

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

2006 IECC

Section 1: Project Information

Project Type: **New Construction**

Project Title : Quest Diagnostics - Denton

Construction Site:
2817 Mayhill Road
Suite 130
Denton, TX 76208

Owner/Agent:
TGS Architects
5323 Spring Valley Road
Suite 200
Dallas, TX 75254
972-788-1945

Designer/Contractor:
Jordan & Skala Engineers
14240 Midway Road
Suite 350
Dallas, TX 75244
469-385-1616

Section 2: General Information

Building Use Description by: **Activity Type**

<u>Activity Type(s)</u>	<u>Floor Area</u>
Healthcare-Clinic	1250

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
1250	1198	YES

Controls, Switching, and Wiring:

2. 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.

3. Master switch at entry to hotel/motel guest room.
 4. Individual dwelling units separately metered.
 5. Each space provided with a manual control to provide uniform light reduction by at least 50%.

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.

6. 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.

7. Photocell/astronomical time switch on exterior lights.

Exceptions:

Lighting intended for 24 hour use.

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

Exceptions:

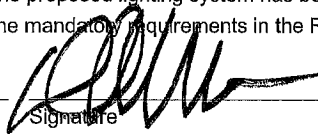
Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 4: 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 2006 IECC requirements in COMcheck Version 3.7.1 and to comply with the mandatory requirements in the Requirements Checklist.

DAVID MATTHEWS P.E.

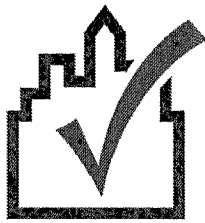
Name - Title



Signature

5.19.2010

Date



COMcheck Software Version 3.7.1
**Interior Lighting Application
 Worksheet**

2006 IECC

Section 1: Allowed Lighting Power Calculation

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B x C)
Healthcare-Clinic	1250	1	1250
Total Allowed Watts =			1250

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)
Healthcare-Clinic (1250 sq.ft.)				
Linear Fluorescent 1: Type A & AE: 2x4 / 48" T8 32W / Electronic	3	10	96	960
Linear Fluorescent 2: Type B & BE: 2x2 / 24" T8 17W / Electronic	3	7	34	238
Total Proposed Watts =				1198

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 = 1250
 Total Proposed Watts = 1198
 Project Compliance = 52

Interior Lighting PASSES: Design 4% better than code.