

# TEST REPORT

## ( Electric Parameter Measurement )

Test Standard : According to Applicant requirements

Date of Receipt : 2018 / 06 / 27

Test Date : 2018 / 06 / 27 ~ 2018 / 06 / 27

1. Issue date for test report : 2018 / 07 / 04
2. Report No : 18062704
3. Total pages : 8
4. Test report without steel stamp is not valid, and shall not be reproduced except in full.
5. Test sample is not sampling by laboratory, test result relate only to the items tested.
6. Test report is not responsible for advertisement or promotion for products.

Approved Signatory:





## Test Report

### Information for test items

Applicant : OrangeTek Limited

Applicant's address : Coach House, Blakenhall Park Bar Lane Barton under  
Needwood Burton upon Trent DE13 8AJ, United Kingdom  
OrangeTek Ltd

Manufacturer : Orangetek Limited Taiwan branch

Address of Manufacturer : Rm. B1, 18F., No.51, Sec. 2Gongyi Rd Nantun  
Dist,Taichung City 408

Trademark : **OrangeTek** 

Product : LED Street Light

Model : IGNIS MINI 10 LED 11W

Rated input voltage (V) : 220-240 V

Rated input frequency (Hz) : 50 Hz

Rated input power (W) : 11W

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### **Test content**

Test specifications	
Test environment temperature : <u>24°C~26°C</u> Humidity : <u>50 %RH~70 %RH</u>	
1	This project is for LED Street Light Electrical Parameter Measurement for input power, input current and power factor and VA under 100% lighting output with original setting by manufacturer.
2	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.

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## **Test content**

Sample 1 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	10.66	0.053	0.958
220	50	10.66	0.051	0.950
230	50	10.67	0.049	0.947
240	50	10.69	0.047	0.948
250	50	10.70	0.046	0.930

Sample 2 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	10.70	0.053	0.961
220	50	10.69	0.051	0.953
230	50	10.69	0.049	0.949
240	50	10.69	0.048	0.928
250	50	10.70	0.046	0.930

Sample 3 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	10.55	0.052	0.966
220	50	10.55	0.050	0.959
230	50	10.55	0.049	0.936
240	50	10.55	0.047	0.935
250	50	10.57	0.046	0.919

Sample 4 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	10.43	0.052	0.955
220	50	10.43	0.050	0.948
230	50	10.43	0.048	0.945
240	50	10.44	0.046	0.946
250	50	10.44	0.045	0.928

Sample 5 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	10.62	0.053	0.954
220	50	10.62	0.051	0.947
230	50	10.62	0.049	0.942
240	50	10.62	0.047	0.941
250	50	10.62	0.046	0.923

## Test content

### Measured wattage at 100% light output

Voltage(V)/Sample	1 (W)	2 (W)	3 (W)	4 (W)	5 (W)
210	10.66	10.70	10.55	10.43	10.62
220	10.66	10.69	10.55	10.43	10.62
230	10.67	10.69	10.55	10.43	10.62
240	10.69	10.69	10.55	10.44	10.62
250	10.70	10.70	10.57	10.44	10.62

### Measured VA at 100% light output

Voltage(V)/Sample	1 (VA)	2 (VA)	3 (VA)	4 (VA)	5 (VA)
210	11.13	11.13	10.92	10.92	11.13
220	11.22	11.22	11.00	11.00	11.22
230	11.27	11.27	11.27	11.04	11.27
240	11.28	11.52	11.28	11.04	11.28
250	11.50	11.50	11.50	11.25	11.50

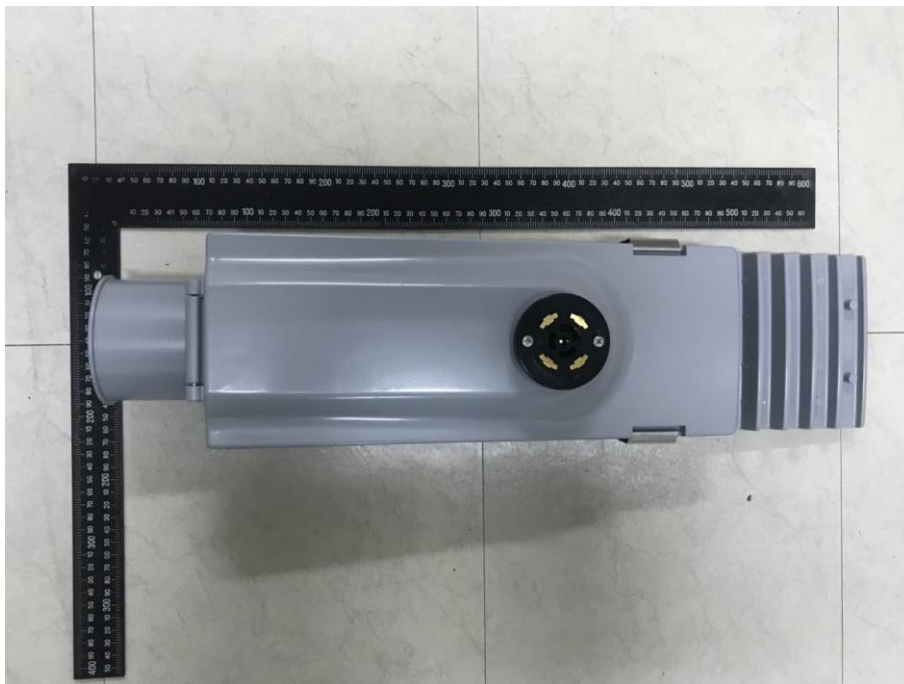
Notes: Tests were conducted after operating to reach their steady load state.

### Photo of test items

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### **Equipment list and testing engineer for test**

Item	Equipment	Manufacturer / Type / Series No
1	Digital power meter	YOKOGAWA WT210 (91K116100)
2	AC Power Source	APC AFC-5KW
3	Temperature and humidity records	YOKOGAWA - SR16000 (S5K910111)
Testing engineers : Chun-Tse Liu		

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Certificate No. : L2262-170605

財團法人全國認證基金會  
Taiwan Accreditation Foundation

## Certificate of Accreditation

This is to certify that

**Photometric Solution International Ltd.**  
**Light laboratory**

NO.288, Haizhong st., Annan Dist., Tainan city, Taiwan(R.O.C)

**is accredited in respect of laboratory**

Accreditation Criteria	: ISO/IEC 17025: 2005
Accreditation Number	: 2262
Originally Accredited	: March 07, 2011
Effective Period	: May 23, 2017 to May 22, 2020
Accredited Scope	: Testing Field, see described in the Appendix Accreditation Program for Designated Testing Laboratory for Commodities Inspection
Specific Accreditation Program	: Accreditation Program for Environmental protection product certification Testing Laboratory Accreditation Program for Energy Efficiency testing Laboratory

*Chung-Lin Wang*

Chung-Lin Wang  
President, Taiwan Accreditation Foundation  
Date : June 05, 2017

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The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix