

T e s t R e p o r t

Report No : L15827
Client: : TRT Lighting Ltd
Unit 1, Target Park
Shawbank Road
Redditch
B98 8YN
Description : Verso LED Luminaire
Manufacturer : TRT Lighting Ltd
Type/Model : Refer to body of report
Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 14.0 (17/12/2014)
Date Testing Started : 09/05/2016
Conclusion : Refer to body of report
Date of Issue : 26/05/2016
Date of Expiry : 25/05/2021

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



Approved by: T.MALIK
Position: Operations & Quality
Manager



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INTRODUCTION

The product identified in Table 1 were tested at the premises of TRT Lighting Ltd for measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 14.0 (17/12/2014).

PRODUCT 1 DETAILS

Table 1. Test Sample Details

Product Description	Verso Basic 10W LED Luminaire
Model No.	Verso Basic 10W
Number of Samples	Five
Condition of Samples	Good
Nominal Dimensions	2180mm x 160mm x 23mm
Product Supply Requirement	240V AC 50Hz
Lamp Type and Power	LED 10W
Sampling Method: Test samples randomly selected by client.	

The customer has declared that the equipment load does not vary with ambient temperature.

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PRODUCT 1 RESULTS

Table 2. *Wattage and VA results for model - Verso Basic 10W*

Operating Mode	100mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	10.12	10.03	10.07	10.06	10.05
220	10.16	10.06	10.14	10.09	10.09
230	10.20	10.11	10.19	10.14	10.13
240	10.26	10.16	10.23	10.18	10.22
250	10.22	10.10	10.20	10.16	10.18
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	12.49	12.49	12.47	12.46	12.50
220	12.79	12.76	12.78	12.76	12.79
230	13.08	13.05	13.08	13.06	13.09
240	13.36	13.38	13.34	13.31	13.38
250	14.56	14.67	14.64	14.46	14.56
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.81	0.80	0.81	0.81	0.80
220	0.79	0.79	0.79	0.79	0.79
230	0.78	0.77	0.78	0.78	0.77
240	0.77	0.76	0.77	0.76	0.76
250	0.70	0.69	0.70	0.70	0.70
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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PRODUCT 2 DETAILS

Table 3. Test Sample Details

Product Description	Verso Basic 14W LED Luminaire
Model No.	Verso Basic 14W
Number of Samples	Five
Condition of Samples	Good
Nominal Dimensions	2180mm × 160mm × 23mm
Product Supply Requirement	240V AC 50Hz
Lamp Type and Power	LED 14W
Sampling Method: Test samples randomly selected by client.	

The customer has declared that the equipment load does not vary with ambient temperature.

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PRODUCT 2 RESULTS

Table 4. *Wattage and VA results for model - Verso Basic 14W*

Operating Mode	150mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	13.48	13.53	13.51	13.53	13.45
220	13.51	13.55	13.54	13.57	13.48
230	13.57	13.59	13.58	13.60	13.52
240	13.62	13.64	13.63	13.65	13.56
250	13.68	13.69	13.69	13.75	13.62
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	15.60	15.63	15.67	15.65	15.62
220	15.90	15.92	15.97	15.96	15.90
230	16.21	16.23	16.25	16.25	16.19
240	16.54	16.57	16.61	16.60	16.52
250	16.86	16.86	16.91	16.91	16.86
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.86	0.87	0.86	0.86	0.86
220	0.85	0.85	0.85	0.85	0.85
230	0.84	0.84	0.84	0.84	0.84
240	0.82	0.82	0.82	0.82	0.82
250	0.81	0.81	0.81	0.81	0.81
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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PRODUCT 3 DETAILS

Table 5. Test Sample Details

Product Description	Verso Boost 276W LED Luminaire
Model No.	Verso Boost 276W
Number of Samples	Five
Condition of Samples	Good
Nominal Dimensions	2180mm × 160mm × 23mm
Product Supply Requirement	240V AC 50Hz
Lamp Type and Power	LED 276W
Sampling Method: Test samples randomly selected by client.	

The customer has declared that the equipment load does not vary with ambient temperature.

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PRODUCT 3 RESULTS

Table 6. *Wattage and VA results for model - Verso Boost 276W*

Operating Mode	700mA				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	275.60	275.40	272.50	272.50	271.20
220	275.70	275.20	272.40	272.40	271.10
230	275.80	275.10	272.40	272.30	271.00
240	275.60	275.20	272.40	272.30	270.90
250	275.70	275.30	272.50	272.40	270.90
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	280.20	279.10	276.30	276.40	274.90
220	280.40	279.60	276.90	276.90	275.40
230	280.80	280.20	277.50	277.40	276.00
240	281.10	281.00	278.40	278.30	276.70
250	282.20	281.90	279.40	279.20	277.50
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.98	0.99	0.99	0.99	0.99
220	0.98	0.98	0.98	0.98	0.98
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)			25.0		
PF Leading/Lagging			Leading		

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DEVIATIONS(S) FROM TEST STANDARD

No reported deviations from test standard.

MEASUREMENT UNCERTAINTY

The following expanded uncertainties apply to the measurements shown in the results;

The expanded uncertainties for true power (W) measurement are $\pm 0.25\%$.

The expanded uncertainties for apparent power (VA) measurements are $\pm 0.39\%$ for 5W to 50W and $\pm 0.36\%$ for 51W to 200W.

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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ILLUSTRATIONS



Figure 1. *Product image for model - Verso Basic 10W & Verso Basic 14W*



Figure 2. *Product image for model - Verso Boost 276W*

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