EMC TEST REPORT

FCC ID: 2AUHG-FM-AO5C

Report No. : SSP24010185-1E

Applicant: ARTIKA FOR LIVING INC

Product Name : Aston Led flush mount light

Model Name : FM-AO5C-HD2BL

Test Standard : FCC Part 15 Subpart B

Date of Issue : 2024-02-27



Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

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Test Report Basic Information

ARTIKA FOR LIVING INC Applicant.....

1756 50th avenue, Lachine, Quebec, H8T 2V5 Canada Address of Applicant....:

Foshan Topday Optoelectronics Technology Co., Ltd. Manufacturer....:

Huansheng Road, Guicheng Eastern ndustrial Zone B, Sanshan Nanhai

Address of Manufacturer.....: District Foshan China

Product Name..... Aston Led flush mount light

Brand Name..... artika

Main Model..... FM-AO5C-HD2BL

Series Models..... CML15-837, FM-AO5C-XXXXXX

FCC Part 15 Subpart B

Test Standard...... ANSI C63.4-2014

Date of Test: 2024-01-30 to 2024-01-31

Test Result..... PASS

(Choco Qiu)

(Lieber Ouyang)

Authorized Signatory..... (Lahm Peng)

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.

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Revision	Issue Date	Description	Revised By
V1.0	2024-02-27	Initial Release	Lahm Peng

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1. General Information

1.1 Product Information

Product Name:	Aston Led flush mount light					
Trade Name:	artika					
Main Model:	FM-AO5C-HD2BL					
Series Models:	CML15-837, FM-AO5C-XXXXXX					
Class of Equipment:	☐ Class A ☐ Class B					
Highest Internal Frequency:	<108MHz					
Rated Voltage:	Input: AC 120V/60Hz/0.28A, Output: 120~135V/0.16A, 21.6W Max					
Note 1: The test data is gather	ed from a production sample, provided by the manufacturer.					
Note 2: The color of appearance	ce and model name of series models listed are different from the main model,					
but the circuit and the electronic construction are the same, declared by the manufacturer, The suffix						
"XXXXXX" can be A to Z and/o	r 0 to 9 and/or blank denotes commercial code.					

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1.2 Test Setup Information

List of Test Mo	List of Test Modes								
Test Mode	De	escription		Remark					
TM1	1	Working		-					
TM2		-		-					
TM3		-		-					
TM4		-		-					
List and Detai	ls of Auxiliary	y Cable							
Descrij	ption	Length (cm)		Shielded/Unshielded	With/Without Ferrite				
-		-		-	-				
-		-							
-		-		-	-				
List and Detai	ls of Auxiliary	y Equipment							
Descrij	ption	Manufacture	r	Model	Serial Number				
-				-	-				
-		-		-	-				
The equipmen	nt under test	(EUT) was configure	d to mea	sure its highest possible em	nission and immunity level.				

The equipment under test (EUT) was configured to measure its highest possible emission and immunity level. The test modes were adapted according to the operation manual for use.

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1.3 Compliance Standards

Compliance Standards					
ECC Dout 15 Culous out D	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,				
FCC Part 15 Subpart B	Unintentional Radiators				
All measurements contained in	this report were conducted with all above standards				
According to standards for te	est methodology				
ECC Dowt 15 Cubnout D	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,				
FCC Part 15 Subpart B	Unintentional Radiators				
	American National Standard for Methods of Measurement of Radio-Noise Emissions				
ANSI C63.4-2014	from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40				
GHz.					
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which					
result is lowering the emission, should be checked to ensure compliance has been maintained.					

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1.4 Test Facilities

Shenzhen CCUT Quality Technology Co., Ltd.							
1F, Building 35, Changxing Technology Industrial Park, Yutang Street,							
Guangming District, Shenzhen, Guangdong, China							
L18863							
6893.01							
583813							
CN0164							

All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.

1.5 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Disturbance	9kHz~30MHz	±1.64 dB
Radiated Disturbance	$30 \mathrm{MHz} \sim 1 \mathrm{GHz}$	±3.32 dB
Radiated Disturbance	1GHz ∼ 18GHz	±3.50 dB

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1.6 List of Test and Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date							
		Conducted Emissi	ons									
AMN	AMN ROHDE&SCHWARZ ENV216 101097 2023-10-21 2024-10-20											
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2023-07-31	2024-07-30							
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A							
		Radiated Emission	ons									
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2023-07-31	2024-07-30							
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2023-07-31	2024-07-30							
Amplifier	SCHWARZBECK	BBV 9743B	00251	2023-07-31	2024-07-30							
Amplifier	HUABO	YXL0518-2.5-45		2023-07-31	2024-07-30							
Loop Antenna	DAZE	ZN30900C	21104	2023-08-07	2024-08-06							
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2023-08-07	2024-08-06							
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2023-08-07	2024-08-06							
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A							

