



Test Report

Report No : L14135
Client: : Ark Lighting Ltd
McGann House
Chesham Rd
Barnsley, South Yorkshire, S70 2NT
Description : Xitanium and APC Drivers
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 : 19/03/14
Conclusion : Refer to body of Report
Date of Issued : 24/03/14
Date of Expiry : 23/03/19

Tested by: B.ADAMS
Position: Laboratory Technician

Approved by: K.GOVINDEN
Position: Technical Manager




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INTRODUCTION

Ark lighting 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	Xitanium and APC Drivers
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	40W and 75W
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

RESULTS

Table 3. Wattage and VA results

Watts

LA3 LED Module Xitanium 40W – 350mA

Voltage	Sample Number				
	1	2	3	4	5
210	14.74	14.60	14.68	14.67	14.79
220	14.76	14.63	14.70	14.68	14.80
230	14.79	14.66	14.73	14.71	14.82
240	14.83	14.70	14.78	14.75	14.85
250	14.88	14.75	14.83	14.79	14.89

VA

Voltage	Sample Number				
	1	2	3	4	5
210	16.39	16.20	16.31	16.28	16.45
220	16.64	16.45	16.56	16.54	16.70
230	16.96	16.76	16.88	16.85	17.02
240	17.34	17.13	17.26	17.23	17.40
250	17.65	17.43	17.56	17.51	17.68

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Table 4. Wattage and VA results

Voltage	Sample Number				
	1	2	3	4	5
210	20.21	20.19	20.41	20.20	20.07
220	20.06	20.03	20.26	21.67	19.97
230	20.06	20.02	20.26	20.14	20.00
240	20.08	20.04	20.29	20.18	20.03
250	20.12	20.07	20.32	20.22	20.06

VA

Voltage	Sample Number				
	1	2	3	4	5
210	21.66	21.59	21.85	21.57	21.45
220	21.64	21.61	21.86	21.67	21.55
230	21.86	21.82	22.08	21.94	21.80
240	22.16	22.12	22.38	22.27	22.13
250	22.48	22.42	22.70	22.53	22.37

Table 5. Wattage and VA results

Voltage	Sample Number				
	1	2	3	4	5
210	27.71	27.77	27.60	27.78	27.70
220	27.68	27.76	27.57	27.76	27.68
230	27.67	27.75	27.56	27.74	27.66
240	27.67	27.76	27.56	27.74	27.66
250	27.68	27.77	27.58	27.75	27.67

VA

Voltage	Sample Number				
	1	2	3	4	5
210	28.87	28.91	28.73	28.95	28.85
220	29.02	29.07	28.87	29.11	29.01
230	29.22	29.28	29.06	29.29	29.19
240	29.43	29.48	29.26	29.51	29.41
250	29.73	29.78	29.55	29.79	29.67

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Table 6. Wattage and VA results

Watts		LED Module LA6 Xitanium 75W – 350mA				
Voltage	Sample Number					
	1	2	3	4	5	
210	28.45	28.30	28.39	28.28	28.08	
220	28.39	28.21	28.33	28.24	28.02	
230	28.40	28.19	28.34	28.26	28.04	
240	28.44	28.21	28.38	28.31	28.07	
250	28.51	28.27	28.41	28.40	28.15	

VA						
Voltage	Sample Number					
	1	2	3	4	5	
210	30.88	30.84	30.91	30.79	30.58	
220	31.22	31.16	31.26	31.18	30.96	
230	31.65	31.59	31.71	31.67	31.46	
240	32.26	32.20	32.32	32.20	31.99	
250	32.78	32.73	32.86	32.84	32.62	

Table 7. Wattage and VA results

Watts		LED Module LA6 Xitanium 75W – 500mA				
Voltage	Sample Number					
	1	2	3	4	5	
210	39.15	38.55	39.25	39.03	38.43	
220	38.98	38.39	38.94	39.01	38.40	
230	38.95	38.37	38.89	38.98	38.39	
240	38.97	38.39	38.90	39.03	38.44	
250	38.93	38.34	38.82	39.09	38.50	

