Test Report

Report No	:	L16094B
Client:	:	Holophane Europe Ltd Bond Ave Bletchley Milton Keynes MK1 1JG
Description	:	V-Max Streetlighting Fitting
Manufacturer	:	Holophane Europe Ltd
Type/Model	:	VMX 128LED V8 LTX 350-525mA 929000962406 & 929000962206
Test Specification	:	Measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 15.0 (15/06/2016)
Date Testing Started	:	01/02/2016
Conclusion	:	Refer to body of report
Date of Issue	:	24/10/2016
Date of Expiry	:	23/10/2021

Checked by: **J. ADAMS**
Position: Accreditation & Certification Officer

Approved by: **T. MALIK**
Position: Operations & Quality Manager

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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 15.0 (15/06/2016).

PRODUCT DETAILS

Table 1. *Test Sample Details*

Product Description	VMX.V8.128LTX.350-525mA - V-Max Streetlighting Fitting with 8 LED modules totaling 128LED (525mA) with 1x75W and 1x150W Drivers
Model No.	VMX 128LED V8 LTX 350-525Ma 929000962406 & 929000962206
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	1140mm x 340mm x 80mm
Product Supply Requirement	230/204V 50Hz
Lamp Type and Power	LED 217W
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*** **VMX 128LED V8 LTX 350-525mA 929000962406 & 929000962206**

Operating Mode	VMX.V8.128LTX.350-525mA - V-Max Streetlighting Fitting with 8 LED modules totaling 128LED (525mA) with 1x75W and 1x150W Drivers - running at - 525mA				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	203.14	203	204.23	209.9	203.81
220	202.85	202.69	204.08	209.59	203.64
230	202.67	202.48	203.78	209.36	203.51
240	202.47	202.24	203.65	209.13	203.4
250	202.32	202.07	203.56	208.95	203.37
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	205.29	205.18	206.4	212.04	205.96
220	205.34	205.21	206.58	212.07	206.11
230	205.49	205.33	206.61	212.16	206.31
240	205.71	205.52	206.91	212.33	206.61
250	206	205.78	207.26	212.57	206.99
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.9895	0.9894	0.9895	0.9899	0.9896
220	0.9879	0.9877	0.9879	0.9883	0.9880
230	0.9863	0.9861	0.9863	0.9868	0.9864
240	0.9842	0.9840	0.9842	0.9849	0.9845
250	0.9821	0.9820	0.9821	0.9830	0.9825
Ambient Temperature During Test (°C)	25.9				
PF Leading/Lagging	Leading				

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Table 3. ***Wattage and VA results for*** **VMX 128LED V8 LTX 350-525mA 929000962406 & 929000962206**

Operating Mode	VMX.V8.128LTX.350-525mA - V-Max Streetlighting Fitting with 8 LED modules totaling 128LED (525mA) with 1x75W and 1x150W Drivers - running at - 420mA				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	161.77	161.94	162.89	167.3	162.67
220	161.66	161.77	162.8	167.17	162.61
230	161.6	161.68	162.78	167.1	162.65
240	161.64	161.68	162.72	167.04	162.67
250	161.61	161.6	162.73	166.98	162.74
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	164.21	164.39	165.34	169.72	165.09
220	164.61	164.77	165.76	170.05	165.5
230	164.93	165.04	166.13	170.37	165.92
240	165.29	165.35	166.39	170.68	166.3
250	165.77	165.8	166.93	171.07	166.84
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.9851	0.9851	0.9852	0.9857	0.9853
220	0.9821	0.9818	0.9821	0.9831	0.9825
230	0.9798	0.9796	0.9798	0.9808	0.9803
240	0.9779	0.9778	0.9779	0.9787	0.9782
250	0.9749	0.9747	0.9748	0.9761	0.9754
Ambient Temperature During Test (°C)	25.9				
PF Leading/Lagging	Leading				

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Table 4. ***Wattage and VA results for*** **VMX 128LED V8 LTX 350-525mA 929000962406 & 929000962206**

Operating Mode	VMX.V8.128LTX.350-525mA - V-Max Streetlighting Fitting with 8 LED modules totaling 128LED (525mA) with 1x75W and 1x150W Drivers - running at - 315mA				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	121.34	121.58	122.41	125.66	122.01
220	121.44	121.64	122.52	125.73	122.16
230	121.51	121.65	122.58	125.77	122.34
240	121.6	121.77	122.69	125.75	122.5
250	121.61	121.73	122.68	125.74	122.57
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	124.16	124.41	125.24	128.49	124.85
220	124.81	125.01	125.9	129.04	125.49
230	125.41	125.57	126.5	129.6	126.19
240	126.06	126.25	127.16	130.18	126.93
250	126.7	126.85	127.82	130.68	127.51
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.9773	0.9773	0.9774	0.9780	0.9773
220	0.9730	0.9730	0.9732	0.9743	0.9735
230	0.9689	0.9688	0.9690	0.9704	0.9695
240	0.9646	0.9645	0.9648	0.9660	0.9651
250	0.9598	0.9596	0.9598	0.9622	0.9613
Ambient Temperature During Test (°C)	25.9				
PF Leading/Lagging	Leading				

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Table 5. ***Wattage and VA results for*** **VMX 128LED V8 LTX 350-525mA 929000962406 & 929000962206**

