Florida Building Code
nLight® Applications Guide
It's not just smarter. It's easier.

Acuity Controls is advanced lighting controls technology, service and support from a single expert source. We offer one of the industry’s most extensive product portfolios for indoor and outdoor applications; single rooms to campuses to municipalities. Our product solutions include occupancy and photosensors, centralized and distributed systems, panels, fixture-integrated, wired and wireless controls that simply work.
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About Florida Building Code 2014
The Florida Building Code replaced Florida’s patchwork of codes and regulations that were developed, amended, administered and enforced by more than 400 local jurisdictions and state agencies with building code regulation responsibilities. The current Code is a single statewide code based on national model codes and consensus standards, amended for Florida specific needs for the design and construction of buildings. The Code is designed to make the local building process more efficient, increase accountability, bring new and safer products to the market, increase consumer confidence, and better protect the residents of this natural-disaster prone state.

About this Guide
Acuity Controls offers the nLight Florida Building Code 5th Edition (2014) Application Guide to facilitate quicker and easier code compliant lighting control solutions to aid in complying with the requirements of FBC 5th Edition (2014). Use this guide as a quick reference of typical nLight layouts that can help get your project on the path towards compliance. The Acuity Controls Design Services Team is also available to support engineers and contractors with detailed design, submittal, and installation. For additional information, please contact your Acuity Brands Sales Representative.

About nLight
The nLight networked digital lighting control system is easy-to-use, easy-to-install and saves energy. Using only standard CAT-5e cable, nLight networks together occupancy sensors, wall stations, and digital LED luminaires to create a digital lighting system with unmatched flexibility! nLight easily scales from one room to an entire campus. Create a lighting control solution that’s perfect for your space and need.
The chart below is an overview of the Code Requirements for Common Building Spaces. Please use this information as a guide. For specific code requirements please refer to the Florida Building Code 5th Edition (2014).

<table>
<thead>
<tr>
<th>Control Requirement*</th>
<th>Code Provision</th>
<th>Code Summary*</th>
<th>Space Type</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Private Office</td>
</tr>
<tr>
<td>Manual-On or Partial-On</td>
<td>C405.2.2.2</td>
<td>Automatically controlled spaces shall be either manual on or automatically turn the lighting on to not more than 50% power.</td>
<td>✓</td>
</tr>
<tr>
<td>Full Automatic-On</td>
<td>C405.2.2.2</td>
<td>Automatically controlled spaces are allowed to turn on to full.</td>
<td></td>
</tr>
<tr>
<td>Full Auto-Off via Occupancy Sensor</td>
<td>C405.2.2.2</td>
<td>Fixtures must automatically turn off within 30 minutes of all occupants leaving the space.</td>
<td>✓</td>
</tr>
<tr>
<td>Automatic Time Switch Control</td>
<td>C405.2.2.1</td>
<td>Each area of the building not provided with occupant sensor controls shall be provided with time switch controls. These areas must also be provided with a manual override switch.</td>
<td>✓</td>
</tr>
<tr>
<td>Manual Lighting Reduction</td>
<td>C405.2.1.2</td>
<td>Spaces shall have a manual control that allows the occupant to reduce the connected lighting load uniformly by at least 50%.</td>
<td>✓</td>
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<tr>
<td>Local or Remote Switch</td>
<td>C405.2.1.1</td>
<td>Areas shall incorporate a manual control to allow occupants to turn fixtures off.</td>
<td>✓</td>
</tr>
<tr>
<td>Daylight-Zone Controls</td>
<td>C405.2.2.3.1/2/3</td>
<td>Daylight-zone controls shall be provided within each space with sidelight and toplight daylight zones. Daylight control must control zone to less than 35% of normal power at max output.</td>
<td>✓</td>
</tr>
</tbody>
</table>

*Note: This summary is for general information purposes only and is provided without any warranty as to accuracy, completeness, or otherwise. The user should read the applicable code sections for more complete and detailed descriptions of code requirements and exceptions and should consult with a professional engineering or other competent advisor before making any decision or taking any action based on this summary.
How to Use This Guide

Quick summary of applicable code sections
Room description
Room layout with devices & locations
Room layout diagram with control, fixture, and wiring type detail
Required list of devices in order to implement room layout design above
Operational details describe the functionality provided by the equipment specified in the solution
Additional options that add control capacity beyond code requirements

PRIVATE OFFICE: No Windows, nLight Enabled Fixtures

Supports the Following Requirements:
- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Manual-On or Partial On to no more than 50% Power via Occupancy Sensor (C405.2.2.2)

Bill of Materials

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Qty</th>
<th>Product #</th>
<th>Description</th>
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<td>4</td>
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<td>nLight Enabled Fixture</td>
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<tr>
<td></td>
<td>1</td>
<td>nPODM DX</td>
<td>On/Off &amp; Raise/Lower WallPod</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>nCM PDT 9 (RJB)</td>
<td>Dual Technology Occupancy Sensor</td>
</tr>
</tbody>
</table>

