Test Report

Report No	:	L16591F Amd 1
Client:	:	Ark Lighting Ltd McGann House Chesham Rd Barnsley South Yorkshire S70 2NT
Description	:	Tekk Street Luminaire 64 LED
Manufacturer	:	Not disclosed
Type/Model	:	LE64R
Test Specification	:	Measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 17.0 (15/03/2017)
Date Testing Started	:	12/072017
Conclusion	:	Refer to body of report
Date of Issue	:	10/11/2017
Date of Expiry	:	24/08/2022

Tested by: **T. MALIK**
Position: Operations Manager

Approved: **J. ADAMS**
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Note: This Amendment 1 includes the addition of Tables 5, 6.

INTRODUCTION

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 17.0 (15/03/2017).

PRODUCT DETAILS

Table 1. *Test Sample Details*

Product Description	Tekk Street Luminaire 64 LED
Model No.	LE64R
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	L645mm x W330mm x H122mm
Product Supply Requirement	220-240V AC, 50/60Hz
Lamp Type and Power	LED, Various
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*** **LE64R 700mA**

Operating Mode	100%, (Dali Code: 254)				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	138.48	140.40	140.83	141.80	137.67
220	137.45	139.38	139.68	140.39	137.39
230	137.09	139.09	139.25	140.04	137.37
240	136.99	139.20	139.21	140.01	137.38
250	137.07	139.31	139.27	140.07	137.50
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	145.64	147.47	147.78	148.67	144.84
220	145.93	147.75	147.94	148.57	145.85
230	146.96	148.80	148.85	149.52	147.16
240	148.35	150.37	150.27	150.95	148.63
250	150.05	152.08	151.93	152.58	150.35
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.95	0.95	0.95	0.95	0.95
220	0.94	0.94	0.94	0.94	0.94
230	0.93	0.93	0.94	0.94	0.93
240	0.92	0.93	0.93	0.93	0.92
250	0.91	0.92	0.92	0.92	0.91
Ambient Temperature During Test (°C)	25				
PF Leading/Lagging	Leading				

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Table 3. ***Wattage and VA results for*** **LE64R 700mA**

Operating Mode	75%, (Dali Code: 244)				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	103.32	105.84	105.67	105.73	104.96
220	103.50	106.01	105.83	105.86	105.12
230	103.68	106.21	106.04	105.88	105.31
240	103.88	106.40	106.25	106.40	105.51
250	104.07	106.59	106.44	106.61	105.68
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	111.92	114.25	114.00	113.99	113.35
220	113.46	115.76	115.49	115.43	114.85
230	115.21	117.46	117.19	116.98	116.54
240	117.06	119.28	119.04	119.05	118.36
250	119.08	121.25	121.01	121.03	120.31
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.92	0.93	0.93	0.93	0.93
220	0.91	0.92	0.92	0.92	0.92
230	0.90	0.90	0.90	0.91	0.90
240	0.89	0.89	0.89	0.89	0.89
250	0.87	0.88	0.88	0.88	0.88
Ambient Temperature During Test (°C)	26.1				
PF Leading/Lagging	Leading				

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Table 4. ***Wattage and VA results for*** **LE64R 700mA**

Operating Mode	50%, (Dali Code: 230)				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	72.49	73.09	73.34	73.64	73.14
220	72.36	73.06	73.25	72.99	73.41
230	72.37	73.15	73.28	73.17	73.72
240	72.52	73.36	73.50	73.73	74.07
250	72.79	73.67	73.82	73.82	74.45
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	82.59	82.37	83.52	83.80	83.35
220	84.13	84.99	85.08	84.74	85.19
230	85.96	86.85	86.86	86.62	87.25
240	87.96	88.92	88.96	89.09	89.56
250	90.35	91.34	91.37	91.20	92.09
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.88	0.89	0.88	0.88	0.88
220	0.86	0.86	0.86	0.86	0.86
230	0.84	0.84	0.84	0.84	0.84
240	0.82	0.83	0.83	0.83	0.83
250	0.81	0.81	0.81	0.81	0.81
Ambient Temperature During Test (°C)	25				
PF Leading/Lagging	Leading				

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Table 5. ***Wattage and VA results for*** **LE64R 700mA**

Operating Mode	25%, (Dali Code: 204)				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	38.63	39.18	39.31	39.62	39.17
220	39.62	39.17	39.29	39.23	39.15
230	38.62	39.18	39.28	39.40	39.11
240	38.64	39.17	39.27	39.93	39.03
250	38.37	38.92	39.01	39.69	38.94
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	60.42	59.58	59.51	58.97	59.85
220	65.62	65.05	65.00	64.05	65.18
230	70.76	70.60	70.46	69.76	70.59
240	74.83	75.49	75.66	77.34	75.91
250	78.87	79.74	79.58	81.78	79.57
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.64	0.66	0.66	0.67	0.65
220	0.60	0.60	0.60	0.61	0.60
230	0.55	0.55	0.56	0.56	0.55
240	0.52	0.52	0.52	0.52	0.51
250	0.49	0.49	0.49	0.49	0.49
Ambient Temperature During Test (°C)	25				
PF Leading/Lagging	Leading				

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Table 6. ***Wattage and VA results for*** **LE64R 700mA**

Operating Mode	Minimum, (ALO: 10%)				
Watts					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	24.64	24.52	24.57	24.63	24.42
220	24.58	24.17	24.20	24.40	24.10
230	24.20	24.07	24.12	24.22	24.03
240	24.06	23.95	23.87	24.11	23.95
250	23.76	23.66	23.59	23.76	23.58
VA					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	54.00	54.55	54.21	53.96	54.57
220	57.51	56.28	56.63	57.23	56.47
230	59.41	59.20	60.10	59.93	59.91
240	62.87	62.91	63.44	63.27	63.42
250	64.55	65.14	65.36	65.68	66.49
Power Factor					
Voltage	**Sample Number**				
	1	**2**	**3**	**4**	**5**
210	0.46	0.45	0.45	0.46	0.45
220	0.43	0.43	0.43	0.43	0.43
230	0.41	0.41	0.40	0.40	0.40
240	0.38	0.38	0.38	0.38	0.38
250	0.37	0.36	0.36	0.36	0.35
Ambient Temperature During Test (°C)	23.7				
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***

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