

## T e s t   R e p o r t

**Report No** : L15599 Amd 1

**Client:** : Venture Lighting Europe Ltd  
Unit 11c, Sills Road  
Willow Farm Business Park  
Castle Donington,  
Derby  
DE74 2US

**Description** : Westminster Engines

**Manufacturer** : Venture Lighting Europe Ltd

**Type/Model** : Refer to body of report

**Test Specification** : Measurement of power consumption in accordance with the  
'Unmetered Supplies Operational Information Document' –  
Version 14.0 (17/12/2014)

**Date Testing Started** : 20/02/2016

**Conclusion** : Refer to body of report

**Date of Issue** : 24/02/2016

**Date of Expiry** : 22/02/2021

**Tested by:** M. ALI  
**Position:** Photometry Engineer



**Approved:** J.ADAMS  
**Position:** Laboratory Supervisor



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**Note** – This amendment 1 is for the correction of values for sample Westminster Engine ENG014 - DRV061 + CMP014 + CMP015

## **INTRODUCTION**

Venture Lighting Europe Ltd has supplied the product identified in tables 1, 8, 15 and 22, 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	Westminster Engine ENG013 – DRV040 & 2 x CMP014
Model No.	ENG013
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	LED - H:190mm W:60mm L:58mm Driver - H:150mm W:70mm L:35mm
Product Supply Requirement	220-240V, 50/60Hz
Lamp Type and Power	75W LED
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 Westminster Engine ENG013 – DRV040 + 2 x CMP014**

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	79.56	79.35	79.97	79.12	80.13
220	79.39	79.15	79.81	79.03	79.99
230	79.28	79.02	79.70	78.96	79.89
240	79.19	78.94	79.63	78.90	79.81
250	79.13	78.84	79.55	78.86	79.74
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	80.54	80.13	80.90	81.00	81.01
220	80.57	80.12	80.94	81.15	81.05
230	80.68	80.20	81.06	81.36	81.17
240	80.85	80.35	81.22	81.60	81.33
250	81.05	80.53	81.43	81.92	81.53
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.99	0.99	0.99	0.98	0.99
220	0.99	0.99	0.99	0.97	0.99
230	0.98	0.99	0.98	0.97	0.98
240	0.98	0.98	0.98	0.97	0.98
250	0.98	0.98	0.98	0.96	0.98
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 3. Wattage and VA results for Westminster Engine ENG013 – DRV040 + 2 x CMP014**

Operating Mode	80%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	62.78	62.69	64.28	64.08	64.28
220	62.77	62.66	64.26	64.05	64.27
230	62.77	62.65	64.25	64.03	64.26
240	62.77	62.64	64.25	64.02	64.27
250	62.77	62.63	64.24	64.01	64.25
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	64.08	63.74	65.50	66.40	65.43
220	64.30	63.93	65.71	66.66	65.64
230	64.55	64.16	65.95	66.96	65.87
240	64.84	64.43	66.24	67.28	66.16
250	65.15	64.73	66.54	67.64	66.44
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.98	0.98	0.98	0.97	0.98
220	0.98	0.98	0.98	0.96	0.98
230	0.97	0.98	0.97	0.96	0.98
240	0.97	0.97	0.97	0.95	0.97
250	0.96	0.97	0.97	0.95	0.97
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 4. Wattage and VA results for Westminster Engine ENG013 – DRV040 + 2 x CMP014**

Operating Mode	60%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	48.52	47.86	48.70	47.87	48.54
220	48.57	47.90	48.74	47.89	48.58
230	48.63	47.95	48.78	47.91	48.63
240	48.96	48.27	49.13	47.93	49.16
250	48.98	48.30	49.15	47.96	49.17
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	50.18	49.23	50.32	50.95	50.07
220	50.49	49.53	50.67	51.32	50.38
230	50.86	49.86	51.01	51.72	50.75
240	51.52	50.51	51.70	52.16	51.60
250	51.91	50.91	52.11	52.64	51.99
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.97	0.97	0.97	0.94	0.97
220	0.96	0.97	0.96	0.93	0.96
230	0.96	0.96	0.96	0.93	0.96
240	0.95	0.96	0.95	0.92	0.95
250	0.94	0.95	0.94	0.91	0.95
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 5. Wattage and VA results for Westminster Engine ENG013 – DRV040 + 2 x CMP014**

