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(19) **United States**(12) **Patent Application Publication**
Knauss et al.(10) **Pub. No.: US 2023/0232517 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **CONFIGURATION FOR A LOAD
REGULATION DEVICE FOR LIGHTING
CONTROL**(71) Applicant: **Lutron Technology Company LLC**,
Coopersburg, PA (US)(72) Inventors: **Matthew Knauss**, Somerville, MA
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MA (US)(73) Assignee: **Lutron Technology Company LLC**,
Coopersburg, PA (US)(21) Appl. No.: **18/191,480**(22) Filed: **Mar. 28, 2023****Related U.S. Application Data**(63) Continuation of application No. 17/391,856, filed on
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14, 2017.**Publication Classification**(51) **Int. Cl.**
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H05B 45/10 (2006.01)**H05B 45/24** (2006.01)**H05B 45/44** (2006.01)**H05B 47/18** (2006.01)**H05B 47/19** (2006.01)**H05B 45/37** (2006.01)(52) **U.S. Cl.****CPC** **H05B 45/3725** (2020.01); **H05B 45/10**
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45/44 (2020.01); **H05B 47/18** (2020.01);
H05B 47/19 (2020.01); **H05B 45/37** (2020.01)(57) **ABSTRACT**

A load regulation device, such as an LED driver, may be configured to control the intensity of a light source based on an analog control signal and a preconfigured dimming curve. The LED driver may sense a magnitude of the analog control signal and determine a new low-end and/or high-end control signal magnitude that falls outside of the input signal range of the dimming curve. The LED driver may rescale the preconfigured dimming curve according to new low-end and/or high-end control signal magnitudes and dim the light source based on the rescaled dimming curve. Multiple LED drivers controlled by the same analog control signal may communicate with each other regarding the magnitude of the analog control signal sensed by each LED driver, and match their target intensity levels despite sensing different analog control signal. A controller may be provided to coordinate the operation of the multiple LED drivers.

