


TEST REPORT

SAMPLE INFORMATION:

1. **Sample Description:** LED Street Light
2. **Trade Mark:** 
3. **Models:** ARIALED S110
4. **Serial/Batch No. of Sample:** ---
5. **Manufacturer Date:** ----
6. **Manufacturer:** OrangeTek Limited
7. **Manufacturer Address:** Coach House, Blakenhall Park, Bar Lane, Barton under Needwood, Burton upon Trent DE138AJ
8. **Sample Quantity:** 5 units ARIALED S110

CLIENT INFORMATION

1. **Applicant:** OrangeTek Limited
2. **Applicant Address:** Coach House Blakenhall Park, Bar Lane, Barton under Needwood, Burton upon Trent DE13 8AJ
3. **Applicant Post Code:** ---
4. **Applicant Telephone:** ---+44 (0)128 371 6690

TEST INFORMATION:

1. **Applicant No:**
2. **Sampling Method:** Delivered by Applicant
3. **Date of Receipt:** 2015-03-26
4. **Issued Date:** 2015-03-27
5. **Test Item:** Input characteristic
6. **Ref. Documents for the Test:** Specified by client.

CONCLUSION:

REMARKS:

1. The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.
2. Characterization & Condition of Sample: Normal.
3. Ambient Condition During Testing: 25 ± 2 C, 50-60% RH.

Sample 1 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	245.80	1.1784	0.993
220	50	245.00	1.1229	0.992
230	50	244.40	1.0727	0.991
240	50	243.90	1.0270	0.989
250	50	243.40	0.9852	0.988

Sample 2 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	245.95	1.1791	0.993
220	50	245.15	1.1236	0.992
230	50	244.55	1.0733	0.991
240	50	244.05	1.0276	0.989
250	50	243.55	0.9858	0.988

Sample 3 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	245.65	1.1777	0.993
220	50	244.85	1.1222	0.992
230	50	244.25	1.0721	0.991
240	50	243.75	1.0264	0.989
250	50	243.25	0.9846	0.988

Sample 4 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	246.09	1.1798	0.993
220	50	245.29	1.1242	0.992
230	50	244.69	1.0740	0.991
240	50	244.19	1.0282	0.989
250	50	243.69	0.9864	0.988

Sample 5 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	245.51	1.1770	0.993
220	50	244.71	1.1216	0.992
230	50	244.11	1.0714	0.991
240	50	243.61	1.0258	0.989
250	50	243.11	0.9840	0.988

Watts 100% light output

Voltage\Sample	1	2	3	4	5
210	245.80	245.95	245.65	246.09	245.51
220	245.00	245.15	244.85	245.29	244.71
230	244.40	244.55	244.25	244.69	244.11
240	243.90	244.05	243.75	244.19	243.61
250	243.40	243.55	243.25	243.69	243.11

VA 100% light output

Voltage\Sample	1	2	3	4	5
210	247.464	247.612	247.316	247.761	247.167
220	247.038	247.186	246.890	247.334	246.742
230	246.721	246.869	246.573	247.017	246.425
240	246.480	246.628	246.332	246.776	246.184
250	246.300	246.448	246.152	246.596	246.004

Notes:

1. Test be conducted after operating for 12 hours to reach their steady load state.
2. The measurement uncertainties are for a confidence probability of not less than 98%.
3. The measurement uncertainties of the below value (k=2), Urel(v)=0.1% , Urel(w)=0.1% , Urel(i)=0.2% , Urel(f)=0.05% , Urel(PF)=0.5

Sample 1 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	168.70	0.8133	0.988
220	50	168.10	0.7754	0.986
230	50	167.90	0.7422	0.984
240	50	167.70	0.7118	0.981
250	50	167.50	0.6841	0.979

Sample 2 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	168.80	0.8138	0.988
220	50	168.20	0.7759	0.986
230	50	168.00	0.7426	0.984
240	50	167.80	0.7122	0.981
250	50	167.60	0.6845	0.979

