Test Report

Report No	:	L15598
Client:	:	Zeta Specialist Lighting 2 Performance Close Telford Road Bicester Oxfordshire OX26 4LB
Description	:	Nano Street Light 40W
Manufacturer	:	Not Disclosed
Type/Model	:	Nano Street Light 40W
Test Specification	:	Measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 14.0 (17/12/2014)
Date Testing Started	:	29/02/2016
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

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Registered Office: Stafford Park 7, Telford, Shropshire, TF3 3BQ, United Kingdom
Tel: +44 (0) 1952 290907 **Fax:** +44 (0) 1952 290908 **Email:** lab@thelia.org.uk
Web: www.lialab.org.uk
Web: www.lialabcert.org.uk

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 40W
Model No.	Nano Street Light 40W
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 40W
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 40W***

Operating Mode	100%				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	39.74	39.61	39.53	39.48	39.64
220	39.79	39.65	39.58	39.52	39.68
230	39.84	39.70	39.63	39.57	39.73
240	39.91	39.75	39.70	39.63	39.80
250	39.97	39.81	39.78	39.70	39.87
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	41.62	41.49	41.47	41.42	41.56
220	42.00	41.85	41.86	41.80	41.94
230	42.42	42.27	42.30	42.24	42.37
240	42.90	42.73	42.80	42.73	42.86
250	43.43	43.25	43.34	43.27	43.40
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.95	0.95	0.95	0.95	0.95
220	0.95	0.95	0.95	0.95	0.95
230	0.94	0.94	0.94	0.94	0.94
240	0.93	0.93	0.93	0.93	0.93
250	0.92	0.92	0.92	0.92	0.92
Ambient Temperature During Test (°C)	24.0				
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): ±0.69%, Apparent Power (VA): ±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