EMC TEST REPORT

FCC ID: 2AUHG-FM-KI5C

Report No. : SSP24040270-1E

Applicant: ARTIKA FOR LIVING INC

Product Name : Kiran 13 INCH Integrated LED Flush Mount

Model Name: FM-KR5C-HD2WD

Test Standard: FCC Part 15 Subpart B

Date of Issue : 2024-07-08



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.

EMC Test Report Page 1 of 14

Test Report Basic Information

ARTIKA FOR LIVING INC Applicant.....

1756 50th avenue, Lachine, Qc, CanadaH8T 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

Kiran 13 INCH Integrated LED Flush Mount Product Name....:

Brand Name.....

Main Model..... FM-KR5C-HD2WD

Series Models..... FM-KR5C-XXXXXX

FCC Part 15 Subpart B

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

Date of Test: 2024-05-06 to 2024-05-07

Test Result..... PASS

Reviewed By Lieber Ougang

Lahar Peng (Choco Qiu)

(Lieber Ouyang)

Authorized Signatory..... (Lahm Peng)

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Page 2 of 14 **EMC Test Report**

CONTENTS

1. General Information	5
1.1 Product Information	5
1.2 Test Setup Information.	
1.3 Compliance Standards	6
1.4 Test Facilities	6
1.5 Measurement Uncertainty	
1.6 List of Test and Measurement Instruments	7
2. Summary of Test Results	8
3. Conducted Emissions	g
3.1 Standard and Limit	9
3.2 Test Procedure	g
3.3 Test Data and Results	9
4. Radiated Disturbance	12
4.1 Standard and Limit	12
4.2 Test Procedure	12
4.3 Test Data and Results	

Report No: SSP24040270-1E

Revision	Issue Date	Description	Revised By
V1.0	2024-07-08	Initial Release	Lahm Peng

EMC Test Report Page 4 of 14

1. General Information

1.1 Product Information

Product Name:	Kiran 13 INCH Integrated LED Flush Mount
Trade Name:	-
Main Model:	FM-KR5C-HD2WD
Series Models:	FM-KR5C-XXXXXX
Class of Equipment:	☐ Class A ☐ Class B
Highest Internal Frequency:	<108MHz
Rated Voltage:	AC 120V/60Hz 25W

Report No: SSP24040270-1E

Note 1: The test data is gathered from a production sample, provided by the manufacturer.

Note 2: The color of appearance 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. "XXXXXXX" can be A to Z and/or 0 to 9 and/or blank (commercial code). Differences in power and control mode

1.2 Test Setup Information

List of Test Modes						
Test Mode	Description			Remark		
TM1	V	Vorking		AC 120V/6	0Hz	
TM2		-		-		
TM3		-		-		
TM4		-		-		
List and Detai	List and Details of Auxiliary Cable					
Descrip	ription Length (cm)			Shielded/Unshielded	With/Without Ferrite	
-		-		-	-	
-		-			-	
-		-		-	-	
List and Detai	ls of Auxiliary	/ Equipment				
Descrij	Description Manufacturer			Model Serial N		
-		-		-	-	
-		-		-	-	
-						

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.

EMC Test Report Page 5 of 14

1.3 Compliance Standards

Compliance Standards				
ECC Post 15 Colorest P	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,			
FCC Part 15 Subpart B	Unintentional Radiators			
All measurements contained in t	his report were conducted with all above standards			
According to standards for test methodology				
FCC Part 15 Subpart B	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,			
	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.				

Report No: SSP24040270-1E

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

EMC Test Report Page 6 of 14

1.6 List of Test and Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date			
Conducted Emissions								
AMN ROHDE&SCHWARZ ENV216 101097 2023-10-21 2024								
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 Emissions							
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			

Report No: SSP24040270-1E

EMC Test Report Page 7 of 14

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

Report No: SSP24040270-1E

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

EMC Test Report Page 8 of 14

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:

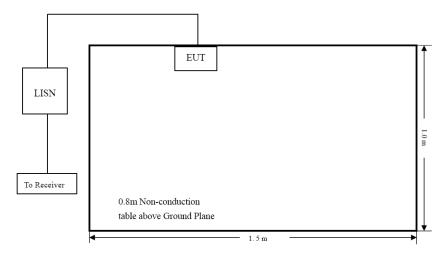
Frequency of Emission	Class A	(dBuV)	Class B (dBuV)		
(MHz)	Quasi-peak Average		Quasi-peak	Average	
0.15-0.5	79	66	66 to 56	56 to 46	
0.5-5	73	60	56	46	
5-30	73	60	60	50	

Report No: SSP24040270-1E

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

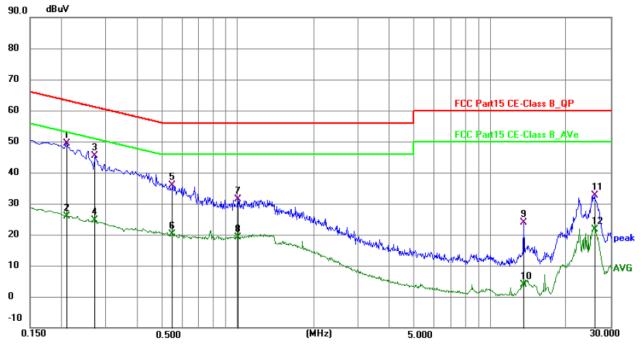
Based on all tested data, the EUT complied with the FCC Part 15.107 standard limit for a Class B device, and with the worst case as below:

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

EMC Test Report Page 9 of 14

Note 2: The lower limit applies at the band edges

Test Plots and Data o	Test Plots and Data of Conducted Emissions				
Tested Model:	FM-KR5C-HD2WD				
Tested Mode:	TM1				
Test Voltage:	AC 120V/60Hz				
Test Power Line:	Neutral				
Remark:					
oo o dRuiV					



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBu∀)	Margin (dB)	Detector	P/F	Remark
1 *	0.2085	39.72	9.61	49.33	63.26	-13.93	QP	Р	
2	0.2085	16.27	9.61	25.88	53.26	-27.38	AVG	Р	
3	0.2714	35.67	9.68	45.35	61.07	-15.72	QP	Р	
4	0.2714	14.86	9.68	24.54	51.07	-26.53	AVG	Р	
5	0.5505	26.15	9.82	35.97	56.00	-20.03	QP	Р	
6	0.5505	10.19	9.82	20.01	46.00	-25.99	AVG	Р	
7	1.0005	21.66	9.68	31.34	56.00	-24.66	QP	Р	
8	1.0005	9.36	9.68	19.04	46.00	-26.96	AVG	Р	
9	13.6005	13.90	10.07	23.97	60.00	-36.03	QP	Р	
10	13.6005	-6.11	10.07	3.96	50.00	-46.04	AVG	Р	
11	25.9890	22.25	10.39	32.64	60.00	-27.36	QP	Р	
12	25.9890	11.20	10.39	21.59	50.00	-28.41	AVG	Р	

EMC Test Report Page 10 of 14

Test Pl	ots and Data o	of Conduct	ed Emissi	ons										
	Model:		FM-KR5C-HD2WD											
Tested	Mode:	TM1												
Test Vo	ltage:	AC 12	AC 120V/60Hz											
	wer Line:		Live											
Remar		Live												
Kelliai														
90.0	dBuV													
80														
80														
70														
60									FCC Part15 CE-Class B_QP					
-						_			FCC Part15 CE-Class B_AVe					
50	*w.								FUC FAILTS CE-Class B_Ave					
40	Marano	3												
		July Mary	A MANAGEMENT	7										
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10						Market Walter			10 AVG					
0								m	market VIV					
-10														
0.15	0	0.50	00		(MHz)		5.00	00	30.000					
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark					
1 *	0.1725	40.72	9.05	49.77	64.84	-15.07	QP	Р						
2	0.1725	18.60	9.05	27.65	54.84	-27.19	AVG	Р						
3	0.3390	32.10	9.78	41.88	59.23	-17.35	QP	Р						
4	0.3390	12.70	9.78	22.48	49.23	-26.75	AVG	Р						
5	0.6045	25.30	9.95	35.25	56.00	-20.75	QP	Р						
6	0.6045	10.35	9.95	20.30	46.00	-25.70	AVG	Р						
7 8	1.1310 1.1310	21.85 9.76	10.00	31.85 19.76	56.00 46.00	-24.15 -26.24	QP AVG	P P						
9	13.6050	14.24	10.00	24.43	60.00	-26.24	QP	Р						
10	13.6050	-5.54	10.19	4.65	50.00	-45.35	AVG	P						
11	25.4805	23.33	10.28	33.61	60.00	-26.39	QP	P						
12	25.4805	13.05	10.28	23.33	50.00	-26.67	AVG	Р						