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FCC Rule	FCC Rule Description of Test Item				
FCC Part 15.107	Conducted Emissions	Passed			
FCC Part 15.109	Radiated Emissions	Passed			

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Passed: The EUT complies with the essential requirements in the standard

Failed: The EUT does not comply with the essential requirements in the standard

N/A: Not applicable

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3. Conducted Emissions

3.1 Standard and Limit

According to the rule FCC Part 15.107, Conducted limit, the limit for a class A and class B device as below:

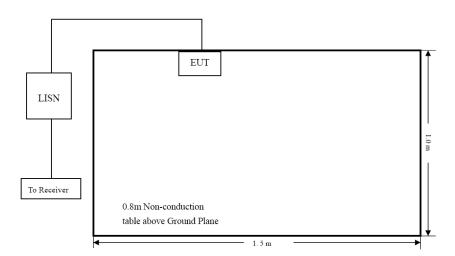
Frequency of Emission	Class A	(dBuV)	Class B (dBuV)			
(MHz)	Quasi-peak	Average	Quasi-peak	Average		
0.15-0.5	79	66	66 to 56	56 to 46		
0.5-5	73	60	56	46		
5-30	73	60	60	50		

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Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz

3.2 Test Procedure

Test is conducting under the description of ANSI C63.4-2014 American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.



Test Setup Block Diagram

3.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.107 standard limit for a Class B device, and with the worst case as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

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Note 2: The lower limit applies at the band edges

Test	Plot	s and Data	a of Condi	ucted Emis	sions						
Teste	ed M	lodel:		FM-AO5C	M-AO5C-HD2BL						
Teste	ed M	lode:		TM1	M1						
		AC 120V/	60Hz								
		er Line:		Neutral							
-				Neutrai							
Rem											
90.0	dl	BuV									
80											
70											
60	<u> </u>									FCC Part15 CE-Class B_QP	
50	T.	Muma								FCC Part15 CE-Class B_AVe	
40 \$,		harman 3								
20	M	Mandaga		Who who gradu		5					
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10							Bollet who were	and annual of		AVG	
-10											
	150		0	.500		(MHz)		5.0	00	30.000	
No).	Frequency (MHz)	Readin (dBuV		Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark	
1	*	0.1500	49.53	9.51	59.04	66.00	-6.96	QP	Р		
2	\top	0.1500	29.50	9.51	39.01	56.00	-16.99	AVG	Р		
3		0.4560	32.46		42.41	56.77	-14.36	QP	Р		
4		0.4560	15.01		24.96	46.77	-21.81	AVG	Р		
5		1.4460	21.48		31.51	56.00	-24.49	QP	Р		
6		1.4460	9.79	10.03	19.82	46.00	-26.18	AVG	Р		
7		9.7215	6.37	10.25	16.62	60.00	-43.38	QP	Р		
8	_	9.7215	-5.50		4.75	50.00	-45.25	AVG	P		
9	\perp	14.1135	10.18		20.23	60.00	-39.77	QP	Р		
10	_	14.1135	-1.09		8.96	50.00	-41.04	AVG	Р		
11	_	22.1595	25.28		35.69	60.00	-24.31	QP	Р		
12		22.1595	10.37	10.41	20.78	50.00	-29.22	AVG	Р		

