

TEST REPORT

SAMPLE INFORMATION:

1. **Sample Description:** LED Street Light
2. **Trade Mark:**
3. **Models:** ARIALED S70
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 S70



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	152.90	0.7309	0.994
220	50	152.80	0.6980	0.993
230	50	152.70	0.6682	0.992
240	50	152.60	0.6406	0.990
250	50	152.60	0.6157	0.989

Sample 2 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	152.99	0.7313	0.994
220	50	152.89	0.6984	0.993
230	50	152.79	0.6686	0.992
240	50	152.69	0.6410	0.990
250	50	152.69	0.6161	0.989

Sample 3 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	152.81	0.7305	0.994
220	50	152.71	0.6976	0.993
230	50	152.61	0.6678	0.992
240	50	152.51	0.6402	0.990
250	50	152.51	0.6153	0.989

Sample 4 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	153.08	0.7318	0.994
220	50	152.98	0.6988	0.993
230	50	152.88	0.6690	0.992
240	50	152.78	0.6414	0.990
250	50	152.78	0.6164	0.989

Sample 5 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	152.72	0.7300	0.994
220	50	152.62	0.6972	0.993
230	50	152.52	0.6674	0.992
240	50	152.42	0.6398	0.990
250	50	152.42	0.6150	0.989

Watts 100% light output

Voltage\Sample	1	2	3	4	5
210	152.90	152.99	152.81	153.08	152.72
220	152.80	152.89	152.71	152.98	152.62
230	152.70	152.79	152.61	152.88	152.52
240	152.60	152.69	152.51	152.78	152.42
250	152.60	152.69	152.51	152.78	152.42

VA 100% light output

Voltage\Sample	1	2	3	4	5
210	153.489	153.581	153.397	153.673	153.305
220	153.560	153.652	153.468	153.744	153.376
230	153.686	153.778	153.594	153.870	153.502
240	153.744	153.836	153.652	153.928	153.560
250	153.925	154.017	153.833	154.110	153.740

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	108.00	0.5191	0.989
220	50	108.10	0.4969	0.987
230	50	108.10	0.4761	0.985
240	50	108.10	0.4576	0.982
250	50	108.00	0.4408	0.978

Sample 2 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	108.06	0.5194	0.989
220	50	108.16	0.4972	0.987
230	50	108.16	0.4764	0.985
240	50	108.16	0.4579	0.982
250	50	108.06	0.4411	0.978

Sample 3 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	107.94	0.5188	0.989
220	50	108.04	0.4966	0.987
230	50	108.04	0.4758	0.985
240	50	108.04	0.4573	0.982
250	50	107.94	0.4405	0.978

Sample 4 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	108.13	0.5197	0.989
220	50	108.23	0.4975	0.987
230	50	108.23	0.4767	0.985
240	50	108.23	0.4581	0.982
250	50	108.13	0.4413	0.978

Sample 5 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	107.87	0.5185	0.989
220	50	107.97	0.4963	0.987
230	50	107.97	0.4755	0.985
240	50	107.97	0.4571	0.982
250	50	107.87	0.4403	0.978

Watts 70% light output

Voltage\Sample	1	2	3	4	5
210	108.00	108.06	107.94	108.13	107.87
220	108.10	108.16	108.04	108.23	107.97
230	108.10	108.16	108.04	108.23	107.97
240	108.10	108.16	108.04	108.23	107.97
250	108.00	108.06	107.94	108.13	107.87

VA 70% light output

Voltage\Sample	1	2	3	4	5
210	109.011	109.076	108.946	109.142	108.880
220	109.318	109.384	109.252	109.449	109.187
230	109.503	109.569	109.437	109.634	109.372
240	109.824	109.890	109.758	109.956	109.692
250	110.200	110.266	110.134	110.332	110.068

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	74.30	0.3609	0.978
220	50	74.40	0.3464	0.974
230	50	74.40	0.3336	0.968
240	50	74.50	0.3222	0.960
250	50	74.50	0.3122	0.954

Sample 2 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	74.34	0.3611	0.978
220	50	74.44	0.3466	0.974
230	50	74.44	0.3338	0.968
240	50	74.54	0.3224	0.960
250	50	74.54	0.3124	0.954

Sample 3 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	74.26	0.3607	0.978
220	50	74.36	0.3462	0.974
230	50	74.36	0.3334	0.968
240	50	74.46	0.3220	0.960
250	50	74.46	0.3120	0.954

Sample 4 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	74.39	0.3613	0.978
220	50	74.49	0.3468	0.974
230	50	74.49	0.3340	0.968
240	50	74.59	0.3226	0.960
250	50	74.59	0.3126	0.954

Sample 5 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	74.21	0.3605	0.978
220	50	74.31	0.3460	0.974
230	50	74.31	0.3332	0.968
240	50	74.41	0.3218	0.960
250	50	74.41	0.3118	0.954

Watts 50% light output

Voltage\Sample	1	2	3	4	5
210	74.30	74.34	74.26	74.39	74.21
220	74.40	74.44	74.36	74.49	74.31
230	74.40	74.44	74.36	74.49	74.31
240	74.50	74.54	74.46	74.59	74.41
250	74.50	74.54	74.46	74.59	74.41

VA 50% light output

Voltage\Sample	1	2	3	4	5
210	75.789	75.834	75.744	75.880	75.698
220	76.208	76.254	76.162	76.299	76.117
230	76.728	76.774	76.682	76.820	76.636
240	77.328	77.374	77.282	77.421	77.235
250	78.050	78.097	78.003	78.144	77.956

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

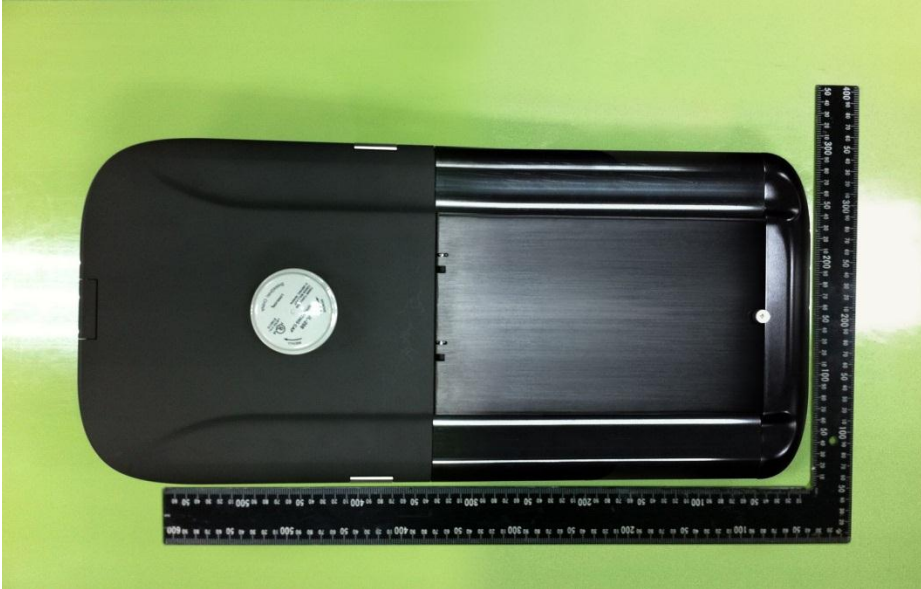


Photo 2 View of EUT