Operations Details:
- Fixtures are dimmable
- Fixtures are controlled together or independently
- Maximum level can be limited to 80%
- Optional automatic lumen compensation

Occupancy Control:
- Fixtures must be turned on manually (or optionally can be configured to come on automatically to 50%)
- Fixtures automatically turn off when room becomes vacant

Daylight Control:
- Not required for offices without windows or that have loads <150W in sidelight zones

Manual Control:
- On/Off & raise/lower control of fixtures

Additional Options:
- Surface or recessed mount sensors also available
- Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control order fixtures with n80EMG or n100EMG option

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Florida Building Code: nLight Applications Guide
**PRIVATE OFFICE: No Windows, nLight Enabled Fixtures**

Supports the Following Requirements:

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Manual-On or Partial On to no more than 50% Power via Occupancy Sensor (C405.2.2.2)

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<td>nPODM DX</td>
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<td>nCM PDT 9 (RJB)</td>
<td>Dual Technology Occupancy Sensor</td>
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**OPERATION DETAILS:**

**Fixtures:**
- All fixtures are dimmable
- All fixtures are controlled together or independently
- Maximum level can be limited to 80%
- Optional automatic lumen compensation

**Occupancy Control:**
- Fixtures must be turned on manually (or optionally can be configured to come on automatically to no more than 50% power)
- Fixtures automatically turn off within 30 minutes when room becomes vacant

**Daylight Control:**
- Not required for offices without windows or skylights

**Manual Control:**
- On/off & raise/lower control of fixtures

**ADDITIONAL OPTIONS:**
- Surface or recessed mount sensors also available
- Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control order fixtures with -n80EMG or -n100EMG option
PRIVATE OFFICE: No Windows, 0-10V Dimming Fixtures

Supports the Following Requirements:

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Manual-On or Partial On to no more than 50% Power via Occupancy Sensor (C405.2.2.2)

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<td>1</td>
<td>nCM PDT 9 (RJB)</td>
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OPERATION DETAILS:

- **Fixtures:**
  - All fixtures are dimmable
  - All fixtures are controlled together
  - Maximum level can be limited to 80%

- **Occupancy Control:**
  - Fixtures must be turned on manually (or optionally can be configured to come on automatically to no more than 50% power)
  - Fixtures automatically turn off within 30 minutes when room becomes vacant

- **Daylight Control:**
  - Not required for offices without windows or skylights

- **Manual Control:**
  - On/off & raise/lower control of fixtures

ADDITIONAL OPTIONS:

- Surface or recessed mount sensors also available
- Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control add a nPP16 D ER pack
Supports the Following Requirements:

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Manual-On or Partial On to no more than 50% Power via Occupancy Sensor (C405.2.2.2)
- Automatic Daylight Controls (C405.2.2.3.2)

OPERATION DETAILS:

- Fixtures:
  - All fixtures are dimmable
  - All fixtures are controlled together or independently
  - Maximum level can be limited to 80%
  - Optional automatic lumen compensation

- Occupancy Control:
  - Fixtures must be turned on manually (or optionally can be configured to come on automatically to no more than 50% power)
  - Fixtures automatically turn off within 30 minutes when room becomes vacant

- Daylight Control:
  - Use of automatic daylighting controls requires continuous dimming capable of reducing the daylight zone lighting to less than 35% of max output or step-dimming where one control step is between 50-70% of max output and the other control step is less than 35% of max output
  - Lights in daylight zone are controlled separately from general lighting
  - Manual control of daylight zone lighting shall be provided if automatic controls are not used

ADDITIONAL OPTIONS:

- Surface or recessed mount sensors also available
- Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control order fixtures with n80EMG or n100EMG option

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<td>On/Off &amp; Raise/Lower WallPod</td>
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<td>![Symbol]</td>
<td>1</td>
<td>nCM PDT 9 ADCX (RJB)</td>
<td>Dual Technology Occupancy Sensor with Automatic Dimming Photocell</td>
</tr>
</tbody>
</table>

Supports the Following Requirements:

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Manual-On or Partial On to no more than 50% Power via Occupancy Sensor (C405.2.2.2)
- Automatic Daylight Controls (C405.2.2.3.2)
Supports the Following Requirements:

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Manual-On or Partial On to no more than 50% Power via Occupancy Sensor (C405.2.2.2)
- Automatic Daylight Controls (C405.2.2.3.2)

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<td>nCM PDT 9 ADCX (RJB)</td>
<td>Dual Technology Occupancy Sensor with Automatic Dimming Photocell</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OPERATION DETAILS:</th>
</tr>
</thead>
</table>

- **Fixtures:**
  - All fixtures are dimmable
  - All fixtures are controlled together within daylight zone
  - Maximum level can be limited to 80%

- **Occupancy Control:**
  - Fixtures must be turned on manually or optionally can be configured to come on automatically to no more than 50% power
  - Fixtures automatically turn off within 30 minutes when room becomes vacant

- **Daylight Control:**
  - Use of automatic daylighting controls requires continuous dimming capable of reducing the daylight zone lighting to less than 35% of max output or step-dimming where one control step is between 50-70% of max output and the other control step is less than 35% of max output
  - Lights in daylight zone are controlled separately from general lighting
  - Manual control of daylight zone lighting shall be provided if automatic controls are not used

