



## **Certification Exhibit**

**FCC ID: 2AKCY-SWPD01SC**

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

**TÜV SÜD Project Number: 72141372**

Manufacturer: Cooper Lighting LLC  
Model: SWPD01-SC

## **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