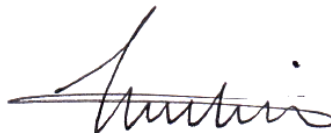


T e s t R e p o r t

Report No : L15428
Client: : Holophane Europe Ltd
Bond Ave
Bletchley
Milton Keynes
MK1 1JG
Description : V-Max Streetlighting luminaire
Manufacturer : Holophane Europe Ltd
Type/Model : VMX.V2- 32LED LUXEON MZ 150W Philips F Can metal-
380 mA
Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 14.0 (17/12/2014)
Date Testing Started : 07/10/2015
Conclusion : Refer to body of report
Date of Issue : 23/11/2015
Date of Expiry : 22/11/2020

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



Approved by: K.GOVINDEN
Position: Technical &
Operations Manager



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 2 LED modules (32 LEDs) and 2x150W Philips Drivers
Model No.	VMX.V2- 32LED LUXEON MZ 150W Philips F Can metal- 380 mA
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	L - 540mm, W - 450mm, H - 80mm
Product Supply Requirement	240V AC 50Hz
Lamp Type and Power	LED / Variable power
Sampling Method: Test samples selected and supplied by client, no sampling method specified 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 2 LED modules (32 LEDs) and 2x150W Philips drivers

Operating Mode	380mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	148.02	148.51	148.63	152.57	151.28
220	147.42	147.67	147.84	151.74	150.47
230	147.23	147.30	147.50	151.43	150.20
240	147.10	146.97	147.22	151.16	149.97
250	146.36	145.74	146.08	150.15	149.11
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	154.59	155.09	155.14	159.29	158.03
220	155.05	155.32	155.41	159.48	158.26
230	155.88	155.98	156.10	160.31	159.14
240	157.00	156.92	157.06	161.20	160.06
250	157.58	157.02	157.25	161.50	160.51
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	0.95	0.95	0.95
230	0.94	0.94	0.94	0.94	0.94
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)			24.2		
PF Leading/Lagging			Leading		

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Table 3. Wattage and VA results for V-Max Street lighting Luminaire with 2 LED modules (32 LEDs) and 2×150W Philips drivers

Operating Mode	304mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	118.65	118.26	118.46	121.93	120.86
220	119.02	118.61	118.85	122.30	121.21
230	119.43	118.99	119.27	122.71	121.61
240	119.86	119.42	119.75	123.18	122.05
250	120.35	119.85	120.22	123.60	122.46
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	125.82	125.45	125.58	129.26	128.28
220	127.33	126.96	127.10	130.75	129.71
230	128.94	128.55	128.73	132.30	131.25
240	130.49	130.08	130.30	134.06	133.00
250	132.17	131.75	131.99	135.70	134.64
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.94	0.94	0.94	0.94	0.94
220	0.93	0.93	0.94	0.94	0.93
230	0.93	0.93	0.93	0.93	0.93
240	0.92	0.92	0.92	0.92	0.92
250	0.91	0.91	0.91	0.91	0.91
Ambient Temperature During Test (°C)			24.3		
PF Leading/Lagging			Leading		

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Table 4. Wattage and VA results for V-Max Street lighting Luminaire with 2 LED modules (32 LEDs) and 2×150W Philips drivers

Operating Mode	228mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	89.56	89.33	89.55	92.23	91.10
220	90.23	90.03	90.30	92.89	91.72
230	90.64	90.42	90.73	93.27	92.09
240	91.14	90.88	91.24	93.74	92.55
250	91.66	91.36	91.77	94.29	93.10
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	97.74	97.54	97.67	100.63	99.58
220	99.69	99.53	99.71	102.41	101.33
230	101.13	100.95	101.15	103.91	102.84
240	102.93	102.74	102.96	105.75	104.69
250	104.77	104.55	104.81	107.89	106.92
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.92	0.92	0.92	0.92	0.91
220	0.91	0.90	0.91	0.91	0.91
230	0.90	0.90	0.90	0.90	0.90
240	0.89	0.88	0.89	0.89	0.88
250	0.87	0.87	0.88	0.87	0.87
Ambient Temperature During Test (°C)			24.1		
PF Leading/Lagging			Leading		

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Table 5. Wattage and VA results for V-Max Street lighting Luminaire with 2 LED modules (32 LEDs) and 2×150W Philips drivers

Operating Mode	152mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	66.94	66.77	67.02	68.95	67.86
220	67.52	67.36	67.66	69.54	68.42
230	67.70	67.53	67.86	69.73	68.55
240	67.97	67.76	68.15	69.99	68.80
250	68.27	68.02	68.45	70.26	69.07
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	76.39	76.27	76.42	78.61	77.68
220	78.38	78.29	78.47	80.57	79.60
230	81.68	81.47	81.79	83.53	83.20
240	85.80	85.64	85.92	88.00	87.44
250	89.31	89.17	89.45	91.89	91.34
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.88	0.88	0.88	0.88	0.87
220	0.86	0.86	0.86	0.86	0.86
230	0.83	0.83	0.83	0.83	0.82
240	0.79	0.79	0.79	0.80	0.79
250	0.76	0.76	0.77	0.76	0.76
Ambient Temperature During Test (°C)			24.2		
PF Leading/Lagging			Leading		

Continued on following page

Table 6. Wattage and VA results for V-Max Street lighting Luminaire with 2 LED modules (32 LEDs) and 2×150W Philips drivers

Operating Mode	76mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	44.31	44.21	44.49	45.66	44.62
220	44.81	44.69	45.02	46.20	45.12
230	44.76	44.64	45.00	46.19	45.00
240	44.81	44.65	45.06	46.24	45.06
250	44.88	44.68	45.14	46.23	45.04
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	55.04	55.00	55.17	56.60	55.78
220	57.08	57.05	57.23	58.73	57.88
230	62.23	61.99	62.43	63.16	63.57
240	68.68	68.55	68.87	70.26	70.20
250	73.84	73.78	74.08	75.89	75.76
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.81	0.80	0.81	0.81	0.80
220	0.79	0.78	0.79	0.79	0.78
230	0.72	0.72	0.72	0.73	0.71
240	0.65	0.65	0.65	0.66	0.64
250	0.61	0.61	0.61	0.61	0.59
Ambient Temperature During Test (°C)			24.0		
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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ILLUSTRATION



Figure 1. *Product image*



Figure 2. *Internal configuration*

End

This page is to be read in conjunction with the first page of this report