- **Manual Control:**
  - On/off & raise/lower control of fixtures

<table>
<thead>
<tr>
<th>ADDITIONAL OPTIONS:</th>
</tr>
</thead>
</table>

- Surface or recessed mount sensors also available
- Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control add a nPP16 D ER pack
Supports the Following Requirements:

- Local Switch (C405.2.1.1)
- Manual Lighting Reduction - unless Occupancy Sensors are used (C405.2.1.2)
- Automatic Daylight Controls (C405.2.2.3.2)
- Automatic Time Switch Control - unless Occupancy Sensors are used (C405.2.2.1)

Bill of Materials

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<td>nLight Enabled Fixture</td>
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<td>nLight Enabled Fixture with EMG Option</td>
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<td>nPODM DX</td>
<td>On/Off &amp; Raise/Lower WallPod</td>
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<td>nCM PDT 9 (RJB)</td>
<td>Dual Technology Occupancy Sensor</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>nCM ADCX (RJB)</td>
<td>Automatic Dimming Control Photocell</td>
</tr>
</tbody>
</table>

OPERATION DETAILS:

- Fixtures:
  - All fixtures are dimmable
  - All fixtures are controlled together or independently
  - Maximum level can be limited to 80%
  - Optional automatic lumen compensation

- Occupancy Control (not required):
  - Fixtures are permitted to go to full brightness when occupied
  - Fixtures automatically turn off or optionally can be configured to drop to low dim setting when room becomes vacant

- Daylight Control:
  - Use of automatic daylighting controls requires continuous dimming capable of reducing the daylight zone lighting to less than 35% of max output or step-dimming where one control step is between 50-70% of max output and the other control step is less than 35% of max output
  - Lights in daylight zone are controlled separately from general lighting
  - Manual control of daylight zone lighting shall be provided if automatic controls are not used

- Manual Control:
  - Master on/off & raise/lower control of fixtures
  - Optional individual row control (add nPODM 4P DX)

ADDITIONAL OPTIONS:

- Surface or recessed mount sensors also available
- Add Graphic WallPod (model npod gfx) for individual row and up to 16 scene control
- Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
**Supports the Following Requirements:**

- Local Switch (C405.2.1.1)

- Manual Lighting Reduction - unless Occupancy Sensors are used (C405.2.1.2)

- Automatic Daylight Controls (C405.2.2.3.2)

- Automatic Time Switch Control - unless Occupancy Sensors are used (C405.2.2.1)

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<td>nPP16 D</td>
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<td>nPP16 D ER</td>
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<td>Dual Technology Occupancy Sensor</td>
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<td><img src="image5.png" alt="Symbol" /></td>
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<td>nCM ADCX (RJB)</td>
<td>Automatic Dimming Control Photocell</td>
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</table>

**OPERATION DETAILS:**

- **Fixtures:**
  - All fixtures are dimmable
  - Each row controlled independently
  - Maximum level can be limited to 80%

- **Occupyancy Control (not required):**
  - Fixtures are permitted to go to full brightness when occupied
  - Fixtures automatically turn off or optionally can be configured to drop to low dim setting when room becomes vacant

- **Daylight Control:**
  - Use of automatic daylighting controls requires continuous dimming capable of reducing the daylight zone lighting to less than 35% of max output or step-dimming where one control step is between 50-70% of max output and the other control step is less than 35% of max output
  - Lights in daylight zone are controlled separately from general lighting
  - Manual control of daylight zone lighting shall be provided if automatic controls are not used
  - Not required for offices without windows or skylight

- **Manual Control:**
  - Master on/off & raise/lower control of fixtures
  - Optional individual row control (add npodm 4P dx)

- **ADDITIONAL OPTIONS:**
  - Surface or recessed mount sensors also available
  - Add Graphic WallPod (model npodm GTX) for individual row and up to 16 scene control
  - Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
Supports the Following Requirements:

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Manual-On or Partial On to no more than 50% Power via Occupancy Sensor (C405.2.2.2)
- Automatic Daylight Controls (C405.2.2.3.2)

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<tr>
<td><img src="image" alt="nPODM 2P DX icon" /></td>
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<td>nPODM 2P DX</td>
<td>Dual On/Off &amp; Raise/Lower WallPod</td>
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<tr>
<td><img src="image" alt="nCM PDT 9 (RJB) icon" /></td>
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<td>Dual Technology Occupancy Sensor</td>
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<td>nCM ADCX (RJB)</td>
<td>Automatic Dimming Control Photocell</td>
</tr>
</tbody>
</table>

Options

| ![nCM ADCX (RJB) icon](image) | 1 | nCM ADCX (RJB) | Automatic Dimming Control Photocell |

OPERATION DETAILS:

- **Occupancy Control:**
  - Fixtures must be turned on manually (or optionally can be configured to come on automatically to no more than 50% power)
  - Fixtures automatically turn off within 30 minutes when room becomes vacant

