

T e s t R e p o r t

Report No : L15929E
Client: : Holophane Europe
Bond Ave
Bletchley
Milton Keynes
MK1 1JG
Description : Factor Small Street lighting luminaire - 10LED - 22W Driver
Manufacturer : Holophane Europe
Type/Model : FTS 10LED 22W driver - 929000991206
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: Operation 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 - 10LED - 22W Driver
Model No.	FTS 10LED 22W driver - 929000991206
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 – 24W
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 10LED 22W driver - 929000991206

Operating Mode	Factor Small Street lighting luminaire - 10LED - 22W Driver - running at - 700mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	23.97	23.72	24.13	23.76	23.67
220	23.98	23.68	24.13	23.72	23.64
230	23.98	23.65	24.14	23.68	23.60
240	24.00	23.63	24.16	23.66	23.57
250	24.02	23.61	24.18	23.64	23.56
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	24.17	23.93	24.33	23.96	23.88
220	24.21	23.92	24.37	23.95	23.87
230	24.24	23.92	24.40	23.96	23.88
240	24.31	23.95	24.47	23.98	23.90
250	24.39	24.09	24.57	24.07	23.98
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)			25.0		
PF Leading/Lagging			Leading		

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Table 3. Wattage and VA results for model - FTS 10LED 22W driver - 929000991206

Operating Mode	Factor Small Street lighting luminaire - 10LED - 22W Driver - running at - 560mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	19.31	19.06	19.46	19.09	19.05
220	19.34	19.05	19.48	19.08	19.04
230	19.37	19.04	19.51	19.07	19.02
240	19.40	19.03	19.55	19.05	19.01
250	19.44	19.02	19.59	19.05	19.01
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	19.54	19.28	19.68	19.32	19.27
220	19.59	19.30	19.73	19.34	19.30
230	19.66	19.33	19.81	19.36	19.32
240	19.73	19.37	19.88	19.39	19.35
250	19.83	19.42	19.98	19.44	19.40
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	0.98	0.99	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)			25.0		
PF Leading/Lagging			Leading		

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Table 4. Wattage and VA results for model - FTS 10LED 22W driver - 929000991206

Operating Mode	Factor Small Street lighting luminaire - 10LED - 22W Driver - running at - 420mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	14.82	14.54	14.93	14.55	14.53
220	14.86	14.53	14.97	14.55	14.53
230	14.91	14.54	15.01	14.56	14.54
240	14.95	14.54	15.05	14.56	14.54
250	15.00	14.54	15.10	14.56	14.54
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	15.08	14.79	15.19	14.81	14.78
220	15.16	14.84	15.27	14.86	14.84
230	15.25	14.89	15.35	14.90	14.88
240	15.34	14.94	15.45	14.96	14.94
250	15.44	14.99	15.55	15.01	14.99
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	0.98	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)			25.0		
PF Leading/Lagging			Leading		

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Table 5. Wattage and VA results for model - FTS 10LED 22W driver - 929000991206

Operating Mode	Factor Small Street lighting luminaire - 10LED - 22W Driver - running at - 280mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	10.53	10.20	10.60	10.22	10.21
220	10.57	10.21	10.64	10.24	10.23
230	10.66	10.23	10.70	10.24	10.24
240	10.68	10.23	10.74	10.25	10.25
250	10.75	10.25	10.81	10.27	10.26
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	10.85	10.53	10.92	10.54	10.54
220	10.94	10.58	11.01	10.61	10.61
230	11.06	10.67	11.13	10.68	10.68
240	11.16	10.73	11.23	10.75	10.75
250	11.30	10.82	11.37	10.84	10.84
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.97	0.97	0.97	0.97	0.97
220	0.97	0.96	0.97	0.96	0.96
230	0.96	0.96	0.96	0.96	0.96
240	0.96	0.95	0.96	0.95	0.95
250	0.95	0.95	0.95	0.95	0.95
Ambient Temperature During Test (°C)			25.0		
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 - 10LED - 22W Driver - running at - 140mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	6.27	5.95	6.31	5.95	5.97
220	6.33	5.97	6.38	5.97	5.99
230	6.39	5.99	6.44	5.99	6.01
240	6.46	6.01	6.50	6.01	6.03
250	6.52	6.03	6.56	6.03	6.05
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	6.72	6.42	6.77	6.42	6.44
220	6.87	6.53	6.92	6.54	6.56
230	7.01	6.64	7.06	6.64	6.66
240	7.16	6.76	7.21	6.75	6.77
250	7.31	6.87	7.36	6.88	6.90
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.93	0.93	0.93	0.93	0.93
220	0.92	0.91	0.92	0.91	0.91
230	0.91	0.90	0.91	0.90	0.90
240	0.90	0.89	0.90	0.89	0.89
250	0.89	0.88	0.89	0.88	0.88
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

