Lighting, Motor and Electrical Requirements List, pg 1 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2025 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

Project: PPSB: Puyallup Public Safety Building - 2021 WSEC 1015 39th Ave SE 100 Puyallup, WA 98374

PRCTI20250324



Date: 2025-02-27

Applies	Code Section	Component	Compliance Information Required In Permit Documentation	Location in Documents	Building Department Notes
LIGHTING S	SCOPE	1		1	1
	C103.1	Construction documents - General	For a shell & core or tenant space (first build- out) project, indicate if there is no lighting scope included in the project.		
NA	C103.1	Construction documents - General	For an alteration project, indicate if there is no lighting scope included in the project.		
NA	C405.1	Lighting in sleeping units	Indicate general compliance path for permanently installed luminaires in sleeping units - vacancy controls & luminaire efficacy; or lighting power allowance.		
INTERIOR I	LIGHTING CONT	ROLS	·	1	
YES	C405.2	Interior lighting controls, general	For all interior lighting systems, indicate lighting control method (general lighting controls requirements or luminaire level lighting controls) on plans for all spaces and lighting zone(s) served; indicate exceptions applied to eligible spaces and light	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C405.2.3	Manual controls	Indicate on plans the method of manual lighting control, location of manual control device and the area or specific application it serves.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C405.2.4 C405.2.4.1	Manual interior light reduction controls	For general lighting not controlled by occupancy sensors, indicate on plans which method of manual 50% lighting load reduction is provided, or indicate applicable exception.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C405.2.1 C405.2.2	Method of automatic shut-off control	Indicate on plans the method of automatic shut-off control during unoccupied periods (occupancy sensor or time switch) for all lighting zones.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C405.2.1	Occupant sensor controls	Indicate on plans all luminaires that are controlled by occupant sensor controls; indicate controls are configured to turn luminaires 100% off when the space is unoccupied	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C405.2.1 C405.2.1.1	Occupant sensor controls	Indicate if occupant sensor controls are configured to be manual on or automatic on to not more than 50% power; indicate spaces eligible for exception that allows automatic on to 100% power.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
NA	C405.2.1.2	Occupant sensor controls - warehouse storage areas & library stacks	Indicate each aisleway within a warehouse or library stack space designated as a separate zone that is independently controlled		

Lighting, Motor and Electrical Requirements List, pg 2 of 13

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		Indicate occupant sensors are configured to automatically reduce lighting power by $\geq 50\%$ when the zone is unoccupied for over 20 minutes; indicate controls are configured to automatically restore lighting to full power when the zone or space is occupie	
C405.2.1.2	Occupant sensor controls - warehouse storage areas & library stacks	Indicate method of automatic 100% shut-off (occupancy sensor or time switch)	
C405.2.1.3	Occupant sensor controls - open plan office areas	For open plan office areas larger than 300 sf, indicate all general lighting control zones are ≤ 600 sf	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
C405.2.1.3	Occupant sensor controls - open plan office areas	Indicate all general lighting control zones are provided with vacancy controls that are configured to reduce lighting power by not less than 80% when the zone is unoccupied and turn luminaires 100% off when the control zone is unoccupied; indicate unoccup	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
C405.2.1.4	Occupant sensor controls - enclosed fire-rated stairwells	Indicate stairway lighting is provided with occupancy sensor controls that reduce lighting power by not less than 50% when the stairway in unoccupied and restore lighting to 100% when it is occupied.	
C405.2.1.5	Occupant sensor controls - corridors	Indicate corridor lighting is provided with occupancy sensor controls that reduce lighting power by not less than 50% when the corridor is unoccupied.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
C405.2.2.1	Automatic time switch controls	Indicate spaces on plans where time switch controls are configured to turn luminaires 100% off during unoccupied hours	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
		Indicate spaces on plans where time switch controls are configured to turn on lighting to full power versus 50% power	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
		Indicate locations of override switches on plans and the lighting zone(s) served; indicate that the area(s) served by each override switch does not exceed 5,000 sf.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
C405.2.5.2 C405.2.5.4	Daylight zones - Sidelit zones	Indicate primary and secondary sidelit daylight zone floor areas on plans	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
		For small vertical fenestration assemblies (rough opening less than 10% of primary daylight zone floor area) where daylight responsive controls are not required, provide fenestration area to daylight zone floor area calculation(s).	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
		Indicate toplit daylight zone floor areas on plans.	
C405.2.5 C405.2.5.1	Daylight responsive controls	Indicate on plans all lighting zone(s) served by daylight responsive controls; indicate that the area served by each control device does not exceed 2,500 SF	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
	C405.2.1.3 C405.2.1.3 C405.2.1.4 C405.2.1.4 C405.2.1.5 C405.2.2.1 C405.2.5.4	Current of the second	automatically reduce lighting power by ≥ 50% when the zone is unoccupied for over 20 minutes; indicate controls are configured to automatically restore lighting to full power when the zone or space is occupie C405.2.1.2 Occupant sensor controls - warehouse storage areas & library stacks Indicate method of automatic 100% shut-off (occupancy sensor or time switch) C405.2.1.3 Occupant sensor controls - open plan office areas larger than 300 sf, indicate all general lighting control zones are 5 600 sf C405.2.1.3 Occupant sensor controls - open plan office areas harger than 300 sf, indicate all general lighting control zones are configured to reduce lighting power by not less than 80% when the zone is unoccupied and true luminaters 100% off when the controls - open plan office areas C405.2.1.4 Occupant sensor controls that reduce lighting for when the controls - enclosed fire-rated stairwals Indicate stairway lighting is provided with occupancy sensor controls when the stairway in unoccupied and restore lighting to 100% when it is occupied. C405.2.1.4 Occupant sensor controls that reduce lighting power by not less than 50% when the corridor is unoccupied. C405.2.1.5 Occupant sensor controls that reduce lighting power by not less than 50% when the corridor is unoccupied. Indicate spaces on plans where time switch controls - corridors Indicate spaces on plans where time switch controls are configured to turn unimiaries 100% off during unoccupied hours Indicate spaces on plans where time switch controls are configured to turn on lighting to full power versus 50% p

