

### **FCC RF EXPOSURE REPORT**

For

#### Portable Floor Luminaire For Indoor And Outdoor Use

MODEL NUMBER: EDISON THE GIANT

**FCC ID: 2ARLZEDISONTHEGIANT** 

REPORT NUMBER: 4788563096-F02-00

**ISSUE DATE: Nov. 13, 2018** 

# Prepared for

Fatboy the Original b.v.
HET ZUIDERKRUIS 3, 5215MV'S-HERTOGENBOSCH, THE NETHERLANDS

### Prepared by

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## **Revision History**

Rev.	Issue Date	Revisions	Revised By
	11/13/2018	Initial Issue	

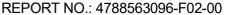






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### 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: Fatboy the Original b.v.

HET ZUIDERKRUIS 3, 5215MV'S-HERTOGENBOSCH, Address:

THE NETHERLANDS

**Manufacturer Information** 

Company Name: Dilead Technologies (Guangzhou) Co., Ltd.

Address: 4th Floor, No. 5 Building, Chuang Xing Industrial Park, Sha Pu,

> Xin Tang Town, Zeng Cheng District, 511340 GuangZhou City, China

**EUT Description** 

**EUT Name:** Portable Floor Luminaire For Indoor And Outdoor Use

Model: **EDISON THE GIANT** 

**Brand Name:** fatboy

Sample Status: Normal Sample ID: 03059

Sample Received Date: Sep. 05, 2018

Date of Tested: Sep. 29 2018~ Oct. 05 2018

### **APPLICABLE STANDARDS**

**STANDARD** 

**TEST RESULTS** 

Complies

FCC 47CFR§2.1091

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# 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

# 3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4338.01) Shenzhen STS Test Services Co., Ltd. has been assessed and proved to be in compliance with A2LA. CNAS (Registration No.: L7649) Shenzhen STS Test Services Co., Ltd. has been assessed and proved to be in compliance with CNAS. FCC (FCC Designation No.: 625569) Shenzhen STS Test Services Co., Ltd. has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules IC(Company No.: 12108A) Shenzhen STS Test Services Co., Ltd. has been registered and fully described in a report filed with
	Industry Canada. The Company Number is 12108A.



### 4. REQUIREMENT

### **LIMIT AND CALCULATION METHOD**

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

#### RF EXPOSURE LIMIT

Frequency Range (MHz)	E-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/f <sup>2</sup> )*	30
30 300	27.5	0.073	0.2	30
300 1500			f/1500	30
1500 100,000			1.0	30

### **CALCULATION METHOD**

S=PG/4πR<sup>2</sup>

Where:

S=power density

P=power input to antenna

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



### **CALCULATED RESULTS**

BLE Mode						
Frequency	Output Power	Output Power	Power Density	Limit	Test Result	
MHz	dBm	mW	mW/cm <sup>2</sup>	mW/cm <sup>2</sup>		
2402	1.46	1.40	0.00039	1	PASS	

Note: 1. Antenna Gain=2dBi (Numeric 1.403), π=3.1416.

- 2. The Power comes from turn up power which declared by customer.
- 3. The minimum separation distance of the device is greater than 20 cm.
- 4. Calculate by WORST-CASE mode.

## **END OF REPORT**