



Oregon Energy Efficiency Specialty Code Interior Lighting Compliance Certificate



Developed with
COMcheck Software
Version 3.8.0

Department of Consumer and Business Services Building Codes Division

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SECTION 1: PROJECT INFORMATION

Project type: New construction Addition Alteration (check only one)

Project title:

Construction site

Address:		City:		State:	OR	ZIP:	
Permit number:				Permit date:			

Owner/agent

First and last name:							
Company:							
Address:		City:		State:		ZIP:	
Phone number:				E-mail:			

Designer/contractor

First and last name:							
Company:							
Address:		City:		State:		ZIP:	
Phone number:				E-mail:			

SECTION 2: REQUIREMENTS CHECKLIST				
A	B	C	D	E
Building area method	Area sq. ft.	Allowed watts/ft²	Allowed watts (B x C)	Proposed watts
Automotive facility				
Convention center				
Courthouse				
Dining: bar lounge/leisure				
Dining: cafeteria/fast food				
Dining: family				
Dormitory				
Exercise center				
Fire station				
Gymnasium				
Health care clinic				
Hospital				
Hotel				
Library				
Manufacturing facility				
Motel				
Motion picture theater				
Multi-family				
Museum				
Office				
Parking garage				
Penitentiary				
Performing arts theater				
Police				
Post office				
Religious building				
Retail				
School/university				
Sports arena				
Town hall				
Transportation				
Warehouse				
Workshop				
Total watts				

A	B	C	D		
Area category (space-by-space) method	Area sq. ft.	Ceiling height (ft)	Allowed watts/ft ²	Allowed watts (B x D)	Proposed watts
Automotive					
Service repair					
Bank					
Banking activity area					
Common space types					
Active storage					
Atrium - first three floors					
Atrium - each additional floor					
Audience/seating area					
Classroom/lecture/training					
Conference/meeting/multipurpose					
Corridor/transition					
Dining area - bar lounge/leisure					
Dining area - family restaurant					
Dressing/locker room					
Electrical/mechanical					
Food preparation					
Inactive storage					
Laboratory					
Lobby					
Lounge/recreation					
Office - enclosed					
Office - open plan					
Restrooms					
Stairs - active					
Workshop					
Convention center					
Exhibit space					
Audience/seating area					
Courthouse/police station					
Courtroom					
Judges chambers					
Fire station					
Engine room					
Sleeping quarters					
Gymnasium/exercise center					
Playing area					
Exercise area					
Gymnasium audience/seating area					
Exercise center audience/seating area					

A	B	C	D		
Area category (space-by-space) method	Area sq. ft.	Ceiling height (ft)	Allowed watts/ft ²	Allowed watts (B x D)	Proposed watts
Hospital					
Active storage					
Corridors/transition					
Emergency					
Exam treatment					
Laundry - washing					
Lounge/recreation					
Medical supply					
Nurse station					
Nursery					
Operating room					
Patient room					
Pharmacy					
Physical therapy					
Radiology					
Recovery					
Hotel/motel					
Hotel dining area					
Hotel lobby					
Motel dining area					
Library					
Card file and cataloging					
Reading area					
Stacks					
Manufacturing					
Corridors/transition					
Workshop used specifically for manufacturing					
Motion picture theater					
Audience/seating area					
Lobby					
Museum					
Active storage					
General exhibition					
Inactive storage					
Restoration					
Parking garage					
Garage area					
Performing arts theater					
Audience/seating area					
Lobby					

A	B	C	D		
Area category (space-by-space) method	Area sq. ft.	Ceiling height (ft)	Allowed watts/ft ²	Allowed watts (B x D)	Proposed watts
Post office					
Sorting area					
Religious buildings					
Audience/seating area					
Fellowship hall					
Worship pulpit, choir					
Retail					
Sales area					
Mall concourse					
Fitting room					
Additional lighting power for retail displays					
Furniture, clothing, cosmetics, or artwork					
Jewelry, crystal, or china					
Sales floor area other than those above					
Sports arena					
Audience/seating area					
Court sports area					
Indoor playing field area					
Ring sports area					
Transportation					
Air/train/bus - baggage area					
Airport - concourse					
Seating area					
Terminal - ticket counter					
Warehouse					
Fine material storage					
Medium/bulky material storage					
Total watts					

Lighting wattage:

- 1. **[505.1+]** Total proposed watts must be less than or equal to total allowed watts.

In the following requirements, the relevant code section reference is shown in []. '+' denotes that more details exist in the specified code.

Mandatory requirements:

- 2. **[505.4] Exit signs.** Internally illuminated exit signs shall not exceed five watts per side.

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 3. **[505.2.2.3+] Daylight zone control.** All daylight zones are provided with individual controls that control the lights independent of general area lighting in the non-daylight zone. In all individual daylight zones larger than 350 square feet., automatic daylight controls are provided. Automatic daylight sensing controls reduce the light output of the controlled luminaires at least 50 percent, and provide an automatic OFF control, while maintaining a uniform level of illumination. Contiguous daylight zones adjacent to vertical fenestration may be controlled by a single controlling device provided that they do not include zones facing more than two adjacent cardinal orientations (i.e., north, east, south, west). Daylight zones under skylights shall be controlled separately from daylight zones adjacent to vertical fenestration.

Exceptions:

- Retail spaces adjacent to vertical glazing (retail spaces under overhead glazing are not exempt)*
- Display, exhibition, and specialty lighting*
- HID lamps 150 watts or less*
- Spaces required to have occupancy sensors*

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 4. **[505.2.1+] Interior lighting controls.** At least one local shutoff lighting control has been provided for every 2,000 square feet of lit floor area and each area enclosed by walls or floor-to-ceiling partitions. The required controls are located within the area served by the controls or are a remote switch that identifies the lights served and indicates their status.

