

California Title 24-2013 Non-Residential Lighting Control Requirements From top to bottom

State Policy Goal
Net zero energy by 2030

Interior Spaces

130.1(b) Multi-level

General lighting luminaires must be controlled by a device capable of meeting Table 130.1-A control step and uniformity criteria

130.1(d) Daylighting

When daylight illuminance > 150% design electric light, automatic daylight controls to reduce by at least 65% power (but never less than electric light)

Daylighting Spaces

- Skylit
- Primary sidelit
- Secondary sidelit

WattStopper interprets code requirements as essentially identifying 4 basic space archetypes that will require specific control treatment

130.1(a) Area Control

All luminaires require manually switched On/Off controls and all areas enclosed by ceiling height partitions be independently controlled

130.1(c) Auto Off

Auto shutoff for all interior lighting
Separate controls per floor
Separate controls per 5000 ft²

130.5 Plug Load

split wired receptacle or one controlled receptacle (CR) within 6' of each uncontrolled receptacle (UCR)

Building Requirement

130.5(a) Metering

- Based on size of electrical svc
 - < 50KVA
 - 50-250 KVA
 - 250-1000 KVA
 - > 1000 KVA
- Enables measurement of energy use from single point

130.1(e) Demand Responsive Controls

- Bldgs > 10,000 ft² capable of reducing total lighting power by at least 15%
- Reduction must be uniform
- Non habitable space don't count in reduction
- Spaces <.5W ft² shall not count
- Capable of 2-way communication using at least 1 standards-based protocol

130.4 Acceptance Testing & Certification

- Documentation that system complies with relevant plans, specifications, codes prior to final occupancy permit

Primary Exceptions:

- Classrooms ≤ 0.7 W/ft² allowed 1 step of 30-70% power
- Areas with a single 1-2 lamp luminaire

Primary Exceptions:

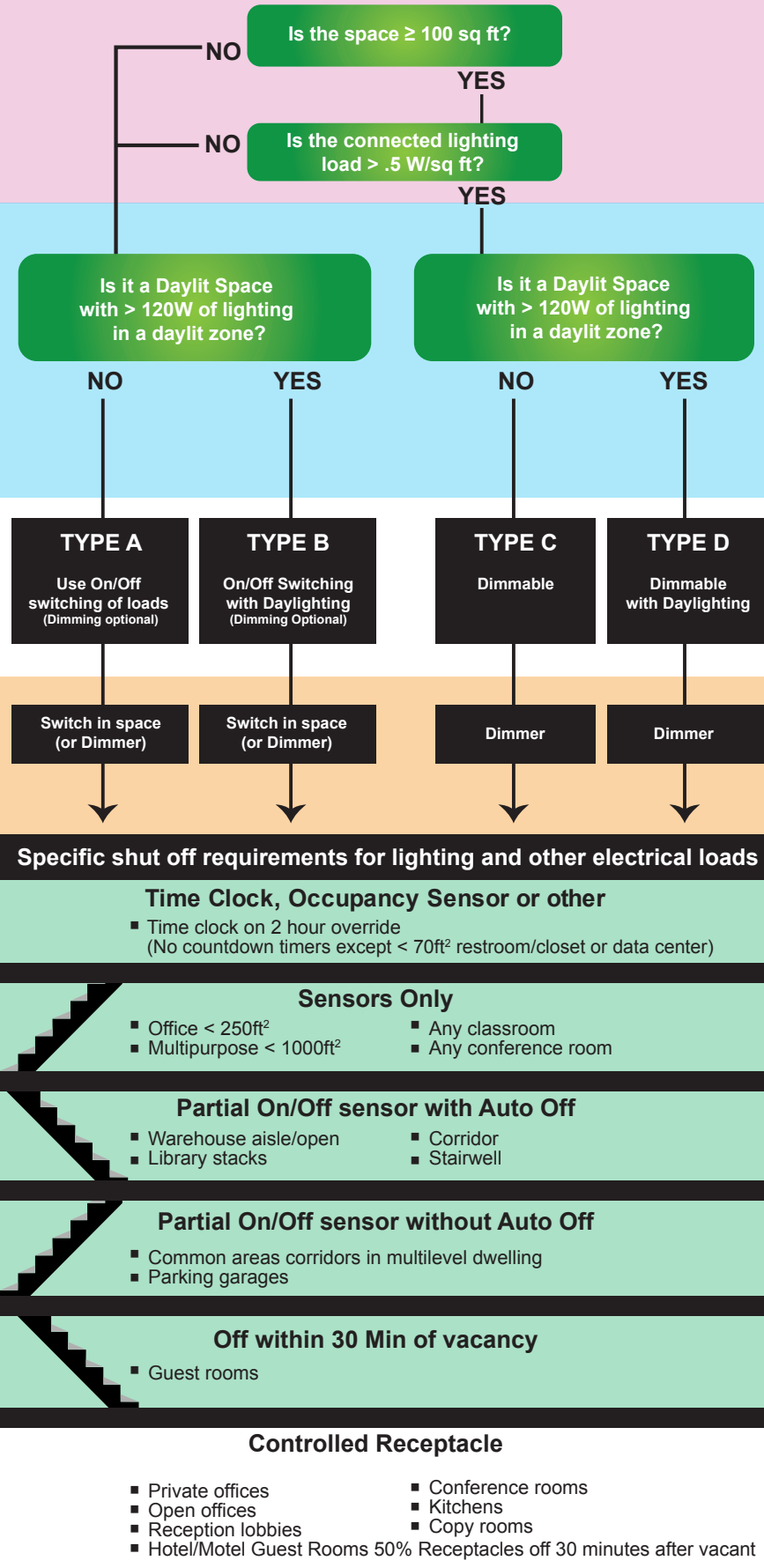
- Glazing in room is < 24 ft²
- Parking Garage: when daylight > 150% of design electric light, turn off lighting

Primary Exceptions:

- .2W/ft² designated as emergency egress

Primary Exceptions:

- 24/365 operations
- .05W/ft² office bldgs security/emergency egress
- Max zone size 20,000 ft² for Malls, Auditoriums, Industrial, Single Tenant Retail and Arenas



Note:

This infographic is for informational purposes. Always refer to the code for specific requirements or contact your local WattStopper representative.