

**INTERNATIONAL ENERGY CONSERVATION CODE - 2015**

|                          |                             | Atrium      | Classroom, Lecture Hall, Training Room | Conference, Break Room | Corridor <sup>2</sup> | Guestroom <sup>3</sup> | Lobby | Open Office (>300 sq. ft.) | Parking Garage <sup>4</sup> | Private Office (<300 sq. ft.) | Restaurant/ Cafeteria, Retail | Restroom | Stairwell <sup>2</sup> | Storage Room   | Warehouse and Library Stacks <sup>5</sup> | Façade/ Landscape | Other Exterior <sup>6</sup> |   |
|--------------------------|-----------------------------|-------------|--|------------------------|-----------------------|------------------------|-------|----------------------------|-----------------------------|-------------------------------|-------------------------------|----------|------------------------|----------------|---|-------------------|-----------------------------|---|
| Manual Control           | Switch                      |             | ●                                      | ●                      |                       | ●                      |       |                            |                             | ●                             |                               | ●        |                        | ●              |   |                   |                             |   |
|                          | Dimmer or scene control     | ●           |  |                        | ●                     |                        | ●     | ●                          |                             |                               | ●                             |          | ●                      |                | ●   |                   |                             |   |
| Automatic ON/OFF Control | Timeclock                   | ●           |  |                        |                       |                        |       |                            | ●                           |                               | ●                             |          |                        |                | ●   | ●                 | ●                           |   |
|                          | Occupancy sensor            |             | ●                                      | ●                      | ●                     | ●                      | ●     | ● <sup>7</sup>             | ●                           | ●                             |                               | ●        | ●                      | ●              | ●   |                   |                             |   |
|                          | Settings                    | Full ON     |  |                        |                       | ●                      |       | ●                          |                             | ●                             |                               |          | ●                      | ●              | ●   | ●                 | ●                           | ● |
|                          |                             | Partial ON  | ●                                      |                        |                       |                        |       | ●                          |                             |                               | ●                             |          |                        |                |   |                   |                             |   |
|                          |                             | Manual ON   |  | ●                      | ●                     |                        | ●     |                            |                             |                               | ●                             |          |                        |                | ●   |                   |                             |   |
|                          |                             | Full OFF    | ●                                      | ●                      | ●                     |                        | ●     | ●                          | ●                           | ●                             | ●                             | ●        | ●                      | ●              | ●   | ●                 | ●                           | ● |
|                          |                             | Partial OFF |  |                        |                       | ● <sup>7</sup>         |       |                            | ●                           |                               |                               |          |                        | ● <sup>7</sup> |   | ●                 |                             | ● |
| Other                    | Daylight responsive control | ●           | ● <sup>8</sup>                         | ●                      | ●                     |                        | ●     | ● <sup>8</sup>             |                             | ● <sup>8</sup>                | ● <sup>9</sup>                | ●        | ●                      | ●              | ●   |                   |                             |   |
|                          | Receptacle control          |             |  |                        |                       |                        |       |                            |                             |                               |                               |          |                        |                |   |                   |                             |   |
|                          | Demand response             |             |  |                        |                       |                        |       |                            |                             |                               |                               |          |                        |                |   |                   |                             |   |

- 1 All retrofits altering more than 50% of the luminaires in a space must comply with all new construction requirements.
- 2 To comply with some life safety code requirements for egress illumination, automatic full OFF is not suggested. For non-egress areas, the occupancy sensor should turn the lights to full OFF and a switching control may be used.
- 3 Manual shutoff is required for all permanently installed luminaires and switched receptacles.
- 4 Timeclock ensures the lights are on when typically occupied. Occupancy sensor controls lights when typically unoccupied.
- 5 When typically occupied, the occupancy sensor provides partial OFF functionality. When typically unoccupied, the sensor provides full OFF functionality.
- 6 Astronomical timeclock shall ensure all lights are off during daylight hours. Lights should be scheduled to Partial OFF during night hours. See section C405.2.5 for scheduling times.
- 7 Not a code requirement. Douglas recommends this solution for spaces designated as a path of egress.
- 8 These spaces require continuous daylight dimming to OFF.
- 9 Not required for sidelight daylight zones in ground-level occupancies.