



America

Certification Exhibit

FCC ID: 2ADCB-CRM1

FCC Rule Part: 47 CFR Part 2.1091

Project Number: 72128840

Manufacturer: Acuity Brands Lighting, Inc.
Model: BRM1-1, BRM1-2

RF Exposure

General Information:

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

Technical Information:

Antenna Type: Printed Inverted F
 Antenna Gain: 2.0 dBi
 Maximum Transmitter Conducted Power: 2.33 dBm, 1.71 mW
 Maximum System EIRP: 4.33 dBm, 2.71 mW
 Exposure Conditions: 20 centimeters or greater

MPE Calculation

The Power Density (mW/cm²) 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/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
2402	2.33	1.00	1.71	2	1.585	20	0.001