EMC Test Report Page 11 of 14

4. Radiated Disturbance

4.1 Standard and Limit

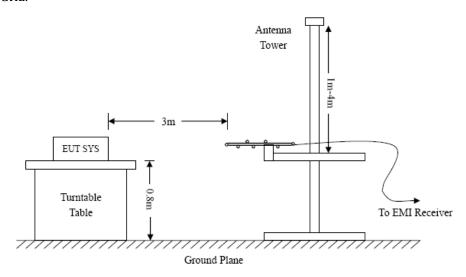
According to the rule FCC Part 15.109, Radiated emission limit for a class A and class B device as below:

Enguency 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	54								
Note: The more stringent limit applies at transition frequencies.									

Report No: SSP24040270-1E

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

EMC Test Report Page 12 of 14

Test I	Plots and	Data	of Rad	iate	d En	nissio	ons								
Tested Model:					FM-KR5C-HD2WD										
Tested Mode:					TM1										
Test Voltage:					AC 120V/60Hz										
Test Antenna Polarization:					Horizontal										
Remark:															
80.0	dBuV/m														
70															
60															
										FC	C Part15 F	RE-Class B	_30-10	000MHz	
50										Ма	rgin -6 dB				
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30														when the	
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10						VI-v-regitality	was a superior		1						
0.0															
3	0.000		60	0.00				(MHz)		30	0.00				1000.000
No.	Freque (MH:		Read (dBu	_		ctor 3/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Rema	ark
1	41.27	65	26.3	80	-8	.31	17.99	40.00	-22.01	QP	200	307	Р		
2		151.0666		26.07 -8.68		.68	17.39	43.50	-26.11	QP	200	296	Р		
3 *			32.1		_	.73	32.90	46.00	-13.10	QP	200	318	Р		
4	869.13		29.3			.55	31.92	46.00	-14.08	QP	200	296	Р		
5	945.43		27.0		_	.23	30.24	46.00	-15.76	QP	200	348	Р		
6	962.16	523	34.5	1	3.	.55	38.06	54.00	-15.94	QP	100	135	Р		

EMC Test Report Page 13 of 14

Test	Plo	ts and	l Data	of Rac	liate	d En	nissio	ons								
Tested Model:						FM-KR5C-HD2WD										
Tested Mode:						TM1										
Test Voltage:						AC 120V/60Hz										
Test Antenna Polarization:						Vertical										
Remark:																
80.0)	dBuV/r	n			1										
	Г															
70																
60																
00											FC	C Part15	RE-Class E	3_30-1	000MHz	
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0.0																
	0.00	00		6	0.00				(MHz)		30	0.00			1000.000	
		Frequ	uency	Read	dina	Fa	actor	Level	Limit	Margin		Height	Azimuth	T		
No	٥.		Hz)	(dBi			3/m)		(dBuV/m)		Detector	(cm)	(deg.)	P/F	Remark	
1	\rightarrow		912	26.		-	.49	16.81	40.00	-23.19	QP	200	348	Р		
2		150.0108 26.61			-8.65		17.96	43.50	-25.54	QP	200	348	P			
3	$\overline{}$	744.8661		-	32.53 0.73			33.26	46.00	-12.74	QP	100	12	P		
4	\rightarrow	785.0935 869.1302		-	30.65 1.89			32.54	46.00	-13.46	QP	200	328	P		
5	$\overline{}$		1302 1623	29. 35.		-	.55 .55	31.76 39.36	46.00 54.00	-14.24 -14.64	QP QP	100	328 126	P		
_ 0		3 02.	1023	J 35.	01		.55	38.30	54.00	-14.04	UP	100	120			

EMC Test Report Page 14 of 14