

Finelite, Inc.

TEST REPORT FOR

Desk Lamp, 6910X And Foot Switch Power Supply, 6915X

Tested to the following standards:

FCC Part 15 Subpart B Sections 15.107 and 15.109 Class B

Report No.: 90729-3

Date of issue: May 3, 2010



TESTING
CERT #803.01, 803.02,
803.05, 803.06

This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

Finelite, Inc.
30500 Whipple Road
Union City, CA 94587

REPRESENTATIVE: Susan Lee
Customer Reference Number: 036611-00

DATE OF EQUIPMENT RECEIPT:

DATE(S) OF TESTING:

REPORT PREPARED BY:

Valerie Honsinger
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Project Number: 90729

April 30, 2010

April 30, 2010

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
1120 Fulton Place
Fremont, CA 94539

Site Registration & Accreditation Information

SITE FILE REGISTRATION NUMBERS

Location	JAPAN	CANADA	FCC
Fremont	R-2160, C2332 & T-228	3082B-1	958979

SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart B

Description	Test Procedure/Method	Results
Conducted Emissions	FCC Part 15 Subpart B Section 15.107 Class B / ANSI C63.4 (2003)	PASS
Radiated Emissions	FCC Part 15 Subpart B Section 15.109 Class B / ANSI C63.4 (2003)	PASS

Conditions During Testing

This list is a summary of the conditions noted for or modifications made to the equipment during testing.

Summary of Conditions
None



EQUIPMENT UNDER TEST

The following model has been tested by CKC Laboratories:

Curve Desk Lamp, 6910X and the Foot Switch Power Supply, 6915X

The manufacturer states that the following additional models are identical electrically to the one which was tested, or any differences between them do not affect their EMC characteristics, and therefore they meet the level of testing equivalent to the tested models. Since the time of testing the manufacturer has chosen to use the following device name in its place. The data sheets are screen captures taken at the time of testing and will reflect the wrong device name. Any differences between the names does not affect their EMC characteristics and therefore meets the level of testing equivalent to the tested device name shown on the data sheets.

Desk Lamp, 69100	Foot Switch Power Supply, 69150
Desk Lamp, 69101	Foot Switch Power Supply, 69151
Desk Lamp, 69102	Foot Switch Power Supply, 69152
Desk Lamp, 69103	Foot Switch Power Supply, 69153
Desk Lamp, 69104	Foot Switch Power Supply, 69154
Desk Lamp, 69105	Foot Switch Power Supply, 69155
Desk Lamp, 69106	Foot Switch Power Supply, 69156
Desk Lamp, 69107	Foot Switch Power Supply, 69157
Desk Lamp, 69108	Foot Switch Power Supply, 69158
Desk Lamp, 69109	Foot Switch Power Supply, 69159

The customer further declares they maintain separate part numbers for identical parts that have different locations of manufacture by the last digit (i.e. a desk lamp manufactured in the US might be 69100 whereas one manufactured in Taiwan may be 69101). The "X" indicates any digit from 0-9 where those digits denote the location of the manufacturer.

EQUIPMENT UNDER TEST (EUT)

Desk Lamp

Manuf: Finelite, Inc.
 Model: 6910X
 Serial: None

Foot Switch Power Supply

Manuf: Finelite, Inc.
 Model: 6915X
 Serial: 1410AS0050

PERIPHERAL DEVICES

The EUT was not tested with peripheral devices.

FCC PART 15 SUBPART B

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) 47 CRF 15B requirements for Unlicensed Radio Frequency Devices, Subpart B - Unintentional Radiators.

15.107 AC Conducted Emissions

Test Notes: Conducted Disturbances at Mains Terminals, LISN method.
Test Procedure: ANSI C63.4

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Finelite, Inc.**

Specification: **15.107 AC Mains Class B - Average**

Work Order #: **90729**

Date: 4/30/2010

Test Type: **Conducted Emissions**

Time: 09:56:25

Equipment: **Curve Desk Lamp**

Sequence#: 4

Manufacturer: Finelite, Inc.

Tested By: N. Gamez

Model: 6910X

120V 60Hz

S/N: None

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00493	50uH LISN-Line I Loss w/o Euro Adap	3816/NM	1/27/2010	1/27/2012
	AN00493	50uH LISN-Neut I Loss w/o Euro Adap	3816/NM	1/27/2010	1/27/2012
T2	ANP01211	Attenuator	23-10-34	5/18/2009	5/18/2011
T3	ANP05440	Cable	None	1/18/2010	1/18/2012
T4	ANP05300	Cable	RG214/U	3/6/2009	3/6/2011
T5	ANP05258	High Pass Filter	HE9615-150K-50-720B	12/18/2008	12/18/2010

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Curve Desk Lamp*	Finelite, Inc.	6910X	None
Foot Switch Power Supply*	Finelite, Inc.	6915X	1410AS0050

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

The EUT is a curve desk lamp with footswitch power supply. The curve desk lamp gets 24VDC from the foot switch power supply which runs off 120V/60Hz.
 FC-3
 Standard FCC 15.107 Class B
 Conducted Emissions 0.15-30MHz
 Temperature: 19°C
 Humidity: 33%
 Atmospheric Pressure: 103.1kPa
 Notes:

Ext Attn: 0 dB

Measurement Data:

Reading listed by margin.