Operating Mode	VMX.V8.128LTX.350-525mA - V-Max Streetlighting Fitting with 8 LED modules totaling 128LED (525mA) with 1x75W and 1x150W Drivers - running at - 210mA				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	82.048	82.349	83.113	85.021	82.498
220	82.171	82.438	83.268	85.127	82.693
230	82.284	82.516	83.277	85.21	82.872
240	82.435	82.618	83.427	85.271	83.035
250	82.533	82.673	83.527	85.353	83.228
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	85.674	85.984	86.745	88.673	86.178
220	86.471	86.751	87.583	89.416	87.011
230	87.102	87.346	88.121	90.051	87.746
240	88.02	88.223	89.044	90.775	88.568
250	88.799	88.966	89.841	91.622	89.528
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.9577	0.9577	0.9581	0.9588	0.9573
220	0.9503	0.9503	0.9507	0.9520	0.9504
230	0.9447	0.9447	0.9450	0.9462	0.9445
240	0.9365	0.9365	0.9369	0.9394	0.9375
250	0.9294	0.9293	0.9297	0.9316	0.9296
Ambient Temperature During Test (°C)	25.8				
PF Leading/Lagging	Leading				

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Table 5. ***Wattage and VA results for*** **VMX 128LED V8 LTX 350-525mA 929000962406 & 929000962206**

Operating Mode	VMX.V8.128LTX.350-525mA - V-Max Streetlighting Fitting with 8 LED modules totaling 128LED (525mA) with 1x75W and 1x150W Drivers - running at - 105mA				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	43.848	44.013	44.708	45.597	44.09
220	44.07	44.236	44.961	45.795	44.372
230	44.253	44.349	45.054	45.93	44.596
240	44.303	44.358	45.144	45.923	44.695
250	44.337	44.347	45.179	45.913	44.818
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	49.368	49.565	50.246	51.102	49.654
220	50.405	50.621	51.336	52.094	50.733
230	51.713	51.849	52.55	53.225	51.945
240	52.667	52.773	53.587	54.27	53.022
250	53.904	53.995	54.774	55.541	54.378
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.8882	0.8880	0.8898	0.8923	0.8879
220	0.8743	0.8739	0.8758	0.8791	0.8746
230	0.8557	0.8553	0.8574	0.8629	0.8585
240	0.8412	0.8405	0.8424	0.8462	0.8430
250	0.8225	0.8213	0.8248	0.8267	0.8242
Ambient Temperature During Test (°C)	25.8				
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 ±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

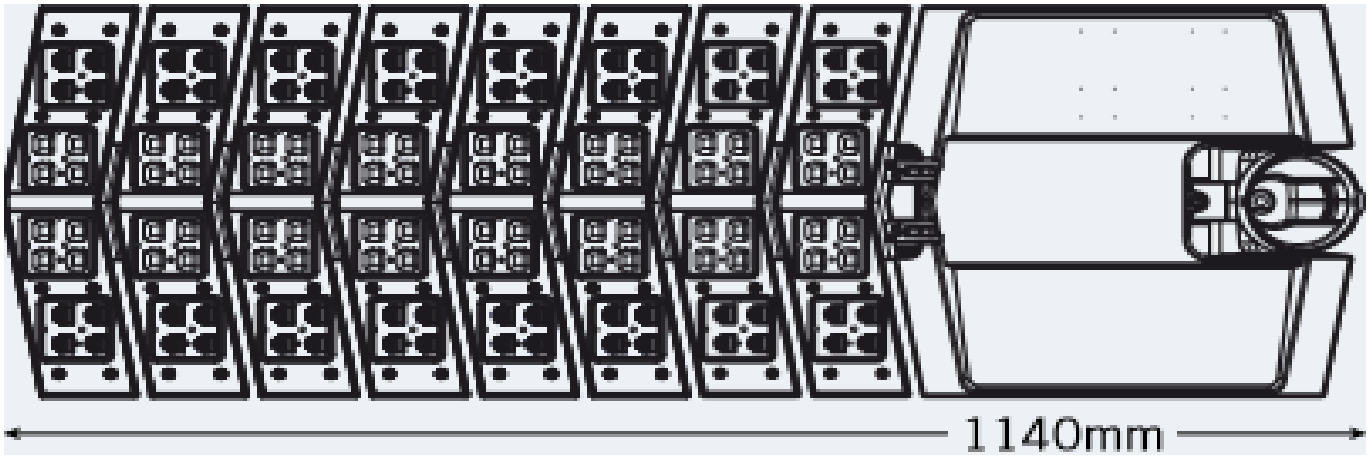

Figure 1. ***Product image***

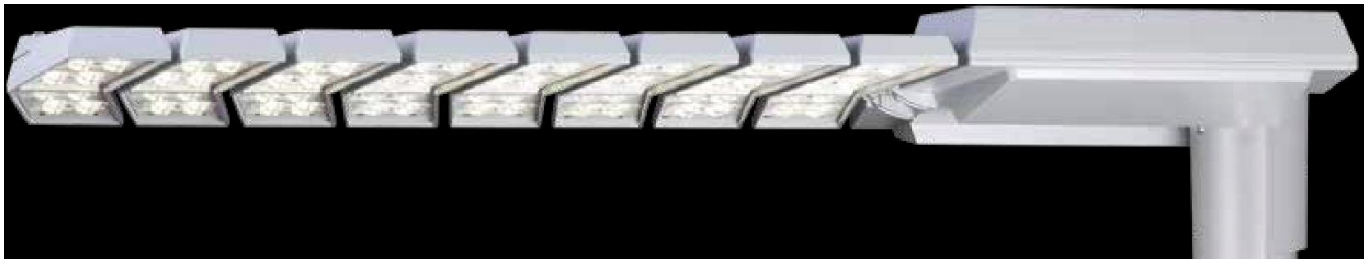

Figure 2. ***Product image***

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