

Title (en)

LINEAR LED ILLUMINATION DEVICE WITH IMPROVED COLOR MIXING

Title (de)

LINEARE LED-BELEUCHTUNGSVORRICHTUNG MIT VERBESSERTER FARBMISCHUNG

Title (fr)

DISPOSITIF LINÉAIRE D'ÉCLAIRAGE À DEL AVEC MÉLANGE DE COULEURS AMÉLIORÉ

Publication

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Application

EP 14825488 A 20141204

Priority

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- US 2014068556 W 20141204

Abstract (en)

[origin: WO2015085062A2] A linear multi-color LED illumination device that produces uniform color throughout the output light beam without using excessively large optics or optical losses is disclosed herein. Embodiments for improving color mixing in the linear illumination device include a shallow dome encapsulating a plurality of emission LEDs within an emitter module, a unique arrangement of a plurality of such emitter modules in a linear light form factor, and special reflectors designed to improve color mixing between the plurality of emitter modules. The illumination device further includes a light detector and optical feedback for maintaining precise and uniform color over time and/or with changes in temperature. The illumination device can include a rotational hinge allowing a power cable of the illumination device to enter and exit through a rotational axis of the hinge, but does not require special tools or an independent locking mechanism to secure in place.

IPC 8 full level

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CPC (source: EP US)

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