Certification Exhibit

FCC ID: 2ADCB-BMODIT

FCC Rule Part: 47 CFR Part 2.1091

Project Number: 72156965

Manufacturer: Acuity Brands Lighting, Inc.
Model: BMODIT

RF Exposure

General Information:

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

Technical Information:

Antenna Type: Multiple
Antenna Gains: Surface Mount Chip / 3dBi (Molex, P/N: 0479480001)
PCB Trace / 3.2dB (Acuity, Custom)
External PCB / 1.5dBi (Pulse, P/N: W3525BXXX)
External Monopole / 3.1dB (Pulse, P/N: W9032)
External Whip / 3dBi (Pulse, P/N: W1990WSA)
Maximum Transmitter Conducted Power: 5.3dBm, 3.39mW
Maximum System EIRP: 8.5dBm, 7.08mW
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

Antenna	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)
Chip	2402	5.3	1.00	3.39	3	1.995	20	0.001
Trace	2402	5.3	1.00	3.39	3.2	2.089	20	0.001
Ext PCB	2402	5.3	1.00	3.39	1.5	1.413	20	0.001
Monopole	2402	5.3	1.00	3.39	3.1	2.042	20	0.001
Whip	2402	5.3	1.00	3.39	3	1.995	20	0.001

Note: The device does not support simultaneous transmissions