Test Report

Report No	:	MI612
Client:	:	Holophane Europe Ltd Bond Ave Bletchley Milton Keynes MK1 1JG
Description	:	Factor Street lighting luminaire
Manufacturer	:	Holophane Europe Ltd
Type/Model	:	FTR 60 LED - 700-525-350
Test Specification	:	Measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 14.0 (17/12/2014)
Date Testing Started	:	30/06/2015
Conclusion	:	Refer to body of report
Date of Issue	:	24/07/2015
Date of Expiry	:	23/07/2020

Checked by: **J.ADAMS**
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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 14.0 (17/12/2014).

PRODUCT DETAILS

Table 1. *Test Sample Details*

Product Description	Factor Street lighting luminaire with a 150W Philips Driver
Model No.	FTR 60 LED - 700-525-350
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	L 704mm, W 330mm, H 116mm
Product Supply Requirement	230V AC 50Hz
Lamp Type and Power	LED – Variable power
Sampling Method: Random selection of units as supplied by customer.	

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 Factor Street lighting luminaire with a 150W Philips Driver***

Operating Mode	700mA Drive Current				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	136.01	137.05	138.13	140.56	140.03
220	136.07	137.80	138.23	140.67	140.11
230	136.16	137.12	138.32	140.74	140.16
240	136.30	137.23	138.50	140.97	140.32
250	136.63	137.52	138.95	141.53	140.73
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	138.57	139.57	140.70	143.15	142.47
220	139.06	140.03	141.21	143.70	142.98
230	139.58	140.51	141.74	144.21	143.46
240	140.22	141.12	142.41	145.01	144.17
250	141.12	141.99	143.43	146.11	145.10
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)	24.3				
PF Leading/Lagging	Leading				

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Table 3. ***Wattage and VA results for Factor Street lighting luminaire with a 150W Philips Driver***

Operating Mode	560mA Drive Current				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	107.45	108.21	109.16	110.97	110.50
220	107.66	108.36	109.36	111.11	110.64
230	107.91	108.55	109.60	111.31	110.84
240	108.14	108.73	109.82	111.51	111.03
250	108.30	108.87	109.96	111.58	111.11
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	110.27	110.99	111.96	113.83	113.22
220	110.95	111.62	112.64	114.40	113.78
230	111.72	112.34	113.40	115.10	114.47
240	112.49	113.06	114.15	115.89	115.23
250	113.16	113.71	114.79	116.51	115.85
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.97	0.97	0.97	0.97	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	0.96	0.96	0.96	0.96	0.96
250	0.96	0.96	0.96	0.96	0.96
Ambient Temperature During Test (°C)	24.5				
PF Leading/Lagging	Leading				

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Table 4. ***Wattage and VA results for Factor Street lighting luminaire with a 150W Philips Driver***

Operating Mode	420mA Drive Current				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	80.57	81.07	81.88	83.13	82.60
220	80.66	81.12	81.97	83.16	82.65
230	80.79	81.17	82.09	83.20	82.71
240	80.84	81.16	82.12	83.22	82.73
250	80.88	81.14	82.13	83.16	82.70
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	83.78	84.26	85.07	86.39	85.72
220	84.30	84.74	85.58	86.90	86.24
230	85.00	85.37	86.26	87.52	86.87
240	85.66	85.97	86.91	88.14	87.49
250	86.26	86.52	87.48	88.65	88.01
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	0.94	0.94	0.94	0.95
250	0.94	0.94	0.94	0.94	0.94
Ambient Temperature During Test (°C)	24.3				
PF Leading/Lagging	Leading				

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Table 5. ***Wattage and VA results for Factor Street lighting luminaire with a 150W Philips Driver***

Operating Mode	280mA Drive Current				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	55.18	55.19	56.07	56.56	56.08
220	54.90	54.96	55.80	55.89	55.40
230	54.62	54.74	55.51	56.13	55.63
240	54.36	54.53	55.25	55.89	55.40
250	54.08	54.28	54.97	55.65	55.17
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	61.44	61.51	62.29	63.01	62.35
220	60.48	60.58	61.34	62.03	61.39
230	59.56	59.70	60.42	61.16	60.53
240	58.73	58.90	59.59	60.33	59.71
250	57.88	58.09	58.74	59.56	58.95
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.90	0.90	0.90	0.90	0.90
220	0.91	0.91	0.91	0.90	0.90
230	0.92	0.92	0.92	0.92	0.92
240	0.93	0.93	0.93	0.93	0.93
250	0.93	0.93	0.94	0.93	0.94
Ambient Temperature During Test (°C)	24.4				
PF Leading/Lagging	Leading				

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Table 6. ***Wattage and VA results for Factor Street lighting luminaire with a 150W Philips Driver***