Lighting, Motor and Electrical Requirements List, pg 3 of 13

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YES			Identify sidelit and toplit daylight zones that are not provided with daylight responsive controls and the exception(s) that apply	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C405.2.5.1	Daylight responsive controls	Indicate on plans that all daylight responsive controls provide continuous dimming to ≤15% full light output	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C405.2.5.1	Daylight responsive controls	Indicate that daylight responsive controls are configured to completely shut off all controlled lighting fixtures within the lighting zone.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C405.2.6	Additional controls - Specific application lighting controls	Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C405.2.6, Items 1.1 thru 1.6	Additional lighting controls for display, accent & supplemental task lighting	Indicate on plans that all display, accent and supplemental task lighting fixtures are controlled independently from general area lighting	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C405.2.6, Items 1.1 and 1.2	Display and accent lighting	For display and accent lighting fixtures, including lighting fixtures added per the C405.2.2.1 additional interior lighting power allowance, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupanc	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES			For display case lighting fixtures, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C405.2.6, Item 1.4	Supplemental task lighting	For supplemental task lighting fixtures including under-shelf or under-cabinet lighting, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C405.2.6, Item 1.5	Lighting equipment for sale or demonstration	For lighting equipment for sale or demonstration, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch)	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES			For exhibit lighting fixtures in galleries, museums and monuments, indicate on plans the separate manual controls for these fixtures and the type of automatic off controls (occupancy sensor or time-switch).	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
	C405.2.6, Item 2	Permanently installed lighting in sleeping units	Indicate method of automatic off control of all installed luminaires in sleeping units (vacancy or captive key card control); also refer to Receptacles.		

Lighting, Motor and Electrical Requirements List, pg 4 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2025 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.

