FCC Part 15, Subpart B, Class B

ARTIKA FOR LIVING INC.

LED Luminaire

Test Model: AMP105

Additional Model No.: AMP105-XXXXXX

(Note: "XXXXXX" can be A to Z and/or 0 to 9 and/or blank (commercial code))

Prepared for Address	:	ARTIKA FOR LIVING INC. 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5 Lachine Canada
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	:	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel	:	(+86)755-82591330
Fax	:	(+86)755-82591332
Web	:	www.LCS-cert.com
Mail	:	webmaster@LCS-cert.com
Date of receipt of test sample	:	July 22, 2021
Number of tested samples	:	1
Sample number	:	210722072A
Serial number	:	Prototype
Date of Test	:	July 22, 2021 ~ July 30, 2021
Date of Report	:	July 30, 2021

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FCC Part 15, Subpart B, Class B FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014

Report Reference No	[:] LCS210722072AE		
Date Of Issue	[:] July 30, 2021		
Testing Laboratory Name	: Shenzhen LCS Compliance Testir	ng Laboratory Ltd.	
	: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China		
Testing Location/ Procedure	: Full application of Harmonised stand Partial application of Harmonised sta Other standard testing method	andards □	
Applicant's Name	[:] ARTIKA FOR LIVING INC.		
Address	[:] 1756 50th avenue, Lachine, Qc, Car Canada	nadaH8T 2V5 Lachine	
Test Specification			
Standard	[:] FCC 47 CFR Part 15 Subpart B, Cla	ass B, ANSI C63.4 -2014	
o la fua a la factoria de	[:] LCSEMC-1.0		
Test Report Form No			
Test Report Form No	: Shenzhen LCS Compliance Testing	Laboratory Ltd.	
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Test Report Form No TRF Originator Master TRF SHENZHEN LCS COMPLIANC This publication may be reprod as the SHENZHEN LCS COMP copyright owner and source of LABORATORY LTD. takes no resulting from the reader's inter context. Test Item Description Test Model Trade Mark Ratings Result	: Shenzhen LCS Compliance Testing : Dated 2011-03 CE TESTING LABORATORY LTD. AI luced in whole or in part for non-comm PLIANCE TESTING LABORATORY LT the material. SHENZHEN LCS COMP responsibility for and will not assume la rpretation of the reproduced material of : LED Luminaire : AMP105 : Artika : AC 120V, 60Hz,10W : Positive	I rights reserved. nercial purposes as long TD. is acknowledged as PLIANCE TESTING liability for damages due to its placement and	

Page 2 of 17

	SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.	FCCID: 2AYFP-AMP105	Report No.: LCS210722072AE
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FCC -- TEST REPORT

Test Report No. :	LCS210722072AE

July 30, 2021 Date of issue

Test Model	: AMP105
EUT	: LED Luminaire
Applicant	: ARTIKA FOR LIVING INC.
Address	: 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5 Lachine Canada
Telephone	:/
Fax	:/
Manufacturer	: RISING-SUN LIGHTING Co.,Ltd
	: "San Shi Liu Lang" Industrial Area, Shilong Village Group, Langxin Village, Danzao Town, Nanhai District, Foshan Guangdong 528216 China
Telephone	:/
Fax	: /
	: RISING-SUN LIGHTING Co.,Ltd
Address	: "San Shi Liu Lang" Industrial Area, Shilong Village Group, Langxin Village, Danzao Town, Nanhai District, Foshan Guangdong 528216 China
Telephone	
Fax	: /

Test Result according to the standards on page 6: Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
000	July 30, 2021	Initial Issue	Gavin Liang

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TABLE OF CONTENTS

Test Report Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	6
1.1. Description of Standards and Results	6
2. GENERAL INFORMATION	7
2.1. Description of Device (EUT)	7
2.2. Support Equipment List	7
2.3. Description of Test Facility	7
2.4. Statement of the Measurement Uncertainty	8
2.5. Measurement Uncertainty	8
3. TEST RESULTS	9
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT	9
3.2. Radiated emission Measurement	
4. TEST SETUP PHOTOGRAPHS OF EUT	17
5. EXTERIOR PHOTOGRAPHS OF THE EUT	17
6. INTERIOR PHOTOGRAPHS OF THE EUT	17

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS

N/A is an abbreviation for Not Applicable.

Test mode:			
Mode	Lighting	Record	
***Note: All test modes were tested, but we only recorded the worst case in this			
report.			

