


T e s t R e p o r t

Report No : Cer1559-UMS18007
Client: : Holophane Europe Ltd
Bond Ave
Bletchley
Milton Keynes
MK1 1JG
Description : S-Line Street Lighting Product
Manufacturer : Holophane Europe Ltd
Type/Model : SLI.2 - LA044, LA054, LA064, LA074, LA084
Client Reference : 18_249
Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 17.0 (15/03/2017)
Date Testing Started : 13/04/2018
Conclusion : Refer to body of report
Date of Issue : 13/06/2018
Date of Expiry : 12/06/2023

Checked by: A. BOROVY
Position: Technical Lead –
Product Safety



Approved by: T. MALIK
Position: Operation 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 17.0 (15/03/2017)

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	S-Line Street Lighting Product
Model No.	SLI.2 - LA044, LA054, LA064, LA074, LA084
Client Reference	18_249
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	390mm x 195mm x 65mm
Product Supply Requirement	230/240V 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 model SLI.2 - LA044, LA054, LA064, LA074, LA084

Operating Mode	610mA Drive current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	80.39	80.32	80.20	79.10	79.42
220	80.35	80.27	80.17	79.03	79.35
230	80.30	80.23	80.11	78.93	79.24
240	80.28	80.21	80.09	78.87	79.18
250	80.30	80.23	80.12	78.86	79.18
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	81.09	81.04	80.91	79.82	80.12
220	81.13	81.08	80.95	79.83	80.13
230	81.16	81.11	80.97	79.80	80.11
240	81.24	81.19	81.04	79.86	80.16
250	81.38	81.34	81.20	79.97	80.28
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.99	0.99	0.99	0.99	0.99
220	0.99	0.99	0.99	0.99	0.99
230	0.99	0.99	0.99	0.99	0.99
240	0.99	0.99	0.99	0.99	0.99
250	0.99	0.99	0.99	0.99	0.99
Ambient Temperature During Test (°C)			22.8		
PF Leading/Lagging			Leading		

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Table 3. Wattage and VA results for model SLI.2 - LA044, LA054, LA064, LA074, LA084

Operating Mode	550mA Drive current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	72.31	72.47	72.29	71.35	71.66
220	72.15	72.30	72.13	71.18	71.47
230	72.09	72.23	72.05	71.07	71.35
240	72.07	72.22	72.03	71.00	71.28
250	72.03	72.18	72.00	70.92	71.20
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	73.02	73.19	72.99	72.08	72.37
220	72.94	73.11	72.91	71.97	72.26
230	72.96	73.13	72.92	71.95	72.22
240	73.07	73.24	73.02	72.02	72.28
250	73.13	73.32	73.10	72.06	72.32
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.99	0.99	0.99	0.99	0.99
220	0.99	0.99	0.99	0.99	0.99
230	0.99	0.99	0.99	0.99	0.99
240	0.99	0.99	0.99	0.99	0.99
250	0.98	0.98	0.98	0.98	0.98
Ambient Temperature During Test (°C)			22.3		
PF Leading/Lagging			Leading		

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Table 4. Wattage and VA results for model SLI.2 - LA044, LA054, LA064, LA074, LA084

Operating Mode	480mA Drive current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	62.82	63.35	62.89	62.32	62.69
220	62.79	63.33	62.87	62.26	62.63
230	62.78	63.32	62.86	62.21	62.57
240	62.79	63.33	62.87	62.18	62.53
250	62.79	63.33	62.87	62.14	62.50
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	63.54	64.08	63.60	63.05	63.41
220	63.60	64.14	63.67	63.08	63.44
230	63.68	64.23	63.75	63.13	63.49
240	63.79	64.35	63.87	63.20	63.54
250	63.93	64.49	64.01	63.32	63.66
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.99	0.99	0.99	0.99	0.99
220	0.99	0.99	0.99	0.99	0.99
230	0.99	0.99	0.99	0.99	0.99
240	0.98	0.98	0.98	0.98	0.98
250	0.98	0.98	0.98	0.98	0.98
Ambient Temperature During Test (°C)			22.0		
PF Leading/Lagging			Leading		

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Table 5. Wattage and VA results for model SLI.2 - LA044, LA054, LA064, LA074, LA084

