

T e s t R e p o r t

Report No : L15929A
Client: : Holophane Europe
Bond Ave
Bletchley
Milton Keynes
MK1 1JG
Description : Factor Small Street lighting luminaire - 20LED - 40W Driver
Manufacturer : Holophane Europe
Type/Model : FTS 20LED 40W Philips - 20LED 1 x 929000989206 driver
Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 14.0 (17/12/2014)
Date Testing Started : 10/02/2016
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 DETAILS

Table 1. Test Sample Details

Product Description	Factor Small Street lighting luminaire - 20LED - 40W Driver
Model No.	FTS 20LED 40W Philips - 20LED 1 x 929000989206 driver
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 – 42W
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 20LED 40W Philips - 20LED 1 x 929000989206 driver

Operating Mode	Factor Small Street lighting luminaire - 20LED - 40W Driver - running at - 650mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	42.67	41.74	42.24	43.03	42.73
220	42.58	41.60	42.14	42.90	42.72
230	42.55	41.53	42.12	42.83	42.75
240	42.52	41.49	42.10	42.78	42.80
250	42.52	41.44	42.11	42.74	42.88
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	43.06	42.15	42.63	43.44	43.13
220	43.03	42.07	42.60	43.37	43.16
230	43.06	42.07	42.62	43.37	43.27
240	43.11	42.10	42.69	43.39	43.40
250	43.19	42.13	42.76	43.43	43.53
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)			23.5		
PF Leading/Lagging			Leading		

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Table 3. Wattage and VA results for model - FTS 20LED 40W Philips - 20LED 1 x 929000989206 driver

Operating Mode	Factor Small Street lighting luminaire - 20LED - 40W Driver - running at - 550mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	36.02	35.12	35.62	36.23	36.18
220	36.01	35.08	35.62	36.19	36.22
230	36.00	35.05	35.63	36.15	36.30
240	36.03	35.03	35.65	36.11	36.37
250	36.05	35.00	35.67	36.10	36.45
VA					
36.02					
Voltage	Sample Number				
	1	2	3	4	5
210	36.41	35.54	36.03	36.65	36.58
220	36.48	35.57	36.09	36.67	36.67
230	36.55	35.60	36.16	36.72	36.83
240	36.64	35.66	36.26	36.75	36.98
250	36.74	35.74	36.35	36.81	37.14
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	0.99
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)			23.7		
PF Leading/Lagging			Leading		

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Table 4. Wattage and VA results for model - FTS 20LED 40W Philips - 20LED 1 x 929000989206 driver

Operating Mode	Factor Small Street lighting luminaire - 20LED - 40W Driver - running at - 450mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	29.60	28.83	29.29	29.73	29.82
220	29.62	28.80	29.30	29.70	29.89
230	29.63	28.78	29.31	29.67	29.98
240	29.66	28.76	29.35	29.65	30.06
250	29.69	28.75	29.37	29.63	30.17
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	30.06	29.32	29.76	30.20	30.30
220	30.17	29.40	29.87	30.25	30.43
230	30.28	29.47	29.98	30.34	30.62
240	30.37	29.54	30.07	30.36	30.76
250	30.48	29.58	30.17	30.46	30.94
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	0.98	0.97	0.98	0.98	0.98
250	0.97	0.97	0.97	0.97	0.98
Ambient Temperature During Test (°C)			23.2		
PF Leading/Lagging			Leading		

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Table 5. Wattage and VA results for model - FTS 20LED 40W Philips - 20LED 1 x 929000989206 driver

Operating Mode	Factor Small Street lighting luminaire - 20LED - 40W Driver - running at - 350mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	23.38	22.65	23.11	23.38	23.61
220	23.41	22.64	23.15	23.38	23.70
230	23.45	22.64	23.19	23.38	23.81
240	23.49	22.65	23.23	23.38	23.93
250	23.54	22.65	23.28	23.38	24.05
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	23.91	23.25	23.69	23.93	24.14
220	24.03	23.29	23.76	24.00	24.29
230	24.16	23.40	23.91	24.11	24.52
240	24.28	23.49	24.05	24.23	24.74
250	24.50	23.67	24.26	24.39	25.02
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.98	0.97	0.98	0.98	0.98
220	0.97	0.97	0.97	0.97	0.98
230	0.97	0.97	0.97	0.97	0.97
240	0.97	0.96	0.97	0.96	0.97
250	0.96	0.96	0.96	0.96	0.96
Ambient Temperature During Test (°C)			23.3		
PF Leading/Lagging			Leading		

