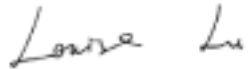
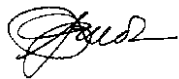


FCC PART 18
EMI MEASUREMENT AND TEST REPORT
For
SHENZHEN SHENSCO PHOLIGHTING TECH CO., LTD

Building L, Jingtie Industry Park, Heao. Henggang, Longgang, Shenzhen, China

FCC ID: T9NFLF2154

August 1, 2006

This Report Concerns: ☒ Original Report	Equipment Type: T5 Low-Profile Linkable Fluorescent Lamp Fixture
Test Engineer: Louise Lu	
Report Number: RSZ06042781	
Test Date: April 30, 2006	
Reviewed By: Boni Baniqued	
Prepared By:	Bay Area Compliance Lab Corp. (ShenZhen) 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone, ShenZhen, Guangdong 518038, P.R.China Tel: +86-755-33320018 Fax: +86-755-33320008

Note: The test report is specially limited to the above company and this particular sample only.
It may not be duplicated without prior written consent of Bay Area Compliance Lab Corp. (ShenZhen). 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.

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The SHENZHEN SHENSCO PHOLIGHTING TECH CO., LTD 's model: EDFT5-154L-MCO, EDFT5-139L-MBO, EDFT5-135L-MDO, EDFT5-128L-MCO, EDFT5-124L-MAO, EDFT5-121L-MBO, or the "EUT" as referred to in this report is a T5 Low-Profile Linkable Fluorescent Lamp Fixture which measures approximately:

EDFT5-154L-MCO: 119.5 cm L x 2.3 cm W x 4.0 cm H

EDFT5-139L-MBO: 87.5 cm L x 2.3 cm W x 4.0 cm H

EDFT5-135L-MDO: 147.5 cm L x 2.3 cm W x 4.0 cm H

EDFT5-128L-MCO: 117.5 cm L x 2.3 cm W x 4.0 cm H

EDFT5-124L-MAO: 57.5 cm L x 2.3 cm W x 4.0 cm H

EDFT5-121L-MBO: 87.5 cm L x 2.3 cm W x 4.0 cm H

rated input voltage: AC 120V/60Hz.

* The test data gathered are from production sample, serial number: 0604228 provided by the manufacturer, we received EUT on 2006-4-27.

Objective

The following test report is prepared on behalf of SHENZHEN SHENSCO PHOLIGHTING TECH 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 measurements were performed at Bay Area Compliance Lab 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 Lab Corp. (ShenZhen) to collect radiated and conducted emission measurement data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone, ShenZhen, GuangDong 518038, P.R.China.

Test site at Bay Area Compliance Lab 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 Live conducted test site criteria set forth in ANSI C63.4-2003 and FCC MP-5.

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 Lab 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/ts/htdocs/210/214/scopes/2007070.htm>

External I/O Cable

Cable Description	Length (M)	From/Port	To
Unshielded detachable Power Cable	1.5	EUT	AC Mains

SYSTEM TEST CONFIGURATION

Justification

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

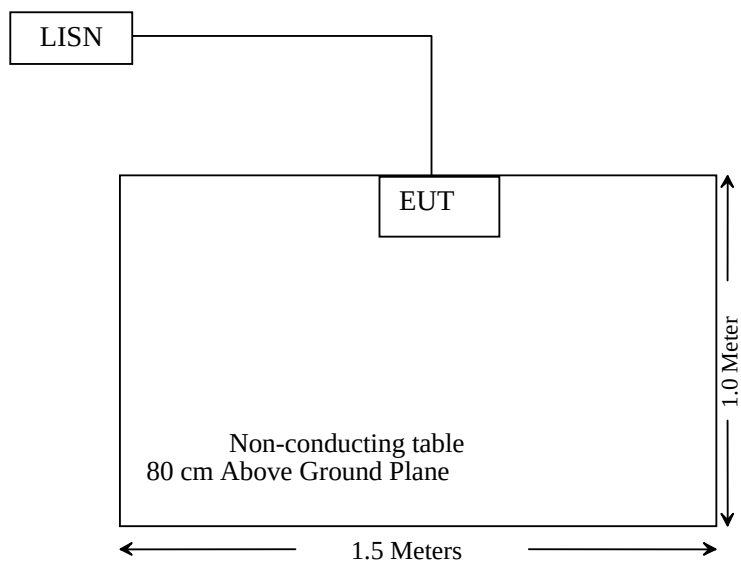
Equipment Modifications

Bay Area Compliance Lab Corp. (ShenZhen) has not done any modification on the EUT.

