



FCC TEST REPORT

For

Artika For Living Inc.

ceiling type

Test Model: 10FM-EUR

Prepared for : Artika For Living Inc.
Address : 1756 50th avenue, Montreal (Lachine), Quebec, H8T
2V5, Canada

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,
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Web : www.lcs-cert.com
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Date of receipt of test sample : January 3, 2024
Number of tested samples : 1
Serial number : Prototype
Date of Test : January 3, 2024 to January 11, 2024
Date of Report : January 12, 2024





TEST REPORT

Report No. : LCSA12283134E	
Date of Issue : January 12, 2024	
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 <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>	
Applicant's Name : Artika For Living Inc.	
Address : 1756 50 th avenue, Montreal (Lachine), Quebec, H8T 2V5, Canada	
Test Specification	
Standard : FCC 47 CFR Part 15, Subpart 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. : ceiling type	
Trade Mark : N/A	
Test Model : 10FM-EUR	
Result : Positive	

Compiled by:

Emma wang / File Administrator

Supervised by:

Baron Wen / Technique principal

Approved by:

Gavin Liang / Manager





TEST REPORT

Test Report No.: LCSA12283134E	<u>January 12, 2024</u> Date of issue
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Test Model	: 10FM-EUR
EUT.....	: ceiling type
Applicant	: Artika For Living Inc.
Address.....	: 1756 50 th avenue, Montreal (Lachine), Quebec, H8T 2V5, Canada
Telephone	: /
Fax.....	: /
Manufacturer	: Zhongshan Dison Lighting Co.,Ltd
Address.....	: H building, No.11 LeFeng 4th Road, Henglan Town, Zhongshan City, Guangdong
Telephone	: /
Fax.....	: /
Factory	: Zhongshan Dison Lighting Co.,Ltd
Address.....	: H building, No.11 LeFeng 4th Road, Henglan Town, Zhongshan City, Guangdong
Telephone	: /
Fax.....	: /

Test Result	Positive
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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

Report Version	Issue Date	Revision Content	Revised By
000	January 12, 2024	Initial Issue	/





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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.

Description of Test Item	Standard	Limits	Result
Conducted emissions on AC mains	FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014	15.107, Class B	Pass
Radiated emissions (Below 1GHz)	FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014	15.109, Class B	Pass





1.2 Description of Test Modes

No	Title	Description
TM1	Lighting(AC 120V/60Hz)	Record





2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT	: ceiling type
Test Model	: 10FM-EUR
Power Supply	: Input: 120V~, 60Hz, 23W
Highest Internal Frequency	: 1.705-108MHz
Classification of Equipment	: Class B

Highest internal frequency (Fx)	Highest measured frequency
$F_x \leq 1.705\text{MHz}$	30MHz
$1.705\text{MHz} < F_x \leq 108\text{MHz}$	1GHz
$108\text{MHz} < F_x \leq 500\text{MHz}$	2GHz
$500\text{MHz} < F_x \leq 1000\text{MHz}$	5GHz
$F_x > 1\text{GHz}$	5 x Fx up to a maximum of 40GHz

2.2 Support equipment List

The EUT was tested as an independent device.

2.3 Description of Test Facility

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.

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

2.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emission (150kHz to 30MHz)	± 2.35 dB
Radiated Emission (30MHz to 1000MHz)	± 3.48 dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	





3. MEASURING DEVICES AND TEST EQUIPMENT

Conducted emissions on AC mains					
Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	Farad	EZ	/	/	/
Artificial Mains	R&S	ENV216	101288	2023-06-09	2024-06-08
Pulse Limiter	R&S	ESH3-Z2	102750-NB	2023-08-15	2024-08-14
EMI Test Receiver	R&S	ESR3	102312	2023-02-25	2024-02-24

