

Prüfbericht-Nr.: Test Report No.:	50113999 001	Auftrags-Nr.: Order No.:	114071979	Seite 1 von 1 Page 1 of 1																								
Kunden-Referenz-Nr.: Client Reference No.:	12102276	Auftragsdatum: Order date:	04.12.2017																									
Auftraggeber: Client:	OrangeTek Limited Coach House, Blakenhall Park, Bar Lane, Barton under Needwood, Burton upon Trent DE13 8AJ, United Kingdom																											
Prüfgegenstand: Test item:	LED Street Light																											
Bezeichnung / Typ-Nr.: Identification / Type No.:	IGNIS 1 36 LED 37W																											
Auftrags-Inhalt: Order content:	TÜV Rheinland - Test report																											
Prüfgrundlage: Test specification:	Electrical Parameter measurement																											
Wareneingangsdatum: Date of receipt:	13.12.2017	See photos attached in report.																										
Prüfmuster-Nr.: Test sample No.:	A000666750																											
Prüfzeitraum: Testing period:	14.12.2017 – 15.12.2017																											
Ort der Prüfung: Place of testing:	TÜV Rheinland Taiwan Ltd., Taichung Branch																											
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Taiwan Ltd., Taichung Branch																											
Prüfergebnis*: Test result*:	Siehe Sonstiges / See Other																											
geprüft von / tested by:		kontrolliert von / reviewed by:																										
18. Dec., 2017 Ryan C.M. Hsieh / Engineer		20. Dec., 2017 Jordan Wu / Technical Certifier																										
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position																								
Sonstiges / Other: This test report consists of 5 pages for test results of input power, input current, power factor and VA.																												
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged																										
<table border="0"> <tr> <td>* Legende:</td> <td>1 = sehr gut</td> <td>2 = gut</td> <td>3 = befriedigend</td> <td>4 = ausreichend</td> <td>5 = mangelhaft</td> </tr> <tr> <td></td> <td>P(ass) = entspricht o.g. Prüfgrundlage(n)</td> <td>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</td> <td>N/A = nicht anwendbar</td> <td>N/T = nicht getestet</td> <td></td> </tr> <tr> <td>Legend:</td> <td>1 = very good</td> <td>2 = good</td> <td>3 = satisfactory</td> <td>4 = sufficient</td> <td>5 = poor</td> </tr> <tr> <td></td> <td>P(ass) = passed a.m. test specification(s)</td> <td>F(ail) = failed a.m. test specification(s)</td> <td>N/A = not applicable</td> <td>N/T = not tested</td> <td></td> </tr> </table>					* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft		P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet		Legend:	1 = very good	2 = good	3 = satisfactory	4 = sufficient	5 = poor		P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested	
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<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>																												



TEST DATA

LED Street Light – Electrical Parameter Measurement

Report Number.: 50113999 001

Order Number.: 114071979

Date of issue: See cover page

Total number of pages: 5 pages

**Name of Testing Laboratory
preparing the Report**.....: TÜV Rheinland Taiwan Ltd., Taichung Branch

Applicant's name.....: OrangeTek Limited

Address: Coach House, Blakenhall Park, Bar Lane, Barton under Needwood,
Burton upon Trent DE13 8AJ, United Kingdom

Test item description: LED Street Light

Trade Mark: **OrangeTek** 

Manufacturer.....: OrangeTek Limited Taiwan Branch
Rm. B1, 18F., No.51, Sec. 2, Gongyi Rd., Nantun Dist., Taichung
City 408, Taiwan

Model/Type reference: IGNIS 1 36 LED 37W

Testing.....: **Input power, input current, power factor and VA**

Date of receipt of test item.....: **13.12.2017**

Date (s) of performance of tests...: **14.12.2017-15.12.2017**

Summary of testing:

1. This project is for LED Street Light Electrical Parameter Measurement for input power, input current and power factor and VA under 100% light output with original setting by manufacturer.
2. Tests are conducted at ambient temperature 25°C.
3. Five samples are tested and each sample is tested under input voltage AC 210V/50Hz, AC 220V/50Hz, AC 230V/50Hz, AC 240V/50Hz and AC 250V/50Hz.

All above conditions are requested by client.

General remark:

This test report is valid for received test samples only and shall not be reproduced in part without approval of testing laboratory.

Sample 1 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	35.2	0.174	0.964
220	50	35.2	0.167	0.960
230	50	35.2	0.160	0.954
240	50	35.3	0.155	0.949
250	50	35.3	0.150	0.942

Sample 2 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	35.1	0.173	0.966
220	50	35.1	0.166	0.961
230	50	35.2	0.160	0.956
240	50	35.2	0.154	0.951
250	50	35.3	0.149	0.945

Sample 3 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	35.1	0.172	0.971
220	50	35.2	0.165	0.967
230	50	35.2	0.159	0.963
240	50	35.2	0.153	0.958
250	50	35.3	0.148	0.953

Sample 4 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	34.8	0.172	0.963
220	50	34.8	0.165	0.958
230	50	34.9	0.159	0.953
240	50	34.9	0.154	0.947
250	50	34.9	0.149	0.940

Sample 5 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	34.9	0.173	0.964
220	50	35.0	0.167	0.959
230	50	35.0	0.160	0.953
240	50	35.0	0.154	0.947
250	50	35.1	0.149	0.941

Measured wattage at 100% light output

Voltage(V)/Sample	1 (W)	2 (W)	3 (W)	4 (W)	5 (W)
210	35.2	35.1	35.1	34.8	34.9
220	35.2	35.1	35.2	34.8	35.0
230	35.2	35.2	35.2	34.9	35.0
240	35.3	35.2	35.2	34.9	35.0
250	35.3	35.3	35.3	34.9	35.1

Measured VA at 100% light output

Voltage(V)/Sample	1 (VA)	2 (VA)	3 (VA)	4 (VA)	5 (VA)
210	34.5	36.4	36.2	36.1	36.2
220	34.7	36.6	36.4	36.4	36.5
230	36.9	36.8	36.6	36.6	36.7
240	37.2	37.1	36.8	36.9	37.0
250	37.4	37.3	37.0	37.1	37.3

Notes: Tests were conducted after operating to reach their steady load state.

Photo Documentation



Picture 1 Rear side of EUT



Picture 2 Front side of EUT