



Certification Exhibit

FCC ID: 2AKCY-42296706111

FCC Rule Part: 47 CFR Part 2.1091

Project Number: 721009025

Manufacturer: COOPER LIGHTING Solutions
Model Name / Number: WaveLinx Lite R3 Sensor / WLS-R3

RF Exposure

General Information:

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

Technical Information (BLE) – “Device 1”:

Frequency Range (MHz): 2402 - 2480
Antenna Type: Surface-mounted antenna (SMD)
Antenna Gains: 2.6 dBi
Maximum Transmitter Conducted Power: 11dBm, 12.59mW
Maximum System EIRP: 13.6dBm, 22.91mW
Exposure Conditions: 20 centimeters

Note: The device does not support simultaneous transmissions

RF Exposure Calculation

Table 1: Device Characteristics (BLE)

Technical Parameters	Device 1
Frequency (GHz)	2.48
Frequency (MHz)	2480
Separation Distance (cm)	20.00
Separation Distance (m)	0.2000
Antenna Gain (dBi)	2.60
ERP Easily Determined	YES
1-g body or 10-g extremity	Body
Conducted Power (dBm)	11.00
Conducted Power (mW)	12.59
Duty Factor (Source-Based) %	100.0
Maximum (Source-Based) Time-Averaged Conducted Power (mW)	12.59
Maximum (Source-Based) Time-Averaged ERP (mW)	13.97
Maximum (Source-Based) Time-Averaged EIRP (mW)	22.91
Maximum Output (mW)	13.97

Table 2: 47 CFR 1.1307(b)(3)(i)(c) MPE-Based Exemption ERP (W) – (BLE)

Technical Parameters	Device 1
$\lambda / 2\pi$ (m)	0.019
$R \geq \lambda / 2\pi$	YES
Maximum (Source-Based) Time-Averaged ERP (W)	0.0140
ERP Threshold (W)	0.7680
Exemption	YES
Contribution Ratio (ERP / ERP_{th})	0.018