

Verification Test Report

For a
Circle Lamp

Manufacturer:

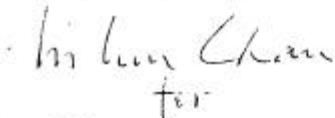
Technical Consumer Products, Inc.
300 Lena Drive
Aurora, OH 44202

Testing Facility:

F-Squared Laboratories
10880 Moxley Road
Damascus, MD 20872

The Circle Lamp, model EC-40, has been tested and found to comply with the requirements of the Federal Communications Commission outlined in the Federal Register CFR 47, Part 18 for Class A Equipment. The product was received on May 18, 2000 and the testing was completed on May 18, 2000.

Evaluation Conducted By:


Frank Gonzales
EMC Test Engineer

Report Reviewed By:


Rob Pellizze
Vice President



F-Squared Laboratories
9890A Main Street
Damascus, MD 20872
(301) 253 - 4500
Fax: (301) 253 - 5179

This report shall not be duplicated except in full without the written approval of F-Squared Laboratories

Client: Technical Consumer Products, Inc.

Model: EC-40

Report No.: CLE092800-01

Issue Date: 10/30/00

Revision Date: 05/04/01

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Exhibit I

Engineering Statement

This report has been prepared on behalf of Technical Consumer Products, Inc. to provide documentation for the testing described herein. This equipment has been tested and found to comply with Part 18 of the FCC Rules using ANSI C63.4 1992 standards. The test results found in this test report relate only to the items tested.

EQUIPMENT UNDER TEST:	Circle Lamp Trade Name: Technical Consumer Products, Inc. Model #: EC-40 Power Supply: 110VAC
APPLICABLE RULES:	CFR 47 Part 18
EQUIPMENT CATEGORY:	Circle Lamp
MEASUREMENT LOCATION:	F-Squared Laboratories in Damascus, MD. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.
MEASUREMENT PROCEDURE:	All measurements were performed according to the 1992 version of ANSI C63.4. A list of the measurement equipment can be found in Exhibit II.
A2LA STATEMENT:	This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this test report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report.
A2LA CERTIFICATE NUMBER:	793.01

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UNCERTAINTY BUDGET:

- Conducted Emission
Combined Uncertainty (+ or -) 1.13 dB
Expanded Uncertainty (+ or -) 2.26 dB

ENGINEERING STATEMENT:

I hereby state that: The measurements shown in this application were made in accordance with the procedures indicated and the energy emitted by this equipment was found to be within the limits. I assume full responsibility for the accuracy and completeness of these measurements.

I further state that: On the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of Part 18 of the FCC Rules under normal use and maintenance.

Certified by: __



Rob Pellizze, Vice President

Client: Technical Consumer Products, Inc.

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Exhibit II

List of Measurement Instrumentation

Equipment Type	Manufacturer	Model #	Serial #	Calibration Due Date
Receiver System	Rohde & Schwarz	ESMI	DE23119	Feb. 2001
LISN #1	Solar	8012-50-R-24-BNC	910488	Feb. 2001
LISN #2	Solar	8012-50-R-24-BNC	933201	Feb. 2001
Biconical Antenna	Compliance Design, Inc.	B100	386	Jan. 2001
Biconical Antenna	Compliance Design, Inc.	B200	292	Jan. 2001
Biconical Antenna	Compliance Design, Inc.	B300	318	Jan. 2001
Horn Antenna	Antenna Research Associates	DRG-118/A	1105	Jan. 2001
Antenna Mast	Compliance Design, Inc.	M100	NA	NA
Amplifier	HP	8447F	3113A04704	Aug. 2001
Turntable	F-Squared Laboratories	Site 1	NA	NA
Spectrum Analyzer	HP	8391A	3149A07546	Feb. 2001

Exhibit III

Equipment Under Test Information and Data

TEST ITEM CONDITION:	The equipment to be tested was received in good condition.
TESTING ALGORITHM:	The Circle Lamp was powered on during the test. The highest emissions were recorded in the data tables.
CONDUCTED EMISSION TESTING:	The EUT was placed on a 0.8 meter high, 1 X 1.5 meter non-conductive table. Power was provided to the EUT through a LISN bonded to a 3 X 2 meter ground plane. The LISN and peripherals were supplied power through a filtered AC power source. The output of the LISN was connected to the input of the receiver and emissions in the range 150kHz to 30 MHz were measured. The measurements were recorded using the quasi-peak values, and the resolution bandwidth during testing was 9kHz. All data for conducted emissions is found in Exhibit V.

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EUT Configuration and Cables

EUT:

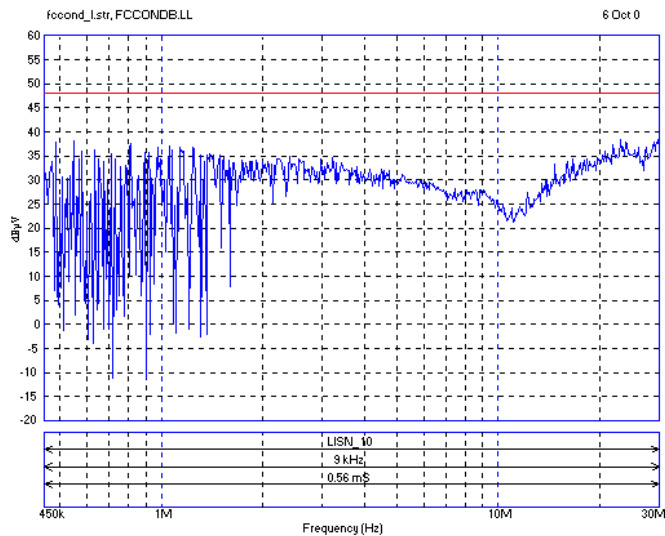
Device	Manufacturer	Model #
Circle Lamp	Technical Consumer Products, Inc.	EC-40

Cable: All one meter or greater in length – bundled according to ANSI C63.4 – 1992.

