

FCC RF EXPOSURE REPORT

For

WIZ10 Sensor

MODEL NUMBER: WIZ10

FCC ID: 2AS3F-WIZ10

REPORT NUMBER: 4789002752-3

ISSUE DATE: June 05, 2019

Prepared for

Current Lighting Solutions, LLC 1975 Noble Rd East Cleveland Ohio 44112 United States

Prepared by

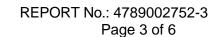
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1. ATTESTATION OF TEST RESULTS

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Company Name: Current Lighting Solutions, LLC

Address: 1975 Noble Rd East Cleveland Ohio 44112 United States

Manufacturer Information

Company Name: LEEDARSON LIGHTING CO., LTD.

Address: Xingtai Industrial Zone, Economic Development Zone, Changtai

County, Zhangzhou City, Fujian Province, P.R.China

EUT Description

EUT Name: WIZ10 Sensor

Model: WIZ10

Sample Received Date: May 14, 2019
Date of Tested: May 14~21, 2019

APPLICABLE STANDARDS

STANDARD

TEST RESULTS

FCC 47CFR§2.1091

Complies

KDB-447498 D01 V06

Tested By:

Checked By:

Shemy les

Kebo Zhang

Engineer Project Associate

Kelo. Thurs

Shawn Wen Laboratory Leader

Approved By:

Stephen Guo

Laboratory Manager



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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

5. I AGILITIES AND AGONEDITATION				
	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. Tune up Power	Antenna Gain		Power density	Limit
Mode	(dBm)	(dBi)	(num)	(mW/ cm ²)	Liiiit
ZigBee	19	2	1.58	0.0250	1
BLE	14	2	1.58	0.0079	1

Note:

- 1. the calculated distance is 20cm.
- 2. ZIGBEE & BLE can't transmit simultaneously.

END OF REPORT