EXAMPLE TEST RESULT
2013 Common 1000W Ballast

RF REDUCTION FILTER SET

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INFORMATION & SPECIFICATIONS
The Nanolux RF Reduction Filter Set reduces both the emitted and conducted RF radiation from Digital/Electronic ballasts. It has come to the industry’s attention in the last year that virtually every Digital/Electronic ballast does not meet the FCC regulations for the emissions of excessive RF interference. This can have interference effects on radios (AM and FM), televisions, cellular phones, police and fire department communications and Ham radios. The RF interference can be triangulated if someone wants to identify the source of the interference which may lead to your garden...

**INPUT FILTER**
The INPUT filter is installed in-line with the IEC input power cord of the ballast. The input filter will reduce the RF levels of any Digital / Electronic power supply to be close to or surpass the FCC required limits for both EMC and EMI. It specifically reduces the conducted emissions from traveling back into the electrical wiring of the building.

**OUTPUT FILTER**
The OUTPUT filter is installed onto the output cord of the ballast. The filter uses the “standard” male plug (if you have an HF ballast, you will need an adaptor). The filter has dual female outlets which accept both styles. The OUTPUT filter specifically reduces the EMI from the high frequency signal generated by the ballast traveling through the lamp cord. The output filter will reduce the RF levels of any Digital / Electronic power supply to be close to or surpass the FCC required limits for both EMC and EMI.

### SPECIFICATIONS

**RF FILTER SET - OUTPUT**
- **Max Voltage:** 600V
- **Max Current:** 10A
- **Max Conducted Emission (0.45MHz - 30MHz):** 25dB
- **Max Radiated Emission (30MHz - 1000MHz):** 25dB
- **Reference Standard:** FCC Part 18 Class B

**RF Filter Set - INPUT**
- **Input Voltage:** 120/240/277Vac
- **Max Current:** 15A
- **Frequency:** 50/60Hz
- **Max Conducted Emission Reduction (0.45MHz - 30MHz):** 45dB
- **Max Radiated Emission Reduction (30MHz - 1000MHz):** 23dB
- **Reference Standard:** FCC Part 18 Class B

**CAUTION:**
This device is used for reducing the EMI and EMC of ballasts, use for INPUT & OUTPUT respectively. Make sure that all plug connections are good and that RF Filter Set is secured.