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Table 6. Wattage and VA results for model - FTS 20LED 40W Philips - 20LED 1 x 929000989206 driver

Operating Mode	Factor Small Street lighting luminaire - 20LED - 40W Driver - running at - 250mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	17.24	16.60	17.05	17.18	17.57
220	17.29	16.62	17.11	17.20	17.68
230	17.34	16.63	17.16	17.21	17.81
240	17.40	16.65	17.22	17.23	17.93
250	17.46	16.66	17.29	17.24	18.05
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	17.91	17.30	17.76	17.86	18.21
220	18.04	17.41	17.86	17.97	18.42
230	18.23	17.57	18.04	18.12	18.68
240	18.42	17.73	18.23	18.30	18.95
250	18.57	17.84	18.38	18.38	19.13
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.96	0.96	0.96	0.96	0.97
220	0.96	0.95	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	0.95
250	0.94	0.93	0.94	0.94	0.94
Ambient Temperature During Test (°C)			23.5		
PF Leading/Lagging			Leading		

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Table 7. Wattage and VA results for model - FTS 20LED 40W Philips - 20LED 1 x 929000989206 driver

Operating Mode	Factor Small Street lighting luminaire - 20LED - 40W Driver - running at - 150mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	11.32	10.74	11.16	11.16	11.66
220	11.39	10.77	11.23	11.19	11.79
230	11.46	10.80	11.30	11.21	11.91
240	11.52	10.83	11.37	11.25	12.05
250	11.60	10.87	11.45	11.28	12.21
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	12.16	11.66	12.01	12.03	12.49
220	12.39	11.84	12.23	12.25	12.77
230	12.62	12.05	12.47	12.40	13.01
240	12.83	12.23	12.68	12.63	13.33
250	13.09	12.48	12.93	12.86	13.67
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.93	0.92	0.93	0.93	0.93
220	0.92	0.91	0.92	0.91	0.92
230	0.91	0.90	0.91	0.90	0.91
240	0.90	0.89	0.90	0.89	0.90
250	0.89	0.87	0.89	0.88	0.89
Ambient Temperature During Test (°C)			23.6		
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

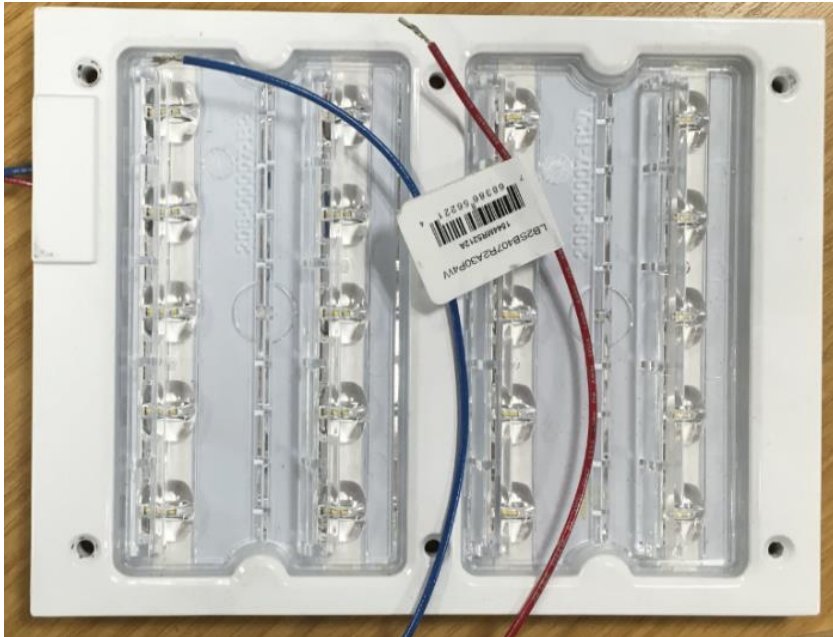


Figure 1. Product image for model - FTS 20LED 40W Philips - 20LED 1 x 929000989206 driver



Figure 2. Product image for model - FTS 20LED 40W Philips - 20LED 1 x 929000989206 driver

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