- **Daylight Control:**
  - Use of automatic daylighting controls requires continuous dimming capable of reducing the daylight zone lighting to less than 35% of max output or step-dimming where one control step is between 50-70% of max output and the other control step is less than 35% of max output
  - Lights in daylight zone are controlled separately from general lighting
  - Manual control of daylight zone lighting shall be provided if automatic controls are not used
  - Not required for offices without windows or skylights

- **Manual Control:**
  - On/off & raise/lower control of two groups of fixtures

ADDITIONAL OPTIONS:

- Surface or recessed mount sensors also available
- Add nPODM 4S for four scene or nPOD GFX for touch screen control
- Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control order fixtures with -n80EMG or -n100EMG option
**Supports the Following Requirements:**

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Manual-On or Partial On to no more than 50% Power via Occupancy Sensor (C405.2.2.2)
- Automatic Daylight Controls (C405.2.2.3.2)

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</tbody>
</table>

**Options**

| ![nCM ADCX (RJB)](image) | 1 | nCM ADCX (RJB) | Automatic Dimming Control Photocell |

**OPERATION DETAILS:**

- **Fixtures:**
  - All fixtures are dimmable
  - Each row controlled independently
  - Maximum level can be limited to 80%

- **Occupancy Control:**
  - Fixtures must be turned on manually (or optionally can be configured to come on automatically to no more than 50% power)
  - Fixtures automatically turn off within 30 minutes when room becomes vacant

- **Daylight Control:**
  - Use of automatic daylighting controls requires continuous dimming capable of reducing the daylight zone lighting to less than 35% of max output or step-dimming where one control step is between 50-70% of max output and the other control step is less than 35% of max output
  - Lights in daylight zone are controlled separately from general lighting
  - Manual control of daylight zone lighting shall be provided if automatic controls are not used
  - Not required for offices without windows or skylights

- **Manual Control:**
  - On/off & raise/lower control of each row

**ADDITIONAL OPTIONS:**

- Surface or recessed mount sensors also available
- Add nPODM 4S for four scene or nPOD GFX for touch screen control
- Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control add a nPP16 D ER pack
Supports the Following Requirements:

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Manual-On or Partial On to no more than 50% Power via Occupancy Sensor (C405.2.2.2)
- Automatic Daylight Controls (C405.2.2.3.2)

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<td>nLight Enabled Fixture with the EMG Option</td>
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<td>[ ]</td>
<td>1</td>
<td>nPODM DX</td>
<td>On/Off &amp; Raise/Lower WallPod</td>
</tr>
<tr>
<td>[ ]</td>
<td>1</td>
<td>nWV PDT 16</td>
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**Options**

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<tr>
<td>[ ]</td>
<td>1</td>
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<tr>
<td>[ ]</td>
<td>1</td>
<td>nCM ADCX (RJB)</td>
<td>Automatic Dimming Control Photocell</td>
</tr>
</tbody>
</table>

**Operation Details:**

- **Fixtures:**
  - All fixtures are dimmable
  - Each row/fixture controlled independently
  - Maximum level can be limited to 80%
  - Optional automatic lumen compensation

- **Occupancy Control:**
  - Fixtures must be turned on manually (or optionally can be configured to come on automatically to no more than 50% power)
  - Fixtures automatically turn off within 30 minutes when room becomes vacant

- **Daylight Control:**
  - Use of automatic daylighting controls requires continuous dimming capable of reducing the daylight zone lighting to less than 35% of max output or step-dimming where one control step is between 50-70% of max output and the other control step is less than 35% of max output
  - Lights in daylight zone are controlled separately from general lighting
  - Manual control of daylight zone lighting shall be provided if automatic controls are not used
  - Not required for offices without windows or skylights

- **Manual Control:**
  - Master on/off & raise/lower control of entire room
  - Optional 4 scene control

- **ADDITIONAL OPTIONS:**
  - Surface or recessed mount sensors also available
  - Add additional relay pack (model nPP16D) if a white board lighting zone also required
  - Add graphic wallpod (model nPOD GFX) for individual row and up to 16 scene control
  - Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)

Note: Not all emergency nLight enabled fixtures require a normal monitoring feed. Refer to data sheet for additional information.
CLASSROOM with 0-10V Dimming Fixtures

Supports the Following Requirements:

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Manual-On or Partial On to no more than 50% Power via Occupancy Sensor (C405.2.2.2)
- Automatic Daylight Controls (C405.2.2.3.2)

Bill of Materials

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<thead>
<tr>
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<tr>
<td><img src="image" alt="nPP16 D Relay Module with 0-10V Dimming Output" /></td>
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<td>nPP16 D</td>
<td>Relay Module with 0-10V Dimming Output</td>
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<td><img src="image" alt="nPP16 D ER Emergency Relay Module with 0-10V Dimming Output" /></td>
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<td>nPODM DX</td>
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</tr>
<tr>
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Options

