EMC TEST REPORT

FCC ID: 2AUHG-FMAH5C

Report No. : SSP24040050-1E

Applicant: ARTIKA FOR LIVING INC

Product Name: Arthur LED Flush mount 5CCT

Model Name : FM-AH5C-HD2BL

Test Standard : FCC Part 15 Subpart B

Date of Issue : 2024-05-21



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 Address of Applicant....:

ZHONGSHAN C5 LIGHTING CO., LTD Manufacturer....:

1# Henglong Road, Tongyi Industrial Area, Cao San, Guzhen, Zhongshan,

Address of Manufacturer.....: Guangdong, China. Z. P 528421

Product Name..... Arthur LED Flush mount 5CCT

Brand Name.....

Main Model..... FM-AH5C-HD2BL

FM-AH5C-XXXXXX Series Models.....

FCC Part 15 Subpart B

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

Date of Test 2024-04-11 to 2024-04-12

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	2024-05-21	Initial Release	Lahm Peng

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1. General Information

1.1 Product Information

Product Name:	Arthur LED Flush mount 5CCT
Trade Name:	-
Main Model:	FM-AH5C-HD2BL
Series Models:	FM-AH5C-XXXXXX
Class of Equipment:	☐ Class A ☐ Class B
Highest Internal Frequency:	<108MHz
Rated Voltage:	Input: AC 120V/60Hz 23W
Note 1: The test data is gather	ed from a production sample, provided by the manufacturer.
Note 2: The color of appearan	ce and model name of series models listed are different from the main model,
but the circuit and the electron	nic 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	I	Running		-				
TM2		-		-				
TM3		-		-				
TM4		-		-				
List and Detai	ls of Auxiliary	7 Cable						
Descrij	ption	Length (cm)		Shielded/Unshielded	With/Without Ferrite			
-		-		-	-			
-					-			
-		-		-		-	-	
List and Detai	ls of Auxiliary	Z Equipment						
Descrij	Description Manufacturer			Model	Serial Number			
-		-		-		-	-	
-		-		-	-			
-		-		-	-			
The equipmen	nt under test i	(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 Don't 15 Cubnowt D	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,				
FCC Part 15 Subpart B	Unintentional Radiators				
All measurements contained i	n this report were conducted with all above standards				
According to standards for	test methodology				
ECC Dout 15 Culmont 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	n, 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	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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2. Summary of Test Results

FCC Rule	Description of Test Item	Result	
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:

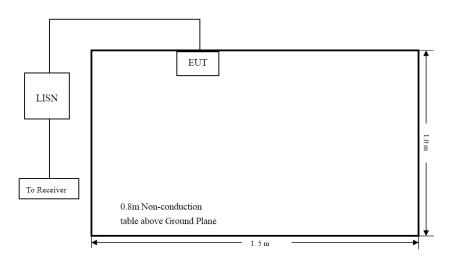
Frequency of Emission	Class A	(dBuV)	Class B (dBuV)			
(MHz)	Quasi-peak	Average	Quasi-peak	Average		
0.15-0.5	79	66	66 to 56	56 to 46		
0.5-5	73	60	56	46		
5-30	73	60	60	50		

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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

