



# COMcheck Software Version 3.9.1 Interior Lighting Compliance Certificate

## 2009 IECC

### Section 1: Project Information

Project Type: **New Construction**

Project Title : Seaside Rehabilitation and Healthcare

Construction Site:

850 Baxter Boulevard  
Portland, ME 04103

Owner/Agent:

First Atlantic Corporation  
100 Waterman Drive  
South Portland, ME 04106

Designer/Contractor:

Foreside Architects, LLC  
PO Box 66736  
Falmouth, ME 04105

### 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)
Hospital	20400	1.2	24480
Total Allowed Watts =			24480

### 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)
Hospital (20400 sq.ft.)				
LED: Type A: Lightolier #1101LED09N272-1113C / Other / Electronic	1	32	21	672
Compact Fluorescent: Type B: Forecast Lighting No. F615636NV / Twin Tube 13W / Electronic	3	34	39	1326
LED: Type C: Lightolier#1001LED09271-1013CD / Other / Electronic	1	12	21	252
Compact Fluorescent: Type D: Fprecast Lighting No. 190199836 / Other / Electronic	1	38	21	798
Compact Fluorescent 6: Type E: Forecast Lighting No. F606436 / Twin Tube 13W / Electronic	3	42	39	1638
Compact Fluorescent 7: Type F: Forecast Lighting No. F602536NV / Twin Tube 13W / Electronic	2	40	26	1040
Compact Fluorescent: Type G: Forecast Lighting No. 190196836 / Other / Electronic	1	39	18	702
Compact Fluorescent 8: Type H: Forecast Lighting No. F541036 / Twin Tube 13W / Magnetic	2	24	26	624
Compact Fluorescent 9: Type I: Forecast Lighting No. 190211836 / Twin Tube 18W / Electronic	3	21	57	1197
LED: Type J: Phillips No. 523-000028-61 / Other / Electronic	1	18	6	108
Halogen 1: Type K: Eureka Ltg No. 3442C-60-277V-SC / Other	4	10	40	400
Compact Fluorescent: Type L: Columbia #4PS22-424M-SFAA19-4EP / Twin Tube 24/26/27W / Electronic	4	36	96	3456
Compact Fluorescent: Type M: Kenall No.MR13FLPPMW42P1277 / Triple 4-pin 42W / Electronic	1	8	42	336
Compact Fluorescent 10: Type O: Progress Lighting No.P58832-30E / Quad 2-pin 13W / Electronic	2	2	26	52
LED: Type P: Lightolier No.1000LED09R271-109 / Other / Electronic	1	1	20	20
Compact Fluorescent 12: Type R: Progress Lighting No.P58832-30E / Quad 2-pin 18W / Electronic	1	1	18	18
Total Proposed Watts =			12639	

### Section 4: Requirements Checklist

**Lighting Wattage:**

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

Allowed Watts	Proposed Watts	Complies
24480	12639	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 3.9.1 and to comply with the mandatory requirements in the Requirements Checklist.

WILLIAM BENNETT PLS  
Name - Title

  
Signature

1/17/13  
Date