



Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: BURGER KING #7234 LILLINGTON, NC
 Project Type: Alteration

Construction Site: 1601 S MAIN ST LILLINGTON, North Carolina 27546	Owner/Agent: SEVEN DESIGN SOLUTIONS, P.C 3025 HIGHLAND PARKWAY SUITE 850 DOWNERS GROVE, Illinois 60515	Designer/Contractor: Dickerson Engineering Inc. 3343 N. Ridge Ave Arlington Heights, Illinois 60004 847-966-0290
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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 - Family Restaurant	1340	0.89	1193
Allowance: Decorative Appearance / Fix. ID: E	1323 (a)	1.00	360 (b)
2-Common Space Types:Corridor/Transition <8 ft wide	103	0.66	68
3-Common Space Types:Restrooms	186	0.98	182
Total Allowed Watts =			1803

(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.

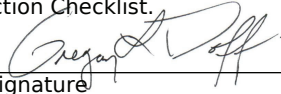
Proposed Interior Lighting Power

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 - Family Restaurant (1340 sq.ft.)</u>				
LED: L2A: PENDANT: Other:	1	8	10	80
LED: C6N: 6" DOWNLIGHT: Other:	1	10	10	105
LED: C6W: 6" DOWNLIGHT: Other:	1	4	18	72
Track Lighting: E: DINNING AREA TRACK: Wattage based on current limiting device capacity	0	0	360	360
Track Lighting: E: SERVICE AREA TRACK: Wattage based on current limiting device capacity	0	0	120	120
LED: L1: LINEAR PENDANT: Other:	1	4	30	120
LED: L3: BUN LIGHT: Other:	1	1	100	100
LED: UC: UNDER COUNTER LIGHTS: Other:	1	27	8	202
LED: BL: BEVERAGE STATION LIGHTING: Other:	1	30	8	225
<u>Common Space Types: Corridor/Transition <8 ft wide (103 sq.ft.)</u>				
LED: C6W: 6" DOWNLIGHT: Other:	1	3	18	54
<u>Common Space Types: Restrooms (186 sq.ft.)</u>				
LED: C6W: 6" DOWNLIGHT: Other:	1	4	18	72
Total Proposed Watts =				1510

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 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Gregory Doffin, PE
Name - Title


Signature

07/26/2024
Date



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: BURGER KING #7234 LILLINGTON, NC
 Project Type: Alteration
 Exterior Lighting Zone 3 (Other (LZ3))

Construction Site:
 1601 S MAIN ST
 LILLINGTON, North Carolina 27546

Owner/Agent:
 SEVEN DESIGN SOLUTIONS, P.C
 3025 HIGHLAND PARKWAY SUITE
 850
 DOWNERS GROVE, Illinois 60515

Designer/Contractor:
 Dickerson Engineering Inc.
 3343 N. Ridge Ave
 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)
Drive-up windows/doors	2 windows	400	No	800
Entry canopy	700 ft2	0.4	Yes	280
Illuminated area of facade wall or surface	1180 ft2	0.15	No	177
Total Tradable Watts (a) =				280
Total Allowed Watts =				1257
Total Allowed Supplemental Watts (b) =				750

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 750 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>Drive-up windows/doors (2 windows or doors): Non-tradable Wattage</u>				
LED: M: CANOPY LIGHT: Other:	1	2	30	60
LED: SL1: CANOPY LIGHT: Other:	1	2	60	120
<u>Entry canopy (700 ft2): Tradable Wattage</u>				
LED: SL3: LED STRIP: Other:	1	91	8	682
<u>Illuminated area of facade wall or surface (1180 ft2): Non-tradable Wattage</u>				
LED: SL2: WALL LIGHT: Other:	1	5	30	150
Total Tradable Proposed Watts =				682

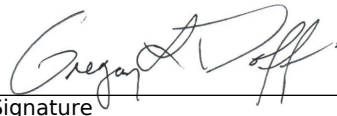
Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project 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 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Gregory Doffin, PE

Name - Title



Signature

07/26/2024

Date



Inspection Checklist

Energy Code: 2015 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
C405.2.1 [EL15] ¹	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<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 [EL18] ¹	Occupancy sensors installed in required 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, C405.2.2.3 [EL23] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.2.1 [EL22] ²	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.3 [EL16] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.3, C405.2.3.1, C405.2.3.2 [EL20] ¹	Primary sidelighted areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.3, C405.2.3.1, C405.2.3.3 [EL21] ¹	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<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 [EL4] 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 [EL8] 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 [EL25] ^{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	Requirement will be met.
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	Exception: Requirement does not apply.

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	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.
C408.2.5.1 [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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