

Meeting ASHRAE 90.1-2010 Lighting Control Standards with Eaton's Pow-R-Command intelligent panelboard

Combining a full range of lighting control and energy management capabilities in a compact package, the Pow-R-Command™ intelligent panelboard helps maximize energy savings and meet new energy codes while reducing operating costs.

9.4.1 Lighting control	Any automatic control device shall either be manual on or controlled to automatically turn lighting on to not more than 50% power.
9.4.1.1 Automatic lighting shutoff	Indoor lighting shall be controlled with an occupant sensing control, time-switch control or signal from another building system.
9.4.1.2 Space control	Each space enclosed by ceiling-height partitions shall have at least one control device to independently control the general lighting within the space. The controlled lighting shall have at least one control step between 30% and 70%.
9.4.1.2c Space control	Each control device shall be activated either manually by occupant or automatically by sensing an occupant. Occupant shall be able to override any time-of-day scheduled shutoff control device for no more than 2 hours.
9.4.1.3 Parking garage lighting control	Lighting for parking garages shall comply with "Automatic lighting shutoff" section 9.4.1.1. Daylight transition zones automatically turned off during daylight hours and perimeter lighting automatically reduced in response to daylight.
9.4.1.4 Automatic daylighting controls for primary sidelighted areas	Primary sidelighted area shall be separately controlled by a multi-level photocontrol device to reduce lighting in response to available daylight with at least one control step between 50% and 70% and another control step that is no greater than 35% (including off).
9.4.1.5 Automatic daylighting controls for toplighting	Daylit areas under skylights and rooftop monitors shall be separately controlled by at least one multi-level photocontrol device.
9.4.1.6 Additional control	Display/accent and case lighting shall have a separate control device. Task lighting (supplemental), including permanently installed under shelf or under cabinet lighting, shall have a control device integral to the luminaires or be controlled by a readily accessible wall-mounted control device.
9.4.1.7a Exterior lighting control	Exterior lighting shall be controlled by a device that automatically turns off the lighting when sufficient daylight is available. Advertising signage shall be controlled by a device that reduces the connected lighting power by at least 30% within 1 hour of the end of business operations.
9.4.1.7b Exterior lighting control	All building façade and landscape lighting shall be automatically shut off at specified times.
8.4.2 Automatic receptacle control	At least 50% of all receptacles in private offices, open offices and computer classrooms, including those in modular partitions, shall be controlled by an automatic control device.



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