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No. Frequency (MHz)	Test Pl	ots and Data	of Conduct	ted Emissi	ons						
Test Voltage: AC 120V/60Hz Test Power Line: Live Remark: 90.0	Tested	Model: FM-AO5C-HD2BL									
Test Power Line: Live Remark: 90.0 dBuV 70 60 70 10 0.150 0.500	Tested	Mode:	TM1								
Test Power Line: Live Remark: 90.0 dBuV 70 60 70 10 0.150 0.500	Test Vo	oltage:	AC 1	20V/60Hz	<u> </u>						
Remark: 90.0 dBw 90 70 60 10 10 10 1 0.150 2.0 150 2.0 150 3.0 27 5.0 38 9.27 5.9 80 66.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 7.0 150 7.0 150 7.0 150 7.0 150 8.0 150 8.0 17.72 8.0 18.0 18.0 18.0 18.0 18.0 18.0 18.0 1				,							
80			Live								
80 70 60 60 70 60 70 70 60 70 70 70 70 70 70 70 70 70 70 70 70 70											
70 60 60 70 70 60 70 70 60 70 70 70 70 70 70 70 70 70 70 70 70 70	90.0	dBuV									
FCC Part15 CE-Class B, QP FC Part15 CE-Class P, QP FC Part	80 _										
No. Frequency Reading (dBuV) (dB)	70										
No. Frequency Reading (dBuV) (dB)	_ }									FCC Part15 CE-Class B QP	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	M	3									$\overline{}$
30 20 10 0 10 0 10 0 10 0 10 0 10 0 10 0	50	my wall								FCC Part15 CE-Class B_AVe	-
30 20 10 0 10 0 10 0 10 0 10 0 10 0 10 0	40 \$	771	JUMPH &								
20 10 0 10 0 10 0 10 0 10 0 10 0 10 0 1	1	~~~		What I have						9	111 X
No. Frequency (dBuV) (dB) (dB) (dB) (dB) (dB) (dB) (dB) (dB	30		my my 5	100	March Harton March	talisetan palayan handan da				<u> </u>	12
No. Frequency (MHz) (dBuV) (dB) (dBuV) (dBuV	20		1	Water Transfer Contraction	************	menoral The				/ / / / / / / / / / / / / / / / / / /	₩.
No. Frequency (MHz) Reading (dBuV) Factor (dBuV) Level (dBuV) Limit (dBuV) Margin (dBuV) Detector (dB) P/F Remark 1 * 0.1500 50.53 9.27 59.80 66.00 -6.20 QP P 2 0.1500 29.01 9.27 38.28 56.00 -17.72 AVG P 3 0.2444 42.11 9.47 51.58 61.95 -10.37 QP P 4 0.2444 22.96 9.47 32.43 51.95 -19.52 AVG P 5 0.5190 32.14 9.94 42.08 56.00 -13.92 QP P 6 0.5190 13.58 9.94 23.52 46.00 -22.48 AVG P 7 1.3245 21.43 10.03 31.46 56.00 -24.54 QP P 8 1.3245 10.11 10.03 20.14 46.00 -25.86 AVG P 9 19.1984 22.75 10.49 33.24 60.00 -2	10					- Thomas	Managare 1	Mary did september per	hande	A STATE OF THE PARTY OF THE PAR	Ŭ\ peak
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No. Frequency (MHz) Reading (dBuV) Factor (dBuV) Level (dBuV) Limit (dBuV) Margin (dBuV) Detector (dBuV) P/F Remark 1 * 0.1500 50.53 9.27 59.80 66.00 -6.20 QP P 2 0.1500 29.01 9.27 38.28 56.00 -17.72 AVG P 3 0.2444 42.11 9.47 51.58 61.95 -10.37 QP P 4 0.2444 22.96 9.47 32.43 51.95 -19.52 AVG P 5 0.5190 32.14 9.94 42.08 56.00 -13.92 QP P 6 0.5190 13.58 9.94 23.52 46.00 -22.48 AVG P 7 1.3245 21.43 10.03 31.46 56.00 -24.54 QP P 8 1.3245 10.11 10.03 20.14 46.00 -25.86 AVG P 9 19.1984 22.75 10.49 33.24 60.00											
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3 0.2444 42.11 9.47 51.58 61.95 -10.37 QP P 4 0.2444 22.96 9.47 32.43 51.95 -19.52 AVG P 5 0.5190 32.14 9.94 42.08 56.00 -13.92 QP P 6 0.5190 13.58 9.94 23.52 46.00 -22.48 AVG P 7 1.3245 21.43 10.03 31.46 56.00 -24.54 QP P 8 1.3245 10.11 10.03 20.14 46.00 -25.86 AVG P 9 19.1984 22.75 10.49 33.24 60.00 -26.76 QP P 10 19.1984 6.03 10.49 16.52 50.00 -33.48 AVG P 11 22.8930 23.63 10.39 34.02 60.00 -25.98 QP P		-							\vdash		
4 0.2444 22.96 9.47 32.43 51.95 -19.52 AVG P 5 0.5190 32.14 9.94 42.08 56.00 -13.92 QP P 6 0.5190 13.58 9.94 23.52 46.00 -22.48 AVG P 7 1.3245 21.43 10.03 31.46 56.00 -24.54 QP P 8 1.3245 10.11 10.03 20.14 46.00 -25.86 AVG P 9 19.1984 22.75 10.49 33.24 60.00 -26.76 QP P 10 19.1984 6.03 10.49 16.52 50.00 -33.48 AVG P 11 22.8930 23.63 10.39 34.02 60.00 -25.98 QP P		-				-			·		
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9 19.1984 22.75 10.49 33.24 60.00 -26.76 QP P 10 19.1984 6.03 10.49 16.52 50.00 -33.48 AVG P 11 22.8930 23.63 10.39 34.02 60.00 -25.98 QP P											
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11 22.8930 23.63 10.39 34.02 60.00 -25.98 QP P											
			11.12						Р		

