

COMcheck Software Version 4.1.2.1
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2015 IECC
 Project Title: Northern Tool & Equipment
 Project Type: Alteration
 Owner/Agent: Chaiguan/Chenhuazou
 Construction Date: 9401 Statesville Road, Charlotte, NC 28226

Allowed Interior Lighting Power

A	B	C	D
Area Category	Floor Area (ft ²)	Allowed Watts / ft ²	Allowed Watts (B X C)
1. Retail	22679	1.26	28587
		Total Allowed Watts =	28587

Proposed Interior Lighting Power

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
Retail (25000 sq ft)				
LED 1: 4x4 VTL 2x4 LED; Other	1	26	30	780
LED 2: D1: 1x4 VTL; Other	1	5	46	230
LED 3: D2: 1x4 VTL; Other	1	1	23	23
LED 4: 4x4 VTL LED highway; Other	1	98	182	17792
		Total Proposed Watts =		18755

Interior Lighting Analysis
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 4.1.2.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.
 Name: Yip
 Signature: [Signature]
 Date: 3-6-2020

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Inspection Checklist

Energy Code: 2015 IECC
 Requirements: 100.3% 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 or Requirement	Item Review	Compliant?	Comments/Assumptions
C103.2 (1904)	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 checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

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Section or Requirement	Item Review	Compliant?	Comments/Assumptions
C405.2.1 (1115)	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 (1115)	Occupancy sensors installed in required spaces.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 (1115)	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.2 (1122)	Automatic controls to shut off all building lighting installed in all buildings.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.3 (1123)	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Daylight zones on first floor in Group A-2 and M occupancies.
C405.2.3 (1123)	Primary sidelight areas are equipped with required lighting controls.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Sidelight zones on first floor in Group A-2 and M occupancies.
C405.2.3 (1123)	Enclosed spaces with daylight area under skylights and skylight monitors are equipped with required lighting controls.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.4 (1124)	Separate lighting control devices for specific uses installed per approved lighting plans.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 (1124)	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and supported from general lighting.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.3 (1125)	Exit signs do not exceed 5 watts per foot.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

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Section or Requirement	Item Review	Compliant?	Comments/Assumptions
C408.2 (1131)	Furnishes O&M instructions for systems and equipment to the building owner or designated representative.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.4.1 (1132)	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, identifying proposed watts are less than or equal to allowed watts.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the interior lighting fixture schedule for values.
C408.4.5 (1131)	Furnish as-built drawings for electric power systems within 90 days of system acceptance.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.5 (1133)	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Does not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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

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Project No: 17483
 Drawn By: CGB
 Date: 03-06-20
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