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Taiwan Photometric Solution Inc

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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 : 18062706
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 13W

Rated input voltage (V) : 220-240 V

Rated input frequency (Hz) : 50 Hz

Rated input power (W) : 13W

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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	12.29	0.060	0.975
220	50	12.29	0.058	0.963
230	50	12.29	0.056	0.954
240	50	12.30	0.054	0.949
250	50	12.30	0.052	0.946

Sample 2 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	12.27	0.060	0.974
220	50	12.27	0.058	0.962
230	50	12.26	0.056	0.952
240	50	12.26	0.054	0.946
250	50	12.26	0.052	0.943

Sample 3 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	12.19	0.060	0.967
220	50	12.19	0.058	0.955
230	50	12.19	0.055	0.964
240	50	12.19	0.053	0.958
250	50	12.20	0.052	0.938

Sample 4 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	12.12	0.060	0.962
220	50	12.11	0.057	0.966
230	50	12.11	0.055	0.957
240	50	12.10	0.053	0.951
250	50	12.10	0.051	0.949

Sample 5 loaded with 100% light output

Input Voltage(V)	Frequency (Hz)	Input Power (W)	Input Current (A)	Power Factor
210	50	12.21	0.060	0.969
220	50	12.20	0.058	0.956
230	50	12.20	0.055	0.964
240	50	12.21	0.053	0.960
250	50	12.21	0.052	0.939

Test content

Measured wattage at 100% light output

Voltage(V)/Sample	1 (W)	2 (W)	3 (W)	4 (W)	5 (W)
210	12.29	12.27	12.19	12.12	12.21
220	12.29	12.27	12.19	12.11	12.20
230	12.29	12.26	12.19	12.11	12.20
240	12.30	12.26	12.19	12.10	12.21
250	12.30	12.26	12.20	12.10	12.21

Measured VA at 100% light output

Voltage(V)/Sample	1 (VA)	2 (VA)	3 (VA)	4 (VA)	5 (VA)
210	12.60	12.60	12.60	12.60	12.60
220	12.76	12.76	12.76	12.54	12.76
230	12.88	12.88	12.65	12.65	12.65
240	12.96	12.96	12.72	12.72	12.72
250	13.00	13.00	13.00	12.75	13.00

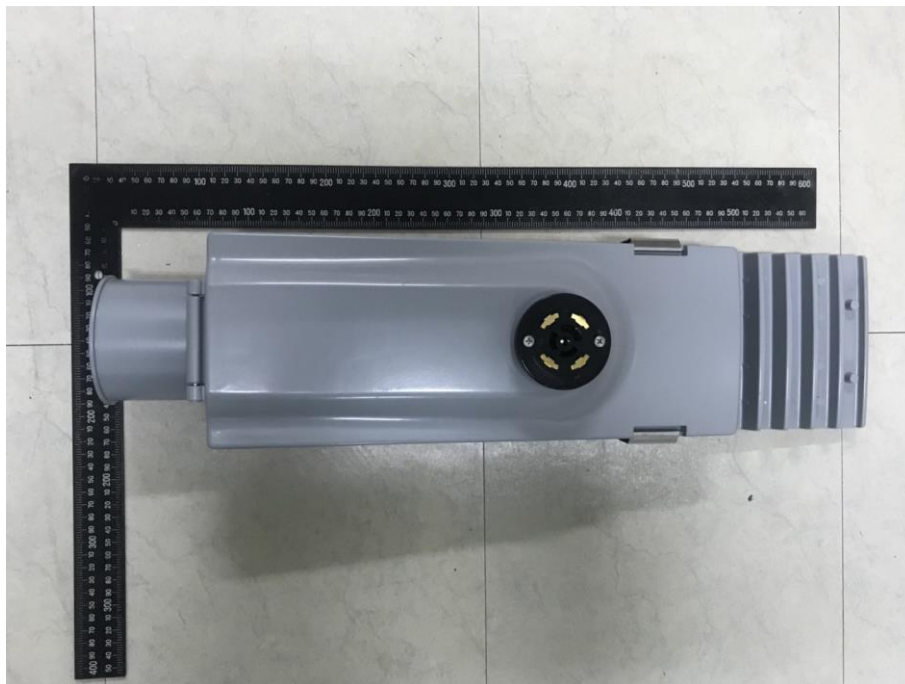
Notes: Tests were conducted after operating to reach their steady load state.

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