


TEST REPORT

SAMPLE INFORMATION:

1. **Sample Description:** LED Street Light
2. **Trade Mark:** 
3. **Models:** ARIALED S140
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 S140

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	305.70	1.4637	0.995
220	50	305.00	1.3951	0.995
230	50	304.60	1.3332	0.994
240	50	304.10	1.2769	0.993
250	50	303.70	1.2253	0.992

Sample 2 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	305.88	1.4646	0.995
220	50	305.18	1.3959	0.995
230	50	304.78	1.3340	0.994
240	50	304.28	1.2777	0.993
250	50	303.88	1.2260	0.992

Sample 3 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	305.52	1.4628	0.995
220	50	304.82	1.3943	0.995
230	50	304.42	1.3324	0.994
240	50	303.92	1.2761	0.993
250	50	303.52	1.2246	0.992

Sample 4 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	306.07	1.4655	0.995
220	50	305.37	1.3968	0.995
230	50	304.97	1.3348	0.994
240	50	304.46	1.2784	0.993
250	50	304.06	1.2268	0.992

Sample 5 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	305.33	1.4619	0.995
220	50	304.63	1.3934	0.995
230	50	304.23	1.3316	0.994
240	50	303.74	1.2754	0.993
250	50	303.34	1.2238	0.992

Watts 100% light output

Voltage\Sample	1	2	3	4	5
210	305.70	305.88	305.52	306.07	305.33
220	305.00	305.18	304.82	305.37	304.63
230	304.60	304.78	304.42	304.97	304.23
240	304.10	304.28	303.92	304.46	303.74
250	303.70	303.88	303.52	304.06	303.34

VA 100% light output

Voltage\Sample	1	2	3	4	5
210	307.377	307.561	307.193	307.746	307.008
220	306.922	307.106	306.738	307.290	306.554
230	306.636	306.820	306.452	307.004	306.268
240	306.456	306.640	306.272	306.824	306.088
250	306.325	306.509	306.141	306.693	305.957

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	209.90	1.0080	0.992
220	50	209.60	0.9619	0.991
230	50	209.40	0.9207	0.989
240	50	209.20	0.8829	0.988
250	50	209.10	0.8484	0.986

Sample 2 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	210.03	1.0086	0.992
220	50	209.73	0.9625	0.991
230	50	209.53	0.9213	0.989
240	50	209.33	0.8834	0.988
250	50	209.23	0.8489	0.986

Sample 3 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	209.77	1.0074	0.992
220	50	209.47	0.9613	0.991
230	50	209.27	0.9201	0.989
240	50	209.07	0.8824	0.988
250	50	208.97	0.8479	0.986

Sample 4 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	210.15	1.0092	0.992
220	50	209.85	0.9631	0.991
230	50	209.65	0.9218	0.989
240	50	209.45	0.8840	0.988
250	50	209.35	0.8494	0.986

Sample 5 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	209.65	1.0068	0.992
220	50	209.35	0.9607	0.991
230	50	209.15	0.9196	0.989
240	50	208.95	0.8818	0.988
250	50	208.85	0.8474	0.986

Watts 70% light output

Voltage\Sample	1	2	3	4	5
210	209.90	210.03	209.77	210.15	209.65
220	209.60	209.73	209.47	209.85	209.35
230	209.40	209.53	209.27	209.65	209.15
240	209.20	209.33	209.07	209.45	208.95
250	209.10	209.23	208.97	209.35	208.85

VA 70% light output

Voltage\Sample	1	2	3	4	5
210	211.680	211.807	211.553	211.934	211.426
220	211.618	211.745	211.491	211.872	211.364
230	211.761	211.888	211.634	212.015	211.507
240	211.896	212.023	211.769	212.150	211.642
250	212.100	212.227	211.973	212.355	211.845

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	149.40	0.7218	0.986
220	50	149.30	0.6900	0.984
230	50	149.30	0.6614	0.981
240	50	149.10	0.6349	0.979
250	50	149.10	0.6112	0.976

Sample 2 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	149.49	0.7222	0.986
220	50	149.39	0.6904	0.984
230	50	149.39	0.6618	0.981
240	50	149.19	0.6353	0.979
250	50	149.19	0.6116	0.976

Sample 3 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	149.31	0.7214	0.986
220	50	149.21	0.6896	0.984
230	50	149.21	0.6610	0.981
240	50	149.01	0.6345	0.979
250	50	149.01	0.6108	0.976

Sample 4 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	149.58	0.7227	0.986
220	50	149.48	0.6908	0.984
230	50	149.48	0.6622	0.981
240	50	149.28	0.6357	0.979
250	50	149.28	0.6119	0.976

Sample 5 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	149.22	0.7209	0.986
220	50	149.12	0.6892	0.984
230	50	149.12	0.6606	0.981
240	50	148.92	0.6341	0.979
250	50	148.92	0.6105	0.976

Watts 50% light output

Voltage\Sample	1	2	3	4	5
210	149.40	149.49	149.31	149.58	149.22
220	149.30	149.39	149.21	149.48	149.12
230	149.30	149.39	149.21	149.48	149.12
240	149.10	149.19	149.01	149.28	148.92
250	149.10	149.19	149.01	149.28	148.92

VA 50% light output

Voltage\Sample	1	2	3	4	5
210	151.578	151.669	151.487	151.760	151.396
220	151.800	151.891	151.709	151.982	151.618
230	152.122	152.213	152.031	152.305	151.939
240	152.376	152.467	152.285	152.559	152.193
250	152.800	152.892	152.708	152.983	152.617

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

