



## Test Report

**Report No** : L14433 Amd 1  
**Client:** : Simmons Limited  
Stafford Park 5  
Telford  
Shropshire, TF3 3AS  
**Description** : Luminaire safety IL2 variable output  
**Manufacturer** : Simmons Limited  
**Type/Model** : \ SWLV \ LU  
**Test Specification** : Measurement of power consumption in accordance with the  
"Unmetered Supplies Operational Information" document –  
Version 13.0 (7/11/13)  
**Date Tested** : 29/07/2014  
**Conclusion** : Refer to body of Report  
**Date of Issue** : 31/07/2014  
**Date of Expiry** : 29/07/2019

**Tested by:** C.LOVEITT  
**Position:** Laboratory Technician

**Approved by:** K.GOVINDEN  
**Position:** Technical Manager



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**Note:** This amendment 1 is a client request to change the mode numbering as follows:

Mode 1 becomes Mode 0  
Mode 2 becomes Mode 7  
Mode 3 becomes Mode 6  
Mode 4 becomes Mode 5  
Mode 5 becomes Mode 4  
Mode 6 becomes Mode 3  
Mode 7 becomes Mode 2  
Mode 8 becomes Mode 1

## **INTRODUCTION**

Simmons Signs Ltd has supplied the product identified in table 1 for measurement of power consumption in accordance with the "Unmetered Supplies Operational Information" document – Version 13.0 (7/11/13).

## **PRODUCT DETAILS**

**Table 1. Test Sample Details**

Product Description	Luminaire safeway IL2 variable output
Model No.	\ SWLV \ LU
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	N/A
Product Supply Requirement	240V 50Hz
Lamp Type and Power	LED/29.6W/25.2W Driver
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	



## **RESULTS**

Table 2. *Wattage and VA results for mode 0*

### **Watts**

Voltage	Sample Number				
	1	2	3	4	5
210	29.53	29.50	29.44	29.27	29.55
220	29.54	29.49	29.43	29.26	29.54
230	29.54	29.49	29.43	29.26	29.54
240	29.54	29.48	29.42	29.26	29.53
250	29.55	29.48	29.43	29.25	29.53

### **VA**

Voltage	Sample Number				
	1	2	3	4	5
210	30.11	30.12	30.12	29.88	29.55
220	30.23	30.11	30.14	29.95	29.54
230	30.34	30.32	30.27	30.05	30.38
240	30.49	30.43	30.37	30.17	30.49
250	30.63	30.57	30.51	30.29	30.63

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**Table 3. Wattage and VA results for mode 7**

**Watts**

Voltage	Sample Number				
	1	2	3	4	5
210	24.13	23.60	24.17	24.46	23.59
220	24.13	23.60	24.16	24.47	23.59
230	24.13	23.61	24.17	24.47	23.59
240	24.13	23.62	24.16	24.48	23.59
250	24.12	23.62	24.17	24.48	23.60

**VA**

Voltage	Sample Number				
	1	2	3	4	5
210	24.88	24.30	24.17	25.15	24.33
220	25.00	24.43	24.99	25.26	24.45
230	25.14	24.60	25.13	25.38	24.58
240	25.26	24.73	25.24	25.51	24.71
250	25.38	24.87	24.87	25.65	24.86

**Table 4. Wattage and VA results for mode 6**

**Watts**

Voltage	Sample Number				
	1	2	3	4	5
210	20.14	19.61	19.94	20.33	19.51
220	20.15	19.63	19.96	20.34	19.52
230	20.17	19.65	19.97	20.36	19.55
240	20.19	19.66	19.98	20.38	20.77
250	20.20	19.68	20.00	20.39	19.57

**VA**

Voltage	Sample Number				
	1	2	3	4	5
210	20.95	20.38	20.70	21.05	20.29
220	21.01	20.53	20.84	21.19	20.43
230	21.27	20.69	20.99	21.34	20.59
240	21.44	20.86	21.17	21.52	20.77
250	21.62	21.10	21.40	21.71	20.99

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**Table 5. Wattage and VA results for mode 5**

