



## **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: Zigbee  
 Antenna Type: PCB Antenna  
 Antenna Gain: 2.6 dBi  
 Maximum Transmitter Conducted Power: 12.43 dBm, 17.4985 mW  
 Maximum System EIRP: 15.03 dBm, 31.8420 mW  
 Exposure Conditions: 20 centimeters or greater

**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/Cm2) | Radio Power (mW) | Antenna Gain (dBi) | Antenna Gain (mW eq.) | Distance (cm) | Power Density (mW/cm^2) |
|--------------------------|-------------------|------------------------------|------------------|--------------------|-----------------------|---------------|-------------------------|
| 2405                     | 12.43             | 1.00                         | 17.50            | 2.6                | 1.820                 | 20            | 0.006                   |