



## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: : SZCR240200048803

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# Human Exposure Report

**Application No.:** SZCR2402000488LM  
**Applicant/ Manufacturer/ Factory:** BAO JIE ELECTRONICS (SHENZHEN) LIMITED  
**Address of Applicant/ Manufacturer/ Factory:** Dongcai Industrial District, Gushu Community, Xixiang Street, Baoan, Shenzhen, Guangdong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** LIGHT No.1 OUTDOOR LAMP  
**Model No.:** 32401 ♣  
♣ Please refer to section 2.1 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** HOUE  
**FCC ID:** 2BE8ZLIGHTNO1  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
47 CFR PART 2, Subpart J, Section 2.1091  
**Date of Receipt:** 2024-02-05  
**Date of Test:** 2024-02-08 to 2024-02-27  
**Date of Issue:** 2024-03-01

<b>Test Result :</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above

Keny Xu

Keny Xu  
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-03-01		Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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## 2 General Information

### 2.1 Details of E.U.T.

Power supply:	Recharged by AC/DC power adapter Adapter M/N:PD0251UC-0201 Adapter Input: AC100-240V, 50/60Hz, 0.8A Adapter Output: DC5V/3A, 9V/2.22A, 12V/1.67A WPC output: 5W
Cable(s):	USB cable: 1.5m unshielded cable without ferrite core
Operation frequency:	110.6kHz to 146.4kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

#### Declaration of EUT Family Grouping:

Model No.: 32401

There are six colors of the above model, Only the model Antracit one was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on colour.



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### 2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Wireless Lamp	BAO JIE ELECTRONICS	32401	/



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## 2.3 Test Location

All tests were performed at:

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No tests were sub-contracted.

## 2.4 Test Facility

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

### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

### • VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

### • FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

## 2.5 Deviation from Standards

None.

## 2.6 Abnormalities from Standard Conditions

None.



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### 3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-04-01
2	Near-field Electric and Magnetic Field Sensor system	Auden	MAGPy-8H3D+E3D	3080	2024-11-14
3	Near-field Electric and Magnetic Field Sensor system	Auden	MAGPy-DAS	3076	2024-11-14



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## 4 Test Results

### 4.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 20cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
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>(B) Limits for General Population/Uncontrolled Exposure</b>				
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

\*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).



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### 4.1.1 E.U.T. Operation

#### Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1000 mbar

This device has been tested the worst status of full load and the device has been tested with WPC lamp at zero charge, intermediate charge, and full charge.

### 4.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	Wireless Charge mode_Keep the EUT charging(5W)



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### 4.1.3 Measurement Data

Input Voltage=DC 5V; The max output power =5W for each coil.

#### Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
126 kHz which is the worst case within the operation frequency range	20	Side 1	0.042	0.053	0.057	0.815	0.163
		Side 2	0.038	0.043	0.052		
		Side 3	0.043	0.050	0.062		
		Side 4	0.045	0.051	0.063		
		Top	0.045	0.048	0.053		



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### Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			Zero charge	Intermediate charge	Full charge		
126 kHz which is the worst case within the operation frequency range	20	Side 1	0.077	0.068	0.041	0.815	0.163
		Side 2	0.072	0.061	0.035		
		Side 3	0.074	0.063	0.034		
		Side 4	0.075	0.062	0.035		
		Top	0.067	0.055	0.034		

### Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)			50 % Limit (V/m)
			Unload	Half load	Full load	
126 kHz which is the worst case within the operation frequency range	20	Side 1	0.044	0.661	0.876	307
		Side 2	0.041	0.642	0.850	
		Side 3	0.030	0.654	0.869	
		Side 4	0.046	0.602	0.797	
		Top	0.040	0.408	0.541	



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Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50 % Limit (V/m)
			Zero charge	Intermediate charge	Full charge	
131 kHz which is the worst case within the operation frequency range	20	Side 1	0.774	0.640	0.376	307
		Side 2	0.751	0.622	0.364	
		Side 3	0.768	0.633	0.371	
		Side 4	0.703	0.582	0.341	
		Top	0.477	0.395	0.230	

- End of the Report -



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