VA		Sample Number				
Voltage	Sample Number					
	1	2	3	4	5	
210	41.07	40.57	41.23	40.92	40.40	
220	41.22	40.74	41.26	41.24	40.73	
230	41.57	41.11	41.60	41.61	41.13	
240	42.07	41.64	42.11	42.06	41.60	
250	42.40	41.98	42.42	42.57	42.12	

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Table 8. Wattage and VA results

Watts		LA6 LED Module Xitanium 75W – 700mA				
Voltage	Sample Number					
	1	2	3	4	5	
210	53.02	52.33	52.86	53.56	52.82	
220	52.93	52.25	52.76	53.32	52.72	
230	52.86	52.18	52.68	53.27	52.68	
240	52.88	52.19	52.69	53.25	52.67	
250	52.90	55.21	52.71	53.28	52.72	

VA						
Voltage	Sample Number					
	1	2	3	4	5	
210	54.63	53.94	54.45	54.98	54.43	
220	54.83	54.14	54.64	55.13	54.60	
230	55.09	54.41	54.90	55.39	54.89	
240	55.45	54.77	55.25	55.70	55.22	
250	55.91	55.22	55.70	56.12	55.66	

Table 9. Wattage and VA results

Watts		LA6 LED Module Xitanium 75W – 1000mA				
Voltage	Sample Number					
	1	2	3	4	5	
210	74.53	74.30	73.66	75.14	74.33	
220	74.38	74.14	73.53	74.91	74.09	
230	74.22	73.96	73.39	74.82	73.98	
240	74.17	73.93	73.36	74.82	73.98	
250	74.19	73.95	73.39	74.82	74.01	

VA						
Voltage	Sample Number					
	1	2	3	4	5	
210	75.77	75.56	74.92	76.32	75.56	
220	75.86	75.64	75.03	76.35	75.58	
230	75.98	75.75	75.17	76.49	75.72	
240	76.22	76.00	75.43	76.79	76.02	
250	76.58	76.35	75.79	77.11	76.38	

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Table 10. Wattage and VA results

Watts	LED Module LR1 Xitanium 40W – 350mA				
Voltage	Sample Number				
	1	2	3	4	5
210	16.92	17.04	17.06	17.02	17.15
220	16.92	17.04	17.05	17.01	17.14
230	16.93	17.05	17.07	16.99	17.11
240	16.97	17.08	17.10	17.01	17.13
250	17.03	17.14	17.12	17.04	17.15

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	18.42	18.57	18.57	18.49	18.64
220	18.66	18.81	18.81	18.70	18.86
230	18.92	19.08	19.07	18.94	19.10
240	19.21	19.38	19.37	19.22	19.37
250	19.56	19.71	19.70	19.57	19.73

Table 11. Wattage and VA results

Watts	LED Module LR1 Xitanium 40W – 500mA				
Voltage	Sample Number				
	1	2	3	4	5
210	23.23	23.30	23.51	23.32	23.31
220	23.14	23.18	23.41	23.20	23.18
230	23.14	23.18	23.41	23.20	23.18
240	23.16	23.18	23.42	23.20	23.18
250	23.20	23.21	23.46	23.20	23.19

VA					
Voltage	Sample Number				
	1	2	3	4	5
210	24.49	24.56	24.79	24.60	24.59
220	24.60	24.65	24.89	24.68	24.67
230	24.83	24.87	25.11	24.88	24.87
240	25.10	25.11	25.37	25.14	25.13
250	25.43	25.41	25.66	25.37	25.37

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Table 12. Wattage and VA results

Watts

LED Module LR1 Xitanium 75W – 800mA

Voltage	Sample Number				
	1	2	3	4	5
210	37.88	37.67	38.19	38.36	37.84
220	37.86	37.60	38.13	38.29	37.76
230	37.87	37.58	38.10	38.31	37.77
240	37.92	37.60	38.11	38.34	37.80
250	37.98	37.63	38.15	38.41	37.84

