



COMcheck Software Version 3.7.1  
**Interior Lighting and Power  
 Compliance Certificate**

**90.1 (2004) Standard**

**Section 1: Project Information**

Project Type: **Alteration**

Project Title : Building 3030 Interior Remodel

Construction Site:  
 Utah National Guard  
 Buffdale, UT

Owner/Agent:  
 Utah National Guard

Designer/Contractor:  
 David Affleck  
 Spectrum Engineers  
 324 S. State Street  
 Salt Lake City, UT 84111  
 801-401-8473  
 dla@spectrum-engineers.com

**Section 2: General Information**

Building Use Description by: **Activity Type**

**Activity Area Compliance Exemption Qualifications**

Activity Area	Total Wattage		Total Pre-Alt. Fixtures	# Fixtures Repl./Added
	Pre-Alt.	Post-Alt.		
Common Space Types:Classroom/Lecture/Training (3629 sq.ft.): Compliance required.	---	---	---	---
Common Space Types:Conference/Meeting/Multipurpose (423 sq.ft.): Compliance required.	---	---	---	---
Common Space Types:Office - Enclosed (1085 sq.ft.): Compliance required.	---	---	---	---
Common Space Types:Electrical/Mechanical (80 sq.ft.): Compliance required.	---	---	---	---
Common Space Types:Corridor/Transition (1097 sq.ft.): Compliance required.	---	---	---	---
Common Space Types:Active Storage (418 sq.ft.): Compliance required.	---	---	---	---
Common Space Types:Stairs-Active (853 sq.ft.): Compliance required.	---	---	---	---
Common Space Types:Lounge/Recreation (550 sq.ft.): Compliance required.	---	---	---	---

**Section 3: Requirements Checklist**

**Interior Lighting:**

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

Allowed Watts	Proposed Watts	Complies
8999	7559	Passes

- 2. Exit signs 5 Watts or less per sign.

**Controls, Switching, and Wiring:**

- 3. Independent manual or occupancy sensing controls for each space (remote switch with indicator allowed for safety or security).
- 4. Occupant sensing control in class rooms, conference/meeting rooms, and employee lunch and break rooms.

*Exceptions:*

Spaces with multi-scene control; shop classrooms, laboratory classrooms, and preschool through 12th grade classrooms.





# COMcheck Software Version 3.7.1 Interior Lighting Application Worksheet

## 90.1 (2004) Standard

### Section 1: Allowed Lighting 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)
Common Space Types:Classroom/Lecture/Training	3629	1.4	5081
Common Space Types:Conference/Meeting/Multipurpose	423	1.3	550
Common Space Types:Office - Enclosed	1085	1.1	1194
Common Space Types:Electrical/Mechanical	80	1.5	120
Common Space Types:Corridor/Transition	1097	0.5	549
Common Space Types:Active Storage	418	0.8	334
Common Space Types:Stairs-Active	853	0.6	512
Common Space Types:Lounge/Recreation	550	1.2	660
Total Allowed Watts =			8999

### Section 2: Proposed Lighting Power Calculation

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Common Space Types:Classroom/Lecture/Training (3629 sq.ft.)				
Linear Fluorescent 2: GS-4: 2X4 LENS TROFFER / 48" T8 32W / Electronic	3	32	95	3040
Linear Fluorescent 3: W-5: WRAPP / 48" T8 32W / Electronic	3	12	95	1140
Common Space Types:Conference/Meeting/Multipurpose (423 sq.ft.)				
Linear Fluorescent 2: GS-4: 2X4 LENS TROFFER / 48" T8 32W / Electronic	3	5	95	475
Common Space Types:Office - Enclosed (1085 sq.ft.)				
Linear Fluorescent 1: GS-3: 2X4 LENS TROFFER / 48" T8 32W / Electronic	2	16	63	1008
Common Space Types:Electrical/Mechanical (80 sq.ft.)				
Linear Fluorescent 4: W-3: WRAPP / 48" T8 32W / Electronic	2	1	63	63
Common Space Types:Corridor/Transition (1097 sq.ft.)				
Linear Fluorescent 1: GS-3: 2X4 LENS TROFFER / 48" T8 32W / Electronic	2	1	63	63
Compact Fluorescent 5: DF-99: 6" DOWN LIGHT / Quad 2-pin 26W / Electronic	1	17	30	510
Linear Fluorescent 4: W-3: WRAPP / 48" T8 32W / Electronic	2	3	63	189
Common Space Types:Active Storage (418 sq.ft.)				
Linear Fluorescent 4: W-3: WRAPP / 48" T8 32W / Electronic	2	3	63	189
Common Space Types:Stairs-Active (853 sq.ft.)				
Linear Fluorescent 1: GS-3: 2X4 LENS TROFFER / 48" T8 32W / Electronic	2	4	63	252
Linear Fluorescent 6: WB-3: WALL WRAPP / 48" T8 32W / Electronic	2	2	63	126
Common Space Types:Lounge/Recreation (550 sq.ft.)				
Linear Fluorescent 1: GS-3: 2X4 LENS TROFFER / 48" T8 32W / Electronic	2	8	63	504
Total Proposed Watts =				7559

### Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Proposed Watts is greater than or equal to zero, the building complies.

Total Allowed Watts = 8999  
Total Proposed Watts = 7559  
Project Compliance = 1440

**Interior Lighting PASSES**