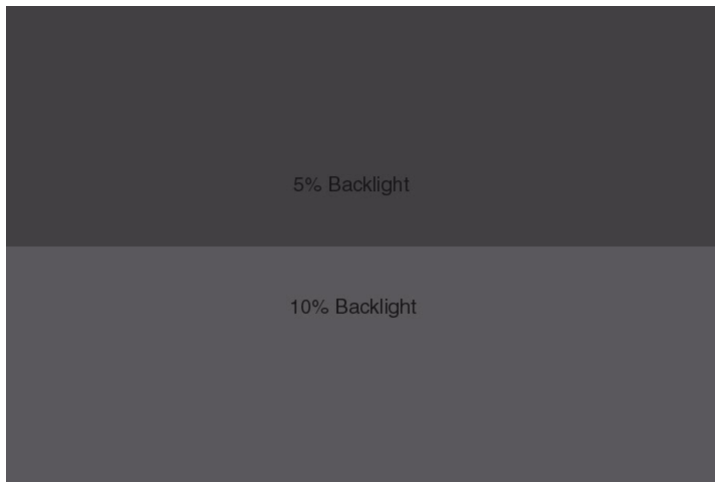


IDEAL-LUME LED ADJUSTMENT TIPS

The Society of Motion Picture and Television Engineers (SMPTE) recommends that ambient lighting be no brighter on the wall behind the display than 10% of the brightest white produced by **a television that has been adjusted for dark room viewing** (SMPTE RP166-1995). A low cost and simple means for determining what 10% is, can be accomplished by using video test patterns displayed on the TV screen. Two popular optical disc titles offered for home theater setup and calibration have such patterns included in their programs. Here are examples:



This pattern is from 'Digital Video Essentials' by Joe Kane Productions.



This one is from 'Avia Guide to Home Theater' by Ovation Multimedia.

We carry several versions of such programs in our online store. There are also tutorial instructions in these programs that explain how to adjust the contrast and brightness controls of your TV for dark room viewing conditions. Once your TV is adjusted for a darkened room, you can simply compare the amount of illumination on the wall by eye to that in the test pattern as you dim the bias light.

The revised SMPTE ST 2080-3:2017 specifies a "shall have" standard ambient to be 5 nits, +/- 0.5, for professional environments. Setting this requires a spot photometer or compliant spectroradiometer.