

Thank you for visiting eldoLED at LuxLive 2015! At our booth, we demonstrated how flicker percent and flicker frequency determine the quality of light.

The following diagrams, which have been created according to the IEEE P1789 standard, show the superior quality of eldoLED drivers when it comes to creating Natural Dimming for your LED lighting application: dim to dark, smooth, and above all **flicker-free**. Flicker, both visible and non-visible, can cause health and performance effects, ranging from impaired visual performance and headaches to neurological problems such as epileptic seizures.

Recommended practice:

LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Submit % flicker in 1% increments for full range of dimming starting at 500 mA for full output reading. Systems that do not meet IEEE P1789 will not be considered.

Legend for the diagrams below:

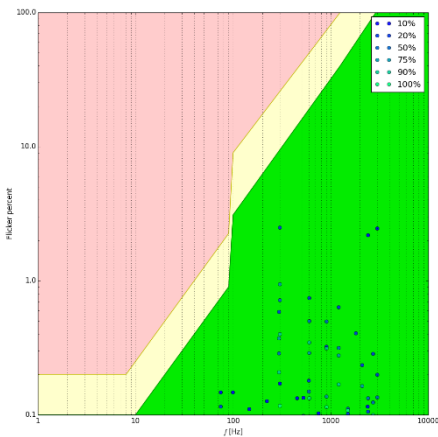
- green no effect level
- yellow low risk level
- red high risk level

Driver X, Y and Z are 3rd party LED drivers available in the market today.

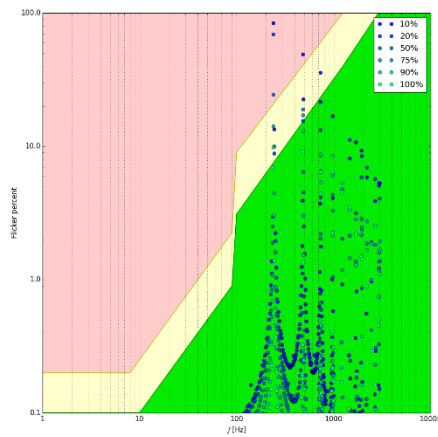
Flicker percent per frequency

Dimming range from 100% down to 10%

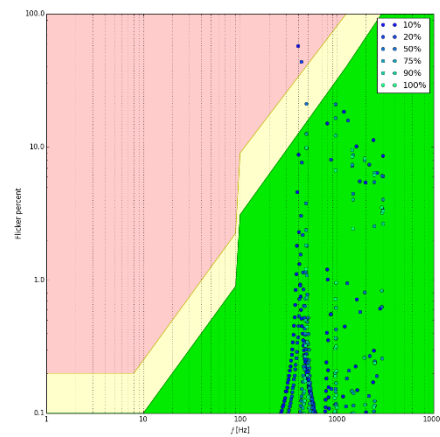
eldoLED SOLOdrive
Hybrid HydraDrive



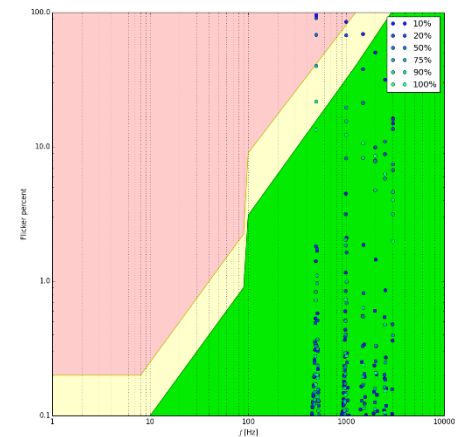
Driver X
PWM



Driver Y
PWM

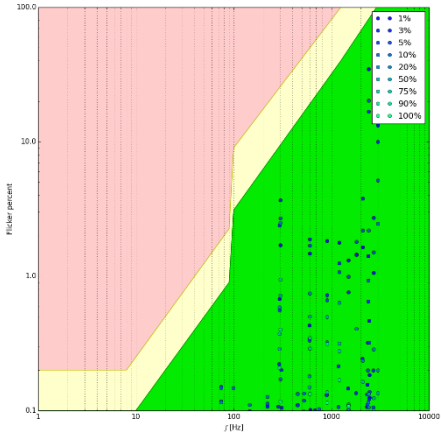


Driver Z
PWM



Dimming range from 100% down to 1%

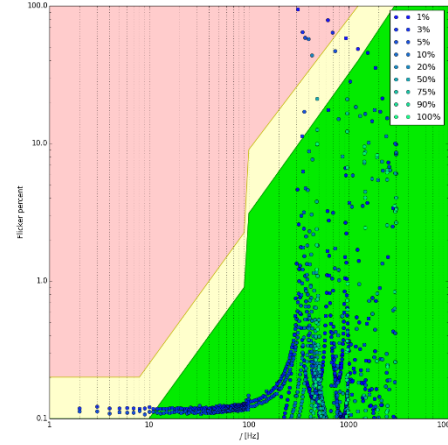
eldoLED SOLOdrive
Hybrid HydraDrive



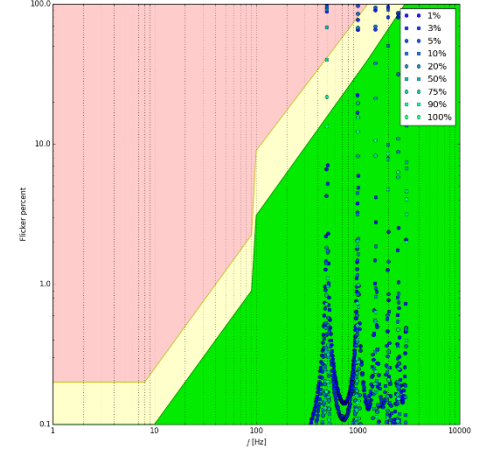
Driver X
PWM



Driver Y
PWM

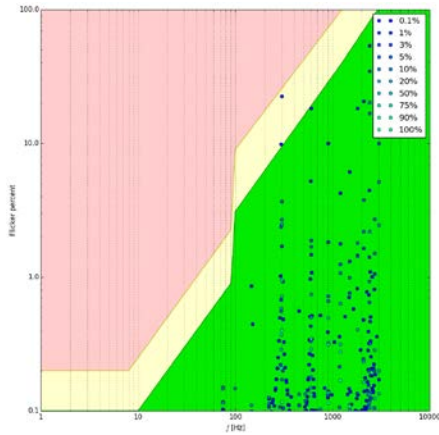


Driver Z
PWM



Dimming range from 100% down to 0.1%

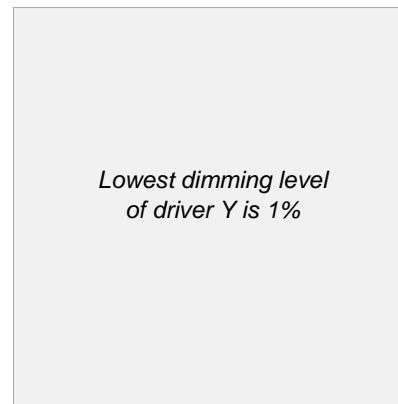
eldoLED SOLOdrive
Hybrid HydraDrive



Driver X
PWM



Driver Y
PWM



Driver Z
PWM

