



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

toll-free: (866) 311-3268

fax: (480) 926-3598

<http://www.ComplianceTesting.com>

info@ComplianceTesting.com

Test Report

Prepared for: Robert Bosch, LLC

Model: CLN-ILB Ballast

Description: 2.4 GHz Transmitter

To

FCC Part 1.1310

Date of Issue: November 4, 2013

On the behalf of the applicant:

Robert Bosch, LLC
15000 North Haggerty Road
Plymouth, MI 48170

Attention of:

Steven Gladstein, Engineering Manager
Ph: (734) 979-3035
E-Mail: steve.gladstein@us.bosch.com

Prepared By
Compliance Testing, LLC
3356 N San Marcos Pl, Suite 107
Chandler, AZ 85225-7176
(866) 311-3268 phone / (480) 926-3598 fax
www.compliancetesting.com
Project No: p1310002

Alex Macon
Project Test Engineer

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All results contained herein relate only to the sample tested



Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	September 20, 2013	Alex Macon	Original Document
2.0	November 4, 2013	Alex Macon	Updated numeric gain and calculation



ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)

The tests results contained within this test report all fall within our scope of accreditation, unless noted below.

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

Testing Certificate Number: **2152.01**



FCC OATS Reg, #933597

IC Reg. #2044A-1

Non-accredited tests contained in this report:

N/A



Description

The EUT is a lighting ballast with an incorporated 2.4 GHz Zigbee transceiver.

This is a mobile device used in Uncontrolled Exposure environment.

Limits - Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)	0.3-1.234 MHz:	Limit [mW/cm ²] = 100
	1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
	30-300 MHz:	Limit [mW/cm ²] = 0.2
	300-1500 MHz:	Limit [mW/cm ²] = f/1500
	1500-100,000 MHz	Limit [mW/cm ²] = 1.0

Test Frequencies, MHz	2405.0 MHz
Power, Conducted, mW (P)	39.3 mW
Antenna Gain Isotropic	3.3dBi
Antenna Gain Numeric (G)	2.14
Antenna Type	
Distance (R)	20 cm

Power Density Calculations	Formula =	$S = PG / 4\pi R^2$
	Power Density (S) =	0.0167 mW/cm ²
	Limit =	1.0 mW/cm ²

The Power Density is below the Limit.

The SAR measurement is not necessary.

END OF TEST REPORT