

REPORT



3933 US ROUTE 11 CORTLAND, NEW YORK 13045

Order No. 3090086

Date: February 16, 2006

REPORT NO. 3090086CRT-001g

PHOTOMETRIC TEST OF ONE FLOOR LAMP

RENDERED TO

FULL SPECTRUM SOLUTIONS 712 EAST SOUTH STREET JACKSON, MI 49203

DATA REQUESTED

The client requested electrical measurements, illumination tests, color rendering index, color temperature and chromaticity coordinates of a Floor Lamp sample in accordance with selected ANSI Specifications and IESNA Test Measurement Guides.

AUTHORIZATION

This test service was authorized by signed quote number 19050999.

REFERENCE DOCUMENTS: The following I

The following Illuminating Engineering Society of North American Test

Guides were used in part or totally to test each specimen:

IESNA LM 58:

Guide for Spectrophotometric Measurements

ANSI C82.1:

Specifications for Fluorescent Lamp Ballasts and/or ANSI C82.11:

High Frequency Fluorescent Lamp Ballasts

DEVICES SUBMITTED

Intertek procured the test sample on January 23, 2006 in undamaged condition, and the sample was tested after the sample was seasoned. The sample designation is F3006Z.

DATES OF TESTS

February 6, 2006 through February 10, 2006.

An independent organization testing for safety, performance, and certification.

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Calibration Date
Optroninc Spectroradiometer	OL750D	E288	Before Use
Intertek Two Meter Integrating Sphere		N308	Before Use
LaCroy Oscilloscope	9354AL	E310	02/24/05
UDT Illumination Meter	371R	L060	11/15/05
Fluke Multmeter	PM2425	M127	06/24/05
Optronic Spectral Irradiance Standard	FEL	F731	03/30/03
Xitron Power Analyzer	2502AH	E235	06/03/05

TESTS AND TEST METHODS

The electrical circuitry used in the measurements performed on each fluorescent lamp and ballast combination complied with the requirements stated in ANSI C82.2. The test sample, lamp, and light output were allowed to stabilize prior to making any measurements.

Lamp Current Measurement - High Frequency Ballast

The rated input voltage and frequency was applied to the test specimen under the specified load condition. The rms current was measured for each lamp using a current transformer connected to the Xitron Power Analyzer. The peak current was measured using current transformers connected to an oscilloscope. The current crest factor was calculated by dividing the maximum peak current by the rms current.

Color Measurements

Spectral irradiance measurements were conducted with an Optronic spectroradiometer at a distance where the illumination from the test sample was 10000 lux. Color rendering Index, color temperature and chromaticity coordinates were computed based on the spectral irradiance data.

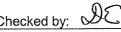
Calibration of the spectroradiometer is traceable to the National Institute of Standards and Technology. The ambient temperature during the test was $77 \pm 5^{\circ}$ F. The test sample was operated at 120 volts A.C. during the tests. The input electrical parameters to each unit were recorded by the Xitron Power Analyzer.

Sample Description

Type of Fixture: Floor Lamp

Type of Light Source: Fluorescent Lamp - CFL 18W

Type of Ballast: Magnetic Number of Light Sources: One



RESULTS OF TEST

Electrical Measurements

		Input	Input			
Sample	Input	Current	Power	Ballast	Lamp Current	Current Crest
Designation	Voltage	(amps)	(watts)	Frequency	(Amps)	Factor
***************************************			Floor	Lamp		
F3006Z	120.0	0.325	21.18	60kHz	0.305	1.62
Nominal Value	-	***	~	-	0.360	1.7 Max

Photometric and Spectrophotmetric Measurements

Sample	Illumination	Color	Color Rendering	Chromaticity Coordinates				
Designation	(Lux)	Temperature Index		X	У			
Floor Lamp								
F3006Z	10000	5495k	89.00	0.333	0.378			

CONCLUSION

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

In Charge Of Tests:

David Ellis
Senior Project Engineer
Photometric Testing

Attachment: None

Report Reviewed By:

Ernest Dykeman Senior Project Engineer

Photometric Testing