

# OSRAM KREIOS FLx 90W Dimming Performance on Electronic Theatre Controls Dimming Systems:

[Note: All % levels given represent control input – not light output level.]

## SENSOR 3 dimmers

**D20 & ELV10** - The fixtures turn on at 1% after a delay of about 3 seconds. Automated fades up from 0% skip over the lower end of the dimming range. The light does not flicker while steady on any level, and fades between levels are otherwise smooth.

**\*\*Note\*\*** Because they do not have Smoothing control, on legacy **Sensor** and **Sensor+** fades between levels have visible steps, but all other performance is the same.

## ECHO

**EVLD** – Lights turn on between 2-4% after a delay of about 2 seconds. At levels below 6%, variation in light output could occur between fixtures. Automated fades up from 0% skip over the lower end of the dimming range. The light does not flicker while steady on any level, and fades between levels are otherwise smooth.

## UNISON Legacy dimmers

**D20**- Not Compatible

**ELV10** – Dimming between 2% and full. Automated fades up from 0% skip over the lower end of the dimming range. The light shimmers while steady on any level below about 40%, doing so more severely at lower levels. Fades between levels have visible steps

## UNISON DRd

**D20 & ELV10**- The fixtures turn on at 1% after a delay of about 3 seconds. Automated fades up from 0% skip over the lower end of the dimming range. The light shimmers while steady on any level below about 50%, and fades between levels are otherwise smooth.



Recommended settings for best performance:

**SENSOR 3**

**D20** - Dimmer module should be in Normal firing, with Smoothing control, a mod-linear curve, 1% threshold, a min scale of 6%, and no regulation.

**ELV10-s** - Dimmer module should be in Reverse firing, with Smoothing control, a mod-linear curve, 1% threshold, a min scale of 7%, and no regulation.

**ECHO**

**ELVD** - Dimmer should be in Normal mode, with Auto or Reverse phase.

**UNISON Legacy dimmers** – N/A

**UNISON DRd**

**D20** - Dimmer module should be in LED Smoothing Forward Phase mode, with a linear curve, 0% threshold, a min scale of 6V, and transformer mode on.

**EVL10** - Dimmer module should be in LED Smoothing Reverse Phase mode, with a linear curve, 0% threshold, a min scale of 9V, and transformer mode on.

*All testing performed by ETC in Middleton, WI on September 24, 2015*

