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 S120
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 S120

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	264.50	1.2678	0.994
220	50	264.00	1.2084	0.993
230	50	263.50	1.1551	0.992
240	50	263.10	1.1062	0.991
250	50	262.80	1.0622	0.990

Sample 2 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	264.66	1.2686	0.994
220	50	264.16	1.2091	0.993
230	50	263.66	1.1558	0.992
240	50	263.26	1.1069	0.991
250	50	262.96	1.0628	0.990

Sample 3 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	264.34	1.2670	0.994
220	50	263.84	1.2077	0.993
230	50	263.34	1.1544	0.992
240	50	262.94	1.1055	0.991
250	50	262.64	1.0616	0.990

Sample 4 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	264.82	1.2693	0.994
220	50	264.32	1.2099	0.993
230	50	263.82	1.1565	0.992
240	50	263.42	1.1075	0.991
250	50	263.12	1.0635	0.990

Sample 5 100% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	264.18	1.2663	0.994
220	50	263.68	1.2069	0.993
230	50	263.18	1.1537	0.992
240	50	262.78	1.1049	0.991
250	50	262.48	1.0609	0.990

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Watts 100% light output

Voltage\Sample	1	2	3	4	5
210	264.50	264.66	264.34	264.82	264.18
220	264.00	264.16	263.84	264.32	263.68
230	263.50	263.66	263.34	263.82	263.18
240	263.10	263.26	262.94	263.42	262.78
250	262.80	262.96	262.64	263.12	262.48

VA 100% light output

Voltage\Sample	1	2	3	4	5
210	266.238	266.398	266.078	266.557	265.919
220	265.848	266.008	265.688	266.167	265.529
230	265.673	265.832	265.514	265.992	265.354
240	265.488	265.647	265.329	265.807	265.169
250	265.550	265.709	265.391	265.869	265.231

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	181.30	0.8723	0.989
220	50	181.00	0.8330	0.988
230	50	180.90	0.7973	0.986
240	50	180.70	0.7649	0.984
250	50	180.50	0.7351	0.982

Sample 2 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	181.41	0.8728	0.989
220	50	181.11	0.8335	0.988
230	50	181.01	0.7978	0.986
240	50	180.81	0.7654	0.984
250	50	180.61	0.7355	0.982

Sample 3 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	181.19	0.8718	0.989
220	50	180.89	0.8325	0.988
230	50	180.79	0.7968	0.986
240	50	180.59	0.7644	0.984
250	50	180.39	0.7347	0.982

Sample 4 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	181.52	0.8733	0.989
220	50	181.22	0.8340	0.988
230	50	181.12	0.7983	0.986
240	50	180.92	0.7658	0.984
250	50	180.72	0.7360	0.982

Sample 5 70% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	181.08	0.8713	0.989
220	50	180.78	0.8320	0.988
230	50	180.68	0.7963	0.986
240	50	180.48	0.7640	0.984
250	50	180.28	0.7342	0.982

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Watts 70% light output

Voltage\Sample	1	2	3	4	5
210	181.30	181.41	181.19	181.52	181.08
220	181.00	181.11	180.89	181.22	180.78
230	180.90	181.01	180.79	181.12	180.68
240	180.70	180.81	180.59	180.92	180.48
250	180.50	180.61	180.39	180.72	180.28

VA 70% light output

Voltage\Sample	1	2	3	4	5
210	183.183	183.293	183.073	183.403	182.963
220	183.260	183.370	183.150	183.480	183.040
230	183.379	183.489	183.269	183.599	183.159
240	183.576	183.686	183.466	183.796	183.356
250	183.775	183.885	183.665	183.996	183.554

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	129.10	0.6262	0.982
220	50	129.00	0.5988	0.979
230	50	128.90	0.5741	0.976
240	50	128.80	0.5517	0.972
250	50	128.80	0.5316	0.969

Sample 2 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	129.18	0.6266	0.982
220	50	129.08	0.5992	0.979
230	50	128.98	0.5744	0.976
240	50	128.88	0.5520	0.972
250	50	128.88	0.5319	0.969

Sample 3 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	129.02	0.6258	0.982
220	50	128.92	0.5984	0.979
230	50	128.82	0.5738	0.976
240	50	128.72	0.5514	0.972
250	50	128.72	0.5313	0.969

Sample 4 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	129.25	0.6270	0.982
220	50	129.15	0.5995	0.979
230	50	129.05	0.5748	0.976
240	50	128.95	0.5524	0.972
250	50	128.95	0.5322	0.969

Sample 5 50% light output

Input voltage(V)	Frequency(Hz)	Input power(W)	Input current(A)	Power factor
210	50	128.95	0.6254	0.982
220	50	128.85	0.5981	0.979
230	50	128.75	0.5734	0.976
240	50	128.65	0.5510	0.972
250	50	128.65	0.5310	0.969

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Watts 50% light output

Voltage\Sample	1	2	3	4	5
210	129.10	129.18	129.02	129.25	128.95
220	129.00	129.08	128.92	129.15	128.85
230	128.90	128.98	128.82	129.05	128.75
240	128.80	128.88	128.72	128.95	128.65
250	128.80	128.88	128.72	128.95	128.65

VA 50% light output

Voltage\Sample	1	2	3	4	5
210	131.502	131.581	131.423	131.660	131.344
220	131.736	131.815	131.657	131.894	131.578
230	132.043	132.122	131.964	132.201	131.885
240	132.408	132.487	132.329	132.567	132.249
250	132.900	132.980	132.820	133.059	132.741

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