



Test Report

Report No : L14135 Amd 1
Client: : Ark Lighting Ltd
McGann House
Chesham Rd
Barnsley, South Yorkshire, S70 2NT
Description : "Alux – FL30" and "Retrofit" Luminaires
Manufacturer : Not Disclosed
Type/Model : See Annex 1
Test Specification : Measurement of power consumption in accordance with the
"Unmetered Supplies Operational Information" document –
Version 12.0 (29/11/12)
Date Tested : 27/03/14
Conclusion : Refer to body of Report
Date of Issued : 15/04/14
Date of Expiry : 01/04/19

Tested by: C.LOVEITT
Position: Laboratory Technician




Approved by: K.GOVINDEN
Position: Technical Manager



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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

Note: This amendment 1 is a client request to add additional products Alux and retrofit to this report

Ark 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 12.0 (29/11/12).

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	"Alux – FL30" and "Retrofit" Luminaires
Model No.	See Annex 1
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	Not Applicable
Product Supply Requirement	240Vac
Lamp Type and Power	LED 700mA, LED 1000mA, LED 350mA
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

RESULTS

Table 2. Wattage and VA results for LED Module retrofit tray 36M LED 700mA

Watts	Single mode				
Voltage	Sample Number				
	1	2	3	4	5
210	11.87	11.59	11.60	11.70	11.71
220	12.04	11.77	11.78	11.85	11.88
230	12.22	11.92	11.94	12.00	12.04
240	12.39	12.06	12.13	12.19	12.23
250	12.54	12.29	12.35	12.39	12.43

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	24.68	23.97	24.01	23.89	23.94
220	25.19	24.55	24.91	24.79	24.80
230	26.31	25.19	25.42	25.61	25.63
240	27.17	25.76	26.11	26.34	26.01
250	27.99	27.16	27.73	27.47	27.27

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Table 3. Wattage and VA results for LED Module retrofit tray 36H LED 1000mA

Watts	Single mode				
Voltage	Sample Number				
	1	2	3	4	5
210	16.37	16.45	16.46	16.32	16.27
220	16.54	16.60	16.64	16.42	16.40
230	16.66	16.72	16.79	16.58	16.54
240	16.80	16.85	16.94	16.73	16.73
250	16.97	17.01	17.12	16.91	16.89

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	30.21	30.23	30.20	29.82	29.91
220	30.79	30.79	30.82	30.57	30.35
230	31.28	31.29	31.36	30.99	30.94
240	31.59	31.57	31.68	31.33	31.31
250	32.39	32.30	32.43	32.05	31.95

Table 4. Wattage and VA results for LED Module retrofit tray 72M LED 700mA

Watts	Single Mode				
Voltage	Sample Number				
	1	2	3	4	5
210	20.70	20.28	20.09	20.40	20.42
220	20.86	20.39	20.23	20.52	20.55
230	20.96	20.58	20.38	20.68	20.69
240	21.15	20.76	20.57	20.82	20.87
250	21.31	20.90	20.72	20.98	21.04

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	39.06	38.11	37.06	37.70	37.80
220	40.63	39.12	37.39	37.81	38.44
230	41.09	39.68	38.39	38.81	39.25
240	41.56	40.62	39.91	39.57	39.81
250	42.62	40.82	39.81	40.37	41.07

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Table 5. Wattage and VA results for LED Module retrofit tray 72H LED 1000mA

Watts		Single mode				
Voltage	Sample Number					
	1	2	3	4	5	
210	29.40	29.87	30.41	29.36	29.76	
220	29.49	29.92	30.44	29.80	29.74	
230	29.60	29.99	30.47	30.00	29.78	
240	29.74	30.10	30.55	30.04	29.81	
250	29.91	30.24	30.66	30.24	29.91	

VA		Single mode				
Voltage	Sample Number					
	1	2	3	4	5	
210	51.30	52.00	52.92	50.22	51.69	
220	51.53	52.21	53.06	51.32	51.80	
230	52.23	52.89	53.65	52.10	52.44	
240	52.83	53.48	54.18	52.79	52.91	
250	53.54	54.17	54.80	53.62	53.40	

