



# Quick Reference Guide for ASHRAE 90.1 - 2013 Commercial Lighting & Electrical Control Requirements



The chart below is an overview of the ASHRAE 90.1 - 2013 Code Requirements for Common Building Spaces. Please refer to the code for specific requirements or contact Smart Lighting Solutions for assistance.

Control Requirement*	Code Provision	Code Summary*	Space Type								
			Private Office	Open Office	Conference, Meeting, Multipurpose Room	Classroom, Lecture Hall, Training Room	Lobby	Corridor	Restroom	Stairwell	
On-Off Control	Local (i.e., Switch) Control	9.4.1.1[a] There shall be one or more readily accessible manual lighting controls in the space that controls all lighting in the space. Note: Remote locations permitted for reasons of safety or security.	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Manual ON	9.4.1.1[b] None of the lighting in the space shall be automatically turned on.	✓	✓	✓	✓					
	Partial Automatic ON	9.4.1.1[c] The general lighting shall be allowed to be turned on automatically to 50% of the lighting power.	✓	✓	✓	✓					
	Full Automatic ON	9.4.1.1 Automatically controlled spaces are allowed to turn on to full.					✓	✓	✓	✓	
	Automatic Partial OFF Via Occupancy Sensor	9.4.1.1[g] The general lighting power shall be automatically reduced by at least 50% within 20 minutes of all occupants leaving the space. Note: Full Off also complies.					✓	✓			✓
	Automatic Full OFF Via Occupancy Sensor	9.4.1.1[h] All lighting shall be automatically shut off within 20 minutes of all occupants leaving the space.	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Scheduled Shutoff (i.e. Timeclock)	9.4.1.1[i] All lighting shall be automatically shut off during periods when the space is scheduled to be unoccupied using a time-of-day operated control. Note: A signal from another automatic control device or alarm/security system complies.		✓			✓	✓	✓	✓	✓
Light Level Control	Bi-Level Lighting Control	9.4.1.1[d] Controlled lighting shall have at least one control step between 30% and 70%, or continuous dimming, in addition to full on and full off.	✓	✓	✓	✓					✓
	Automatic Daylight Responsive Controls for Sidelighting/Toplighting	9.4.1.1[e] 9.4.1.1[f] If the general lighting load is 150W or greater in the primary sidelighted or toplighted areas, or 300W or greater in the primary & secondary sidelighted areas, the general lighting in these areas shall be controlled by multi-step or continuous dimming photocontrols.	✓	✓	✓	✓	✓	✓	✓	✓	✓
Additional Controls	Automatic Receptacle (i.e. Plug Load Control)	8.4.2 50% of all receptacles, and 25% of branch circuit feeders installed for modular furniture, shall be automatically turned off by an occupant sensor within 20 minutes of all occupants leaving the space. Note: A time-of-day schedule or a signal from another automatic control device or alarm/security system complies.	✓		✓	✓					

\*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.