Operating Mode	40%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	33.13	32.82	34.39	32.76	35.11
220	33.21	32.90	34.46	32.81	35.17
230	33.28	32.97	34.52	32.87	35.25
240	33.59	33.04	34.58	32.93	35.31
250	33.42	33.11	34.64	33.00	35.37
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	35.43	34.72	36.64	37.05	37.20
220	35.86	35.13	37.07	37.56	37.60
230	36.33	35.58	37.52	38.11	38.05
240	36.84	36.08	38.03	38.70	38.52
250	37.41	36.63	38.59	39.33	39.05
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.94	0.95	0.94	0.88	0.94
220	0.93	0.94	0.93	0.87	0.94
230	0.92	0.93	0.92	0.86	0.93
240	0.91	0.92	0.91	0.85	0.92
250	0.89	0.90	0.90	0.84	0.91
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 6. Wattage and VA results for Westminster Engine ENG013 – DRV040 + 2 x CMP014**

Operating Mode	20%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	16.57	17.24	18.16	17.25	18.01
220	16.71	17.38	18.30	17.35	18.15
230	16.92	17.58	18.51	17.45	18.38
240	16.93	17.69	18.61	17.54	18.51
250	16.94	17.70	18.61	17.50	18.61
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	20.55	20.40	21.94	24.26	21.58
220	21.30	21.10	22.66	25.03	22.27
230	22.17	21.93	23.52	25.87	23.10
240	23.23	22.80	24.37	26.81	23.92
250	24.33	23.90	25.42	27.87	24.81
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.81	0.85	0.83	0.71	0.83
220	0.78	0.82	0.81	0.69	0.81
230	0.76	0.80	0.79	0.67	0.80
240	0.73	0.78	0.76	0.65	0.77
250	0.70	0.74	0.73	0.63	0.75
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 7. Wattage and VA results for Westminster Engine ENG013 – DRV040 + 2 x CMP014**

Operating Mode	10%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	8.28	9.27	11.04	9.18	10.27
220	8.27	9.24	10.99	9.18	10.24
230	8.20	9.16	11.00	9.07	10.17
240	8.27	9.21	11.02	9.15	10.18
250	8.27	9.21	10.93	9.17	10.13
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	15.54	15.34	17.35	20.05	16.26
220	16.67	16.16	18.41	21.17	17.29
230	17.74	16.66	19.33	21.22	18.22
240	19.55	18.76	20.82	23.59	19.45
250	20.82	20.24	20.66	25.02	20.77
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.53	0.60	0.64	0.46	0.63
220	0.50	0.57	0.60	0.43	0.59
230	0.46	0.55	0.57	0.43	0.56
240	0.42	0.49	0.53	0.39	0.52
250	0.40	0.46	0.53	0.37	0.49
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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## **PRODUCT DETAILS**

**Table 8. Test Sample Details**

Product Description	Westminster Engine ENG014 – DRV061 & CMP015 & CMP014
Model No.	ENG014
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	LED - H:190mm W:60mm L:58mm Driver - H:165mm W:61mm L:40mm
Product Supply Requirement	220-240V, 50/60Hz
Lamp Type and Power	100W LED
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 9. Wattage and VA results for Westminster Engine ENG014 – DRV061 & CMP015 & CMP014**

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	92.91	92.74	91.84	94.48	93.47
220	93.02	92.86	91.96	94.58	93.54
230	93.13	92.97	92.08	94.69	93.61
240	93.25	93.09	92.21	94.81	93.71
250	93.39	93.22	92.36	94.92	93.81
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	97.57	95.78	94.72	97.45	96.38
220	98.29	96.34	95.28	98.04	96.95
230	99.10	96.98	95.92	98.71	97.60
240	99.99	97.73	96.67	99.49	98.37
250	100.97	98.58	97.53	100.34	99.21
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.95	0.97	0.97	0.97	0.97
220	0.95	0.96	0.97	0.96	0.96
230	0.94	0.96	0.96	0.96	0.96
240	0.93	0.95	0.95	0.95	0.95
250	0.92	0.95	0.95	0.95	0.95
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 10. Wattage and VA results for Westminster Engine ENG014 – DRV061 & CMP015 & CMP014**

