



Certification Exhibit

FCC ID: 2AKCY-TMS0550000311

FCC Rule Part: 47 CFR Part 2.1093

Project Number: 72146524

Manufacturer: Eaton Cooper Lighting LLC
Model: TMS0550000311

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
 Maximum Transmitter Conducted Power: 13.0dBm, 19.95mW (Zigbee); 13.5dBm, 22.39mW (BLE)
 Maximum System EIRP: 12.8dBm, 19.05mW (Zigbee); 13.3dBm, 21.38mW (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)
2475	13.0	1.00	19.95	-0.2	0.955	20	0.004
2440	13.5	1.00	22.39	-0.2	0.955	20	0.004

Note: The device does not support simultaneous transmissions