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<td>Teacher Station — 4 Scene Control Master On/Off &amp; Raise/Lower</td>
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<tr>
<td><img src="image" alt="nCM ADCX (RJB) Automatic Dimming Control Photocell" /></td>
<td>1</td>
<td>nCM ADCX (RJB)</td>
<td>Automatic Dimming Control Photocell</td>
</tr>
</tbody>
</table>

OPERATION DETAILS:

- **Fixtures:**
  - All fixtures are dimmable
  - Each row controlled independently
  - Maximum level can be limited to 80%

- **Occupancy Control:**
  - Fixtures must be turned on manually (or optionally can be configured to come on automatically to no more than 50% power)
  - Fixtures automatically turn off within 30 minutes when room becomes vacant

- **Daylight Control:**
  - Use of automatic daylighting controls requires continuous dimming capable of reducing the daylight zone lighting to less than 35% of max output or step-dimming where one control step is between 50-70% of max output and the other control step is less than 35% of max output
  - Manual control of daylight zone lighting shall be provided if automatic controls are not used
  - Lights in daylight zone are controlled separately from general lighting
  - Not required for offices without windows or skylights

- **Manual Control:**
  - Master on/off & raise/lower control of entire room
  - Optional 4 scene control

ADDITIONAL OPTIONS:

- Surface or recessed mount sensors also available
- Add additional relay pack (model nPP16 D) if a white board lighting zone also required
- Add graphic wallpod (model nPOD GFX) for individual row and up to 16 scene control
- Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
Supports the Following Requirements:

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Manual-On or Partial On to no more than 50% Power via Occupancy Sensor (C405.2.2.2)
- Automatic Daylight Controls (C405.2.2.3.2)

Bill of Materials

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<td>Four Relay Module With 0-10V Dimming Output &amp; EM Options</td>
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Options

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<td>Teacher Station — 4 Scene Control Master On/Off &amp; Raise/Lower</td>
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<tr>
<td><img src="image5" alt="Symbol" /></td>
<td>1</td>
<td>nCM ADCX (RJB)</td>
<td>Automatic Dimming Control Photocell</td>
</tr>
</tbody>
</table>

**Operation Details:**

**Fixtures:**
- All fixtures are dimmable
- Each row controlled independently
- Maximum level can be limited to 80%

**Occupancy Control:**
- Fixtures must be turned on manually (or optionally can be configured to come on automatically to no more than 50% power)
- Fixtures automatically turn off within 30 minutes when room becomes vacant

**Daylight Control:**
- Use of automatic daylighting controls requires continuous dimming capable of reducing the daylight zone lighting to less than 35% of max output (peak daylight)
- Use of daylight control is between 50-70% of max output and the other control step is less than 35% of max output
- Lights in daylight zone are controlled separately from general lighting
- Manual control of daylight zone lighting shall be provided if automatic controls are not used
- Not required for offices without windows or skylights

**Manual Control:**
- Master On/Off & Raise/Lower control of entire room
- Optional 4 scene control

**ADDITIONAL OPTIONS:**
- Surface or recessed mount sensors also available
- Add additional relay pack (model nPP16 D) if a white board lighting zone also required
- Add graphic wallpod (model nPOD GFX) for individual row and up to 16 scene control
- Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control add a Voltage Barrier to nPANEL 4
Supports the Following Requirements:

- Automatic On to 100% Power via Occupancy Sensor (C405.2.2.2)

Bill of Materials

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<thead>
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<td>Relay Module with 0-10V Dimming Output</td>
</tr>
<tr>
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<td>1</td>
<td>nCM 10 (RJB)</td>
<td>PIR Extended Range Occupancy Sensor</td>
</tr>
</tbody>
</table>

// OPERATION DETAILS:

**Fixtures:**
- All fixtures are dimmable
- Maximum level can be limited to 80%

**Occupancy Control:**
- Fixtures automatically go to full bright when occupied
- Fixtures can be configured to drop to low dim setting when space becomes vacant

// ADDITIONAL OPTIONS:

- Surface or recessed mount sensors also available
- Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control add a nPP16 D ER pack
- Add nCM ADCX (RJB) for daylight zone control (C405.2.2.3.2)
Supports the Following Requirements:

- Automatic On to 100% Power via Occupancy Sensor (C405.2.2.2)

Bill of Materials

<table>
<thead>
<tr>
<th>Symbol</th>
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<tr>
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<td>Various; see Appendix A</td>
<td>nLight Enabled Fixture</td>
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<tr>
<td></td>
<td>1</td>
<td>nCM PDT 10 ADCX (RJB)</td>
<td>Dual Technology Extended Range Occupancy Sensor</td>
</tr>
</tbody>
</table>

OPERATION DETAILS:

Fixtures:
- All fixtures are dimmable
- All fixtures are controlled together or independently
- Maximum level can be limited to 80%
- Optional automatic lumen compensation

Occupancy Control (not required):
- Fixtures automatically go to full bright when occupied
- Fixtures can be configured to low dim setting when space becomes vacant

ADDITIONAL OPTIONS:
- Surface or recessed mount sensors also available
- Space can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control, order fixtures with n80EMG or n100EMG option
Supports the Following Requirements:

- Automatic On to 100% Power via Occupancy Sensor (C405.2.2.2)

