

LIGHTING COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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Project & Applicant Information	Project Title	Wesley Bradley Park Phase 2 - Care Center - 2021 WSEC		For Building Department Use: PRCNC20240424	Date: Dec 03, 2024
	Project Address	707 39th Ave. SE Puyallup, WA 98374			
	Applicant Name	Jill Krance			
	Applicant Phone	952-252-4822			
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For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com					

General Occupancy	All Commercial		General Building Use Type		Healthcare, Senior Care Community	Building Cond. Floor Area	37,315
General Project Types	New Building	New Building or Addition Lighting Scope	Interior Lighting Exterior Lighting	Alteration Lighting Scope		Project Cond. Floor Area	37,315
						Floors Above Grade	1
						Compliance Method	General Prescriptive
Lighting Project Description	Skilled nursing addition with interior LED lighting & dimmer control. Exterior lighting shall be controlled by photo-cell.						

Lighting Compliance Scope and Method	Project Type	Interior / Exterior (Interior includes both interior & parking)	Luminaire Replacement Scope	Compliance Method	LPA Calculation Adjustment	Compliance Verification
	New Building	Interior Lighting		Building area	No Calculation Adjustments selected	COMPLIES
	New Building	Exterior Lighting			Not applicable to exterior	COMPLIES
Additional Energy Efficiency (AEC) Measures Included	Reduced lighting power density - 10% lower than LPA		Load Management (LDM) Measures Included		No lighting or electrical load management measures included in project	

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Lighting Power Calculation		NEW BUILDING - INTERIOR LIGHTING			Compliance Verification		COMPLIES
Compliance Method			Building area	LPA Calculation Adjustment			LPA x 0.9

Interior Lighting Power Allowance - Building Area					
Building Areas	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 0.9)	Total Proposed Watts By Building Area	Compliance Status by Building Area
Hospital	37,388	0.84	28,265	25,326	COMPLIES

Proposed Lighting Power Density								
Fixture Type/Application	Fixture ID	Building Area	New or Existing-to-Remain	Quantity of Fixtures, CLDs or Luminaires (#F)	Watts per Fixture, CLD or Luminaire (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures								
Decorative	U2	Hospital	New	45	45			2,025
Decorative	C1	Hospital	New	13	30			390
Decorative	C2	Hospital	New	16	40			640
Decorative	C3	Hospital	New	9	33			297
Decorative	C4	Hospital	New	20	30			600
Decorative	C5	Hospital	New	8	30			240
Decorative	C6	Hospital	New	1	33			33
Decorative	C7	Hospital	New	12	20			240
Decorative	C8	Hospital	New	4	8			32
Decorative	C10	Hospital	New	1	30			30

Decorative	C13	Hospital	New	1	120		120
Decorative	C14	Hospital	New	1	10		10
Decorative	C15	Hospital	New	3	15		45
Decorative	C16	Hospital	New	48	10		480
Decorative	C17	Hospital	New	14	15		210
Decorative	C18	Hospital	New	1	30		30
Decorative	C19	Hospital	New	3	30		90
Direct / indirect pendant	K	Hospital	New	26	30		780
Troffer	A	Hospital	New	36	58		2,088
Troffer	A1	Hospital	New	16	55		880
Troffer	B	Hospital	New	84	36		3,024
Recessed downlight	D	Hospital	New	231	16		3,696
Recessed downlight	D1	Hospital	New	29	11		319
Recessed downlight	U1	Hospital	New	173	10		1,730
Recessed downlight	C9	Hospital	New	15	10		150
Wall-mounted	M	Hospital	New	9	55		495
Wall-mounted	N	Hospital	New	4	53		212
Wall-mounted	U3	Hospital	New	36	30		1,080
Other fixture type	H	Hospital	New	38	38		1,444
Other fixture type	H1	Hospital	New	2	98		196
Other fixture type	U4	Hospital	New	104	7		728
Other fixture type	U5	Hospital	New	34	28		952
Other fixture type	U6	Hospital	New	34	60		2,040

