Delta Electronics, Inc.
252 Shangying Road, Guishan Industrial Zone,
Taoyuan County 33341, Taiwan, R.O.C.
TEL : +886-3-359-1968

TEST REPORT

SAMPLE INFORMATION:

1. **Sample Description:** LED Street Light
2. **Trade Mark:**
3. **Models:** ARIALED S130
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 S130

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.

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Sample 1 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	285.20	1.3664	0.995
220	50	284.60	1.3023	0.994
230	50	284.20	1.2445	0.993
240	50	283.80	1.1925	0.992
250	50	283.40	1.1441	0.991

Sample 2 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	285.37	1.3672	0.995
220	50	284.77	1.3031	0.994
230	50	284.37	1.2452	0.993
240	50	283.97	1.1932	0.992
250	50	283.57	1.1448	0.991

Sample 3 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	285.03	1.3656	0.995
220	50	284.43	1.3015	0.994
230	50	284.03	1.2438	0.993
240	50	283.63	1.1918	0.992
250	50	283.23	1.1434	0.991

Sample 4 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	285.54	1.3680	0.995
220	50	284.94	1.3039	0.994
230	50	284.54	1.2460	0.993
240	50	284.14	1.1939	0.992
250	50	283.74	1.1455	0.991

Sample 5 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	284.86	1.3648	0.995
220	50	284.26	1.3007	0.994
230	50	283.86	1.2430	0.993
240	50	283.46	1.1911	0.992
250	50	283.06	1.1427	0.991

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Watts 100% light output

Voltage\Sample	1	2	3	4	5
210	285.20	285.37	285.03	285.54	284.86
220	284.60	284.77	284.43	284.94	284.26
230	284.20	284.37	284.03	284.54	283.86
240	283.80	283.97	283.63	284.14	283.46
250	283.40	283.57	283.23	283.74	283.06

VA 100% light output

Voltage\Sample	1	2	3	4	5
210	286.944	287.116	286.772	287.288	286.600
220	286.506	286.678	286.334	286.850	286.162
230	286.235	286.407	286.063	286.578	285.892
240	286.200	286.372	286.028	286.543	285.857
250	286.025	286.197	285.853	286.368	285.682

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

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Sample 1 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	195.80	0.9410	0.991
220	50	195.50	0.8982	0.989
230	50	195.20	0.8593	0.988
240	50	195.10	0.8243	0.986
250	50	194.90	0.7921	0.984

Sample 2 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	195.92	0.9416	0.991
220	50	195.62	0.8987	0.989
230	50	195.32	0.8598	0.988
240	50	195.22	0.8248	0.986
250	50	195.02	0.7926	0.984

Sample 3 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	195.68	0.9404	0.991
220	50	195.38	0.8977	0.989
230	50	195.08	0.8588	0.988
240	50	194.98	0.8238	0.986
250	50	194.78	0.7916	0.984

Sample 4 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	196.03	0.9421	0.991
220	50	195.73	0.8993	0.989
230	50	195.43	0.8603	0.988
240	50	195.33	0.8253	0.986
250	50	195.13	0.7931	0.984

Sample 5 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	195.57	0.9399	0.991
220	50	195.27	0.8971	0.989
230	50	194.97	0.8583	0.988
240	50	194.87	0.8233	0.986
250	50	194.67	0.7911	0.984

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Watts 70% light output

Voltage\Sample	1	2	3	4	5
210	195.80	195.92	195.68	196.03	195.57
220	195.50	195.62	195.38	195.73	195.27
230	195.20	195.32	195.08	195.43	194.97
240	195.10	195.22	194.98	195.33	194.87
250	194.90	195.02	194.78	195.13	194.67

VA 70% light output

Voltage\Sample	1	2	3	4	5
210	197.610	197.729	197.491	197.847	197.373
220	197.604	197.723	197.485	197.841	197.367
230	197.639	197.758	197.520	197.876	197.402
240	197.832	197.951	197.713	198.069	197.595
250	198.025	198.144	197.906	198.263	197.787

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

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Sample 1 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	139.30	0.6744	0.984
220	50	139.30	0.6449	0.982
230	50	139.20	0.6182	0.979
240	50	139.00	0.5936	0.976
250	50	138.90	0.5712	0.973

