

TEST REPORT

SAMPLE INFORMATION:

1. **Sample Description:** LED Street Light
2. **Trade Mark:**
3. **Models:** ARIALED S60
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 S60



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:** 2015-03-25
4. **Issued Date:** 2015-03-26
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	134.20	0.6502	0.983
220	50	134.50	0.6237	0.980
230	50	133.80	0.5956	0.976
240	50	135.30	0.5769	0.974
250	50	133.60	0.5515	0.969

Sample 2 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	134.28	0.6506	0.983
220	50	134.58	0.6241	0.980
230	50	133.88	0.5960	0.976
240	50	135.38	0.5772	0.974
250	50	133.68	0.5518	0.969

Sample 3 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	134.12	0.6498	0.983
220	50	134.42	0.6233	0.980
230	50	133.72	0.5952	0.976
240	50	135.22	0.5766	0.974
250	50	133.52	0.5512	0.969

Sample 4 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	134.36	0.6510	0.983
220	50	134.66	0.6244	0.980
230	50	133.96	0.5963	0.976
240	50	135.46	0.5776	0.974
250	50	133.76	0.5522	0.969

Sample 5 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	134.04	0.6494	0.983
220	50	134.34	0.6230	0.980
230	50	133.64	0.5949	0.976
240	50	135.14	0.5762	0.974
250	50	133.44	0.5508	0.969

Watts 100% light output

Voltage\Sample	1	2	3	4	5
210	134.20	134.28	134.12	134.36	134.04
220	134.50	134.58	134.42	134.66	134.34
230	133.80	133.88	133.72	133.96	133.64
240	135.30	135.38	135.22	135.46	135.14
250	133.60	133.68	133.52	133.76	133.44

VA 100% light output

Voltage\Sample	1	2	3	4	5
210	136.542	136.624	136.460	136.706	136.378
220	137.214	137.296	137.132	137.379	137.049
230	136.988	137.070	136.906	137.152	136.824
240	138.456	138.539	138.373	138.622	138.290
250	137.875	137.958	137.792	138.040	137.710

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	93.90	0.4598	0.971
220	50	92.40	0.4346	0.966
230	50	94.20	0.4252	0.962
240	50	93.00	0.4061	0.956
250	50	92.60	0.3893	0.951

Sample 2 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	93.96	0.4601	0.971
220	50	92.46	0.4349	0.966
230	50	94.26	0.4255	0.962
240	50	93.06	0.4063	0.956
250	50	92.66	0.3895	0.951

Sample 3 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	93.84	0.4595	0.971
220	50	92.34	0.4343	0.966
230	50	94.14	0.4249	0.962
240	50	92.94	0.4059	0.956
250	50	92.54	0.3891	0.951

Sample 4 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	94.01	0.4604	0.971
220	50	92.51	0.4351	0.966
230	50	94.31	0.4257	0.962
240	50	93.11	0.4066	0.956
250	50	92.71	0.3898	0.951

Sample 5 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	93.79	0.4592	0.971
220	50	92.29	0.4341	0.966
230	50	94.09	0.4247	0.962
240	50	92.89	0.4056	0.956
250	50	92.49	0.3888	0.951

Watts 70% light output

Voltage\Sample	1	2	3	4	5
210	93.90	93.96	93.84	94.01	93.79
220	92.40	92.46	92.34	92.51	92.29
230	94.20	94.26	94.14	94.31	94.09
240	93.00	93.06	92.94	93.11	92.89
250	92.60	92.66	92.54	92.71	92.49

VA 70% light output

Voltage\Sample	1	2	3	4	5
210	96.558	96.616	96.500	96.674	96.442
220	95.612	95.669	95.555	95.727	95.497
230	97.796	97.855	97.737	97.913	97.679
240	97.464	97.522	97.406	97.581	97.347
250	97.325	97.383	97.267	97.442	97.208

Notes:

4. Test be conducted after operating for 12 hours to reach their steady load state.
5. The measurement uncertainties are for a confidence probability of not less than 98%.
6. 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	66.90	0.3318	0.954
220	50	65.80	0.3143	0.946
230	50	67.10	0.3101	0.941
240	50	67.40	0.3003	0.934
250	50	66.40	0.2872	0.925

Sample 2 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	66.94	0.3320	0.954
220	50	65.84	0.3145	0.946
230	50	67.14	0.3103	0.941
240	50	67.44	0.3005	0.934
250	50	66.44	0.2874	0.925

Sample 3 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	66.86	0.3316	0.954
220	50	65.76	0.3141	0.946
230	50	67.06	0.3099	0.941
240	50	67.36	0.3001	0.934
250	50	66.36	0.2870	0.925

Sample 4 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	66.98	0.3322	0.954
220	50	65.88	0.3147	0.946
230	50	67.18	0.3105	0.941
240	50	67.48	0.3007	0.934
250	50	66.48	0.2875	0.925

Sample 5 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	66.82	0.3314	0.954
220	50	65.72	0.3139	0.946
230	50	67.02	0.3097	0.941
240	50	67.32	0.2999	0.934
250	50	66.32	0.2869	0.925

Watts 50% light output

Voltage\Sample	1	2	3	4	5
210	66.90	66.94	66.86	66.98	66.82
220	65.80	65.84	65.76	65.88	65.72
230	67.10	67.14	67.06	67.18	67.02
240	67.40	67.44	67.36	67.48	67.32
250	66.40	66.44	66.36	66.48	66.32

VA 50% light output

Voltage\Sample	1	2	3	4	5
210	69.678	69.720	69.636	69.762	69.594
220	69.146	69.187	69.105	69.229	69.063
230	71.323	71.366	71.280	71.409	71.237
240	72.072	72.115	72.029	72.158	71.986
250	71.800	71.843	71.757	71.886	71.714

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