Operating Mode	80%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	76.05	75.33	74.27	77.05	76.57
220	76.22	75.53	74.43	77.19	76.71
230	76.39	75.74	74.57	77.34	76.85
240	76.57	75.98	74.73	77.48	77.00
250	76.77	76.18	74.90	77.64	77.17
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	81.57	78.76	77.58	84.45	79.92
220	82.46	79.52	78.29	81.18	80.66
230	83.43	80.39	79.09	82.00	81.48
240	84.49	81.38	79.99	82.92	82.41
250	85.65	82.45	81.03	83.96	83.44
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.93	0.96	0.96	0.91	0.96
220	0.92	0.95	0.95	0.95	0.95
230	0.92	0.94	0.94	0.94	0.94
240	0.91	0.93	0.93	0.93	0.93
250	0.90	0.92	0.92	0.92	0.92
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 11. Wattage and VA results for Westminster Engine ENG014 – DRV061 & CMP015 & CMP014**

Operating Mode	60%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	58.01	58.13	57.02	58.15	57.29
220	58.22	58.37	57.25	58.38	57.51
230	58.44	58.62	57.49	58.61	57.74
240	58.67	58.89	57.75	58.88	58.01
250	58.95	59.15	57.99	59.13	58.27
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	64.92	62.28	61.02	62.34	61.49
220	66.01	63.25	61.98	63.32	62.47
230	67.19	64.32	63.03	64.40	63.55
240	68.46	65.54	64.23	65.63	64.78
250	69.87	66.85	65.53	66.96	66.10
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.89	0.93	0.93	0.93	0.93
220	0.88	0.92	0.92	0.92	0.92
230	0.87	0.91	0.91	0.91	0.91
240	0.86	0.90	0.90	0.90	0.90
250	0.84	0.88	0.88	0.88	0.88
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 12. Wattage and VA results for Westminster Engine ENG014 – DRV061 & CMP015 & CMP014**

Operating Mode	40%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	40.44	41.33	41.24	41.83	42.24
220	40.70	41.64	41.53	42.15	42.54
230	40.97	41.92	41.80	42.46	42.83
240	41.27	42.23	42.11	42.78	43.13
250	41.56	42.56	42.42	43.12	43.45
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	49.62	46.76	46.42	47.26	47.60
220	50.92	48.02	47.64	48.53	48.84
230	52.18	49.33	48.95	49.88	50.15
240	53.65	50.66	50.34	51.24	51.49
250	55.23	52.14	51.73	52.69	52.89
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.81	0.88	0.89	0.89	0.89
220	0.80	0.87	0.87	0.87	0.87
230	0.79	0.85	0.85	0.85	0.85
240	0.77	0.83	0.84	0.83	0.84
250	0.75	0.82	0.82	0.82	0.82
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 13. Wattage and VA results for Westminster Engine ENG014 – DRV061 & CMP015 & CMP014**

Operating Mode	20%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	24.52	24.98	24.17	24.42	25.03
220	24.82	25.31	24.51	24.75	25.34
230	25.08	25.56	24.83	25.08	25.64
240	24.60	25.82	25.09	25.34	25.90
250	24.94	26.16	25.41	25.69	26.22
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	37.29	32.88	31.89	32.40	32.82
220	38.87	34.46	33.49	34.02	34.38
230	43.41	31.22	36.54	35.81	36.20
240	43.14	39.02	37.69	38.35	38.75
250	45.38	41.46	40.14	40.81	41.21
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.66	0.76	0.76	0.75	0.76
220	0.64	0.73	0.73	0.73	0.74
230	0.58	0.82	0.68	0.70	0.71
240	0.57	0.66	0.67	0.66	0.67
250	0.55	0.63	0.63	0.63	0.64
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 14. Wattage and VA results for Westminster Engine ENG014 – DRV061 & CMP015 & CMP014**

Operating Mode	10%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	16.12	17.52	15.98	16.09	16.77
220	16.45	17.83	16.29	16.41	17.08
230	16.80	18.16	16.63	16.77	17.43
240	17.18	18.51	17.00	17.15	17.80
250	17.58	18.89	17.38	17.55	18.21
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	32.85	28.77	26.75	27.48	27.82
220	34.47	30.49	28.43	29.23	29.45
230	36.18	32.22	30.22	31.05	31.17
240	37.99	34.05	32.08	32.95	33.02
250	39.89	36.05	34.05	34.97	35.00
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.49	0.61	0.60	0.59	0.60
220	0.48	0.58	0.57	0.56	0.58
230	0.46	0.56	0.55	0.54	0.56
240	0.45	0.54	0.53	0.52	0.54
250	0.44	0.52	0.51	0.50	0.52
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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## **PRODUCT DETAILS**

