Prüfbericht-Nr.: *Test Report No.:*	**11050759 001**	**Auftrags-Nr.:** *Order No.:*	114066173	Seite 1 von 1 *Page 1 of 1*
Kunden-Referenz-Nr.: *Client Reference No.:*	12098719	**Auftragsdatum:** *Order date:*	10.07.2017	
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 mini 16.5W			
Auftrags-Inhalt: *Order content:*	TÜV Rheinland - Test report			
Prüfgrundlage: *Test specification:*	Electrical Parameter measurement			

Wareneingangsdatum: *Date of receipt:*	27.06.2017	See photos attached in report.
Prüfmuster-Nr.: *Test sample No.:*	A000573007	
Prüfzeitraum: *Testing period:*	27.06.2017 – 29.06.2017	
Ort der Prüfung: *Place of testing:*	TÜV Rheinland Taiwan Ltd., Taichung Laboratory	
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland Taiwan Ltd., Taichung Laboratory	
Prüfergebnis*: *Test result*:*	Siehe Sonstiges / See Other	

geprüft von / *tested by*:

10 Jul., 2017	Ryan C.M. Hsieh / Engineer	
Datum *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*

kontrolliert von / *reviewed by*:

11 Jul., 2017	Julia Lai / Technical Certifier	
Datum *Date*	**Name / Stellung** *Name / Position*	**Unterschrift** *Signature*

Sonstiges / *Other*:
Details see next pages.
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. .....:	11050759 001
Order Number. .....:	114066173
Date of issue .....:	See cover page
Total number of pages.....	5 pages
Name of Testing Laboratory preparing the Report.....:	TÜV Rheinland Taiwan Ltd., Taichung Laboratory
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 mini 16.5W
Testing……..:	**Input power, input current, power factor and VA**
Date of receipt of test item……..:	**27.06.2017**
Date (s) of performance of tests…:	**27.06.2017**

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Summary of testing:

1. This project is for LED Street Light Electrical Parameter Measurement for input power, input current and power factor under 100% light output with original setting by manufacturer.

2. Tests are conducted at ambient temperature 25°C, humidity 55%RH

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	16.2	0.080	0.970
220	50	16.2	0.076	0.966
230	50	16.2	0.073	0.964
240	50	16.2	0.070	0.961
250	50	16.2	0.068	0.956

Sample 2 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	16.5	0.078	0.968
220	50	15.9	0.075	0.963
230	50	15.9	0.072	0.960
240	50	15.9	0.069	0.958
250	50	15.9	0.067	0.954

Sample 3 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	16.1	0.079	0.969
220	50	16.0	0.075	0.965
230	50	16.0	0.072	0.962
240	50	16.0	0.069	0.959
250	50	16.0	0.067	0.956

Sample 4 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	16.1	0.079	0.970
220	50	16.1	0.075	0.965
230	50	16.0	0.072	0.962
240	50	16.0	0.070	0.959
250	50	16.0	0.067	0.956

Sample 5 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	16.1	0.079	0.968
220	50	16.1	0.076	0.963
230	50	16.1	0.073	0.960
240	50	16.1	0.070	0.958
250	50	16.1	0.067	0.954

Measured wattage at 100% light output

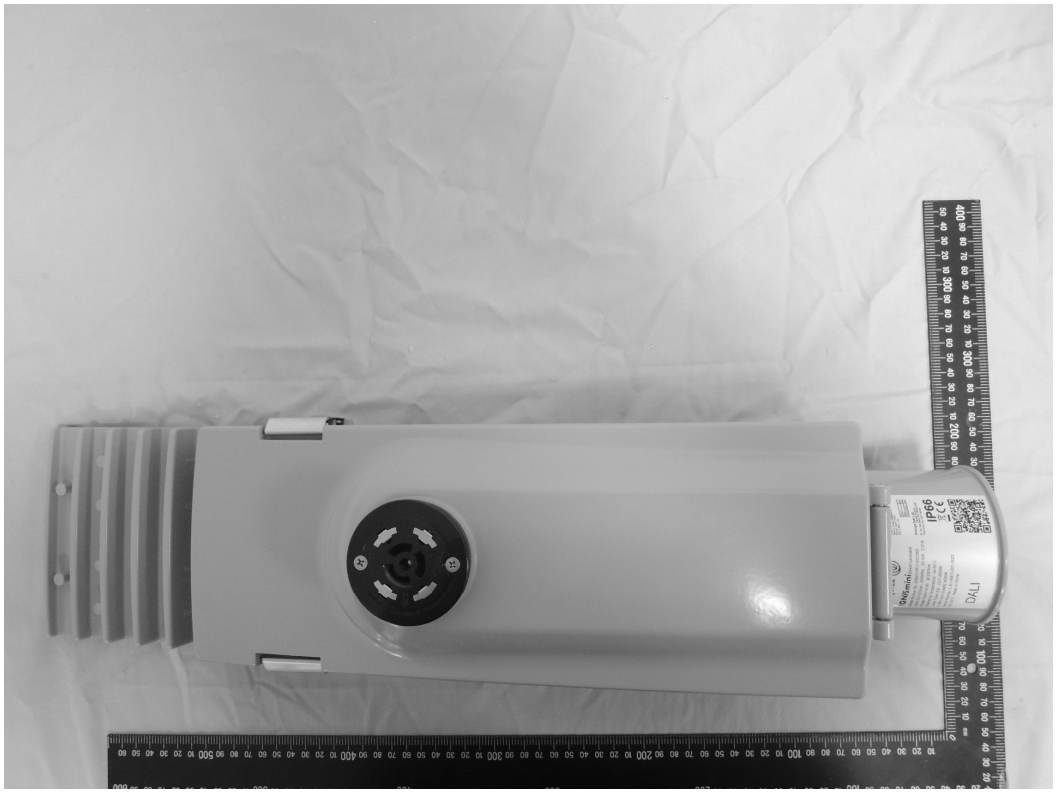
Voltage(V)/Sample	1 (W)	2 (W)	3 (W)	4 (W)	5 (W)
210	16.2	16.5	16.1	16.1	16.1
220	16.2	15.9	16.0	16.1	16.1
230	16.2	15.9	16.0	16.0	16.1
240	16.2	15.9	16.0	16.0	16.1
250	16.2	15.9	16.0	16.0	16.1

Measured VA at 100% light output

Voltage(V)/Sample	1 (VA)	2 (VA)	3 (VA)	4 (VA)	5 (VA)
210	16.7	16.5	16.6	16.6	16.7
220	16.8	16.6	16.6	16.6	16.7
230	16.8	16.6	16.7	16.7	16.8
240	16.8	16.6	16.7	16.7	16.8
250	16.9	16.7	16.8	16.8	16.9

Notes: Tests were conducted after operating for 1 hour to reach their steady load state.

Photo Documentation



Picture 1 Rear side of EUT

Picture 2 Front side of EUT