

US Tech Test Report:
Report Number:
Customer:
FCC ID:
IC:
Issue Date:
Model:

FCC Part 15.249/ RSS 210
14-0201
Acuity Brands Lighting
2ADCB-FCS7TSN
6715C-FCS7TSN
September 3, 2014
FCS 7TSN

Maximum Public Exposure to RF (MPE)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for:

Declared maximum output power: +4 dBm

Highest Gain Antenna PCB Trace Antenna = 3.0 dBi

Peak Power (Watts) = 0.0025 (Manufacture's claimed highest output power)

Gain of Transmit Antenna = 3.0 dBi = 1.99, numeric (from Table 3 of Test Report)

d = Distance = 20.0 cm = 0.20 m

$$\begin{aligned} S &= (PG / 4\pi d^2) = EIRP / 4A = 0.0025(1.99) / 4 * \pi * 0.20 * 0.20 \\ &= 0.0050 / 0.5027 = 0.0099 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.00099 \text{ mW/cm}^2 \end{aligned}$$

which is < less than 1.0 mW/cm²