FCC Part 15, Subpart B, Class B

ARTIKA FOR LIVING INC.

LED Luminaire

Test Model: RG25W-C1

Additional Model No.: RG25W-XXXXXX, CNLED-C1, CNLED-XXXXXX

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

Prepared for Address	:	ARTIKA FOR LIVING INC. 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5 Lachine Canada
Prepared by Address	:	Shenzhen LCS Compliance Testing Laboratory Ltd. 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel Fax Web Mail	::	(+86)755-82591330 (+86)755-82591332 www.LCS-cert.com webmaster@LCS-cert.com
Date of receipt of test sample Number of tested samples Sample number Serial number Date of Test Date of Report	:	February 19, 2021 1 210219012A Prototype February 19, 2021 ~ March 03, 2021 March 03, 2021

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

Report Reference No				
Date Of Issue	March 03, 2021			
Testing Laboratory Name	Shenzhen LCS Compliance Testin	ng Laboratory Ltd.		
	Yabianxueziwei, Shajing Street, Bac 518000, China	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, Cla	ass B, ANSI C63.4 -201		
Test Report Form No				
	: Shenzhen LCS Compliance Testing	Laboratory Ltd.		
Master TRF	: Shenzhen LCS Compliance Testing : Dated 2011-03 CE TESTING LABORATORY LTD. AI	Il rights reserved.		
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TRF Originator Master TRF SHENZHEN LCS COMPLIAN This publication may be repro- as the SHENZHEN LCS COM copyright owner and source of LABORATORY LTD. takes no	: Shenzhen LCS Compliance Testing : Dated 2011-03 CE TESTING LABORATORY LTD. AI duced in whole or in part for non-comm PLIANCE TESTING LABORATORY L the material. SHENZHEN LCS COMF responsibility for and will not assume erpretation of the reproduced material of : LED Luminaire : RG25W-C1 : Artika : AC 120V, 60Hz,29W	II rights reserved. nercial purposes as long TD. is acknowledged as PLIANCE TESTING liability for damages		
TRF Originator Master TRF SHENZHEN LCS COMPLIAN This publication may be reprod as the SHENZHEN LCS COM copyright owner and source of LABORATORY LTD. takes no resulting from the reader's inte context. Test Item Description Test Model Trade Mark Ratings Result	: Shenzhen LCS Compliance Testing : Dated 2011-03 CE TESTING LABORATORY LTD. AI duced in whole or in part for non-comm PLIANCE TESTING LABORATORY L the material. SHENZHEN LCS COMF responsibility for and will not assume erpretation of the reproduced material of : LED Luminaire : RG25W-C1 : Artika : AC 120V, 60Hz,29W : Positive	Il rights reserved. nercial purposes as long TD. is acknowledged as PLIANCE TESTING liability for damages due to its placement and		

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	SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.	FCCID: 2AYFPRG25W-C1	_
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FCC -- TEST REPORT

Test Report No. :	LCS210219012AE	March 03, 2021 Date of issue
		Date of 10000

Test Model	: RG25W-C1
EUT	: LED Luminaire
	: ARTIKA FOR LIVING INC.
Address	: 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5 Lachine Canada
Telephone	: /
Fax	: /
Manufacturer	: ZHONGSHAN ODEER ELECTRONICS LIGHTING CO., : LTD
Address	: No.4, North Industrial Road, Xiaolan Town, Zhongshan City, Guangdong, China
Telephone	:/
Fax	
Factory	ZHONGSHAN ODEER ELECTRONICS LIGHTING CO.,
Address	
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 03, 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.

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, Class Class BClass B	EMISSION				
at mains terminals B, ANSI C63.4 - 2014	•			Results	
FCC 47 CER Part 15 Subpart B. Class	Conducted disturbance at mains terminals	B, Class Cla	ass B	PASS	
Radiated disturbance B, ANSI C63.4 -2014 Class Class	Radiated disturbance	B, Class Cla	ass 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 Luminaire
 - Trade Mark : Artika
 - Test Model : RG25W-C1
 - Additional Model : RG25W-XXXXXX, CNLED-C1, CNLED-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,29W

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 GHz5 × Fx up to a maximum of 6 GHz					
vers, 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.

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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.

