FCC Part 15, Subpart B, Class B

ARTIKA FOR LIVING INC.

Dark Sky Bollard Pro

Test Model: 36BOL-DS-MB

Additional Model No.:36BOL-DS-XXXXXX("X" 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. Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park

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Mail : webmaster@LCS-cert.com

Date of receipt of test sample : April 12, 2021

Number of tested samples

Sample number : 210412131A Serial number : Prototype

Date of Test : April 12, 2021 ~ April 20, 2021

Date of Report : April 20, 2021

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

Report Reference No.: LCS210412131AE

Date Of Issue : April 20, 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.....: : Dark Sky Bollard Pro

Test Model: 36BOL-DS-MB

Trade Mark: : Artika

Input:100-240V,50/60Hz, 0.056A Ratings:

Output:36V,300mA

Result: : Positive

Compiled by:

Supervised by:

Approved by:

Cherry Chen

Cherry Chen/ Administrators Jin Wang/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

LCS210412131AE Test Report No.:

April 20, 2021 Date of issue

Test Model: 36BOL-DS-MB EUT.....: : Dark Sky Bollard Pro Applicant.....:: : ARTIKA FOR LIVING INC. Lachine Canada Telephone.....:: : / Fax....:: : / YUYAO YISIBEIER ELECTRICAL APPLIANCE Manufacturer.....:: CO..LTD Address.....: No.66-2 West Of ZhenXing Road, LiangHui Economic Development Zone, YuYao City, Zhe Jiang Province, China Telephone.....:: : / Fax.....:: : / Address.....: No.66-2 West Of ZhenXing Road, LiangHui Economic Development Zone, YuYao City, ZheJiang Province ,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	Issue Date	Revisions	Revised By
000	April 20, 2021	Initial Issue	Gavin Liang

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	7
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	13
4. TEST SETUP PHOTOGRAPHS OF EUT	17
5. EXTERIOR PHOTOGRAPHS OF THE EUT	17
6 INTERIOR PHOTOGRAPHS OF THE FUT	17

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			
NI/A to a seller to to the Alexander		1				

N/A is an abbreviation for Not Applicable.

Test mode:		
Mode	Lighting	Record
***Note: All test m	nodes were tested, but we only r	ecorded the worst case in this
report.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Dark Sky Bollard Pro

Trade Mark : Artika

Test Model : 36BOL-DS-MB

: 36BOL-DS-XXXXXX("X" can be A to Z and/or 0 Additional Model

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:100-240V,50/60Hz, 0.056A

Output:36V,300mA

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

: NVLAP Accreditation Code is 600167-0. EMC Lab.

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	\pm 3.8 dB \pm 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

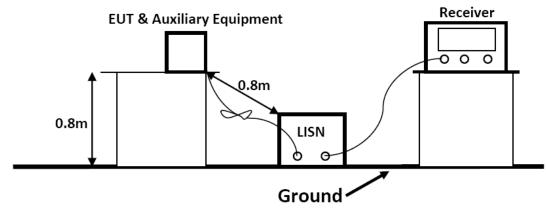
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

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	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	^c y	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.

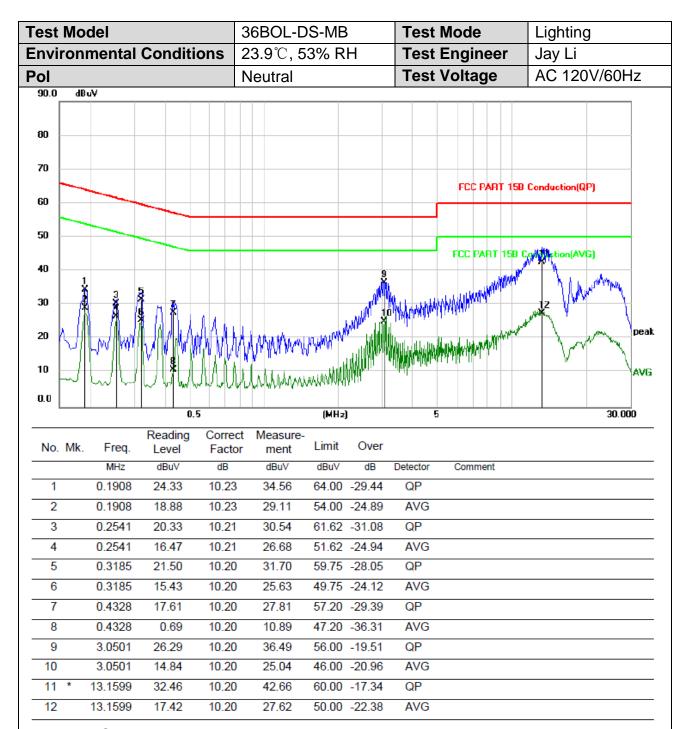
The frequency range from 150kHz to 30MHz is investigated

3.1.7.Test Results

PASS.

