

T e s t R e p o r t

Report No : U10018G

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

Description : LED Corn Lamp - 27W

Manufacturer : Not disclosed

Type/Model : RTF103

Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 17.0 (15/03/2017)

Date Testing Started : 23/03/2018

Conclusion : Refer to body of report

Date of Issue : 09/04/2018

Date of Expiry : 08/04/2023

Tested by: E. PERRY
Position: Technical Administrator
Apprentice



Approved by: M. ALI
Position: Head of Department –
Photometry



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 17.0 (15/03/2017).

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	LED Corn Lamp - 27W
Model No.	RTF103
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	L – 255mm; W – 125mm
Product Supply Requirement	220-240V AC, 50/60Hz
Lamp Type and Power	LED, 27W
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 RTF110

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	26.83	27.12	26.95	27.06	26.97
220	26.89	27.22	26.96	27.11	27.02
230	26.86	27.17	26.83	27.05	26.92
240	26.97	27.27	26.90	27.11	27.00
250	27.11	27.41	27.02	27.25	27.13
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	28.53	29.07	29.27	28.85	29.02
220	28.85	29.44	29.56	29.16	29.33
230	29.12	29.68	29.74	29.38	29.55
240	29.54	30.10	30.45	29.75	29.95
250	30.02	30.57	30.62	30.22	30.44
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.94	0.93	0.92	0.94	0.93
220	0.93	0.92	0.91	0.93	0.92
230	0.92	0.92	0.90	0.92	0.91
240	0.91	0.91	0.88	0.91	0.90
250	0.90	0.90	0.88	0.90	0.89
Ambient Temperature During Test (°C)			24.8		
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*

End