

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:** 2015-04-22
4. **Issued Date:** 2015-04-27
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	130.90	0.6267	0.992
220	50	130.90	0.5991	0.991
230	50	130.80	0.5738	0.989
240	50	130.80	0.5508	0.987
250	50	130.80	0.5298	0.985

Sample 2 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	130.98	0.6271	0.992
220	50	130.98	0.5995	0.991
230	50	130.88	0.5741	0.989
240	50	130.88	0.5511	0.987
250	50	130.88	0.5301	0.985

Sample 3 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	130.82	0.6263	0.992
220	50	130.82	0.5987	0.991
230	50	130.72	0.5735	0.989
240	50	130.72	0.5505	0.987
250	50	130.72	0.5295	0.985

Sample 4 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	131.06	0.6275	0.992
220	50	131.06	0.5998	0.991
230	50	130.96	0.5745	0.989
240	50	130.96	0.5515	0.987
250	50	130.96	0.5304	0.985

Sample 5 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	130.74	0.6259	0.992
220	50	130.74	0.5984	0.991
230	50	130.64	0.5731	0.989
240	50	130.64	0.5501	0.987
250	50	130.64	0.5292	0.985

Watts 100% light output

Voltage\Sample	1	2	3	4	5
210	130.90	130.98	130.82	131.06	130.74
220	130.90	130.98	130.82	131.06	130.74
230	130.80	130.88	130.72	130.96	130.64
240	130.80	130.88	130.72	130.96	130.64
250	130.80	130.88	130.72	130.96	130.64

VA 100% light output

Voltage\Sample	1	2	3	4	5
210	131.607	131.686	131.528	131.765	131.449
220	131.802	131.881	131.723	131.960	131.644
230	131.974	132.053	131.895	132.132	131.816
240	132.192	132.271	132.113	132.351	132.033
250	132.450	132.529	132.371	132.609	132.291

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	92.70	0.4471	0.985
220	50	92.80	0.4281	0.983
230	50	92.80	0.4111	0.979
240	50	92.90	0.3958	0.975
250	50	92.90	0.3824	0.969

Sample 2 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	92.76	0.4474	0.985
220	50	92.86	0.4284	0.983
230	50	92.86	0.4113	0.979
240	50	92.96	0.3960	0.975
250	50	92.96	0.3826	0.969

Sample 3 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	92.64	0.4468	0.985
220	50	92.74	0.4278	0.983
230	50	92.74	0.4109	0.979
240	50	92.84	0.3956	0.975
250	50	92.84	0.3822	0.969

Sample 4 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	92.81	0.4476	0.985
220	50	92.91	0.4286	0.983
230	50	92.91	0.4116	0.979
240	50	93.01	0.3963	0.975
250	50	93.01	0.3829	0.969

Sample 5 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	92.59	0.4466	0.985
220	50	92.69	0.4276	0.983
230	50	92.69	0.4106	0.979
240	50	92.79	0.3953	0.975
250	50	92.79	0.3819	0.969

Watts 70% light output

Voltage\Sample	1	2	3	4	5
210	92.70	92.76	92.64	92.81	92.59
220	92.80	92.86	92.74	92.91	92.69
230	92.80	92.86	92.74	92.91	92.69
240	92.90	92.96	92.84	93.01	92.79
250	92.90	92.96	92.84	93.01	92.79

VA 70% light output

Voltage\Sample	1	2	3	4	5
210	93.891	93.947	93.835	94.004	93.778
220	94.182	94.239	94.125	94.295	94.069
230	94.553	94.610	94.496	94.666	94.440
240	94.992	95.049	94.935	95.106	94.878
250	95.600	95.657	95.543	95.715	95.485

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	64.30	0.3142	0.972
220	50	64.40	0.3025	0.965
230	50	64.40	0.2919	0.957
240	50	64.50	0.2822	0.950
250	50	64.50	0.2719	0.945

Sample 2 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	64.34	0.3144	0.972
220	50	64.44	0.3027	0.965
230	50	64.44	0.2921	0.957
240	50	64.54	0.2824	0.950
250	50	64.54	0.2721	0.945

Sample 3 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	64.26	0.3140	0.972
220	50	64.36	0.3023	0.965
230	50	64.36	0.2917	0.957
240	50	64.46	0.2820	0.950
250	50	64.46	0.2717	0.945

Sample 4 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	64.38	0.3146	0.972
220	50	64.48	0.3029	0.965
230	50	64.48	0.2923	0.957
240	50	64.58	0.2825	0.950
250	50	64.58	0.2722	0.945

Sample 5 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	64.22	0.3138	0.972
220	50	64.32	0.3021	0.965
230	50	64.32	0.2915	0.957
240	50	64.42	0.2819	0.950
250	50	64.42	0.2716	0.945

Watts 50% light output

Voltage\Sample	1	2	3	4	5
210	64.30	64.34	64.26	64.38	64.22
220	64.40	64.44	64.36	64.48	64.32
230	64.40	64.44	64.36	64.48	64.32
240	64.50	64.54	64.46	64.58	64.42
250	64.50	64.54	64.46	64.58	64.42

VA 50% light output

Voltage\Sample	1	2	3	4	5
210	65.982	66.022	65.942	66.061	65.903
220	66.550	66.590	66.510	66.630	66.470
230	67.137	67.177	67.097	67.218	67.056
240	67.728	67.769	67.687	67.809	67.647
250	67.975	68.016	67.934	68.057	67.893

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