Radiated emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	Farad	EZ	/	/	/
EMI Test Software	AUDIX	E3	/	/	/
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
EMI Test Receiver	R&S	ESR3	102311	2023-08-15	2024-08-14
Broadband Preamp	/	BP-01M18G	P190501	2023-06-09	2024-06-08
EMI Test Receiver	R&S	ESCI7	101173	2023-10-25	2024-10-24
By-log Antenna	SchwarzZBECK	VULB9163	01428	2023-09-05	2024-09-04





4. EMISSION TEST RESULTS (EMI)

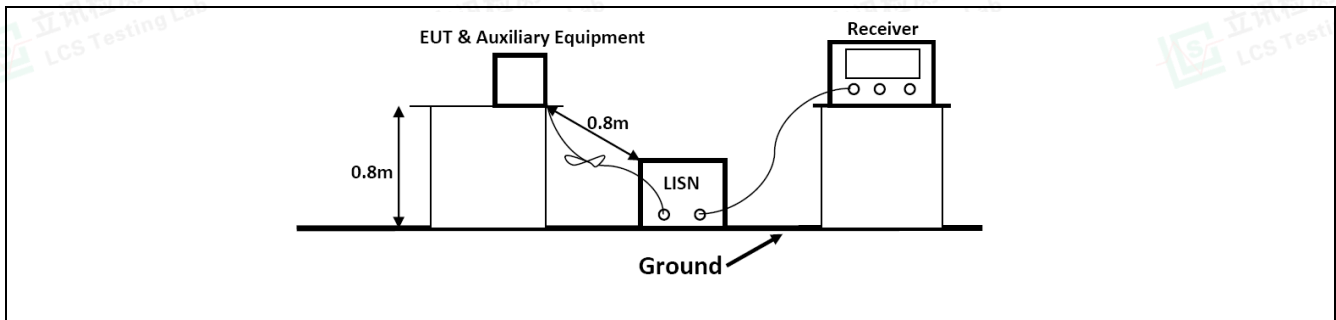
4.1 Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBμV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	ANSI C63.4-2014		
Procedure:	An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Level= Read Level+ Cable Loss+ LISN Factor		

4.1.1 E.U.T. Operation:

Operating Environment:			
Temperature:	23.5 °C	Humidity:	53.6 %
Pre test mode:	TM1		
Final test mode:	TM1		

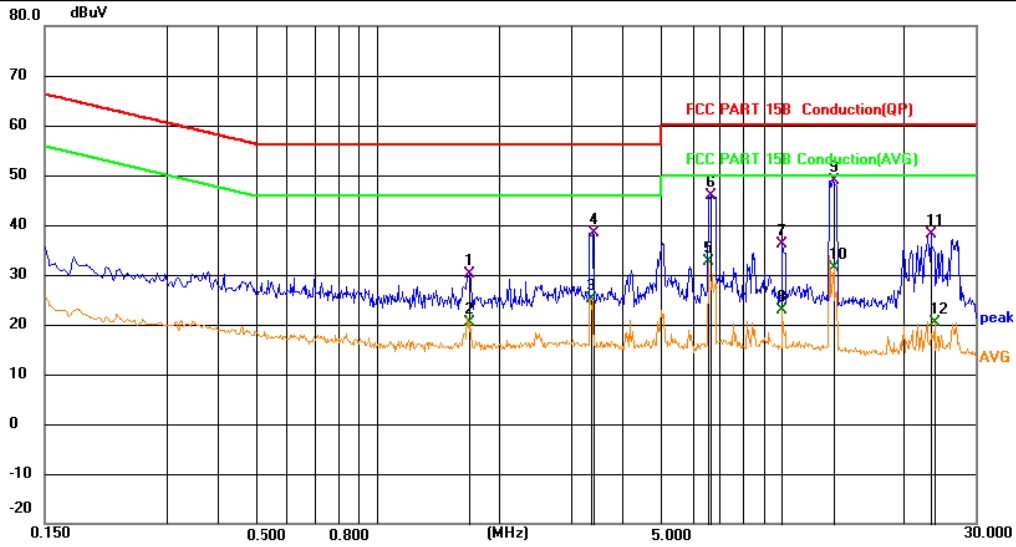
4.1.2 Test Setup Diagram:





4.1.3 Test Data:

TM1 / Line: Line

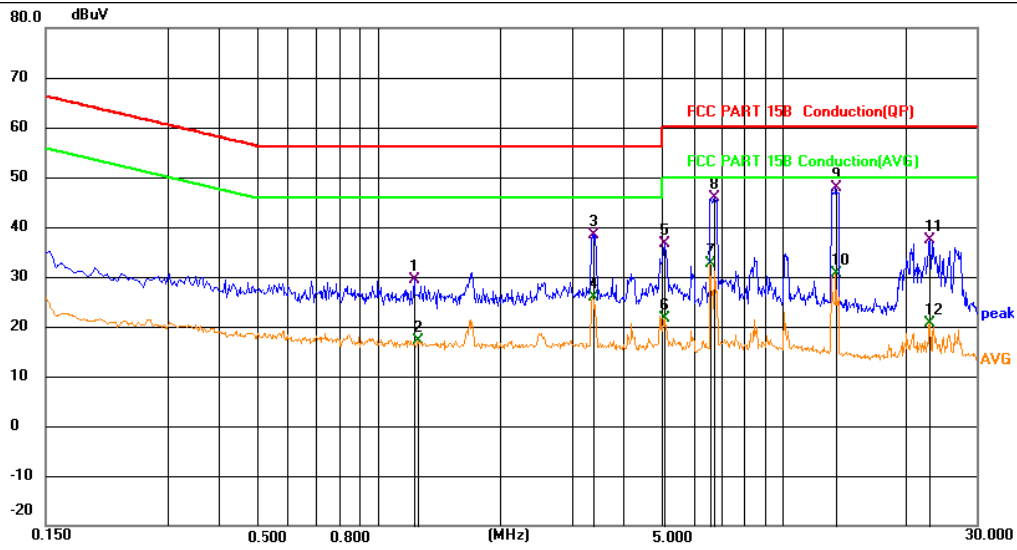


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	1.6935	9.86	20.18	30.04	56.00	-25.96	QP	
2	1.6935	0.17	20.18	20.35	46.00	-25.65	AVG	
3	3.3541	4.99	20.26	25.25	46.00	-20.75	AVG	
4	3.4036	18.18	20.25	38.43	56.00	-17.57	QP	
5	6.5446	12.67	20.01	32.68	50.00	-17.32	AVG	
6	6.6436	25.91	20.01	45.92	60.00	-14.08	QP	
7	10.0500	15.72	20.37	36.09	60.00	-23.91	QP	
8	10.0500	2.47	20.37	22.84	50.00	-27.16	AVG	
9 *	13.4071	28.47	20.41	48.88	60.00	-11.12	QP	
10	13.4161	11.02	20.41	31.43	50.00	-18.57	AVG	
11	23.3566	17.68	20.48	38.16	60.00	-21.84	QP	
12	23.7886	-0.13	20.43	20.30	50.00	-29.70	AVG	





TM1 / Line: Neutral



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	1.2255	9.18	20.12	29.30	56.00	-26.70	QP	
2	1.2525	-2.99	20.13	17.14	46.00	-28.86	AVG	
3	3.3676	18.33	20.13	38.46	56.00	-17.54	QP	
4	3.3676	5.65	20.13	25.78	46.00	-20.22	AVG	
5	5.0686	16.71	19.94	36.65	60.00	-23.35	QP	
6	5.0686	1.62	19.94	21.56	50.00	-28.44	AVG	
7	6.5896	12.32	20.36	32.68	50.00	-17.32	AVG	
8	6.7426	25.38	20.40	45.78	60.00	-14.22	QP	
9 *	13.4926	27.81	20.03	47.84	60.00	-12.16	QP	
10	13.4926	10.48	20.03	30.51	50.00	-19.49	AVG	
11	23.0955	16.72	20.62	37.34	60.00	-22.66	QP	
12	23.0955	0.10	20.62	20.72	50.00	-29.28	AVG	