NA C405.2.6, Item 3 Lighting for mon- visual applications (fod warming and lighting private or plans that lighting rightness are controlled independently (for monhuman life forms), indicate on plans that lighting rightness are controlled independently applicable actuancia lighting and locating of applicable actuancia lighting controls for non-visual lighting application itsures and applicable actuancia lighting controls for non-visual lighting right across the cert applicable actuancia lighting controls for non-visual lighting right across the cert applicable actuancia lighting controls for non-visual lighting right across the cert applicable actuancia lighting controls for applicable actuancia lighting controls for non-visual lighting right across the cert applicable actuancia lighting fixers are personse. Indicate on plans including fixtures that function as both normal and cencergory lighting fixers indicate on plans including fixtures that functions as both normal and cencergory lighting for restructed data genergies lighting fixtures; are provided using mocern applicable actuancia bighting power desiry (LPD) of all means of genes lighting fixtures; and coller pois (LDD) waters/Fr instructed and lighting controls of such (CHDC 2) and LPD is 2 OLD waters/Fr instructed lighting controls of such (CHDC 2) and LPD is 2 OLD waters/Fr instructed lighting controls of such (CHDC 2) and LPD is 2 OLD waters/Fr instructed lighting controls of such (CHDC 2) and the centere lighting controls of compary with deviated on plans including data control is specing provided (uncharred lighting controls of controls compliante well lighting controls of controls compliante method for antimatic big (CHDC 2) and the center lighting controls provided (uncharred lighting controls), are controls with accurately specing control ingering whith accurately provide sequence of perains that describe reguing controls functing and datesergies reguing controls ingering white acontrol sper					
Image: space	NA			(food warming and lighting for life support of nonhuman life forms), indicate on plans that lighting fixtures are controlled independently from both general area lighting and other	
Image: series of the series	NA			non-visual lighting application fixtures and applicable automatic lighting controls; indicate that the area served by each control	
Item 5 HERS FIGURATIONIghting Ioon plans including fixtures that function as both normal and emergency illuminationE4.11, E6.21, E6.22YESVersion of plans including fixtures if total LPD is > 0.01 Wats/SF, indicate on plans the method of automatic ishut-off council during unoccupied periods (cmergency relay & occupancy sensE0.01, E2.11, E6.22NAC405.2.8Advanced lighting controls in open office areasFor open office areas > 5.000 sf, indicate provided (luminaire level lighting controls) system is provided (luminaire level lighting controls) system is provided (luminaire level lighting controls).E4.01. E6.22NAC405.2.8.1Luminaire level lighting controls (LLC)Where LLC are provided to comply with (CLLC) or omply with C405.2.4.2 Enhanced digital interior lighting controls).E4.01. E0.01NAC405.2.8.1Luminaire level lighting controls (LLC)Information occupancy senseE4.01. E0.01NAC405.2.8.3Networked lighting controls complay with C405.2.1.3 requirements for open office areas) and continuos ful interior lighting controls is provide squence of operations that describes requiredE0.01, E2.11, E2.12, E0.01NAC405.2.8.3Networked lighting controls configured with occupancy sensing control (LLC)Indicate on plans that each LLC luminaire is operations that describes requiredE0.01, E2.11, E2.12, E4.11, E6.21, E6.22YESC405.2.8.3Networked lighting controls is privide sequence of operations that describes required privide Scale on occupancy and availabE0.01, E2.11, E2.12, E4.11, E6.21, E6.22YESC405.2.8.3Networked lighting <br< td=""><td>NA</td><td></td><td></td><td>purposes, indicate on plans that lighting fixtures are provided with manual control that</td><td></td></br<>	NA			purposes, indicate on plans that lighting fixtures are provided with manual control that	
Image: Addition of the second secon	YES			on plans including fixtures that function as	
Image: Controls in open office areaswhich advanced lighting controls ystem is provided (uminaire level lighting controls or networked lighting controls is provide sequence of operations that describes required sequence of lighting controls (LLC)Image: Networked lighting controls (NLC)Image: Networke	YES			density (LPD) of all means of egress lighting fixtures; if total LPD is \geq 0.01 Watts/SF, indicate on plans the method of automatic shut-off control during unoccupied periods	
Ighting controls (LLC)C405.2.8, or provided as the alternate lighting controls compliance method per C405.2, or to comply with C406.2.4.2 Enhanced digital interior lighting controls; provide sequence of operations that describes requiredImage: C405.2.8.1Luminaire level lighting controls (LLC)Indicate on plans that each LLLC luminaire is configured with occupancy sensing control functions (including C405.2.1.3 requirements) for open office areas) and continuous full range dimming controls to brighten or dim lights based on occupancy and availabE0.01, E2.11, E2.12, E1.11, E6.21, E6.22E0.01, E2.	NA	C405.2.8	controls in open	which advanced lighting control system is provided (luminaire level lighting controls or	
C405.2.8.3lighting controls (LLC)configured with occupancy sensing control functions (including C405.2.1.3 requirements for open office areas) and continuous full 		C405.2.8.1	lighting controls	C405.2.8, or provided as the alternate lighting controls compliance method per C405.2, or to comply with C406.2.4.2 Enhanced digital interior lighting controls; provide sequence of	
YESC405.2.8.2 C405.2.8.3Networked lighting control (NLC)Indicate on plans that each NLC luminaire is individually addressable or document exception applied; Indicate on plans that each NLC luminaire is configured with occupancy sensing control functions (including C405.2.1.3 requirements for open officeE4.11, E6.21, E6.22E4.11,	NA		lighting controls	configured with occupancy sensing control functions (including C405.2.1.3 requirements for open office areas) and continuous full range dimming controls to brighten or dim	
C405.2.8.3 control (NLC) individually addressable or document exception applied; Indicate on plans that each NLC luminaire is configured with occupancy sensing control functions (including C405.2.1.3 requirements for open office	YES	C405.2.8.2		C405.2.8, or to comply with C406.2.4.2 Enhanced digital interior lighting controls; provide sequence of operations that describes required NLC capabilities and performance	
areas)	YES			individually addressable or document exception applied; Indicate on plans that each NLC luminaire is configured with occupancy sensing control functions (including	

