FCC Part 15, Subpart B, Class B

ARTIKA FOR LIVING INC

Bloom FM Gold CCT

Test Model: FM-BLC

Additional Model No.: FM-BLC-XXXXXX

("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.
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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 : April 08, 2021

Number of tested samples : 1

Sample No. : 210407118A Serial number : Prototype

Date of Test : April 08, 2021 ~ April 22, 2021

Date of Report : April 23, 2021

Grimo Vimos

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

Report Reference No.: LCS210407118AE

Date Of Issue April 23, 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.....: : Bloom FM Gold CCT

Test Model : FM-BLC
Trade Mark : Artika

Ratings : Input: AC 120V, 60Hz, 15W

Result: Positive

Compiled by: Supervised by: Approved by:

Cherry Chen Jin Wang

FCC -- TEST REPORT

Test Report No.: LCS210407118AE

April 23, 2021
Date of issue

Test Model	: FM-BLC
EUT	: Bloom FM Gold CCT
Applicant	: ARTIKA FOR LIVING INC
	: 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5 Lachine Canada
Telephone	:/
Fax	: /
Manufacturer	: ZHONGSHAN C5 LIGHTING CO. LTD
Address	: 1# Henglong Road, Tongyi Industrial Area, Cao San, Guzhen, Zhongshan, Guangdong, China.
Telephone	:/
Fax	: /
Factory	: ZHONGSHAN C5 LIGHTING CO. LTD
	: 1# Henglong Road, Tongyi Industrial Area, Cao San, Guzhen, Zhongshan, Guangdong, 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	on Issue Date Revisions		Revised By
000	April 23, 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 : Bloom FM Gold CCT

Trade Mark : Artika

Test Model : FM-BLC

Additional Model : FM-BLC-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 : Input: AC 120V, 60Hz, 15W

Highest internal frequency (Fx)

: Fx ≤ 108 MHz

ricquericy (i x)		

	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		

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	adiated Emission Level accuracy (30MHz to 1000MHz)		± 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

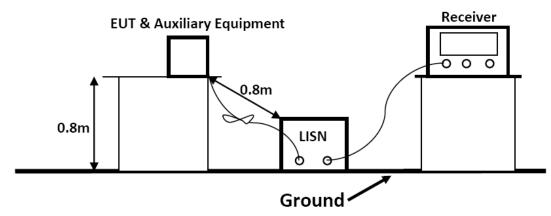
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

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	2020-06-2	2021-06-21
3	Artificial Mains	R&S	ENV216	101288	2020-06-2	2021-06-21
4	10dB Attenuator	SCHWARZB ECK	MTS-IMP-136	261115-001-0 032	2020-06-2	2021-06-21
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2020-11-1	2021-11-16

3.1.2.Block Diagram of Test Setup



3.1.3.Test Standard

Power Line Conducted Emission Limits (Class B)

1 over zine conadeted zimeelen zinke (eldee z)					
Frequency			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.

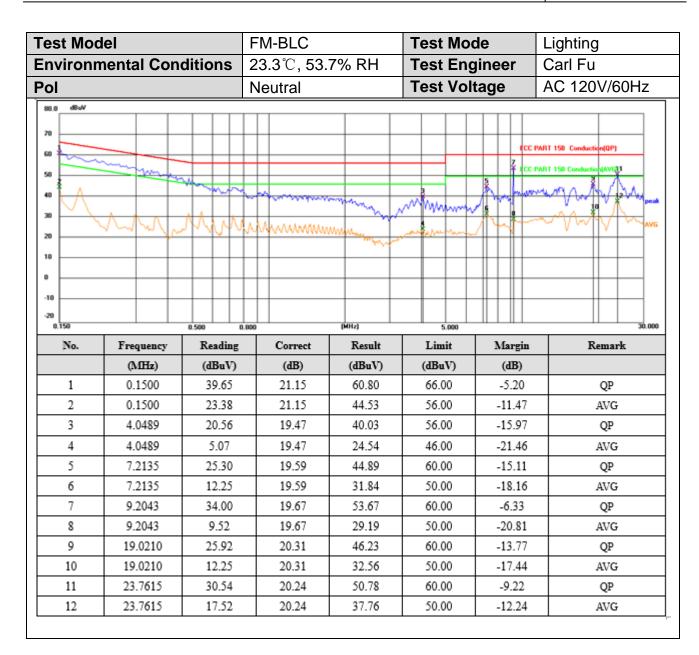
The frequency range from 150kHz to 30MHz is investigated

3.1.7.Test Results

PASS.

The test result please refer to the next page.

Test Mo	odel		FM-BLC		Test Mo	de	Lighting
Environ	mental Con	ditions	23.3℃, 53 .	7% RH	Test Eng	gineer	Carl Fu
Pol			Line		Test Vol	tage	AC 120V/60Hz
80.0 d8w/ 70 60 50 40 30 20 10 -10 -20 0 150		0.500 0.8	Www.ww.	NAME OF THE PARTY	5.000	 	URT 158 Conduction(UP) URT 158 Conduction(AVG) Deak AVG
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1500	39.15	21.15	60.30	66.00	-5.70	QP
2	0.1500	22.59	21.15	43.74	56.00	-12.26	AVG
3	0.7261	26.45	20.44	46.89	56.00	-9.11	QP
4	0.7261	13.12	20.44	33.56	46.00	-12.44	AVG
5	4.1056	23.31	19.47	42.78	56.00	-13.22	QP
6	4.1056	8.32	19.47	27.79	46.00	-18.21	AVG
7	7.2151	23.23	19.59	42.82	60.00	-17.18	QP
8	7.2151	9.92	19.59	29.51	50.00	-20.49	AVG
9	16.0036	26.87	20.22	47.09	60.00	-12.91	QP
10	16.0036	15.31	20.22	35.53	50.00	-14.47	AVG
11	23.8111	29.03	20.24	49.27	60.00	-10.73	QP
12	23.8111	16.73	20.24	36.97	50.00	-13.03	AVG



^{***}Note: 1) Pre-scan all modes and recorded the worst case results in this report.