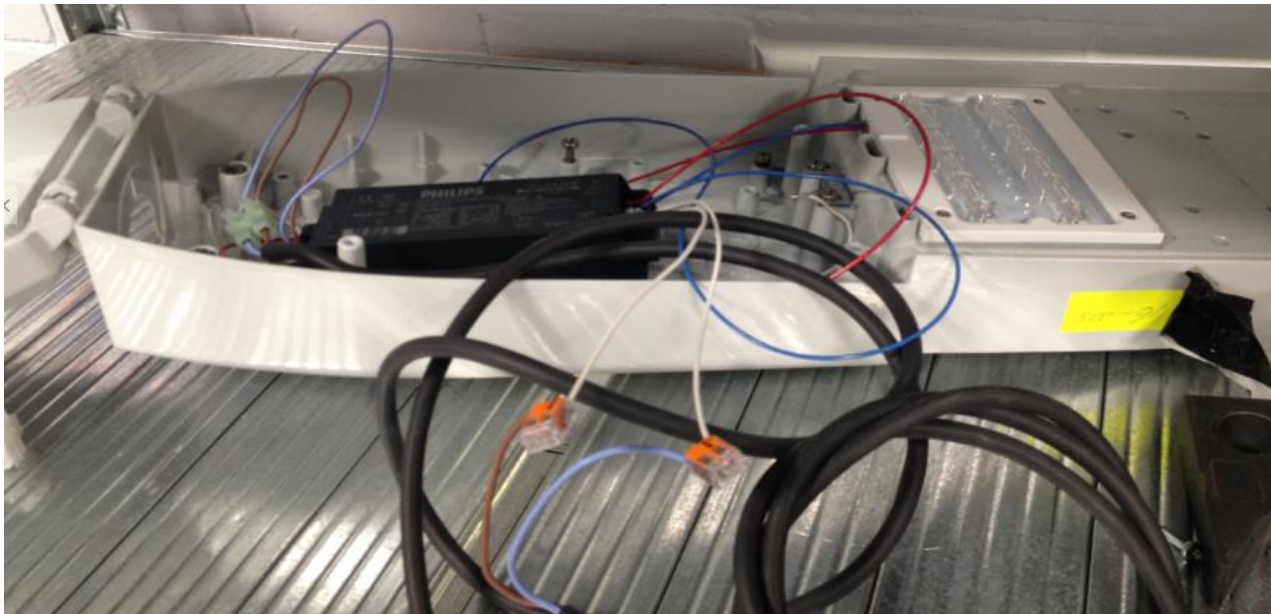


Figure 1. Product image for model - FTS 10LED 22W driver - 929000991206

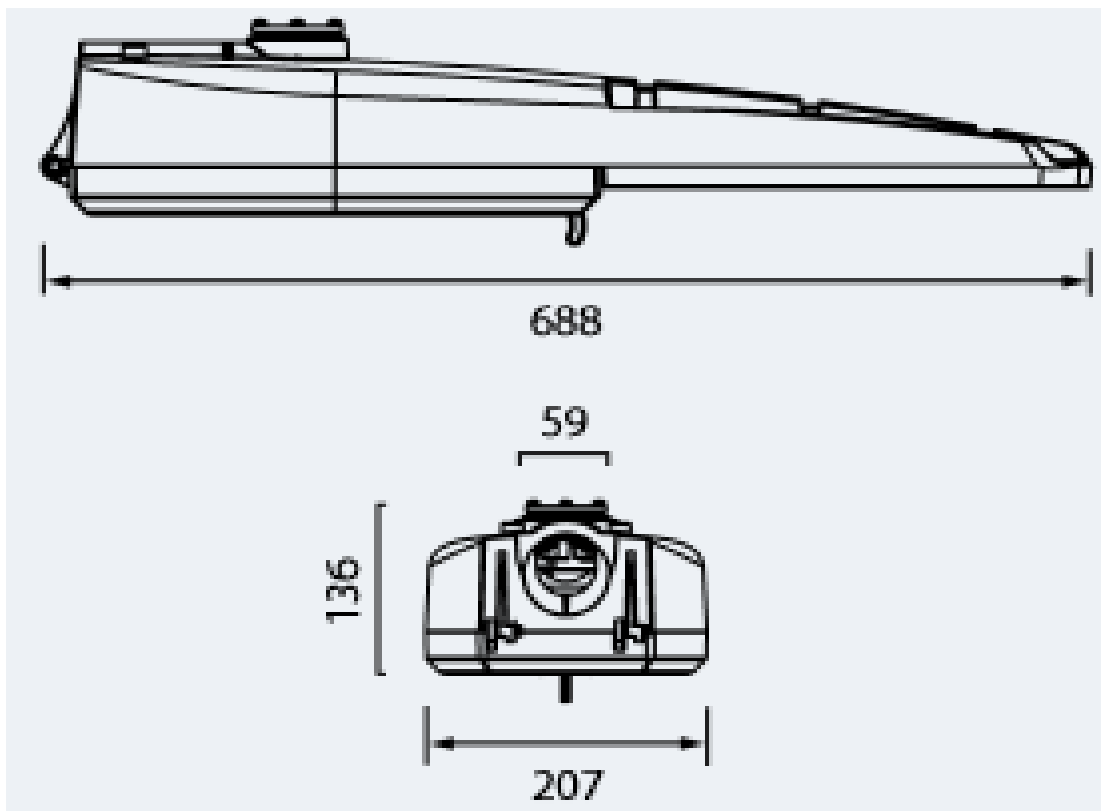


Figure 2. Product dimensions for model - FTS 10LED 22W driver - 929000991206

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