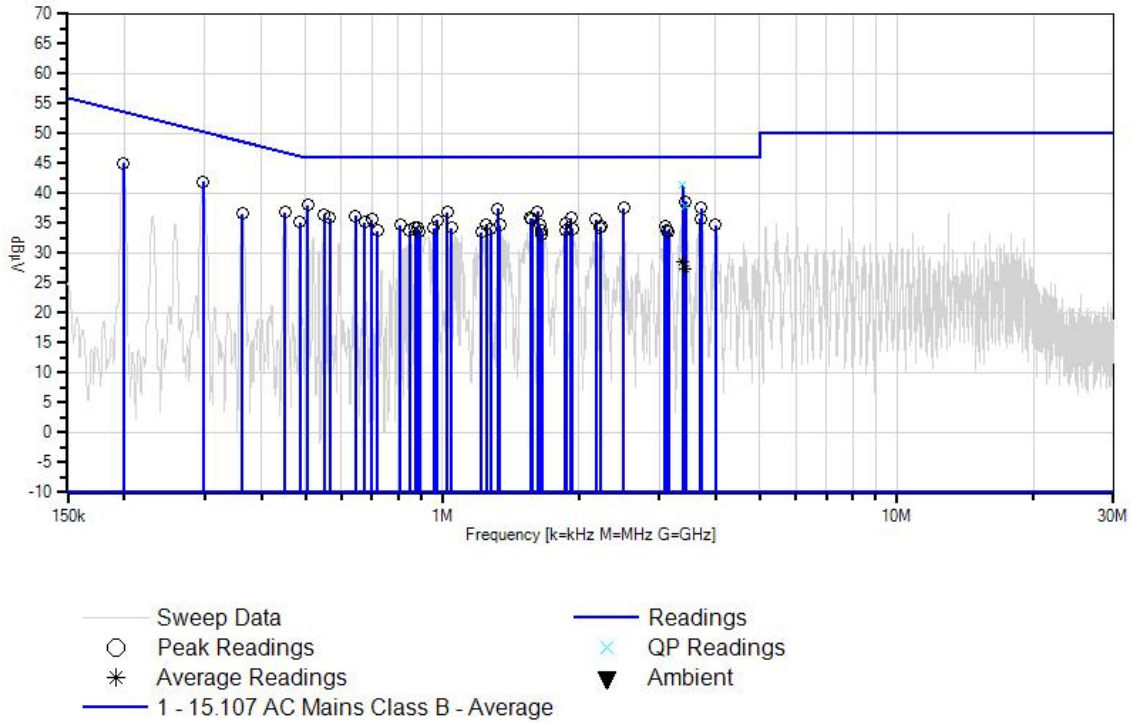
Test Lead: Line

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	3.429M	28.3	+0.1 +0.1	+9.8	+0.1	+0.2	+0.0	38.6	46.0	-7.4	Black
2	506.331k	27.8	+0.1 +0.0	+9.8	+0.1	+0.2	+0.0	38.0	46.0	-8.0	Black
3	297.623k	31.6	+0.0 +0.2	+10.0	+0.0	+0.2	+0.0	42.0	50.3	-8.3	Black
4	2.506M	27.1	+0.1 +0.1	+9.9	+0.1	+0.2	+0.0	37.5	46.0	-8.5	Black
5	3.718M	27.3	+0.0 +0.1	+9.8	+0.1	+0.2	+0.0	37.5	46.0	-8.5	Black
6	198.723k	34.6	+0.1 +0.1	+10.0	+0.1	+0.2	+0.0	45.1	53.7	-8.6	Black
7	1.324M	27.2	+0.0 +0.1	+9.9	+0.0	+0.2	+0.0	37.4	46.0	-8.6	Black
8	1.621M	26.7	+0.1 +0.1	+9.9	+0.0	+0.2	+0.0	37.0	46.0	-9.0	Black
9	1.026M	26.8	+0.0 +0.1	+9.8	+0.1	+0.1	+0.0	36.9	46.0	-9.1	Black
10	549.236k	26.5	+0.0 +0.0	+9.8	+0.0	+0.2	+0.0	36.5	46.0	-9.5	Black
11	643.773k	26.1	+0.1 +0.0	+9.8	+0.0	+0.3	+0.0	36.3	46.0	-9.7	Black
12	565.962k	26.0	+0.0 +0.0	+9.8	+0.0	+0.1	+0.0	35.9	46.0	-10.1	Black
13	450.336k	26.8	+0.0 +0.0	+9.8	+0.0	+0.2	+0.0	36.8	46.9	-10.1	Black

14	1.923M	25.4	+0.1 +0.1	+10.0	+0.2	+0.1	+0.0	35.9	46.0	-10.1	Black
15	1.566M	25.6	+0.1 +0.1	+9.9	+0.1	+0.1	+0.0	35.9	46.0	-10.1	Black
16	1.575M	25.5	+0.1 +0.1	+9.9	+0.1	+0.1	+0.0	35.8	46.0	-10.2	Black
17	3.697M	25.6	+0.0 +0.1	+9.8	+0.1	+0.2	+0.0	35.8	46.0	-10.2	Black
18	699.041k	25.7	+0.0 +0.0	+9.8	+0.0	+0.1	+0.0	35.6	46.0	-10.4	Black
19	2.179M	25.1	+0.1 +0.1	+10.0	+0.1	+0.2	+0.0	35.6	46.0	-10.4	Black
20	975.018k	25.4	+0.0 +0.1	+9.8	+0.1	+0.1	+0.0	35.5	46.0	-10.5	Black
21	674.316k	25.2	+0.1 +0.0	+9.8	+0.0	+0.1	+0.0	35.2	46.0	-10.8	Black
22	486.696k	25.2	+0.1 +0.0	+9.8	+0.0	+0.1	+0.0	35.2	46.2	-11.0	Black
23	1.877M	24.5	+0.1 +0.1	+10.0	+0.1	+0.2	+0.0	35.0	46.0	-11.0	Black
24	1.638M	24.4	+0.1 +0.1	+9.9	+0.0	+0.2	+0.0	34.7	46.0	-11.3	Black
25	3.994M	24.5	+0.0 +0.1	+9.8	+0.1	+0.2	+0.0	34.7	46.0	-11.3	Black
26	809.576k	24.6	+0.0 +0.1	+9.8	+0.1	+0.1	+0.0	34.7	46.0	-11.3	Black
27	1.251M	24.4	+0.0 +0.1	+9.9	+0.1	+0.2	+0.0	34.7	46.0	-11.3	Black
28	1.341M	24.4	+0.0 +0.1	+9.9	+0.1	+0.2	+0.0	34.7	46.0	-11.3	Black
29	3.097M	24.4	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	34.6	46.0	-11.4	Black
30	2.238M	24.0	+0.1 +0.1	+9.9	+0.1	+0.3	+0.0	34.5	46.0	-11.5	Black
31	881.458k	24.3	+0.0 +0.1	+9.8	+0.1	+0.1	+0.0	34.4	46.0	-11.6	Black
32	871.388k	24.2	+0.0 +0.1	+9.8	+0.1	+0.1	+0.0	34.3	46.0	-11.7	Black
33	2.225M	23.9	+0.1 +0.1	+9.9	+0.1	+0.2	+0.0	34.3	46.0	-11.7	Black
34	958.007k	24.0	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	34.2	46.0	-11.8	Black
35	1.047M	24.1	+0.0 +0.1	+9.8	+0.1	+0.1	+0.0	34.2	46.0	-11.8	Black
36	1.936M	23.6	+0.1 +0.1	+10.0	+0.2	+0.1	+0.0	34.1	46.0	-11.9	Black
37	363.799k	26.3	+0.0 +0.1	+9.9	+0.1	+0.2	+0.0	36.6	48.6	-12.0	Black