Configuration of Test Setup



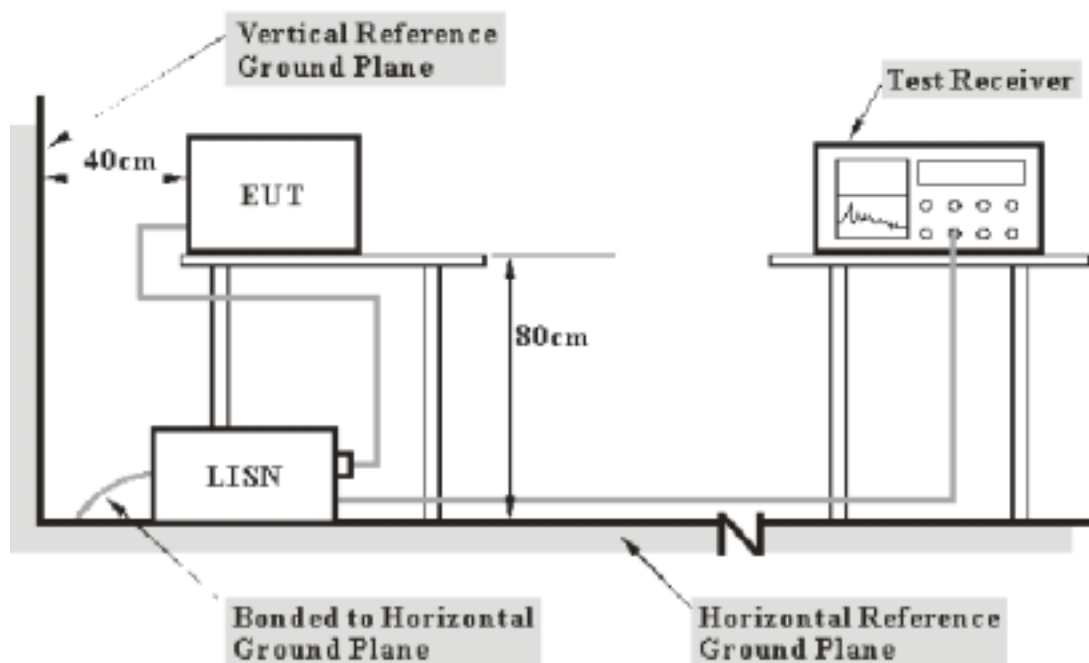
Block Diagram of Test Setup



Measurement Uncertainty

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 Lab 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 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:

<i>Frequency Range</i>	<i>IFBW</i>
450 kHz – 30 MHz	9 kHz

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	12008	N/A	N/A
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2005-8-17	2006-8-17
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2006-2-28	2007-2-28

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

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) 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 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:

*EDFT5-154L-MCO: -3.04 dB at 19.722 MHz in the **Live** conductor mode.*
*EDFT5-139L-MBO: -7.53 dB at 0.458 MHz in the **Live** conductor mode.*
*EDFT5-135L-MDO: -2.65 dB at 19.818 MHz in the **Neutral** conductor mode.*
*EDFT5-128L-MCO: -0.47 dB at 19.758 MHz in the **Live** conductor mode.*
*EDFT5-124L-MAO: -11.21 dB at 0.454 MHz in the **Live** conductor mode.*
*EDFT5-121L-MBO: -7.86 dB at 16.674 MHz in the **Neutral** conductor mode.*

Test Data**Environmental Conditions**

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	940mbar

Testing was performed by Louise Lu on 2006-4-29.

Test mode: On

Model: EDFT5-154L-MCO

Frequency MHz	LIVE CONDUCTED EMISSIONS				FCC Part 18		
	Amplitude (dBμV)	Detector		Phase Neutral/Live	Limit (dBμV)		Margin dB
		QP	AV		QP	AV	
19.722	44.96	QP	*	Live	48.00	N/A	-3.04
20.014	44.81	QP	*	Neutral	48.00	N/A	-3.19
0.486	43.22	QP	*	Neutral	48.00	N/A	-4.78
0.522	42.93	QP	*	Neutral	48.00	N/A	-5.07
0.582	42.34	QP	*	Live	48.00	N/A	-5.66
0.594	41.24	QP	*	Neutral	48.00	N/A	-6.76
0.462	41.20	QP	*	Live	48.00	N/A	-6.80
0.690	40.68	QP	*	Neutral	48.00	N/A	-7.32
0.682	40.59	QP	*	Live	48.00	N/A	-7.41
0.742	40.25	QP	*	Neutral	48.00	N/A	-7.75
2.022	28.81	QP	*	Live	48.00	N/A	-19.19
4.086	25.48	QP	*	Live	48.00	N/A	-22.52

Model: EDFT5-139L-MBO

LIVE CONDUCTED EMISSIONS					FCC Part 18		
Frequency MHz	Amplitude (dBμV)	Detector		Phase Neutral/Live	Limit (dBμV)		Margin dB
		QP	AV		QP	AV	
0.458	40.47	QP	*	Live	48.00	N/A	-7.53
19.918	39.45	QP	*	Neutral	48.00	N/A	-8.55
19.766	39.43	QP	*	Live	48.00	N/A	-8.57
0.450	38.13	QP	*	Neutral	48.00	N/A	-9.87
0.554	37.75	QP	*	Live	48.00	N/A	-10.25
23.150	36.93	QP	*	Live	48.00	N/A	-11.07
23.214	34.92	QP	*	Neutral	48.00	N/A	-13.08
7.898	23.56	QP	*	Neutral	48.00	N/A	-24.44
10.854	23.37	QP	*	Neutral	48.00	N/A	-24.63
10.170	22.40	QP	*	Neutral	48.00	N/A	-25.60
4.002	21.07	QP	*	Live	48.00	N/A	-26.93
4.034	21.06	QP	*	Live	48.00	N/A	-26.94

