



Simplified Building Method—Lighting

Oregon Energy Efficiency Specialty Code Compliance Checklist

This checklist may be used to demonstrate compliance with the Simplified Building Method Compliance Path for Interior and Exterior Lighting, Section 9.3 of the Oregon Energy Efficiency Specialty Code (OEESC)/ASHRAE Standard 90.1. **COMcheck is not required.**

Base requirements:

1. Allowed only for new buildings, alterations and additions where at least 80% of the floor area supports either office buildings, retail buildings, or school buildings.
2. The *gross floor area* of the building shall be less than 25,000 ft².
3. COMcheck certificate, if used, may show lighting results as “FAILS.”
4. Where applicable, the energy credits required in Chapter 11 and the OEESC shall be achieved. Where COMcheck is not being used, energy credits shall be identified using the [Energy Credit Supplementary Checklist](#).

CONTACT & BUILDING INFORMATION

Contact name:	Phone number:	
Email:		
Site address:	Map and tax lot:	
City:	State: Oregon	ZIP:

COMPLIANCE

The following table identifies the lighting power allowance (LPA), the correlating table in ASHRAE Standard 90.1 and the parts of this checklist to be completed based on the building type and area. Check the boxes that apply and complete the corresponding parts of this checklist.

Building type		Area: LPA	90.1 Table	Part of form to complete
<input type="checkbox"/>	Office	<input type="checkbox"/> Interior: 0.56 W/ft ²	Table 9.3.1-1	Part I and Part IIA
		<input type="checkbox"/> Garage: 0.14 W/ft ²		
		<input type="checkbox"/> Exterior: According to area type	Table 9.3.2	Part IID
<input type="checkbox"/>	Retail	<input type="checkbox"/> Interior: 0.70 W/ft ²	Table 9.3.1-2	Part I and Part IIB
		<input type="checkbox"/> Garage: 0.14 W/ft ²		
		<input type="checkbox"/> Exterior: According to area type	Table 9.3.2	Part IID
<input type="checkbox"/>	School	<input type="checkbox"/> Interior: 0.63 W/ft ²	Table 9.3.1-3	Part I and Part IIC
		<input type="checkbox"/> Garage: 0.14 W/ft ²		
		<input type="checkbox"/> Exterior: According to area type	Table 9.3.2	Part IID

Note: Uncovered floors of a garage shall use the *LPA* and control requirements in Table 9.3.2 for parking lots. Interior and exterior wattage allowances shall be calculated and complied with separately. For the exterior please complete Part IID of this checklist.

PART I—LIGHTING POWER ALLOWANCE

Interior lighting compliance results:

Enter the specified lighting power allowance information. *No exemptions or allowances are permitted.

1. Proposed Interior Lighting Power (Total) _____ Watts
 2. Building floor area: _____ ft²
 3. Lighting Power Density (Total W /Floor Area): _____ W/ ft² (Divide line 1 by line 2)
- * The Lighting Power Density must be less than the allowed lighting power for the building type as noted above.

Where an interior garage is provided, repeat the calculation: 1. _____ Watts 2. _____ ft² 3. _____ W/ft²

PART II—LIGHTING CONTROLS

Part IIA—Office Buildings: Simplified Building Method (Table 9.3.1-1)

Use the following checklist to demonstrate compliance with the lighting control requirements in each interior space type.

Interior Space Type	Controls (All lighting shall be controlled)	Location on the plans
<input type="checkbox"/> Office spaces ≤ 150 ft ² Classrooms, Conference rooms, Meeting rooms, Training rooms, Storage rooms, and Break rooms	Shall comply with one of the following: <input type="checkbox"/> All lighting is automatically controlled to turn off when individual <i>spaces</i> are either unoccupied or scheduled to be unoccupied., OR <input type="checkbox"/> Exception: Lighting loads do not exceed $0.02 \text{ W/ft}^2 \times$ gross lighted area. Shall comply with both of the following: <input type="checkbox"/> Each <i>space</i> has a <i>manual control device</i> that allows the occupant to reduce lighting power by at least 50% and to turn the lighting off, AND <input type="checkbox"/> <i>Spaces</i> are controlled by <i>manual-ON occupant sensors</i>	
<input type="checkbox"/> Office spaces > 150 ft ² , and Restrooms	Shall comply with one of the following: <input type="checkbox"/> All lighting is automatically controlled to turn off when individual <i>spaces</i> are either unoccupied or scheduled to be unoccupied., OR <input type="checkbox"/> Exception: Lighting loads do not exceed $0.02 \text{ W/ft}^2 \times$ gross lighted area. Shall comply with both of the following: <input type="checkbox"/> Each <i>space</i> has a <i>manual control device</i> that allows the occupant to reduce lighting power by at least 50% and to turn the lighting off, AND <input type="checkbox"/> <i>Spaces</i> are controlled by <i>occupancy sensors</i> .	
<input type="checkbox"/> Stairwells and corridors in office buildings	Shall comply with one of the following: <input type="checkbox"/> All lighting is automatically controlled to turn off when individual <i>spaces</i> are either unoccupied or scheduled to be unoccupied., OR <input type="checkbox"/> Exception: Lighting loads do not exceed $0.02 \text{ W/ft}^2 \times$ gross lighted area. Shall comply with the following: <input type="checkbox"/> <i>Spaces</i> are also controlled by <i>occupant sensors</i> that reduce the lighting power by at least 50% when no activity is detected for not longer than 15 minutes and be controlled to turn off when the <i>building</i> is either unoccupied or scheduled to be unoccupied.	
<input type="checkbox"/> Parking garages (See note below)	Shall comply with all of the following: <input type="checkbox"/> All lighting is controlled by <i>occupant sensors</i> . <input type="checkbox"/> Controls reduce the power by at least 50% when no activity is detected for not longer than 15 minutes. <input type="checkbox"/> No device shall <i>control</i> more than 3600 ft ² .	

