SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.	FCCID: 2AUHGFM-M3-WT	Report No.: LCS201203079AE
---	----------------------	----------------------------

FCC Part 15, Subpart B, Class B

ARTIKA FOR LIVING INC

Surface mounted Ceiling Lamp LED 16W

Test Model: FM-M3-WT

Additional Model No.: FM-M3-XXXXXX

(Note: XXXXXX represents code of the customer, 'X' can be A-Z /0 to 9 or blank)

Prepared for Address	 ARTIKA FOR LIVING INC 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5LachineQCH8T 2V5Canada
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	: December 07, 2020
Number of tested samples	: 1
Serial number	: Prototype
Date of Test	: December 07, 2020 ~ December 10, 2020
Date of Report	: December 14, 2020

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 1 of 15

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

Cherry Chen	Jin Wang	Fains Frang
Compiled by:	Supervised by:	Approved by:
Result	: Positive	
Output: DC 30-42V, 350mA, 14.7W Max		
Trade Mark : Artika Ratings		
Test Model		
-	: Surface mounted Ceiling Lamp L	.ED 16W
This publication may be reprod as the SHENZHEN LCS COMF copyright owner and source of LABORATORY LTD. takes no	CE TESTING LABORATORY LTD. A uced in whole or in part for non-comm PLIANCE TESTING LABORATORY L the material. SHENZHEN LCS COMF responsibility for and will not assume rpretation of the reproduced material o	nercial purposes as lon TD. is acknowledged a PLIANCE TESTING liability for damages
		I rights reconved
TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.		
Test Report Form No [:] LCSEMC-1.0		
	[:] FCC 47 CFR Part 15 Subpart B, Cla -2014	ass B, ANSI C63.4
Test Specification		
Address	[:] 1756 50th avenue, Lachine, Qc, Ca 2V5LachineQCH8T 2V5Canada	nadaH8T
Applicant's Name	[•] ARTIKA FOR LIVING INC	
Testing Location/ Procedure	Yabianxueziwei, Shajing Street, Bac 518000, China : Full application of Harmonised stand Partial application of Harmonised st Other standard testing method	dards
• •	: 101, 201 Bldg A & 301 Bldg C, Juji	Industrial Park
	Shenzhen LCS Compliance Testi	ng Laboratory Ltd.
Date Of Issue	• December 14, 2020	

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 2 of 15

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCCID:	2AUHGFM-M3-WT Report No.: LCS201203079AE
--	--

FCC -- TEST REPORT

Tast Papart No	LCS201203079AE	December 14, 2020
Test Report No. :	LC3201203079AE	Date of issue

Test Model	: FM-M3-WT
EUT	: Surface mounted Ceiling Lamp LED 16W
Applicant	: ARTIKA FOR LIVING INC
	: 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5LachineQCH8T 2V5Canada
Telephone	
Fax	:/
	: ARISING TECHNOLOGY CO., LTD (FOSHAN SUBSIDIARY)
Address	 1st /RM302, Building 15, Shunde Zhifuyuan, No. 8, Erhuan Road, Gaozan Village, Xingtan Town, Shunde District, Foshan City, P.R.C.
Telephone	
Fax	:/
	: ARISING TECHNOLOGY CO., LTD (FOSHAN SUBSIDIARY)
Address	: 1st /RM302, Building 15, Shunde Zhifuyuan, No. 8, Erhuan Road, Gaozan Village, Xingtan Town, Shunde District, Foshan City, P.R.C.
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	December 14, 2020	Initial Issue	Gavin Liang

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 4 of 15

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	
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	15
5. EXTERIOR PHOTOGRAPHS OF THE EUT	15
6. INTERIOR PHOTOGRAPHS OF THE EUT	15

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.

Description of Test ItemStandardLimitsConducted disturbance at mains terminalsFCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014Class BDediated disturbanceFCC 47 CFR Part 15 Subpart B, ClassClass B	EMISSION			
at mains terminals B, ANSI C63.4 -2014	•			Results
ECC 47 CEP Part 15 Subpart B. Class	nducted disturbance F at mains terminals	Class	Class B	PASS
Radiated disturbance B, ANSI C63.4 -2014 Class E	adiated disturbance	Class	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.		

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCCID: 2AUHGFM-M3-WT Report No.: LCS201203079AE

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	: Surface mounted Ceiling Lamp LED 16W
Trade Mark	: Artika
Test Model	: FM-M3-WT
Additional Model	: FM-M3-XXXXXX (Note: XXXXXX represents code of the customer, 'X' can be A-Z /0 to 9 or blank)
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	: Input: AC 100-135V, 50-60Hz, 0.4A Max Output: DC 30-42V, 350mA, 14.7W Max
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		
$Fx > 1 \text{ GHz} \qquad 5 \times Fx \text{ up to a maximum of } 6 \text{ GHz}$			
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.