²⁾ Margin=Reading level + Correct - Limit

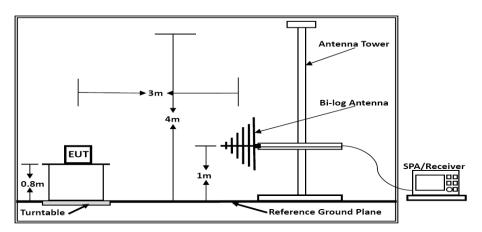
3.2. Radiated emission Measurement

3.2.1. Test Equipment

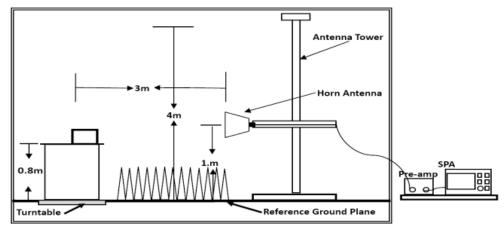
The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	AUDIX	E3	/	N/A	N/A
2	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2018-07-2 6	2021-07-2 5
3	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-192 5	2018-07-0	2021-07-0
4	EMI Test Receiver	R&S	ESR 7	101181	2020-06-2	2021-06-2
5	Broadband Preamplifier	/	BP-01M18G	P190501	2020-06-2	2021-06-2
6	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-H Y	2020-09-2 6	2021-09-2 5
7	Positioning Controller	MF	MF7082	MF780208 03	2020-06-2	2021-06-2
8	RF Cable-R03m	Jye Bao	RG142	CB021	2020-06-2	2021-06-2

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.					

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.

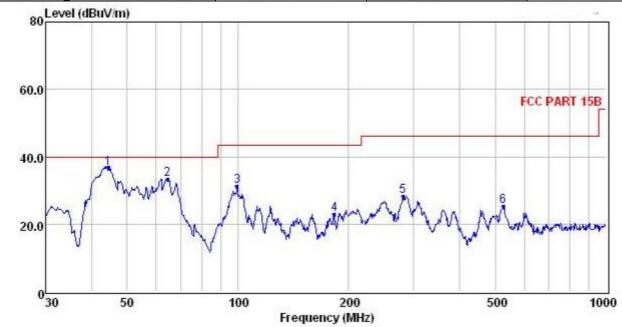
The bandwidth of the EMI test receiver is set at 120kHz, 300kHz. The frequency range from 30MHz to 1000MHz is checked.

3.2.7. Radiated Emission Noise Measurement Result

PASS.

The scanning waveforms please refer to the next page.

Test Model	FM-BLC	Test Mode	Lighting
Environmental Conditions	22.1℃, 53.2% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Carl Fu	Test Voltage	AC 120V/60Hz

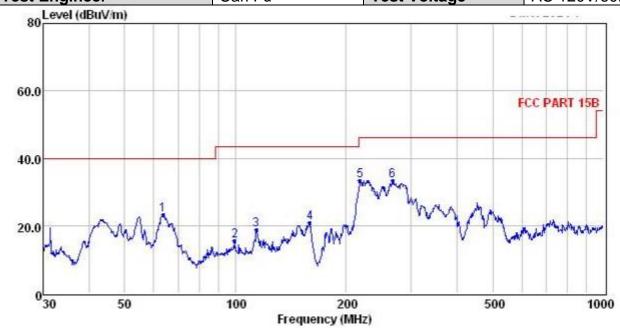


Freq Reading CabLos Antfac Measured Limit Over Remark MHz dBuV dB dB/m dBuV/m dBuV/m 44.43 52.61 0.41 13.55 36.58 40.00 -3.42 1 QP 2 64.43 51.90 0.52 10.93 33.30 40.00 -6.70QP 3 99.53 47.58 0.61 13.13 31.22 43.50 -12.28QP 4 183.20 42.53 0.70 9.96 22.87 43.50 -20.63 QP -17.635 281.01 45.10 1.06 12.69 28.37 46.00 QP 526.40 37.83 1.45 17.07 25.25 46.00 -20.75QP

Note: 1. All readings are Quasi-peak values.

- 2. Measured= Reading + Antenna Factor + Cable Loss
- 3. The emission that are 20db below the official limit are not reported

Test Model	FM-BLC	Test Mode	Lighting
Environmental Conditions	22.1℃, 53.2% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Carl Fu	Test Voltage	AC 120V/60Hz



Reading CabLos Antfac Measured Limit Over MHz dBuV dB dB/m dBuV/m dBuV/m dB 11.29 63.54 41.39 0.48 23.11 40.00 -16.89 2 99.53 31.95 0.61 13.13 15.59 43.50 -27.91QP -24.82 3 114.11 36.66 0.65 11.52 18.68 43.50 QP -22.784 159.23 41.60 0.75 8.64 20.72 43.50 QP 5 11.15 51.70 218.31 0.88 33.35 46.00 -12.65 QP

33.18

46.00

-12.82

Note: 1. All readings are Quasi-peak values.

50.36

267.55

2. Measured= Reading + Antenna Factor + Cable Loss

1.00

3. The emission that are 20db below the official limit are not reported

12.28

Note: Pre-Scan all mode, Thus record worse case mode result in this report.

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-----