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(57) **ABSTRACT**

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Computer implemented systems and methods for providing dynamic lighting through lighting fixtures are provided herein. In one aspect, one or more characteristics of light provided from a lighting fixture or a plurality of lighting fixtures changes over time to shape the environment of an indoor space according to simulated environment illumination parameters and general illumination parameters. Dynamic lighting may improve the health or wellbeing of individuals in an indoor space, for example, by simulating an outdoor environment to reduce stress, by providing circadian entrainment to improve sleep and wakefulness, or the like. Other aspects of the present disclosure enable lighting fixtures to provide light that is synchronized with one or more other devices that simulate an environment and shape the environment of an indoor space.

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