

Scope:	Interior building spaces, exterior building features, exterior building grounds. Interior space lighting alterations where 50% 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

<p>Local Control Device 9.4.1.1(a) One or more manual control device in space:</p> <ul style="list-style-type: none"> • Readily accessible • Can see lighting controlled from local device (May be an on/off switch or a dimmer) 	<p style="text-align: center;">Space ≤ 10,000ft²?</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>YES</td> <td>NO</td> </tr> <tr> <td>Control area must be ≤ 2,500ft²</td> <td>Control area must be ≤ 10,000ft²</td> </tr> </table>	YES	NO	Control area must be ≤ 2,500ft ²	Control area must be ≤ 10,000ft ²	<p>Key Exceptions</p> <ul style="list-style-type: none"> • Remote control device permitted for safety or security, provided it has a status pilot light and is labeled to identify lights controlled
YES	NO					
Control area must be ≤ 2,500ft ²	Control area must be ≤ 10,000ft ²					
<p>Manual or Partial Auto On 9.4.1.1(b) and 9.4.1.1(c)</p> <ul style="list-style-type: none"> • Lighting shall either be manual on or auto on to no more than 50% of the general lighting 	<p>Lighting Full Auto On Only Permitted for</p> <ul style="list-style-type: none"> • Corridors • Lobbies • Storage rooms < 50ft² • Stairwells • Healthcare facility • Restrooms • Elect/mech rooms • Where manual on would endanger safety or security 	<p>Key Exceptions</p> <ul style="list-style-type: none"> • Where full auto on is permitted, manual on or partial auto on is not required 				
<p>Bi-level Control 9.4.1.1(d)</p> <ul style="list-style-type: none"> • Besides on and off, lighting is either continuously dimmed or controlled with at least one step between 30% and 70% of full lighting power 	<p style="text-align: center;">Choose between bi-level switching or continuous dimming control</p>	<p>Key Exceptions</p> <ul style="list-style-type: none"> • Atriums < 20ft ht • Corridors • Storerooms • Elect/mech rooms • Loading docks • Restrooms • Lobbies 				
<p>Automatic Daylight Responsive Control 9.4.1.1(e) and 9.4.1.1(f)</p> <ul style="list-style-type: none"> • Either continuous dimming or at least one step between 50-70% and a second step between 20-40% or lowest dimmed level • Turns off all controlled lighting <p>Sidelighting – Single primary zone adjacent to windows Toplighting – Single primary zone under skylights & monitors</p>	<p style="text-align: center;">Primary sidelight area lighting ≥ 150W or Primary toplight area lighting ≥ 105W?</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>YES</td> <td>NO</td> </tr> <tr> <td>Daylight Control Required Choose dimming or step control</td> <td>Daylight Control Not Required</td> </tr> </table>	YES	NO	Daylight Control Required Choose dimming or step control	Daylight Control Not Required	<p>Key Exceptions Sidelight</p> <ul style="list-style-type: none"> • Adjacent structure obstruction • Glazing < 20ft² • Retail spaces • Where lighting power is ≤ 80% allowed <p>Key Exceptions Toplight</p> <ul style="list-style-type: none"> • Obstruction > 1,500 hrs/year • Skylight visual transmittance < 0.4 • Climate zone 8 and lighting < 200W • Where lighting power is ≤ 80% allowed
YES	NO					
Daylight Control Required Choose dimming or step control	Daylight Control Not Required					
<p>Automatic Partial Off 9.4.1.1(g)</p> <ul style="list-style-type: none"> • Automatically reduce general lighting ≤ 50% within 20 minutes of occupants leaving. Automatic Full Off complies (Occupancy sensor control) 	<p>Required for the Following Space Types</p> <ul style="list-style-type: none"> • Classroom labs • Library stacks • Lobbies • Corridors (not manufacturing) • Stairwells • Warehouses • Storage rooms > 1,000ft² 	<p>Key Exceptions</p> <p>All three conditions must be met:</p> <ol style="list-style-type: none"> 1. LPD no more than 0.8W/ft² 2. Spaces lit by HID lamps 3. Light power reduced by ≥ 30% within 20 minutes after leaving 				
<p>Automatic Full Off 9.4.1.1(h)</p> <ul style="list-style-type: none"> • All lighting must auto off within 20 minutes of occupants leaving. Control device shall control an area no larger than 5,000ft². (Occupancy sensor control) • In restrooms auto off within 30 minutes 	<p>Required for the Following Space Types</p> <ul style="list-style-type: none"> • Lounge/break rooms • Fitting/dressing rooms • Copy/print rooms • Multipurpose rooms • Storage rooms ≥ 50 to ≤ 1,000ft² • Locker rooms • Restrooms • Conference/meeting rooms • Classroom/training rooms • Lecture Hall • Offices ≤ 250ft² 	<p>Key Exceptions</p> <ul style="list-style-type: none"> • Shop and classroom laboratories • Where auto off would endanger safety or security • Lighting for 24/7 operation 				
