FCC SDoC TEST REPORT

ARTIKA FOR LIVING INC.

Sunray or Skylight

Test Model: FLP14SC-C

Additional Model No.: Please Refer To Page 7

Prepared for : ARTIKA FOR LIVING INC.

Address : 1756, 50th avenue, Lachine, Québec, Canada H8T 2V5

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : Room 101, 201, Building A and Room 301, Building C,

Juji Industrial Park, Yabianxueziwei, Shajing Street,

Bao'an District, Shenzhen, Guangdong, 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 : November 26, 2020

Number of tested samples : 1

sample number : 201109202A-1

Date of Test : November 26, 2020 ~ December 01, 2020

Date of Report : December 02, 2020



FCC SDoC TEST REPORT FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014

Report Reference No.: LCS201109202AE

Date Of Issue...... December 02, 2020

Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address: : Room 101, 201, Building A and Room 301, Building C, Juji

Industrial Park, Yabianxueziwei, Shajing Street, Bao'an

District, Shenzhen, Guangdong, 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, Québec, Canada H8T 2V5

Test Specification

Standard....: FCC 47 CFR Part 15 Subpart B, Class B(SDoC), 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.: : Sunray or Skylight

Test Model: FLP14SC-C

Trade Mark: : ARTIKA

Ratings: Input: AC120V, 60Hz, 45W

Result: : Positive

Compiled by:

Supervised by:

Approved by:

Scent Hu / Administrators

Jin Wang/ Technique principal

Gavin Liang/ Manager

(Jains Piang

FCC -- TEST REPORT

Test Report No.: LCS201109202AE December 02, 2020

Date of issue

Test Model	: FLP14SC-C
EUT	: Sunray or Skylight
Applicant	: ARTIKA FOR LIVING INC.
	: 1756, 50th avenue, Lachine, Québec, Canada H8T 2V5
Telephone	
Fax	
	: SHININGMOON LIGHTING (CAMBODIA) CO.,LTD.
Address	D3 Y Seven Industrial Park III ,National road no.4, Sangkrous Cheat village, Trapang Korng Commune, Samrong Toung District, Kampong Speu, Cambodia
Telephone	:/
Fax	: /
Factory	: SHININGMOON LIGHTING (CAMBODIA) CO.,LTD.
Address	·
	Sangkrous Cheat village, Trapang Korng Commune,
	Samrong Toung District, Kampong Speu, Cambodia
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.

1	-CC	ID·2A`	YFP-	FI P	14SC-C

Revision History

Revision	Issue Date	Revisions	Revised By
000	000 December 02, 2020		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(SDoC), ANSI C63.4 -2014	Class B	PASS				
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014	Class B	PASS				
N/A is an abbreviation for Not Applicable.							

Test mode:		
Mode 1	Lighting	Record

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Sunray or Skylight

Trade Mark : ARTIKA

Test Model : FLP14SC-C

Additional Model : FLP14SC-XXXXXXX, FLP14-XXXXXXX-XXXXXX

("X" can be A to Z and/or 0 to 9 and

or/spaces(commerical code)

Model Declaration : PCB board, structure and internal of these model(s) are

the same, So no additional models were tested

Power Supply : Input: AC120V, 60Hz, 45W

Highest internal frequency (Fx)

: Fx ≤ 108 MHz

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
			-

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

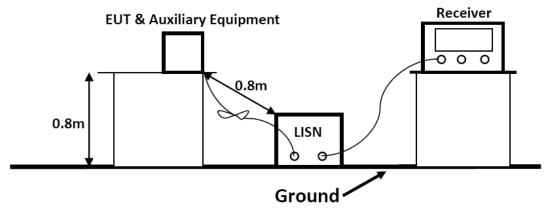
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

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			2021-06-21
4	10dB Attenuator	SCHWARZBE CK	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	5 ~ 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 Mode 1 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.

8

9

10

11

5.6130

10.3515

10.5629

19.5360

18.10

36.18

22.37

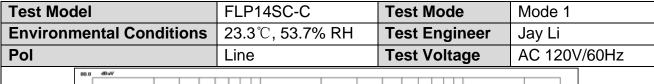
35.04

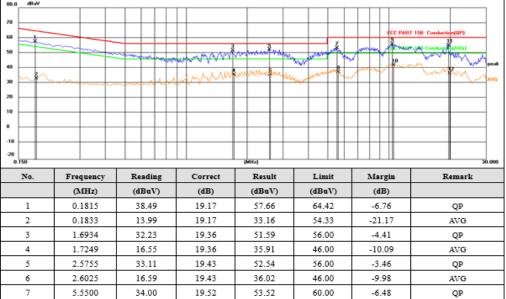
19.52

19.71

19.74

20.07





	12	19.8600	16.85	20.05	36.90	50.00	-13.10	AVG	
Test Model		FLF	FLP14SC-C		Test	Test Mode		1	
Environmental Conditions		ns 23.3	23.3℃, 53.7% RH		Test	Test Engineer			
Pol		Net	utral		Test '	Voltage	AC 12	0V/60Hz	

