FCC Part 15, Subpart B, Class B

ARTIKA FOR LIVING INC.

LED Portable luminaires

Test Model: FLR-TR-BL

Additional Model No.: FLR-TR-XXXXXX

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

Prepared for : ARTIKA FOR LIVING INC.

Address : 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

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Mail : webmaster@LCS-cert.com

Date of receipt of test sample : March 01, 2021

Number of tested samples : 1

Sample number : 210301050A Serial number : Prototype

Date of Test : March 01, 2021 ~ March 09, 2021

Date of Report : March 09, 2021

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

Report Reference No.: LCS210301050AE

Date Of Issue : March 09, 2021

Testing Laboratory Name: 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

Testing Location/ Procedure...: Full application of Harmonised standards

Partial application of Harmonised standards

Other standard testing method

Applicant's Name..... : ARTIKA FOR LIVING INC.

Address 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5 Lachine

Canada

Test Specification

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

Test Report Form No...... : LCSEMC-1.0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: : Dated 2011-03

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Test Item Description.....:: LED Portable luminaires

Test Model: : FLR-TR-BL

Trade Mark : Artika

Ratings: AC 120V, 60Hz

Result: Positive

Compiled by: Supervised by: Approved by:

Cherry Chen Jin Wang

FCC -- TEST REPORT

Test Report No.: LCS210301050AE March 09, 2021 Date of issue

Test Model: : FLR-TR-BL EUT.....: : LED Portable luminaires Applicant.....:: : ARTIKA FOR LIVING INC. Address.....: 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5 Lachine Canada Telephone....:: / Fax.....:: : / Manufacturer.....: : Ling Mei Te Lighting Co.,Ltd Address..... : Aoshitang Management District, Dongcheng ,Dongquan, uangdong, China Telephone.....:: : / Fax.....: : / Factory.....: Ling Mei Te Lighting Co.,Ltd Address..... : Aoshitang Management District, Dongcheng ,Dongguan, uangdong, 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	March 09, 2021	Initial Issue	Gavin Liang

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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 Portable luminaires

Trade Mark : Artika

Test Model : FLR-TR-BL

Additional Model : FLR-TR-BL-XXXXXX

("XXXXXX" 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

EUT Clock Frequency: <108MHz

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 x 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
		1	1

2.3. Description of Test Facility

Site Description

EMC Lab. : NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

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)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 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

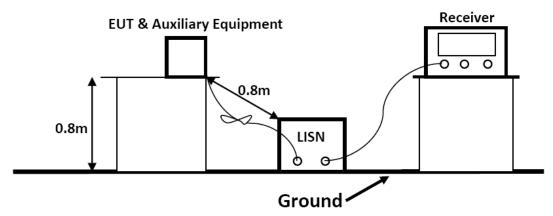
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

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	2020-06-22	2021-06-21
3	Artificial Mains	R&S	ENV216	101288	2020-06-22	2021-06-21
4	10dB Attenuator	SCHWARZB ECK	MTS-IMP-136	261115-001-0 032	2020-06-22	2021-06-21
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2020-10-20	2021-10-19

3.1.2.Block Diagram of Test Setup



3.1.3.Test Standard

Power Line Conducted Emission Limits (Class B)

F	requenc	cy .	Limit (dBμV)	
(MHz)		Quasi-peak Level Average Level		
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~	5.00	56.0	46.0
5.00	~	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.

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.

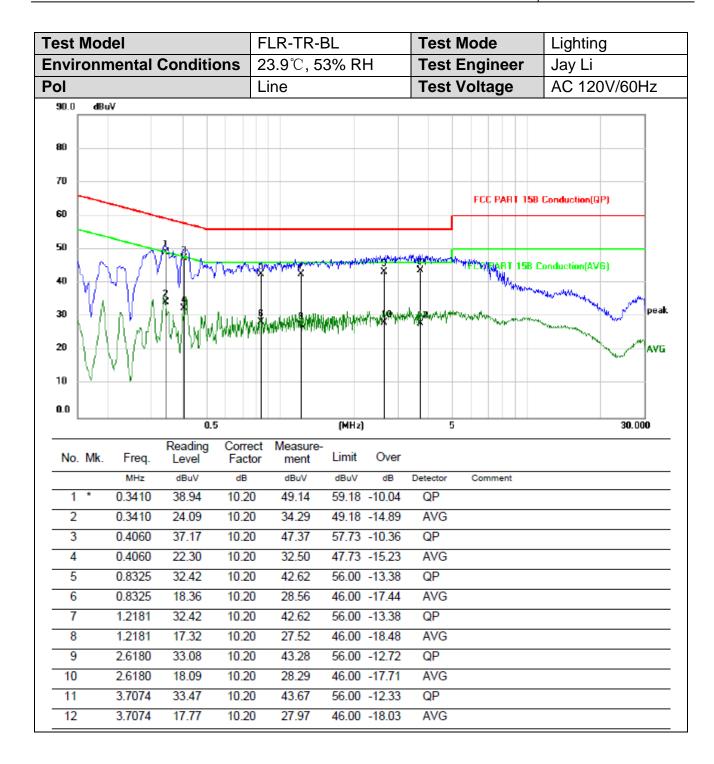
The bandwidth of the test receiver is set at 9kHz.

