

FCC RF Exposure

Applicant : Globe Electric Company Inc.
Address : 150 Oneida, Montreal, Quebec, Canada, H9R 1A8
Product Name : Smart LED Flush Mount
Brand Mark : SUPERSUN
Model no. : 66000166
Series model : N/A
FCC ID : 2AQUQGL66166
Report Number : BLA-EMC-202607-A126-03
Date of Receipt : Aug. 01, 2026
Date of Test : Aug. 01, 2026 to Aug. 24, 2026
Test Standard : 47 CFR Part 15, Part1.1307
47 CFR Part 15, Part2.1091
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

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Revise Record

Version No.	Date	Description
01	Sep. 21, 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.	66000166
Operation Frequency	BLE: 2402MHz-2480MHz 2.4GWIFI: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type	BLE: GFSK 2.4GWIFI: 802.11b: DSSS(CCK/QPSK/BPSK) 802.11g: OFDM(BPSK/QPSK/16QAM/64QAM) 802.11n (HT20): OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels	BLE:40 2.4GWIFI: 802.11b/g:11 Channels 802.11n (HT20): 11 Channels
Antenna Type	PCB antenna
Antenna Gain	-0.23dBi
Power supply	AC 120V
Hardware Version	N/A
Software Version	N/A

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

2 RF Exposure Compliance Requirement

2.1 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.

2.2 Limits

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

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

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

2.3 Result

$$\text{EIRP} = \text{pt} \times \text{gt} = (\text{E} \times \text{d})^{2/30}$$

Where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m

d = measurement distance in meters (m)

$$\text{Spot} = (\text{E} \times \text{d})^{2/30} \times \text{gt}$$

Separation distance= 20cm

BLE Antenna Gain: -0.23dBi

2.4GWIFI Antenna Gain: -0.23dBi

BLE worse case: **2.029dBm @ 2480MHz**

EIRP = 2.029dBm-0.23dBi=1.799dBm, because Max Output power >EIRP

So, Max Output power= 2.029dBm=1.596mW < 3060 mW

MPE ratio(BLE)=1.596/3060=0.00052.

2.4G WIFI worse case: **11.398dBm @ 2412MHz**

EIRP = 11.398dBm-0.23dBi=11.168dBm, because Max Output power >EIRP

So, Max Output power=11.398dBm=13.797mW < 3060 mW

MPE ratio(2.4GWIFI)=13.797/3060=0.00450.

For Simultaneous Transmission :

As MPE ratio (BLE+2.4GWIFI)

=0.00052+0.00450+=0.00502 < 1,

Comply with RF exposure exemption limit.

----END OF REPORT----

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