



T e s t R e p o r t

Report No : L15101A
Client: : Holophane Europe Ltd
Bond Ave
Bletchley
Milton Keynes
MK1 1JG
Description : V-Max Street lighting luminaire with 80 LEDs driven by
1x40W and 1x150W Philips Xitanium Drivers
Manufacturer : Holophane Europe Ltd
Type/Model : VMX.L184.V5
Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 14.0 (17/12/2014)
Date Testing Started : 07/04/15
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 80 LEDs driven by 1x40W and 1x150W Philips Xitanium Drivers
Model No.	VMX.L184.V5
Number of Samples	5
Nominal Dimensions	L - 840mm, W - 340mm, H - 80mm
Product Supply Requirement	230V AC 50Hz
Lamp Type and Power	LED - 175W
Sampling Method: Test samples randomly selected and supplied by client.	

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

Continued on following page



RESULTS

Table 2. Wattage and VA results for V-Max Street lighting luminaire with 80 LEDs driven by 1x40W and 1x150W Philips Xitanium Drivers

Operating Mode	700mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	173.71	173.14	173.49	174.67	173.95
220	173.82	173.23	173.59	174.76	174.06
230	174.21	173.56	173.89	175.13	174.40
240	175.05	174.29	174.53	175.99	175.19
250	176.99	175.92	176.03	178.06	177.12
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	177.29	176.37	176.94	178.15	177.48
220	177.92	177.27	177.53	178.72	178.07
230	179.01	178.31	178.51	179.75	179.06
240	180.63	179.84	179.97	181.41	180.65
250	183.33	182.30	182.31	184.21	183.30
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.98	0.98	0.98	0.98	0.98
220	0.98	0.98	0.98	0.98	0.98
230	0.97	0.97	0.97	0.97	0.97
240	0.97	0.97	0.97	0.97	0.97
250	0.97	0.97	0.97	0.97	0.97
Ambient Temperature During Test (°C)	25.0				
PF Leading/Lagging	Leading				

Continued on following page



RESULTS

Table 3. Wattage and VA results for V-Max Street lighting luminaire with 80 LEDs driven by 1x40W and 1x150W Philips Xitanium Drivers

Operating Mode	560mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	138.15	137.59	137.91	138.58	138.16
220	138.35	137.74	138.09	138.74	138.33
230	138.74	138.06	138.45	139.01	138.57
240	138.95	138.21	138.63	139.17	138.73
250	139.84	139.14	139.43	140.02	139.62
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	142.11	141.50	141.75	142.46	142.07
220	142.93	142.27	142.53	143.23	142.84
230	143.97	143.24	143.53	144.11	143.69
240	144.95	144.19	144.46	144.97	144.55
250	146.60	145.84	146.03	146.68	146.28
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.97	0.97	0.97	0.97	0.97
220	0.97	0.97	0.97	0.97	0.97
230	0.96	0.96	0.96	0.96	0.96
240	0.96	0.96	0.96	0.96	0.96
250	0.95	0.95	0.95	0.95	0.95
Ambient Temperature During Test (°C)	25.2				
PF Leading/Lagging	Leading				

Continued on following page



RESULTS

Table 4. Wattage and VA results for V-Max Street lighting luminaire with 80 LEDs driven by 1x40W and 1x150W Philips Xitanium Drivers

Operating Mode	420mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	104.75	104.14	104.36	104.65	104.39
220	104.81	104.14	104.39	104.67	104.40
230	105.07	104.36	104.66	104.92	104.69
240	105.30	104.55	104.88	105.07	104.86
250	105.52	104.72	105.11	105.26	105.07
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	109.21	108.55	108.70	108.98	108.78
220	109.83	109.13	109.29	109.60	109.33
230	110.98	110.25	110.44	110.82	110.58
240	111.93	111.16	111.38	111.59	111.36
250	113.01	112.19	112.46	112.71	112.48
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.96	0.96	0.96	0.96	0.96
220	0.95	0.95	0.96	0.96	0.95
230	0.95	0.95	0.95	0.95	0.95
240	0.94	0.94	0.94	0.94	0.94
250	0.93	0.93	0.93	0.93	0.93
Ambient Temperature During Test (°C)	25.4				
PF Leading/Lagging	Leading				

Continued on following page



RESULTS

Table 5. Wattage and VA results for V-Max Street lighting luminaire with 80 LEDs driven by 1x40W and 1x150W Philips Xitanium Drivers

Operating Mode	280mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	71.42	70.75	70.99	70.96	70.88
220	71.75	71.02	71.30	71.21	71.13
230	71.96	71.19	71.57	71.37	71.30
240	72.19	71.39	71.74	71.58	71.52
250	72.52	71.67	72.07	71.86	71.81
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	76.67	75.99	76.15	76.18	76.06
220	77.85	77.12	77.31	77.29	77.17
230	78.91	78.14	78.36	78.13	78.01
240	79.94	79.15	79.39	79.31	79.19
250	81.24	80.42	80.67	80.63	80.47
Power Factor					
Voltage	Sample Number				
	1	1	1	1	1
210	0.93	0.93	0.93	0.93	0.93
220	0.92	0.92	0.92	0.92	0.92
230	0.91	0.91	0.91	0.91	0.91
240	0.90	0.90	0.90	0.90	0.90
250	0.89	0.89	0.89	0.89	0.89
Ambient Temperature During Test (°C)	25.4				
PF Leading/Lagging	Leading				

Continued on following page



RESULTS

Table 6. Wattage and VA results for V-Max Street lighting luminaire with 80 LEDs driven by 1x40W and 1x150W Philips Xitanium Drivers

Operating Mode	140mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	39.16	38.41	38.73	38.36	38.54
220	39.41	38.63	38.98	38.58	38.77
230	39.72	38.91	39.29	38.85	39.04
240	40.04	39.17	39.59	39.13	39.31
250	40.80	39.80	40.30	39.80	40.05
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	45.95	45.24	45.47	45.21	45.28
220	47.13	46.41	46.66	46.45	46.49
230	48.38	47.67	47.94	47.65	47.67
240	50.22	49.51	49.77	49.46	49.45
250	52.24	51.42	51.84	51.39	51.39
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.85	0.85	0.85	0.85	0.85
220	0.84	0.83	0.84	0.83	0.83
230	0.82	0.82	0.82	0.82	0.82
240	0.80	0.79	0.80	0.79	0.79
250	0.78	0.77	0.78	0.77	0.78
Ambient Temperature During Test (°C)	25.2				
PF Leading/Lagging	Leading				

Continued on following page

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.

Continued on following page

ILLUSTRATIONS



Figure 1. *Product Image*

End