

Page 1 of 15 FCC ID: 2AUHG-8BOL-C7LV Report No.: LCSA030623214EA

FCC Part 15, Subpart B, Class B ARTIKA FOR LIVING INC

Outdoor light

Test Model: 8BOL-C7LV-HD2BL

Additional Model No.: 8BOL-C7LV-XXXXXX("XXXXXX" 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

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 : March 21, 2023

Number of tested samples : 2

Sample No. : A030623214 Serial number : Prototype

Date of Test : March 21, 2023 ~ March 27, 2023

Date of Report : March 28, 2023



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Report No.: LCSA030623214EA

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

Report Reference No.: LCSA030623214EA

Date Of Issue: : March 28, 2023

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

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.....: : Outdoor light

Test Model: 8BOL-C7LV-HD2BL

Trade Mark: : ARTIKA

Ratings: Input: DC 12V,3W

Result: : Positive

Compiled by:

Supervised by:

Approved by:

Jack Liu/ Administrator

Cary Luo/ Technique principal

Gavin Liang/ Manager





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FCC -- TEST REPORT

Test Report No.: LCSA030623214EA March 28, 2023

Date of issue

Test Model : 8BOL-C7LV-HD2BL

EUT : Outdoor light

Applicant : ARTIKA FOR LIVING INC

Address : 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5

Telephone : /
Fax : : /

Manufacturer : Zhejiang HOWELL illuminating technology co.,ltd

Address : No.1228 tanjialing west road yuyao Zhejiang china

Telephone : /
Fax : : /

Factory : Zhejiang HOWELL illuminating technology co.,ltd

Address : No.1228 tanjialing west road yuyao Zhejiang china

Telephone : /
Factory : Zhejiang HOWELL illuminating technology co.,ltd

Address : No.1228 tanjialing west road yuyao Zhejiang 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.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	March 28, 2023	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.

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	N/A		
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS		

Test mode:		
Mode 1	Lighting	Record





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2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Outdoor light

Trade Mark : ARTIKA

Test Model : 8BOL-C7LV-HD2BL

Additional Model No.: 8BOL-C7LV-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 : Input: DC 12V, 3W

Highest internal frequency (Fx)

: Fx ≤ 108 MHz(Manufacturer declared)

2.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate

2.3 External I/O Cable

I/O Port Description	Quantity	Cable
a Uk	uh	ID



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2.4. 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.

FCC Test Firm Registration Number: 254912.

2.5. 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.

2.6. 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%.



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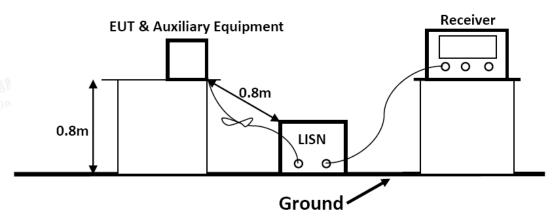
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

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	Farad	EZ	/	N/A	N/A
2	EMI Test Receiver	R&S	ESR3	102312	2023-02-17	2024-02-16
3	Artificial Mains	R&S	ENV216	101288	2022-06-16	2023-06-15
4 🕠	Pulse Limiter	R&S	ESH3-Z2	102750-NB	2022-08-17	2023-08-16
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2022-11-15	2023-11-14

3.1.2.Block Diagram of Test Setup



3.1.3.Test Standard

Power Line Conducted Emission Limits (Class B)

Frequency			Limit (dB _µ V)		
(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	٠	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.



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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.

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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

Not applicable.