VA

Voltage	Sample Number				
	1	2	3	4	5
210	39.88	39.68	38.19	40.37	39.85
220	40.24	40.01	40.42	40.66	40.14
230	40.63	40.37	40.75	41.08	40.56
240	41.14	40.85	41.21	41.56	41.04
250	41.65	41.34	41.68	42.10	41.56

Table 14. Wattage and VA results

Watts

LED Module LR1 Xitanium 75W – 1000mA

Voltage	Sample Number				
	1	2	3	4	5
210	47.20	46.84	47.03	47.08	46.78
220	47.04	46.66	46.86	46.94	46.66
230	46.93	46.54	46.70	46.84	46.58
240	46.89	46.50	46.69	46.87	46.60
250	46.88	46.49	46.67	46.88	46.63

VA

Voltage	Sample Number				
	1	2	3	4	5
210	48.93	48.58	48.76	48.73	48.50
220	49.08	48.73	48.91	48.91	48.70
230	49.33	48.96	49.13	49.14	48.96
240	49.74	49.37	49.54	49.55	49.39
250	50.10	49.71	49.88	49.97	49.84

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DEVIATION(S) FROM TEST STANDARD

No reported deviations from test standard.

MEASUREMENT UNCERTAINTY

Equipment number 279 uncertainty of measurement for AC voltage $\pm 0.02\%$

Equipment number 279 uncertainty of measurement for power $\pm 0.2\%$

Equipment number 279 uncertainty of measurement for power $\pm 0.25\%$

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ILLUSTRATIONS

LA6



LA3

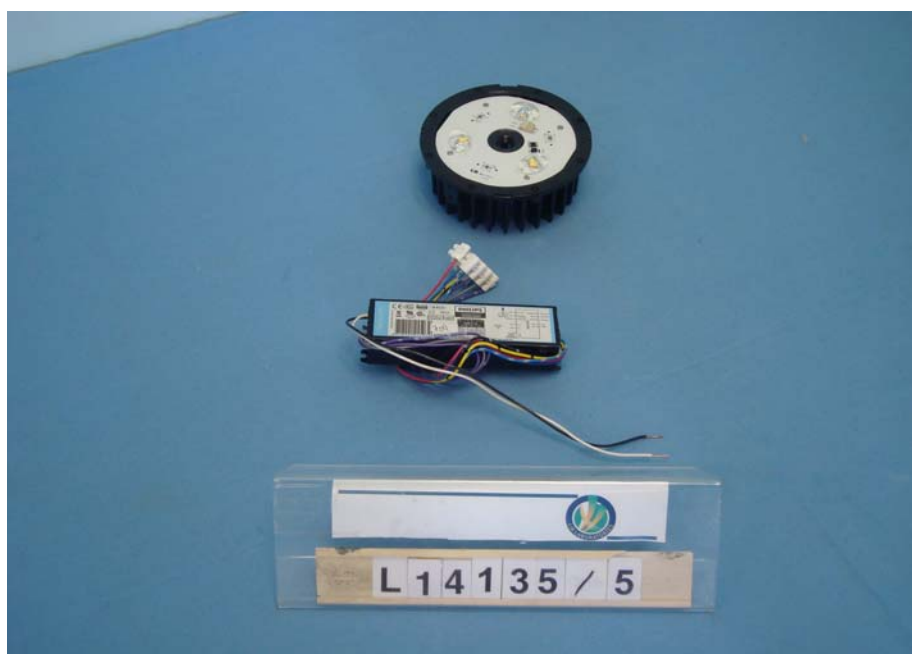


Figure 1. *Image of tested samples*

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ILLUSTRATIONS (Continued)

LR1



Annex 1

No	Model No	Description of articles
5	LED Module LA3	Driver Xitanium 40w Prog
5	LED Module LA6	Driver Xitanium 75w Prog
5	LED Module LR1	Driver Xitanium 40w Prog, Xitanium 75w Prog

End