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 7 of 15 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)	\pm 3.48 dB	\pm 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 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

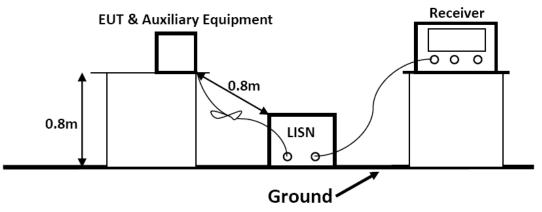
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

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 2	2021-06-21
3	Artificial Mains	R&S	ENV216	101288	2020-06-2 2	2021-06-21
4	10dB Attenuator	SCHWARZB ECK	MTS-IMP-136	261115-001-0 032	2020-06-2 2	2021-06-21
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2020-10-2 0	2021-10-19

3.1.2.Block Diagram of Test Setup



3.1.3.Test Standard

Power Line Conducted Emission Limits (Class B) Frequency Limit (dB_µV) (MHz) Quasi-peak Level Average Level 0.15 0.50 66.0 ~ 56.0 * 56.0 ~ 46.0 * ~ 0.50 46.0 5.00 56.0 ~ 30.00 60.0 5.00 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

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 9 of 15 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.

Fest Model			FN	FM-M3-WT		Test Mode		Lighting	
Environmental Conditions			ons 23	23.3℃, 53.7% RH		Test Engineer		Jay Li	
Pol				Line		Test Voltage		AC 120V/60	Hz
	80.0 dBvV								
	70								
	60 1 3						FCC PART	150 Conduction(QP)	
	50	min					FCC PART	158 Conduction(AVG)	
	40		mon				2 2		
	30	men		and a second and a s	monumal	m Aun		manufamen.	
	20			manne		an America		Marriage and and	
	10								
	0								
	-10								
	0.150				(MHz)			30.000	
	No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark	
		(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)		
	1	0.1590	40.30	19.15	59.45	65.52	-6.07	QP	
	2	0.1615	17.74	19.15	36.89	55.39	-18.50	AVG	
	3	0.2130	37.82	19.19	57.01	63.09	-6.08	QP	
	4	0.2151	13.54	19.20	32.74	53.01	-20.27	AVG	
	5	0.2805	36.03	19.25	55.28	60.80	-5.52	QP	
	6	0.2850	12.27	19.26	31.53	50.67	-19.14	AVG	
	7	4.7895	18.63	19.49	38.12	56.00	-17.88	QP	
	8	4.8390	5.18	19.49	24.67	46.00	-21.33	AVG	
	9	7.8315	22.61	19.62	42.23	60.00	-17.77	QP	
	10	7.9350	8.96	19.63	28.59	50.00	-21.41	AVG	
	11	11.9220	22.58	19.85	42.43	60.00	-17.57	QP	
	12	12.1694	7.14	19.88	27.02	50.00	-22.98	AVG	
Test I	Model		FM	1-M3-WT		Test N	lode	Lighting	
Envir	onmenta	al Conditi	ons 23	.3℃, 53.7	7% RH	Test E	ngineer	Jay Li	
Pol			Ne	utral		Test V	oltage	AC 120V/60	Hz
	80.0 dBuV				_				
	70								
	60 1	3					ECC PART 1	SB Conduction(QP)	
	50	m					ECC PART 1	SB Conduction(AVG)	
	40		m make	······································		2			
	30	m	A		moun	many	and and the second second	and a second and a second and a second	
	20				munun	AN A MAN		manuel ave	
	10								
	0								
	-10								
	-20								
	0.150	Frequences	Deading	Correct	(MHz) Result	Limit	Marnin	30.000 Demark	
	No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	(dBuV)	Limit (dBuV)	Margin (dB)	Remark	
	1	(MHz) 0.1770	40.39	(dB) 19.17	(aBuv) 59.56	(dBuV) 64.63	(dB) -5.07	QP	
	2	0.1796	16.12	19.17	35.29	54.50	-19.21	AVG	
	3	0.2265	37.25	19.17	56.46	62.58	-6.12	QP	
	4	0.2203	14.60	19.21	33.81	52.48	-18.67	AVG	
	4	0.2292	26.42	19.21	45.71	56.00	-18.67	AVG QP	
	6	0.7352	11.58	19.29	30.88	46.00	-10.29	AVG	
	7	1.6350	22.70	19.35	42.05	56.00	-13.95	QP	
	8	1.6575	7.95	19.35	27.30	46.00	-13.95	AVG	
	9	4.4340	19.57	19.35	39.04	56.00	-16.96	QP	
	3	4.4340	3.94	19.47	23.41	46.00	-22.59	AVG	
	10				20.41	40.00	22.33	~~ 0	
	10				39.13	60.00	-20.87	OP	
	10 11 12	4.5000 18.4560 18.9195	19.02 5.46	20.11 20.10	39.13 25.56	60.00 50.00	-20.87 -24.44	QP AVG	

