



## Test Report

Prepared for: CentraLite Systems

Model: 3141

Description: Villa 3-Button In-Wall Dimmer

Serial Number: N/A

FCC ID: T3L-SS040  
IC: 12192A-SS040

To

FCC Part 1.1310

Date of Issue: July 3, 2017

On the behalf of the applicant:

CentraLite Systems  
1000 Cody Road South  
Suite A  
Mobile, AL 36695

Attention of:

John Calagaz, CTO  
Ph: (877)466-5483  
E-mail: [johncalagaz@centralite.com](mailto:johncalagaz@centralite.com)

Prepared By  
Compliance Testing, LLC  
1724 S. Nevada Way  
Mesa, AZ 85204  
(480) 926-3100 phone / (480) 926-3598 fax  
[www.compliancetesting.com](http://www.compliancetesting.com)  
Project No: p1740001



**Alex Macon**  
Project Test Engineer

This report may not be reproduced, except in full, without written permission from Compliance Testing  
All results contained herein relate only to the sample tested



### Test Report Revision History

<b>Revision</b>	<b>Date</b>	<b>Revised By</b>	<b>Reason for Revision</b>
1.0	April 12, 2017	Alex Macon	Original Document
2.0	May 31, 2017	Amanda Reed	Updated model information
3.0	July 3, 2017	Alex Macon	Updated to SAR exclusion for 5mm



### 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 below

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

Testing Certificate Number: **2152.01**



**FCC Site Reg. #349717**

**IC Site Reg. #2044A-2**

#### **Non-accredited tests contained in this report:**

N/A

#### **EUT Description**

**Model:** 3141

**Description:** Villa 3-Button In-Wall Dimmer

**Firmware:** N/A

**Software:** N/A

**Serial Number:** N/A

#### **Additional Information:**

The EUT is a wall mounted switch intended to control lighting in a residential environment. It incorporates a 2.4 GHz radio which spans from 2405MHz – 2480MHz with an emissions designator 2M52F7D



### Average Power calculations

Average Power = Peak Power \* duty-cycle%

Tuned Frequency (MHz)	Peak EIRP (mW)	Duty Cycle (%)	Average Power (mW)
2405	2.32	100	2.32mW

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq$  50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}]$   
 $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,<sup>25</sup> where

- $f_{(\text{GHz})}$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>26</sup>
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is  $<$  5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

$$[(2.32)/(5)] \cdot [\sqrt{2.405}] = 0.72$$

The outcome is below the exclusion limit.

END OF TEST REPORT