



# Interior Lighting Compliance Certificate

## Project Information

Energy Code: 2015 IECC  
 Project Title: IHC KBT Level 21 TI  
 Project Type: Alteration

Construction Site:  
 36 S State St.  
 Salt Lake City, UT 84111

Owner/Agent:

Designer/Contractor:  
 Tyler Squire  
 Spectrum Engineers  
 324 S State St  
 Suite 400  
 Salt Lake City, UT 84111  
 801-328-5151  
 tds@spectrum-engineers.com

## Allowed Interior Lighting Power

| A<br>Area Category    | B<br>Floor Area<br>(ft <sup>2</sup> ) | C<br>Allowed<br>Watts / ft <sup>2</sup> | D<br>Allowed Watts<br>(B X C) |
|-----------------------|---------------------------------------|---|-------------------------------|
| 1-Office              | 16060                                 | 0.82                                    | 13169                         |
| Total Allowed Watts = |                                       |   | 13169                         |

## Proposed Interior Lighting Power

| A<br>Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B<br>Lamps/<br>Fixture | C<br># of<br>Fixtures | D<br>Fixture<br>Watt. | E<br>(C X D) |
|---|------------------------|-----------------------|-----------------------|--------------|
| <b>Office (16060 sq.ft.)</b>                                      |                        |                       |                       |              |
| LED 1: (G-1): RECESSED LED TROFFER: Other:                        | 1                      | 9                     | 36                    | 324          |
| LED 2: (G-12): RECESSED LED TROFFER: Other:                       | 1                      | 148                   | 47                    | 6956         |
| LED 3: (LD-1): LED DOWNLIGHT 4": Other:                           | 1                      | 5                     | 24                    | 120          |
| LED 4: (LD-2): LED DOWNLIGHT 2": Other:                           | 1                      | 3                     | 20                    | 60           |
| LED 5: (RL-16): NARROW RECESSED LINEAR: Other:                    | 1                      | 4                     | 44                    | 176          |
| LED 6: (SS-1): GENERAL PURPOSE LED STRIP: Other:                  | 1                      | 2                     | 53                    | 106          |
| LED 7: (TX-1): DECORATIVE ELEVATOR LOBBY PENDA: Other:            | 1                      | 2                     | 100                   | 200          |
| Total Proposed Watts =  |                        |                       |                       | 7942         |

## 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 2015 IECC requirements in COMcheck Version 4.1.0.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

*Tyler Squire - Principal Engineer*

Name - Title

*Tyler Squire*

Signature

11/16/2018

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] <sup>1</sup> | 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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C406 [PR9] <sup>1</sup>   | 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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><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] <sup>1</sup>               | Lighting controls installed to uniformly reduce the lighting load by at least 50%.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C405.2.1 [EL18] <sup>1</sup>               | Occupancy sensors installed in required spaces.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C405.2.1, C405.2.2.3 [EL23] <sup>2</sup>   | Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.                              | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C405.2.2.1 [EL22] <sup>2</sup>             | Automatic controls to shut off all building lighting installed in all buildings.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C405.2.3 [EL16] <sup>2</sup>               | Daylight zones provided with individual controls that control the lights independent of general area lighting.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C405.2.3.1, C405.2.3.2 [EL20] <sup>1</sup> | Primary sidelighted areas are equipped with required lighting controls.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C405.2.3.1, C405.2.3.3 [EL21] <sup>1</sup> | Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C405.2.4 [EL4] <sup>1</sup>                | Separate lighting control devices for specific uses installed per approved lighting plans.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C405.2.4 [EL8] <sup>1</sup>                | 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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |                      |
| C405.3 [EL6] <sup>1</sup>                  | Exit signs do not exceed 5 watts per face.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><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] <sup>3</sup> | Furnished O&M instructions for systems and equipment to the building owner or designated representative.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |   |
| C405.4.1 [FI18] <sup>1</sup>           | 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<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <i>See the Interior Lighting fixture schedule for values.</i> |
| C408.2.5.1 [FI16] <sup>3</sup>         | Furnished as-built drawings for electric power systems within 90 days of system acceptance.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |   |
| C408.3 [FI33] <sup>1</sup>             | Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable |   |

**Additional Comments/Assumptions:**

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

