

MAXIMUM PERMISSIBLE EXPOSURE EVALUATION REPORT

Applicant: Lepro Innovation INC

Address: 3651 Lindell Road Suite D1048, Las Vegas, Nevada 89103, United States

Product Name: Smart LED Bulb

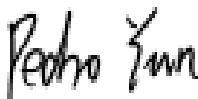
FCC ID: 2A3MABG1

Standard(s): 47 CFR §1.1310, 47 CFR §2.1091
47 CFR §15.247(i)

Report Number: 2402Z56950E-RF-00D

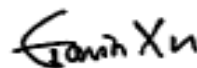
Report Date: 2025/1/8

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).



Reviewed By: Pedro Yun

Title: Project Engineer



Approved By: Gavin Xu

Title: RF Supervisor

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GENERAL INFORMATION

General Description Of Equipment under Test

EUT Name:	Smart LED Bulb
EUT Model:	BG1
Rated Input Voltage:	120Vac
EUT Received Date:	2024/11/23
EUT Received Status:	Good

RF EXPOSURE EVALUATION (MPE)

RF Exposure Evaluation

Applicable Standard

According to subpart 15.247(i) and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	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; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculation formula

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

Operation Modes	Frequency (MHz)	Antenna Gain		Conducted output power including Tune-up Tolerance [▲]		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
BLE	2402-2480	3.10	2.04	21	125.89	20.00	0.0512	1.0
2.4G Wifi	2412-2462	3.10	2.04	26	398.11	20.00	0.1618	1.0

Note:

The Conducted output power including Tune-up Tolerance provided by manufacturer

BLE and 2.4G Wifi can't transmit simultaneously.

Result: Compliant. The device compliant RF Exposure at 20cm distances.

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402Z56950E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402Z56950E -RF-INP EUT INTERNAL PHOTOGRAPHS.

******* END OF REPORT *******