Lighting, Motor and Electrical Requirements List, pg 5 of 13

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YES	C405.8.3	High end trim	Where high end trim is required, luminaires shall be initially configured to limit maximum lumen output or lighting power to 85% or to the target design lighting power.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
INTERIOF	R LIGHTING CON	FROLS - ADDITIONAL	L ENERGY EFFICIENCY MEASURE		
	C406.2.4.2	Enhanced digital interior lighting controls	To comply with the enhanced interior lighting controls measure, provide calculations that demonstrate that lighting in $\geq 50\%$ of the project floor area is provided with LLLC (C405.2.8.1) or NLC (C405.2.8.2) controls with high end trim (C405.2.8.3)		
			Where LLLC is provided, indicate on plans that each LLLC controlled luminaire is configured with integral sensors; where NLC is provided, indicate on plans that each NLC controlled luminaire is configured to be independently addressable; provide sequence		
NA	C406.2.4.1	Enhanced lighting controls in Group R-2	In Group R-2 occupancies, indicate on plans a master control at the main entrance to each dwelling or sleeping unit that switches off all lights and switched receptacles (may be two controls, one for lights and the other for receptacles); indicate on plan		
INTERIO	R LIGHTING CON	FROLS - LIGHTING L	OAD MANAGEMENT MEASURE	1	1
NA	C406.3.1	Interior lighting DDC controls & real-time demand response	To comply with the interior lighting load management measure, indicate automatic lighting controls are connected to a central DDC system capable of activation by an external utility signal; where utility real-time demand or pricing program exists, indicat		
NA	C406.3.1	Interior lighting power reduction controls	Indicate lighting controls are configured to gradually reduce by continuous dimming the interior general area lighting power by ? 20% in response to a peak demand signal; calculate the percentage of total building floor area served by load management ligh		
NA	C406.3.1	Warehouse & retail storage interior lighting power reduction controls	For warehouse & retail storage areas, indicate method of interior general area lighting power reduction (continuous dimming by ? 20%; switching off ? 25% of lighting power).		
EXTERIO	R LIGHTING CON	TROLS			
YES	C405.2.9 C405.2.9.1 C405.2.9	Exterior lighting controls	For all exterior lighting, indicate on plans automatic controls (either daylight sensing or astronomic time clock) configured to turn lighting off when daylight is present; or indicate exception applied.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES			For exterior building facade & landscape lighting, indicate that controls are configured to turn this lighting off when daylight is present for a minimum of 6 hours per night, or from 1 hour after closing to 1 hour before opening per the occupancy schedul	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	

Lighting, Motor and Electrical Requirements List, pg 6 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2025 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.

YES			For outdoor parking area (not parking garage) luminaires that are mounted ≤ 24 feet high and are rated at ≥ 40 watts, indicate that controls are configured to turn this lighting off when daylight is present; in addition, indicate controls are config	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
YES			For exterior lighting other than building facade, landscape and outdoor parking area lighting, indicate controls are configured to reduce lighting power by at least 50% from 12am-6am, or 1 hour after closing to 1 hour before opening, or when no activity i	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
	C405.2.10	Parking garage lighting control	Indicate all interior parking garage lighting fixtures are provided with time switch controls (per C405.2.2.1) or occupancy sensor controls (per C405.2.1.1); indicate controls are configured to reduce lighting power by at least 30% when no activity is det	
NA	C405.2.10	Parking garage lighting control - Perimeter lighting zones	For parking garage lighting fixtures located within 20 feet of perimeter wall openings, indicate on plans that daylight sensing controls are configured to reduce lighting power by at least 50%, or exception applied	
	C405.2.10	Parking garage lighting control - Eye adaptation lighting	For lighting fixtures at vehicle entrances & exits, indicate on plans that daylight sensing controls are configured to reduce lighting power by at least 50% from sunrise to sunset.	
NA	C405.3	Lighting for plant growth and maintenance	For permanently installed lighting fixtures used specifically for plant growth and maintenance, indicate that the photosynthetic photon efficacy measured at the lamp or luminaire is ≥ 1.7 i _{<i>i</i>} /2mol/J in greenhouses and ≥ 1.9 i _{<i>i</i>} /2mol/J in all other indoo	
NA	C405.5.4	Exterior gas-fired lighting appliances	Indicate ignition system is a method other then continuously burning pilot light.	
INTERIOR	& EXTERIOR LI	GHTING CONTROL C	IRCUITS	
YES	C405.2.7	Area controls - Master control switches	Indicate location(s) of lighting master control switch(es) intended to control multiple independent switches; a circuit breaker may not be used as a lighting master control switch	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
YES			Verify the maximum power controlled by any single lighting control switch or automatic control device is no more than a 20 amp circuit loaded to ? 80%.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
INTERIOR	LIGHTING POW	ER & EFFICACY		· · · · · ·
YES	C405.4.1	Total connected interior lighting power	Include all luminaires in interior lighting fixture schedule; indicate fixture types, lamps, ballasts and rated watts per fixture; include rated wattage of lamps for luminaires with lamps connected directly to building power; include wattage limit of tran	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22

Lighting, Motor and Electrical Requirements List, pg 7 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2025 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.

