



# RF Exposure Report

## For

**Applicant Name:****Huaxin (Dongguan)Technology Co., Ltd.****Address:**

Room 801, Building 4, No. 6, Yongsheng North Road, Fenggang, Dongguan City, Guangdong Province, China

**EUT Name:**

Cylinder Floor Lamp

**Brand Name:**

N/A

**Model Number:**

HX-828

**Series Model Number:**

HX-848/HX-868/HX-888/HX-808/HX-828A/HX-828B//HX-828C//HX-828D

## Issued By

**Company Name:****BTF Testing Lab (Shenzhen) Co., Ltd.****Address:**

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

**Report Number:**

BTF250318R00402

**Test Standards:**

47 CFR Part 2 Subpart J Section 2.1091

**FCC ID:**

2BB6BHX-828

**Test Conclusion:**

Pass

**Date of sample receipt:**

2025-04-16

**Test date:**

2025-04-17 to 2025-04-27

**Date of issue:**

2025-04-27

**Test by:**

Zero Zeng

Zero Zeng / Tester

**Prepared by:**

Chris Liu

Chris Liu / Project  
engineer**Approved by:**

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Revision History		
Version	Issue Date	Revisions Content
R_V0	2025-04-27	Original
<i>Note:</i>	<i>Once the revision has been made, then previous versions reports are invalid.</i>	

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## 1. Introduction

### 1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

### 1.2 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1409**

BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 518915.

- **CNAS - Registration No.: CNAS L17568**

BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.

- **A2LA - Registration No.: 6660.01**

BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

### 1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2. Product Information

### 2.1 Application Information

Company Name:	Huaxin (Dongguan)Technology Co., Ltd.
Address:	Room 801, Building 4, No. 6, Yongsheng North Road, Fenggang, Dongguan City, Guangdong Province, China

### 2.2 Manufacturer Information

Company Name:	Huaxin (Dongguan)Technology Co., Ltd.
Address:	Room 801, Building 4, No. 6, Yongsheng North Road, Fenggang, Dongguan City, Guangdong Province, China

### 2.3 Factory Information

Company Name:	Huaxin (Dongguan)Technology Co., Ltd.
Address:	Room 801, Building 4, No. 6, Yongsheng North Road, Fenggang, Dongguan City, Guangdong Province, China

### 2.4 General Description of Equipment under Test (EUT)

EUT Name	Cylinder Floor Lamp
Under Test Model Name	HX-828
Series Model Name	HX-848/HX-868/HX-888/HX-808/HX-828A/HX-828B//HX-828C//HX-828D
Description of Model name differentiation	Only the model name is different, everything else is the same
Hardware Version	N/A
Software and Firmware Version	N/A

### 3. Test Requirement

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b), Limits for Maximum Permissible Exposure (MPE),

Frequency range (MHz)	Electric field strength(V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30–300	61.4	0.163	1.0	6
300–1500	-	-	f/300	6
1500–100,000	-	-	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30–300	27.5	0.073	0.2	30
300–1500	-	-	f/1500	30
1500–100,000	-	-	1.0	30

Note: f = frequency in MHz

#### EVALUATION METHOD

Transmission formula:  $Pd = (Pout*G)/(4*pi*r^2)$

Where

**Pd** = power density in mW/cm<sup>2</sup>, **Pout** = output power to antenna in mW, **G** = gain of antenna in linear scale; **Pi** = 3.1416, **R** = distance between observation point and center of the radiator in cm

### 3.1 Assessment Result

Passed       Not Applicable

Frequency (MHz)	Type	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
2402	BT-BLE	-10.70	-10.00	0.00002	1.0000	Pass

Note: The exposure evaluation safety distance is 20cm.



Test Report Number: BTF250318R00402



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