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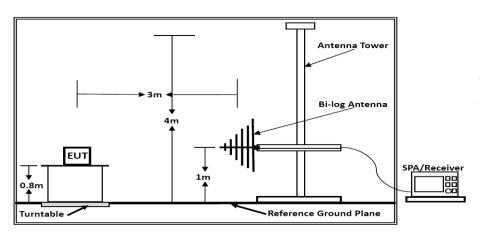
3.2. Radiated emission Measurement

3.2.1. Test Equipment

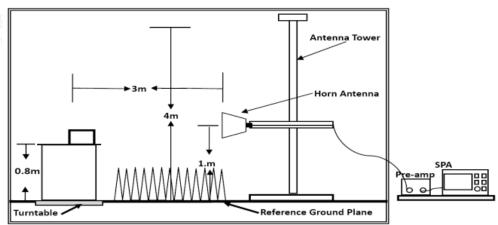
The following test equipments are used during the radiated emission measurement:

Item	Test 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	9163-470	2021-09-12	2024-09-11
3	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
4	EMI Test Receiver	R&S	ESR3	102311	2022-08-17	2023-08-16
5	Broadband Preamplifier	MST ICSTES	BP-01M18G	P190501	2022-06-16	2023-06-15
6	EMI Test Software	Farad	EZ	1	N/A	N/A
7	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2022-11-14	2023-11-13
8	EMI Test Receiver	R&S	ESPI	101940	2022-08-17	2023-08-16

3.2.2. Block Diagram of Test Setup



Below 1GHz



Above 1GHz



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3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

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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	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 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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							45	L.S.						112:						
Test Model							8BOL-C7LV-HD2B L					Test Mode					Lighting			
Env	ironme	ntal (Con	ditio	23	23.8℃, 52.3% RH					Detector Function					Quasi-peak				
Pol					V	Vertical				Distance					3m					
Test	Engin	eer			N	Nick Peng					Test Voltage					DC 12V				
70.0	dBuV/π	1							_										1	
60													CC Part15	DE 61	B 00	40001				
50												- F1	argin -6 dE	HE-Llass	B_30	- I UUUN	HZ			
40					_	#														
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0																				
-10																				
-20					+															
△ 3 3 -30	0.000		6	0.00				(MHz)				30	00.00					100	0.00a	
700	No.		que MHz	_		lead dBu	ding uV)	Factor (dB/m)		Le\ Bu'			Lin (dBu			rgin IB)	De	tector		
	1	46	6.50	30		29.	06	-16.94	ŕ	12.	12	2	40.	00	-27	7.88	(QΡ		
	2	66.2661		-	32.02		-19.24	12.78		_	40.00		-27.22		QΡ					
	3	144.3347		-	43.39		-20.43	22.96		43.		_	-20.54		QP					
	4	191.0738		-	38.27		-18.24	20.03			_	43.50		-23.47		QP	1			
	5	-	9.40		+	37.74		-14.76	—		22.98		_	46.00		3.02			1	
	6	68	4.74	53		29.	40	-11.01	<i>'</i>	18.	39)	46.	00	-27	7.61	(QΡ	╛	











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Test Model							8BOL-C7LV-HD2B				Test Mode						Lighting					
Envi	ironme	ntal	Con	diti	on	S	23	3.8℃	, 52.3	% RF		De	ete	ct	or Fu	nctio	n	Quasi-peak				
Pol		ŀ						Horizontal				Distance					3m					
Test	Engin	eer					Ν	ick P	eng			Te	est	V	oltage			DC 12V				
70.0	dBuV/m												_	二								
60														FC	C Part15	RE-Class	8 B_30	-1 000k	lHz		_	
50						١.							+	Ma	rgin -6-dE						+	
40 30						۲			3	*					5							
20				2							كمم	A.					L survey styre	6		سلاير	المرابعة المرا	peak
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0													+	+								
-10													\dashv									
-20													+	+								
-30 -30	.000		6	0.00						(MHz)				300	0.00						100	0.000
Frequency Re				Do	200	lina	Fac	tor		۵۱	امر		Lir	nit	Ma	rain	Π			1		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.4238	31.46	-18.40	13.06	40.00	-26.94	QP
2	66.4989	37.19	-19.25	17.94	40.00	-22.06	QP
3	145.8611	58.21	-20.27	37.94	43.50	-5.56	QP
4	189.7385	51.22	-17.36	33.86	43.50	-9.64	QP
5	369.4047	42.75	-14.76	27.99	46.00	-18.01	QP
6	601.4265	30.45	-10.47	19.98	46.00	-26.02	QP

Note:1). Pre-Scan all mode, Thus record worse case mode result in this report.

2) Margin= Reading level + Correct factor - Limit Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor



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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.





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