

T e s t R e p o r t

Report No : L15597

Client: : Zeta Specialist Lighting
2 Performance Close
Telford Road
Bicester
Oxfordshire
OX26 4LB

Description : Nano Street Light 30W

Manufacturer : Not Disclosed

Type/Model : Nano Street Light 30W

Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 14.0 (17/12/2014)

Date Testing Started : 01/03/2016

Conclusion : Refer to body of report

Date of Issue : 07/03/2016

Date of Expiry : 06/03/2021

Tested by: M.ALI
Position: Photometric Engineer



Approved: J.ADAMS
Position: Laboratory Supervisor



INTRODUCTION

Zeta Specialist Lighting has supplied the product identified in table 1 for measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 14.0 (17/12/2014).

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	Nano Street Light 30W
Model No.	Nano Street Light 30W
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	610mm x 130mm x 120mm
Product Supply Requirement	240V 50Hz
Lamp Type and Power	LED 30W
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 Nano Street Light 30W

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	27.90	27.84	27.82	27.83	27.80
220	27.90	27.85	27.82	27.83	27.80
230	27.91	27.86	27.83	27.83	27.81
240	27.92	27.88	27.85	27.85	27.83
250	27.95	27.90	27.87	27.87	27.85
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	29.27	29.11	29.12	29.02	29.06
220	29.45	29.29	29.29	29.19	29.23
230	29.67	29.49	29.49	29.38	29.44
240	29.90	29.73	29.73	29.63	29.68
250	30.21	29.98	30.01	29.87	29.95
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.95	0.96	0.96	0.96	0.96
220	0.95	0.95	0.95	0.95	0.95
230	0.94	0.94	0.94	0.95	0.94
240	0.93	0.94	0.94	0.94	0.94
250	0.93	0.93	0.93	0.93	0.93
Ambient Temperature During Test (°C)			24.5		
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