38	1.277M	23.8	+0.0 +0.1	+9.9	+0.0	+0.2	+0.0	34.0	46.0	-12.0	Black
39	1.660M	23.5	+0.1 +0.1	+9.9	+0.0	+0.2	+0.0	33.8	46.0	-12.2	Black
40	1.868M	23.3	+0.1 +0.1	+10.0	+0.1	+0.2	+0.0	33.8	46.0	-12.2	Black
41	720.130k	23.7	+0.0 +0.0	+9.8	+0.0	+0.2	+0.0	33.7	46.0	-12.3	Black
42	847.391k	23.6	+0.0 +0.1	+9.8	+0.1	+0.1	+0.0	33.7	46.0	-12.3	Black
43	3.114M	23.5	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	33.7	46.0	-12.3	Black
44	3.152M	23.4	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	33.6	46.0	-12.4	Black
45	889.963k	23.3	+0.0 +0.1	+9.8	+0.1	+0.2	+0.0	33.5	46.0	-12.5	Black
46	1.222M	23.2	+0.0 +0.1	+9.9	+0.1	+0.2	+0.0	33.5	46.0	-12.5	Black
47	1.651M	22.9	+0.1 +0.1	+9.9	+0.0	+0.2	+0.0	33.2	46.0	-12.8	Black
48	3.386M	31.1	+0.1 +0.1	+9.8	+0.1	+0.2	+0.0	41.4	56.0	-14.6	Black
49	3.386M	18.3	+0.1 +0.1	+9.8	+0.1	+0.2	+0.0	28.6	46.0	-17.4	Black
^	3.386M	33.5	+0.1 +0.1	+9.8	+0.1	+0.2	+0.0	43.8	46.0	-2.2	Black
^	3.386M	26.4	+0.1 +0.1	+9.8	+0.1	+0.2	+0.0	36.7	46.0	-9.3	Black
52	3.418M	27.5	+0.1 +0.1	+9.8	+0.1	+0.2	+0.0	37.8	56.0	-18.2	Black
53	3.418M	17.0	+0.1 +0.1	+9.8	+0.1	+0.2	+0.0	27.3	46.0	-18.7	Black
^	3.418M	30.2	+0.1 +0.1	+9.8	+0.1	+0.2	+0.0	40.5	46.0	-5.5	Black

CKC Laboratories, Inc. Date: 4/30/2010 Time: 09:56:25 Finelite, Inc. WO#: 90729
15.107 AC Mains Class B - Average Test Lead: Line 120V 60Hz Sequence#: 4 Line





Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Finelite, Inc.**
 Specification: **15.107 AC Mains Class B - Average**
 Work Order #: **90729**
 Test Type: **Conducted Emissions**
 Equipment: **Curve Desk Lamp**
 Manufacturer: Finelite, Inc.
 Model: 6910X
 S/N: None

Date: 4/30/2010
 Time: 9:59:32 AM
 Sequence#: 5
 Tested By: N. Gamez
 120V 60Hz

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN00493	50uH LISN-Line I Loss w/o Euro Adap	3816/NM	1/27/2010	1/27/2012
T1	AN00493	50uH LISN-Neut I Loss w/o Euro Adap	3816/NM	1/27/2010	1/27/2012
T2	ANP01211	Attenuator	23-10-34	5/18/2009	5/18/2011
T3	ANP05440	Cable		1/18/2010	1/18/2012
T4	ANP05300	Cable	RG214/U	3/6/2009	3/6/2011
T5	ANP05258	High Pass Filter	HE9615-150K-50-720B	12/18/2008	12/18/2010

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Curve Desk Lamp*	Finelite, Inc.	6910X	None
Foot Switch Power Supply*	Finelite, Inc.	6915X	1410AS0050

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

The EUT is a curve desk lamp with footswitch power supply. The curve desk lamp gets 24VDC from the foot switch power supply which runs off 120V/60Hz.
 FC-3
 Standard FCC 15.107 Class B
 Conducted Emissions 0.15-30MHz
 Temperature: 19°C
 Humidity: 33%
 Atmospheric Pressure: 103.1kPa
 Notes:

Ext Attn: 0 dB

Measurement Data:

Reading listed by margin.

