

Title 24 - 2019

Lighting and Receptacle Control Requirements for New Construction and Major Renovations*



STAIRWELLS AND CORRIDORS

PARTIAL-OFF | 130.1(c)6

Automatic reduction of lighting power by at least 50% when the space is vacant for more than 20 minutes.

KEY EXCEPTIONS

- Healthcare facilities

LUTRON SOLUTIONS

- **Wireless Occupancy Sensors**
- LRF2-OWLB-P

OTHER INTERIOR SPACES

AREA CONTROL | 130.1(a)

Manual lighting control for general lighting is required in each space.

KEY EXCEPTIONS

- Egress Illumination: Up to 0.2 W/ft² may be uncontrolled

LUTRON SOLUTIONS

- **Pico Wireless Remotes**
- PJ2-3BRL-GWH-L01

MULTI-LEVEL LIGHTING OR DIMMING | 130.1(b)

At least 5 levels of lighting include ON and OFF for fluorescent lighting and continuous dimming for LED lighting.

KEY EXCEPTIONS

- Spaces less than 100 ft² or that use less than 0.5 W/ft² of lighting power
- Healthcare facilities

LUTRON SOLUTIONS

- **PowPak 0-10V Dimming Module**
- RMJS-8T-DV-B

AUTOMATIC LIGHTING SHUT-OFF | 130.1(c)

Automatic lighting shut-off required (e.g., occupancy sensor or time clock).

KEY EXCEPTIONS

- Continuously illuminated 24/7 spaces and up to 0.1 W/ft² may be uncontrolled
- Healthcare facilities

LUTRON SOLUTIONS

- **Wireless Occupancy & Vacancy Sensors**
- LRF2-OCR2B-P-WH
- LRF2-VCR2B-P-WH

DAYLIGHT ZONE CONTROL | 130.1(d)

Luminaires in daylight zones shall have automatic daylight responsive controls.

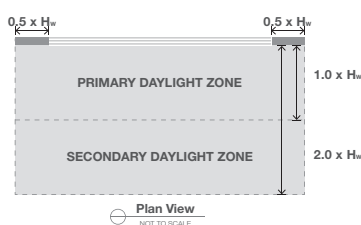
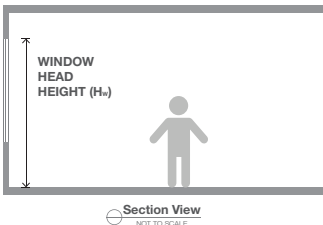
KEY EXCEPTIONS

- Spaces with windows less than 24 ft² in area; and spaces that have less than 120W of lighting power in all daylight zones

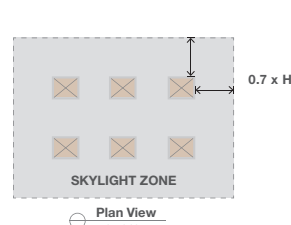
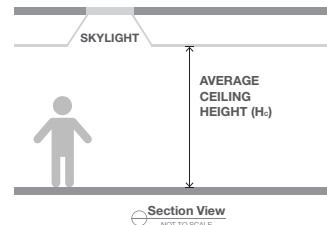
LUTRON SOLUTIONS

- **Wireless Daylight Sensors**
- LRF2-DCRB-WH

Sidelighting (Window)



Toplighting (Skylight)



DEMAND RESPONSE | 130.1(e)

NEW OpenADR-compliant lighting system shall be capable of reducing lighting and other loads by at least 15%.

KEY EXCEPTIONS

- Buildings less than 10,000 ft² and spaces that use less than 0.5 W/ft² of lighting power
- Healthcare facilities

LUTRON SOLUTIONS

- **Vive Wireless Hub**
- HJS-1-FM

RECEPTACLE CONTROL | 130.5(d)

Automatic control of receptacles in certain spaces to help reduce plug loads. Spaces include: office (open and private), lobbies, conference rooms, kitchen areas in office spaces, copy rooms, and guestrooms.

KEY EXCEPTIONS

- Receptacles on circuits rated more than 20 amperes and receptacles in healthcare facilities
- Receptacles for refrigerators and water dispensers in kitchens

LUTRON SOLUTIONS

- **Wireless Receptacle**
- CAR2S-20-STR-WH

EXTERIOR AREAS

EXTERIOR LIGHTING CONTROL | 130.2(c)

Daylight shutoff – automatic OFF when daylight is available.
Nighttime lighting setback – lighting automatically reduced by 50% to 90% (or OFF) via scheduling or by motion sensing.

KEY EXCEPTIONS

- Outdoor lighting not permitted to be turned OFF or reduced by a health or life safety statute, ordinance, or regulation

LUTRON SOLUTIONS

- **Limelight Gateway & Sensor**
- LL-CELLGATE
- LL-EXTMOUNT

FUNCTIONAL TESTING

FUNCTIONAL TESTING | 130.4

Lighting controls must be tested to ensure that they are working properly (shutoff controls, daylight controls, demand response controls and exterior controls).

KEY EXCEPTIONS

- N/A

LUTRON SOLUTIONS

- **Lutron Field Services**

For more code-based resources, visit lutron.com/energycodes

*Requirements are for all new construction, and existing building renovations that use more than 80% of allowed lighting power or renovations of more than 5,000 sf where new lighting power is 60% or higher than previous lighting power.

This document summarizes the lighting and receptacle control requirements for commercial buildings. It is for information purposes only. It is not meant to replace your state's or local jurisdiction's official energy code. Please refer to your local building energy code or authority having jurisdiction for your precise requirements. Only the authority having jurisdiction can guarantee code compliance.