2. GENERAL INFORMATION

- 2.1. Description of Device (EUT)
 - EUT : LED Luminaire
 - Trade Mark : Artika
 - Test Model : AMP105
 - Additional Model : AMP105-XXXXXX ("X" can be A to Z and/or 0 to 9 and/or blank (commercial code))
 - Model Declaration : PCB board, structure and internal of these model(s) are the same, So no additional models were tested
 - Power Supply : AC 120V, 60Hz,10W

Highest internal frequency (Fx)	Highest measured frequency			
Fx ≤ 108 MHz	1 GHz			
108 MHz < Fx ≤ 500 MHz	2 GHz			
500 MHz < Fx ≤ 1 GHz	5 GHz			
Fx > 1 GHz	5 × Fx up to a maximum of 6 GHz			
NOTE 1 For FM and TV broadcast receivers, Fx is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies. Where Fx is unknown, the radiated emission measurements shall be performed				
up to 6 GHz.				

2.2. Support Equipment List

Name	Manufacturers	M/N	S/N

2.3. Description of Test Facility

Site Description

EMC Lab.

: NVLAP Accreditation Code is 600167-0. FCC Designation Number is CN5024. FCC Test Firm Registration Number: 254912 CAB identifier is CN0071. CNAS Registration Number is L4595.

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2.4. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.5. Measurement Uncertainty

Test	Parameters	Expanded Uncertainty (Ulab)	Expanded Uncertainty (Ucispr)
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Radiated Emission	Level accuracy (30MHz to 1000MHz)	$\pm3.48~\text{dB}$	\pm 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	\pm 3.90 dB	\pm 5.2 dB

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

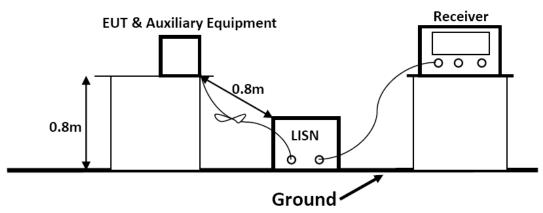
3. TEST RESULTS

3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
2	EMI Test Receiver	R&S	ESPI	101840	2021-06-22	2022-06-21
3	Artificial Mains	SCHWARZBECK	NSLK8127	8127716	2021-06-22	2022-06-21
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2021-06-22	2022-06-21
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2020-10-20	2021-10-19

The following test equipments are used during the power line conducted measurement: 3.1.2.Block Diagram of Test Setup



3.1.3.Test Standard

Power Line Conducted Emission Limits (Class B)

Frequency (MHz)			Limit (dBµV)			
			Quasi-peak Level	Average Level		
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *		
0.50	1	5.00	56.0	46.0		
5.00	1	30.00	60.0	50.0		
NOTE1-The lower limit shall apply at the transition frequencies.						
NOTE2-The limit decreases linearly with the logarithm of the						
frequency in the range 0.15MHz to 0.50MHz.						

3.1.4.EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

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3.1.5. Operating Condition of EUT

- 3.1.5.1.Setup the EUT as shown on Section 3.1.2
- 3.1.5.2. Turn on the power of all equipments.
- 3.1.5.3.Let the EUT work in measuring Lighting and measure it.

3.1.6.Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2014 on Conducted Emission Measurement.

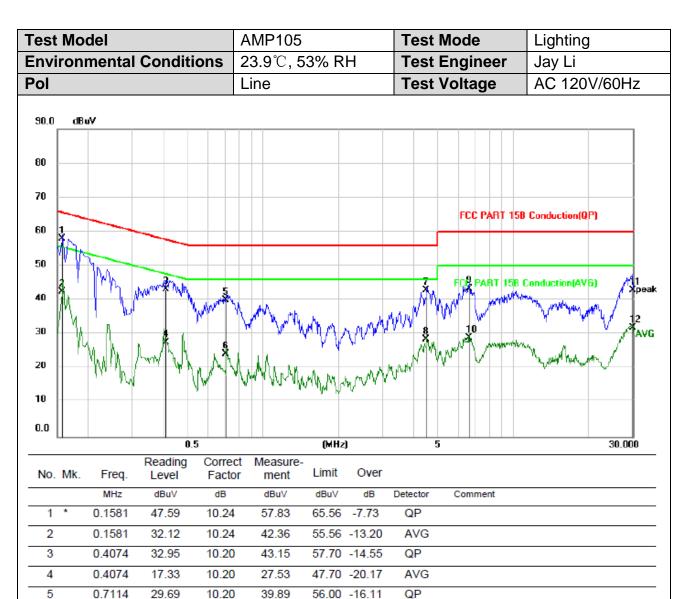
The bandwidth of the test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is investigated

3.1.7.Test Results

PASS.

