### Wattstopper® Quick Guide to

# ASHRAE 90.1 (2010)

## Commercial Lighting and Electrical Control Requirements

**Scope:** Interior building spaces, exterior building features, exterior building grounds. Interior space lighting alterations where 10% or more of the connected lighting is altered. **Exceptions:** Emergency lighting off during normal operation, lighting within dwelling units, lighting required by health or life safety, gas lighting



## **Other Lighting Control Requirements**

## 9.4.1.3

#### Parking Garage Lighting Control

- Automatic lighting shut off per 9.4.1.1
- Automatically reduce lighting ≥ 30% when no activity detected within 30 minutes and with the area controlled ≤ 3,600ft<sup>2</sup>
- Daylight transition zone lighting auto on from daylight hours to sunset
- Within 20ft of perimeter wall openings, automatically reduce lighting power in response to daylight

#### Exceptions:

- Non-parking daylight transition zones
- HID lamps of < 150W or induction lamps

## 9.4.1.6(c)

#### **Guestroom Control**

Entry door control device that controls all lighting and switched receptacles

#### Bathroom Control

Guestroom bathrooms have separate control to auto off all bathroom lighting within 60 minutes of occupants leaving

#### **Bathroom Exceptions:**

Nightlights up to 5W per bathroom

## 9.4.1.7

#### **Exterior Lighting Controls**

- Auto off when daylight is available
- Façade, landscape lighting auto off between midnight or business close and 6AM or business open
- Reduce all other lighting and signage ≥ 30% no later than midnight or within one hour after business operations end to 6AM or business opening, or when no detected activity for > 15 minutes

#### Exceptions:

• Covered vehicle entrances, or exits, for safety, security, or eye adaptation

## 9.4.4

#### **Functional Testing**

Lighting controls tested for proper calibration, adjustment, programming, and working condition

- Confirm occupancy sensor parameters and performance (see 9.4.4(a))
- Confirm time switch programming for lighting shut off (see 9.4.4(b))
- Confirm daylight controls meet criteria (see 9.4.4(c))

Testing party shall not be involved with project design or construction and provides certifying document that lighting controls meet the performance criteria

Note: This infographic is for informational purposes only. Always refer to the code for specific requirements or contact your local Wattstopper representative. ASHRAE is an acronym for the American Society of Heating, Refrigeration, and Air Conditioning Engineers.

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