



Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: ANCHO AGAVE LEE'S SUMMIT
Project Type: Alteration

Construction Site:
SUMMIT FAIR SHOPPING CNETER
LEE'S SUMMIT, Missouri 64086

Owner/Agent:
ANCHO & AGAVE

Designer/Contractor:
DICKERSON ENGINEERING INC.
3343 N.RIDGE AVENUE
ARLINGTON HEIGHTS, Illinois 60004
847-966-0290

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Common Space Types:Dining Area - Bar Lounge/Leisure	3500	0.93	3255
Allowance: Decorative Appearance (not lobbies) / Fix. ID: P-6	221 (a)	0.75	166 (b)
Allowance: Decorative Appearance (not lobbies) / Fix. ID: Track T-1	3500 (a)	0.75	912 (b)
Allowance: Decorative Appearance (not lobbies) / Fix. ID: Track T-2	500 (a)	0.75	120 (b)
Allowance: Decorative Appearance in lobbies / Fix. ID: P-2	576 (a)	0.90	518 (b)
Allowance: Decorative Appearance (not lobbies) / Fix. ID: WS-4,5,6	1000 (a)	0.75	750 (b)
Allowance: Decorative Appearance (not lobbies) / Fix. ID: WS-7,8,9,10	600 (a)	0.75	450 (b)
2-DINING BAR (Common Space Types:Food Preparation)	415	1.06	440
Allowance: Decorative Appearance (not lobbies) / Fix. ID: Track Lighting	415 (a)	0.75	192 (b)
Allowance: Decorative Appearance (not lobbies) / Fix. ID: S-1	415 (a)	0.75	165 (b)
3-VESTIBULE (Common Space Types:Corridor/Transition <8 ft wide)	121	0.66	80
Allowance: Decorative Appearance (not lobbies) / Fix. ID: C-1	50 (a)	0.75	38 (b)
4-KITCHEN ENTRY (Common Space Types:Corridor/Transition <8 ft wide)	44	0.66	29
5-BATHROOM CORRIDOR (Common Space Types:Corridor/Transition <8 ft wide)	94	0.66	62
6-MEN'S RESTROOM (Common Space Types:Restrooms)	166	0.85	141
7-WOMEN'S RESTROOM (Common Space Types:Restrooms)	150	0.85	128
8-MOP 109 (Common Space Types:Storage)	26	0.63	16
9-CHIP/WRAP 112 (Common Space Types:Food Preparation)	115	1.06	122
10-APP COOK LINE 114 (Common Space Types:Food Preparation)	205	1.06	217
11-COOK'S LINE 2 (Common Space Types:Food Preparation)	484	1.06	513
12-PREP 116 (Common Space Types:Food Preparation)	54	1.06	57
13-ICE 121 (Common Space Types:Food Preparation)	84	1.06	89
14-COOK LINE (Common Space Types:Food Preparation)	516	1.06	547
15-DISHWASHING (Common Space Types:Laundry/Washing Area)	307	0.43	132
16-STORAGE BOH (Common Space Types:Storage)	465	0.63	293
17-OFFICE 123 (Common Space Types:Office - Enclosed)	56	0.93	52
18-EMPLOYEE TOILET 125 (Common Space Types:Restrooms)	49	0.85	42
19-EMPLOYEE TOILET 126 (Common Space Types:Restrooms)	48	0.85	41
20-ELECTRICAL 127 (Common Space Types:Electrical/Mechanical)	42	0.43	18

Total Allowed Watts = 9584

(a) Area claimed must not exceed the illuminated area permitted for this allowance type.

(b) Allowance is (B x C) or the actual wattage of the fixtures given in Proposed Power section, whichever is less.