The test result please refer to the next page.



46.00 -21.88

56.00 -13.21

46.00 -17.47

60.00 -16.70

50.00 -21.07

60.00 -17.08

50.00 -18.23

AVG

AVG

QP

AVG

QP

AVG

QP

0.7114

4.5033

4.5033

6.6399

6.6399

29.9550

29.9550

6

7

8

9

10

11

12

13.92

32.59

18.33

33,10

18.73

32.72

21.57

10.20

10.20

10.20

10.20

10.20

10.20

10.20

24.12

42.79

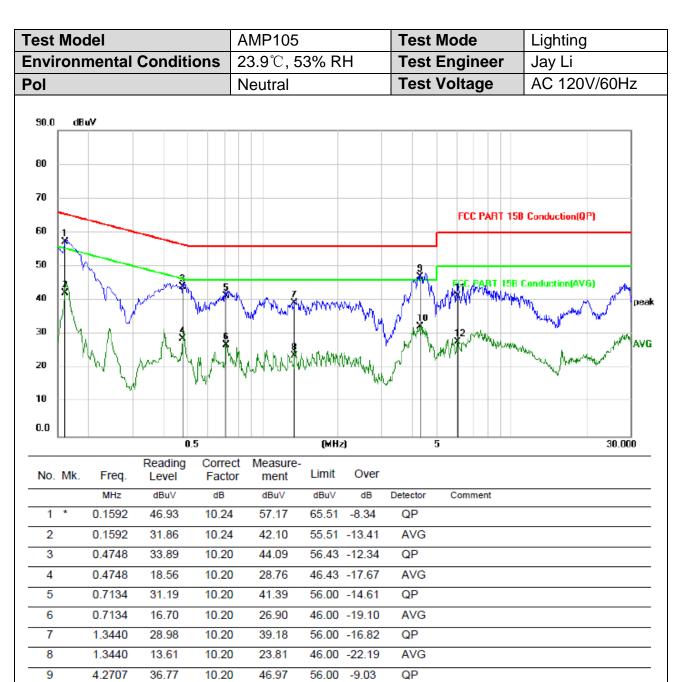
28.53

43.30

28.93

42.92

31.77



4.2707 10 22.12 10.20 32.32 46.00 -13.68 AVG 11 6.0909 31.09 10.20 41.29 60.00 -18.71 QP 17.49 12 6.0909 10.20 27.69 50.00 -22.31 AVG

Note: Pre-Scan all mode, Thus record worse case mode result in this report. Margin=Reading level + Correct - Limit

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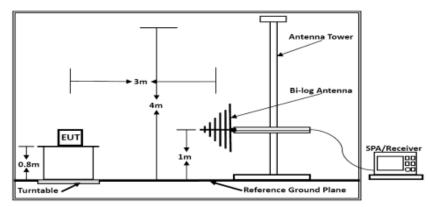
3.2. Radiated emission Measurement

3.2.1. Test Equipment

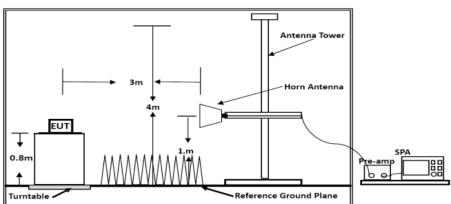
The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
2	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2020-08-05	2022-08-04
3	Positioning Controller	MF	MF7082	MF78020803	2021-06-22	2022-06-21
4	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2020-07-26	2022-07-25
5	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-07-02	2022-07-01
6	EMI Test Receiver	R&S	ESR 7	101181	2021-06-22	2022-06-21
7	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2020-11-22	2021-11-21
8	Broadband Preamplifier	/	BP-01M18G	P190501	2021-06-22	2022-06-21
9	RF Cable-R03m	Jye Bao	RG142	CB021	2021-06-22	2022-06-21
10	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2021-06-22	2022-06-21
11	EMI Test Software	AUDIX	E3	/	N/A	N/A

3.2.2. Block Diagram of Test Setup



Below 1GHz



Above 1GHz

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Limits for Radiated Disturbance Below 1GHz