NA	C406.2.3.1 C406.2.3.2	Reduced interior lighting power density (LPD)	To comply with the reduced interior LPD additional energy efficiency measure, demonstrate that total proposed interior LPD wattage is 10% or 20% lower than the total interior LPA wattage for the area the reduced lighting power measure is being applied to		
INTERIOR	LIGHTING POWI	ER & EFFICACY - AD	DDITIONAL ENERGY EFFICIENCY MEAS	URES	
YES	C405.4.2.2	Space-By-Space Method	Demonstrate that total proposed interior lighting wattage does not exceed the maximum allowed wattage; identify locations of space types on plans, including additional allowance retail display areas and areas with display, highlight and decorative lightin	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
NA	C405.4.2.1	Building Area Method	Demonstrate that total proposed interior lighting wattage per building does not exceed the sum of the maximum allowed wattages for all building area types; identify locations of building areas on plans; provide WSEC interior lighting compliance reports.		
INTERIOR	LIGHTING POWI	ER CALCULATION -	with unfinished spaces. INDICATE COMPLIANCE PATH TAKEN		
YES	C405.4.2	Interior lighting power allowance (LPA)	Indicate which interior LPA method is applied to the entire building (Building Area Method or Space-by-Space Method); indicate LPA applied is Space-by-Space Method for partial building projects and for buildings	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
NA			For all permenantly installed luminaires, indicate in interior lighting fixture schedule that rated lamp efficacy is ≥ 65 lumens/watt or luminaire efficacy is ≥ 45 lumens/watt.		
			Include all permanently installed luminaires in sleeping units in interior lighting fixture schedule; include luminaire lighting power or efficacy (lumens) depending on compliance path taken per C405.1		
	C405.1.1	Lighting in dwelling units	Include all permanently installed luminaires in dwelling units in interior lighting fixture schedule; include luminaire lighting power and efficacy (lumens)		
YES			Identify lighting equipment eligible for lighting power exemption in fixture schedule and in WSEC interior lighting compliance reports; indicate the exception applied.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES			Identify spaces eligible for lighting power exemption on plans and in WSEC interior lighting compliance reports; indicate the exception applied	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	

Lighting, Motor and Electrical Requirements List, pg 8 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2025 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.

	LPD - Dwelling & sleeping unit lamp efficacy	additional energy efficiency measure for a building with dwelling units or sleeping units, indicate in interior lighting fixture schedule that all permenantly installed luminaires have a rated lamp efficacy \geq 90 lume			
LIGHTING POW	ER & EFFICACY				
C405.5.2	Total connected exterior lighting power	Include all luminaires in exterior lighting fixture schedule; indicate fixture types, lamps, ballasts and rated watts per fixture; include rated wattage of lamps for luminaires with lamps connected directly to building power; include wattage limit of tran	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22		
		Identify exterior lighting applications eligible for lighting power exemption on plans and in WSEC exterior lighting compliance reports; indicate the exception applied.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22		
TABLE C405.5.3(1)	Exterior lighting zone	Indicate the building exterior lighting zone as specified by the AHJ.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22		
C405.5.1	Exterior building grounds lighting	For building grounds lighting fixtures rated at greater than 25 watts, indicate in exterior lighting fixture schedule that fixtures have a rated lamp efficacy \geq 100 lumens/watt or indicate the exception applied.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22		
R LIGHTING POW	ER CALCULATION				
C405.5.3	Exterior lighting power allowance (LPA)	Demonstrate that total proposed exterior surface lighting wattage does not exceed the maximum allowed wattage (including base site allowance); identify locations of exterior surfaces on plans; provide WSEC exterior lighting compliance reports	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22		
			Demonstrate that total proposed wattage for each additional allowance exterior surface type does not exceed the LPA for the surface type (includes base site allowance remaining after C405.5.3 LPA calculation); identify locations of additional allowance ex	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
SYSTEMS ALTE	RATIONS		·		
C503.7.1	New lighting systems and controls	Where new interior or exterior lighting systems are installed within an existing building site, indicate new lighting controls comply with C405.2; indicate commissioning of lighting controls (C408.4) and lighting system energy end-use metering (C409.3) wi	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22		
C503.7.2	Interior lighting & parking garage lighting alteration	Include all new luminaires in interior lighting fixture schedule in plans, provide same lighting fixture information as for new construction per C405.4.1 and C405.4.2			
	C405.5.2 TABLE C405.5.3(1) C405.5.1 C405.5.3 C405.5.3 C405.5.3 C405.5.3 C405.5.3 C405.5.3	Sleeping unit lamp efficacy SLIGHTING POWER & EFFICACY C405.5.2 Total connected exterior lighting power TABLE C405.5.3 Exterior lighting zone C405.5.1 Exterior building grounds lighting C405.5.3 Exterior lighting power C405.5.3 Exterior lighting power C405.5.3 Exterior building grounds lighting C405.5.3 Exterior lighting power allowance (LPA) SUSTEMS ALTERATIONS Statement and controls C503.7.1 New lighting systems and controls C503.7.2 Interior lighting & parking grange	sleeping unit lamp efficacy building with dwelling units or sleeping units indicate in interior lighting fixture schedule that all permenantly installed luminaires have a rated lamp efficacy ≥ 90 lume C405.5.2 Total connected exterior lighting power Include all luminaires in exterior lighting fixture schedule; indicate fixture types, lamps, ballasts and rated watts per fixture; include rated wattage of lamps for luminaires with lamps connected directly to building power; include wattage limit of tran TABLE C405.5.1 Exterior lighting zone Include the building exterior lighting compliance reports; indicate the exception applied. TABLE C405.5.1 Exterior building grounds lighting For building grounds lighting fixtures rated at greater than 25 watts, indicate in exterior lighting fixtures rated at greater than 25 watts, indicate in exterior indicate the exception applied. EUHTING POWENCALULATION Demonstrate that total proposed exterior surface lighting wattage does not exceed the maximum allowed wattage (including base site allowance); identify locations of exterior surfaces on plans; provide WSEC exterior surfaces on additional allowance exterio	Image: Steeping unit lamp efficacy building with dwelling units or sleeping units, indicate in interior lighting fixture schedule that all permenantly installed luminatres have a rated lamp efficacy ≥ 90 lume EXUSTING POWER & EFFLACY C405.5.2 C405.5.2 Total connected lighting fixture schedule; indicate fixture types, lamps, power all duminations and rated wattage of fixture; include maps for luminatines with lamps connected directly to building power; include wattage firming its with lamps connected directly to building power; include wattage limit of tran E0.01, E2.11, E2.12, E6.22 TABLE Exterior lighting zome indicate the screption applied. E0.01, E2.11, E2.12, E6.21, E6.22 C405.5.1 Exterior lighting zome indicate the screption applied. E0.01, E2.11, E2.12, E6.21, E6.22 C405.5.1 Exterior lighting zome indicate the screption applied. E0.01, E2.11, E2.12, E6.21, E6.22 C405.5.1 Exterior lighting zome indicate the screption applied. E0.01, E2.11, E2.12, E6.22 C405.5.1 Exterior lighting zome indicate the screption applied. E0.01, E2.11, E2.12, E6.22 C405.5.3 Exterior lighting zome indicate the screption applied. E0.01, E2.11, E2.12, E6.22 C405.5.3 Exterior lighting zome indicate the screption applied. E0.01, E2.11, E2.12, E6.22 C405.5.3 Exterior lighting indicate the screption applied. E0.01, E2.11, E2.12, E6.22 </td	