Table 6. Wattage and VA results for LED Module retrofit tray 108L LED 350mA

Watts		Single Mode				
Voltage	Sample Number					
	1	2	3	4	5	
210	14.81	14.72	14.74	14.66	14.78	
220	14.83	14.74	14.76	14.68	14.81	
230	14.86	14.77	14.79	14.70	14.85	
240	14.90	14.80	14.82	14.76	14.88	
250	14.93	14.83	14.85	14.79	14.93	

VA		Single Mode				
Voltage	Sample Number					
	1	2	3	4	5	
210	16.51	16.39	16.38	16.30	16.45	
220	16.77	16.64	16.63	16.55	16.73	
230	17.06	16.94	16.91	16.85	17.04	
240	17.42	17.29	17.26	17.22	17.40	
250	17.74	17.61	17.56	17.55	17.72	

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Table 7. Wattage and VA results for LED Module retrofit tray 108M LED 700mA

Voltage	Sample Number				
	1	2	3	4	5
210	29.57	28.85	28.46	29.02	29.09
220	29.77	29.05	28.60	29.41	29.22
230	29.80	20.07	28.74	29.24	29.34
240	29.94	29.20	28.86	29.38	29.48
250	30.07	29.31	29.14	29.54	29.61

VA

Voltage	Sample Number				
	1	2	3	4	5
210	52.95	51.46	50.85	51.36	52.70
220	53.30	51.70	51.69	52.18	53.15
230	53.70	52.07	52.53	52.91	53.55
240	54.27	52.67	52.75	53.16	54.38
250	54.82	53.14	54.56	54.59	54.89

Table 8. Wattage and VA results for LED Module retrofit tray 108H LED 1000 mA

Voltage	Sample Number				
	1	2	3	4	5
210	43.86	44.41	43.83	44.63	44.40
220	44.00	44.56	43.98	44.70	44.47
230	44.13	44.70	44.12	44.85	44.63
240	44.22	44.81	44.21	44.96	44.74
250	44.39	44.97	44.38	45.11	44.91

VA

Voltage	Sample Number				
	1	2	3	4	5
210	74.52	75.25	74.65	80.42	80.40
220	74.94	75.73	75.07	77.63	77.54
230	75.21	75.97	75.38	78.86	78.76
240	76.13	76.98	76.27	79.36	79.25
250	76.84	77.58	77.02	79.42	79.36

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Table 9. Wattage and VA results for LED Module ALUX-FL30

Watts		Single Mode				
Voltage	Sample Number					
	1	2	3	4	5	
210	35.92	35.75	35.72	35.67	35.62	
220	35.90	35.72	35.69	35.67	35.60	
230	35.88	35.70	35.67	35.64	35.57	
240	35.87	35.68	35.65	35.64	35.55	
250	35.86	35.67	35.63	36.45	35.53	

VA		Sample Number				
Voltage	Sample Number					
	1	2	3	4	5	
210	36.45	36.29	36.25	36.22	36.12	
220	36.48	36.31	36.27	36.27	36.12	
230	36.53	36.36	36.31	36.30	36.18	
240	36.59	36.42	36.37	36.39	36.21	
250	36.67	36.50	36.43	36.45	36.29	

DEVIATION(S) FROM TEST STANDARD

No reported deviations from test standard.