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)	$\pm3.48~\text{dB}$	\pm 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	\pm 3.90 dB	\pm 5.2 dB

2.5. Measurement Uncertainty

(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

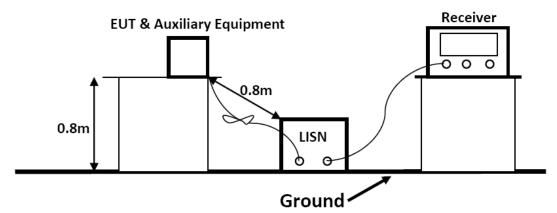
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

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	SCHWARZBECK	NSLK8127	8127716	2020-06-22	2021-06-21
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	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	ÿ	Limit (dBµV)				
	(MHz)		Quasi-peak Level	Average Level			
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *			
0.50	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.							

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.

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 9 of 17 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.

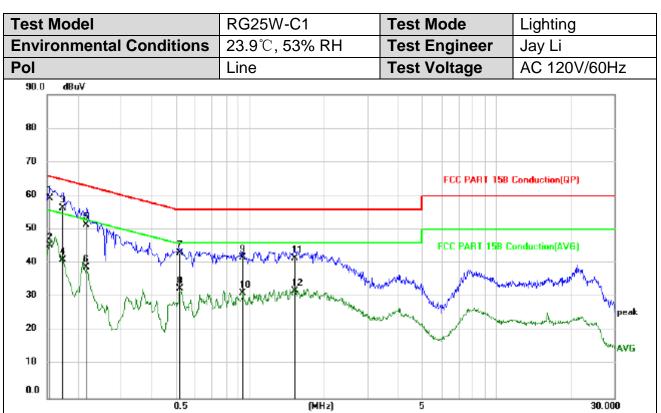
The bandwidth of the test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is investigated

3.1.7.Test Results

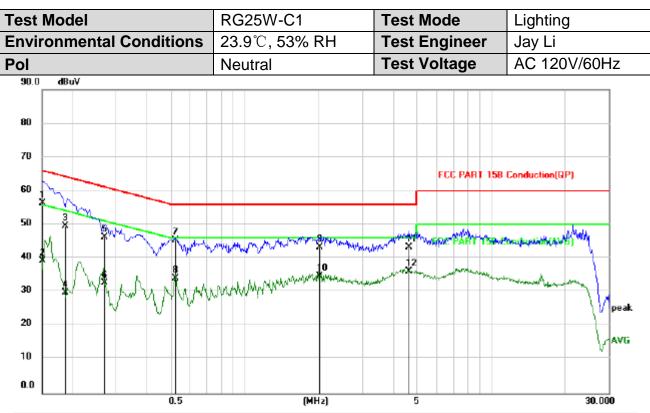
PASS.

The test result please refer to the next page.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1539	49.16	10.24	59.40	65.79	-6.39	QP	
2		0.1539	35.16	10.24	45.40	55.79	-10.39	AVG	
3		0.1724	46.20	10.23	56.43	64.84	-8.41	QP	
4		0.1724	30.89	10.23	41.12	54.84	-13.72	AVG	
5		0.2146	41.17	10.22	51.39	63.03	-11.64	QP	
6		0.2146	28.55	10.22	38.77	53.03	-14.26	AVG	
7		0.5196	32.87	10.20	43.07	56.00	-12.93	QP	
8		0.5196	22.41	10.20	32.61	46.00	-13.39	AVG	
9		0.9384	31.48	10.20	41.68	56.00	-14.32	QP	
10		0.9384	21.05	10.20	31.25	46.00	-14.75	AVG	
11		1.5151	31.37	10.20	41.57	56.00	-14.43	QP	
12		1.5151	21.72	10.20	31.92	46.00	-14.08	AVG	

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	46.16	10.24	56.40	66.00	-9.60	QP	
2		0.1500	28.96	10.24	39.20	56.00	-16.80	AVG	
3		0.1860	39.31	10.23	49.54	64.21	-14.67	QP	
4		0.1860	19.66	10.23	29.89	54.21	-24.32	AVG	
5		0.2692	36.08	10.21	46.29	61.14	-14.85	QP	
6		0.2692	22.56	10.21	32.77	51.14	-18.37	AVG	
7		0.5229	35.09	10.20	45.29	56.00	-10.71	QP	
8		0.5229	23.79	10.20	33.99	46.00	-12.01	AVG	
9		2.0244	33.13	10.20	43.33	56.00	-12.67	QP	
10		2.0244	24.62	10.20	34.82	46.00	-11.18	AVG	
11		4.6277	33.10	10.20	43.30	56.00	-12.70	QP	
12		4.6277	25.87	10.20	36.07	46.00	-9.93	AVG	

