COMcheck Software Version 4.1.2.1

Interior Lighting Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	Bojangle's Restaurant
Project Type:	New Construction

Construction Site:
J.E. Briscoe Way & Madison Blvd
Madison, AL

Owner/Agent:

Designer/Contractor:
J. Michael Jones, P.E.
Marshall & Bollwerk Engineering, Inc
8681 Hwy. 92
Suite 400
Woodstock, GA 30189
(678) 795-0333
mjones@mbeinc.net

Additional Efficiency Package(s)

Enhanced Interior Lighting Controls

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Dining: Cafeteria/Fast Food	3795	0.90	3416
		Total Allowed Watts =	3416

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-Dining: Cafeteria/Fast Food				
LED 1: Type "A" & "A1": LED Panel 44W:	1	31	45	1395
LED 2: Type "B": LED PAR 13W:	1	42	14	580
LED 3: Type "F": LED Other Fixture Unit 60W:	1	3	60	180
LED 4: Type "G": LED Linear 15W:	1	1	14	14
			Total Proposed Watts =	2169

Interior Lighting PASSES: Design 37% 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 2015 IECC requirements in COM*check* Version 4.1.2.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

J. Michael Jones, PE — 4/22/2020
Name - Title — Signature — Date

COMcheck Software Version 4.1.2.1

Exterior Lighting Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	Bojangle's Restaurant
Project Type:	New Construction
Exterior Lighting Zone	4 (High activity metropolitan commercial district)

Construction Site:
J.E. Briscoe Way & Madison Blvd
Madison, AL

Owner/Agent:

Designer/Contractor:
J. Michael Jones, P.E.
Marshall & Bollwerk Engineering, Inc
8681 Hwy. 92
Suite 400
Woodstock, GA 30189
(678) 795-0333
mjones@mbeinc.net

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Main entry	9 ft of door	30	Yes	270
Other door (not main entry)	3 ft of door	20	Yes	60
Entry canopy	403 ft2	0.4	Yes	161
Driveway	1600 ft2	0.13	Yes	208
			Total Tradable Watts (a) =	699
			Total Allowed Watts =	699
			Total Allowed Supplemental Watts (b) =	1300

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 1300 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)
Main entry (9 ft of door width): Tradable Wattage				
LED 1 copy 1: "C": Other:	1	3	60	180
Other door (not main entry) (3 ft of door width): Tradable Wattage				
LED 3: "OA": Other:	1	1	55	55
Entry canopy (403 ft2): Tradable Wattage				
LED 1: "C": Other:	1	7	60	420
Compact Fluorescent 1: "S": Quad 2-pin 28W: Electronic:	1	6	32	192
Driveway (1600 ft2): Tradable Wattage				
LED 2: "D": Other:	1	4	72	288
			Total Tradable Proposed Watts =	1135

Exterior Lighting PASSES: Design 43% 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 2015 IECC requirements in COM*check* Version 4.1.2.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

J. Michael Jones, PE — 4/22/2020
Name - Title — Signature — Date

COMcheck Software Version 4.1.2.1

Inspection Checklist

Energy Code: 2015 IECC

Requirements: 18.0% were addressed directly in the COM*check* 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	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.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
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)

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%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1 [EL18][1]	Occupancy sensors installed in required spaces.	☐Complies ☐Does Not ☐Not Observable ☐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.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.2.1 [EL22][2]	Automatic controls to shut off all building lighting installed in all buildings.	☐Complies ☐Does Not ☐Not Observable ☐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.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.3, C405.2.3.1, C405.2.3.2 [EL20][1]	Primary sidelighted areas are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
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.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.4 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐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.	☐Complies ☐Does Not ☐Not Observable ☐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%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

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	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.	☐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.*
C406.4 [FI54][1]	Enhanced digital lighting controls efficiency package: Interior lighting has following enhanced lighting controls in accordance with Section C405.2.2: Luminaires capable of continuous dimming and being addressed individually, <= 8 luminaires controlled in combination in a daylight zone, digital control system for fixtures, "Sequence of Operations" documentation, and functional testing per Section C408.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
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	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

Order Plans @ WWW.LDILine.com

R-2002

DATE	RELEASE
04.17.20	FOR CONSTRUCTION
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CHECKED BY: JMJ
DRAWN BY: JMJ

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ALABAMA LICENSED No. 22441 PROFESSIONAL ENGINEER J. MICHAEL JONES
4/22/2020

J.E. BRISCOE WAY & MADISON BLVD. PROJECT: R-2002
MADISON, MADISON COUNTY ALABAMA DATE: 04/17/20

Bojangles' RESTAURANT

LIGHTING ENERGY CALC'S & CHECKLIST

E-6