

Prüfbericht-Nr.: Test Report No.:	50114004 001	Auftrags-Nr.: Order No.:	114071980	Seite 1 von 1 Page 1 of 1
Kunden-Referenz-Nr.: Client Reference No.:	12102279	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 72 LED 58W			
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		
<p>* 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</p> <p>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</p>				
<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. 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.</p>				



TEST DATA

LED Street Light – Electrical Parameter Measurement

Report Number.: 50114004 001

Order Number.: 114071980

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 72 LED 58W

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	58.4	0.283	0.984
220	50	58.4	0.271	0.982
230	50	58.4	0.259	0.979
240	50	58.4	0.249	0.976
250	50	58.4	0.240	0.973

Sample 2 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	58.4	0.282	0.985
220	50	58.3	0.270	0.982
230	50	58.3	0.259	0.980
240	50	58.3	0.248	0.977
250	50	58.3	0.239	0.974

Sample 3 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	58.4	0.282	0.987
220	50	58.3	0.269	0.985
230	50	58.3	0.258	0.983
240	50	58.3	0.248	0.981
250	50	58.3	0.238	0.978

Sample 4 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	57.5	0.279	0.983
220	50	57.5	0.266	0.981
230	50	57.5	0.255	0.978
240	50	57.5	0.245	0.975
250	50	57.4	0.236	0.972

Sample 5 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	59.4	0.287	0.984
220	50	59.3	0.274	0.982
230	50	59.3	0.263	0.979
240	50	59.3	0.253	0.976
250	50	59.3	0.243	0.973

Measured wattage at 100% light output

Voltage(V)/Sample	1 (W)	2 (W)	3 (W)	4 (W)	5 (W)
210	58.4	58.4	58.4	57.5	59.4
220	58.4	58.3	58.3	57.5	59.3
230	58.4	58.3	58.3	57.5	59.3
240	58.4	58.3	58.3	57.5	59.3
250	58.4	58.3	58.3	57.4	59.3

Measured VA at 100% light output

Voltage(V)/Sample	1 (VA)	2 (VA)	3 (VA)	4 (VA)	5 (VA)
210	59.4	59.3	59.1	58.5	60.3
220	59.5	59.4	59.2	58.6	60.4
230	59.7	59.5	59.4	58.8	60.5
240	59.9	59.7	59.5	58.9	60.7
250	60.0	59.8	59.6	59.1	60.9

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