<p>Scheduled Shut Off 9.4.1.1(i)</p> <p>Lighting not already shut off by Automatic Full Off control must be shut off when scheduled unoccupied:</p> <ul style="list-style-type: none"> • Time schedule or other control device signal • Control area ≤ 25,000ft² but not more than one floor • Override ≤ 2 hours and area ≤ 5,000ft² 	<p style="text-align: center;">Required for spaces not already controlled by Automatic Full Off (9.4.1.1(h))</p>	<p>Key Exceptions</p> <ul style="list-style-type: none"> • Lighting for patient care • Where auto off would endanger safety or security • Lighting for 24/7 operation 				
<p>Special Application Lighting 9.4.1.3</p> <ul style="list-style-type: none"> • Lighting must be separately controlled from the space's general lighting 	<p>Required for the Following Lighting</p> <ul style="list-style-type: none"> • Display or accent • Lighting for education • Supplemental task • Lighting for sale • Under shelf • Food warming • Plant growth • Display cases • Under cabinet 	<p>Key Exceptions</p> <ul style="list-style-type: none"> • None 				
<p>Automatic Receptacle Control 8.4.2</p> <p>Auto receptacle shut off by either:</p> <ul style="list-style-type: none"> • Time schedule, ≤ 2 hour override, control area ≤ 5,000ft² • Occupancy sensor with 20 minute off delay • Automated signal that shall auto off receptacles within 20 minutes of occupants leaving 	<p>Requires</p> <ul style="list-style-type: none"> • One duplex receptacle within the desk area in private offices and individual workstations • 50% of receptacles in conference rooms, print/copy rooms, breakrooms, classrooms • 25% of circuits feeding modular furniture 	<p>Key Exceptions</p> <ul style="list-style-type: none"> • Equipment operating 24/7 • Where auto control would endanger safety or security 				
<p>Parking Garage Lighting Control 9.4.1.2</p> <ul style="list-style-type: none"> • Automatic lighting shut off per 9.4.1.1(i) • Automatically reduce lighting ≥ 30% when no activity detected within 20 minutes and with the area controlled ≤ 3,600ft² • Covered vehicle entrances and exits have separate controls to reduce lighting ≥ 50% from sunset to sunrise • Within 20ft of perimeter wall openings, automatically reduce lighting power in response to daylight 		<p>Key Exceptions</p> <ul style="list-style-type: none"> • None 				
<p>Guestroom Control 9.4.1.3(b)</p> <ul style="list-style-type: none"> • Auto off all lighting and switched receptacles within 20 minutes of occupants leaving <p>Guestroom Bathroom Control</p> <ul style="list-style-type: none"> • Separate control from guestroom to auto off bathroom lighting within 30 minutes of occupants leaving 		<p>Key Exceptions</p> <ul style="list-style-type: none"> • Lighting and switched receptacles controlled by a captive key system • Bathroom Exceptions: Nightlights up to 5W per bathroom 				
<p>Exterior Lighting Controls 9.4.1.4</p> <ul style="list-style-type: none"> • Auto off when daylight is available • Façade, landscape auto off no later than midnight or closing to 6AM or opening • Reduce other lighting and signage ≥ 30% no later than midnight or within one hour after operations end to 6AM or opening, or when no activity detected for > 15 minutes • Parking lights > 50W with mounting heights ≤ 24ft must reduce power ≥ 40% when no activity detected for > 15 minutes. Control zone ≤ 1500W 		<p>Key Exceptions</p> <ul style="list-style-type: none"> • Covered vehicle entrances or for safety, security, or eye adaptation 				
<p>Functional Testing 9.4.3</p> <p>Lighting controls tested for proper calibration, adjustment, programming, and working condition</p> <ul style="list-style-type: none"> • Certify occupancy sensor parameters (see 9.4.3(a)) • Confirm and verify automatic time switch parameters (see 9.4.3(b)) • Verify daylight controls meet criteria (see 9.4.3(c)) <p>Testing individual shall not be involved with project design or construction and must provide certifying document that lighting controls meet the performance criteria</p>		<p>Key Exceptions</p> <ul style="list-style-type: none"> • None 				