

T e s t R e p o r t

Report No : Cer1579-070617

Client: : TRT Lighting Ltd
Unit 1, Target Park
Shawbank Road
Redditch
B98 8YN

Description : LED module and driver

Manufacturer : Not Disclosed

Type/Model : LM-290-101-2-48LED

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

Date Testing Started : 05/06/2017

Conclusion : Refer to body of report

Date of Issue : 23/06/2017

Date of Expiry : 22/06/2022

Reviewed by: J.ADAMS
Position: Accreditation and
Certification Officer



Approved: T.MALIK
Position: Operations Manager



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INTRODUCTION

TRT Lighting Ltd 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.	LM-290-101-2-48LED
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	202mm x 290mm x 5mm
Product Supply Requirement	240V 50Hz
Lamp Type and Power	LED
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-290-101-2-48LED

Operating Mode	885mA 100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	131.27	130.24	130.60	130.56	130.99
220	131.45	130.25	130.80	130.62	131.18
230	131.26	130.11	130.47	130.50	130.88
240	131.20	130.02	130.34	130.37	130.75
250	131.64	130.53	130.82	130.60	130.95
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	132.96	131.92	132.30	132.26	132.70
220	133.40	132.20	132.75	132.66	133.16
230	133.54	132.36	132.74	132.78	133.23
240	133.85	132.65	133.00	133.04	133.45
250	134.66	133.52	133.89	133.67	134.04
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	0.98	0.99
230	0.98	0.98	0.98	0.98	0.98
240	0.98	0.98	0.98	0.98	0.98
250	0.98	0.98	0.98	0.98	0.98
Ambient Temperature During Test (°C)			25		
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. Product image

End

This page is to be read in conjunction with the first page of this report