Model: EDFT5-135L-MDO

LIVE CONDUCTED EMISSIONS					FCC Part 18		
Frequency MHz	Amplitude (dBμV)	Detector		Phase Neutral/Live	Limit (dBμV)		Margin dB
		QP	AV		QP	AV	
19.818	45.35	QP	*	Neutral	48.00	N/A	-2.65
19.734	44.85	QP	*	Live	48.00	N/A	-3.15
0.526	40.44	QP	*	Neutral	48.00	N/A	-7.56
0.538	40.10	QP	*	Live	48.00	N/A	-7.90
0.662	39.03	QP	*	Neutral	48.00	N/A	-8.97
0.494	37.81	QP	*	Live	48.00	N/A	-10.19
0.602	33.32	QP	*	Live	48.00	N/A	-14.68
0.778	33.02	QP	*	Neutral	48.00	N/A	-14.98
1.058	32.08	QP	*	Live	48.00	N/A	-15.92
1.134	30.94	QP	*	Neutral	48.00	N/A	-17.06
0.978	30.75	QP	*	Neutral	48.00	N/A	-17.25
1.254	30.52	QP	*	Live	48.00	N/A	-17.48

Model: EDFT5-128L-MCO

LIVE CONDUCTED EMISSIONS					FCC Part 18		
Frequency MHz	Amplitude (dBμV)	Detector		Phase Neutral/Live	Limit (dBμV)		Margin dB
		QP	AV		QP	AV	
19.758	47.53	QP	*	Live	48.00	N/A	-0.47 *
19.746	47.24	QP	*	Neutral	48.00	N/A	-0.76 *
0.470	38.66	QP	*	Neutral	48.00	N/A	-9.34
0.566	37.46	QP	*	Neutral	48.00	N/A	-10.54
0.654	36.29	QP	*	Neutral	48.00	N/A	-11.71
0.734	35.49	QP	*	Neutral	48.00	N/A	-12.51
0.734	34.55	QP	*	Live	48.00	N/A	-13.45
1.126	30.63	QP	*	Live	48.00	N/A	-17.37
1.282	28.98	QP	*	Neutral	48.00	N/A	-19.02
4.054	28.06	QP	*	Live	48.00	N/A	-19.94
4.142	26.25	QP	*	Live	48.00	N/A	-21.75

Model: EDFT5-124L-MAO

LIVE CONDUCTED EMISSIONS					FCC Part 18		
Frequency MHz	Amplitude (dBμV)	Detector		Phase Neutral/Live	Limit (dBμV)		Margin dB
		QP	AV		QP	AV	
0.454	36.79	QP	*	Live	48.00	N/A	-11.21
0.522	36.36	QP	*	Neutral	48.00	N/A	-11.64
19.638	34.86	QP	*	Live	48.00	N/A	-13.14
0.574	34.64	QP	*	Neutral	48.00	N/A	-13.36
19.786	34.38	QP	*	Neutral	48.00	N/A	-13.62
0.614	34.02	QP	*	Neutral	48.00	N/A	-13.98
0.706	32.06	QP	*	Neutral	48.00	N/A	-15.94
0.494	26.25	QP	*	Neutral	48.00	N/A	-21.75
1.102	26.16	QP	*	Live	48.00	N/A	-21.84
1.230	23.04	QP	*	Live	48.00	N/A	-24.96
4.062	21.39	QP	*	Live	48.00	N/A	-26.61
1.534	20.28	QP	*	Live	48.00	N/A	-27.72

Model: EDFT5-121L-MBO

LIVE CONDUCTED EMISSIONS					FCC Part 18		
Frequency MHz	Amplitude (dBμV)	Detector		Phase Neutral/Live	Limit (dBμV)		Margin dB
		QP	AV		QP	AV	
19.674	40.14	QP	*	Neutral	48.00	N/A	-7.86
19.682	39.28	QP	*	Live	48.00	N/A	-8.72
0.542	38.74	QP	*	Live	48.00	N/A	-9.26
0.726	37.39	QP	*	Neutral	48.00	N/A	-10.61
1.110	30.88	QP	*	Neutral	48.00	N/A	-17.12
2.030	28.58	QP	*	Neutral	48.00	N/A	-19.42
22.590	28.44	QP	*	Neutral	48.00	N/A	-19.56
15.974	28.01	QP	*	Neutral	48.00	N/A	-19.99
2.030	27.91	QP	*	Live	48.00	N/A	-20.09
15.846	27.81	QP	*	Live	48.00	N/A	-20.19
23.250	27.70	QP	*	Live	48.00	N/A	-20.30
9.150	13.78	QP	*	Live	48.00	N/A	-34.22

* Within measurement uncertainty.

REMARKS:

1. If the data table appeared symbol “*” means the value was too low and the QP value is under the limit for Average, so the Average level value had been omitted.