



# COMcheck Software Version 4.0.1 Interior Lighting Compliance Certificate

## Section 1: Project Information

Energy Code: **2009 IECC**  
Project Title: 185 Fore St  
Project Type: New Construction

Construction Site:  
185 Fore St  
Portland, ME 04101

Owner/Agent:

Designer/Contractor:

## Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts (B x C)
Office	4687	1	4687
Multifamily	14861	0.7	10403
Total Allowed Watts =			15090

## Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
<b>Office (4687 sq.ft.)</b>				
LED 1: A: Columbia LRO4-35ML: LED Panel 54W:	1	5	53	265
Linear Fluorescent 1: First FI Area 103: Columbia PT2-124-EPU-GLR: Other: Electronic:	1	4	24	96
LED 2: C: Columbia LBIL4-35ML: LED Other Fixture Unit 50W:	1	3	52	156
Linear Fluorescent 2: G: Columbia CS8-232-4EU: Other: Electronic:	4	8	128	1024
LED 3: First FI Lg Pendant (24/7): Eureka 4255-UCR: LED MR 8W:	1	2	8	16
Track lighting 1: L: Lithonia LTIKMSBK: Wattage based on 4 feet of track	0	0	120	120
LED 4: M: Focal Point FL6D: LED Other Fixture Unit 25W:	1	1	21	21
LED 5: M1: Focal Point FL6W: LED Other Fixture Unit 25W:	1	1	21	21
LED 6: First FI Area 101 Cove Lt (24/7: Focal Point Trace FTRL-AC-LL1: LED Other Fixture Unit 125W:	1	1	184	184
<b>Multifamily (14861 sq.ft.)</b>				
LED 7: B: Progress P8022-30/35K: LED Other Fixture Unit 13W:	1	34	13	442
LED 8: C: Columbia LBIL4-35ML: LED Other Fixture Unit 50W:	1	8	52	416
LED 9: D: Kenall Lighting AUCLLED-I-MW-16L: LED Linear 15W:	1	27	16	432
LED 10: F: Progress P87-LED: LED PAR 12W:	1	3	12	36
LED 11: J: Eureka 4255-UCR: LED MR 8W:	1	14	8	112
LED 12: J1: Tech Lighting KARAM Pendant: LED Other Fixture Unit 50W:	1	11	49	539
Halogen 1: K: Eureka 3442C-60: Other:	4	11	40	440
Track lighting 2: L: Lithonia LTIKMSBK: Wattage based on 4 feet of track	0	0	120	120
LED 13: M: Focal Point FL6D-RO: LED Other Fixture Unit 25W:	1	157	21	3297
LED 14: M1: Focal Point FL6W: LED Other Fixture Unit 25W:	1	21	21	441
LED 15: N: Contrast Lighting ECOL3C: LED MR 10W:	1	16	10	160
LED 16: P: Lithonia UCLD18: LED Undercabinet Unit 9W:	1	12	8.6	103.2
LED 17: Q: Eureka 4213-UCN: LED PAR 8W:	1	21	8	168
LED 18: R: Brownlee Lighting 5176-24-BN: LED Other Fixture Unit 25W:	1	44	25	1100
Incandescent 1: Tenant Supplied: TBD (Bedroom/Living Room): Incandescent 100W:	1	25	100	2500
Total Proposed Watts =			12209	

## Section 4: Requirements Checklist

Interior Lighting PASSES: Design 19% better than code.

### Lighting Wattage:

1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
15090	12209	YES

### Controls, Switching, and Wiring:

2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.
3. Daylight zones have individual lighting controls independent from that of the general area lighting.

#### Exceptions:

- Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.
- Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

4. Independent controls for each space (switch/occupancy sensor).

#### Exceptions:

- Areas designated as security or emergency areas that must be continuously illuminated.
- Lighting in stairways or corridors that are elements of the means of egress.

5. Master switch at entry to hotel/motel guest room.
6. Individual dwelling units separately metered.
7. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.
8. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.

#### Exceptions:

- Only one luminaire in space.
- An occupant-sensing device controls the area.
- The area is a corridor, storeroom, restroom, public lobby or sleeping unit.
- Areas that use less than 0.6 Watts/sq.ft.

9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

#### Exceptions:

- Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

10. Photocell/astronomical time switch on exterior lights.

#### Exceptions:

- Lighting intended for 24 hour use.

11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

#### Exceptions:

- Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

## Section 5: Compliance Statement

*Compliance Statement:* The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 4.0.1 and to comply with the mandatory requirements in the Requirements Checklist.

STEVEN JONASSEN  
Name - Title

Steven Jonassen  
Signature

11/2/15  
Date