24.8775

24.11

10.44

34.55

12 *

Tost Dlot	s and Data o	of Conduct	tod Emicci	onc								
		1										
Tested M	lodel:	FM-A	M-AH5C-HD2BL									
Tested M	lode:	TM1	<i>4</i> 1									
Test Volt	age:	AC 1	C 120V/60Hz									
Test Pow	ver Line:	Neut	eutral									
Remark:												
90.0	dBuV	, 										
80 -								+	+			
70								\perp				
60									FCC P	art15 CE-Class E	3_QP	
									F00 F	ME OF CLASS		
50	3 5							+	FUL P	art15 CE-Class E	s_Ave	
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			Marine Marine	- Househouse - C	American American	Madelph Mark	Mark Mary Ray Radio	intelleration	413° - 1 ₀ + 449° -	Market Market	, [,W] '\\	
10			And the second second	- Househoven	Acres de	Washing Wilder	Marile Marie Landin	Lakelynskield	141 ₂ 2-1 ₀ -140 ₂ -	Mary Mary Mary Mary Mary Mary Mary Mary	, [,W] '\\	
10		0.5	00	- Harrison	(MHz)	Marine Marine	5.00	W. wales	Mile do mo	Manustrang Med	, [,W] '\\	AVG
10 0 -10 0.150	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)		Margin (dB)	5.00	W. wales	Re	mark		AVG
10 0 -10 0.150	Frequency	Reading	Factor	Level	(MHz)	Margin	5.00	00	Re	mark		AVG
10 0 -10 0.150	Frequency (MHz) 0.1565	Reading (dBuV)	Factor (dB)	Level (dBuV)	(MHz) Limit (dBuV)	Margin (dB)	5.00	00 P/F	Re	mark		AVG
10 0 -10 0.150 No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV) 48.80	(MHz) Limit (dBuV) 65.65	Margin (dB)	5.00 Detector QP AVG)0 P/F	Re	mark		AVG
10 0 -10 0.150 No.	Frequency (MHz) 0.1565 0.1565	Reading (dBuV) 39.41 19.65	Factor (dB) 9.39 9.39	Level (dBuV) 48.80 29.04	(MHz) Limit (dBuV) 65.65 55.65	Margin (dB) -16.85 -26.61	5.00 Detector QP AVG	P/F P	Re	mark		AVG
10 0 -10 0.150 No.	Frequency (MHz) 0.1565 0.1565 0.2085	Reading (dBuV) 39.41 19.65 36.07	Factor (dB) 9.39 9.39 9.61	Level (dBuV) 48.80 29.04 45.68	(MHz) Limit (dBuV) 65.65 55.65 63.26	Margin (dB) -16.85 -26.61 -17.58	5.00 Detector QP AVG QP	P/F P P	Re	mark		AVG
10 0 -10 0.150 No. 1 2 3 4	Frequency (MHz) 0.1565 0.1565 0.2085	Reading (dBuV) 39.41 19.65 36.07 16.86	Factor (dB) 9.39 9.39 9.61 9.61	Level (dBuV) 48.80 29.04 45.68 26.47	Limit (dBuV) 65.65 55.65 63.26	Margin (dB) -16.85 -26.61 -17.58 -26.79	5.00 Detector QP AVG QP AVG	P/F P P	Re	mark		AVG
10 0 -10 0.150 No. 1 2 3 4 5	Frequency (MHz) 0.1565 0.1565 0.2085 0.2085 0.2895	Reading (dBuV) 39.41 19.65 36.07 16.86 33.13	Factor (dB) 9.39 9.39 9.61 9.61 9.69	Level (dBuV) 48.80 29.04 45.68 26.47 42.82	Limit (dBuV) 65.65 55.65 63.26 53.26 60.54	Margin (dB) -16.85 -26.61 -17.58 -26.79 -17.72	5.00 Detector QP AVG QP AVG QP	P/F P P P	Re	mark		AVG
10 0 -10 0.150 No. 1 2 3 4 5 6	Frequency (MHz) 0.1565 0.1565 0.2085 0.2085 0.2895	Reading (dBuV) 39.41 19.65 36.07 16.86 33.13 14.80	Factor (dB) 9.39 9.39 9.61 9.61 9.69	Level (dBuV) 48.80 29.04 45.68 26.47 42.82 24.49	(MHz) Limit (dBuV) 65.65 55.65 63.26 60.54 50.54	Margin (dB) -16.85 -26.61 -17.58 -26.79 -17.72 -26.05	5.00 Detector QP AVG QP AVG QP AVG	P/F P P P	Re	mark		AVG
10 0 -10 0.150 No. 1 2 3 4 5 6 7	Frequency (MHz) 0.1565 0.1565 0.2085 0.2085 0.2895 0.2895 0.4650	Reading (dBuV) 39.41 19.65 36.07 16.86 33.13 14.80 25.47	Factor (dB) 9.39 9.39 9.61 9.61 9.69 9.69	Level (dBuV) 48.80 29.04 45.68 26.47 42.82 24.49 35.42	Limit (dBuV) 65.65 55.65 63.26 53.26 60.54 50.54 56.60	Margin (dB) -16.85 -26.61 -17.58 -26.79 -17.72 -26.05 -21.18	5.00 Detector QP AVG QP AVG QP AVG	P/F P P P P	Re	mark		AVG
No. 1 2 3 4 5 6 7 8	Frequency (MHz) 0.1565 0.1565 0.2085 0.2085 0.2895 0.2895 0.4650	Reading (dBuV) 39.41 19.65 36.07 16.86 33.13 14.80 25.47 10.87	Factor (dB) 9.39 9.39 9.61 9.61 9.69 9.95	Level (dBuV) 48.80 29.04 45.68 26.47 42.82 24.49 35.42 20.82	Limit (dBuV) 65.65 55.65 63.26 53.26 60.54 50.54 56.60 46.60	Margin (dB) -16.85 -26.61 -17.58 -26.79 -17.72 -26.05 -21.18 -25.78	Detector QP AVG QP AVG QP AVG QP AVG	P/F P P P P	Re	mark		AVG

