

LIGHTING CONTROL METHOD AND SYSTEM

Abstract

Various embodiments provide a method of controlling a lighting device to generate light of a desired natural scene. The lighting device may include a plurality of warm white LEDs having a first intensity range and a plurality of cool white LEDs having a second intensity range. The method may include dividing each of the first intensity range and the second intensity range into a predetermined number of intensity levels; initializing the plurality of warm white LEDs to a first intensity level and initializing the plurality of cool white LEDs to a second intensity level, the first intensity level and the second intensity level being determined based on the desired natural scene; iteratively adjusting at least one of the intensity level of the warm white LEDs or the intensity level of the cool white LEDs by at least one level in each iteration, until the light generated by the lighting device matches a desired correlated color temperature predetermined for the desired natural scene; and iteratively adjusting at least one of the intensity level of the warm white LEDs or the intensity level of the cool white LEDs, until the light generated by the lighting device matches a desired illuminance predetermined for the desired natural scene.

Fig. 13