

## T e s t   R e p o r t

**Report No** : U10018E

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

**Description** : LED Corn Lamp - 54W

**Manufacturer** : Not disclosed

**Type/Model** : RTF105

**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



1286

## **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 - 54W
Model No.	RTF105
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, 54W
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 RTF105**

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	53.87	53.88	53.75	53.97	52.64
220	55.90	54.03	53.90	54.10	52.78
230	54.19	54.22	54.10	54.27	52.92
240	54.42	54.47	54.78	54.47	53.12
250	54.76	54.85	54.79	54.79	53.39
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	56.07	56.20	56.33	56.36	55.21
220	56.58	56.74	56.88	56.90	55.77
230	57.20	57.36	57.52	57.52	56.37
240	57.90	58.09	58.29	58.21	57.06
250	58.76	59.00	59.25	59.07	57.86
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.96	0.96	0.95	0.96	0.95
220	0.99	0.95	0.95	0.95	0.95
230	0.95	0.95	0.94	0.94	0.94
240	0.94	0.94	0.94	0.94	0.93
250	0.93	0.93	0.92	0.93	0.92
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*

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