



Excellence in Compliance Testing

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## **Certification Exhibit**

**FCC ID: 2ADCB-BLMF1**

**FCC Rule Part: 15.247**

**ACS Project Number: 16-0046**

Manufacturer: Acuity Brands Lighting, Inc.  
Model: BLMF1

## **RF Exposure**

**General Information:**

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

**Technical Information:**

Antenna Type: PIFA  
 Antenna Gain: 4.4dBi  
 Maximum Transmitter Conducted Power: 2.42 dBm, 1.75 mW  
 Maximum System EIRP: 6.82 dBm, 4.81 mW  
 Exposure Conditions: Greater than 20 centimeters

**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)

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)
2480	2.42	1.00	1.75	4.4	2.754	20	0.001