**Table 15. Test Sample Details**

Product Description	Westminster Engine ENG015 – DRV060 & 2 x CMP015
Model No.	ENG015
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	LED - H:190mm W:60mm L:12mm Driver - H:165mm W:67mm L:40mm
Product Supply Requirement	220-240V, 50/60Hz
Lamp Type and Power	105W LED
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 16. *Wattage and VA results for Westminster Engine ENG015 – DRV060 & 2 x CMP015*

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	105.02	105.29	104.67	104.06	104.02
220	105.07	105.33	104.72	104.12	104.07
230	105.14	105.40	104.80	104.20	104.13
240	105.23	105.47	104.91	104.29	104.21
250	105.33	105.67	105.03	104.40	104.32
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	108.43	108.31	107.80	107.61	107.50
220	109.12	108.97	108.50	108.32	108.19
230	109.89	109.72	109.27	109.09	108.96
240	110.75	110.57	110.16	109.99	109.84
250	111.71	111.63	111.14	110.97	110.82
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.97	0.97	0.97	0.97	0.97
220	0.96	0.97	0.97	0.96	0.96
230	0.96	0.96	0.96	0.96	0.96
240	0.95	0.95	0.95	0.95	0.95
250	0.94	0.95	0.95	0.94	0.94
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 17. Wattage and VA results for Westminster Engine ENG015 – DRV060 & 2 x CMP015**

Operating Mode	80%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	84.41	84.78	84.10	83.83	83.73
220	84.58	84.95	84.31	83.96	83.89
230	84.74	85.10	84.48	84.11	84.04
240	84.92	85.28	84.67	84.28	84.21
250	85.12	85.47	84.86	84.46	84.39
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	88.35	88.34	87.86	87.84	87.71
220	89.22	89.20	88.74	88.69	88.58
230	90.10	90.06	89.64	89.58	89.48
240	90.83	90.83	90.43	90.36	90.33
250	91.60	91.47	91.14	90.99	90.97
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.96	0.96	0.96	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	0.94	0.94	0.93	0.93
250	0.93	0.93	0.93	0.93	0.93
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

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**Table 18. Wattage and VA results for Westminster Engine ENG015 – DRV060 & 2 x CMP015**

Operating Mode	60%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	64.38	64.78	65.13	63.97	64.94
220	64.59	64.99	65.54	64.17	65.14
230	64.80	65.19	65.56	64.59	65.34
240	65.02	65.41	65.78	64.60	65.55
250	65.24	65.62	66.00	65.81	65.76
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	68.65	68.61	69.19	68.19	69.19
220	69.63	69.55	70.15	69.14	70.01
230	70.71	70.60	71.22	70.23	71.05
240	71.90	71.75	72.40	71.40	72.21
250	73.19	73.01	73.69	72.67	73.47
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.94	0.94	0.94	0.94	0.94
220	0.93	0.93	0.93	0.93	0.93
230	0.92	0.92	0.92	0.92	0.92
240	0.90	0.91	0.91	0.90	0.91
250	0.89	0.90	0.90	0.91	0.90
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

Continued on following page

**Table 19. Wattage and VA results for Westminster Engine ENG015 – DRV060 & 2 x CMP015**

Operating Mode	40%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	44.41	44.89	43.26	44.26	43.90
220	44.64	45.13	43.50	44.48	43.43
230	44.84	45.38	43.68	44.71	43.67
240	45.05	45.58	43.91	44.91	43.91
250	45.28	45.81	44.14	45.14	44.13
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	50.17	50.11	48.99	49.85	48.87
220	51.42	51.32	50.25	51.06	50.11
230	53.68	52.65	52.54	52.41	51.47
240	55.96	55.06	55.16	54.66	53.23
250	58.41	57.84	57.80	57.31	56.04
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.89	0.90	0.88	0.89	0.90
220	0.87	0.88	0.87	0.87	0.87
230	0.84	0.86	0.83	0.85	0.85
240	0.81	0.83	0.80	0.82	0.82
250	0.78	0.79	0.76	0.79	0.79
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