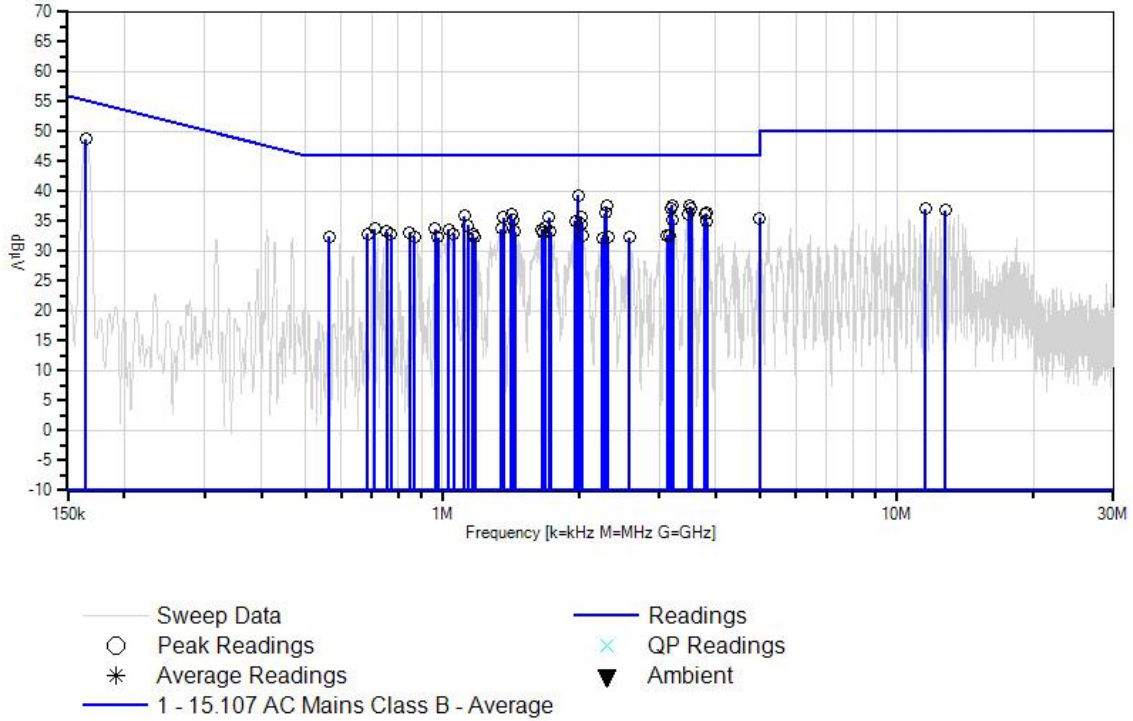
Test Lead: Neutral

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	dB	dB	dB	dB	Table	dB μ V	dB μ V	dB	Ant
1	164.543k	38.2	+0.0 +0.4	+9.9	+0.1	+0.2	+0.0	48.8	55.2	-6.4	Neutr
2	1.991M	28.8	+0.1 +0.1	+10.0	+0.1	+0.2	+0.0	39.3	46.0	-6.7	Neutr
3	3.208M	27.5	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	37.7	46.0	-8.3	Neutr
4	2.298M	27.1	+0.1 +0.1	+9.9	+0.1	+0.3	+0.0	37.6	46.0	-8.4	Neutr