FREQUENCY	DISTANCE	FIELD STREN	NGTHS LIMIT			
MHz	Meters	μV/m	dB(μV)/m			
30 ~ 88	3	100	40			
88 ~ 216	3	150	43.5			
216 ~ 960	3	200	46			
960 ~ 1000	3	500	54			
Remark: (1) Emission level (dB) μ V = 20 log Emission level μ V/m						
(2) The smaller limit shall apply at the cross point between two						
frequency bands.						
(3) Distance is the distance in meters between the measuring						
instrument, antenna and the closest point of any part of the						
device or system.						
Limits for Radiated Emission Above 1GHz						
Frequency	Distance	Peak Limit	Average Limit			
(MHz)	(Meters)	(dBµV/m)	(dBµV/m)			
Above 1000	3	74	54			
***Note: The lower limit applies at the transition frequency.						

3.2.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.2.5. Operating Condition of EUT

3.2.5.1.Setup the EUT as shown in Section 3.2.2.

3.2.5.2.Let the EUT work in test Lighting and measure it.

3.2.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

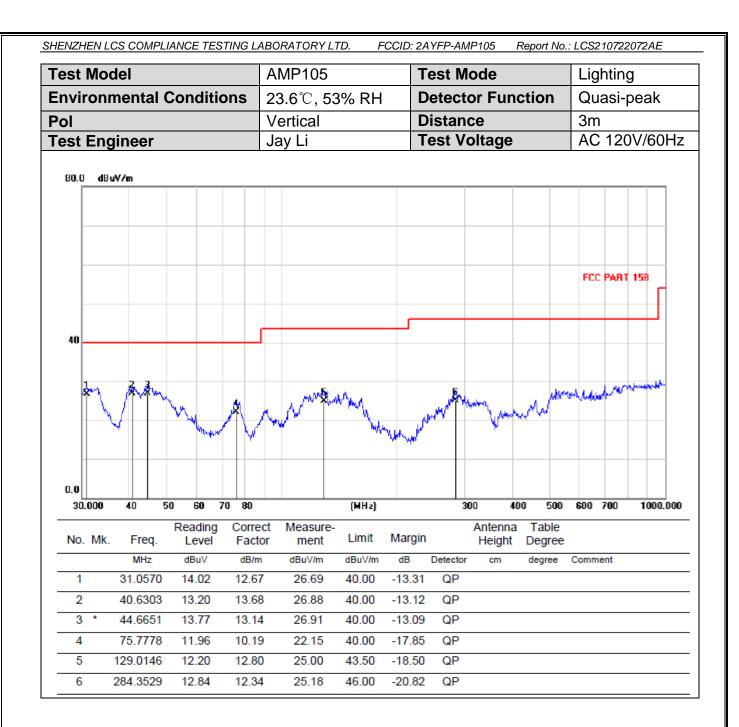
The bandwidth of the EMI test receiver is set at 120kHz, 300kHz. The frequency range from 30MHz to 1000MHz is checked.

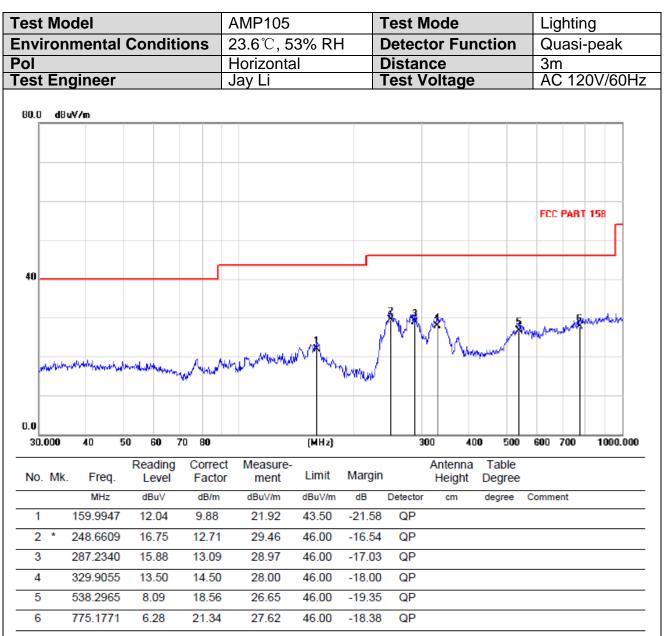
3.2.7. Radiated Emission Noise Measurement Result

PASS.

The scanning waveforms please refer to the next page.

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Note: Pre-Scan all mode, Thus record worse case mode result in this report. Margin=Reading level + Factor - Limit

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4. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

5. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

6. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF TEST REPORT------