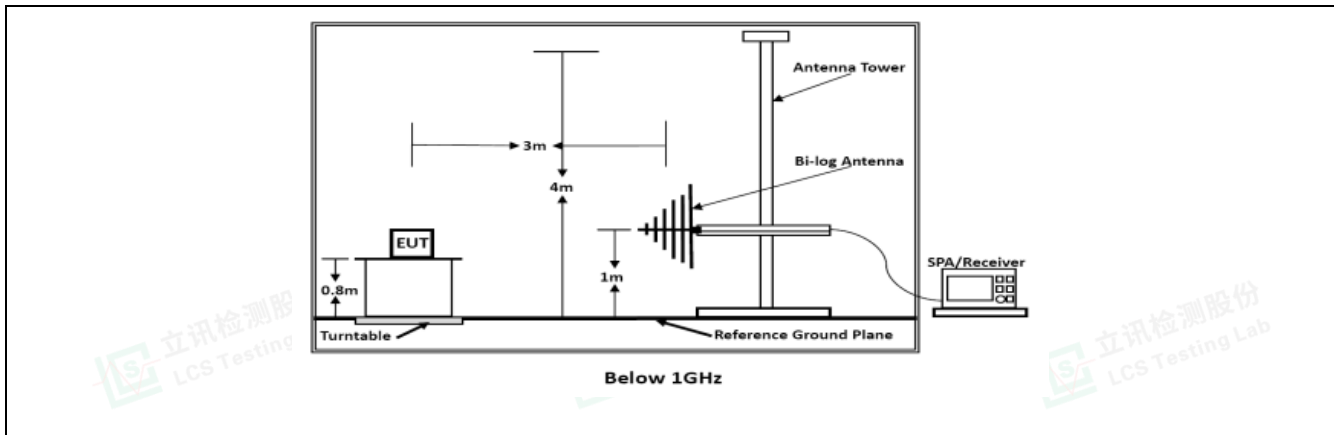
4.2 Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B				
Test Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:				
	Frequency of emission (MHz)	Field strength @3m		Field strength @10m	
		(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)
	30 – 88	100	40	30	29.5
	88 – 216	150	43.5	45	33.1
216 – 960	200	46	60	35.6	
Above 960	500	54	150	43.5	
Test Method:	ANSI C63.4-2014				
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor				

4.2.1 E.U.T. Operation:

Operating Environment:			
Temperature:	26.4 °C	Humidity:	54.2 %
Pre test mode:	TM1		
Final test mode:	TM1		

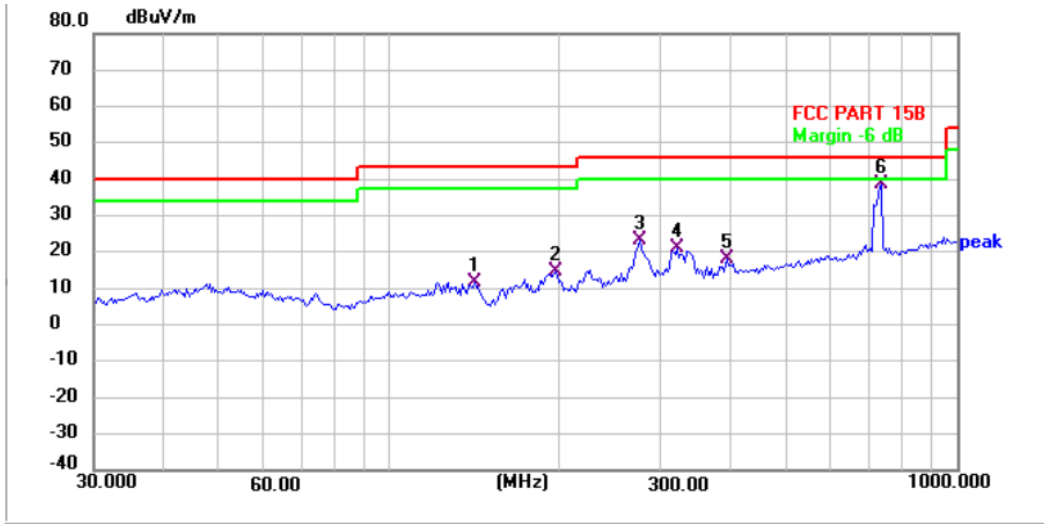
4.2.2 Test Setup Diagram:





4.2.3 Test Data:

TM1 / Polarization: Horizontal

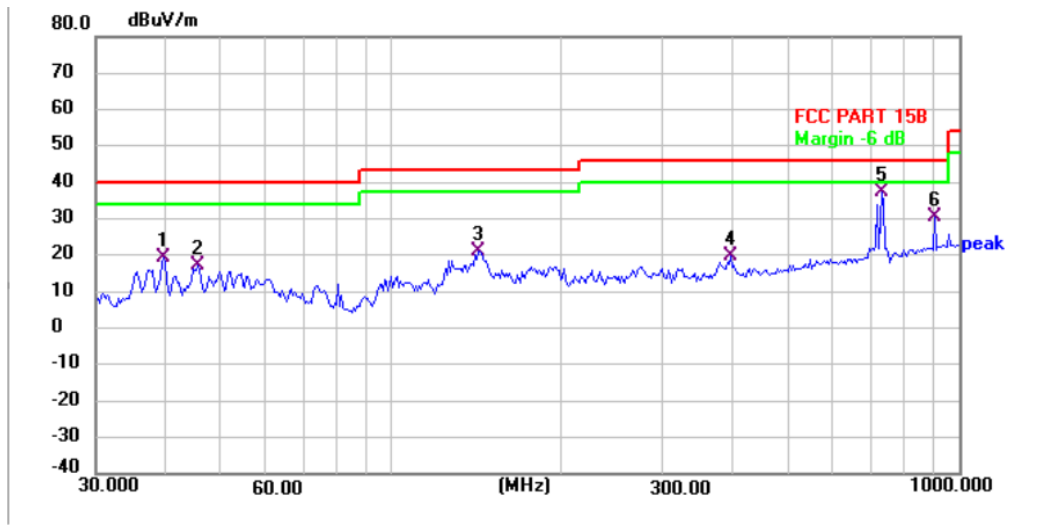


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	140.7767	33.74	-21.95	11.79	43.50	-31.71	QP			P	
2	195.8701	32.97	-18.45	14.52	43.50	-28.98	QP			P	
3	276.3818	39.31	-16.17	23.14	46.00	-22.86	QP			P	
4	320.3306	36.61	-15.36	21.25	46.00	-24.75	QP			P	
5	392.7376	32.39	-14.24	18.15	46.00	-27.85	QP			P	
6 *	734.0373	48.06	-9.29	38.77	46.00	-7.23	QP			P	





TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	39.4587	36.86	-17.42	19.44	40.00	-20.56	QP			P	
2	45.4130	33.20	-16.13	17.07	40.00	-22.93	QP			P	
3	141.7694	42.97	-21.89	21.08	43.50	-22.42	QP			P	
4	395.5071	34.11	-14.21	19.90	46.00	-26.10	QP			P	
5 *	728.8971	46.60	-9.35	37.25	46.00	-8.75	QP			P	
6	906.3040	37.20	-6.82	30.38	46.00	-15.62	QP			P	





5. TEST SETUP PHOTOS

Refer to Appendix - Test Setup Photos for LCSA12283134E.docx





6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

Refer to Appendix - EUT Photos for LCSA12283134E.docx

--- End of Report ---

