

**Applicant Name:** Cononlux Technology Co., Ltd

**Applicant Address:** 1-4F Building A5, A6, Langxin Industrial Park, Langxin Community, Shiyan Street, Bao'an District, Shenzhen

**Test item:** Floor lamp

**Model / Type Reference:** 347-0228

**FCC ID:** 2BH2P-347-0228

**Date of Issue:** 2025-06-14

**Testing Laboratory:** LCTECH Guangdong Testing Services Co., Ltd.  
2/F., Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

**Test Specification:** KDB 447498 D01 General RF Exposure Guidance v06

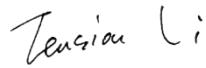
**Test Result:** Passed

**Compiled by:** **Reviewed by:**

2025-06-14 Rex He



2025-06-14 Tension Li



Date

Name

Signature

Date

Name

Signature

**Remark:**

N/A

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## RF Exposure Evaluation

### Limits

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

f = frequency in MHz

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

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

Pd is the limit of MPE, 1mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

### Test Procedure

Software provided by client enabled the EUT to transmit and receive data in

Bluetooth and wireless functions individually.

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## Test Result of RF Exposure Evaluation

### BLE mode

Channel	Output power to antenna(dBm)	Output power to antenna(mW)	Power Density at R=20cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
2440MHz	4.200	2.63	0.0011	1.0	PASS

### 802.11b

Channel	Output power to antenna(dBm)	Output power to antenna(mW)	Power Density at R=20cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
2437MHz	11.762	15.003	0.0065	1.0	PASS

The RF function of the product can only be used in one mode at a time, so there is no need for co-assessment.

Remark: antenna gain=2.21dBi

The max power density is less than MPE exempt limit, so it is compliance.