5	3.510M	27.4	+0.0 +0.1	+9.8	+0.1	+0.2	+0.0	37.6	46.0	-8.4	Neutr
6	3.182M	27.0	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	37.2	46.0	-8.8	Neutr
7	3.527M	27.0	+0.0 +0.1	+9.8	+0.1	+0.2	+0.0	37.2	46.0	-8.8	Neutr
8	2.281M	25.9	+0.1 +0.1	+9.9	+0.1	+0.3	+0.0	36.4	46.0	-9.6	Neutr
9	3.812M	26.2	+0.0 +0.1	+9.8	+0.1	+0.2	+0.0	36.4	46.0	-9.6	Neutr
10	1.417M	25.9	+0.1 +0.1	+9.9	+0.1	+0.2	+0.0	36.3	46.0	-9.7	Neutr
11	3.484M	26.0	+0.0 +0.1	+9.8	+0.1	+0.2	+0.0	36.2	46.0	-9.8	Neutr
12	3.786M	25.9	+0.0 +0.1	+9.8	+0.1	+0.2	+0.0	36.1	46.0	-9.9	Neutr
13	1.120M	25.7	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	35.9	46.0	-10.1	Neutr
14	2.017M	25.3	+0.1 +0.1	+10.0	+0.1	+0.2	+0.0	35.8	46.0	-10.2	Neutr
15	1.715M	25.3	+0.1 +0.1	+10.0	+0.1	+0.1	+0.0	35.7	46.0	-10.3	Neutr
16	1.362M	25.2	+0.1 +0.1	+9.9	+0.1	+0.2	+0.0	35.6	46.0	-10.4	Neutr
17	4.998M	25.1	+0.0 +0.1	+10.0	+0.1	+0.2	+0.0	35.5	46.0	-10.5	Neutr
18	1.434M	24.9	+0.1 +0.1	+9.9	+0.1	+0.2	+0.0	35.3	46.0	-10.7	Neutr
19	3.220M	25.1	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	35.3	46.0	-10.7	Neutr
20	1.966M	24.6	+0.1 +0.1	+10.0	+0.1	+0.1	+0.0	35.0	46.0	-11.0	Neutr
21	3.820M	24.7	+0.0 +0.1	+9.8	+0.1	+0.2	+0.0	34.9	46.0	-11.1	Neutr
22	2.030M	24.2	+0.1 +0.1	+10.0	+0.0	+0.2	+0.0	34.6	46.0	-11.4	Neutr
23	1.141M	24.1	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	34.3	46.0	-11.7	Neutr
24	1.689M	23.7	+0.1 +0.1	+10.0	+0.1	+0.1	+0.0	34.1	46.0	-11.9	Neutr
25	709.948k	23.8	+0.0 +0.0	+9.8	+0.0	+0.2	+0.0	33.8	46.0	-12.2	Neutr
26	966.512k	23.5	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	33.7	46.0	-12.3	Neutr
27	1.349M	23.3	+0.1 +0.1	+9.9	+0.1	+0.2	+0.0	33.7	46.0	-12.3	Neutr
28	1.035M	23.4	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	33.6	46.0	-12.4	Neutr

29	1.655M	23.3	+0.1 +0.1	+9.9	+0.0	+0.2	+0.0	33.6	46.0	-12.4	Neutr
30	755.034k	23.2	+0.0 +0.1	+9.8	+0.1	+0.1	+0.0	33.3	46.0	-12.7	Neutr
31	1.447M	22.9	+0.1 +0.1	+9.9	+0.1	+0.2	+0.0	33.3	46.0	-12.7	Neutr
32	1.732M	22.9	+0.1 +0.1	+10.0	+0.1	+0.1	+0.0	33.3	46.0	-12.7	Neutr
33	848.844k	23.0	+0.0 +0.1	+9.8	+0.1	+0.1	+0.0	33.1	46.0	-12.9	Neutr
34	1.664M	22.8	+0.1 +0.1	+9.9	+0.0	+0.2	+0.0	33.1	46.0	-12.9	Neutr
35	11.562M	26.7	+0.1 +0.1	+9.8	+0.2	+0.2	+0.0	37.1	50.0	-12.9	Neutr
36	1.060M	22.6	+0.1 +0.1	+9.8	+0.1	+0.2	+0.0	32.9	46.0	-13.1	Neutr
37	684.495k	23.0	+0.0 +0.0	+9.8	+0.0	+0.1	+0.0	32.9	46.0	-13.1	Neutr
38	12.779M	26.5	+0.0 +0.1	+9.8	+0.2	+0.3	+0.0	36.9	50.0	-13.1	Neutr
39	1.166M	22.7	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	32.9	46.0	-13.1	Neutr
40	771.033k	22.7	+0.0 +0.1	+9.8	+0.1	+0.1	+0.0	32.8	46.0	-13.2	Neutr
41	2.038M	22.3	+0.1 +0.1	+10.0	+0.0	+0.2	+0.0	32.7	46.0	-13.3	Neutr
42	3.123M	22.5	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	32.7	46.0	-13.3	Neutr
43	3.161M	22.5	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	32.7	46.0	-13.3	Neutr
44	564.506k	22.6	+0.0 +0.0	+9.8	+0.0	+0.1	+0.0	32.5	46.0	-13.5	Neutr
45	868.479k	22.3	+0.0 +0.1	+9.8	+0.1	+0.1	+0.0	32.4	46.0	-13.6	Neutr
46	1.179M	22.1	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	32.3	46.0	-13.7	Neutr
47	979.270k	22.1	+0.1 +0.1	+9.8	+0.1	+0.1	+0.0	32.3	46.0	-13.7	Neutr
48	2.583M	21.9	+0.1 +0.1	+9.9	+0.2	+0.1	+0.0	32.3	46.0	-13.7	Neutr
49	2.315M	21.8	+0.1 +0.1	+9.9	+0.1	+0.3	+0.0	32.3	46.0	-13.7	Neutr
50	2.251M	21.7	+0.1 +0.1	+9.9	+0.1	+0.3	+0.0	32.2	46.0	-13.8	Neutr

