	54.35
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	62.22	62.71	62.90	61.29	63.50
220	64.24	64.69	64.92	63.21	65.35
230	65.87	66.31	67.46	64.99	67.19
240	68.34	68.53	71.58	68.96	69.45
250	72.67	72.93	75.13	72.51	73.91
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.84	0.84	0.84	0.83	0.84
220	0.82	0.82	0.82	0.81	0.82
230	0.80	0.80	0.79	0.79	0.80
240	0.78	0.78	0.75	0.75	0.78
250	0.74	0.74	0.72	0.71	0.74
Ambient Temperature During Test (°C)	24.3				
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;

Power $\pm 0.879\%$

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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ILLUSTRATIONS

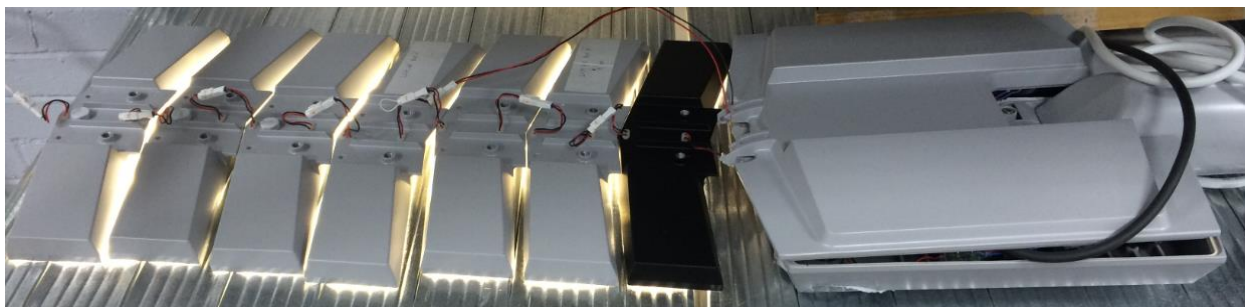


Figure 1. *Product Image*

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