Certification Exhibit

FCC ID: 2AKCY-TMS0550000295

FCC Rule Part: 47 CFR Part 2.1093

Project Number: 72146524

Manufacturer: Eaton Cooper Lighting LLC
Model: TMS0550000295

RF Exposure

General Information:

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

Technical Information:

Antenna Type: PCB
Antenna Gain: -0.2dBi (Mighty Gecko Chipset) / -1.12dBi (Blue Gecko Chipset)
Maximum Transmitter Conducted Power: 13.9dBm, 24.55mW (Zigbee); 13.5dBm, 22.39mW (MG BLE); 1.8dBm, 1.51mW (BG BLE)
Maximum System EIRP: 13.7dBm, 23.44mW (Zigbee); 13.3dBm, 21.38mW (MG BLE); 0.68dBm, 1.17mW (BG BLE)
Exposure Conditions: Greater than 20 centimeters

MPE Calculation

The Power Density (mW/cm^2) 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)
2475	13.9	1.00	24.55	-0.2	0.955	20	0.005
2440	13.5	1.00	22.39	-0.2	0.955	20	0.004
2402	1.8	1.00	1.51	-1.12	0.773	20	0.0002

Note: The device does not support simultaneous transmissions