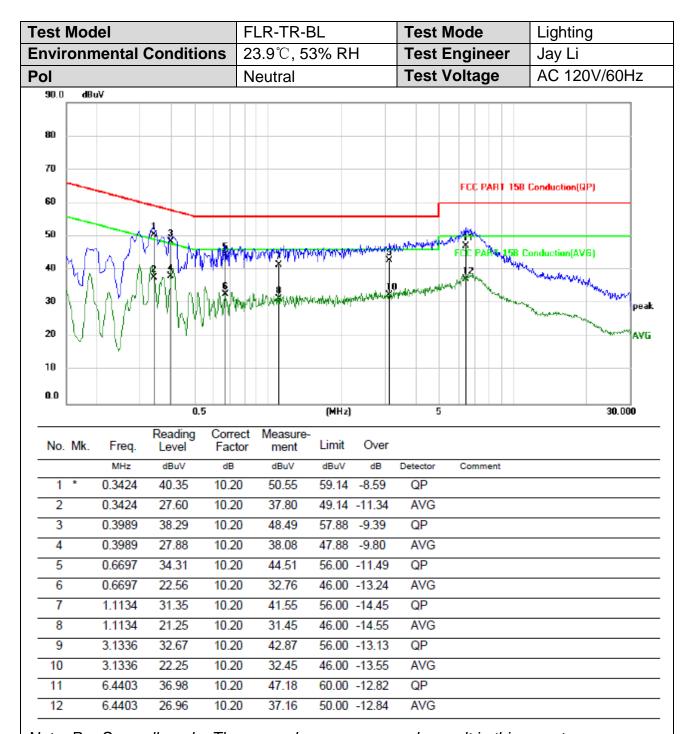
The frequency range from 150kHz to 30MHz is investigated

3.1.7.Test Results

PASS.

The test result please refer to the next page.





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

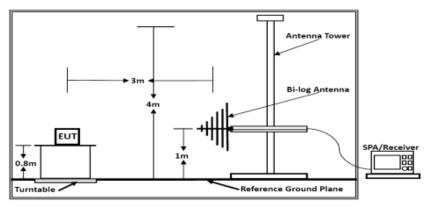
3.2. Radiated emission Measurement

3.2.1. Test Equipment

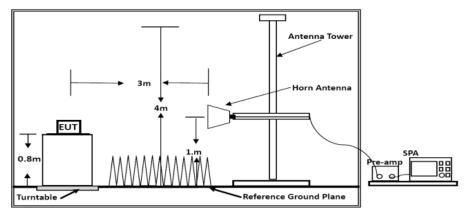
The following test equipments are used during the radiated emission measurement:

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	2019-08-05	2021-08-05
3	Positioning Controller	MF	MF7082	MF78020803	2020-06-22	2021-06-21
4	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2018-07-26	2021-07-25
5	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2018-07-02	2021-07-01
6	EMI Test Receiver	R&S	ESR 7	101181	2020-06-22	2021-06-21
7	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2020-11-22	2021-11-21
8	Broadband Preamplifier	/	BP-01M18G	P190501	2020-06-22	2021-06-21
9	RF Cable-R03m	Jye Bao	RG142	CB021	2020-06-22	2021-06-21
10	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2020-06-22	2021-06-21
11	EMI Test Software	AUDIX	E3	/	N/A	N/A

3.2.2. Block Diagram of Test Setup



Below 1GHz



Above 1GHz

3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY	DISTANCE	FIELD STRENGTHS 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						

140tc. The lower limit applies at the transition frequen

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.

4

5

6

109.4596

150.2082

172.9774

19.81

14.27

13.38

11.74

13.47

11.26

31.55

27.74

24.64

43.50

43.50

43.50

-11.95

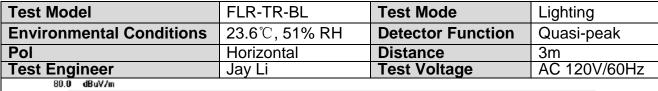
-15.76

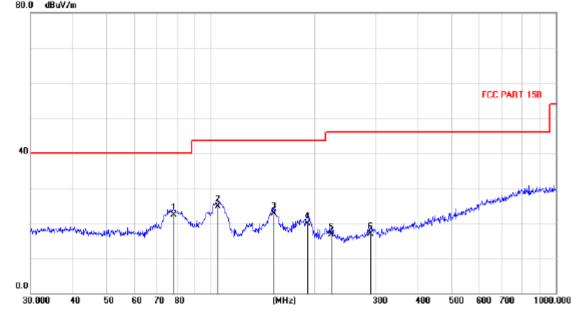
-18.86

QP

QP

QP





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	78.2074	12.74	9.52	22.26	40.00	-17.74	QP			
2		105.2256	11.58	13.06	24.64	43.50	-18.86	QP			
3		152.3299	13.31	9.37	22.68	43.50	-20.82	QP			
4		190.4885	8.62	11.28	19.90	43.50	-23.60	QP			
5		223.9296	4.32	12.40	16.72	46.00	-29.28	QP			
6		291.0360	3.86	12.99	16.85	46.00	-29.15	QP			

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

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-----