

# TEST REPORT

## SAMPLE INFORMATION:

1. **Sample Description:** LED Street Light
2. **Trade Mark:**
3. **Models:** ARIALED 50 dim to 70%
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 50



## 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:** 2013-06-04
4. **Issued Date:** 2013-06-10
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

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	37.90	0.185	0.970
220	50	38.00	0.179	0.965
230	50	38.10	0.172	0.959
240	50	38.30	0.167	0.953
250	50	38.40	0.162	0.946

### Sample 2

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	37.90	0.185	0.969
220	50	37.90	0.179	0.964
230	50	38.00	0.172	0.957
240	50	38.20	0.167	0.952
250	50	38.30	0.162	0.945

### Sample 3

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	38.00	0.186	0.970
220	50	38.10	0.178	0.966
230	50	38.20	0.173	0.958
240	50	38.20	0.167	0.954
250	50	38.40	0.162	0.947

### Sample 4

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	38.00	0.185	0.970
220	50	38.10	0.178	0.964
230	50	38.10	0.173	0.958
240	50	38.30	0.167	0.955
250	50	38.40	0.162	0.945

### Sample 5

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	37.90	0.186	0.971
220	50	38.00	0.179	0.964
230	50	38.00	0.173	0.958
240	50	38.20	0.167	0.953
250	50	38.50	0.162	0.945

### Watts

Voltage \ Sample	1	2	3	4	5
210	37.90	37.90	38.00	38.00	37.90
220	38.00	37.90	38.10	38.10	38.00
230	38.10	38.00	38.20	38.10	38.00
240	38.30	38.20	38.20	38.30	38.20
250	38.40	38.30	38.40	38.40	38.50

### VA

Voltage \ Sample	1	2	3	4	5
210	38.934	38.892	38.955	38.913	38.976
220	39.270	39.292	39.248	39.226	39.314
230	39.652	39.629	39.675	39.698	39.675
240	40.056	40.032	40.008	40.056	40.032
250	40.525	40.475	40.500	40.550	40.525

### 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),  $U_{rel}(v)=0.1\%$  ,  $U_{rel}(w)=0.1\%$  ,  $U_{rel}(i)=0.2\%$  ,  $U_{rel}(f)=0.05\%$  ,  $U_{rel}(PF)=0.5$

### Photograph of Sample

Photo 1 View of EUT



Photo 2 View of EUT

