

## DOCKETED

<b>Docket Number:</b>	17-BSTD-02
<b>Project Title:</b>	2019 Title 24, Part 6, Building Energy Efficiency Standards Rulemaking
<b>TN #:</b>	222486
<b>Document Title:</b>	2-6-18 Presentation on Proposed 2019 Energy Code Subchapter 4
<b>Description:</b>	Presentation given by Simon Lee at the 2-6-18 Commissioner Hearing on the proposed 2019 Energy Code.
<b>Filer:</b>	Adrian Ownby
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	2/8/2018 11:22:39 AM
<b>Docketed Date:</b>	2/8/2018



# **2019 Building Energy Efficiency Standards Lead Commissioner Hearing For 45-Day Language**

February 6, 2018

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**SUBCHAPTER 4**

**Section 130's**

Nonresidential, High-rise Residential, and Hotel/Motel  
Mandatory Requirements for Lighting Systems and  
Equipment, and Electrical Power Distribution Systems



## Changes to § 130.0

### Lighting Systems And Equipment, And Electrical Power Distribution System - General

Luminaire wattage determination

§130.0(c)4 Inseparable Solid State Lighting (SSL)

luminaires – the maximum rated input wattage

§130.0(c)5 LED tape lighting and other linear lighting that do not require a housing – the maximum rated input wattage

§130.0(c)2B Recessed Luminaires with medium screw base sockets – the rated wattage of the installed JA8 lamps



## Changes to § 130.0

# Lighting Systems And Equipment, And Electrical Power Distribution System - General

(continue)

§130.0(c)6 Luminaire wattage determination for modular lighting systems:

- The greater of 30W per foot of track lighting, or the wattage of all luminaires, or
- The rating of the track lighting current limiter or supplementary overcurrent protection panel, or
- For other modular lighting system, the rated wattage of the driver, power supply, or transformer.



## Changes to § 130.1 Mandatory Indoor Lighting Controls

130.1(a) Rewrote for clarifications.

130.1(b) Rewrote for clarifications.

130.1(c) Added Occupancy Sensing for Restrooms.

130.1(e) Moved Demand Responsive (DR) Controls requirements to 110.12.

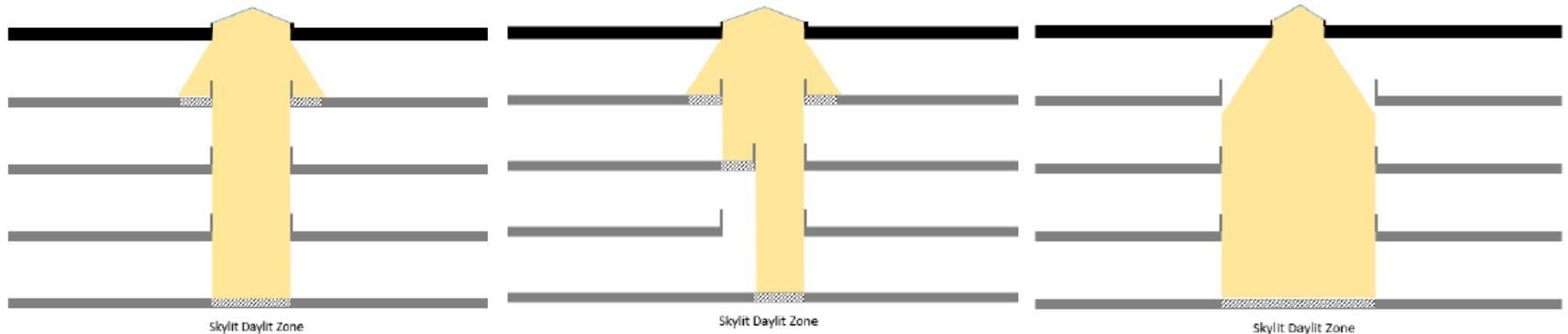
130.1(f) Added this new section to describe the expected interactions of lighting controls.



## Changes to § 130.1 –MANDATORY INDOOR LIGHTING CONTROLS

### §130.1(d) Automatic Daylighting Controls

- Moved daylit zone definitions to 100.1.
- Clarify Skylit daylit zone for atrium spaces include:
  - the top floor area directly adjacent to the atrium
- Clarify sidelit daylit zone requirements for very large overhangs
- Sections Related to Daylighting & Controls: §140.3(d); 140.6(a)2L





## Changes to § 130.2 Outdoor Lighting Controls and Equipment

### § 130.2(b) Outdoor Luminaire Cutoff requirements

- Revised the threshold from wattage based to lumen output based (greater than 5,500 initial lumen output)
- Refers to Part 11 (CA Green Building Code) for Backlight, Uplight and Glare requirements. Deleted Table 130.2-A and 130.2-B.



## Changes to § 130.2 Outdoor Lighting Controls and Equipment

§130.2(c)2 Reduced outdoor lighting power by at least 50% during unoccupied periods and also capable of turning off the lighting

- by using automatic scheduling controls, or motion sensing controls

§130.2(c)3 Mandatory use of outdoor motion sensing controls for specific outdoor lighting applications

- Outdoor luminaires mounted 24 feet or less above grade (not for building facades lighting, outdoor dining lighting, others.)



## Changes to §130.4 Lighting Control Acceptance and Installation Certificate

### §130.4(b)

Removed Installation Certificate Requirements of:

- Track lighting integral current limiters
- Track lighting supplementary overcurrent protection panels.



## Changes to § 130.5 Electrical Power Distribution System

Added exceptions for Healthcare facilities to:

- §130.5(a) Service Electrical Metering
- §130.5(b) Separation of Electrical Circuits for Electrical Energy Monitoring
- §130.5(d) Circuit Controls for 120-Volt Receptacles and Controlled Receptacles

Moved the Demand Responsive requirement to a new Section 110.12.



## How to submit written comments

- **We strongly encourage submitting written comments via e-file.** Comments on the proposed 2019 Energy Code can be submitted to: <https://efiling.energy.ca.gov/EComment/EComment.aspx?docketnumber=17-BSTD-02>.
- Comments on the proposed 2019 CALGreen can be submitted to: <https://efiling.energy.ca.gov/EComment/EComment.aspx?docketnumber=17-BSTD-03>.
- Comments can also be submitted physically or by e-mail, here:

California Energy Commission  
Dockets Office, MS-4

Re: Docket No. 17-BSTD-02 (for CALGreen, 03)

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