



Test Report

Report No : L15061
Client: : Zeta Specialist Lighting
2 Performance Close
Telford Road, Bicester, Oxfordshire, OX26 4LB
Description : LED Panels and Class 2 Power Supply's
Manufacturer : Not Disclosed
Type/Model : Various
Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 14.0 (17/12/2014)
Date Testing Started : 09/05/15
Conclusion : Refer to body of Report
Date of Issue : 14/05/15
Date of Expiry : 13/05/20

Tested by: S.RICHARDS
Position: Photometry Engineer



1286

Approved by: J.ADAMS
Position: Laboratory Supervisor

Page 1 of 13

These test results relate only to the unit(s) tested. This Report and any subsequent report(s) may not be reproduced except in full without the written approval of the Testing Laboratory.



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	12V LED Panel type B 2pc c/w Mean Well LED Driver (Model No. LPF-16-12)
Model No.	RX-ALF3528-16
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	1 Strip: L. 300mm; W. 30mm; H. 2mm (2 Strips)
Product Supply Requirement	100-240V AC 50/60Hz
Lamp Type and Power	LED 8W
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.



RESULTS

Table 2. *Wattage and VA results for 12V LED Panel type B 2pc c/w Mean Well LED Driver (Model No. LPF-16-12)*

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	7.89	7.87	8.00	7.83	8.00
220	7.94	7.92	8.05	7.90	8.05
230	7.99	7.97	8.10	7.96	8.11
240	8.05	8.02	8.15	8.02	8.16
250	8.09	8.07	8.20	8.07	8.21
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	8.95	8.88	8.95	8.85	8.93
220	9.13	9.05	9.11	9.01	9.10
230	9.31	9.23	9.28	9.19	9.27
240	9.51	9.42	9.46	9.37	9.46
250	9.71	9.61	9.65	9.56	9.64
Power Factor					
Voltage	Sample Number				
	1	1	1	1	1
210	0.88	0.89	0.89	0.88	0.90
220	0.87	0.88	0.88	0.88	0.88
230	0.86	0.86	0.87	0.87	0.87
240	0.85	0.85	0.86	0.86	0.86
250	0.83	0.84	0.85	0.84	0.85
Ambient Temperature During Test (°C)	25.0				
PF Leading/Lagging	Leading				

Continued on following page

PRODUCT DETAILS

Table 3. Test Sample Details

Product Description	12V LED Panel type B 4pc c/w Mean Well LED Driver (Model No. LPF-16-12)
Model No.	RX-ALF3528-16
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	1 Strip: L. 300mm; W. 30mm; H. 2mm (4 Strips)
Product Supply Requirement	100-240V AC 50/60Hz
Lamp Type and Power	LED 13W
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.



RESULTS

Table 4. *Wattage and VA results for 12V LED Panel type B 4pc c/w Mean Well LED Driver (Model No. LPF-16-12)*

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	12.77	12.57	12.87	13.02	13.15
220	12.84	12.63	12.93	13.06	13.20
230	12.89	12.68	13.00	13.10	13.24
240	12.96	12.72	13.05	13.13	13.28
250	12.98	12.77	13.10	13.18	13.32
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	13.49	13.29	13.56	13.70	13.81
220	13.64	13.44	13.71	13.84	13.94
230	13.79	13.59	13.87	13.96	14.07
240	13.96	13.75	14.03	14.11	14.22
250	14.11	13.91	14.20	14.28	14.38
Power Factor					
Voltage	Sample Number				
	1	1	1	1	1
210	0.95	0.95	0.95	0.95	0.95
220	0.94	0.94	0.94	0.94	0.95
230	0.93	0.93	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	0.93
Ambient Temperature During Test (°C)	25.0				
PF Leading/Lagging	Leading				

Continued on following page

PRODUCT DETAILS

Table 5. Test Sample Details

Product Description	12V LED Panel type B 6pc c/w Mean Well LED Driver (Model No. LPF-25-12)
Model No.	RX-ALF3528-16
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	1 Strip: L. 300mm; W. 30mm; H. 2mm (6 Strips)
Product Supply Requirement	100-240V AC 50/60Hz
Lamp Type and Power	LED 17W
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.



Table 6. *Wattage and VA results for 12V LED Panel type B 6pc c/w Mean Well LED Driver (Model No. LPF-25-12)*

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	15.45	16.65	17.02	16.25	16.84
220	15.52	16.68	17.03	16.31	16.89
230	15.56	16.71	17.05	16.37	16.92
240	15.60	16.74	17.07	16.40	16.96
250	15.64	16.78	17.10	16.44	17.00
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	17.74	18.87	19.33	18.31	18.81
220	18.01	19.10	19.56	18.57	19.05
230	18.29	19.34	19.80	18.85	19.28
240	18.56	19.59	20.06	19.12	19.57
250	18.85	19.86	20.37	19.39	19.86
Power Factor					
Voltage	Sample Number				
	1	1	1	1	1
210	0.87	0.88	0.88	0.89	0.90
220	0.86	0.87	0.87	0.88	0.89
230	0.85	0.86	0.86	0.87	0.88
240	0.84	0.85	0.85	0.86	0.87
250	0.83	0.84	0.84	0.85	0.86
Ambient Temperature During Test (°C)	25.0				
PF Leading/Lagging	Leading				

Continued on following page

PRODUCT DETAILS

Table 7. Test Sample Details

Product Description	12V LED Panel type B 8pc c/w Mean Well LED Driver (Model No. LPF-25-12)
Model No.	RX-ALF3528-16
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	1 Strip: L. 300mm; W. 30mm; H. 2mm (8 Strips)
Product Supply Requirement	100-240V AC 50/60Hz
Lamp Type and Power	LED 18W
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.



