



FCC PART 18 MEASUREMENT AND TEST REPORT

For

Jiangxi Elegant Lighting Co., Ltd.

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

FCC ID: VGZGYT65U

Report Type: **Product Type:** Original Report CFL Coopies. Bu Test Engineer: Cookies Bu **Report Number:** RSZ09010651 **Report Date:** 2009-02-26 Lisa Zhu **Reviewed By:** EMC Engineer **Prepared By:** Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008

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TABLE OF CONTENTS

GENERAL INFORMATION	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
Objective	3
RELATED SUBMITTAL(S)/GRANT(S)	3
TEST METHODOLOGY	3
TEST FACILITY	3
SYSTEM TEST CONFIGURATION	5
JUSTIFICATION	
EQUIPMENT MODIFICATIONS	
EXTERNAL I/O CABLE	
CONFIGURATION OF TEST SETUP	5
BLOCK DIAGRAM OF TEST SETUP	5
CONDUCTED EMISSIONS	6
MEASUREMENT UNCERTAINTY	6
EUT SETUP	
EMI TEST RECEIVER SETUP	
TEST EQUIPMENT LIST AND DETAILS	7
TEST PROCEDURE	
TEST RESULTS SUMMARY	7
TEST DATA	
PLOT(S) OF TEST DATA	8

FCC ID: VGZGYT65U

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Jiangxi Elegant Lighting Co., Ltd.* 's model: *GY T6 5U85W, FCC ID:VGZYT65U* or the "EUT" as referred to in this report is a *CFL* which measures approximately: 30.5 cm L x 8.8 cm W x 8.0 cm H, rated input voltage: AC 120V/60Hz.

* All measurement and test data in this report was gathered from production sample serial number: 0901501 (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 04, 2004. 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).

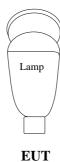
Equipment Modifications

No modifications were made to the unit tested.

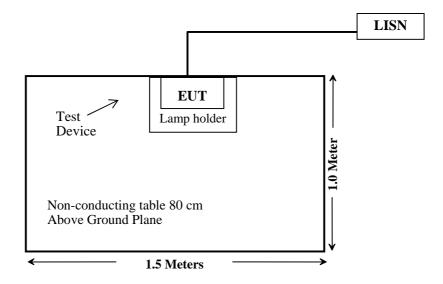
External I/O Cable

Cable Description	Length (m)	From Port	То
Unshielded Undetachable Power Line	1.2	EUT	AC mains

Configuration of Test Setup



Block Diagram of Test Setup



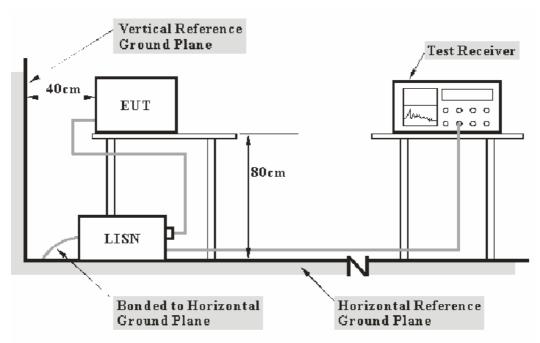
CONDUCTED EMISSIONS

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.

FCC ID: VGZGYT65U

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	Calibratio n 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	830245/006	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:

13.90 dB at 0.490 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 2009-02-11.

Test Mode: On

Line Conducted Emissions			FCC Part 18.307		
Frequency (MHz)	Amplitude (dBµV)	Detector (Peak)	Conductor (Line/Neutral)	Limit (dBµV)	Margin (dB)
0.490	34.10	Peak	Line	48.00	13.90
0.490	33.70	Peak	Neutral	48.00	14.30
0.625	32.80	Peak	Line	48.00	15.20
1.025	32.70	Peak	Neutral	48.00	15.30
1.025	32.70	Peak	Line	48.00	15.30
0.755	32.30	Peak	Neutral	48.00	15.70
0.620	31.60	Peak	Neutral	48.00	16.40
0.710	31.60	Peak	Line	48.00	16.40
0.535	31.30	Peak	Line	48.00	16.70
0.575	31.30	Peak	Line	48.00	16.70
0.710	31.20	Peak	Neutral	48.00	16.80
0.540	30.90	Peak	Neutral	48.00	17.10

Plot(s) of Test Data

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

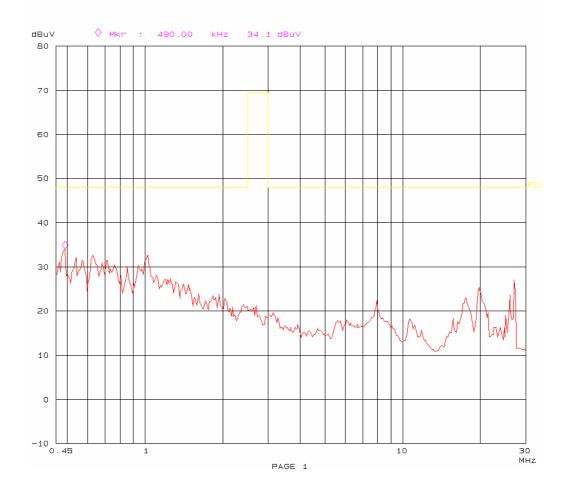
Conducted emission FCC PART18

11. Feb 09 11:03

EUT:

Manuf: Op Cond:

CFL M/N: GY T6 5U85W
JIANGXI ELEGANT LIGHTING CO., LTD
On
Cookies
AC 120V/BOHz L
Temp: 25 Hum: 56%
BACL Operator: Test Spec: Comment:



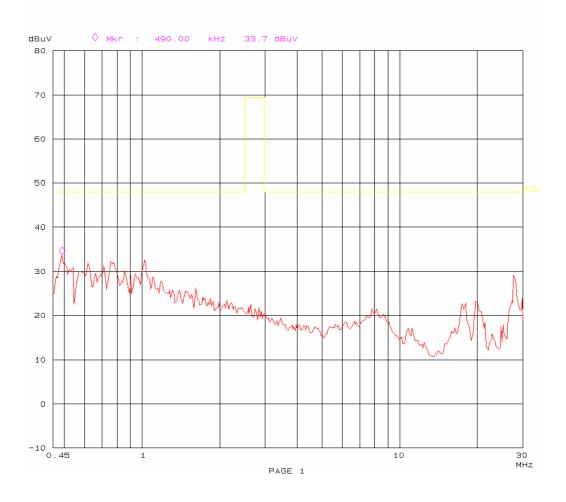
Conducted emission 11. Feb 09 09:59 FCC PART18

EUT:

CFL M/N:GY T6 5U85W
JIANGXI ELEGANT LIGHTING CO.,LTD
On
Cookies Manuf: Op Cond:

Operator:

AC 120V/60Hz N Temp: 25 Hum: 56% Test Spec: Comment: BACL



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