Certification Exhibit

FCC ID: 2ADCB-RMODIT

FCC Rule Part: 47 CFR Part 2.1091

Project Number: 72160386

Manufacturer: Acuity Brands Lighting, Inc.
Model: RMODIT

RF Exposure

General Information:

Applicant: Acuity Brands Lighting, Inc.
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

Technical Information (900MHz):

Antenna Type: PCB Flex Antenna
Antenna Gains: 3.5dBi
Maximum Transmitter Conducted Power: 19.35dBm, 86.10mW
Maximum System EIRP: 22.85dBm, 192.75mW
Exposure Conditions: Greater than 20 centimeters

Technical Information (2400MHz):

Antenna Type: SMT Chip
Antenna Gains: 3.0dBi
Maximum Transmitter Conducted Power: 9.11dBm, 8.15mW
Maximum System EIRP: 12.11dBm, 16.26mW
Exposure Conditions: Greater than 20 centimeters

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/cm^2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
2402	9.11	1.00	8.15	3.0	1.995	20	0.003
904	19.35	0.60	86.10	0.8	1.202	20	0.021

Table 2: Simultaneous Transmissions Calculations

Technology	Transmit Frequency (MHz)	Power Density Limit (mW/m^2)	Power Density (mW/m^2)	MPE Ratio to Limit (%)	Sum of MPE Ratios (%)	Limit (%)
BLE	2402	1.00	0.003	0.32	3.74	100
900MHz	904	0.60	0.021	3.42		