

FCC PART 18

MEASUREMENT AND TEST REPORT

For

Dongguan Ultralite Electronics Co., Ltd.

No. 48 Shangnan Road, Shangjiao, ChangAn, Dongguan, Guangdong, China

FCC ID: SO3UG1320B

February 1, 2005

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: Self-ballasted lamp
Test Engineer: Louise Lu 	
Report Number RSZ05011184	
Test Date: January 28, 2005	
Reviewed By: Chris Zeng 	
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Note: The test report is specially limited to the above company and the product model only.
It may not be duplicated without prior written consent of Bay Area Compliance Laboratory
Corporation. This report **must not** be used by the client to claim product certification,
approval, or endorsement by NVLAP, NIST or any agency of the US Government.

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.....	4
JUSTIFICATION	4
EQUIPMENT MODIFICATIONS	4
CONFIGURATION OF TEST SYSTEM	4
TEST SETUP BLOCK DIAGRAM	4
CONDUCTED EMISSION.....	5
MEASUREMENT UNCERTAINTY	5
EUT SETUP	5
EMI TEST RECEIVER SETUP	5
TEST EQUIPMENT LIST AND DETAILS	6
TEST PROCEDURE	6
TEST DATA	6
PLOT(S) OF TEST DATA	7

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Dongguan Ultralite Electronics Co., Ltd.* 's model *SL13B-120, SL20B-120* or the "EUT" as referred to in this report is a *Self-ballasted lamp* which measures approximately *SL13B-120: 13.5cm L x 5.8cm W x 5.8cm H, SL20B-120: 12.5cm L x 6.0cm W x 6.0cm H*, rated input voltage: AC 120 V/60 Hz.

** The test data gathered are from production sample, SL13B-120 serial number: 0001200131800, SL20B-120 serial number: 0001200202902, provided by the manufacturer.*

Objective

The following test report is prepared on behalf of *Dongguan Ultralite Electronics 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 is to determine compliance with FCC rules.

Related Submittal(s)/Grant(s)

No Related Submittals.

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 radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 Meters.

Test Facility

Test site at Bay Area Compliance Laboratory Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2001 and FCC MP-5.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-1298 and R-1234. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

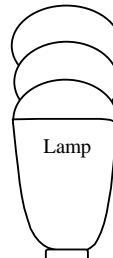
Justification

The EUT was tested under the normal operating conditions stated in the instructions by the manufacturer.

Equipment Modifications

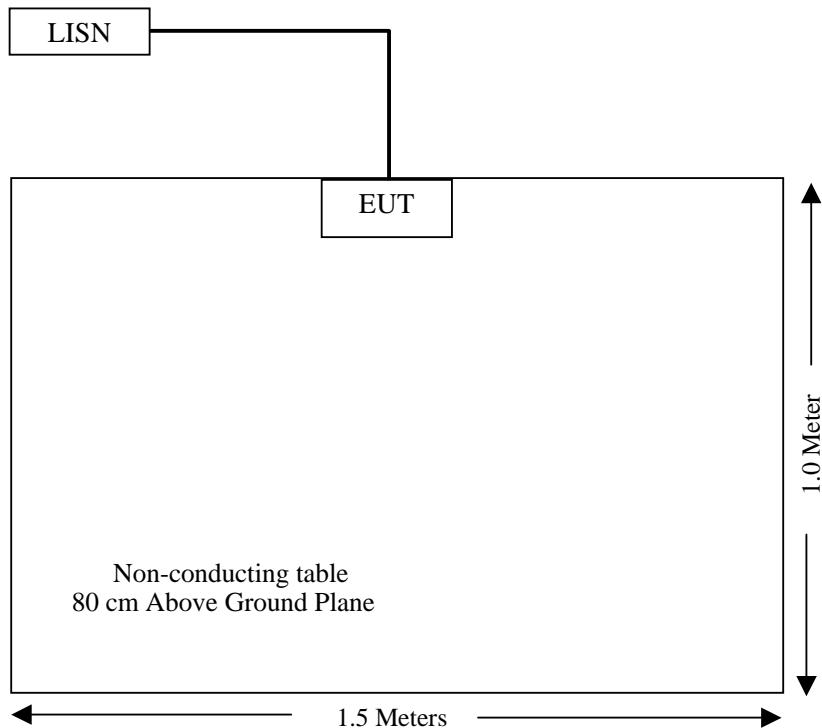
The EUT samples provided were reported by the manufacturer to be representative production samples.