Note: Uncovered floors of a garage shall use the LPA and control requirements in Table 9.3.2 for parking lots.
Interior and exterior wattage allowances shall be calculated and complied with separately, please complete Part IID of this form.

Part IIB—Retail Buildings: Simplified Building Method (Table 9.3.1-2)

Use the following checklist to demonstrate compliance with the lighting controls requirements in each interior space type.

Interior Space Type	Controls (All lighting shall be controlled)	Location on the plans
<input type="checkbox"/> Sales area	<p>Shall comply with one of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> All lighting is automatically controlled to turn off when individual <i>spaces</i> are either unoccupied or scheduled to be unoccupied, OR <input type="checkbox"/> Exception: Lighting loads do not exceed $0.02 \text{ W/ft}^2 \times \text{gross lighted area}$. <p>Shall comply with all of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> <i>Spaces</i> are automatically controlled to reduce the general lighting power by at least 75% during nonbusiness hours, <input type="checkbox"/> <i>Spaces</i> are automatically controlled to turn off all lighting other than general lighting during nonbusiness hours, and <input type="checkbox"/> <i>Spaces</i> are automatically controlled by continuous daylight dimming controls in spaces with toplighting. 	
<input type="checkbox"/> Stock rooms, Dressing/fitting rooms, Locker rooms, and Restrooms	<p>Shall comply with one of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> All lighting is automatically controlled to turn off when individual <i>spaces</i> are either unoccupied or scheduled to be unoccupied, OR <input type="checkbox"/> Exception: Lighting loads do not exceed $0.02 \text{ W/ft}^2 \times \text{gross lighted area}$. <p>Shall comply with the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> <i>Spaces</i> are also controlled by auto-ON or <i>manual-ON occupant sensors</i>, and continuous daylight dimming controls in <i>spaces</i> with toplighting. 	
<input type="checkbox"/> Office <i>spaces</i> , Conference rooms, Meeting rooms, Training rooms, Storage rooms, Break rooms, and Utility spaces	<p>Shall comply with one of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> All lighting is automatically controlled to turn off when individual <i>spaces</i> are either unoccupied or scheduled to be unoccupied, OR <input type="checkbox"/> Exception: Lighting loads do not exceed $0.02 \text{ W/ft}^2 \times \text{gross lighted area}$. <p>Shall comply with the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> <i>Spaces</i> are also controlled by <i>manual-ON occupant sensors</i>, and continuous daylight dimming controls in <i>spaces</i> with toplighting. 	
<input type="checkbox"/> Stairwells and corridors in retail buildings and parking garages	<p>Shall comply with one of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> All lighting is automatically controlled to turn off when individual <i>spaces</i> are either unoccupied or scheduled to be unoccupied, OR <input type="checkbox"/> Exception: Lighting loads do not exceed $0.02 \text{ W/ft}^2 \times \text{gross lighted area}$. <p>Shall comply with the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> <i>Spaces</i> are also controlled by <i>occupant sensors</i> that reduce the lighting power by at least 50% when no activity is detected for not longer than 15 minutes and be controlled to turn off when the <i>building</i> is either unoccupied or scheduled to be unoccupied. 	
<input type="checkbox"/> Parking garages (See note below)	<p>Shall comply with all of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> All lighting is controlled by <i>occupant sensors</i>. <input type="checkbox"/> Controls reduce power by at least 50% when no activity is detected for not longer than 15 minutes. <input type="checkbox"/> No device shall <i>control</i> more than 3600 ft². 	

Note: Uncovered floors of a garage shall use the LPA and control requirements in Table 9.3.2 for parking lots. Interior and exterior wattage allowances shall be calculated and complied with separately, please complete Part IID of this form.

