


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	Seatown Electric 60x120 Pre-Engineered Metal Building - 2018 WSEC	For Building Department Use:  Received by Email 6/20/2023	Date: Mar 24, 2023
	Project Address	4200 78th St. WE Mukilteo, WA 98275		
	Applicant Name	Tom Griffin		
	Applicant Phone	425-317-8017		
	Applicant Email	tom@caparchgroup.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, Distribution	Building Cond. Floor Area	11,733
General Project Types	New Building	New Building or Addition Lighting Scope	Interior Lighting Exterior Lighting	Alteration Lighting Scope		Project Cond. Floor Area	11,733
						Floors Above Grade	1
						Compliance Method	Compliance Method 1 - General
Lighting Project Description	High bay LED lighting fixtures to be installed within new pre-engineered metal building for storage of mechanical equipment inventory.						

Lighting Compliance Scope and Method	Project Type	Interior / Exterior (Interior includes both interior & parking)	Luminaire Replacement Scope	Compliance Method	LPA Calculation Adjustment	Compliance Verification
	Additional Efficiency Options Included	New Building	Interior Lighting		Building area	Reduced lighting power density option - 20%
New Building		Exterior Lighting			Not applicable to exterior	COMPLIES

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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
Warehouse	11,733	0.40	3,754	3,360	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								
Suspended	L-1	Warehouse	New	14	240			3,360

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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						
Suspended	L-1	A-2.1	LED	Warehouse	New	
	Fixture Description: UFO High Bay LED			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	400	

Exterior Tradable Lighting Power Allowance								
Tradable Surface	Tradable 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 Tradable Proposed Watts	Tradable Compliance Status
Building entrances and exits	Pedestrian entrances & exits			62	14	868		
Base Site Allowance						400		
Totals						1,268	780	COMPLIES

Proposed Tradable Lighting Power Density							
Fixture Type	Fixture ID	Tradable 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	L-3	Building entrances and exits - Pedestrian entrances & exits	5	135			675
Wall-mounted	L-2	Building entrances and exits - Pedestrian entrances & exits	3	35			105
Tradable Proposed Total							780