Configuration of Test System



EUT

Test Setup Block Diagram



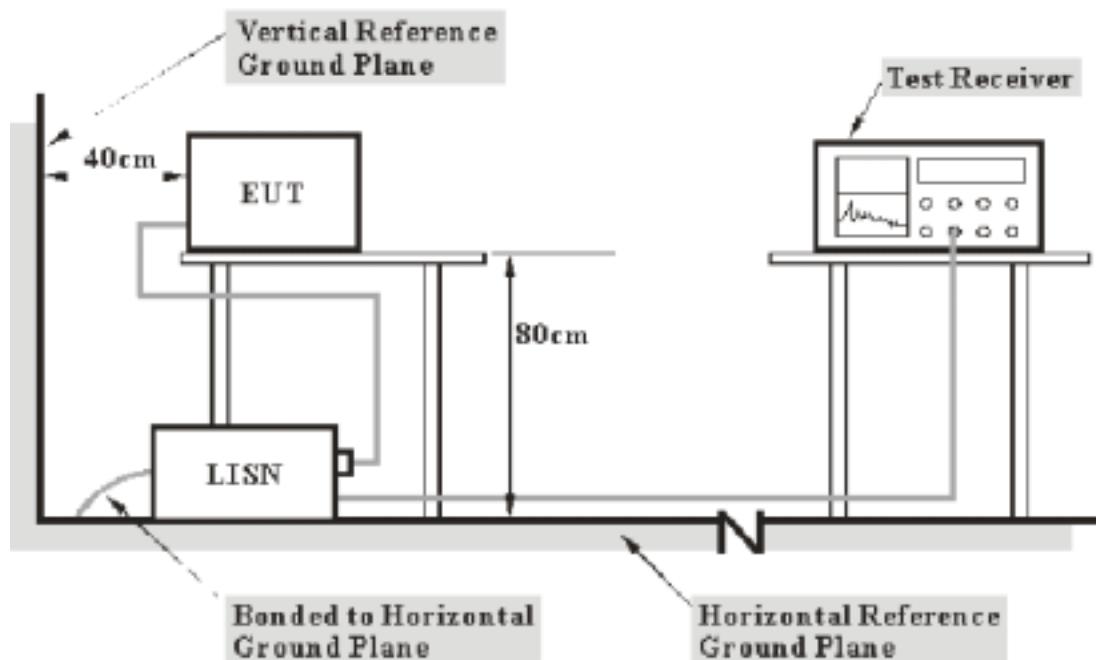
CONDUCTED EMISSION

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 BACL is ± 2.4 dB.

EUT Setup



Note:

1. Support units were connected to second LISN.
2. Both of LISNs (AMIN) 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 measurement procedure. The specification used was the FCC Part 18.

The EUT was connected to a 120 VAC/60 Hz 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 test receiver was set with the following configurations:

Frequency Range	IFBW
450 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	A.M.N	ESH2-Z5	892107/021	2004-11-20	2005-11-19
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245/006	2004-11-20	2005-11-19
Rohde & Schwarz	Pulse Limiter	ESH3Z2	DE25985	2004-11-20	2005-11-19
THERMAX	Coaxial Cable	RGS-142	EC001	2004-11-20	2005-11-19
Fluke	True RMS Multimeter	187	78540402	2004-3-23	2005-3-22

* **Statement of Traceability:** BACL attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

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

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

All data was recorded in the peak detection mode.

Test Data

Date of Test	:	January 28, 2005	Temperature	:	27
EUT	:	Self-ballasted lamp	Humidity	:	65%
M/N	:	SL13B-120	Operating Mode	:	On
S/N	:	0001200131800	Test Engineer	:	Louise Lu

LINE CONDUCTED EMISSIONS				FCC PART 18	
Frequency MHz	Amplitude dB μ V	Detector PK	Phase Line/Neutral	Limit dB μ V	Margin dB
0.455	41.70	PK	Line	48.00	-6.30
0.540	40.70	PK	Neutral	48.00	-7.30
0.710	40.10	PK	Line	48.00	-7.90
0.545	39.00	PK	Line	48.00	-9.00
0.785	38.20	PK	Neutral	48.00	-9.80
24.580	34.40	PK	Neutral	48.00	-13.60

Date of Test	:	January 28, 2005	Temperature	:	27
EUT	:	Self-ballasted lamp	Humidity	:	65%
M/N	:	SL20B-120	Operating Mode	:	On
S/N	:	0001200202902	Test Engineer	:	Louise Lu