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

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 11 of 15

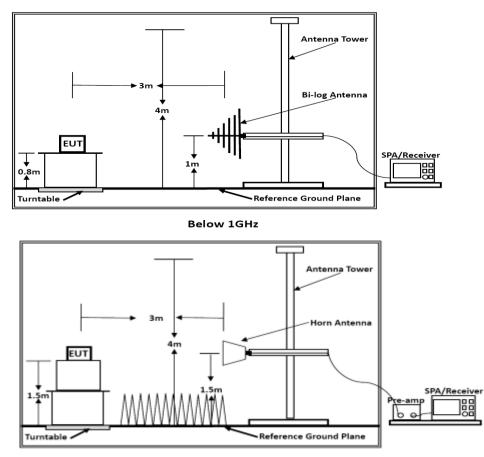
3.2. Radiated emission Measurement

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	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 2	2021-07-0 1
4	EMI Test Receiver	R&S	ESR 7	101181	2020-06-2 2	2021-06-2 1
5	Broadband Preamplifier	/	BP-01M18G	P190501	2020-06-2 2	2021-06-2 1

3.2.2. Block Diagram of Test Setup



Above 1GHz

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 12 of 15 3.2.3. Radiated Emission Limit (Class B)

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 I	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 i	(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.

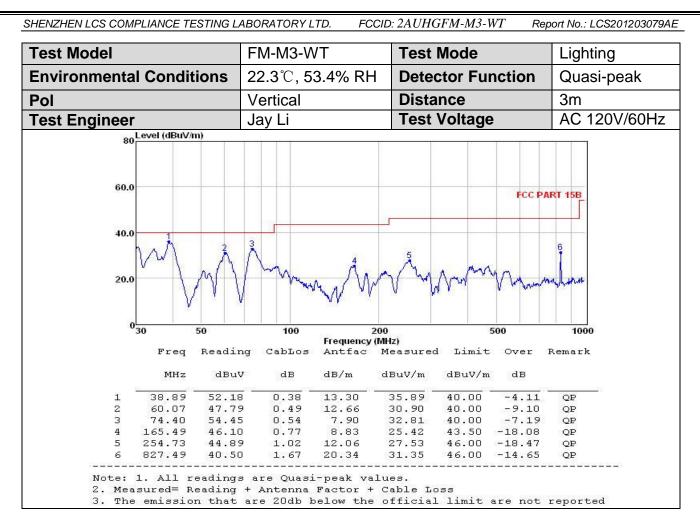
The bandwidth of the EMI test receiver is set at 120kHz, 300kHz. The frequency range from 30MHz to 1000MHz is checked.

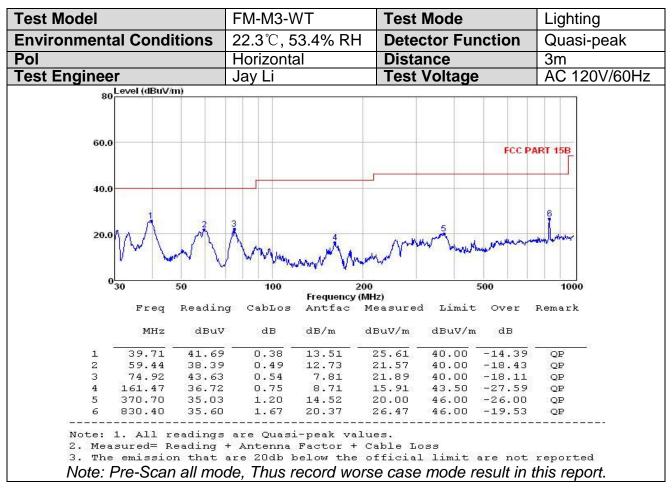
3.2.7. Radiated Emission Noise Measurement Result

PASS.

The scanning waveforms please refer to the next page.

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 13 of 15





This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 14 of 15

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-----

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 15 of 15