The test result please refer to the next page.

Test	Model		3	6BOL-D	S-MB		Test	Mode	Lighting
Envi	vironmental Conditions 23.9°C, 53% RH Test Engineer Jay Li		Jay Li						
Pol			L	ine			Test	Voltage	AC 120V/60Hz
90.0	O dBuV								
80									
70									
60								FCC PART 15	3 Conduction(QP)
50								FCC PART 15B	(Avg)
40	1	3 5 7	2					PCC PART 158	ponducing [AVG]
30		* * .	A J ohann	LAMBOL On L	Logloskollos	hakalaatak	a kalakakakaka	APPROPRIATION OF THE STATE OF T	12
30	I IN M	MJWW	Wilder Control		y '* Litera	l Lada	1	June March	peak
20	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(W						MANAGE PARTY AND A STATE OF THE	
10			<u> </u>			Hillian	baltallation of the c	11, 11, 1	AVG
		V [A,] M	MACANA	ANNER SE.					
0.0			0.5		(MHz)		!	5	30.000
		Reading	Correct	Measure-	11. 9				
No.	Mk. Freq		Factor	ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
	0.2540		10.21	38.47 35.09	61.63		QP AVG		
3			10.21	40.47	51.63 59.76		QP		
4			10.20	34.68	49.76		AVG		
- 5			10.20	39.10	58.18		QP		
6			10.20	35.37	48.18		AVG		
7			10.20	39.25	57.19		QP		
			10.20	18.02	47.19		AVG		
8		1 7.82							
8					56.00	-18.81	QP		
	0.5732	26.99	10.20	37.19 29.32	56.00 46.00		QP AVG		
9	0.5732 0.5732	2 26.99 2 19.12	10.20	37.19		-16.68			



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

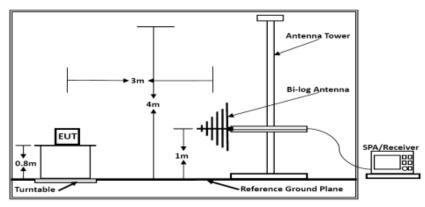
3.2. Radiated emission Measurement

3.2.1. Test Equipment

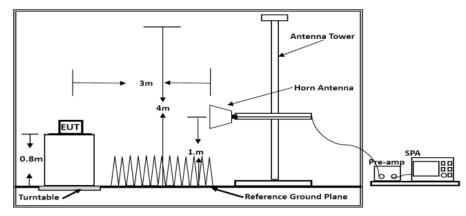
The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	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

3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY	DISTANCE	FIELD STRE	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 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.

6

223.5373

11.94

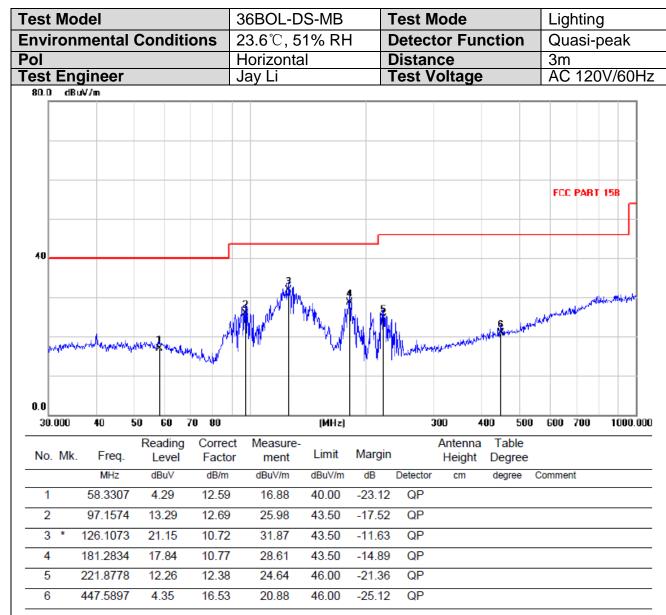
9.74

21.68

46.00

QP

-24.32



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

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-----