Lighting Auto Off Control – Occupancy Sensor or Time Switch

**C405.2.1 Occupancy Sensor Controls**
- Lights auto off within 30 minutes (C405.2.1.1.1)
- Manual turn off (C405.2.1.1.3)

**C405.2.1.1 Man On or Partial Auto On**
- Manual off can be permitted for select spaces

**C405.2.1.2 Warehouse Aisle and Open Area**
- Automatically reduce lighting ≥ 50% when unoccupied

**Lighting Full Auto On Only Permitted for:**
- Public corridors
- Primary entrances
- Restaurants
- Where manual on would endanger safety or security

Primary Exceptions:
- Where full auto on is permitted, manual off or partial auto on is not required

If Occupancy Sensor Not Required or Preferred, Time Switch Auto Off is Required as Follows

**C405.2.2 Time Switch Controls**
- Provide a manual override switch
- Override for ≤ 2 hours
- Control area ≤ 5,000ft²

**C405.2.2.2 Manual Light Reduction Control**
- Uniformly dim or switch off ≥ 50% of lighting

**C405.2.2.3 Manual Lighting Controls**
- Readily accessible to occupants
- Controlled lighting is visible from manual control

**C405.2.3 Daylight Responsive Control**
- Automatically reduce lighting with daylight contribution
- Must continuously dim offices, classrooms, labs, library reading rooms ≤ 15%
- Either continuous dimming or on/off control for all other space types
- Capable of complete lighting shut off
- Authorized calibration access within controlled space

Primary Exceptions:
- Only one luminaire ≥ 100W
- Space lighting ≤ 0.6W/ft²
- Daylight-responsive control zones
- The following space types:
  - Corridors – Equipment rooms
  - Public lobbies – Electric/mech rooms

**C405.2.4 Specific Application Lighting**
- Control independent from other lighting in the space

**Required for the Following Lighting:**
- Display and accent
- Lighting for education
- Plant growth
- Supplemental task
- Food warming

**Required for the Following Space Types:**
- Conference/meeting
- Private offices
- Locker rooms
- Class/lecture/Training
- Office
- Conference/masting
- Copy/print/room
- Lunch and break rooms
- Private offices
- Lobby
- Storage rooms
- Janitorial closets
- Locker rooms
- Spaces ≤ 300ft²
- Warehouses

Primary Exceptions:
- Overlapping units, security and emergency areas; exit stairs, ramps and passageways; emergency egress

Other Lighting Control Requirements

**C405.2.4.3 Hotel/Motel and Guest Suites**
- Master control device turns off all installed luminaires and switched receptacles within 20 minutes of occupants leaving

Exceptions:
- Lighting and switched receptacles controlled by a captive key system

**C405.2.5 Exterior Lighting Controls**
- Auto off when daylight available
- Facade, landscape lights auto off as a function of dusk/dawn and open/close time
- Reduce all other lighting ≥ 30% no later than midnight to 6AM, one hour after closing to one hour before opening, or when no activity is detected for > 15 minutes

Exceptions:
- Emergency lighting normally off
- Lighting for health and safety
- Covered vehicle entrances
- Building/parking structure exits for safety, security, or emergency adaptation

**C406.1 Additional Efficiency Package**
- Meet the following:
  1. More efficient HVAC performance
  2. Reduced lighting power density
  3. Enhanced digital lighting controls:
     - Continuous dimming, individually addressable luminaires, daylight responsive, digital recommissioning, load shedding, individual user control, digital occupancy sensor reconfigurable
  4. On-site renewable energy
  5. Dedicated outdoor air provision
  6. High-efficiency service water heating

**C408.3 Lighting System Functional Testing**
- Before final inspection, a registered design professional provides evidence that lighting controls meet performance criteria within 90 days after certificate of occupancy

Note: This infographic is for informational purposes only. Always refer to the code for specific requirements or contact your local Wattstopper representative.
IECC is an acronym for the International Energy Conservation Code.