



UMSUG Power Measurement Test Report

Report No 102

DUT STL060-90

Supplier Venture Lighting Europe

Power Analyser Serial 125-04815

Thermocouple Meter Serial AZ 189/712

Test Description

UMSUG Power Testing
-90W VSOLDIER STREET LIGHT 740

Venture Lighting Europe Limited has reviewed the Unmetered Supply Operational Information Document version 17.0 issued 15th March 2017 and confirmed that testing has been performed in accordance with clause **3.2 Test Data requirements**; this being the applicable procedure for product under test.

Measurement Error

Measurement uncertainty is given as follows:

Real Power +/-0.4%

Apparent Power +/-0.43%

Power Factor +/- 1.17%

The above is based on a standard uncertainty multiplied by k=2.

Operator Karim Abdul

Signature 

Checked by Clive Riddell

Signature 

Date 07-06-17

Test 1

Power (%)	100
DAPC	N/A
1-10V	8.65

Real Power (W)						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	97.56	96.35	98.05	96.16	97.68	97.16
220	97.52	96.29	97.79	96.01	97.54	97.03
230	97.45	96.21	97.88	95.89	97.45	96.98
240	97.39	96.12	98.22	95.83	97.34	96.98
250	97.30	96.10	97.64	95.74	97.26	96.81

Apparent Power (VA)						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	99.08	97.90	99.45	97.49	99.03	98.59
220	99.25	98.06	96.01	97.55	99.09	97.99
230	99.40	98.19	99.66	97.67	99.40	98.86
240	99.57	98.36	100.19	97.85	99.37	99.07
250	99.77	98.61	99.90	98.07	99.58	99.19

Power Factor						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	0.985	0.984	0.986	0.986	0.986	0.985
220	0.983	0.982	0.984	0.984	0.984	0.983
230	0.980	0.980	0.982	0.982	0.980	0.981
240	0.978	0.977	0.980	0.979	0.980	0.979
250	0.975	0.975	0.977	0.976	0.977	0.976

Ta (°C)	23.85
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Power Factor	Leading
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Test 2

Power (%)	80
DAPC	N/A
1-10V	6.95

Real Power (W)						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	81.10	79.83	81.70	79.74	81.27	80.73
220	80.68	79.77	80.55	79.67	81.07	80.35
230	80.44	79.73	81.07	79.60	81.09	80.38
240	80.40	79.76	80.73	79.51	81.06	80.29
250	80.58	79.61	80.80	79.69	80.83	80.30

Apparent Power (VA)						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	82.74	81.52	83.16	81.22	82.25	82.18
220	82.56	81.69	82.28	81.37	82.78	82.14
230	82.56	81.88	83.00	81.57	83.05	82.41
240	82.82	82.23	82.73	81.79	83.31	82.58
250	83.30	82.41	83.33	82.33	83.44	82.96

Power Factor						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	0.980	0.979	0.983	0.982	0.982	0.981
220	0.977	0.977	0.979	0.989	0.979	0.980
230	0.974	0.974	0.977	0.976	0.976	0.975
240	0.971	0.970	0.973	0.972	0.973	0.972
250	0.967	0.966	0.970	0.968	0.969	0.968

Ta (°C)	22.85
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Power Factor	Leading
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Test 3

Power (%)	60
DAPC	N/A
1-10V	5.25

Real Power (W)						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	60.96	60.38	81.70	60.49	61.27	64.96
220	60.53	57.42	80.55	60.48	61.29	64.05
230	60.51	60.40	81.07	60.43	61.15	64.71
240	60.51	60.34	80.73	60.39	61.14	64.62
250	60.39	60.35	80.80	60.26	61.10	64.58

Apparent Power (VA)						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	62.78	62.27	62.96	62.20	62.96	62.64
220	62.65	59.64	63.22	62.51	63.29	62.26
230	62.96	62.89	63.08	62.80	63.46	63.04
240	63.31	63.20	64.03	63.14	63.84	63.50
250	63.60	63.61	63.63	63.46	64.22	63.70

Power Factor						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	0.971	0.970	0.974	0.973	0.973	0.972
220	0.966	0.963	0.970	0.968	0.968	0.967
230	0.961	0.960	0.964	0.962	0.964	0.962
240	0.956	0.955	0.962	0.957	0.958	0.957
250	0.950	0.949	0.953	0.950	0.951	0.950

Ta (°C)	22.79
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Power Factor	Leading
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Test 4

Power (%)	40
DAPC	N/A
1-10V	3.55

Real Power (W)						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	39.67	40.17	40.69	40.45	40.83	40.36
220	39.91	40.21	41.19	40.50	40.72	40.51
230	39.84	40.30	41.10	40.54	40.84	40.52
240	40.01	40.29	41.10	40.56	40.84	40.56
250	40.55	40.33	41.05	40.57	40.76	40.65

Apparent Power (VA)						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	42.02	42.55	42.76	42.74	42.99	42.61
220	42.66	42.98	43.48	53.24	43.33	45.14
230	43.02	43.46	43.86	43.76	43.92	43.60
240	43.61	43.95	44.31	44.32	44.49	44.14
250	44.68	44.56	44.82	44.87	44.97	44.78

Power Factor						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	0.944	0.944	0.951	0.947	0.950	0.947
220	0.936	0.936	0.947	0.937	0.940	0.939
230	0.926	0.927	0.937	0.926	0.930	0.929
240	0.917	0.917	0.928	0.915	0.918	0.919
250	0.908	0.905	0.917	0.904	0.907	0.908

Ta (°C)	22.55
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Power Factor	Leading
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Test 5

Power (%)	20
DAPC	N/A
1-10V	1.85

Real Power (W)						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	23.56	24.10	24.06	24.34	24.36	24.08
220	23.64	24.10	23.95	24.37	24.40	24.09
230	23.72	24.20	24.19	24.44	24.44	24.20
240	23.77	24.33	24.19	24.50	24.48	24.25
250	23.88	24.39	24.15	24.48	24.51	24.28

Apparent Power (VA)						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	26.81	27.37	27.09	27.72	27.60	27.32
220	27.47	27.96	27.59	28.29	28.29	27.92
230	28.27	28.77	28.35	28.99	29.04	28.68
240	29.04	29.56	29.10	29.71	29.73	29.43
250	29.88	30.37	29.86	30.55	30.50	30.23

Power Factor						
Volts AC	DUT 1	DUT 2	DUT 3	DUT 4	DUT 5	Average
210	0.879	0.881	0.888	0.878	0.883	0.882
220	0.860	0.862	0.868	0.861	0.863	0.863
230	0.839	0.841	0.853	0.843	0.842	0.844
240	0.818	0.823	0.831	0.825	0.823	0.824
250	0.799	0.803	0.809	0.801	0.804	0.803

Ta (°C)	22.09
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Power Factor	Leading
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Images



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