



FCC PART 18

MEASUREMENT AND TEST REPORT

For

Jiangxi Elegant Lighting Co., Ltd.

No.731 Xihou street, Guixi City, Jiangxi, China

FCC ID: VGZGYP14

Report Type:
Original Report

CFL

Test Engineer: Cookies Bu

Report Number: RSZ09010654

Report Date: 2009-02-26

Lisa Zhu

Reviewed By: EMC Engineer

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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP*, NIST, or any agency of the Federal Government. * This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "*" (Rev.2)

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Jiangxi Elegant Lighting Co., Ltd.*'s model: *GYP3014-E26*, or the "EUT" as referred to in this report is a *CFL* which measures approximately: 5.0 cm L x 4.8 cm W x 14.2 cm H, rated input voltage: AC 120V/60Hz.

* All measurement and test data in this report was gathered from production sample serial number: 0901504 (Assigned by BACL, Shenzhen). The EUT was received on 2009-01-06.

Objective

The following test report is prepared on behalf of *Jiangxi Elegant Lighting Co., Ltd.* in accordance with Part 2, Subpart J, and Part 18, Subparts A, B and C of the Federal Communication Commissions rules and regulations.

The objective of the manufacturer is to determine compliance with FCC Part 18 limits.

Related Submittal(s)/Grant(s)

No related submittal(s).

Test Methodology

All measurements contained in this report were conducted with MP-5, FCC Methods of Measurements of Radio Noise Emissions from ISM Equipment, February 1986. All measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 21, 2007. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at http://ts.nist.gov/Standards/scopes/2007070.htm

SYSTEM TEST CONFIGURATION

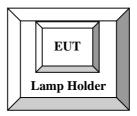
Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

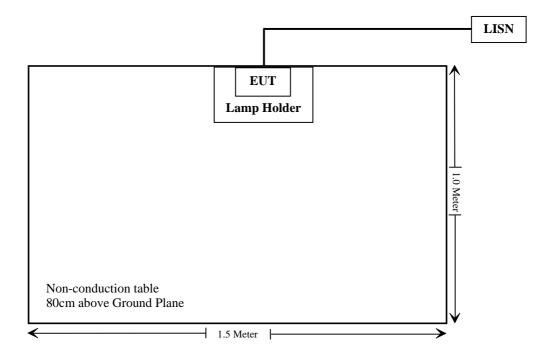
Equipment Modifications

No modifications were made to the unit tested.

Configuration of Test Setup



Block Diagram of Test Setup



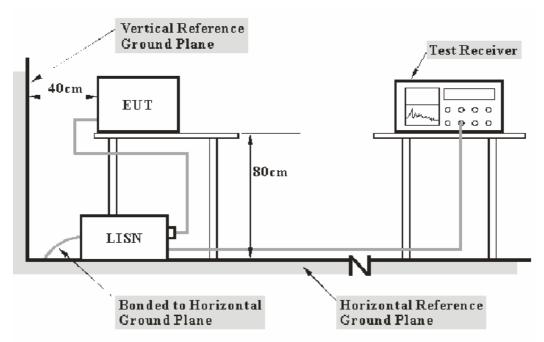
CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is ± 2.4 dB.

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with MP-5: 1986 measurement procedure. Specification used was with the FCC Part 18 limits.

The EUT was connected to a 120 VAC/ 60Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 450 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-----------------|-------------------|---------|------------------|---------------------|-------------------------|
| Com-Power | L.I.S.N. | LI-200 | 12005 | N/A | N/A |
| Com-Power | L.I.S.N. | LI-200 | 12208 | N/A | N/A |
| Rohde & Schwarz | EMI Test Receiver | ESCS30 | DE25330 | 2008-03-25 | 2009-03-25 |
| Rohde & Schwarz | L.I.S.N. | ESH2-Z5 | 892107/021 | 2008-03-25 | 2009-03-25 |

^{*} Com-Power's LISN were used as the supporting equipment.