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
<u>Common Space Types: Dining Area - Bar Lounge/Leisure (3500 sq.ft.)</u>				
P-1: DINING PENDANT: Other:	1	16	8	128
P-6: LOUNGE PENDANT: Other:	1	45	4	202
C-2 (BEVERAGE): BEVERAGE LIGHTING: Other:	1	3	15	45
WS-1: WALL SCONCE: Other:	1	7	4	32
Track T-1: TRACK LTG: Wattage based on 114 feet of track	0	0	912	912
Track T-2: 2' TRACK: Wattage based on total luminaires	0	0	120	120
S-1 (BEVERAGE): TAPE LTS: Other:	1	14	2	21
P-2: STRING LTS: Other:	1	56	60	3360
WS-4,5,6: SIGNAGE: Other:	1	3	400	1200
WS-7,8,9,10: SIGNAGE: Other:	1	5	100	500
<u>DINING BAR (Common Space Types: Food Preparation, 415 sq.ft.)</u>				
D-1: SHELVING LTG: Other:	1	36	5	180
Track Lighting: Wattage based on 24 feet of track	0	0	192	192
S-1: BAR TAPE LIGHTS: Other:	1	110	2	165
<u>VESTIBULE (Common Space Types: Corridor/Transition <8 ft wide, 121 sq.ft.)</u>				
C-1: STRING LTS: Other:	1	6	15	90
P-4: PENDANT: Other:	1	1	5	5
<u>KITCHEN ENTRY (Common Space Types: Corridor/Transition <8 ft wide, 44 sq.ft.)</u>				
C-2: DOWN LTS: Other:	1	2	15	30
<u>BATHROOM CORRIDOR (Common Space Types: Corridor/Transition <8 ft wide, 94 sq.ft.)</u>				
P-2: PENDANT: Other:	1	3	5	15
<u>MEN'S RESTROOM (Common Space Types: Restrooms, 166 sq.ft.)</u>				
WS-2: WALL SCONCE: Other:	1	5	5	25
P-7: PENDANTS: Other:	1	2	6	12
<u>WOMEN'S RESTROOM (Common Space Types: Restrooms, 150 sq.ft.)</u>				
WS-2: WALL SCONCE: Other:	1	5	5	25
P-7: PENDANTS: Other:	1	2	6	12
<u>MOP 109 (Common Space Types: Storage, 26 sq.ft.)</u>				
A-1: 2X4: Other:	1	1	51	51
<u>CHIP/WRAP 112 (Common Space Types: Food Preparation, 115 sq.ft.)</u>				
C-2: DOWNLIGHT: Other:	1	9	15	135
<u>APP COOK LINE 114 (Common Space Types: Food Preparation, 205 sq.ft.)</u>				
C-2: DOWNLIGHT: Other:	1	10	15	150
<u>COOK'S LINE 2 (Common Space Types: Food Preparation, 484 sq.ft.)</u>				
A-1: 2X4: Other:	1	6	51	306
<u>PREP 116 (Common Space Types: Food Preparation, 54 sq.ft.)</u>				
A-1: 2X4: Other:	1	3	51	153
<u>ICE 121 (Common Space Types: Food Preparation, 84 sq.ft.)</u>				
A-1: 2X4: Other:	1	2	51	102
<u>COOK LINE (Common Space Types: Food Preparation, 516 sq.ft.)</u>				
A-1: 2X4: Other:	1	9	51	459
<u>DISHWASHING (Common Space Types: Laundry/Washing Area, 307 sq.ft.)</u>				
A-1: 2X4: Other:	1	7	51	357
<u>STORAGE BOH (Common Space Types: Storage, 465 sq.ft.)</u>				
A-1: 2X4: Other:	1	9	51	459
<u>OFFICE 123 (Common Space Types: Office - Enclosed, 56 sq.ft.)</u>				
A-3: 1X4: Other:	1	2	10	20
<u>EMPLOYEE TOILET 125 (Common Space Types: Restrooms, 49 sq.ft.)</u>				
WS3: WALL SCONCE: Other:	1	1	5	5
C-2: DOWNLIGHT: Other:	1	2	15	30

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
<u>EMPLOYEE TOILET 126 (Common Space Types: Restrooms, 48 sq.ft.)</u>				
WS3: WALL SCONCE: Other:	1	1	5	5
C-2: DOWNLIGHT: Other:	1	2	15	30
<u>ELECTRICAL 127 (Common Space Types: Electrical/Mechanical, 42 sq.ft.)</u>				
A-2: 2X4: Other:	1	1	51	51
Total Proposed Watts =				9584

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project 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 COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

GREG L. DOFFIN, PE

Name - Title

Signature



04/25/2025

Date



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: ANCHO AGAVE LEE'S SUMMIT
Project Type: Alteration
Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site:
SUMMIT FAIR SHOPPING CENTER
LEE'S SUMMIT, Missouri 64086

Owner/Agent:
ANCHO & AGAVE

Designer/Contractor:
DICKERSON ENGINEERING INC.
3343 N. RIDGE AVENUE
ARLINGTON HEIGHTS, Illinois 60004
847-966-0290

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Entry canopy	195 ft ²	0.25	Yes	49
Dining area	421 ft ²	0.65	Yes	274
Walkway < 10 feet wide	683 ft of	0.5	Yes	342
ENTRY (Pedestrian and vehicular entrances and exits)	6 ft of door	14	Yes	84
DINING (Pedestrian and vehicular entrances and exits)	6 ft of door	14	Yes	84
Total Tradable Watts (a) =				832
Total Allowed Watts =				832
Total Allowed Supplemental 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 Fixture	D Fixture Watt.	E (C X D)
<u>Entry canopy (195 ft²): Tradable Wattage</u>				
EXD-2: Other:	1	96	4	432
<u>Dining area (421 ft²): Tradable Wattage</u>				
EXWS-2: Other:	1	3	32	96
EXST-1: Other:	1	193	1	116
<u>Walkway < 10 feet wide (683 ft of walkway length): Tradable Wattage</u>				
EXD-2: Other:	1	96	4	432
EXWS-1: Other:	1	4	4	18
EXWS-2: Other:	1	5	32	160
<u>ENTRY (Pedestrian and vehicular entrances and exits, 6 ft of door width): Tradable Wattage</u>				
EXWS-2: Other:	1	1	32	32
<u>DINING (Pedestrian and vehicular entrances and exits, 6 ft of door width): Tradable Wattage</u>				
EXWS-1: Other:	1	2	4	9

Exterior Lighting FAILS



Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% 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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

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	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern ≥ 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.1.3 [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces ≥ 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas ≤ 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by $\geq 80\%$ of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.2, C405.2.2.1, C405.2.2.2 [EL21] ²	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.4 [EL26] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL27] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.5 [EL28] ^{null}	Manual controls required by the energy code are in a location with ready access to occupants and located where the controlled lights are visible, or identify the area served and their status.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.6 [EL30] ^{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%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.6 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.7 [EL27] ²	Electric motors meet the minimum 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).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8.2, C405.8.2.1 [EL28] ²	Escalators and moving walks comply 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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.1 [FI16] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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