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50.00

-15.45

Р

AVG

Test P	lots and Data c	of Conduct	ed Emissi	ons						
Testec	l Model:	FM-A	M-AH5C-HD2BL							
Tested	l Mode:	TM1								
Test V	oltage:	AC 12	C 120V/60Hz							
Test P	ower Line:	Live	ive							
Remai	rk:									
90.0	dBuV									
80										
70										
60									FCC Part15 CE-Class B_QP	
50									FCC Part15 CE-Class B_AVe	
30	3.5								11	
40		Vinney							<u> </u>	
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10					and the second	Warney Barrens	hose who ship to	فهدمهما	AVG	
0							and the same	· verreen		
-10										
0.1	50	0.50	0		(MHz)		5.00	00	30.000	
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark	
1	0.1680	38.01	9.09	47.10	65.06	-17.96	QP	Р		
2	0.1680	18.51	9.09	27.60	55.06	-27.46	AVG	Р		
3	0.2353	35.02	9.36	44.38	62.26	-17.88	QP	Р		
4	0.2353	16.64	9.36	26.00	52.26	-26.26	AVG	Р		
5	0.3120	30.66	9.78	40.44	59.92	-19.48	QP	Р		
6	0.3120	13.87	9.78	23.65	49.92	-26.27	AVG	Р		
7	0.5190	24.02	9.94	33.96	56.00	-22.04	QP	Р		
8	0.5190	10.44	9.94	20.38	46.00	-25.62	AVG	Р		
9	1.1580	19.92	10.01	29.93	56.00	-26.07	QP	Р		
10	1.1580	9.70	10.01	19.71	46.00	-26.29	AVG	Р		
11	24.8775	30.35	10.30	40.65	60.00	-19.35	QP	Р		
12 '	24.8775	25.93	10.30	36.23	50.00	-13.77	AVG	Р		

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4.1 Standard and Limit

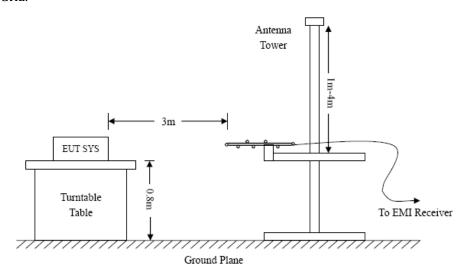
According to the rule FCC Part 15.109, Radiated emission limit for a class A and class B device as below:

