


<b>Prüfbericht-Nr.:</b> Test Report No.:	<b>50113998 001</b>	<b>Auftrags-Nr.:</b> Order No.:	<b>114071979</b>	Seite 1 von 1 Page 1 of 1
<b>Kunden-Referenz-Nr.:</b> Client Reference No.:	<b>12102276</b>	<b>Auftragsdatum:</b> Order date:	<b>04.12.2017</b>	
<b>Auftraggeber:</b> Client:	OrangeTek Limited Coach House, Blakenhall Park, Bar Lane, Barton under Needwood, Burton upon Trent DE13 8AJ, United Kingdom			
<b>Prüfgegenstand:</b> Test item:	LED Street Light			
<b>Bezeichnung / Typ-Nr.:</b> Identification / Type No.:	IGNIS 1 36 LED 46W			
<b>Auftrags-Inhalt:</b> Order content:	TÜV Rheinland - Test report			
<b>Prüfgrundlage:</b> Test specification:	Electrical Parameter measurement			
<b>Wareneingangsdatum:</b> Date of receipt:	13.12.2017	See photos attached in report.		
<b>Prüfmuster-Nr.:</b> Test sample No.:	A000666750			
<b>Prüfzeitraum:</b> Testing period:	14.12.2017 – 15.12.2017			
<b>Ort der Prüfung:</b> Place of testing:	TÜV Rheinland Taiwan Ltd., Taichung Branch			
<b>Prüflaboratorium:</b> Testing laboratory:	TÜV Rheinland Taiwan Ltd., Taichung Branch			
<b>Prüfergebnis*:</b> Test result*:	Siehe Sonstiges / See Other			
<b>geprüft von / tested by:</b>		<b>kontrolliert von / reviewed by:</b>		
18. Dec., 2017 Ryan C.M. Hsieh / Engineer		20. Dec., 2017 Jordan Wu / Technical Certifier		
<b>Datum</b> Date	<b>Name / Stellung</b> Name / Position	<b>Unterschrift</b> Signature	<b>Datum</b> Date	<b>Name / Stellung</b> Name / Position
<b>Sonstiges / Other:</b> This test report consists of 5 pages for test results of input power, input current, power factor and VA.				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> 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><b>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.</b> 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>				



<b>TEST DATA</b> <b>LED Street Light – Electrical Parameter Measurement</b>	
<b>Report Number.</b> .....	50113998 001
<b>Order Number.</b> .....	114071979
<b>Date of issue</b> .....	See cover page
<b>Total number of pages</b> .....	5 pages
<b>Name of Testing Laboratory preparing the Report</b> ..... TÜV Rheinland Taiwan Ltd., Taichung Branch	
<b>Applicant's name</b> ..... OrangeTek Limited <b>Address</b> ..... Coach House, Blakenhall Park, Bar Lane, Barton under Needwood, Burton upon Trent DE13 8AJ, United Kingdom	
<b>Test item description</b> ..... LED Street Light <b>Trade Mark</b> ..... <b>OrangeTek</b> 	
<b>Manufacturer</b> ..... OrangeTek Limited Taiwan Branch Rm. B1, 18F., No.51, Sec. 2, Gongyi Rd., Nantun Dist., Taichung City 408, Taiwan	
<b>Model/Type reference</b> ..... IGNIS 1 36 LED 46W	
<b>Testing</b> ..... <b>Input power, input current, power factor and VA</b> <b>Date of receipt of test item</b> ..... <b>13.12.2017</b> <b>Date (s) of performance of tests</b> ...: <b>14.12.2017-15.12.2017</b>	

**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	46.5	0.226	0.977
220	50	46.5	0.217	0.974
230	50	46.5	0.208	0.970
240	50	46.5	0.200	0.966
250	50	46.5	0.193	0.962

Sample 2 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	46.4	0.226	0.978
220	50	46.4	0.216	0.975
230	50	46.4	0.208	0.971
240	50	46.4	0.200	0.968
250	50	46.4	0.193	0.963

Sample 3 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	46.4	0.225	0.981
220	50	46.5	0.216	0.978
230	50	46.5	0.207	0.976
240	50	46.5	0.199	0.973
250	50	46.5	0.192	0.969

Sample 4 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	45.9	0.224	0.976
220	50	45.9	0.215	0.973
230	50	45.9	0.206	0.969
240	50	45.9	0.198	0.965
250	50	45.9	0.191	0.960

Sample 5 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	46.1	0.225	0.977
220	50	46.1	0.215	0.973
230	50	46.1	0.207	0.970
240	50	46.1	0.199	0.965
250	50	46.1	0.192	0.961

## Measured wattage at 100% light output

Voltage(V)/Sample	1 (W)	2 (W)	3 (W)	4 (W)	5 (W)
210	46.5	46.4	46.4	45.9	46.1
220	46.5	46.4	46.5	45.9	46.1
230	46.5	46.4	46.5	45.9	46.1
240	46.5	46.4	46.5	45.9	46.1
250	46.5	46.4	46.5	45.9	46.1

## Measured VA at 100% light output

Voltage(V)/Sample	1 (VA)	2 (VA)	3 (VA)	4 (VA)	5 (VA)
210	47.6	47.5	47.3	47.0	47.2
220	47.7	47.6	47.5	47.2	47.3
230	47.9	47.8	47.6	47.4	47.7
240	48.1	48.0	47.8	47.6	47.8
250	48.3	48.2	48.0	47.8	48.0

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