

T e s t R e p o r t

Report No : L15929D
Client: : Holophane Europe
Bond Ave
Bletchley
Milton Keynes
MK1 1JG
Description : Factor Small Street lighting luminaire - 30LED - 150W Driver
Manufacturer : Holophane Europe
Type/Model : FTS 30LED 150W Philips - 30LED 1 x 929000962306
Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 14.0 (17/12/2014)
Date Testing Started : 12/02/2016
Conclusion : Refer to body of report
Date of Issue : 01/08/2016
Date of Expiry : 30/07/2021

Checked by: J.ADAMS
Position: Accreditation and
Certification officer



Approved by: T.MALIK
Position: Operations and Quality
Manager



INTRODUCTION

The product identified in Table 1 were tested at the premises of Holophane Europe for measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 14.0 (17/12/2014).

PRODUCT 1 DETAILS

Table 1. Test Sample Details

Product Description	Factor Small Street lighting luminaire - 30LED - 150W Driver
Model No.	FTS 30LED 150W Philips - 30LED 1 x 929000962306
Number of Samples	Five
Condition of Samples	Good
Nominal Dimensions	688mm x 207mm x 136mm
Product Supply Requirement	240V AC 50 Hz
Lamp Type and Power	LED – 93W
Sampling Method: Test samples randomly selected 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 - FTS 30LED 150W Philips - 30LED 1 x 929000962306

Operating Mode	Factor Small Street lighting luminaire - 30LED - 150W Driver - running at - 1050mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	101.65	102.43	101.95	103.60	103.03
220	101.51	102.18	101.86	103.45	102.95
230	101.41	102.01	101.75	103.29	102.92
240	101.29	101.80	101.63	103.14	102.87
250	101.19	101.62	101.52	103.00	102.85
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	103.17	103.98	103.51	105.15	104.55
220	103.31	103.99	103.70	105.27	104.73
230	103.46	104.13	103.87	105.40	104.99
240	103.56	104.15	103.99	105.52	105.21
250	103.89	104.33	104.26	105.74	105.57
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.99	0.99	0.98	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	0.97	0.97	0.97	0.97	0.97
Ambient Temperature During Test (°C)			24.8		
PF Leading/Lagging			Leading		

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Table 3. Wattage and VA results for model - FTS 30LED 150W Philips - 30LED 1 x 929000962306

Operating Mode	Factor Small Street lighting luminaire - 30LED - 150W Driver - running at - 800mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	75.95	76.16	76.16	77.33	77.08
220	76.00	76.17	76.21	77.34	77.17
230	76.06	76.19	76.26	77.35	77.29
240	76.11	76.20	76.30	77.36	77.38
250	76.20	76.27	76.37	77.40	77.55
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	77.91	78.16	78.15	79.28	79.01
220	78.20	78.42	78.49	79.56	79.38
230	78.58	78.77	78.88	79.94	79.85
240	78.83	79.00	79.12	80.11	80.15
250	79.35	79.51	79.60	80.66	80.80
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.97	0.97	0.97	0.98	0.98
220	0.97	0.97	0.97	0.97	0.97
230	0.97	0.97	0.97	0.97	0.97
240	0.97	0.96	0.96	0.97	0.97
250	0.96	0.96	0.96	0.96	0.96
Ambient Temperature During Test (°C)			24.9		
PF Leading/Lagging			Leading		

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Table 4. Wattage and VA results for model - FTS 30LED 150W Philips - 30LED 1 x 929000962306

Operating Mode	Factor Small Street lighting luminaire - 30LED - 150W Driver - running at - 600mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	56.74	56.73	56.82	57.60	57.58
220	56.82	56.80	56.91	57.66	57.76
230	56.91	56.84	57.01	57.71	57.91
240	56.98	56.86	57.07	57.73	58.04
250	57.05	56.88	57.14	57.75	58.18
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	58.90	58.94	59.05	59.78	59.75
220	59.36	59.40	59.52	60.30	60.42
230	59.85	59.86	60.06	60.61	60.75
240	60.20	60.17	60.40	61.05	61.30
250	60.68	60.63	60.92	61.56	61.96
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	0.95	0.94	0.94	0.95	0.95
250	0.94	0.94	0.94	0.94	0.94
Ambient Temperature During Test (°C)			24		
PF Leading/Lagging			Leading		

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Table 5. Wattage and VA results for model - FTS 30LED 150W Philips - 30LED 1 x 929000962306

Operating Mode	Factor Small Street lighting luminaire - 30LED - 150W Driver - running at - 400mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	38.24	37.98	38.33	38.72	38.96
220	38.35	38.05	38.43	38.79	39.12
230	38.47	38.12	38.54	38.86	39.29
240	38.55	38.16	38.62	38.91	39.48
250	38.66	38.21	38.73	38.96	39.63
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	41.08	40.89	41.24	41.59	41.78
220	42.03	41.82	42.12	42.30	42.61
230	42.27	42.02	42.45	42.66	43.03
240	42.79	42.54	43.06	43.38	43.91
250	43.53	43.20	43.72	43.94	44.54
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.93	0.93	0.93	0.93	0.93
220	0.91	0.91	0.91	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	0.88	0.89	0.89	0.89
Ambient Temperature During Test (°C)			25.3		
PF Leading/Lagging			Leading		

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Table 6. Wattage and VA results for model - FTS 30LED 150W Philips - 30LED 1 x 929000962306

