



Certification Exhibit

FCC ID: 2AKCY-0520000007

FCC Rule Part: 47 CFR Part 2.1093

Project Number: 72153009

Manufacturer: Eaton Cooper Lighting LLC
Model: 0550-000717

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 (Mighty Gecko Chipset) / 2.6dBi (Blue Gecko Chipset)
 Maximum Transmitter Conducted Power: 14.7dBm, 29.51mW (Zigbee); 14.6dBm, 28.84mW (MG BLE); 0.5dBm, 1.12mW (BG BLE)
 Maximum System EIRP: 17.3dBm, 53.70mW (Zigbee); 17.2dBm, 52.48mW (MG BLE); 3.1dBm, 2.04mW (BG BLE)
 Exposure Conditions: Greater than 20 centimeters

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

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

Where:

- S = power density (in appropriate units, e.g. mW/cm²)
- 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 ²)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
2405	14.7	1.00	29.51	2.6	1.820	20	0.011
2402	14.6	1.00	28.84	2.6	1.820	20	0.010
2402	0.5	1.00	1.12	2.6	1.820	20	0.0004

Note: The device does not support simultaneous transmissions