

## RFI Test Report – Lighting Device

**Manufacturer:** Feit Electric      **Model:** 75W eq PAR30 Dimmable LED flood

Model number: PAR30LDM/930CA/2

<https://www.feit.com/products/bulbs/flood-and-spot/750-lumen-3000k-par30/>

Description: PAR30 LED flood bulb, 8.3W, medium base

Purchased from: Home Depot

Price: \$12.73 (2 pack)

Test equipment: Isolation transformer, 50 uH LISN, HP 8560A with 20 dB preamp, Tek TDS320A. Note: Spectrum spikes around 100 MHz are FM band leakage.

Tested by: Gary Johnson, NA6O Date: Mar 19, 2019

### Summary

Recommend for amateur radio stations: YES, excellent.

FCC Part 15 conducted emissions: Compliant.

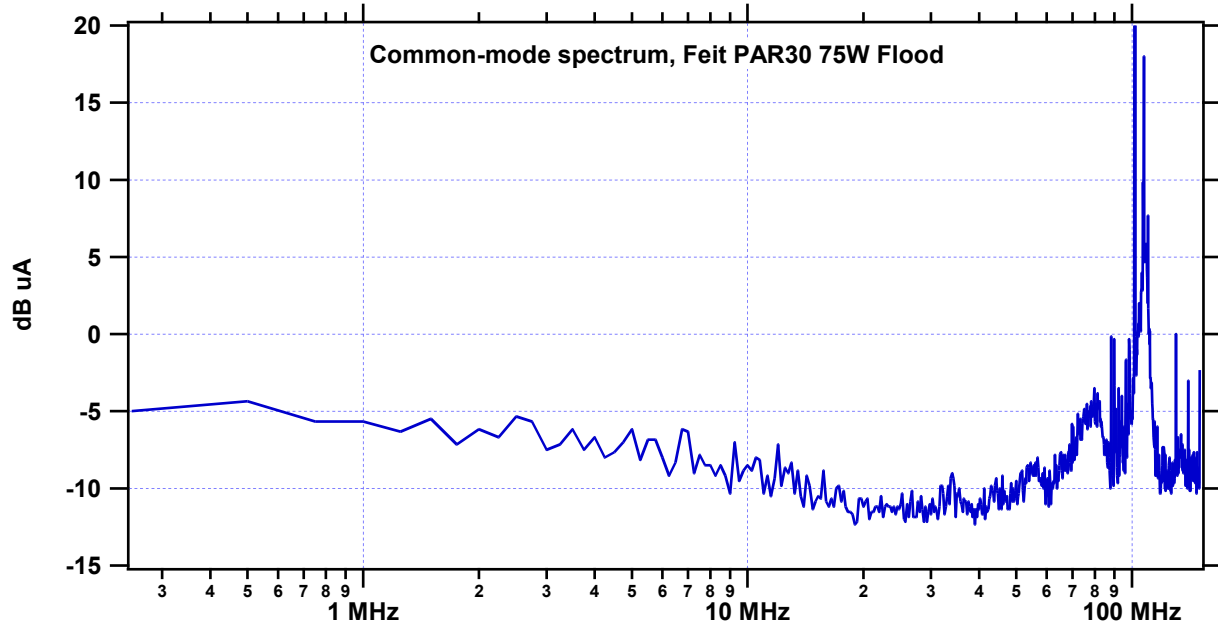
FCC Part 15 labeling: Compliant, listed on package only.

### Observations:

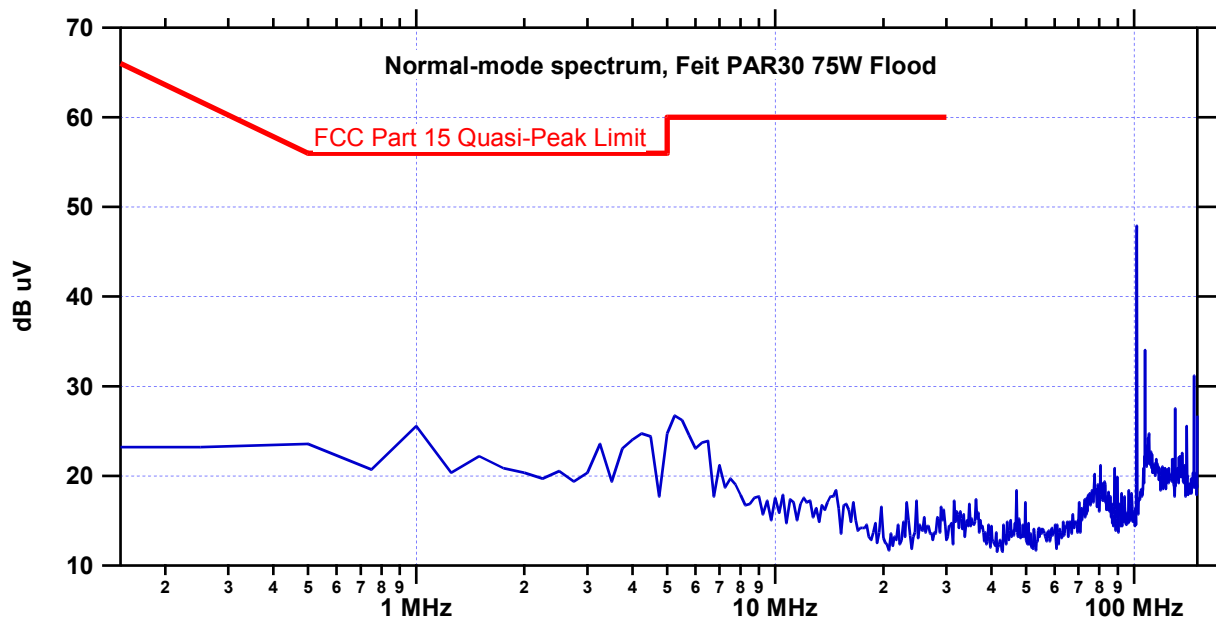
Switching frequency about 76 kHz. Normal-mode noise easily meets FCC Part 15, waveform is symmetrical and common-mode coupling is low. This bulb was nearly undetectable with my portable radio in the HF bands. Highly recommended for use at amateur radio stations.



### Common-mode Spectrum



### Normal-mode Spectrum



### Normal-mode Waveform

Peak-detect mode. Bursts are 76 kHz sinewaves. High-speed glitches, about 3 ns wide, seem to alternate polarity along with AC phase and are stronger on the hot side of the line (center pin of lamp socket). The glitches contribute to VHF noise. Overall, this is low-level noise for an LED bulb.