Bill of Materials

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Qty</th>
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<tr>
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<td>Relay Module with 0-10V Dimming Output</td>
</tr>
<tr>
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<td>1</td>
<td>nCM PDT 10 ADCX (RJB)</td>
<td>Dual Technology Extended Range Occupancy Sensor</td>
</tr>
</tbody>
</table>

_OPERATION DETAILS:

**Fixtures:**
- All fixtures are dimmable
- All fixtures are controlled together
- Maximum level can be limited to 80%

**Occupancy Control (not required):**
- Fixtures automatically go to full bright when occupied
- Fixtures can be configured to drop to low dim setting when space becomes vacant

_ADDITIONAL OPTIONS:

- Surface or recessed mount sensors also available
- Space can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control add a nPP16 D ER pack
PRIVATE / SINGLE RESTROOM with nLight Enabled Fixture

Supports the Following Requirements:

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Automatic On to 100% Power via Occupancy Sensor (C405.2.2.2)

Bill of Materials

<table>
<thead>
<tr>
<th>Symbol</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>nLight Enabled Fixture</td>
</tr>
<tr>
<td><img src="image2.png" alt="Symbol" /></td>
<td>1</td>
<td>nWSX PDT LV DX</td>
<td>Dual Technology Occupancy Wall Switch w/ Raise/Lower</td>
</tr>
</tbody>
</table>

OPERATION DETAILS:

Fixtures:
- All fixtures are dimmable
- Maximum level can be limited to 80%
- Optional automatic lumen compensation

Occupancy Control:
- Fixtures automatically go to full bright when occupied (or optionally can be configured to come on automatically to 50%)
- Fixtures automatically turn off within 30 minutes when space becomes vacant

Manual Control:
- On/off & raise/lower control of fixtures

ADDITIONAL OPTIONS:
- Surface or recessed mount sensors also available
- Space can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control order fixtures with n80EMG or n100EMG option

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PRIVATE / SINGLE RESTROOM with Switching Only Fixture

Supports the Following Requirements:

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Automatic On to 100% Power via Occupancy Sensor (C405.2.2.2)

Bill of Materials

<table>
<thead>
<tr>
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<th>Qty</th>
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<td>1</td>
<td>nWSX PDT LV</td>
<td>Dual Technology Occupancy Wall Switch</td>
</tr>
</tbody>
</table>

// OPERATION DETAILS:

- Fixtures:
  - Switching only, no dimming
- Occupancy Control:
  - Fixtures automatically turn on when occupied
  - Fixtures automatically turn off within 30 minutes when space becomes vacant
- Manual Control:
  - On/off control of fixtures

// ADDITIONAL OPTIONS:

- Surface or recessed mount sensors also available
- Space can be connected to nLight backbone to enable network control or time schedules (C405.2.1.1)
- For emergency lighting control add a nPP16 ER pack
PUBLIC RESTROOM with nLight Enabled Fixtures

Supports the Following Requirements:

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Automatic On to 100% Power via Occupancy Sensor (C405.2.2.2)

Bill of Materials (Each Restroom)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Qty</th>
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<th>Description</th>
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<tr>
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<td>nLight Enabled Fixture</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>nPODM DX</td>
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<tr>
<td></td>
<td>2</td>
<td>nCM PDT 9 (RJB)</td>
<td>Dual Technology Occupancy Sensor</td>
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</tbody>
</table>

Operation Details:

Fixtures:
- All fixtures are dimmable
- All fixtures are controlled together or independently (per room)
- Maximum level can be limited to 80%
- Optional automatic lumen compensation

Occupancy Control:
- Fixtures automatically go to full bright when occupied (or optionally can be configured to come on automatically to 50%)
- Fixtures automatically turn off within 30 minutes when room becomes vacant

Manual Control:
- On/off & raise/lower control of fixtures (per room)

Additional Options:
- Surface or recessed mount sensors also available
- Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control order fixtures with -n80EMG or -n100EMG option

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Supports the Following Requirements:

- Full Auto-Off via Occupancy Sensor (C405.2.2.2)
- Local Switch (C405.2.1.1)
- Automatic On to 100% Power via Occupancy Sensor (C405.2.2.2)

Bill of Materials (Each Restroom)

<table>
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<td><img src="image" alt="Symbol" /></td>
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<td>Relay Module with 0-10V Dimming Output</td>
</tr>
<tr>
<td><img src="image" alt="Symbol" /></td>
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<td>nPODM DX</td>
<td>On/Off &amp; Raise/Lower WallPod</td>
</tr>
<tr>
<td><img src="image" alt="Symbol" /></td>
<td>2</td>
<td>nCM PDT 9 (RJB)</td>
<td>Dual Technology Occupancy Sensor</td>
</tr>
</tbody>
</table>

// OPERATION DETAILS:

Fixtures:
- All fixtures are dimmable
- All fixtures are controlled together (per room)
- Maximum level can be limited to 80%

Occupancy Control:
- Fixtures automatically go to full bright when occupied (or optionally can be configured to come on automatically to 50%)
- Fixtures automatically turn off within 30 minutes when room becomes vacant

