



COMcheck Software Version 4.0.7.1

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Torian Plum Boiler Room
Project Type: Addition
Construction Site: Owner/Agent: Designer/Contractor: Mark Stratman
MEP Engineering Inc.
6402 S. Troy Circle Suite 100
Centennial, CO 80111
720-541-6355
MStratman@mep-eng.com

Allowed Interior Lighting Power

| A Area Category | B Floor Area (ft ²) | C Allowed Watts / ft ² | D Allowed Watts (B X C) |
|---|---------------------------------------|---|-------------------------------|
| 1-Boiler Room (Common Space Types/Workshop) | 214 | 1.59 | 340 |
| Total Allowed Watts = | | | 340 |

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-Boiler Room (Common Space Types/Workshop) | | | | |
| C, C, Other: | 1 | 3 | 34 | 102 |
| Total Proposed Watts = | | | | 102 |

Interior Lighting PASSES: Design 70% 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 4.0.7.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark Stratman - MEP Engineering, Inc. Mark Stratman 04/16/2018
Name - Title Signature Date

Project Title: Torian Plum Boiler Room Report date: 04/16/18
Data filename: S:\Projects\2017\17109\2_Design\ComCheck\17109 Lighting COMcheck.cck Page 1 of 5



COMcheck Software Version 4.0.7.1

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Torian Plum Plaza
Project Type: New Construction
Exterior Lighting Zone: 3 (Other)
Construction Site: Torian Plum Plaza - Steamboat Owner/Agent: Designer/Contractor: Mark Stratman
MEP Engineering Inc.
6402 S. Troy Circle Suite 100
Centennial, CO 80111
720-541-6355
MStratman@mep-eng.com

Allowed Exterior Lighting Power

| A Area/Surface Category | B Quantity | C Allowed Watts / Unit | D Tradable Wattage | E Allowed Watts (B X C) |
|--|-----------------------|------------------------------|--------------------------|-------------------------------|
| Plaza (Plaza area) | 12285 ft ² | 0.16 | Yes | 1966 |
| Total Tradable Watts (a) = | | | | 1966 |
| Total Allowed Watts = | | | | 1966 |
| 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 Fixtures | D Fixture Watt. | E (C X D) |
|---|------------------------|-----------------------|-----------------------|--------------|
| Plaza (Plaza area 12285 ft ²): Tradable Wattage | | | | |
| A: A: Other: | 1 | 8 | 27 | 216 |
| B: B: Other: | 1 | 3 | 4 | 13 |
| Total Tradable Proposed Watts = | | | | 229 |

Exterior Lighting PASSES: Design 92% 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 COMcheck Version 4.0.7.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark Stratman - MEP Engineering, Inc. Mark Stratman 04/16/2018
Name - Title Signature Date

Project Title: Torian Plum Plaza Report date: 04/17/18
Data filename: S:\Projects\2017\17109\2_Design\ComCheck\17109 Plaza Lighting COMcheck.cck Page 1 of 5



COMcheck Software Version 4.0.7.1

Inspection Checklist

Energy Code: 2015 IECC

Requirements: 6.0% 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 | Requirement will be met. |

Additional Comments/Assumptions:

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

Project Title: Torian Plum Boiler Room Report date: 04/16/18
Data filename: S:\Projects\2017\17109\2_Design\ComCheck\17109 Lighting COMcheck.cck Page 2 of 5



COMcheck Software Version 4.0.7.1

Inspection Checklist

Energy Code: 2015 IECC

Requirements: 5.0% 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 (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 | |
| 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 | Requirement will be met. |

Additional Comments/Assumptions:

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

Project Title: Torian Plum Plaza Report date: 04/17/18
Data filename: S:\Projects\2017\17109\2_Design\ComCheck\17109 Plaza Lighting COMcheck.cck Page 2 of 5

| 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 30%. | <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 (EL23) ¹ | 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 (EL22) ¹ | 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) ¹ | Daylight zones provided with individual controls that contro 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 (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 (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)

Project Title: Torian Plum Boiler Room Report date: 04/16/18
Data filename: S:\Projects\2017\17109\2_Design\ComCheck\17109 Lighting COMcheck.cck Page 3 of 5

| Section # & Req.ID | Rough-In Electrical Inspection | Complies? | Comments/Assumptions |
|--------------------------------|---|--|----------------------|
| C405.2.5 (EL25) ¹ 4 | 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 | |

Additional Comments/Assumptions:

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

Project Title: Torian Plum Plaza Report date: 04/17/18
Data filename: S:\Projects\2017\17109\2_Design\ComCheck\17109 Plaza Lighting COMcheck.cck Page 3 of 5

| Section # & Req.ID | Final Inspection | Complies? | Comments/Assumptions |
|--------------------------------------|---|--|--|
| C303.3, C408.2.5 (F117) ¹ | 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 (F118) 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. |
| C408.2.5 (F116) ¹ | 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 (F133) 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:

NOTE: INTERIOR COMCHECK PAGE #5 IS BLANK

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

Project Title: Torian Plum Boiler Room Report date: 04/16/18
Data filename: S:\Projects\2017\17109\2_Design\ComCheck\17109 Lighting COMcheck.cck Page 4 of 5

| Section # & Req.ID | Final Inspection | Complies? | Comments/Assumptions |
|------------------------------|--|--|--|
| C405.5.1 (F119) 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. |

Additional Comments/Assumptions:

NOTE: EXTERIOR COMCHECK PAGE #5 IS BLANK

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

Project Title: Torian Plum Plaza Report date: 04/17/18
Data filename: S:\Projects\2017\17109\2_Design\ComCheck\17109 Plaza Lighting COMcheck.cck Page 4 of 5

W E N K

ASSOCIATES
PLANNERS &
ARCHITECTS
303.828.0003

MEP PROJECT #17109



MEP
ENGINEERING INC.
CLIENT CENTRIC CONSULTING
6402 S. Troy Circle Suite 100 (W) 303.936.1633
Centennial, CO 80111 (F) 303.936.1795
info@mep-eng.com www.mep-eng.com



WATERPROOFING / RENOVATION - PHASE 2
TORIAN PLUM PARKING STRUCTURE
STEAMBOAT SPRINGS, CO

Date 10.22.17
Drawn By MTS
Reviewed by DGM
Job No. 17109

Revisions
Name Date
BLDO DEPT #1 09/06/18
BLDO DEPT #2 04/17/18

Issue:
100% Construction Documents
Sheet Title:
ELECTRICAL COMCHECK

Sheet Number

E0.3