COMcheck Software Version 4.1.5.3

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC Project Title: Minnesota Places Project Type: **New Construction**

Construction Site: Portland, OR

Owner/Agent: Wright Architecture 2222 NE Oregon St, Ste 213 Portland, OR 97232 503.206.8380

Designer/Contractor: MFIA, Inc. 2007 SE Ash St. Portland, OR 97214 503.234.0548

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Common Areas (Multifamily)	15767	0.68	10722
		Total Allowed Watts =	= 10722

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Common Areas (Multifamily)				
LED 1: A1: 4FT INDUST STRIP: LED Linear 22W:	1	35	28	980
LED 2: A2: 4FT ENCLOSED STRIP: LED Linear 22W:	1	13	24	312
LED 3: B1: 4FT GEN PURP STRIP: LED Linear 33W:	1	14	35	490
LED 4: B2: LINEAR DIR/INDIR: LED Other Fixture Unit 6.5W:	1	236	6	1369
LED 5: B3: WALL DIR/INDIR: LED Other Fixture Unit 6.5W:	1	476	6	2761
LED 6: B4: WALL DIRECT: LED Undercabinet Unit 4W:	1	720	3	1872
LED 7: C1: 5" DIA CLNG: LED MR 10W:	1	11	10	110
		Total Propos	ed Watts =	7894

Interior Lighting PASSES: Design 26% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Denise Taylor, Designer	Denise Taylor	08.13.2021
Name - Title	Signature	Date

Project Title: Minnesota Places Report date: 08/13/21

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COMcheck Software Version 4.1.5.3



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Minnesota Places
Project Type: New Construction

Exterior Lighting Zone 2 (Residential mixed use area (LZ2))

Construction Site: Owner/Agent: Portland, OR Wright Arch

Wright Architecture 2222 NE Oregon St, Ste 213 Portland, OR 97232 503.206.8380 Designer/Contractor: MFIA, Inc. 2007 SE Ash St. Portland, OR 97214 503.234.0548

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Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Bldg. Entries (Entry canopy)	24 ft2	0.25	Yes	6
		Total Tradab	ole Watts (a) =	6
		Total All	lowed Watts =	6
	Total All	owed Supplemen	tal Watts (b) =	400

- (a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
- (b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Bldg. Entries (Entry canopy 24 ft2): Tradable Wattage				
LED 1: L4: 4.5" DIA DWNLT: LED PAR 15W:	1	8	15	120
	Total Trad	dable Propos	sed Watts =	120

Exterior Lighting PASSES: Design 70% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Denise Taylor, Designer	Denise Taylor	08.13.2021
Name - Title	Signature	Date

Project Title: Minnesota Places Report date: 08/13/21

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COM*check* Software Version 4.1.5.3 **Inspection Checklist**

Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	
C103.2 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☑Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	Complies Does Not Not Observable Not Applicable	

Additional Comments/Assumptions:

	1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2. 2 [EL22] ¹		□Complies □Does Not □Not Observable □Not Applicable	
C405.2.1, C405.2.1. 1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☑Complies □Does Not □Not Observable □Not Applicable	
C405.2.1. 2 [EL19] ¹	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	□Complies □Does Not □Not Observable ☑Not Applicable	
C405.2.1. 3 [EL20] ¹		□Complies □Does Not □Not Observable ☑Not Applicable	
1,		☑Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3. 1, C405.2.3. 2 [EL23] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☑Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL26] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	□Complies □Does Not □Not Observable ☑Not Applicable	
C405.2.4 [EL27] ¹	allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	□Complies □Does Not □Not Observable ☑Not Applicable	
C405.2.5 [EL28] ^{null}	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☑Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	☐Complies☐Does Not☐Not Observable☐Not Applicable	
C405.6 [EL26] ²	electric transformers meet the minimum efficiency requirements of Table C405 6	☐Complies ☐Does Not ☐Not Observable ☒Not Applicable	
C405.7 [EL27] ²	efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☑Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8.2, C405.8.2. 1 [EL28] ²	with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	□Complies □Does Not □Not Observable ☑Not Applicable	
C405.9 [EL29] ²	combination of feeders and branch circuits <= 5%.	☑Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	□Complies □Does Not □Not Observable □Not Applicable	Provided by contractor upon project completion.
C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	△Complies □Does Not □Not Observable □Not Applicable	See the Interior Lighting fixture schedule for values.
C405.5.1 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☑Complies □Does Not □Not Observable □Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.1.1 [FI57] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	⊠Complies □Does Not □Not Observable □Not Applicable	Provided by contractor upon project completion.
C408.2.5. 1 [FI16] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	Provided by contractor upon project completion.
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□ Complies □ Does Not □ Not Observable □ Not Applicable	Provided by contractor upon project completion.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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