**Watts**

Voltage	Sample Number				
	1	2	3	4	5
210	16.67	16.35	16.40	16.81	16.15
220	16.69	16.37	16.42	16.84	16.18
230	16.72	16.40	16.45	16.87	16.21
240	16.75	16.42	16.47	16.90	16.23
250	16.78	16.45	16.49	16.92	16.25

**VA**

Voltage	Sample Number				
	1	2	3	4	5
210	17.55	17.22	17.26	17.63	17.02
220	17.71	17.38	17.41	17.79	17.19
230	17.89	17.57	17.60	17.97	17.37
240	18.11	17.76	17.80	18.17	17.57
250	18.36	17.99	18.02	18.39	17.81

**Table 6. Wattage and VA results for mode 4**

**Watts**

Voltage	Sample Number				
	1	2	3	4	5
210	14.20	13.95	14.01	14.23	13.60
220	14.23	13.97	14.03	14.26	13.63
230	14.26	14.00	14.06	14.29	13.66
240	14.29	14.03	14.09	14.32	13.69
250	14.32	14.05	14.11	14.35	13.72

**VA**

Voltage	Sample Number				
	1	2	3	4	5
210	15.18	14.90	14.95	15.14	14.57
220	15.36	15.07	15.13	15.31	14.75
230	15.58	15.28	15.32	15.52	14.96
240	15.80	15.50	15.54	15.73	15.18
250	16.02	15.72	15.76	15.96	15.42

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**Table 5. Wattage and VA results for mode 3**

**Watts**

Voltage	Sample Number				
	1	2	3	4	5
210	12.05	11.74	11.72	12.00	11.44
220	12.08	11.77	11.76	12.03	11.48
230	12.11	11.81	11.79	12.07	11.51
240	12.15	11.84	11.82	12.10	11.54
250	12.18	11.87	11.85	12.14	11.58

**VA**

Voltage	Sample Number				
	1	2	3	4	5
210	13.12	12.79	12.77	13.01	12.51
220	13.33	12.99	12.96	13.21	12.72
230	13.55	13.21	13.18	13.42	12.94
240	13.79	13.43	13.40	13.64	13.16
250	14.05	13.69	13.65	13.89	13.41

**Table 6. Wattage and VA results for mode 2**

**Watts**

Voltage	Sample Number				
	1	2	3	4	5
210	8.83	8.51	8.45	8.60	8.21
220	8.87	8.55	8.49	8.64	8.25
230	8.91	8.59	8.53	8.69	8.29
240	8.95	8.63	8.57	8.73	8.33
250	8.99	8.66	8.60	8.77	8.36

**VA**

Voltage	Sample Number				
	1	2	3	4	5
210	10.10	9.77	9.70	9.83	9.50
220	10.33	10.00	9.93	10.06	9.72
230	10.59	10.25	10.18	10.30	9.97
240	10.84	10.51	10.43	10.56	10.23
250	11.13	10.78	10.69	10.84	10.50

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Table 5. *Wattage and VA results for mode 1*

**Watts**

Voltage	Sample Number				
	1	2	3	4	5
210	4.27	3.95	3.83	3.85	3.75
220	4.30	3.97	3.86	3.88	3.78
230	4.33	4.01	3.84	3.89	3.73
240	4.27	3.95	3.80	3.85	3.70
250	4.25	3.94	3.77	3.80	3.71

**VA**

Voltage	Sample Number				
	1	2	3	4	5
210	6.08	5.77	5.66	5.64	5.58
220	6.37	6.06	5.94	5.92	5.86
230	6.67	6.42	6.25	6.29	6.17
240	6.69	6.71	6.45	6.61	6.36
250	7.17	7.13	7.11	7.12	7.14

**DEVIATION(S) FROM TEST STANDARD**

No reported deviations from test standard.

**MEASUREMENT UNCERTAINTY**

Measurement	Uncertainty / U, k=2 ( $\pm$ )
Power / W	0.8
VA / VA	0.8

The reported expanded uncertainty U, is based on a standard uncertainty multiplied by a coverage factor k, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements

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## ILLUSTRATION



Figure 1. *Image of tested samples*

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