37.62

55.89

42.11

55.11

50.00

60.00

50.00

60.00

-12.38

-4.11

-7.89

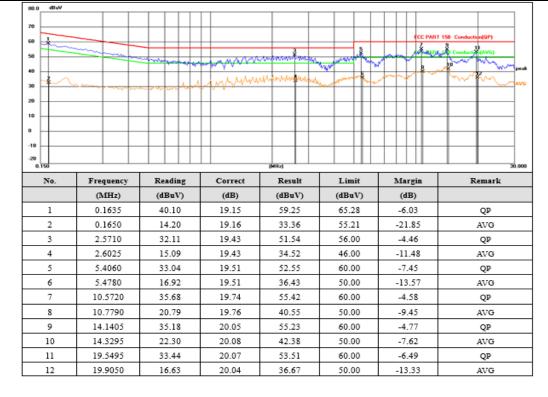
-4.89

AVG

QΡ

AVG

QP



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

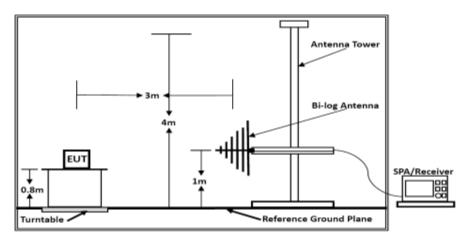
3.2. Radiated emission Measurement

3.2.1. Test Equipment

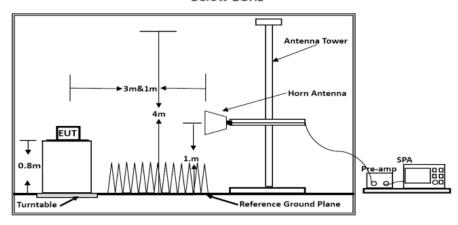
The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	AUDIX	E3	/	N/A	N/A
2	By-log Antenna	SCHWARZBECK	VULB9163			2021-07-25
3	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-192 5	2018-07-02	2021-07-01
4	EMI Test Receiver	R&S	ESR 7	101181	2020-06-22	2021-06-21
5	Broadband Preamplifier	/	BP-01M18G	P190501	2020-06-22	2021-06-21

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 STREI	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 Emiss	sion Above 1GHz	
Frequency	Distance	Peak Limit	Average Limit
(MHz)	(Meters)	(dBµV/m)	(dBµV/m)
Above 1000	3	74	54
***Note: The lower limit	t applies at the tran	sition 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 Mode 1 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.

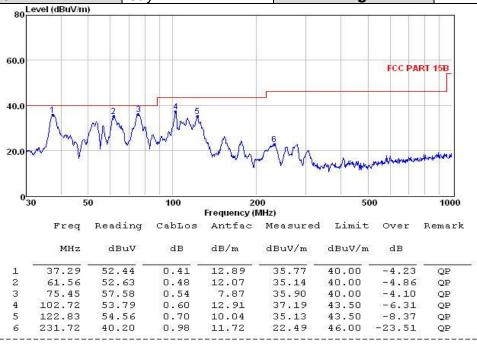
The bandwidth of the EMI test receiver is set at 120kHz, 300kHz. The frequency range from 30MHz to 1000MHz is checked.

3.2.7. Radiated Emission Noise Measurement Result

PASS.

The scanning waveforms please refer to the next page.

Test Model	FLP14SC-C	Test Mode	Mode 1
Environmental Conditions	22.2℃, 53.1% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Jay Li	Test Voltage	AC 120V/60Hz



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	FLP14SC-	·C 1	est Mode		Mode 1
Environmental Conditions	22.2°C, 53	.1% RH [Detector Fur	nction	Quasi-peak
Pol	Horizontal		Distance		3m
Test Engineer	Jay Li	1	est Voltage		AC 120V/60H
80 Level (dBuV/m)					
60.0					
60.0				FCC PART	15B
40.0	3 4				
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030 50	100	200 Fraguency (MHz)	50	O	1000
030 50	100	Frequency (MHz)	50		
030 50	100	Frequency (MHz)	50		1000 emark
20.0 0 30 50 Freq Re	100	Frequency (MHz)	50 sured Limit		
20.0 030 50 Freq Re	100 ading CabLos	Frequency (MHz) Antfac Mea dB/m dBu	50 sured Limit V/m dBuV/m	Over R	emark
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20.0 030 50 Freq Re MHz 0 1 37.42 4 2 56.39 4	100 ading CabLos dBuV dB 4.03 0.41 2.83 0.47	Frequency (MHz) Antfac Mea dB/m dBu 12.92 27 12.93 26	50 sured Limit V/m dBuV/m .39 40.00 .20 40.00	Over R dB -12.61 -13.80	OP OP
20.0 0 30 50 Freq Re MHz 1 37.42 4 2 56.39 4: 3 75.18 5:	100 ading CabLos dBuV dB 4.03 0.41 2.83 0.47 5.24 0.54	Frequency (MHz) Antfac Mea dB/m dBu 12.92 27 12.93 26 7.83 33	50 sured Limit V/m dBuV/m .39 40.00 .20 40.00 .52 40.00	Over R dB -12.61 -13.80 -6.48	OP OP OP
20.0 030 50 Freq Re MHz 1 37.42 4 2 56.39 4: 2 56.39 4: 3 75.18 5: 4 99.88 5.	100 ading CabLos dBuV dB 4.03 0.41 2.83 0.47	Frequency (MHz) Antfac Mea dB/m dBu 12.92 27 12.93 26 7.83 33 13.15 34	50 sured Limit V/m dBuV/m .39 40.00 .20 40.00 .52 40.00	Over R dB -12.61 -13.80 -6.48 -8.64	OP OP

