

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

**Report No** : Cer1579-260417  
**Client:** : TRT Lighting Ltd  
Unit 1, Target Park  
Shawbank Road  
Redditch  
B98 8YN  
**Description** : LED light engine with Philips Xitanium Full Prog 110W 0.3-1.0A  
sXt - 9290 009 915.  
**Manufacturer** : Not Disclosed  
**Type/Model** : LM-290-101-1-32LED  
**Test Specification** : Measurement of power consumption in accordance with the  
'Unmetered Supplies Operational Information Document' –  
Version 16.0  
**Date Testing Started** : 11/04/2017  
**Conclusion** : Refer to body of report  
**Date of Issue** : 08/06/2017  
**Date of Expiry** : 07/06/2022

**Checked by:** J. ADAMS  
**Position:** Accreditation &  
Certification Officer



**Approved by:** T. MALIK  
**Position:** Operations Manager



## **INTRODUCTION**

The products identified in Table 1 was tested at the premises of TRT Lighting Ltd for measurement of power consumption in accordance with the “Unmetered Supplies Operational Information” document – Version 16.0.

## **PRODUCT DETAILS**

**Table 1. Test Sample Details**

Product Description	LED light engine with Philips Xitanium Full Prog 110W 0.3-1.0A sXt - 9290 009 915.
Model No.	LM-290-101-1-32LED
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	L=101mm, W=290mm, H=5mm
Product Supply Requirement	240V 50Hz
Lamp Type and Power	LED, 95W
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 LM-290-101-1-32LED**

Operating Mode	940mA Drive Current				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	94.82	95.55	94.48	94.21	95.94
220	94.92	95.72	94.60	94.29	96.01
230	94.70	95.40	94.28	94.03	95.77
240	94.66	95.42	94.29	93.98	95.68
250	94.48	95.29	94.14	93.84	95.52
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	95.37	96.11	95.01	94.77	96.44
220	95.57	96.35	95.26	94.96	96.63
230	95.49	96.20	95.08	94.82	96.50
240	95.66	96.36	95.27	94.95	96.59
250	95.63	96.40	95.31	94.98	96.60
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	0.99	0.99	0.99	0.99	0.99
Ambient Temperature During Test (°C)			25.02		
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;

For power range 5W to 50W

True Power (W):  $\pm 0.25\%$ , Apparent Power (VA):  $\pm 0.39\%$

For power range 50W to 100W

True Power (W):  $\pm 0.25\%$ , Apparent Power (VA):  $\pm 0.39\%$

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

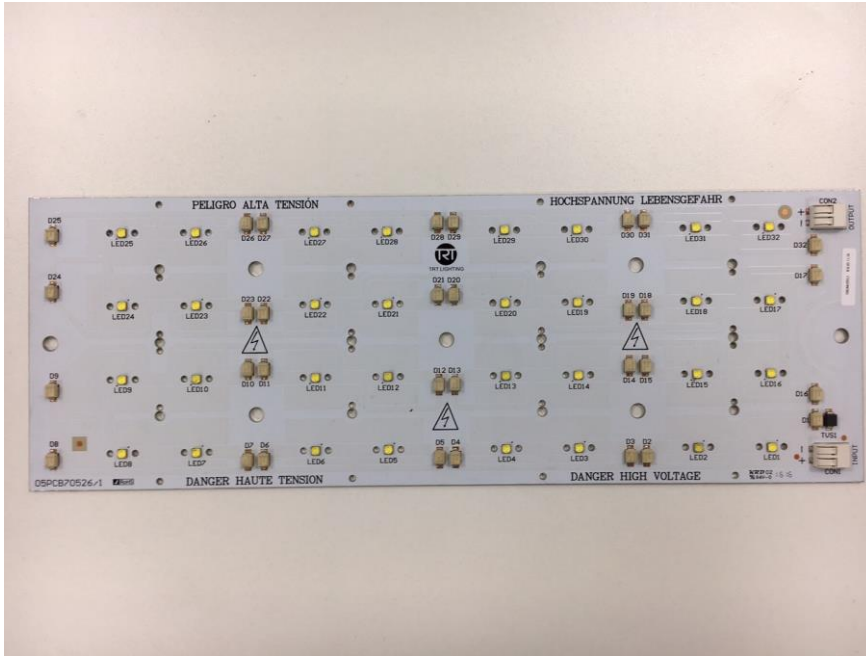


Figure 1. LED Module image



Figure 2. Control Gear image

End