

## T e s t R e p o r t

**Report No** : L16365

**Client:** : Venture Lighting Europe Limited  
Unit 11, Willow Farm Business Park  
Castle Donnington  
DE74 2US

**Description** : LED Module and Driver

**Manufacturer** : Not Disclosed

**Type/Model** : CMP047

**Test Specification** : Measurement of power consumption in accordance with the  
'Unmetered Supplies Operational Information Document' –  
Version 16.0 (16/11/2016)

**Date Testing Started** : 16/03/2017

**Conclusion** : Refer to body of report

**Date of Issue** : 20/03/2017

**Date of Expiry** : 19/03/2022

**Tested by:** A.BROTHWOOD  
**Position:** Laboratory Engineer



**Approved:** M.LLOYD  
**Position:** Luminaires Team  
Leader



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## **INTRODUCTION**

Venture Lighting Europe Limited has supplied the product identified in table 1 for measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 16.0 (16/11/2016).

## **PRODUCT DETAILS**

**Table 1. Test Sample Details**

Product Description	LED Module and Driver
Model No.	CMP047
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	280mm x 70mm x 50mm
Product Supply Requirement	100-277V AC 50/60Hz
Lamp Type and Power	LED 60W
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 LED Module and Driver**

Operating Mode	Driver output 1050mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	61.27	61.40	60.68	61.02	61.01
220	61.23	61.34	60.64	60.97	60.97
230	61.17	61.27	60.63	60.90	60.99
240	61.15	61.25	60.62	60.88	60.94
250	61.16	61.23	60.61	60.85	60.92
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	62.94	63.08	62.32	62.73	62.75
220	63.21	63.32	62.58	62.99	63.02
230	63.51	63.60	62.92	63.27	63.35
240	63.87	63.96	63.29	63.64	63.72
250	64.65	64.50	63.89	64.01	64.15
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.97	0.97	0.97	0.97	0.97
220	0.97	0.97	0.97	0.97	0.97
230	0.96	0.96	0.96	0.96	0.96
240	0.96	0.96	0.96	0.96	0.96
250	0.95	0.95	0.95	0.95	0.95
Ambient Temperature During Test (°C)			23.6		
PF Leading/Lagging			Leading		

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**Table 3. Wattage and VA results for LED Module and Driver**

Operating Mode	Driver output 900mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	52.40	52.54	51.81	52.15	52.13
220	52.38	52.52	51.80	52.14	52.12
230	52.37	52.51	51.80	52.13	52.11
240	52.39	52.52	51.82	52.14	52.12
250	52.38	52.52	51.82	52.16	52.13
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	54.28	54.42	53.67	54.08	54.07
220	54.60	54.73	53.98	54.40	54.38
230	54.98	55.08	54.34	54.75	54.74
240	56.01	55.95	55.26	55.42	55.57
250	56.82	56.93	56.12	56.42	56.68
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.97	0.97	0.97	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	0.94
250	0.92	0.92	0.92	0.92	0.92
Ambient Temperature During Test (°C)			23.6		
PF Leading/Lagging			Leading		

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**Table 4. Wattage and VA results for LED Module and Driver**

Operating Mode	Driver output 700mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	40.89	41.08	40.32	40.68	40.55
220	40.92	41.12	40.35	40.71	40.59
230	40.95	41.14	40.38	40.74	40.62
240	40.95	41.14	40.38	40.76	40.61
250	40.95	41.15	40.42	40.75	40.69
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	43.24	43.27	42.59	42.92	42.79
220	44.01	44.15	43.36	43.67	43.68
230	44.62	44.78	43.96	44.30	44.38
240	45.25	45.43	44.53	44.94	45.04
250	45.85	46.03	46.30	45.51	47.50
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.95	0.95	0.95	0.95	0.95
220	0.93	0.93	0.93	0.93	0.93
230	0.92	0.92	0.92	0.92	0.92
240	0.90	0.91	0.91	0.91	0.90
250	0.89	0.89	0.87	0.90	0.86
Ambient Temperature During Test (°C)			23.6		
PF Leading/Lagging			Leading		

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**Table 5. Wattage and VA results for LED Module and Driver**

Operating Mode	Driver output 450mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	27.33	27.61	26.81	27.22	26.97
220	27.36	27.63	26.83	27.24	26.99
230	27.43	27.70	26.88	27.29	27.07
240	27.47	27.74	26.91	27.33	27.11
250	27.50	27.77	26.94	27.37	27.15
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	30.52	30.78	29.87	30.34	30.35
220	31.00	31.25	30.28	30.81	30.70
230	32.51	32.81	31.08	31.51	32.76
240	33.29	33.61	31.70	32.10	33.28
250	33.50	33.87	31.76	32.21	33.28
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.90	0.90	0.90	0.90	0.89
220	0.88	0.88	0.89	0.88	0.88
230	0.84	0.84	0.86	0.87	0.83
240	0.83	0.83	0.85	0.85	0.81
250	0.82	0.82	0.85	0.85	0.82
Ambient Temperature During Test (°C)			23.6		
PF Leading/Lagging			Leading		

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**Table 6. Wattage and VA results for LED Module and Driver**

Operating Mode	Driver output 167mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	13.24	13.58	12.69	13.23	12.79
220	13.32	13.66	12.77	13.29	12.88
230	13.30	13.69	12.66	13.18	12.85
240	13.20	13.59	12.58	13.12	12.79
250	13.05	13.53	12.48	13.03	12.62
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	16.68	17.03	16.28	16.82	16.33
220	17.34	17.67	16.95	17.44	16.99
230	17.65	17.99	17.46	17.74	17.36
240	18.70	18.74	18.45	18.95	18.59
250	19.60	19.99	19.29	19.89	19.44
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.79	0.80	0.78	0.79	0.78
220	0.77	0.77	0.75	0.76	0.76
230	0.75	0.76	0.73	0.74	0.74
240	0.71	0.73	0.68	0.69	0.69
250	0.67	0.68	0.65	0.65	0.65
Ambient Temperature During Test (°C)			23.6		
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;

True Power (W):  $\pm 0.69\%$ , Apparent Power (VA):  $\pm 0.61\%$

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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