CKC Laboratories, Inc. Date: 4/30/2010 Time: 9:59:32 AM Finelite, Inc. WO#: 90729
15.107 AC Mains Class B - Average Test Lead: Neutral 120V 60Hz Sequence#: 5 Neutral



Test Setup Photos



Mains Conducted Emissions - Front View



Mains Conducted Emissions - Side View

15.109 Radiated Emissions

Test Notes: Radiated disturbances emanating from enclosure.
 Test Procedure: ANSI C63.4

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place. • Fremont, CA 94539 • (510) 249-1170

Customer: **Finelite, Inc.**
 Specification: **15.109 Radiated Emissions Class B**
 Work Order #: **90729** Date: 4/30/2010
 Test Type: **Maximized Emissions** Time: 09:12:27
 Equipment: **Curve Desk Lamp** Sequence#: 3
 Manufacturer: Finelite, Inc. Tested By: N. Gamez
 Model: 6910X
 S/N: None

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00852	Biconilog Antenna	CBL 6111C	12/22/2008	12/22/2010
T2	AN00730	Preamp	8447D	2/9/2009	2/9/2011
T3	ANP05299	Cable	RG214	3/6/2009	3/6/2011
T4	ANP05300	Cable	RG214/U	3/6/2009	3/6/2011
T5	ANP05440	Cable		1/18/2010	1/18/2012

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Curve Desk Lamp*	Finelite, Inc.	6910X	None
Foot Switch Power Supply	Finelite, Inc.	6915X	1410AS0050

