

# **RF Exposure Report**

Project Number:	4032308					
Report Number:	4032308EMC04	Revision Level: 0				
Client:	Eaton Cooper Lighting					
Equipment Under Test:	Wireless Area Control	ler				
Model Name:	WAC-POE					
Applicable Standards:	47 C.F.R. §§ 2.1091 and	d 2.1093; FCC KDB 447498				
	FCC OET Bulletin 65 S	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.

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# **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 100City, 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	Averag	e EIRP	Distance (R)	Power Density EIRP <sub>Avg</sub> /(4πR²)	FCC	% of Limit	Verdict
Туре	MHz	dBm			dBm	mW	cm	mW	mW/cm <sup>2</sup>		
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.