Operating Mode	405mA Drive current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	54.28	54.10	54.13	53.31	53.46
220	54.24	54.06	54.07	53.25	53.39
230	54.24	54.06	54.07	53.19	53.32
240	54.22	54.03	54.05	53.14	53.27
250	54.25	54.06	54.07	53.10	53.24
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	55.05	54.88	54.89	54.09	54.23
220	55.10	54.93	54.93	54.13	54.26
230	55.22	55.05	55.04	54.18	54.30
240	55.32	55.15	55.14	54.28	54.40
250	55.52	55.34	55.32	54.38	54.52
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.99	0.99	0.99	0.99	0.99
220	0.98	0.98	0.98	0.98	0.98
230	0.98	0.98	0.98	0.98	0.98
240	0.98	0.98	0.98	0.98	0.98
250	0.98	0.98	0.98	0.98	0.98
Ambient Temperature During Test (°C)			22.5		
PF Leading/Lagging			Leading		

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Table 6. Wattage and VA results for model SLI.2 - LA044, LA054, LA064, LA074, LA084

Operating Mode	305mA Drive current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	40.86	40.98	40.87	40.33	40.43
220	40.91	41.03	40.92	40.34	40.44
230	40.97	41.10	40.99	40.38	40.48
240	41.07	41.19	41.08	40.42	40.52
250	41.15	41.28	41.17	40.47	40.58
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	41.74	41.87	41.74	41.22	41.32
220	41.90	42.02	41.89	41.35	41.45
230	42.10	42.23	42.09	41.52	41.61
240	42.37	42.51	42.36	41.74	41.83
250	42.60	42.74	42.59	41.94	42.04
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)			22.4		
PF Leading/Lagging			Leading		

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Table 7. Wattage and VA results for model SLI.2 - LA044, LA054, LA064, LA074, LA084

Operating Mode	205mA Drive current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	27.90	28.20	28.01	27.64	27.71
220	27.98	28.27	28.09	27.66	27.73
230	28.04	28.33	28.15	27.69	27.76
240	28.12	28.42	28.21	27.74	27.79
250	28.20	28.49	28.29	27.76	27.82
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	28.98	29.27	29.06	28.74	28.80
220	29.24	29.53	29.31	28.91	28.96
230	29.47	29.77	29.56	29.16	29.21
240	29.76	30.06	29.81	29.39	29.44
250	30.09	30.39	30.13	29.69	29.74
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	0.95	0.95	0.94	0.94
250	0.94	0.94	0.94	0.93	0.94
Ambient Temperature During Test (°C)			23.3		
PF Leading/Lagging			Leading		

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Table 8. Wattage and VA results for model SLI.2 - LA044, LA054, LA064, LA074, LA084

Operating Mode	105mA Drive current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	15.41	15.64	15.43	15.14	15.17
220	15.46	15.67	15.46	15.14	15.16
230	15.55	15.75	15.55	15.16	15.18
240	15.61	15.78	15.59	15.16	15.18
250	15.67	15.82	15.64	15.14	15.15
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	17.01	17.22	16.99	16.75	16.78
220	17.36	17.56	17.31	17.09	17.12
230	17.69	17.89	17.64	17.31	17.32
240	18.06	18.24	18.00	17.68	17.68
250	18.60	18.75	18.52	18.10	18.08
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.91	0.91	0.91	0.90	0.90
220	0.89	0.89	0.89	0.89	0.89
230	0.88	0.88	0.88	0.88	0.88
240	0.86	0.87	0.87	0.86	0.86
250	0.84	0.84	0.84	0.84	0.84
Ambient Temperature During Test (°C)			22.6		
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

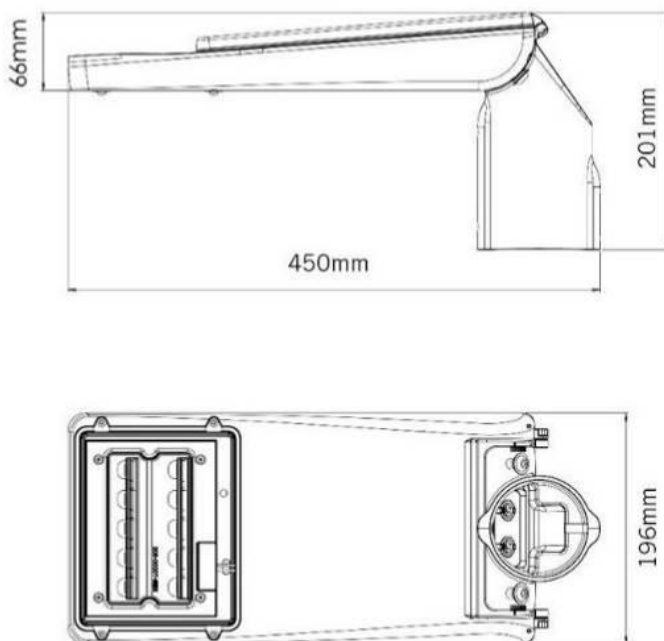


Figure 2. Product specifications

End

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