MEASUREMENT UNCERTAINTY

Equipment number 280 uncertainty of measurement for AC voltage +/-0.01%

Equipment number 280 uncertainty of measurement for AC current +/-0.03%

Equipment number 280 uncertainty of measurement for AC power +/-0.08%

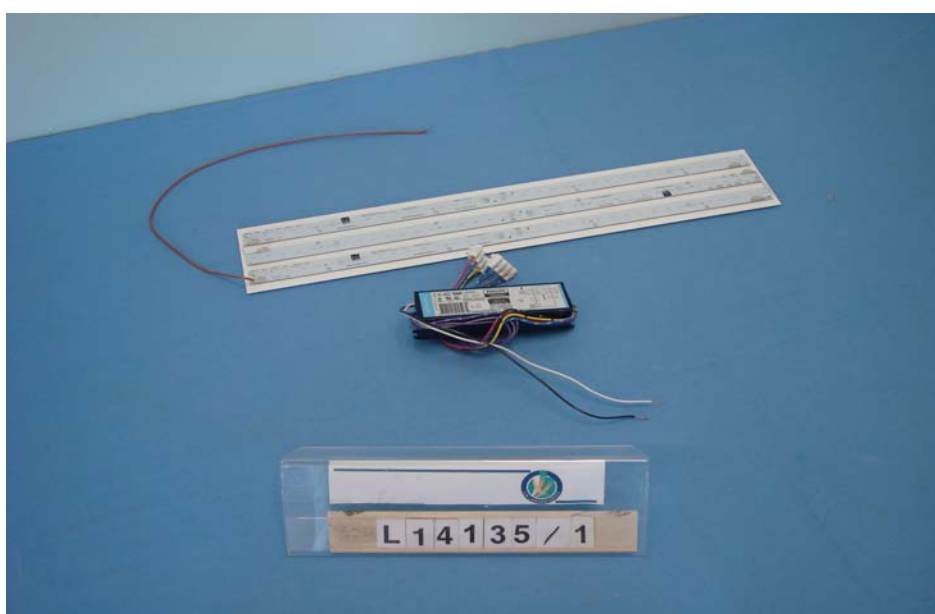
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ILLUSTRATION

Figure 1. *Image of tested samples*



Figure 2. *Image of tested samples*



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Figure 3. Image of tested samples

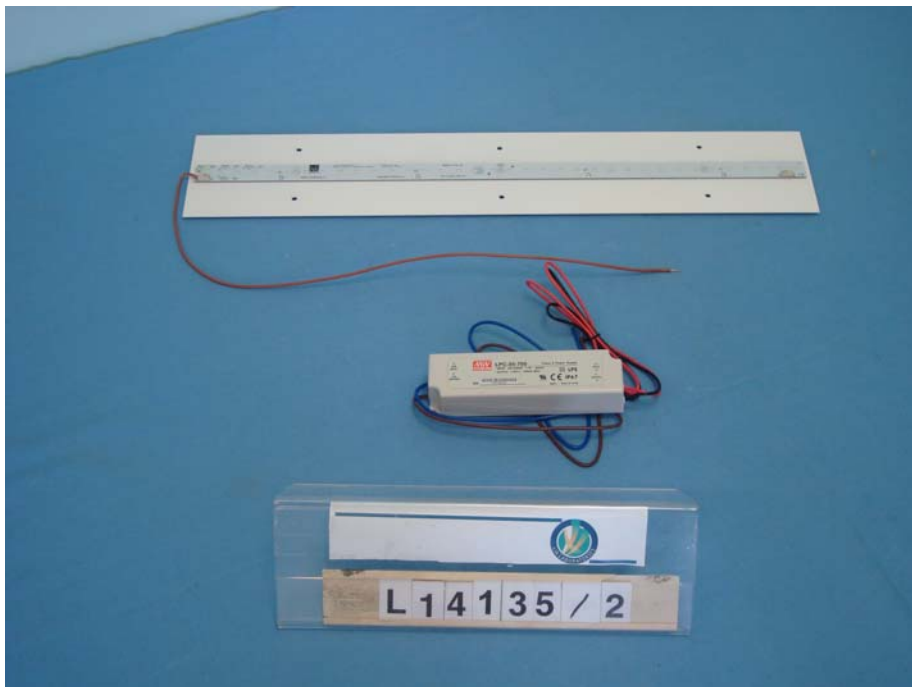


Figure 3. Image of tested samples



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Annex 1

No	Model No	Description of Articles
5	LED Module retrofit tray 72M-H	LPC-35-700 and APC-35- 1050 drivers
5	LED Module retrofit tray 108MLH	Xitanium 40 Prog 350Ma, LPC-35-700 and LPC-60- 1050
5	LED Module retrofit tray 36M-H	LPC-35-700 and APG-25- 1050 driver
5	ALUX –FL30	700mA

End