A calibration and adjustment method for a dynamic visual comfort assessment

Glare is known as one of the main causes of visual discomfort in office space and yet remains difficult to evaluate quantitatively. Most discomfort glare models have limitations when attempting to represent the reality of user behaviour. One reason is that models are developed based only on subjective surveys. This research aims to probe the influence of experiencing glare on user ocular and dynamic gaze behaviour as an objective response. To do so, an experimental study was conducted utilizing an eye-tracking device to record user’s gaze responses to the surrounding environment. High dynamic range imaging was also used to record luminance distribution. This paper documents the calibration process for the variety of equipment utilized in this research.

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