Wattstopper® Quick Guide to FLORIDA ENERGY CODE (2017)

Commercial Lighting and Electrical Control Requirements

Scope: Lighting controls for interior and exterior applications and electrical distribution systems. Alteration of ≥ 50% luminaire replacement or ≥ 10% of new lighting system luminaires.

Exceptions: Commercial building dwelling units; continuously lift security and emergency areas; exit stairs, ramps, and passageways; emergency egress

Lighting Auto Off Control – Occupancy Sensor or Time Switch

C405.2.1 Occupancy Sensor Controls
- Lights auto off within 90 minutes (C405.2.1.1)
- Manual turn off (C405.2.1.3)

Required for the Following Space Types:
- Classrooms/training
- Conference/meeting
- Copy/print rooms
- Lounges

- Lunch and break rooms
- Private offices
- Restrooms
- Storage rooms
- Search rooms
- Janitorial areas
- Lobbies
- Spaces ≤ 1500 ft²

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

C405.2.1.1 Manual On or Partial Auto On
- Manual on or partial auto on at 50% power

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

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

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

Each aisle independently controlled, cannot control lighting beyond aisles

Primary Exceptions:
- No full luminary with auto on or partial auto on is permitted off provisions of C405.2.1.1

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 ≤ 5,000 ft²

Primary Exceptions:
- Sleeping units, patient care areas
- Where auto off would endanger safety or security
- 24/7 operations
- Shop and laboratory areas

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

Choose between switching or dimming light reduction controls

Note: Warehouse light reduction is automatically controlled under occupancy sensor control, section C405.2.1.2

Primary Exceptions:
- One luminaire ≤ 100W or lighting ≤ 0.4W/ft²
- Daylight/occupancy control zones
- The following space types:
  - Corridors - Equipment rooms
  - Public toilets - Electrical/tech rooms

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

Choose between switching or dimming manual controls

Primary Exceptions:
- Remote control allowed if lighting served is identified and status indicated

C405.2.3 Daylight Responsive Control
- Automatic dimming of lighting in offices, classrooms, labs, library reading rooms, all other space types may require automatic dimming or daylight control
- Capable of completing lighting shut off
- Authorized calibration access within controlled spaces

Primary Exceptions:
- Health and patient care spaces
- Dwelling units, patient care areas
- Specific application lighting

C405.2.4 Application Lighting
- Controls independent of other lighting in the space

Primary Exceptions:
- None

C405.6.1 (ASHRAE 90.1, 8.4.2) Automatic Receptacle Control
- All areas ≥ 60% of recreation and ≥ 25% of leisure to modular furniture not shown on the plans, shall comply within 30 minutes of occupants leaving or by 10:00PM
- 150W controlled switch has a 2 hour override, control area ≤ 5,000 ft² but not more than one floor

Primary Exceptions:
- Equipment operating 24/7
- Where auto control would endanger safety or security

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
-· Facades, landscape lights auto off as a function of dusk/dawn and open/closed times
-· 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 structures units for safety, security, or eye adaptation

C406.1 Additional Efficiency Packages
- Comply with one of the following:
  1. More efficient HVAC performance
  2. Reduced lighting power density
  3. Enhanced digital lighting controls
  4. On-site renewable energy
  5. Dedicated outdoor air provision
  6. High-efficiency washwater heating

C408.3 Lighting System Functional Testing
- Before final inspection, a registered design professional provides evidence that lighting controls have been tested, calibrated, adjusted, programmed, and are in working condition
- Test occupancy sensors C406.3.1.1
- Test auto time switch C406.3.1.2
- Test daylight responsive C406.3.1.3

Documentation Requirements
- Provide owner documents certifying 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.

ECC is an acronym for the International Energy Conservation Code.