Operating Mode	Factor Small Street lighting luminaire - 30LED - 150W Driver - running at - 200mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	20.47	20.19	20.40	20.44	20.96
220	20.61	20.28	20.53	20.54	21.14
230	20.74	20.37	20.67	20.64	21.36
240	20.87	20.46	20.80	20.73	21.53
250	20.85	20.39	20.80	20.67	21.67
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	24.72	24.58	24.75	24.86	25.26
220	25.61	25.18	25.47	25.45	26.10
230	26.41	26.31	26.59	26.62	27.18
240	27.69	27.48	27.72	27.76	28.29
250	29.46	29.43	30.02	30.08	30.55
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.83	0.82	0.82	0.82	0.83
220	0.80	0.81	0.81	0.81	0.81
230	0.79	0.77	0.78	0.78	0.79
240	0.75	0.74	0.75	0.75	0.76
250	0.71	0.69	0.69	0.69	0.71
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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DEVIATIONS(S) FROM TEST STANDARD

No reported deviations from test standard.

MEASUREMENT UNCERTAINTY

The following expanded uncertainties apply to the measurements shown in the results;

The expanded uncertainties for true power (W) measurement are $\pm 0.25\%$.

The expanded uncertainties for apparent power (VA) measurements are $\pm 0.39\%$ for 5W to 50W.

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 for model - FTS 30LED 150W Philips - 30LED 1 x 929000962306

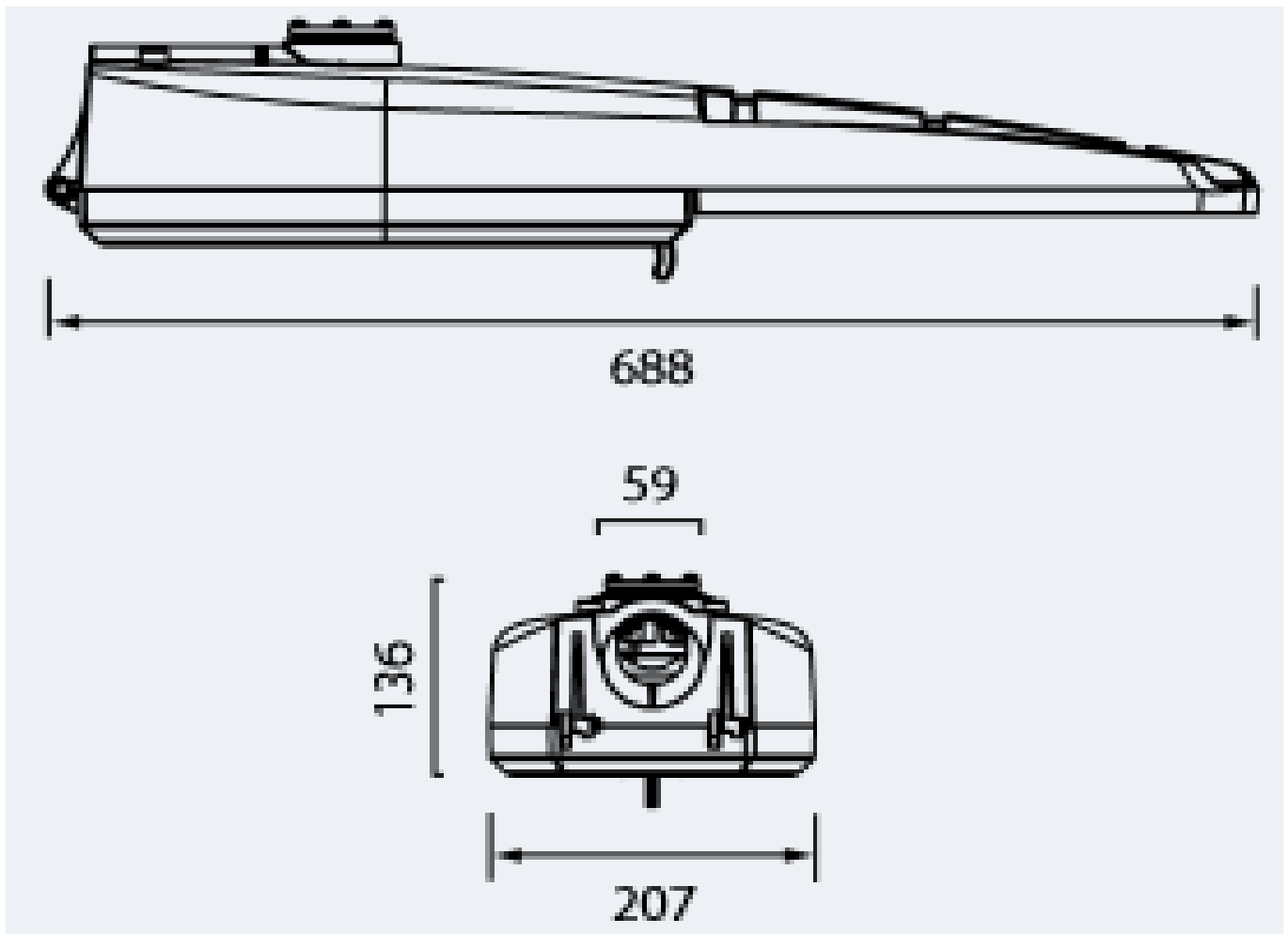


Figure 2. Product dimensions for model - FTS 30LED 150W Philips - 30LED 1 x 929000962306

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