

Prüfbericht-Nr.: Test Report No.:	50113992 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 76W			
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:		
 19 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		
* 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				
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. 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.				

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TEST DATA

LED Street Light – Electrical Parameter Measurement

Report Number.: 50113992 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 76W

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	78.0	0.375	0.990
220	50	77.9	0.358	0.988
230	50	77.8	0.343	0.986
240	50	77.7	0.329	0.985
250	50	77.7	0.316	0.983

Sample 2 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	77.6	0.373	0.990
220	50	77.5	0.356	0.988
230	50	77.5	0.341	0.987
240	50	77.4	0.327	0.985
250	50	77.4	0.315	0.983

Sample 3 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	77.8	0.374	0.991
220	50	77.8	0.357	0.990
230	50	77.7	0.342	0.989
240	50	77.7	0.328	0.987
250	50	77.6	0.315	0.986

Sample 4 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	76.3	0.367	0.989
220	50	76.3	0.351	0.987
230	50	76.2	0.336	0.986
240	50	76.2	0.323	0.984
250	50	76.1	0.310	0.982

Sample 5 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	76.7	0.369	0.989
220	50	76.7	0.353	0.988
230	50	76.6	0.338	0.986
240	50	76.6	0.324	0.984
250	50	76.5	0.312	0.982

Measured wattage at 100% light output

Voltage(V)/Sample	1 (W)	2 (W)	3 (W)	4 (W)	5 (W)
210	78.0	77.6	77.8	76.3	76.7
220	77.9	77.5	77.8	76.3	76.7
230	77.8	77.5	77.7	76.2	76.6
240	77.7	77.4	77.7	76.2	76.6
250	77.7	77.4	77.6	76.1	76.5

Measured VA at 100% light output

Voltage(V)/Sample	1 (VA)	2 (VA)	3 (VA)	4 (VA)	5 (VA)
210	78.8	78.4	78.5	77.2	77.6
220	78.8	78.4	78.5	77.2	77.6
230	78.9	78.5	78.6	77.3	77.7
240	79.0	78.6	78.7	77.4	77.8
250	79.1	78.7	78.8	77.6	77.9

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