



## T e s t R e p o r t

**Report No** : L15101C  
**Client:** : Holophane Europe Ltd  
Bond Ave  
Bletchley  
Milton Keynes  
MK1 1JG  
**Description** : V-Max Street lighting luminaire with 128 LEDs driven by  
2x150W Philips Xitanium Drivers  
**Manufacturer** : Holophane Europe Ltd  
**Type/Model** : VMX.L294.V8  
**Test Specification** : Measurement of power consumption in accordance with the  
'Unmetered Supplies Operational Information Document' –  
Version 14.0 (17/12/2014)  
**Date Testing Started** : 13/05/15  
**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 128 LEDs driven by 2x150W Philips Xitanium Drivers
Model No.	VMX.L294.V8
Number of Samples	5
Nominal Dimensions	L - 1040mm, W - 340mm, H - 80mm
Product Supply Requirement	230V AC 50Hz
Lamp Type and Power	LED - 275W
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 128 LEDs driven by 2x150W Philips Xitanium Drivers**

Operating Mode	700mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	274.86	276.95	275.33	279.81	281.36
220	274.78	276.83	275.18	279.68	281.14
230	274.74	276.73	275.09	279.65	281.06
240	274.79	276.73	275.09	279.64	281.01
250	274.90	276.79	275.16	279.74	281.03
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	280.10	282.20	280.46	285.03	286.58
220	280.79	282.83	281.08	285.74	287.20
230	281.79	283.76	282.03	286.79	288.19
240	282.80	284.74	283.01	287.93	289.27
250	284.08	285.96	284.25	289.16	290.41
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	0.98	0.98	0.98	0.98
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)	24.0				
PF Leading/Lagging	Leading				

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## RESULTS

**Table 3. Wattage and VA results for V-Max Street lighting luminaire with 128 LEDs driven by 2x150W Philips Xitanium Drivers**

Operating Mode	560mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	218.22	219.66	218.52	221.43	223.01
220	218.33	219.71	218.60	221.47	223.05
230	218.48	219.82	218.72	221.58	223.15
240	218.71	220.06	218.97	221.75	223.33
250	218.82	220.14	219.05	221.84	223.39
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	223.93	225.37	224.10	227.36	228.93
220	225.03	226.40	225.17	228.34	229.90
230	226.14	227.47	226.26	229.42	230.96
240	227.46	228.81	227.61	230.66	232.19
250	228.82	230.14	228.94	232.10	233.58
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.97	0.97	0.98	0.97	0.97
220	0.97	0.97	0.97	0.97	0.97
230	0.97	0.97	0.97	0.97	0.97
240	0.96	0.96	0.96	0.96	0.96
250	0.96	0.96	0.96	0.96	0.96
Ambient Temperature During Test (°C)	24.3				
PF Leading/Lagging	Leading				

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## RESULTS

**Table 4. Wattage and VA results for V-Max Street lighting luminaire with 128 LEDs driven by 2x150W Philips Xitanium Drivers**

Operating Mode	420mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	163.40	164.35	163.73	164.98	166.87
220	163.57	164.48	163.90	165.11	166.99
230	163.83	164.69	164.15	165.39	167.26
240	164.09	164.91	164.40	165.56	167.44
250	164.44	165.20	164.73	165.55	167.72
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	169.89	170.84	170.08	171.61	173.47
220	171.07	171.99	171.28	172.75	174.58
230	172.31	173.19	172.53	174.23	176.05
240	173.78	174.61	173.98	175.48	177.29
250	175.40	176.19	175.58	177.05	178.81
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.96	0.96	0.96	0.96	0.96
220	0.96	0.96	0.96	0.96	0.96
230	0.95	0.95	0.95	0.95	0.95
240	0.94	0.94	0.94	0.94	0.94
250	0.94	0.94	0.94	0.94	0.94
Ambient Temperature During Test (°C)	25.4				
PF Leading/Lagging	Leading				

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## RESULTS

**Table 5. Wattage and VA results for V-Max Street lighting luminaire with 128 LEDs driven by 2x150W Philips Xitanium Drivers**

Operating Mode	280mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	110.56	111.16	111.03	110.43	112.82
220	110.87	111.42	111.33	110.73	113.11
230	111.22	111.73	111.68	111.02	113.39
240	111.63	112.09	112.09	111.40	113.78
250	112.03	112.46	112.49	111.72	114.10
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	118.19	118.82	118.58	118.21	120.52
220	119.67	120.27	120.08	119.82	122.07
230	121.12	121.68	121.53	121.20	123.42
240	122.82	123.35	123.23	122.85	125.05
250	124.63	125.18	125.06	124.62	126.79
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.94	0.94	0.94	0.93	0.94
220	0.93	0.93	0.93	0.92	0.93
230	0.92	0.92	0.92	0.92	0.92
240	0.91	0.91	0.91	0.91	0.91
250	0.90	0.90	0.90	0.90	0.90
Ambient Temperature During Test (°C)	25.1				
PF Leading/Lagging	Leading				

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## RESULTS

**Table 6. Wattage and VA results for V-Max Street lighting luminaire with 128 LEDs driven by 2x150W Philips Xitanium Drivers**

Operating Mode	140mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	58.11	58.54	58.86	57.11	59.25
220	58.64	59.01	59.40	57.58	59.73
230	59.18	59.50	59.96	58.13	60.31
240	59.72	60.00	60.50	58.63	60.84
250	60.30	60.52	60.83	59.14	61.35
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	67.80	68.31	68.50	67.13	69.04
220	70.06	70.53	70.74	69.36	71.21
230	71.71	72.15	72.47	71.37	73.19
240	73.84	74.25	74.55	73.57	75.37
250	76.32	76.71	78.59	75.84	77.66
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.86	0.86	0.86	0.85	0.86
220	0.84	0.84	0.84	0.83	0.84
230	0.83	0.82	0.83	0.81	0.82
240	0.81	0.81	0.81	0.80	0.81
250	0.79	0.79	0.77	0.78	0.79
Ambient Temperature During Test (°C)	23.4				
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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**End**