Operating Mode	140mA Drive Current				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	29.13	29.05	29.59	29.81	29.32
220	29.36	29.24	29.82	30.00	29.53
230	29.62	29.44	30.08	30.18	29.72
240	29.92	29.69	30.38	30.44	29.98
250	29.88	29.65	30.36	30.41	29.95
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	34.01	34.00	34.44	34.87	34.30
220	34.85	34.82	35.29	35.72	35.15
230	35.89	35.80	36.31	36.65	36.08
240	37.00	36.88	37.40	37.76	37.17
250	41.02	40.55	41.23	41.37	40.82
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.86	0.85	0.86	0.85	0.85
220	0.84	0.84	0.85	0.84	0.84
230	0.83	0.82	0.83	0.82	0.82
240	0.81	0.81	0.81	0.81	0.81
250	0.73	0.73	0.74	0.74	0.73
Ambient Temperature During Test (°C)	24.2				
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

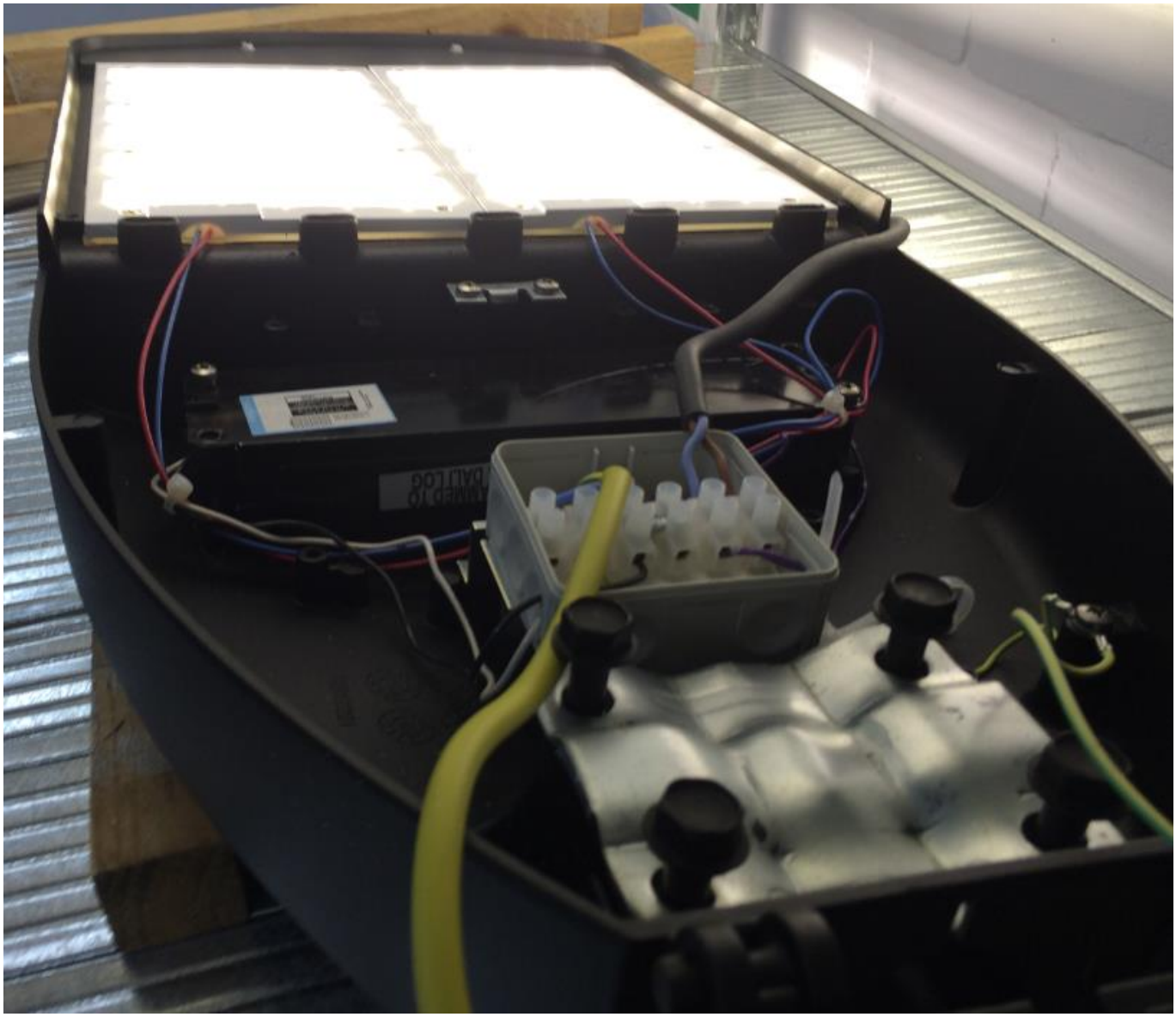

Figure 1. ***Product image***

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