Lighting, Motor and Electrical Requirements List, pg 9 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2025 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.

			For alterations that add or replace $\geq 20\%$ of luminaires within an interior space or parking garage, indicate which interior lighting power allowance (LPA) method is applied to the alteration project area (Space-by-Space Method for partial building alte		
			Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the maximum allowed wattage (Space-by-Space Method) or the sum of the maximum allowed wattages for		
NA	C503.7.2	Interior lighting alterations (LPA) - Add/replace	For alterations that add or replace < 20% of luminaires in an interior space or parking garage, calculate total existing interior lighting wattage within the project area prior to the alteration		
YES	C503.7.2	Interior lighting alterations (LPD) - Add/replace	Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the total existing interior lighting wattage prior to the alteration; provide WSEC interior lighti	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES			Include all new luminaires in exterior lighting fixture schedule in plans, provide same lighting fixture information as for new construction per C405.5.2	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
	C503.7.2	Exterior lighting alterations (LPA) - Add/replace ≥ 20%	For alterations that add or replace $\geq 20\%$ of exterior lighting wattage, indicate exterior lighting power allowance (LPA) calculated in the same manner as for new construction		
YES	C503.7.2	Exterior lighting alterations (LPD) - Add/replace ≥ 20%	Demonstrate that total proposed exterior lighting wattage (including existing-to-remain lighting wattage) does not exceed the maximum allowed wattage; identify locations of surface types on plans, including additional allowance surfaces; provide WSEC exte	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
NA	C503.7.2	Exterior lighting alterations (LPA) - Add/replace	For alterations that add or replace < 20% of exterior lighting wattage, calculate total existing exterior lighting wattage prior to the alteration		
YES	C503.7.2	Exterior lighting alterations (LPD) - Add/replace	Demonstrate that total proposed exterior lighting wattage (including existing-to-remain lighting wattage) does not exceed the total existing exterior lighting wattage prior to the alteration; identify locations of surface types on plans, including additio	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C503.7.3	Interior lighting wiring & circuiting alterations	Where new wiring is installed to serve new interior luminaires and /or luminaires are relocated to a new circuit; indicate manual and automatic lighting controls are provided (as applicable) - manual & light reduction (C405.2.3 & C405.2.4); occupancy sens	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	

