Prüfbericht-Nr.: *Test Report No.:*	**50114005 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 43W			
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:*

18 .Dec., 2017 Ryan C.M. Hsieh / Engineer Ryan Hsieh

Datum *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*

kontrolliert von / *reviewed by:*

20 .Dec., 2017 Jordan Wu / Technical Certifier

Datum *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*

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: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *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*

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TEST DATA
LED Street Light – Electrical Parameter Measurement

Report Number. .....:	50114005 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 43W
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	42.2	0.206	0.973
220	50	42.2	0.198	0.970
230	50	42.3	0.190	0.965
240	50	42.3	0.183	0.961
250	50	42.3	0.177	0.956

Sample 2 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	42.1	0.206	0.974
220	50	42.1	0.197	0.971
230	50	42.1	0.189	0.967
240	50	42.1	0.182	0.962
250	50	42.2	0.176	0.957

Sample 3 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	42.1	0.205	0.978
220	50	42.1	0.196	0.975
230	50	42.2	0.189	0.972
240	50	42.2	0.181	0.968
250	50	42.2	0.185	0.964

Sample 4 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	41.7	0.204	0.972
220	50	41.7	0.196	0.968
230	50	41.7	0.189	0.965
240	50	41.7	0.181	0.959
250	50	41.7	0.175	0.954

Sample 5 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	42.3	0.207	0.973
220	50	42.3	0.198	0.969
230	50	42.3	0.191	0.965
240	50	42.3	0.184	0.961
250	50	42.4	0.177	0.956

Measured wattage at 100% light output

Voltage(V)/Sample	1 (W)	2 (W)	3 (W)	4 (W)	5 (W)
210	42.2	42.1	42.1	41.7	42.3
220	42.2	42.1	42.1	41.7	42.3
230	42.3	42.1	42.2	41.7	42.3
240	42.3	42.1	42.2	41.7	42.3
250	42.3	42.2	42.2	41.7	42.4

Measured VA at 100% light output

Voltage(V)/Sample	1 (VA)	2 (VA)	3 (VA)	4 (VA)	5 (VA)
210	43.3	43.2	43.1	42.9	43.4
220	43.5	43.4	43.2	43.1	43.6
230	43.8	43.6	43.4	43.2	43.8
240	44.0	43.8	43.6	43.5	44.1
250	44.3	44.0	43.8	43.7	44.3

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