

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	5th Street SE Office/Storage - 2021 WSEC	For Building Department Use: PRCNC20250116	Date: Dec 07, 2024
	Project Address	111 5th St SE Puyallup, WA		
	Applicant Name	Scott Kelly		
	Applicant Phone	253-759-0118		
	Applicant Email	ScottK@crossengineers.com		
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	Office, Other	Building Cond. Floor Area	4,120
General Project Types	New Building	New Building or Addition Lighting Scope	Interior Lighting Exterior Lighting	Alteration Lighting Scope	Project Cond. Floor Area	4,120
					Floors Above Grade	2
					Compliance Method	General Prescriptive
Lighting Project Description						

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	Reduced lighting power density option - 20%	COMPLIES
	New Building	Exterior Lighting			Not applicable to exterior	COMPLIES
Additional Energy Efficiency (AEC) Measures Included	Reduced lighting power density - 20% 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 0.8		

Interior Lighting Power Allowance - Building Area					
Building Areas	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 0.8)	Total Proposed Watts By Building Area	Compliance Status by Building Area
Office	4,120	0.64	2,110	1,813	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								
Other fixture type	Type A4	Office	New	7	40			280
Other fixture type	Type B1/B1X	Office	New	4	15			60
Other fixture type	Type B2	Office	New	1	9			9
Other fixture type	Type A1	Office	New	16	88			1,408
Other fixture type	Type A2	Office	New	1	30			30
Other fixture type	Type A3	Office	New	2	13			26
Exempt Fixtures								
Emergency (off when unoccupied)	Type X1 and X2	Office	New	8				

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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						
Other fixture type	Type A4	Sheet E3	LED	Office	New	
Fixture Description:			Are these fixtures located within a daylight zone?:			
Do these fixtures require specific application lighting controls?:						
Other fixture type	Type B1/B1X	Sheet E3	LED	Office	New	
Fixture Description:			Are these fixtures located within a daylight zone?:			
Do these fixtures require specific application lighting controls?:						
Other fixture type	Type B2	Sheet E2	LED	Office	New	
Fixture Description:			Are these fixtures located within a daylight zone?:			
Do these fixtures require specific application lighting controls?:						
Other fixture type	Type A1	Sheet E2	LED	Office	New	
Fixture Description:			Are these fixtures located within a daylight zone?:			
Do these fixtures require specific application lighting controls?:						
Other fixture type	Type A2	Sheet E2	LED	Office	New	
Fixture Description:			Are these fixtures located within a daylight zone?:			
Do these fixtures require specific application lighting controls?:						
Other fixture type	Type A3	Sheet E2	LED	Office	New	
Fixture Description:			Are these fixtures located within a daylight zone?:			
Do these fixtures require specific application lighting controls?:						
Exempt Fixtures						
Emergency (off when unoccupied)	Type X1 and X2	Sheet E2 and E3		Office	New	
Fixture Description: Exit Signs/ Egress Lights			Do these fixtures require specific application lighting controls?: Lighting for non-visual applications, dedicated control			

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

				Remaining Base Site Allowance Watts			280		
Exterior Additional Lighting Power Allowance									
Additional LPA Surface	Surface Sub-Type	Surface Area (SF)	LPA (Watts/SF)	# of Items	LPA (Watts per # of items)	Total Watts Allowed (LPA x SF) or (LPA x # of Items)	Total Proposed Watts by Surface Type	Proposed Watts Exceeding LPA	Compliance Status
Building façade		1,650	0.075			124	138	14	
Total Proposed Watts Exceeding LPA								-14.2	
Remaining Base Site Allowance								266	COMPLIES

Proposed Exterior Additional Lighting Power Density							
Fixture Type	Fixture ID	Additional LPA 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 Fixture							
Other fixture type	Type E2	Building façade -	3	18			54
Other fixture type	Type E1/E1X	Building façade -	6	14			84

Fixture Type	Fixture ID	Location in Documents	Lamp Type	Additional LPA Surface Type	New or Existing-to-Remain
Individual Fixture					

Other fixture type	Type E2	Sheet E2	LED	Building façade -	New
	Do these fixtures require specific exterior lighting controls?: Daylight sensing off controls				
Other fixture type	Type E1/E1X	Sheet E2	LED	Building façade -	New
	Do these fixtures require specific exterior lighting controls?: Daylight sensing off controls				