Lighting, Motor and Electrical Requirements List, pg 10 of 13

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YES			Where new wiring is installed to serve new exterior luminaires and /or luminaires are relocated to a new circuit; indicate circuit power area controls (C405.2.7) are provided; indicate commissioning of exterior lighting controls (C408.4) will be provided,	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
YES	C503.7.4	Lighting panel alterations	Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (including all new raceway and conductor wiring), indicate all of the same interior lighting controls requirements as for wiring & circuiting alterations apply,	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
	C503.7.5	Newly-created rooms	Where interior space(s) are reconfigured (permanently installed walls or ceiling-height partitions) to create new enclosed spaces, indicate the following manual and automatic lighting controls are provided (as applicable) - manual & light reduction (C405.	
NA	C504.2	Lighting repairs	Identify existing luminaires being upgraded with bulb and / or ballast replacement; indicate fixture alteration does not increase existing fixture wattage	
YES	C505.1	Change of interior space use	Identify spaces on plans where the building area type or space use type is being changed from one type to another per Tables C405.4.2(1) or (2) including additional allowance retail display areas and areas with display, highlight and decorative lighting	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
YES			Demonstrate that total proposed interior lighting wattage (including existing-to-remain lighting wattage) within the alteration project area does not exceed the maximum allowed wattage (Space-by-Space Method) or the sum of maximum allowed wattage per each	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
RECEPTAC	CLES		1	l l
YES	C405.10	Automatic receptacle control	Provide schedule on electrical plans that lists the number of controlled and uncontrolled receptacles in each space where controlled receptacles are required - classrooms, enclosed offices, conference rooms, copy/print rooms, break rooms and individual wo	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
YES			Identify all controlled and uncontrolled receptacles on electrical plans; indicate that \geq 50% of all receptacles are provided with automatic controls in each space where they are required; include receptacle configuration such as spacing between contro	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22
YES			Indicate on plans the method of automatic control for each controlled receptacle zone (occupant sensor or programmable time-of- day control); indicate that the area served by each control device does not exceed 5,000 sf.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22

Lighting, Motor and Electrical Requirements List, pg 11 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2025 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.

			1	
C405.2.6, Item 2	Switched receptacles in sleeping units	Indicate method of automatic off control of all switched receptacles in sleeping units (vacancy or key card control).		
C405.7.1	Electric receptacles at dwelling unit gas appliances	In all designated appliance locations within dwelling units (kitchen cooking appliances, laundry and domestic water heating), indicate electric receptacles or junction box & circuit within 12 inches of the appliance location with sufficient capacity to se		
C503.7.7	Electrical receptacle alerations	For alteration project areas \geq 5,000 sf where electric receptacles are added or replaced, indicate receptacles are provided with automatic controls per C405.10, or exception applied.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
MOTORS	I	·	1	1
C405.8	Electric motor efficiency	Include all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate motor type, horsepower, rpm, rated efficiency, or exception applied.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
RS, ESCALATOR	S & MOVING WALKS			
C405.9.1	Elevator cabs	For luminaires in each elevator cab, provide calculations that demonstrate average efficacy is not less than 35 lumens per watt		
		For elevators that do not have an integral air conditioning system, indicate rated watts per cfm for elevator cab ventilation fans do not exceed 0.33 watts per cfm		
		Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoccupied for a period of 15 minutes or more.		
C405.9.2	Escalators and moving walks	Indicate escalators and moving walks comply with ASME A17.1/CSA B44 and are provided with automatic controls that are configured to reduce operational speed to the minimum permitted when not in use, or exception applied.		
C405.9.3	Escalator energy recovery	Indicate escalators are designed to recover electrical energy when resisting overspeed in the down direction.		
LE ENERGY				
C411	Renewable Energy	For new construction, including additions, change of use, and change of occupancy, with floor area \geq 10000sf; provide documentation of on-site renewable energy capacity; provide calculations supporting applicable exceptions; if qualifying by exception provide an accounting for the additional Additional Energy Efficiency Credits that will be required		
	Item 2 C405.7.1 C503.7.7 C503.7.7 C405.8 C405.8 C405.9.1 C405.9.2 C405.9.3 C405.9.3	Item 2 in sleeping units C405.7.1 Electric receptacles at dwelling unit gas appliances C503.7.7 Electrical receptacle alerations SUBJE C405.8 Electric motor efficiency C405.9.1 Elevator cabs C405.9.2 Escalators and moving walks C405.9.3 Escalator energy recovery C405.9.3 Escalator energy	Item 2in sleeping unitsall switched receptacles in sleeping units (vacaney or key card control).C405.7.1Electric receptacles at dwelling unit gas appliances appliancesIn all designated appliance locations within dwelling units (kitchen cooking appliance), indicate electric receptacles or junction box & circuit with sufficient capacity to seC503.7.7Electrical receptacle alerationsFor alteration project areas > 5.000 sf where electric receptacles are added or replaced, indicate motor shet userEC405.8.Electric motorElectric motor shet user recever added or replaced, indicate receptacles and added or replaced, indicate receptacles are added or replaced, indicate receptacles, and added or replaced, indicate receptacles, and added or replaced, indicate receptacles, added or replaced, is not less than 35 lumens	Item 2In sleeping units tracency or key card control.C405.7.1Electric receptacles at dwelling unit gas appliances laundy and domestic water heating), indicate certic receptacles or junction box & circuit within 12 inches of the appliance location within 12 inches of us appliance locationC503.7.7Electrical receptacle alerationsFor alteration project area \geq 5.000 sf where electric receptacles are added or replaced,

