

RF Exposure

Applicant : Globe Electric Company Inc.
Address : 150 Oneida, Montreal, Quebec, Canada, H9R 1A8
Product Name : Smart LED Flush Mount
Brand Mark : N/A
Model : 66000164
Series model : N/A
Report Number : BLA-EMC-202605-A102-03
FCC ID : 2AQUQGL66164
Date of Receipt : May 28,2026
Date of Test : May 28,2026 to Jun. 12,2026
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1091
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by:

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Review by:

Xavier

Approved by:

Blue Zheng

Issued Date:

Jun. 12,2026



BlueAsia Technical Services (Shenzhen) Co., Ltd

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan
Subdistrict, Bao'an District, Shenzhen, Guangdong, China



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Table of Contents

1 General information	4
1.1 General information	4
1.2 General description of EUT	4
2 Laboratory and accreditations	5
3 RF Exposure Compliance Requirement	6
3.1 Standard Requirement	6
3.2 Limits	6
3.3 Result	7

Revise Record

Version No.	Date	Description
01	Jun. 12,2026	Original

1 General information

1.1 General information

Applicant	Globe Electric Company Inc.
Address	150 Oneida, Montreal, Quebec, Canada, H9R 1A8
Manufacturer	JIANGXI SUPERSUN TECHNOLOGY LIGHTING CO., LTD
Address	Supersun Park, Wannian IndustrialZone, SHANGRAO Jiangxi 335500
Factory	GLOBAL DRAGON TECH(THAILAND) CO., LTD.
Address	188/12 MOO1 T. MABPAI A. Banbung District, Chon Buri Province, 20170. Thailand

1.2 General description of EUT

Product Name	Smart LED Flush Mount
Model no.	66000164
Series model	N/A
Differences of Series model	N/A
Power supply or adapter information	Input: 120V~60Hz
Hardware version	1.0.51
Software version	N/A
Engineer sample no.	BLA-EMC-202605-A102

Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

For BLE

Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK
Rate data	1Mbps
Channel Spacing	2MHz
Number of Channels	40
Antenna Type	PCB antenna
Antenna Gain	-0.23dBi(Provided by customer)

For 2.4GWIFI

Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Nominal Bandwidth	20MHz
Channel Spacing	5MHz
Number of Channels	802.11b/g/n(HT20): 11
Antenna Type	PCB antenna
Antenna Gain	-0.23dBi(Provided by customer)
Function	☒ SISO ☐ 2x2 MIMO ☐ TPC

2 Laboratory and accreditations

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

Company name:	BlueAsia Technical Services (Shenzhen) Co.,Ltd.
Address:	No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
Test Firm Registration Number:	923526
ISED CAB identifier No.:	CN0028
Company Number:	24243
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

3 RF Exposure Compliance Requirement

3.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

3.2 Limits

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

3.3 Result

Calculated Result and Limit (WORSE CASE IS AS BELOW)

Mode	Frequency (MHz)	Max Output power(dBm)	Max Output power(mW)	Ant gain (dBi)	Evaluation ERP(dBm)	Evaluation ERP(mW)	Distance (cm)	Limit of Pth(mW)	Result
BLE 1M	2480	1.251	1.33	-0.23	-1.129	0.77	20	3060.00	Pass
WIFI2.4G B	2412	15.212	33.20	-0.23	12.832	19.20	20	3060.00	Pass

ERP=Max Output power+Ant gain-2.15

Simultaneous emission:

$\sum_{i=1}^a \frac{P_i}{P_{th,i}}$	$=(1.251+15.212)/3060=0.005<1$
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$\sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}}$	$=(0.77+19.20)/3060 =0.007<1$
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Comply with RF exposure exemption limit.

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