

RF Exposure Evaluation Declaration

Product Name : LED LAMP
Model No. : LED9DR30/CLFE
FCC ID : PUU-R30-CLFE

Applicant : GE Lighting Co. Ltd
Address : No. 88, lane 1517, Hu yi Road, Jiading District,
Shanghai,

Date of Receipt : Sep. 08, 2016
Test Date : Aug. 29, 2016~ Aug. 31, 2016
Issued Date : Dec. 07, 2016
Report No. : 1692030R-RF- US- P20V01
Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by CNAS, TAF or any agency of the government.

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Test Report Certification

Issued Date : Dec. 07, 2016

Report No. : 1692030R-RF-US-P20V01



Product Name : LED LAMP
Applicant : GE Lighting Co. Ltd
Address : No. 88, lane 1517, Hu yi Road, Jiading District, Shanghai,
Manufacturer : LEEDARSON LIGHTING CO., LTD.
Address : Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian, China
Model No. : LED9DR30/CLFE
FCC ID : PUU-R30-CLFE
EUT Voltage : 120V,60Hz,9W
Brand Name : GE
Applicable Standard : KDB 447498D01V06
FCC Part1.1310(b)
Test Result : Complied
Performed Location : Quietek Corporation - Suzhou EMC Laboratory
No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006,
Jiangsu, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
FCC Registration Number: 800392

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(Engineering Manager: Harry Zhao)

Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

| | | |
|----------------------|----------|-----------------------|
| Taiwan R.O.C. | : | BSMI, NCC, TAF |
| USA | : | FCC |
| Japan | : | VCCI |
| China | : | CNAS |

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://www.quietek.com/english/about/certificates.aspx?bval=5>
The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/index_en.aspx

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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TEL : +86-512-6251-5088 / FAX : 86-512-6251-5098 E-Mail : service@quietek.com

History of This Test Report

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|-----------------------|---------|-----------------------|---------------|
| 1692030R-RF-US-P20V01 | V1.0 | Initial Issued Report | Dec. 07, 2016 |
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1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Average Time (Minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| (A) Limits for Occupational/ Control Exposures | | | | |
| 300-1500 | -- | -- | F/300 | 6 |
| 1500-100,000 | -- | -- | 5 | 6 |
| (B) Limits for General Population/ Uncontrolled Exposures | | | | |
| 300-1500 | -- | -- | F/1500 | 6 |
| 1500-100,000 | -- | -- | 1 | 30 |

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

| | | |
|-----------|---|------------------------|
| Product | : | LED LAMP |
| Test Item | : | RF Exposure Evaluation |
| Test Site | : | AC-6 |

- Antenna Gain:

| | | | |
|----------------------|-------------------------------------|-----------|---|
| Antenna manufacturer | N/A | | |
| Antenna Delivery | <input checked="" type="checkbox"/> | 1*TX+1*RX | <input type="checkbox"/> 2*TX+2*RX <input type="checkbox"/> 3*TX+3*RX |
| Antenna technology | <input checked="" type="checkbox"/> | SISO | |
| | <input type="checkbox"/> | MIMO | <input type="checkbox"/> Basic |
| | | | <input type="checkbox"/> CDD |
| | | | <input type="checkbox"/> Beam-forming |
| Antenna Type | <input type="checkbox"/> | External | <input type="checkbox"/> Dipole |
| | <input checked="" type="checkbox"/> | Internal | <input type="checkbox"/> PIFA |
| | | | <input type="checkbox"/> PCB |
| | | | <input type="checkbox"/> Ceramic Chip Antenna |
| | | | <input checked="" type="checkbox"/> IFA Antenna |
| | | | <input type="checkbox"/> Dipole |
| Antenna Gain | 1.02dBi | | |

- Output Power into Antenna & RF Exposure Evaluation Distance:

| Test Mode | Frequency Band (MHz) | Maximum Output Power to Antenna (dBm) | Directional Gain (dBi) | Power Density at R = 20 cm (mW/cm ²) | Limit of Power Density S(mW/cm ²) |
|-----------|----------------------|---------------------------------------|------------------------|--|---|
| BLE | 2402~2480 | 10.25 | 1.02 | 0.0027 | 1.0 |

Note: The power density is 0.0027mW/cm² for LED LAMP without any other radio equipment.

————— The End —————