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4. Radiated Disturbance

4.1 Standard and Limit

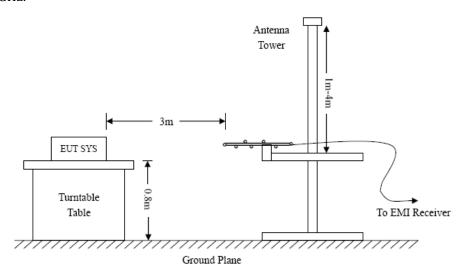
According to the rule FCC Part 15.109, Radiated emission limit for a class A and class B device as below:

Eraquancy of Emission (MHz)	Class A (3m)	Class B (3m)							
Frequency of Emission (MHz)	Quasi-peak (dBuV/m)	Quasi-peak (dBuV/m)							
30-88	50	40 43.5							
88-216	54.0								
216-960	57.0	46							
Above 960	60	54							
Note: The more stringent limit applies at transition frequencies.									

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4.2 Test Procedure

Test is conducting under the description of ANSI C63.4-2014 American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.



Test Setup Block Diagram

4.3 Test Data and Results

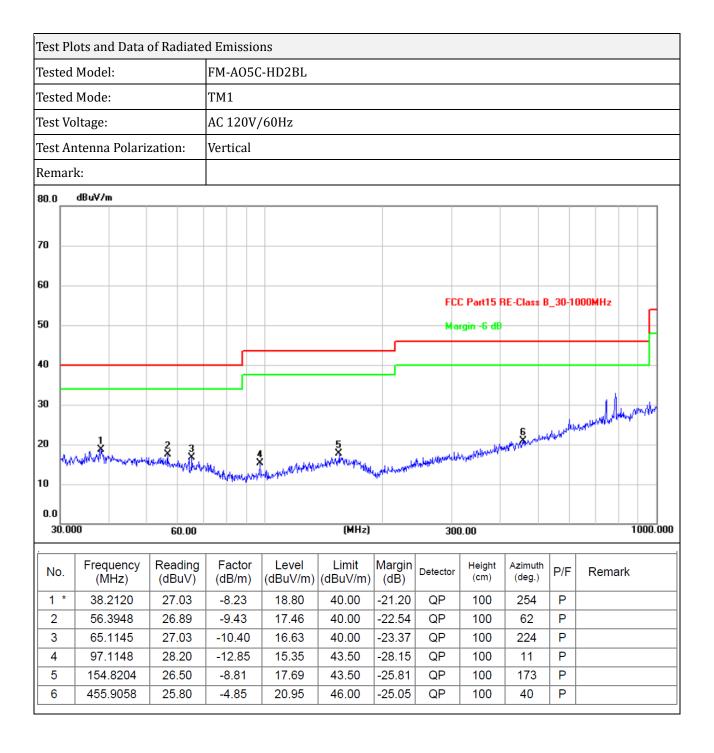
Based on all tested data, the EUT complied with the FCC Part 15.109 standard limit for a Class B device, and with the worst case as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

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Test	Plo	ots and Data	of Radiate	d Emissio	ns							
Tested Model:				FM-A05C-HD2BL								
Tested Mode:				TM1								
Test Voltage:				AC 120V/60Hz								
Test Antenna Polarization:			Horizontal									
Remark:												
80.0		dBuV/m										
70												
"												
60	L											
								FC	C Part15	RE-Class E	3_30-1	000MHz
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0.0												
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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		50.4089	26.06	-8.74	17.32	40.00	-22.68	QP	100	163	Р	
2		65.5727	26.79	-10.44	16.35	40.00	-23.65	QP	100	349	Р	
3		153.2004	26.62	-8.75	17.87	43.50	-25.63	QP	100	13	P	
4		378.5843 530.1014	26.39 27.46	-6.73	19.66	46.00	-26.34	QP	100	255	P P	
5 6	*	744.8661	31.61	-3.13 0.73	24.33 32.34	46.00 46.00	-21.67 -13.66	QP QP	100	244	P	
		1 000.77	01.01	0.73	02.04	+0.00	10.00	QI	100			

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