# Certification Exhibit

**FCC ID: 2AKCY-SWPD01DC**

**FCC Rule Part: 47 CFR Part 2.1091**

**TÜV SÜD Project Number: 72141372**

Manufacturer: Cooper Lighting LLC
Model: SWPD01-DC

# RF Exposure

**General Information:**

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

**Technical Information:**

Radio Type: Bluetooth Low Energy
Antenna Type: Ceramic Chip Antenna
Antenna Gain: 1.7 dBi
Maximum Transmitter Conducted Power: 0.29 dBm, 1.0691 mW
Maximum System EIRP: 1.99 dBm, 1.5812 mW
Exposure Conditions: 20 centimeters or greater

**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/Cm2) | Radio Power (mW) | Antenna Gain (dBi) | Antenna Gain (mW eq.) | Distance (cm) | Power Density (mW/cm^2) |
|---|---|---|---|---|---|---|---|
| 2402 | 0.29 | 1.00 | 1.07 | 1.7 | 1.479 | 20 | 0.000 |