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

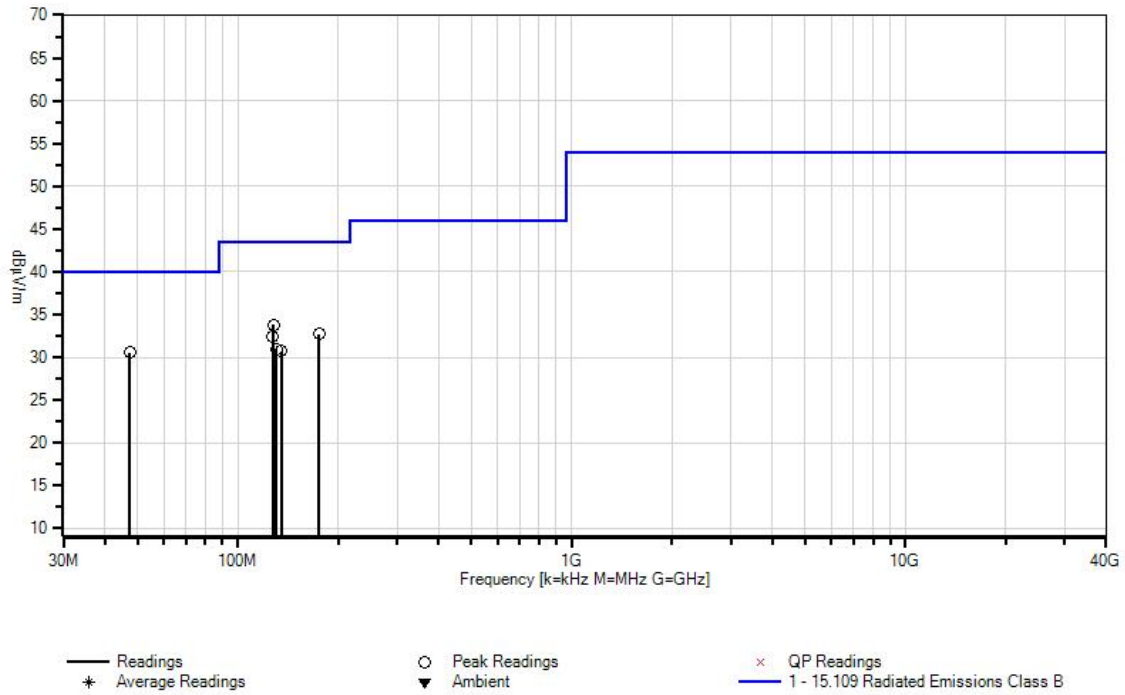
The EUT is a curve desk lamp with footswitch power supply. The curve desk lamp gets 24VDC from the foot switch power supply which runs off 120V/60Hz.
 FC-3
 Standard FCC 15.109 Class B
 Radiated Emissions 30-1000MHz
 Temperature: 19°C
 Humidity: 33%
 Atmospheric Pressure: 103.1kPa
 Notes:

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	47.414M	47.3	+9.8 +0.4	-27.3	+0.1	+0.3	+0.0	30.6	40.0	-9.4	Vert 128
2	127.980M	48.5	+11.5 +0.6	-27.3	+0.1	+0.4	+0.0	33.8	43.5	-9.7	Vert 128
3	175.228M	49.5	+9.1 +0.6	-27.2	+0.1	+0.6	+0.0	32.7	43.5	-10.8	Vert 128
4	127.380M	47.1	+11.5 +0.6	-27.3	+0.1	+0.4	+0.0	32.4	43.5	-11.1	Horiz 130
5	130.783M	45.5	+11.5 +0.6	-27.3	+0.2	+0.5	+0.0	31.0	43.5	-12.5	Horiz 130
6	134.787M	45.2	+11.5 +0.6	-27.3	+0.2	+0.5	+0.0	30.7	43.5	-12.8	Horiz 130

CKC Laboratories, Inc. Date: 4/30/2010 Time: 09:12:27 Finelite, Inc. WO#: 90729
 15.109 Radiated Emissions Class B Test Distance: 3 Meters Sequence#: 3 Horiz
 Horiz



Test Setup Photos



Radiated Emissions - Front View



Radiated Emissions - Back View

SUPPLEMENTAL INFORMATION

Measurement Uncertainty

Uncertainty Value	Parameter
4.73 dB	Radiated Emissions
3.34 dB	Mains Conducted Emissions
3.30 dB	Disturbance Power

The reported measurement uncertainties are calculated based on the worst case of all laboratory environments from CKC Laboratories, Inc. test sites. Only those parameters which require estimation of measurement uncertainty are reported. The reported worst case measurement uncertainty is less than the maximum values derived in CISPR 16-4-2. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2. Compliance is deemed to occur provided measurements are below the specified limits.

Emissions Test Details

TESTING PARAMETERS

The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dBµV/m, the spectrum analyzer reading in dBµV was corrected by using the following formula. This reading was then compared to the applicable specification limit.

SAMPLE CALCULATIONS		
	Meter reading	(dB μ V)
+	Antenna Factor	(dB)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dB μ V/m)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. The following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used. When conducted emissions testing was performed, a 10 dB external attenuator was used with internal offset correction in the analyzer.

MEASURING EQUIPMENT BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
CONDUCTED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the highest readings, this is indicated as a "QP" or an "Ave" on the appropriate rows of the data sheets. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer/receiver readings recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the measuring device called "peak hold," the measuring device had the ability to measure transients or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the quasi-peak detector.

Average

For certain frequencies, average measurements may be made using the spectrum analyzer/receiver. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.