

FCC RF EXPOSURE REPORT

For

DIMMER

MODEL NUMBER: HDA11FWB

FCC ID: 2AB2QHDA11FWB

REPORT NUMBER: 4789572667-4

ISSUE DATE: August 31, 2020

Prepared for

LEEDARSON LIGHTING CO.,Ltd.
XINGDA RD, XINGTAI INDUSTRIAL ZONE, CHANGTAI COUNTY, ZHANGZHOU,
FUJIAN, 363900, CHINA

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone, Dongguan, People's Republic of China

Tel: +86 769-22038881 Fax: +86 769 33244054 Website: www.ul.com



TABLE OF CONTENTS

1.	ATTESTATION OF TEST RESULTS	. 3
2.	TEST METHODOLOGY	. 4
3.	FACILITIES AND ACCREDITATION	. 4
1	REQUIREMENT	5



REPORT No.: 4789572667-4

Page 3 of 6

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: LEEDARSON LIGHTING CO.,Ltd.

Address: XINGDA RD, XINGTAI INDUSTRIAL ZONE, CHANGTAI COUNTY,

ZHANGZHOU, FUJIAN, 363900, CHINA

Manufacturer Information

Company Name: LEEDARSON LIGHTING CO., Ltd.

XINGDA RD, XINGTAI INDUSTRIAL ZONE, CHANGTAI COUNTY, Address:

ZHANGZHOU, FUJIAN, 363900, CHINA

EUT Information

EUT Name: DIMMER Model: HDA11FWB Sample Status: Normal Sample ID: 3220784 Sample Received Date: July 29, 2020

Date of Tested: July 29, 2020~ August 7, 2020

APPLICABLE STANDARDS

STANDARD

TEST RESULTS PASS

FCC 47CFR§2.1091

KDB-447498 D01 V06

Checked By:

Prepared By:

Kebo Zhang

Project Engineer

kelo. Thung.

Shawn Wen

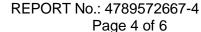
Laboratory Leader

Shemm les

Approved By:

Stephen Guo

Laboratory Manager





r age + or

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

3. I AGILITIEG AND AGGINEDITATION								
	A2LA (Certificate No.: 4102.01)							
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.							
	has been assessed and proved to be in compliance with A2LA.							
	FCC (FCC Designation No.: CN1187)							
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.							
	Has been recognized to perform compliance testing on equipment subject							
	to the Commission's Delcaration of Conformity (DoC) and Certification							
	rules							
Accreditation	ISED(Company No.: 21320)							
Certificate	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.							
Continiodio	has been registered and fully described in a report filed with							
	Industry Canada. The Company Number is 21320.							
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)							
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.							
	has been assessed and proved to be in compliance with VCCI, the							
	Membership No. is 3793.							
	Facility Name:							
	Chamber D, the VCCI registration No. is G-20019 and R-20004							
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011							

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.



4. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure									
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time $ E ^2$, $ H ^2$ or S (minutes)					
0.3-1.34	614	1.63	(100)*	30					
1.34-30	824/f	2.19/f	(180/f2)*	30					
30-300	27.5	0.073	0.2	30					
300-1500			f/150	30					
1500-100,000			1.0	30					

Note 1: f = frequency in MHz, * means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm² is available for this EUT.

MPE CALCULATION METHOD

$S = PG/(4\pi R^2)$

where: S = 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

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)



CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

(Worst case)									
Operating	Max. Power	Max. Antenna Gain		Power density	Limit				
Mode	(dBm)	(dBi)	(num)	(mW/ cm ²)	Liiiii				
BLE	10	-1.7	0.68	0.00135	1				
2.4G wifi	18	-1.7	0.68	0.00849	1				

Note:

- 1. The calculated distance is 20cm.
- 2. WLAN 2.4G & BLE cannot transmit simultaneously.
- 3. Therefor the maximum calculations of above situations are less than the "1" limit.

END OF REPORT