



Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: John Hotchkiss Commercial Office
 Project Type: New Construction

| | | |
|--|---|--|
| Construction Site: 2290 Old Ranch Road, Colorado Springs, CO 80908 | Owner/Agent: Chris Renn Affinity Engineering, LLC 7887 East Belleview Avenue, Suite 1100 Englewood, CO 80111 719.306.3411 christian@affinity-engineering.com | Designer/Contractor: Gary Mirzakhonov GSM Engineering 2538 Integrity Court Colorado Springs, CO 80918 719-266-1325 gsm.engin@gmail.com |
|--|---|--|

Additional Efficiency Package(s)

High efficiency HVAC. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Allowed Interior Lighting Power

| A Area Category | B Floor Area (ft ²) | C Allowed Watts / ft ² | D Allowed Watts (B X C) |
|--|---------------------------------------|---|-------------------------------|
| 1-Offices (Common Space Types:Office - Open Plan) | 2400 | 0.98 | 2352 |
| 2-Studio Office (Common Space Types:Office - Enclosed) | 736 | 1.11 | 817 |
| Total Allowed Watts = | | | 3169 |

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-Offices (Common Space Types:Office - Open Plan) | | | | |
| LED 1: A: Chandelier: LED A Lamp 11W: | 6 | 1 | 66 | 66 |
| LED 8: B: Chandelier: LED A Lamp 11W: | 3 | 2 | 33 | 66 |
| LED 9: C: Recessed: Other: | 1 | 15 | 14 | 218 |
| LED 10: D: Surface: LED A Lamp 9W: | 1 | 13 | 9 | 117 |
| LED 10: F: Wall sconce: LED A Lamp 9W: | 2 | 3 | 18 | 54 |
| LED 10: J: Lamp holder: LED A Lamp 9W: | 1 | 12 | 9 | 108 |
| LED 10: K: Wallwasher: Other: | 1 | 6 | 12 | 72 |
| 2-Studio Office (Common Space Types:Office - Enclosed) | | | | |
| LED 5: C: Recessed: Other: | 1 | 16 | 14 | 232 |
| Total Proposed Watts = | | | 932 | |

Interior Lighting PASSES: Design 71% 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 COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Gary Mirzakhanov, President
Name - Title

Gary Mirzakhanov
Signature

9-14-2019
Date



Inspection Checklist

Energy Code: 2015 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. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> 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%. | <input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |

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 | |
| 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 | <i>See the Interior Lighting fixture schedule for values.</i> |
| 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 | |
| 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 | |

Additional Comments/Assumptions:

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