Manual Control:
- On/off & raise/lower control of fixtures (per room)

// ADDITIONAL OPTIONS:

- Surface or recessed mount sensors also available
- Room can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control add a nPP16 D ER pack
Supports the Following Requirements:

- Automatic On to 100% Power via Occupancy Sensor (C405.2.2.2)

Bill of Materials

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<tr>
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<td>4</td>
<td>nCM 10 (RJB)</td>
<td>Extended Range PIR Occupancy Sensor</td>
</tr>
</tbody>
</table>

Operation Details:

- Fixtures:
  - All fixtures are dimmable
  - All fixtures are controlled together or independently
  - Maximum level can be limited to 80%
  - Optional automatic lumen compensation

- Occupancy Control:
  - Fixtures automatically go to full bright when occupied
  - Fixtures can be configured to drop to low dim setting when space becomes vacant

Additional Options:

- Surface or recessed mount sensors also available
- Space/zone can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control order fixtures with -n80EMG or -n100EMG option
- Add nCM ADCX (RJB) for daylight zone control (C405.2.2.3.2)
**Supports the Following Requirements:**

- Automatic On to 100% Power via Occupancy Sensor (C405.2.2.2)

**Bill of Materials**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Qty</th>
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<td>![Symbol]</td>
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<td>Relay Module with 0-10V Dimming Output</td>
</tr>
<tr>
<td>![Symbol]</td>
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<td>nCM 10 (RJB)</td>
<td>Extended Range PIR Occupancy Sensor</td>
</tr>
</tbody>
</table>

**OPERATION DETAILS:**

- **Fixtures:**
  - All fixtures are dimmable
  - All fixtures are controlled together
  - Maximum level can be limited to 80%

- **Occupancy Control:**
  - Fixtures automatically go to full bright when occupied
  - Fixtures can be configured to drop to low dim setting when space becomes vacant

**ADDITIONAL OPTIONS:**

- Surface or recessed mount sensors also available
- Space/zone can be connected to nLight backbone to enable network control or time schedules (C405.2.2.1)
- For emergency lighting control add a nPP16 DER
- Add nCM ADCX (RJB) for daylight zone control (C405.2.2.3.2)
**Programmable Timeclock Control:**

Although not pictured within each of the individual room design guides, each nLight Control Zone can be connected via an nLight backbone to create a networked nLight lighting control system capable of meeting the requirements of the Florida Building Code programmable timeclock provision (Section C405.2.2.1). A networked system also enables astronomical time clock control.

For additional information regarding building management integration or demand response features, please contact your Acuity Brands Sales Representative.

---

**nLight BLE Radio Module**

The nLight® nIO BT Bluetooth Low Energy (BLE) module enables wireless communication to an nLight zone of devices from a smartphone. The nLight smartphone app, nConfig, easily modifies the settings and operation of the devices in an nLight zone aiding in meeting energy code requirements.

---

**Bill of Materials**

<table>
<thead>
<tr>
<th>Symbol</th>
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<th>Description</th>
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<td>8-Port Backbone Bridge</td>
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<tr>
<td><img src="image" alt="Icon" /></td>
<td>1</td>
<td>nGWY2 KIT</td>
<td>Network Gateway Controller</td>
</tr>
</tbody>
</table>

The nLight BLE Module connects to an nLight zone of devices using CAT-5e cables and is powered directly off of the CAT-5e cables. Upon powering up the nIO BT communicates with the Acuity Controls smartphone app via Bluetooth Low Energy. The on-board blue LED indicates paired state, and pin code recognition ensures system security.
## APPENDIX A: nLight Enabled Fixtures

<table>
<thead>
<tr>
<th>Product Family</th>
<th>Fixture Series</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Lithonia Lighting</td>
<td>AC Series</td>
<td>LED Recessed</td>
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<tr>
<td>Lithonia Lighting</td>
<td>AL Series</td>
<td>LED High Performance Architectural</td>
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<tr>
<td>Lithonia Lighting</td>
<td>ALLS</td>
<td>LED Surface Mount</td>
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<tr>
<td>Lithonia Lighting</td>
<td>AVLED</td>
<td>Avante® LED Recessed - Direct/Indirect</td>
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<tr>
<td>Lithonia Lighting</td>
<td>BZL Series</td>
<td>LED Recessed Indirect</td>
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<td>Lithonia Lighting</td>
<td>BLT Series</td>
<td>LED Recessed Troffer</td>
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<td>Lithonia Lighting</td>
<td>FSL Series</td>
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<td>Lithonia Lighting</td>
<td>RT Series</td>
<td>LED Recessed Volumetric</td>
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<td>Lithonia Lighting</td>
<td>T Series</td>
<td>LED Recessed Troffer</td>
</tr>
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<td>VT Series</td>
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<td>Lithonia Lighting</td>
<td>GT Series</td>
<td>General Recessed Troffer</td>
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<td>Lithonia Lighting</td>
<td>SBS Series</td>
<td>LED Shadow Box Square</td>
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<tr>
<td>Lithonia Lighting</td>
<td>WL Series</td>
<td>LED Wall Bracket Surface Mount</td>
</tr>
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<td>RTLX</td>
<td>LED Surface Volumetric</td>
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<td>ST LED</td>
<td>LED Surface Volumetric</td>
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<td>IBL / IBH</td>
<td>LED Highbay</td>
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<td>LED Highbay - Proteon</td>
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Note: New nLight enabled fixtures are added regularly. Please reference fixture spec sheets for nLight enabled options.
### APPENDIX B: Requirements Overview