Table 8. Wattage and VA results for 12V LED Panel type B 8pc c/w Mean Well LED Driver (Model No. LPF-25-12)

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	18.07	18.22	17.94	18.05	18.46
220	18.10	18.25	17.98	18.07	18.48
230	18.13	18.27	18.03	18.10	18.49
240	18.14	18.30	18.07	18.13	18.52
250	18.18	18.32	18.12	18.15	18.54
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	20.48	20.24	20.33	19.64	20.05
220	20.73	20.45	20.59	19.84	20.23
230	20.99	20.67	20.86	20.04	20.42
240	21.25	20.91	21.14	20.26	20.64
250	21.58	21.17	21.48	20.52	20.89
Power Factor					
Voltage	Sample Number				
	1	1	1	1	1
210	0.88	0.90	0.88	0.92	0.92
220	0.87	0.89	0.87	0.91	0.91
230	0.86	0.88	0.86	0.90	0.91
240	0.85	0.88	0.85	0.89	0.90
250	0.84	0.87	0.84	0.88	0.89
Ambient Temperature During Test (°C)	25.0				
PF Leading/Lagging	Leading				

Continued on following page

DEVIATION(S) FROM TEST STANDARD

No reported deviations from test standard.

MEASUREMENT UNCERTAINTY

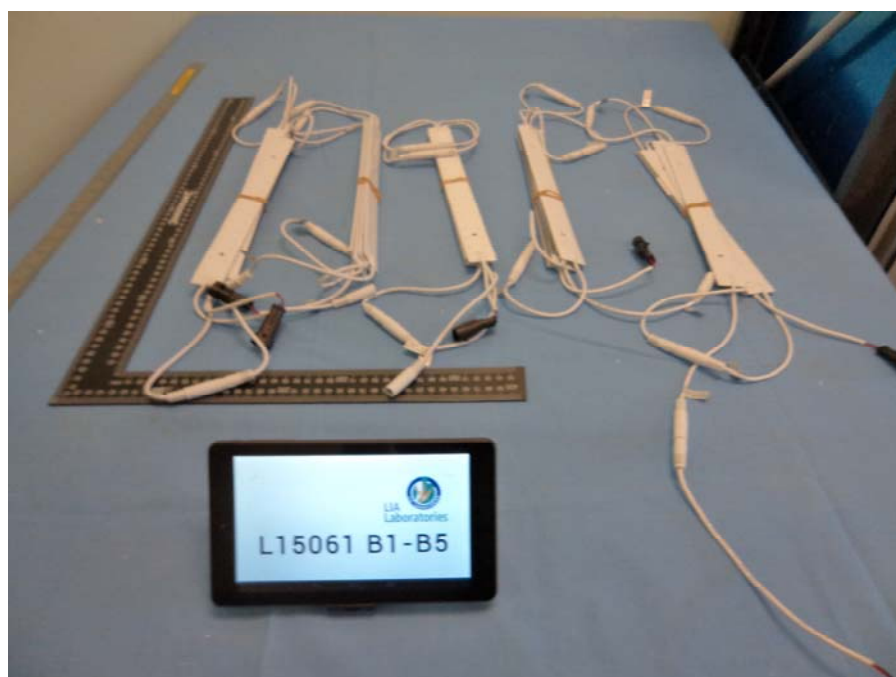
The following expanded uncertainties apply to the measurements shown in the results;

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.

Continued on following page

ILLUSTRATIONS



Continued on following page

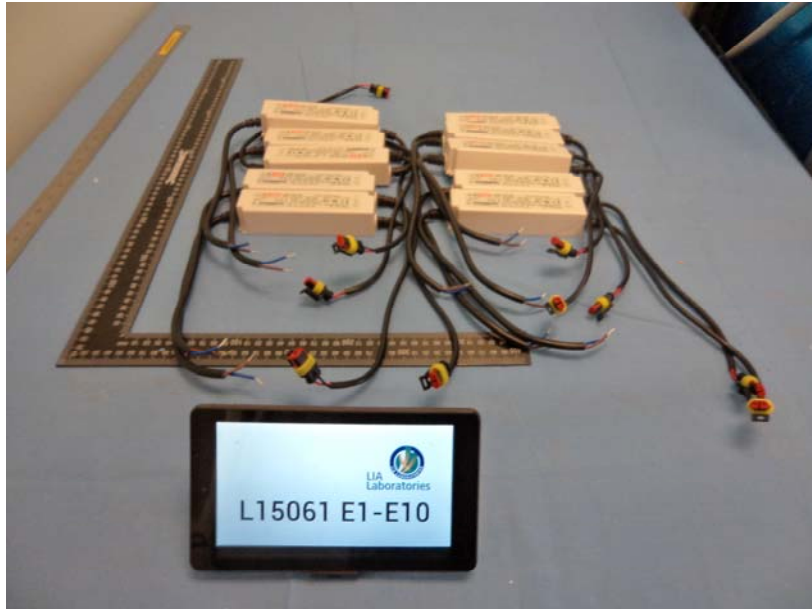
This page is to be read in conjunction with the first page of this report

ILLUSTRATIONS



Continued on following page

ILLUSTRATIONS



End