

Applicant Name: Li Ming Electric (Nanhai) Co., Ltd.

Applicant Address: "Shi Zai Gang" Diduan, Huangdong Cun, Shishan Town, Nanhai, FOSHAN Guangdong Province

Test item: CONNECT SOLAR DECK LIGHT

Model / Type Reference: NXT-1781

FCC ID: 2BVDD-NXT-1781

Date of Issue: 2026-04-01

Testing Laboratory: LCTECH Guangdong Testing Services Co., Ltd.
2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

Test Specification: KDB 447498 D01 General RF Exposure Guidance v06

Test Result: Passed

Compiled by:

Reviewed by:

2026-04-01 Rex He

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2026-04-01Tension Li

Tension Li

Date Name Signature

Date Name Signature

RF Exposure evaluation

According to 447498 D04 Interim General RF Exposure Guidance v01

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

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

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). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

	Distance (mm)										
		5	10	15	20	25	30	35	40	45	50
Frequency (MHz)	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

Field Strength (E): 84.14dBu/m

The field strength described in Section 4.2 of the LCZE26040005 report.

Antenna Gain: 0dBi

D = measurement distance in meters (m)---3m

So: EIRP(dBm)=E-104.8+20logD=84.14-104.8+20log3=-11.11dBm

EIRP(mW)= $10_{(\text{dBm}/10)}$ = $10_{(-11.11/10)}$ =0.077mW

Frequency(MHz)	Field Strength (dBu/m)	eirp(mW)	limit (mW)	min. distance (cm)
2476	84.14	0.077	3	0.50

0.077mW<3mW

Then SAR evaluation is not required