EUT: Power - Shielded

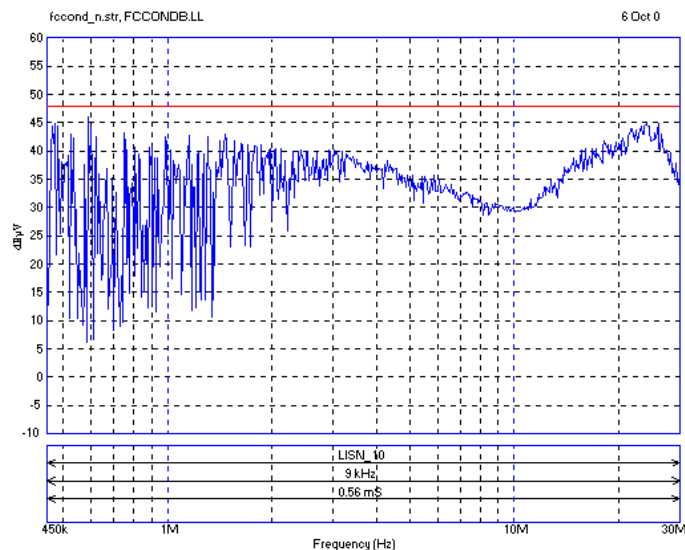
Exhibit V

Conducted Test Line: **Phase**



QP Detected Value	
Frequency	Level
MHz	dBμV
0.59	42.70
0.60	41.10
0.75	41.10
0.77	42.50
0.81	41.30
0.90	40.60

Conducted Test Line: **Neutral**



QP Detected Value	
Frequency	Level
MHz	dBμV
0.55	41.60
0.57	41.60
0.64	41.10
7.11	41.10
0.81	41.30
1.24	40.10

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Exhibit VI



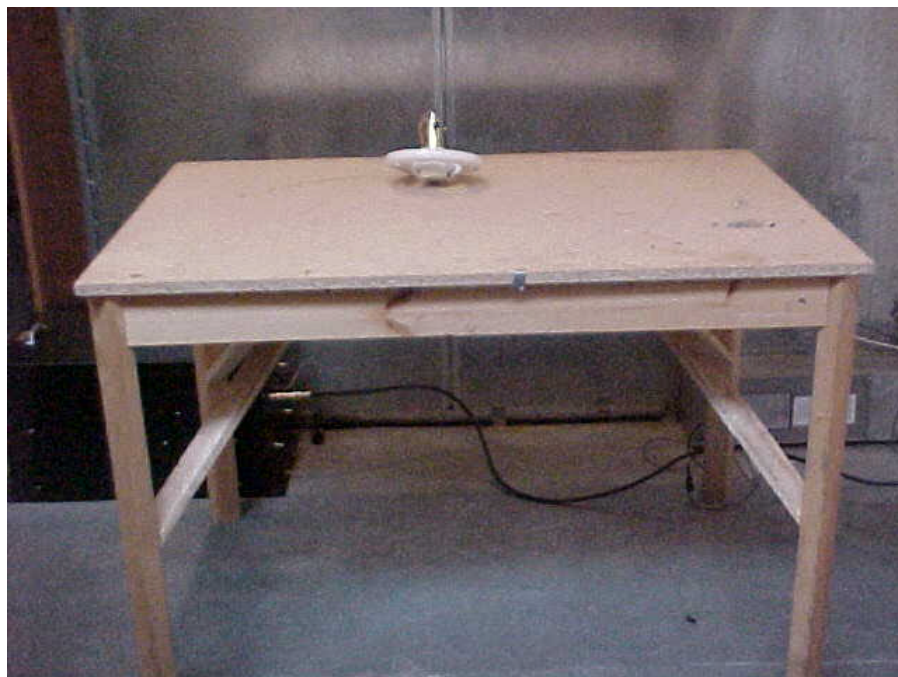
TEST SET-UP

&

EUT

PHOTOS

CONDUCTED TEST – *Front View*



CONDUCTED TEST – *Back View*



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Exhibit VII

Modifications

EUT COMPLIES

WITHOUT MODIFICATIONS

Exhibit VIII

Labeling of Equipment

It will be the responsibility of the manufacturer or importer to permanently affix the appropriate label when marketing the equipment.

The label shall be located in a conspicuous location on the device and shall contain the unique identification described in Section 2.954 which reads as follows:

Identification: Section 2.954

Devices subject only to Verification shall be uniquely identified by the responsible party. This identification shall not be of a format which could be confused with the FCC Identifier on certified, notified, type accepted or type approved equipment. The responsible party shall maintain adequate identification records to facilitate positive identification for each device.

The label shall bear the following statement:

*Operation of this equipment is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.*