PART IIC—School Buildings: Simplified Building Method (Table 9.3.1-3)

Use the following checklist to demonstrate compliance with the lighting controls requirements in each interior space type.

Interior Space Type		Controls (All lighting shall be controlled)	Location on the plans
<input type="checkbox"/>	Classrooms, Offices spaces, Conference rooms, Meeting rooms, Library, Storage rooms, and Break rooms	Shall comply with one of the following: <input type="checkbox"/> All lighting is automatically controlled to turn off when individual <i>spaces</i> are either unoccupied or scheduled to be unoccupied, OR <input type="checkbox"/> Exception: Lighting loads do not exceed $0.02 \text{ W/ft}^2 \times \text{gross lighted area}$.	
		Shall comply with the following: <input type="checkbox"/> <i>Spaces</i> are also controlled by <i>manual-ON occupant sensors</i>	
<input type="checkbox"/>	Gymnasiums and Cafeterias	Shall comply with one of the following: <input type="checkbox"/> All lighting is automatically controlled to turn off when individual <i>spaces</i> are either unoccupied or scheduled to be unoccupied, OR <input type="checkbox"/> Exception: Lighting loads do not exceed $0.02 \text{ W/ft}^2 \times \text{gross lighted area}$.	
		Shall comply with the following: <input type="checkbox"/> <i>Spaces</i> are also controlled by <i>occupancy sensors</i> .	
<input type="checkbox"/>	Restrooms	Shall comply with one of the following: <input type="checkbox"/> All lighting is automatically controlled to turn off when individual <i>spaces</i> are either unoccupied or scheduled to be unoccupied, OR <input type="checkbox"/> Exception: Lighting loads do not exceed $0.02 \text{ W/ft}^2 \times \text{gross lighted area}$.	
		Shall comply with the following: <input type="checkbox"/> <i>Spaces</i> are controlled by <i>occupancy sensors</i> .	
<input type="checkbox"/>	Stairwells and corridors in school buildings and parking garages	Shall comply with one of the following: <input type="checkbox"/> All lighting is automatically controlled to turn off when individual <i>spaces</i> are either unoccupied or scheduled to be unoccupied, OR <input type="checkbox"/> Exception: Lighting loads do not exceed $0.02 \text{ W/ft}^2 \times \text{gross lighted area}$.	
		Shall comply with the following: <input type="checkbox"/> <i>Spaces</i> are also controlled by <i>occupant sensors</i> that reduce the lighting power by at least 50% when no activity is detected for not longer than 15 minutes and be controlled to turn off when the <i>building</i> is either unoccupied or scheduled to be unoccupied.	
<input type="checkbox"/>	Parking garages (See note below)	Shall comply with all of the following: <input type="checkbox"/> All lighting is controlled by <i>occupant sensors</i> . <input type="checkbox"/> Controls reduce power by at least 50% when no activity is detected for not longer than 15 minutes. <input type="checkbox"/> No device shall <i>control</i> more than 3600 ft ² .	

Note: Uncovered floors of a garage shall use the LPA and control requirements in Table 9.3.2 for parking lots.
Interior and exterior wattage allowances shall be calculated and complied with separately, please complete Part IID of this form.

PART IID—Building exteriors: Simplified Building Method (Table 9.3.2)

Use the following checklist to demonstrate compliance with the LPA and lighting control requirements in each exterior area type.

Exterior Area Type		Exterior LPA	Controls	Location on the plans
<input type="checkbox"/>	All exterior areas		All lighting is automatically controlled to shut off the lighting when daylight is available.	
<input type="checkbox"/>	Base allowance	200 W	Luminaires are turned off or the power is reduced by a minimum of 75% during nonoperating hours.	
<input type="checkbox"/>	Façade lighting	0.10 W/ft ²	Luminaires are turned off or the power is reduced by a minimum of 75% during nonoperating hours.	
<input type="checkbox"/>	Roof terraces, special feature areas, walkways, plazas and ramps	0.07 W/ft ²	Luminaires are turned off or the power is reduced by a minimum of 75% during nonoperating hours.	
<input type="checkbox"/>	Landscape	0.036 W/ft ²	Luminaires are turned off or the power is reduced by a minimum of 75% during nonoperating hours.	
<input type="checkbox"/>	Entry doors	14 W/linear ft	Luminaires are turned off or the power is reduced by a minimum of 75% during nonoperating hours.	
<input type="checkbox"/>	Stairs	Exempt	No additional controls required.	
<input type="checkbox"/>	Parking lots and drives	0.037 W/ft ²	Luminaires mounted 25 ft or less above grade are controlled to reduce the power by at least 50% when no activity is detected for not longer than 15 minutes.	
<input type="checkbox"/>	All other areas not listed	0.20 W/ft ²	Luminaires are turned off or the power is reduced by a minimum of 75% during nonoperating hours.	