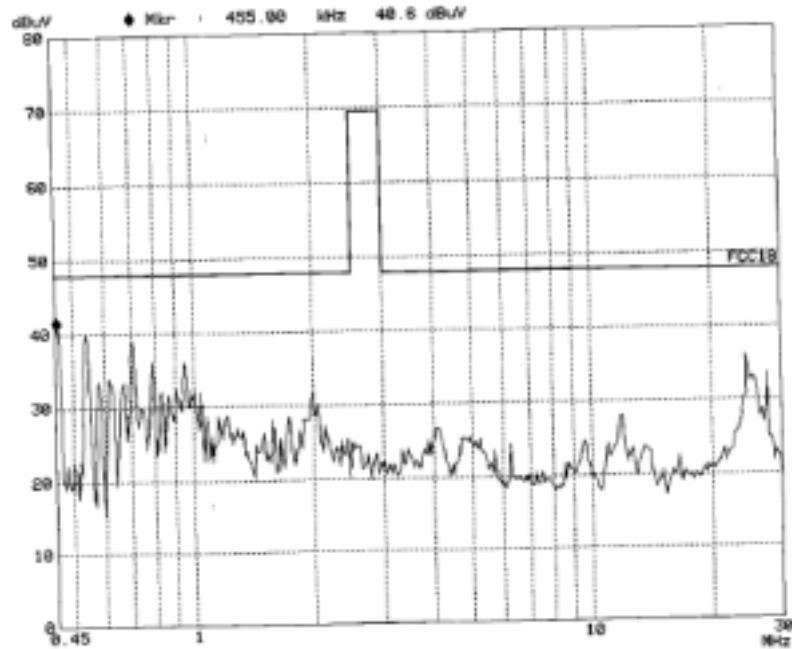
Frequency MHz	LINE CONDUCTED EMISSIONS			FCC PART 18	
	Amplitude dB μ V	Detector PK	Phase Line/Neutral	Limit dB μ V	Margin dB
2.885	43.80	PK	Neutral	48.00	-4.20
0.605	43.10	PK	Neutral	48.00	-4.90
0.515	42.40	PK	Neutral	48.00	-5.60
0.710	42.00	PK	Line	48.00	-6.00
4.700	41.10	PK	Line	48.00	-6.90
24.500	37.90	PK	Line	48.00	-10.10

Test Result: Pass

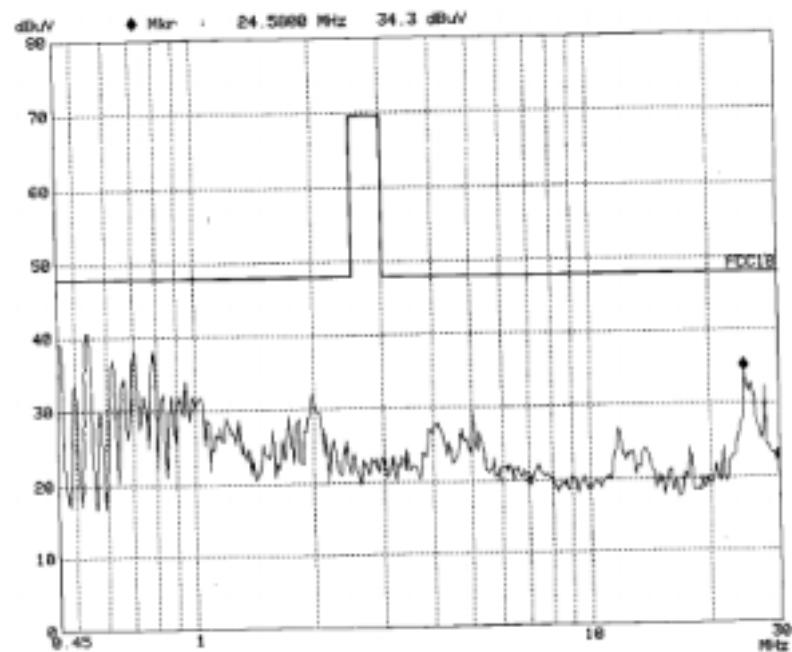
Plot(s) of Test Data

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

SL13B-120:
Line:

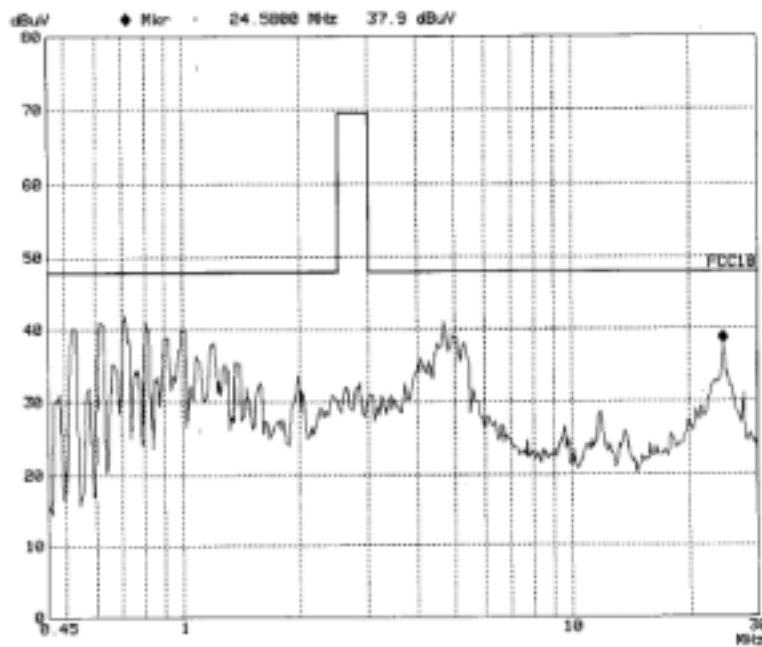


Neutral:



SL20B-120:

Line:



Neutral:

