ASSIST recommends... Light Source Flicker: Application Considerations

The Alliance for Solid-State Illumination Systems and Technologies (ASSIST) has published a guide describing experimental data that illustrate how detection and acceptability of stroboscopic effects change under different conditions that might be more applicable to certain lighting applications. The guide, “ASSIST recommends... Application Considerations Related to Stroboscopic Effects from Light Source Flicker,” provides a framework for evaluating different applications based on the importance of flicker, with several examples included.

The ASSIST recommends document describes several sets of experimental data. In order to understand how flicker frequency and the amount of modulation affect the perception and acceptability of stroboscopic effects, a high-speed, high-contrast task was used. Subsequently, a similar experiment was performed but with a low-speed, low-contrast visual task (see figure). Finally, a third study was conducted using both high- and low-speed tasks to compare the flicker index and percent

For More Information

The ASSIST recommends publication is available for free download: http://www.lrc.rpi.edu/programs/solidstate/assist/recommends/flicker.asp


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