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<th>Code Summary*</th>
<th>Recommendations for Compliance</th>
<th>nLight Solution Details</th>
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<tr>
<td>Local/Remote Switch</td>
<td>C405.2.1.1</td>
<td>Areas shall incorporate a manual or remote control to allow occupants to turn fixtures off.</td>
<td>Include manual control device(s) in all room control system designs.</td>
<td>nLight WallPod devices provide a user with local control of lighting within an nLight controlled space (i.e., nLight zone). WallPods are available in multiple styles – each with varying features and user experience.</td>
</tr>
<tr>
<td>Programmable Timeclock</td>
<td>C405.2.2.1</td>
<td>Each area of the building not provided with occupant sensor controls shall be provided with time switch controls. These areas must also be provided with a manual override switch.</td>
<td>Utilizing controls capable of being networked across an entire building enables simple compliance via a single central programmable time clock.</td>
<td>Individual nLight Control Zones (i.e., rooms) can be easily networked together across an entire building simply by connecting them into a “backbone” made up of one or more nLight Bridge devices and an nLight Gateway. The Gateway provides programmable time clock functionality for an nLight network as well as interfaces to the SensorView Suite of web-based software applications (via an Ethernet LAN / WAN connection).</td>
</tr>
<tr>
<td>Shut-Off Control</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Full Auto-Off via Occupancy Sensor</td>
<td>C405.2.2.2</td>
<td>Fixtures must automatically turn off within 30 minutes of all occupants leaving the space.</td>
<td>Always include occupancy sensors in all control system designs regardless of lighting type.</td>
<td>nLight occupancy sensors utilize 100% digital passive infrared (PIR) detection, come in several mounting styles, and offer multiple coverage pattern options. Additionally, nLight sensors are available with patented Microphonics® dual technology detection for rooms with obstructions. Configuring for full off vs. partial off control is done with system programming.</td>
</tr>
<tr>
<td>Manual-On, Partial-On, Full Automatic On</td>
<td>C405.2.2.2</td>
<td>Automatically controlled spaces must be controlled to either turn the lighting on to not more than 50%, or in certain spaces, to full on.</td>
<td>Always include occupancy sensors in all control system designs. Reducing the level of dimmable fixtures to 50% is easiest method of compliance, however turning off 50% of lighting via circuit switching is also an option.</td>
<td>360° Occupancy Sensor 120° WideView Corner Sensor</td>
</tr>
</tbody>
</table>

*Note: This summary is for general information purposes only and is provided without any warranty as to accuracy, completeness, or otherwise. The user should read the applicable code sections for more complete and detailed descriptions of code requirements and exceptions and should consult with a professional engineering or other competent advisor before making any decision or taking any action based on this summary.
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<td>Light Reduction Controls</td>
<td>C405.2.1.2</td>
<td>Spaces shall have a manual control that allows the occupant to reduce the connected lighting load uniformly by at least 50%.</td>
<td>Continuously dimmable LED (or fluorescent) fixtures and manual dimming controls are the easiest method of compliance.</td>
<td>nLight provides multiple options for controlling continuous dimming fixtures. This allows spaces with several lighting types and technologies to be controlled together and with a common user experience.</td>
</tr>
<tr>
<td>Daylight-Responsive Controls</td>
<td>C405.2.2.3.1/2/3</td>
<td>Daylight-responsive controls shall be provided within each space with sidelite and toplight daylight zones.</td>
<td>Automatic daylight harvesting photocells that continuously adjust the level of dimming fixtures according to daylight levels provide the most effective and least distracting control.</td>
<td>nLight offers standalone daylight harvesting sensors as well as occupancy sensors with integrated daylight harvesting. Sensors are available in four different housings and provide continuous dimming control of any/all networked nLight enabled fixtures or dimming relay packs, each capable of being its own daylight zone.</td>
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Additional Resources:

**Acuity Controls Typical Layout Drawings**
http://www.acuitybrands.com/typicals

http://codes.iccsafe.org/Florida.html

Use the Following Sections of the Florida Building Code 5th Edition (2014) as Reference:

- Section C405.2.2.2 – Full Auto-Off via Occupancy Sensor
- Section C405.2.2.2 – Manual-On or Partial-On
- Section C405.2.2.2 – Full Automatic On
- Section C405.2.1.1 – Local Switch
- Section C405.2.2.1 – Programmable Timeclock
- Section C405.2.1.2 – Manual Lighting Reduction
- Section C405.2.2.3.2 – Automatic Daylighting Controls

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