Exceptions:

- Lighting systems serving areas designated as security or emergency areas that must be continuously lighted*
- Lighting in public areas such as concourses, stairways, or corridors that are elements of the means of egress with switches that are accessible only to authorized personnel*
- Lighting for warehouses, parking garages, or spaces using less than 0.5 watts per square foot*
- Lighting for contiguous, single-tenant retail spaces*

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 5. **[505.2.3+] Sleeping unit controls.** Master switch at entry to hotel/motel guest room.

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 6. **[505.2.1.1] Egress lighting.** Egress illumination is controlled by a combination of listed emergency relay and occupancy sensors to shut off during periods that the building space served by the means of egress is unoccupied.

Exceptions:

- Building exits as defined in Section 1002 of the Oregon Structural Specialty Code*

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 7. **[505.2.2+] Additional controls.** Each area that is required to have a manual control shall have additional controls that meet the requirements of Sections 505.2.2.1 and 505.2.2.2

- 8. **[505.2.2.1+] Light reduction controls.** Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either:

1. Controlling (dimming or multi-level switching) all luminaires; or
2. Dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps; or
3. Switching the middle lamp luminaires independently of other lamps; or
4. Switching each luminaire or each lamp.

Exceptions:

- Only one luminaire in space*
- An occupant-sensing device controls the area*
- The area is a corridor, storeroom, restroom, public lobby, or sleeping unit*
- Electrical and mechanical room*
- Areas that use less than 0.6 watts per square foot*

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 9. **[505.2.2.2]** Buildings larger than 2,000 square feet are equipped with an automatic control device to shut off lighting in those areas. This automatic control device shall function on either:

1. A scheduled basis, using time-of-day, with an independent program schedule that controls the interior lighting in areas that do not exceed 10,000 square feet and are not more than one floor; or
2. An occupant sensor that shall turn lighting off within 30 minutes of an occupant leaving a space; or
3. A signal from another control or alarm system that indicates the area is unoccupied.

Exceptions:

- Sleeping units, patient care areas, and space where automatic shutoff would endanger safety or security*

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 10. **[505.2.2]** Occupancy sensors in rooms that include daylight zones are required to have manual on activation.

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 11. **[505.2.2]** An occupant sensor control device is installed that automatically turns lighting off within 30 minutes of all occupants leaving a space.

Exceptions:

- Classrooms and lecture halls*
- Conference, meeting and training rooms*
- Employee lunch and break rooms.*
- Rooms used for document copying and printing*
- Office spaces up to 300 square feet*
- Restrooms*
- Dressing, fitting, and locker rooms*

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 12. **[505.2.2] Additional controls.** An occupant sensor control device that automatically turns lighting off within 30 minutes of all occupants leaving a space or a locally activated switch that automatically turns lighting off within 30 minutes of being activated is installed in all storage and supply rooms up to 1,000 square feet.

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 13. **[505.2.2.2.1] Occupant override.** Automatic lighting shutoff operating on a time-of-day scheduled basis incorporates an override switching device that:
 1. Is readily accessible,
 2. Is located so that a person using the device can see the lights or the area controlled by that switch, or so that the area being lit is annunciated,
 3. Is manually operated,
 4. Allows the lighting to remain on for no more than two hours when an override is initiated, and
 5. Controls an area not exceeding 2,000 square feet.

Exceptions:

- In malls and arcades, auditoriums, single-tenant retail spaces, industrial facilities, and arenas, where captive-key override is utilized, override time is permitted to exceed two hours*
- In malls and arcades, auditoriums, single-tenant retail spaces, industrial facilities, and arenas, the area controlled shall not exceed 20,000 square feet*

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 14. **[505.2.2.2.2] Holiday scheduling.** Automatic lighting shutoff operating on a time-of-day scheduled basis has an automatic holiday scheduling feature that turns off all loads for at least 24 hours, then resumes the normally scheduled operation.

Exceptions:

- Retail stores and associated malls, restaurants, grocery stores, places of religious worship, theaters, and exterior lighting zones*
- Single-zone electronic time control devices and self-contained wall box preset lighting controls*

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 15. **[505.2.4+] Exterior lighting controls.** Lighting not designated for dusk-to-dawn operation shall be controlled by either a combination of a photosensor and a time switch, or an astronomical time switch. Lighting designated for dusk-to-dawn operation shall be controlled by an astronomical time switch or photosensor.

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 16. **[505.3] Tandem wiring.** The following luminaires located with the same area shall be tandem wired:
 1. Fluorescent luminaires equipped with one, three, or odd-numbered lamp configurations that are recess-mounted within 10 feet center-to-center of each other.
 2. Fluorescent luminaires equipped with one, three, or any odd-numbered lamp configuration, that are pendant- or surface-mounted within one foot edge-to-edge of each other.

Exceptions:

- Where electronic high-frequency ballasts are used*
- Luminaires on emergency circuits*
- Luminaires with no available pair in the same area*

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 17. **[505.5.1+] Medical task lighting or art/history display lighting** claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

- 18. **[505.7+] Each dwelling unit in a building is metered separately.**

Location in plans/specs where compliance can be identified (enter NA if not applicable): _____

Interior Lighting PASSES: Design 55 percent better than code.

SECTION 5: COMPLIANCE STATEMENT

Compliance statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the Oregon Energy Efficiency Specialty code requirements in COMcheck Version 3.8.0 and to comply with the mandatory requirements in the requirements checklist.

Name – Title

Signature

Date