Continued on following page

**Table 20. Wattage and VA results for Westminster Engine ENG015 – DRV060 & 2 x CMP015**

Operating Mode	20%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	22.45	24.15	24.45	24.58	23.54
220	22.77	24.48	24.74	24.91	23.85
230	23.12	24.84	25.07	25.26	24.19
240	23.50	25.21	25.44	25.63	24.56
250	23.91	25.60	25.84	26.03	24.96
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	35.07	37.09	37.69	37.14	37.01
220	36.87	38.99	39.57	39.04	39.22
230	38.80	40.94	41.46	40.95	41.45
240	40.81	42.96	43.40	42.95	43.65
250	42.87	45.02	45.43	45.04	45.78
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.64	0.65	0.65	0.66	0.64
220	0.62	0.63	0.63	0.64	0.61
230	0.60	0.61	0.60	0.62	0.58
240	0.58	0.59	0.59	0.60	0.56
250	0.56	0.57	0.57	0.58	0.55
Ambient Temperature During Test (°C)			25.0		
PF Leading/Lagging			Leading		

Continued on following page

**Table 21. Wattage and VA results for Westminster Engine ENG015 – DRV060 & 2 x CMP015**

Operating Mode	10%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	14.98	15.53	15.93	15.94	15.00
220	15.36	15.93	16.31	16.32	15.36
230	15.75	16.35	16.71	16.73	15.73
240	16.15	16.78	17.14	17.15	16.14
250	16.59	17.23	17.58	17.59	16.57
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	28.45	29.93	30.23	30.45	29.91
220	30.05	31.54	31.94	32.08	31.60
230	31.67	33.19	33.67	33.71	33.28
240	33.36	34.87	35.39	35.38	34.96
250	35.11	36.58	37.10	37.09	36.66
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.53	0.52	0.53	0.52	0.50
220	0.51	0.51	0.51	0.51	0.49
230	0.50	0.49	0.50	0.50	0.47
240	0.48	0.48	0.48	0.48	0.46
250	0.47	0.47	0.47	0.47	0.45
Ambient Temperature During Test (°C)			25.0		
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):  $\pm 0.69\%$ , 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.

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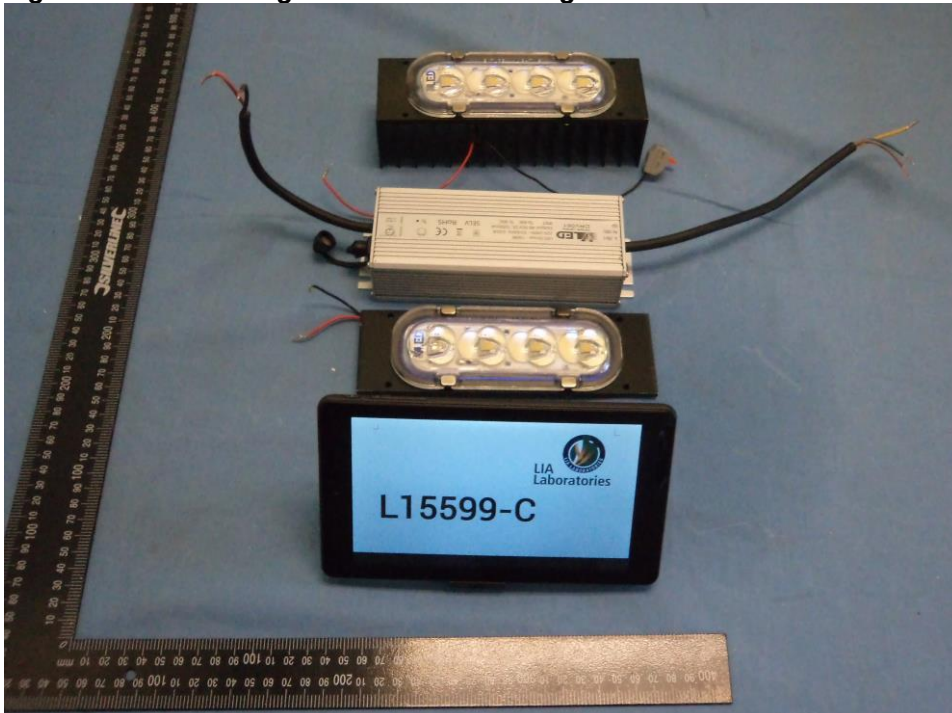


## ILLUSTRATION

**Figure 1. Product image for Westminster Engine ENG013 – DRV040 & 2 x CMP014**



**Figure 2. Product image for Westminster Engine ENG014 – DRV061 & CMP015 & CMP014**



Continued on following page

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

**Figure 3. Product image for Westminster Engine ENG015 – DRV060 & 2 x CMP015**



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**End**