



nLight® Quick Reference Guide for IECC 2024

Commercial Lighting and Electrical Control Requirements

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 IECC code.*

	Control Requirement*	Code Provision	Code Summary*	Indoor Space Type										Outdoor Space Type				
				Enclosed Office, Copy / Print, Open Office <300ft²	Conference, Meeting, Multipurpose Room	Classroom, Lecture Hall, Training Room	Gymnasium	Non-Exit Stairwell	Open Office >300ft²	Lobby	Corridor	Restroom	Warehouse	Data Centers	Parking Garage	Site, Parking Area	Facade and Landscape	
On-Off Control	Manual-On or AutoOn ≤ 50%	C405.2.1.1.2	Automatically controlled spaces must be controlled to automatically turn the lighting on to not more than 50% power.	✓	✓	✓	✓									✓		
	Full Automatic-On	C405.2.1.1, exception	Automatically controlled spaces are allowed to turn on to full.					✓	✓	✓		✓	✓					
	Manual Control (Local Switch)	C405.2.1.1.3	Areas with occupant sensors shall incorporate a manual control to allow occupants to turn luminaires off.	✓	✓	✓	✓						✓	✓				
	Auto Reduce Light Level via Occupancy	C405.2.1.2.2 C405.2.1.3.4 C405.2.1.4 C405.2.7.3.2 C405.2.8.1	Occupancy sensors shall automatically reduce lighting.						✓		✓		✓		✓	✓		
	Time-Switch Controls (via System Controller)	C405.2.2.1 C405.2.7.2 C405.2.7.3.1.1 C405.2.7.3.1.2	Each area not provided with occupant sensor controls shall be provided with time switch controls and programmed such that the Lighting is OFF at least 12hrs in any 24hr period.						✓	✓	✓	✓		✓		✓	✓	✓
								(or)	(or)	(or)	(or)		(or)	(or)				
Full Auto-Off via Occupancy Sensor	C405.2.1.1.1 C405.2.7.3.1.3	Luminaires must automatically turn off within 20 minutes of all occupants leaving the space.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
Dimming Controls	C405.2.3	Continuous dimming from full output down to 10% or less, plus off, with a manual control in the space.	✓	✓	✓	✓	✓	✓	✓	✓						✓		
Daylight Control	Automatic Receptacle Control	C405.12	50% of all receptacles, and 25% of branch circuit feeders installed for modular furniture, shall be automatically turned off by occupancy sensor, time schedule, or signal from another automatic system capable of shutting off within 20 minutes.	✓	✓	✓				✓								
Daylight-Responsive Controls	C405.2.4.1 C405.2.4.2 C405.2.7.1 C405.2.8.2 C405.2.8.3	Daylight-responsive controls shall be provided Spaces < 250 ft² do not require daylight-responsive controls.	✓	✓	✓	✓				✓	✓		✓		✓	✓	✓	

Notes:
* 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 engineer or other competent advisor before making any decision or taking any action based on this summary.