Sample 3 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	168.60	0.8128	0.988
220	50	168.00	0.7749	0.986
230	50	167.80	0.7418	0.984
240	50	167.60	0.7114	0.981
250	50	167.40	0.6837	0.979

Sample 4 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	168.90	0.8143	0.988
220	50	168.30	0.7763	0.986
230	50	168.10	0.7431	0.984
240	50	167.90	0.7127	0.981
250	50	167.70	0.6849	0.979

Sample 5 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	168.50	0.8123	0.988
220	50	167.90	0.7745	0.986
230	50	167.70	0.7413	0.984
240	50	167.50	0.7109	0.981
250	50	167.30	0.6833	0.979

Watts 70% light output

Voltage\Sample	1	2	3	4	5
210	168.70	168.80	168.60	168.90	168.50
220	168.10	168.20	168.00	168.30	167.90
230	167.90	168.00	167.80	168.10	167.70
240	167.70	167.80	167.60	167.90	167.50
250	167.50	167.60	167.40	167.70	167.30

VA 70% light output

Voltage\Sample	1	2	3	4	5
210	170.793	170.895	170.691	170.998	170.588
220	170.588	170.690	170.486	170.793	170.383
230	170.706	170.808	170.604	170.911	170.501
240	170.832	170.934	170.730	171.037	170.627
250	171.025	171.128	170.922	171.230	170.820

Notes:

- Test be conducted after operating for 12 hours to reach their steady load state.
- The measurement uncertainties are for a confidence probability of not less than 98%.
- The measurement uncertainties of the below value (k=2), Urel(v)=0.1% , Urel(w)=0.1% , Urel(i)=0.2% , Urel(f)=0.05% , Urel(PF)=0.5

Sample 1 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	120.70	0.5870	0.979
220	50	120.50	0.5614	0.976
230	50	120.10	0.5374	0.972
240	50	120.20	0.5174	0.968
250	50	120.10	0.4982	0.964

Sample 2 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	120.77	0.5874	0.979
220	50	120.57	0.5617	0.976
230	50	120.17	0.5377	0.972
240	50	120.27	0.5177	0.968
250	50	120.17	0.4985	0.964

Sample 3 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	120.63	0.5866	0.979
220	50	120.43	0.5611	0.976
230	50	120.03	0.5371	0.972
240	50	120.13	0.5171	0.968
250	50	120.03	0.4979	0.964

Sample 4 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	120.84	0.5877	0.979
220	50	120.64	0.5621	0.976
230	50	120.24	0.5380	0.972
240	50	120.34	0.5180	0.968
250	50	120.24	0.4988	0.964

Sample 5 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	120.56	0.5863	0.979
220	50	120.36	0.5607	0.976
230	50	119.96	0.5368	0.972
240	50	120.06	0.5168	0.968
250	50	119.96	0.4976	0.964

Watts 50% light output

Voltage\Sample	1	2	3	4	5
210	120.70	120.77	120.63	120.84	120.56
220	120.50	120.57	120.43	120.64	120.36
230	120.10	120.17	120.03	120.24	119.96
240	120.20	120.27	120.13	120.34	120.06
250	120.10	120.17	120.03	120.24	119.96

VA 50% light output

Voltage\Sample	1	2	3	4	5
210	123.270	123.344	123.196	123.418	123.122
220	123.508	123.582	123.434	123.656	123.360
230	123.602	123.676	123.528	123.750	123.454
240	124.176	124.251	124.101	124.325	124.027
250	124.550	124.625	124.475	124.699	124.401

Notes:

7. Test be conducted after operating for 12 hours to reach their steady load state.
8. The measurement uncertainties are for a confidence probability of not less than 98%.
9. The measurement uncertainties of the below value (k=2), Urel(v)=0.1% , Urel(w)=0.1% , Urel(i)=0.2% , Urel(f)=0.05% , Urel(PF)=0.5

Photograph of Sample

Photo 1 View of EUT



Photo 2 View of EUT

