

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: 2A3MAB2

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

Report Number: 2402W49478E-RF-00D

Report Date: 2024/9/18

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

Pedro Yun

Reviewed By: Pedro Yun

Title: Project Engineer

Ivan Cao

Approved By: Ivan Cao

Title: EMC Manager

Bay Area Compliance Laboratories Corp. (Dongguan)
No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China

Tel: +86-769-86858888

Fax: +86-769-86858891

www.baclcorp.com.cn

Note: The information marked ▲ is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report cannot be reproduced except in full, without prior written approval of the Company. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0. This report may contain data that are not covered by the accreditation scope and shall be marked with ★. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

CONTENTS

DOCUMENT REVISION HISTORY	3
1. GENERAL INFORMATION	4
1.1 GENERAL DESCRIPTION OF EQUIPMENT UNDER TEST.....	4
2. RF EXPOSURE EVALUATION (MPE).....	5
2.1 RF EXPOSURE EVALUATION	5
2.1.1 Applicable Standard.....	5
2.1.2 Calculation formula:	5
2.1.3 Calculated Data:	5
EXHIBIT A - EUT PHOTOGRAPHS.....	6

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2402W49478E-RF-00D	Original Report	2024/9/18

1. GENERAL INFORMATION

1.1 General Description Of Equipment under Test

EUT Name:	Smart LED Bulb
EUT Model:	B2
Rated Input Voltage:	AC 120V
EUT Received Date:	2024/8/19
EUT Received Status:	Good

2. RF EXPOSURE EVALUATION (MPE)

2.1 RF Exposure Evaluation

2.1.1 Applicable Standard

According to subpart 15.247(i), 15.407(f) 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.

2.1.2 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);

2.1.3 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	3.1	2.04	15.5	35.48	20.00	0.014	1.0
2.4G Wifi	2412-2462	3.1	2.04	24.5	281.84	20.00	0.115	1.0

Note:

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

2.4G Wifi and BLE can't transmit simultaneously.

Result: Compliant. The device compliant Simultaneous transmission at 20cm distances.

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402W49478E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402W49478E-RF-INP EUT INTERNAL PHOTOGRAPHS.

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