


# LIGHTING COMPLIANCE SUMMARY

PRCNC20240175

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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<b>Project &amp; Applicant Information</b>	<b>Project Title</b>	Freeman Logistics - Bld B - 2018 WSEC	For Building Department Use: 	<b>Date:</b> Jan 31, 2024
	<b>Project Address</b>	4801 FREEMAN RD E Puyallup, WA 98371		
	<b>Applicant Name</b>	Randy Brown		
	<b>Applicant Phone</b>	206-228-8000		
	<b>Applicant Email</b>	Randy.Brown@Synthesispllc.com		

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

<b>General Occupancy</b>	All Commercial		<b>General Building Use Type</b>	Warehouse, General Storage	<b>Building Cond. Floor Area</b>	255,580
<b>General Project Types</b>	New Building	<b>New Building or Addition Lighting Scope</b>	Interior Lighting Exterior Lighting	<b>Alteration Lighting Scope</b>	<b>Project Cond. Floor Area</b>	255,580
					<b>Floors Above Grade</b>	1
					<b>Compliance Method</b>	Compliance Method 1 - General
<b>Lighting Project Description</b>	New Industrial Building - Tilt Up Construction - High Bay fixtures for Interior and wall packs & sconces for the exterior					

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

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<b>Lighting Power Calculation</b>	NEW BUILDING - INTERIOR LIGHTING			<b>Compliance Verification</b>	COMPLIES	
<b>Compliance Method</b>	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
Warehouse	253,399	0.40	81,088	35,800	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)
<b>Individual Fixtures</b>								
Horizontal surface-mount	1x4 surface mounted	Warehouse	New	4	22			88
Other fixture type	High Bay LED	Warehouse	New	186	192			35,712

<b>Project Title</b>	Freeman Logistics - Bld B - 2018 WSEC				<b>Date</b>	Jan 31, 2024
<b>Proposed Fixtures Details</b>	NEW BUILDING - INTERIOR LIGHTING					
Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	Building Area	New or Existing-to-Remain	
<b>Individual Fixtures</b>						
Horizontal surface-mount	1x4 surface mounted	A2.1 - sprinkler & electrical	LED	Warehouse	New	
	Fixture Description: 1X4 SURFACE-MOUNTED LED W/ WRAP-AROUND ACRYLIC			Are these fixtures located within a daylight zone?: No		
	Do these fixtures require specific application lighting controls?: Exit access & egress lighting per IBC Section 1006.1					
Other fixture type	High Bay LED	High Bay LED	LED	Warehouse	New	

Fixture Description: High Bay 2'x4' LED	Are these fixtures located within a daylight zone?: Yes, controls provided
Daylight zone location(s): Toplit daylight zones	Dimming method:
Do these fixtures require specific application lighting controls?:	

<b>Project Title</b>	<b>Freeman Logistics - Bld B - 2018 WSEC</b>	<b>Date</b>	<b>Jan 31, 2024</b>
<b>Lighting Power Calculation</b>	<b>NEW BUILDING - EXTERIOR LIGHTING</b>	<b>Compliance Verification</b>	<b>COMPLIES</b>
<b>Exterior Lighting Zone</b>	<b>ZONE 2</b>	<b>Base Site Allowance</b>	<b>400</b>

Exterior Tradable 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	Entry canopies	652	0.25			163		
Building entrances and exits	Loading dock	33,750	0.35			11,813		
Building entrances and exits	Pedestrian entrances & exits			81	14	1,134		
Building entrances and exits	Vehicular entrances & exits			24	14	336		
Uncovered parking areas and drives		135,692	0.04			5,428		
Base Site Allowance						400		
<b>Totals</b>						<b>19,273</b>	<b>2,620</b>	<b>COMPLIES</b>

Proposed Tradable 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)
<b>Individual Fixtures</b>							
Wall-mounted	wall sconces	Building entrances and exits - Entry canopies	6	20			120
Wall-mounted	wall sconces	Uncovered parking areas and drives -	6	20			120
Wall-mounted	Wall Pack	Uncovered parking areas and drives -	2	70			140
Wall-mounted	Wall Pack	Building entrances and exits - Pedestrian entrances & exits	20	70			1,400
Wall-mounted	Wall Pack	Building entrances and exits - Loading dock	10	70			700
Wall-mounted	Wall Pack	Building entrances and exits - Vehicular entrances & exits	2	70			140
<b>Proposed Total LPD</b>							<b>2,620</b>

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