Lighting, Motor and Electrical Requirements List, pg 12 of 13

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NA	C406.2.5	On-site and off-site renewable energy	To comply with the renewable energy measure, provide an accounting of on-site and any contracted off-site renewable energy capacity; for all off-site sources, indicate the C411.2 renewable energy source type, energy factor, and the rated capacity and calculated code credited kW; indicate on-site renewables used to comply with C411 or for a code exception elsewhere in the code; with the remaining renewable energy provide Equation 4-17 calculations showing the achieved credits and that the achieved credits are ? the base credits for the measure		
	C406.2.5	On-site and off-site renewable energy	Provide documentation that all off-site renewable energy systems comply with Sections C411.2.2 and C411.2.3 including all contracts, and the ownership and location of off-site generation		
ELECTRIC	C ENERGY STOR	AGE - LOAD MANAGM	IENT MEASURE		
NA	C406.3.4	Electric energy storage	To comply with the electrical energy storage load managment measure, indicate automatic controls shall store electricity in electric storage devices during nonpeak periods and use stored energy during peak periods; Document the total electric storage device capacity; indicate it is ? 5 Wh/sf (58 Wh/sm) of gross building area; for proration provide the proration calculations supporting the claimed credit		
GENERAL	ELECTRICAL S	YSTEMS			
YES	C405.6	Electrical transformers	Include electrical transformer schedule on electrical plans; indicate transformer type, size (kVA), efficiency, or exception applied.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
	C405.7	Dwelling unit electrical energy consumption	Indicate on electrical plans that each dwelling unit in a Group R-2 building has a separate electrical energy meter, or exception applied.		
YES	C405.11	Voltage drop	Indicate wire conductors are sized so that the maximum voltage drop from customer service conductors to branch circuit conductors is ≤ 5%.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C405.12	Alternating current- output uninterruptible power supplies (AC- output UPS)	Indicate in plans that AC-output UPS systems serving computer rooms meet or exceed the calculation and testing requirements identified in ENERGY STAR Program Requirements for Uninterruptible Power Supplies (UPS) ? Eligibility Criteria Version 2.0.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	

Lighting, Motor and Electrical Requirements List, pg 13 of 13

2021 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 -- Administered by ©2025 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.

YES	C408.4	Scope of electrical power & lighting systems commissioning	Indicate that all electrical systems (receptacles, transformers, motors, vertical & horizontal transportation) for which the WSEC requires control functions and/or configuration to perform specific functions are required to be commissioned; include docume	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES			Where total building lighting load is ≥ 10 kW or the total lighting load of luminaires requiring daylight sensing and/or occupancy control is ≥ 5 kW, indicate that all automatic lighting control systems are required to be commissioned; or provide ca	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C408.1.1	Commissioning requirements in construction documents	Indicate Cx requirements in plans and specifications for all applicable electrical and lighting control systems	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C408.1.2 C103.6.3	Commissioning requirements in construction documents	 General summary of Cx plan shall include the following: 1) Narrative description of activities; 2) Responsibilities of the Cx team; 3) Schedule of activities including verification of project close out documentation (C103.6); 4) Conflict of interest plan 	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C408.1.3 C408.1.4	Commissioning requirements in construction documents	Include in general summary that a Cx project report and Cx Compliance Checklist (Figure C408.1.4.1) shall be completed by the Certified Cx Professional and provided to the owner prior to the final electrical inspection.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
YES	C408.4.1	Functional performance testing criteria	Identify in plans and specifications the intended operation of all electrical equipment and controls during all modes of operation, including interfacing between new and existing-to-remain systems.	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
PROJECT	CLOSE OUT			' '	
YES	C103.6.3	Documentation requirements	Indicate in plans that project close out documentation is required; indicate information shall include WSEC lighting compliance reports that document all interior lighting areas and space types, exterior lighting surface types, interior/exterior lighting	E0.01, E2.11, E2.12, E4.11, E6.21, E6.22	
If "no" is sel	lected for any question	on, provide explanation.		· · · · · · · · · · · · · · · · · · ·	