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				
88-216	54.0	43.5				
216-960	57.0	46				
Above 960	60	54				
Note: The more stringent limit app	lies 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 Pl	ots and	Data	of Rad	liate	d En	issi	ons																
Гested	Model:				FM-AH5C-HD2BL																		
Tested	Mode:				TM1																		
Test Vo	oltage:				AC 120V/60Hz																		
Гest А	ntenna	Polari	zation	:	Horizontal																		
Remar	k:																						
80.0	dBuV/n	n																					
70																							
60																							
										FC	C Part15	RE-Class B	_30-1	000MHz									
50										м	argin -6 dB				+								
40									+						\top								
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30.	000		6	0.00				(MHz)		30	0.00				1000.00								
No.	Frequ (MF		Reading (dBuV)						Reading (dBuV)					ctor 3/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remar	k
1	35.4	993	27.1	-	-8	.64	18.48	40.00	-21.52	QP	100	265	P										
2	118.1	862	26.80		26.80 -10.81		-10.81 15.99		43.50	-27.51	QP	100	193	Р									
3	_	146.8877					18.38	43.50	-25.12	QP	100	1	Р										
4	374.6		26.5		_	.91	19.60	46.00	-26.40	QP	100	1	Р										
5	580.7		26.5		_	.75	24.79	46.00	-21.21	QP	100	214	Р										
6 *	782.3	453	27.0)2	1.	81	28.83	46.00	-17.17	QP	100	214	P										

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Model: Mode: tage: enna F	Polariz	zation		TM1 AC 1		C-HD2BL																		
tage: enna F	Polariz	zation	:	AC 1							FM-AH5C-HD2BL													
enna F	Polariz	zation	<u> </u>		20V		ΓM1																	
	Polariz	zation	:		AC 120V/60Hz																			
				Vertical																				
dBuV/m																								
														\vdash										
									F	CC Part15	RE-Class E	30-1	000MHz											
								+_	м	argin -6 dB				H										
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MANA JAMAN	والمرام والمعالمة	HÜNMA	albland	Much			MARKAN AND AND AND AND AND AND AND AND AND A	مهاوسال مياه	hadayiyaddi.	My Survey Photograph	Ψ													
				ris")(vq	~,/~**#/N	Mr. MANN. H.		11-10-11						\vdash										
0		60	0.00				(MHz)		30	00.00			1	000.000										
		Reading (dBuV)														Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark	
52.57	753	26.5	6	-9.	00	17.56	40.00	-22.44	QP	100	124	Р												
		26.31				16.06	43.50	-27.44	QP	100	277	Р												
								-		_														
				_				_		_		ļ.												
	Freque (MH 52.57 125.0 162.6 362.9 499.4	Frequency (MHz) 52.5753 125.0066	Frequency (MHz) (dBu 52.5753 26.5 125.0066 26.3 162.6106 27.3 362.9844 26.5 499.4247 27.2	Frequency (MHz) Reading (dBuV) 52.5753 26.56 125.0066 26.31 162.6106 27.37 362.9844 26.58 499.4247 27.28	Frequency (MHz) (dBuV)	Frequency (MHz) Reading (dBuV) (dB/m) 52.5753 26.56 -9.00 125.0066 26.31 -10.25 162.6106 27.37 -9.13 362.9844 26.58 -7.20 499.4247 27.28 -3.48	Frequency (MHz) Reading (dBuV) (dB/m) (dBuV/m) 52.5753 26.56 -9.00 17.56 125.0066 26.31 -10.25 16.06 162.6106 27.37 -9.13 18.24 362.9844 26.58 -7.20 19.38 499.4247 27.28 -3.48 23.80	Frequency (MHz) Reading (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (25.5753 26.56 -9.00 17.56 40.00 125.0066 26.31 -10.25 16.06 43.50 162.6106 27.37 -9.13 18.24 43.50 362.9844 26.58 -7.20 19.38 46.00 499.4247 27.28 -3.48 23.80 46.00	Frequency (MHz) Reading (dBuV) (dB/m) (dBuV/m) (Frequency (MHz) Reading (dBuV) (dB/m) (dBuV/m) (Frequency (MHz) Reading (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dBuV/m) (dB) Detector (cm) (dB/m) (d	Frequency (MHz) Reading (dBuV) (dB/m) (dBuV/m) (Frequency (MHz) Reading (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) Detector (cm) Azimuth (deg.) P/F (25.5753	Frequency (MHz) (dBuV) (dBuV) (dBuV/m)										

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