Sample 2 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	139.38	0.6748	0.984
220	50	139.38	0.6453	0.982
230	50	139.28	0.6186	0.979
240	50	139.08	0.5940	0.976
250	50	138.98	0.5715	0.973

Sample 3 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	139.22	0.6740	0.984
220	50	139.22	0.6445	0.982
230	50	139.12	0.6178	0.979
240	50	138.92	0.5932	0.976
250	50	138.82	0.5709	0.973

Sample 4 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	139.47	0.6752	0.984
220	50	139.47	0.6457	0.982
230	50	139.37	0.6189	0.979
240	50	139.17	0.5943	0.976
250	50	139.07	0.5719	0.973

Sample 5 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	139.13	0.6736	0.984
220	50	139.13	0.6441	0.982
230	50	139.03	0.6175	0.979
240	50	138.83	0.5929	0.976
250	50	138.73	0.5705	0.973

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Watts 50% light output

Voltage\Sample	1	2	3	4	5
210	139.30	139.38	139.22	139.47	139.13
220	139.30	139.38	139.22	139.47	139.13
230	139.20	139.28	139.12	139.37	139.03
240	139.00	139.08	138.92	139.17	138.83
250	138.90	138.98	138.82	139.07	138.73

VA 50% light output

Voltage\Sample	1	2	3	4	5
210	141.624	141.709	141.539	141.794	141.454
220	141.878	141.963	141.793	142.048	141.708
230	142.186	142.271	142.101	142.357	142.015
240	142.464	142.549	142.379	142.635	142.293
250	142.800	142.886	142.714	142.971	142.629

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

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Photograph of Sample

Photo 1View of EUT

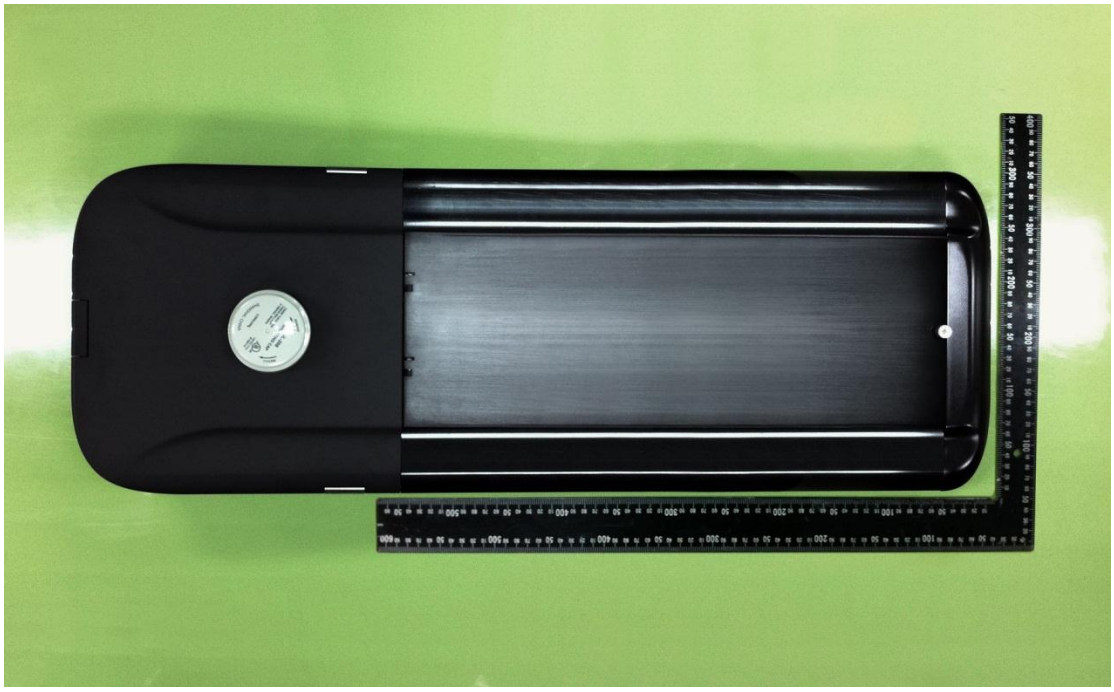

Photo 2 View of EUT