RF Exposure Report

Project Number: 4032308

Report Number: 4032308EMC04 **Revision Level:** 0

Client: Eaton Cooper Lighting

Equipment Under Test: Wireless Area Controller

Model Name: WAC-POE

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498
FCC OET Bulletin 65 Supplement

Remarks:
This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

TABLE OF CONTENTS

1 General Information

1.1 *Client Information*

Name:	Eaton Cooper Lighting
Address:	1121 Highway 74 South
City, State, Zip, Country:	Peachtree City, GA 30269, USA

1.2 *Test Laboratory*

Name:	SGS North America, Inc.
Address:	620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country:	Suwanee, GA 30024, USA

1.3 *General Information of EUT*

Type of Product:	Wireless Area Controller
Model Number:	WAC-POE
Serial Number:	F40420116290008
Rated Voltage:	48Vdc (PoE)
Test Voltage:	48Vdc
Tx Frequency Range:	2402-2480MHz (Bluetooth LE) 2405-2480MHz (Zigbee) 2412-2462MHz (2.4GHz WLAN)
FCC Classification:	DTS
Sample Received Date:	25 August 2016

1.4 *Operating Modes and Conditions*

For this assessment, the EUT's maximum measured conducted power was considered.

2 RF Exposure

2.1 *Test Result*

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 *Test Method*

Using the maximum measured conducted powers, the power density was calculated.

2.3 *Single transmission RF Exposure Levels*

Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Average EIRP		Distance (R)	Power Density $EIRP_{Avg}/(4\pi R^2)$	FCC	% of Limit	Verdict
Type	MHz	dBm			dBm	mW	cm	mW	mW/cm^2		
WLAN 2.4GHz	2412-2462	23.3	2.2	0.0	25.5	355	20	0.071	1.00	7%	Pass
Bluetooth LE	2402-2480	-3.5	1.5	0.0	-2.0	1	20	0.000	1.00	0%	Pass
Zigbee	2405-2480	17.2	1.5	0.0	18.7	74	20	0.015	1.00	1%	Pass

Simultaneous transmissions are not possible among the different technologies.