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

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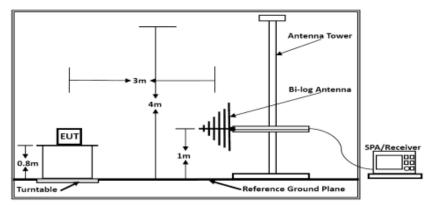
3.2. Radiated emission Measurement

3.2.1. Test Equipment

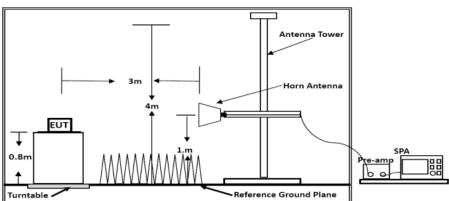
The following test equipments are used during the radiated emission measurement:

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

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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 small	(2) The smaller limit shall apply at the cross point between two								
frequency	frequency bands.								
(3) Distance is	s the distance in m	eters between th	e measuring						
instrument, a	antenna and the cl	osest point of any	part of the						
device or sys	device or system.								
Limits	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.

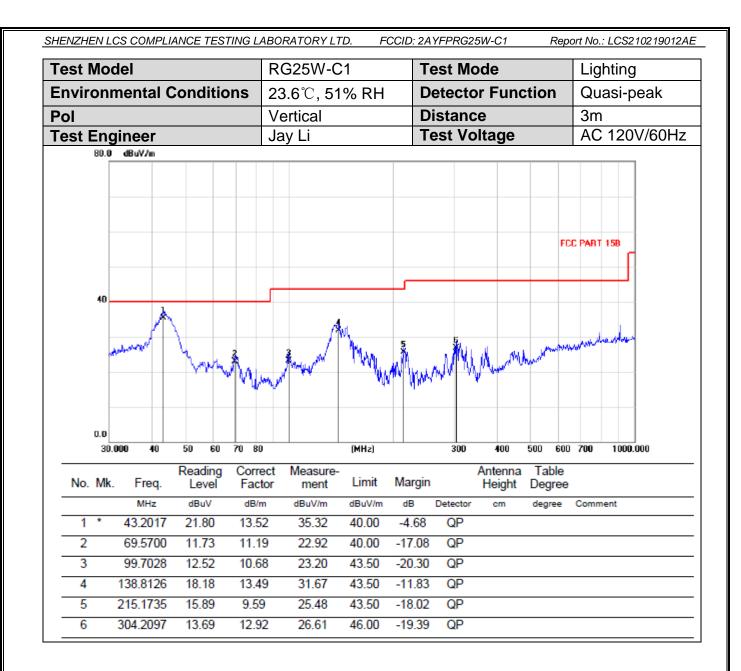
The bandwidth of the EMI test receiver is set at 120kHz, 300kHz. The frequency range from 30MHz to 1000MHz is checked.

3.2.7. Radiated Emission Noise Measurement Result

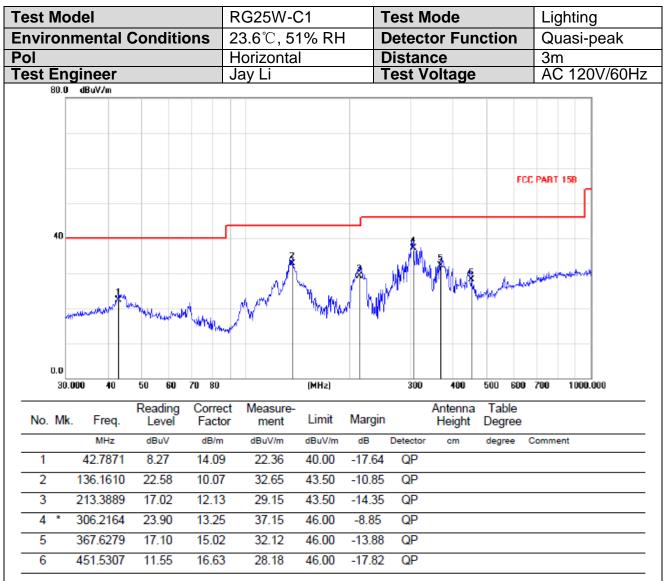
PASS.

The scanning waveforms please refer to the next page.

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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------