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

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

4. PHOTOGRAPH



Photo of Power Line Conducted Measurement

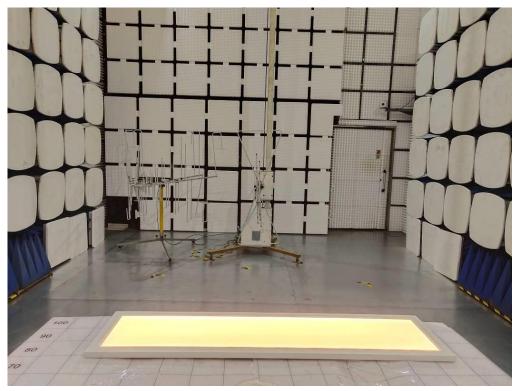


Photo of Radiated Measurement

5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

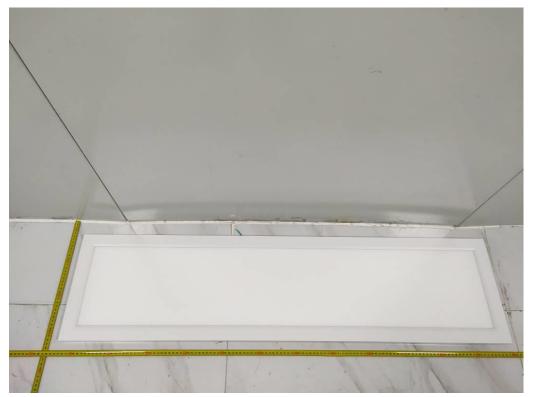


Fig. 1



Fig. 2

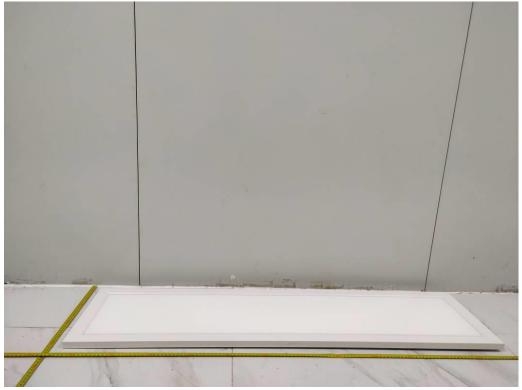


Fig. 3

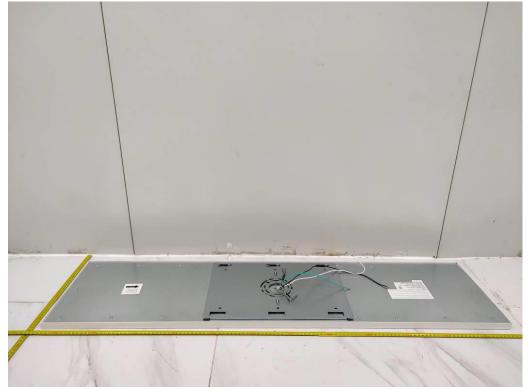


Fig. 4

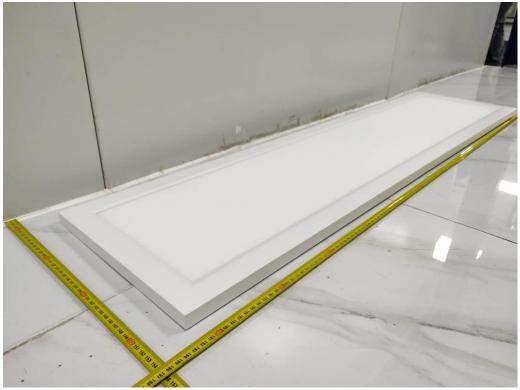


Fig. 5



Fig. 6



Fig. 7

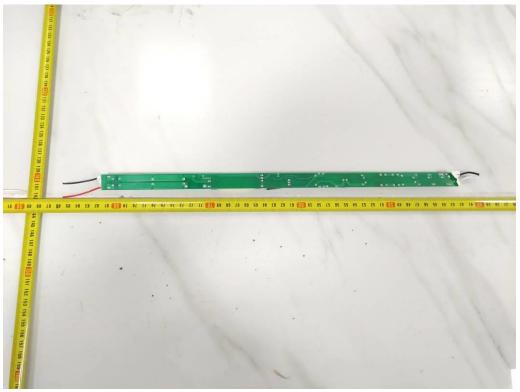


Fig. 8



Fig. 9

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