

LIGHTING COMPLIANCE SUMMARY

2018 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	Freeman Logistics - Bld A - 2018 WSEC	For Building Department Use: Date: Jan 04, 2024
	Project Address	Freeman Road Puyallup, WA 98371	
	Applicant Name	Lisa Ehli	
	Applicant Phone	425-445-8288	
	Applicant Email	lisa.ehli@synthesispllc.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	Warehouse, General Storage	Building Cond. Floor Area	232,857	
General Project Types	New Building	New Building or Addition Lighting Scope	Interior Lighting Exterior Lighting	Alteration Lighting Scope	Project Cond. Floor Area	232,857
					Floors Above Grade	1
					Compliance Method	Compliance Method 1 - General
Lighting Project Description	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

Project Title	Freeman Logistics - Bld A - 2018 WSEC	Date	Jan 04, 2024
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
Warehouse	254,035	0.40	81,291	28,504	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								
Horizontal surface-mount	1x4 surface mounted	Warehouse	New	4	22			88
Other fixture type	High Bay LED	Warehouse	New	148	192			28,416

Project Title	Freeman Logistics - Bld A - 2018 WSEC	Date	Jan 04, 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	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?: None required				
Other fixture type	High Bay LED	A2.1	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?:	

Project Title	Freeman Logistics - Bld A - 2018 WSEC	Date	Jan 04, 2024
Lighting Power Calculation	NEW BUILDING - EXTERIOR LIGHTING	Compliance Verification	COMPLIES
Exterior Lighting Zone	ZONE 2	Base Site Allowance	400

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	Loading dock	22,096	0.35			7,734		
Building entrances and exits	Pedestrian entrances & exits			69	14	966		
Uncovered parking areas and drives		141,980	0.04			5,679		
Base Site Allowance						400		
Totals						14,779	2,110	COMPLIES

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)
Individual Fixtures							
Wall-mounted	Wall Pack	Uncovered parking areas and drives -	5	70			350
Wall-mounted	Wall Pack	Building entrances and exits - Loading dock	4	70			280
Wall-mounted	wall sconces	Uncovered parking areas and drives -	7	20			140
Wall-mounted	Wall Pack	Building entrances and exits - Pedestrian entrances & exits	18	70			1,260
Wall-mounted	wall sconces	Building entrances and exits - Pedestrian entrances & exits	4	20			80
Proposed Total LPD							2,110