Test Procedure

During the conducted emission test, the EUT power cord was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 18, with the worst margin reading of:

4.50 dB at 1.560 MHz in the Line conductor mode

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

| Temperature: | 25 ° C | |
|--------------------|-----------|--|
| Relative Humidity: | 56 % | |
| ATM Pressure: | 100.0 kPa | |

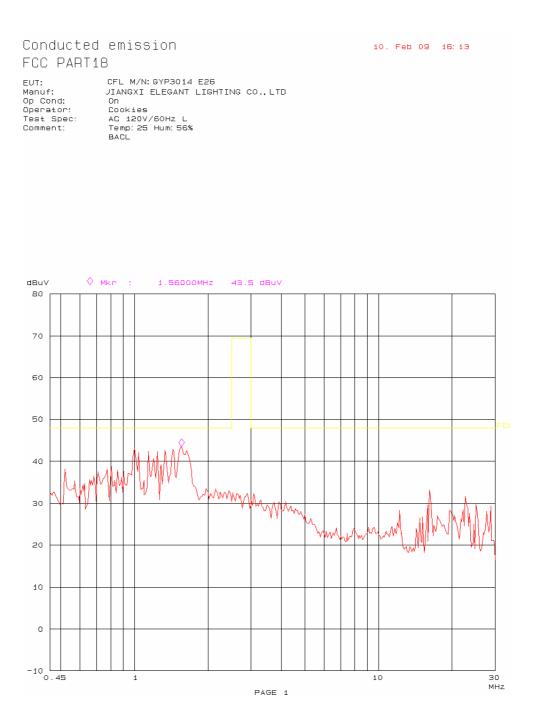
Testing was performed by Cookies Bu on 2009-02-10.

Test Mode: On

| Line Conducted Emissions | | | FCC Part 18.307 | | |
|--------------------------|---------------------|--------------------|-----------------------------|-----------------|----------------|
| Frequency (MHz) | Amplitude (dBµV) | Detector (Peak) | Conductor (Line/Neutral) | Limit (dBµV) | Margin (dB) |
| 1.560 | 43.50 | Peak | Line | 48.00 | 4.50 |
| 1.000 | 43.10 | Peak | Line | 48.00 | 4.90 |
| 1.440 | 42.90 | Peak | Line | 48.00 | 5.10 |
| 1.240 | 42.40 | Peak | Line | 48.00 | 5.60 |
| 1.140 | 42.40 | Peak | Line | 48.00 | 5.60 |
| 1.345 | 42.10 | Peak | Line | 48.00 | 5.90 |
| 1.560 | 41.80 | Peak | Neutral | 48.00 | 6.20 |
| 1.630 | 41.10 | Peak | Neutral | 48.00 | 6.90 |
| 1.440 | 41.10 | Peak | Neutral | 48.00 | 6.90 |
| 1.235 | 40.80 | Peak | Neutral | 48.00 | 7.20 |
| 1.140 | 40.60 | Peak | Neutral | 48.00 | 7.40 |
| 1.335 | 40.50 | Peak | Neutral | 48.00 | 7.50 |

Plot(s) of Test Data

Plot(s) of Test Data is presented hereinafter as reference..

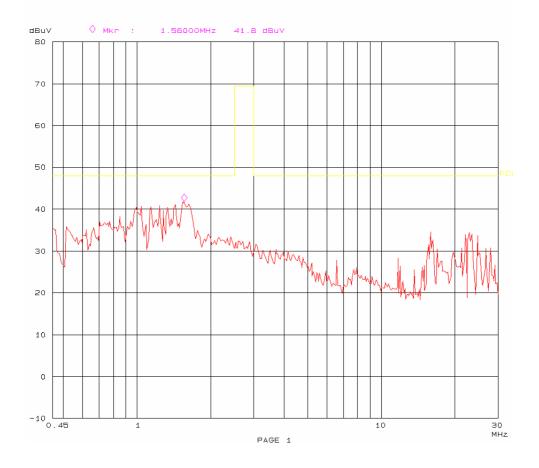


Conducted emission FCC PART18

10. Feb 09 15:20

CFL M/N: GYP3014 E26 JIANGXI ELEGANT LIGHTING CO., LTD

EUT:
Manuf:
Op Cond:
Operator:
Test Spec:
Comment: On Cookies AC 120V/60Hz N Temp: 25 Hum: 56% BACL



***** END OF REPORT *****