Project Title	Wesley Bradley Park Phase 2 - Care Center - 2021 WSEC				Date	Dec 03, 2024
Proposed Fixtures Details		NEW BUILDING - INTERIOR LIGHTING				
Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	Building Area	New or Existing-to-Remain	
Individual Fixtures						
Decorative	U2	E1.1A & E1.1B	LED	Hospital	New	
	Fixture Description: U2			Are these fixtures located within a daylight zone?: No		
	Do these fixtures require specific application lighting controls?: None required					
Decorative	C1	E1.1A & E1.1B	LED	Hospital	New	
	Fixture Description: 24" Pendant			Are these fixtures located within a daylight zone?: No		
	Do these fixtures require specific application lighting controls?: None required					
Decorative	C2	E1.1A & E1.1B	LED	Hospital	New	
	Fixture Description: 19" Pendant			Are these fixtures located within a daylight zone?: No		
	Do these fixtures require specific application lighting controls?: None required					
Decorative	C3	E1.1A & E1.1B	LED	Hospital	New	
	Fixture Description: 36" Pendant			Are these fixtures located within a daylight zone?: No		
	Do these fixtures require specific application lighting controls?: None required					
Decorative	C4	E1.1A & E1.1B	LED	Hospital	New	
	Fixture Description: 30" flush mounted			Are these fixtures located within a daylight zone?: No		
	Do these fixtures require specific application lighting controls?: None required					
Decorative	C5	E1.1A & E1.1B	LED	Hospital	New	
	Fixture Description: 18" pendant			Are these fixtures located within a daylight zone?: No		
	Do these fixtures require specific application lighting controls?: None required					
Decorative	C6	E1.1A & E1.1B	LED	Hospital	New	
	Fixture Description: 36" Pendant			Are these fixtures located within a daylight zone?: No		
	Do these fixtures require specific application lighting controls?: None required					
Decorative	C7	E1.1A & E1.1B	LED	Hospital	New	

	Fixture Description: Vanity Light			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Decorative	C8	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: Glass panel Light			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Decorative	C10	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: 46" Surface Fixture			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Decorative	C13	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: Linear cove			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Decorative	C14	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: 4" Sconce			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Decorative	C15	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: Lighted Mirror			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Decorative	C16	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: Tape light			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Decorative	C17	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: 48" Linear Fixture			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Decorative	C18	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: Linear Fixture			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Decorative	C19	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: Pool Cove			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Direct / indirect pendant	K	E1.0A	LED	Hospital	New
	Fixture Description: Pool Lighting			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Troffer	A	E1.0A	LED	Hospital	New
	Fixture Description: Flat Panel			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: General display/accent lighting, occupancy or time switch				
Troffer	A1	E1.0A	LED	Hospital	New
	Fixture Description: Basket Troffer			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: General display/accent lighting, occupancy or time switch				
Troffer	B	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: 2x2 Troffer			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: General display/accent lighting, occupancy or time switch				
Recessed downlight	D	E1.0A	LED	Hospital	New
	Fixture Description: 4" downlight			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Recessed downlight	D1	E1.1B	LED	Hospital	New
	Fixture Description: 4" downlight			Are these fixtures located within a daylight zone?: Yes, controls provided	
	Daylight zone location(s):			Do these fixtures require specific application lighting controls?: Lighting for non-human life forms, dedicated control	
Recessed downlight	U1	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: U1			Are these fixtures located within a daylight zone?: No	

	Do these fixtures require specific application lighting controls?: None required				
Recessed downlight	C9	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: wall wash			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Wall-mounted	M	E1.0A	LED	Hospital	New
	Fixture Description: Stair Fixture			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: General display/accent lighting, occupancy or time switch				
Wall-mounted	N	E1.0A	LED	Hospital	New
	Fixture Description: N			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				
Wall-mounted	U3	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: U3			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: Medical/dental task lighting, manual control				
Other fixture type	H	E1.1B	LED	Hospital	New
	Fixture Description: 4' Strip Light			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: General display/accent lighting, occupancy or time switch				
Other fixture type	H1	E1.1b	LED	Hospital	New
	Fixture Description: 8' Strip Fixture			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: General display/accent lighting, occupancy or time switch				
Other fixture type	U4	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: U4			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: Medical/dental task lighting, manual control				
Other fixture type	U5	E1.1A & E1.1B	LED	Hospital	New
	Fixture Description: UnderCabinet Light			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: Medical/dental task lighting, manual control				
Other fixture type	U6	E1.1A & E1.1B	Incandescent	Hospital	New
	Fixture Description: Heat Lamp			Are these fixtures located within a daylight zone?: No	
	Do these fixtures require specific application lighting controls?: None required				

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Lighting Power Calculation	NEW BUILDING - EXTERIOR LIGHTING			Compliance Verification	COMPLIES
Exterior Lighting Zone	ZONE 2		Base Site Allowance		280

Exterior Lighting Power Allowance								
Exterior Surface	Surface Sub-Type	Surface Area (SF)	LPA (Watts/SF)	Linear Feet (LF)	LPA (Watts/LF)	Total Watts Allowed (LPA x SF) or (LPA x LF)	Total Proposed Watts	Compliance Status
Building entrances and exits	Pedestrian entrances & exits			500	9.8	4,900		
Base Site Allowance						280		
Totals						5,180	720	COMPLIES

Proposed Exterior Lighting Power Density							
Fixture Type	Fixture ID	Exterior Surface Type	Quantity of Fixtures (#F)	Watts or Wattage Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures							
Canopy	CC	Building entrances and exits - Pedestrian entrances & exits	20	15			300
Wall-mounted	BB	Building entrances and exits - Pedestrian entrances & exits	20	15			300
Wall-mounted	AA	Building entrances and exits - Pedestrian entrances & exits	10	12			120

	Proposed Total LPD	720
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