

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:** 2015-03-25
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	154.60	0.7396	0.995
220	50	154.20	0.7048	0.994
230	50	153.80	0.6728	0.994
240	50	152.40	0.6420	0.993
250	50	153.00	0.6168	0.992

Sample 2 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	154.69	0.7400	0.995
220	50	154.29	0.7052	0.994
230	50	153.89	0.6732	0.994
240	50	152.49	0.6424	0.993
250	50	153.09	0.6172	0.992

Sample 3 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	154.51	0.7392	0.995
220	50	154.11	0.7044	0.994
230	50	153.71	0.6724	0.994
240	50	152.31	0.6416	0.993
250	50	152.91	0.6164	0.992

Sample 4 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	154.79	0.7405	0.995
220	50	154.39	0.7056	0.994
230	50	153.98	0.6736	0.994
240	50	152.58	0.6428	0.993
250	50	153.18	0.6175	0.992

Sample 5 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	154.41	0.7387	0.995
220	50	154.01	0.7040	0.994
230	50	153.62	0.6720	0.994
240	50	152.22	0.6412	0.993
250	50	152.82	0.6161	0.992

Watts 100% light output

Voltage\Sample	1	2	3	4	5
210	154.60	154.69	154.51	154.79	154.41
220	154.20	154.29	154.11	154.39	154.01
230	153.80	153.89	153.71	153.98	153.62
240	152.40	152.49	152.31	152.58	152.22
250	153.00	153.09	152.91	153.18	152.82

VA 100% light output

Voltage\Sample	1	2	3	4	5
210	155.316	155.409	155.223	155.502	155.130
220	155.056	155.149	154.963	155.242	154.870
230	154.744	154.837	154.651	154.930	154.558
240	154.080	154.172	153.988	154.265	153.895
250	154.200	154.293	154.107	154.385	154.015

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	106.20	0.5095	0.992
220	50	105.90	0.4858	0.990
230	50	105.80	0.4651	0.989
240	50	105.50	0.4453	0.987
250	50	106.20	0.4290	0.986

Sample 2 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	106.26	0.5098	0.992
220	50	105.96	0.4861	0.990
230	50	105.86	0.4654	0.989
240	50	105.56	0.4456	0.987
250	50	106.26	0.4293	0.986

Sample 3 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	106.14	0.5092	0.992
220	50	105.84	0.4855	0.990
230	50	105.74	0.4648	0.989
240	50	105.44	0.4450	0.987
250	50	106.14	0.4287	0.986

Sample 4 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	106.33	0.5101	0.992
220	50	106.03	0.4864	0.990
230	50	105.93	0.4657	0.989
240	50	105.63	0.4458	0.987
250	50	106.33	0.4295	0.986

Sample 5 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	106.07	0.5089	0.992
220	50	105.77	0.4852	0.990
230	50	105.67	0.4645	0.989
240	50	105.37	0.4448	0.987
250	50	106.07	0.4285	0.986

Watts 70% light output

Voltage\Sample	1	2	3	4	5
210	106.20	106.26	106.14	106.33	106.07
220	105.90	105.96	105.84	106.03	105.77
230	105.80	105.86	105.74	105.93	105.67
240	105.50	105.56	105.44	105.63	105.37
250	106.20	106.26	106.14	106.33	106.07

VA 70% light output

Voltage\Sample	1	2	3	4	5
210	106.995	107.059	106.931	107.123	106.867
220	106.876	106.940	106.812	107.004	106.748
230	106.973	107.037	106.909	107.101	106.845
240	106.872	106.936	106.808	107.000	106.744
250	107.250	107.314	107.186	107.379	107.121

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	75.60	0.3653	0.985
220	50	75.50	0.3488	0.983
230	50	74.90	0.3332	0.981
240	50	75.40	0.3208	0.978
250	50	75.17	0.3083	0.975

Sample 2 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	75.65	0.3655	0.985
220	50	75.55	0.3490	0.983
230	50	74.94	0.3334	0.981
240	50	75.45	0.3210	0.978
250	50	75.22	0.3085	0.975

Sample 3 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	75.55	0.3651	0.985
220	50	75.45	0.3486	0.983
230	50	74.86	0.3330	0.981
240	50	75.35	0.3206	0.978
250	50	75.12	0.3081	0.975

Sample 4 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	75.69	0.3657	0.985
220	50	75.59	0.3492	0.983
230	50	74.99	0.3336	0.981
240	50	75.49	0.3212	0.978
250	50	75.26	0.3087	0.975

Sample 5 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	75.51	0.3649	0.985
220	50	75.41	0.3484	0.983
230	50	74.81	0.3328	0.981
240	50	75.31	0.3204	0.978
250	50	75.08	0.3079	0.975

Watts 50% light output

Voltage\Sample	1	2	3	4	5
210	75.60	75.65	75.55	75.69	75.51
220	75.50	75.55	75.45	75.59	75.41
230	74.90	74.94	74.86	74.99	74.81
240	75.40	75.45	75.35	75.49	75.31
250	75.17	75.22	75.12	75.26	75.08

VA 50% light output

Voltage\Sample	1	2	3	4	5
210	76.713	76.759	76.667	76.805	76.621
220	76.736	76.782	76.690	76.828	76.644
230	76.636	76.682	76.590	76.728	76.544
240	76.992	77.038	76.946	77.084	76.900
250	77.075	77.121	77.029	77.167	76.983

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

