



## **Certification Exhibit**

**FCC ID: 2AKCY-0725000011**

**FCC Rule Part: 47 CFR Part 2.1093**

**Project Number: 72153009**

Manufacturer: Eaton Cooper Lighting LLC  
Model: 0550-000724

## **RF Exposure**

**General Information:**

Applicant: Cooper Lighting LLC  
 Device Category: Mobile  
 Environment: General Population/Uncontrolled Exposure

**Technical Information:**

Antenna Type: Surface Mount Chip  
 Antenna Gain: 2.6dBi  
 Maximum Transmitter Conducted Power: 14.5dBm, 28.18mW (Zigbee); 14.5dBm, 28.18mW (BLE)  
 Maximum System EIRP: 17.1dBm, 51.29mW (Zigbee); 17.1dBm, 51.29mW (BLE)  
 Exposure Conditions: Greater than 20 centimeters

**MPE Calculation**

The Power Density (mW/cm<sup>2</sup>) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

- S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)
- P = power input to the antenna (in appropriate units, e.g., mW)
- G = power gain of the antenna in the direction of interest relative to an isotropic radiator
- R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

**Table 1: MPE Calculation**

| Transmit Frequency (MHz) | Radio Power (dBm) | Power Density Limit (mW/cm <sup>2</sup> ) | Radio Power (mW) | Antenna Gain (dBi) | Antenna Gain (mW eq.) | Distance (cm) | Power Density (mW/cm <sup>2</sup> ) |
|--------------------------|-------------------|---|------------------|--------------------|-----------------------|---------------|-------------------------------------|
| 2405                     | 14.5              | 1.00                                      | 28.18            | 2.6                | 1.820                 | 20            | 0.010                               |
| 2402                     | 14.5              | 1.00                                      | 28.18            | 2.6                | 1.820                 | 20            | 0.010                               |

Note: The device does not support simultaneous transmissions