

18076069

REVIEWED FOR COMPLIANCE

Performance of this review does not relieve the applicant from full responsibility to comply with all applicable codes, ordinances and regulations 10/29/18

COMcheck Software Version 4.0.8.1  
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC  
Project Title: Ouzo Restaurant & Loch Bar  
Project Type: New Construction

Construction Site: 4444 Westheimer Rd, Houston, TX 77027  
Owner/Agent: Alexander Smith, 4102411224, afsmith11@gmail.com  
Designer/Contractor: JB Wyble & Associates P.A., 7950 Norfolk Ave 2nd Floor, Bethesda, MD 20814, 301.654.1410

Additional Efficiency Package(s)

Enhanced Interior Lighting Controls

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-OUZO (Dining: Family)	4383	0.95	4164
2-LOCH BAR (Dining: Family)	2446	0.95	2324
3-KITCHEN (Dining: Family)	1200	0.95	1140
4-MEZZANINE (Dining: Family)	1867	0.95	1774
Total Allowed Watts =			9401

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-OUZO (Dining: Family)				
LED 1: A1: Other	1	17	12	204
LED 2: A2: Other	1	7	12	84
LED 3: A3: Other	1	39	18	702
LED 4: A5: Other	1	9	15	135
LED 5: A6: Other	1	2	18	36
LED 6: B1: Other	1	12	2	22
Incandescent 1: B2: LED SCREW IN LAMP: Other	1	2	5	10
LED 7: C1: SWIFT: Other	1	167	6	1002
LED 8: C3: led tape 1.5W/FT: Other	1	90	2	135
LED 9: C4: BEND LED 4 TW/FT: Other	1	92	5	432
LED 10: C5: ROPE LIGHT SWIFT: Other	1	47	1	47
LED 10 copy 1: C6: TAPE LIGHT SWIFT: Other	1	119	3	357
Incandescent 2: D1: LED SCREW IN LAMP: Other	1	37	11	407
Incandescent 3: D2: LED SCREW IN LAMP: Other	1	11	26	286
Incandescent 4: D3: LED SCREW IN LAMP: Other	1	6	26	156
Incandescent 5: D4: LED SCREW IN LAMP: Other	1	60	2	108
Incandescent 6: D5: SCREW IN LAMP: Other	1	3	60	180
2-LOCH BAR (Dining: Family)				

Project Title: Ouzo Restaurant & Loch Bar  
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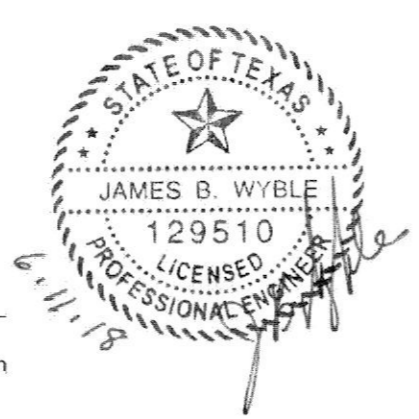
A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
LED 1: A4A1: Other	1	2	18	36
LED 2: A4B1: Other	1	5	18	90
LED 3: A4C: Other	1	1	18	18
LED 4: A5: Other	1	2	18	36
LED 9: C1: STRIP LED SWIFT: Other	1	53	3	159
LED 10: C2: STRIP LED SWIFT: Other	1	29	3	84
LED 11: C3: STRIP LED SWIFT: Other	1	16	3	48
LED 12: C4: 42" STRIP SWIFT: Other	1	24	3	72
LED 5: D4A: Other	1	3	16	54
LED 5 copy 1: D4A1: Other	1	10	18	180
LED 6: D4B: Other	1	6	18	108
LED 7: D4B1: Other	1	11	18	198
LED 8: D4C: Other	1	5	18	84
Track lighting 1: TA: (7) 8W HEADS: Wattage based on current limiting device capacity	0	0	100	100
Track lighting 2: TB: (4) 8W HEADS: Wattage based on current limiting device capacity	0	0	100	100
LED 13: BAR-LT-01: Other	1	1	135	135
LED 14: BAR-LT-02: Other	1	4	135	540
LED 15: BAR-LT-03: Other	1	2	60	120
LED 16 copy 1: BAR-LT-04: Other	1	4	7	28
LED 16: BAR-LT-05: Other	1	1	72	72
LED 17: BAR-LT-06: Other	1	6	72	432
LED 18: BAR-LT-07: Other	1	2	25	50
LED 19: BAR-LT-08: Other	1	1	72	72
LED 20: BAR-LT-09: Other	1	2	10	20
LED 21: BAR-LT-10: Other	1	2	9	18
3-KITCHEN (Dining: Family)				
LED 1: F1: ZK4: LED Other Fixture Unit 25W:	1	17	29	493
4-MEZZANINE (Dining: Family)				
LED 1: F1: ZK4: LED Other Fixture Unit 25W:	1	11	29	319
LED 2: W1: WORK LIGHT: LED Other Fixture Unit 25W:	1	9	25	225
Total Proposed Watts =			6094	

Interior Lighting PASSES: Design 14% 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 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

James B. Wyble, P.E.  
Professional Engineer  
Signature: *James B. Wyble* Date: 6/11/18



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Houston Public Works  
Building Code Enforcement Branch



COMMISSIONING STATEMENT

PURPOSE

The City of Houston Commercial Energy Conservation Codes requires details for commissioning to be provided in the construction documents for the mechanical systems, service water heating systems, and building envelope.

COMMISSIONING

"The commissioning process is a quality-oriented process for achieving, verifying, and documenting that the performance of facilities, systems, and assemblies meets defined objectives and criteria. The commissioning process assumes that owners, programmers, designers, contractors, commissioning team members, and operation and maintenance entities are fully accountable for the quality of their work. The Commissioning Team uses methods and tools to verify that the project is achieving the Owner's Project Requirements throughout the delivery of the project." (Source: NIBS Guideline Series)

CODE

ASHRAE 90.1-2013

Section 5.9 Building Envelope Commissioning. For projects larger than 50,000 ft² conditioned area, except heated only warehouses and semi-heated spaces, detailed instructions for commissioning building envelope systems (see Informative Appendix E) shall be provided by the designer in plans and specifications.

Section 6.7.2.4 System Commissioning. HVAC control systems shall be tested to ensure that control elements are calibrated, adjusted, and in proper working condition. For projects larger than 50,000 ft² conditioned area, except heated only warehouses and semi-heated spaces, detailed instructions for commissioning HVAC systems (see Informative Appendix E) shall be provided by the designer in plans and specifications.

Section 9.4.3 Functional Testing. Lighting control devices and control systems shall be tested to ensure that control hardware and software are calibrated, adjusted, programmed, and in proper working condition in accordance with the construction documents and manufacturer's installation instructions.

2015 IECC

C408.2 Mechanical systems and service water-heating systems commissioning and completion requirements. Prior to the final mechanical and plumbing inspections, the registered design professional or approved agency shall provide evidence of mechanical systems commissioning and completion in accordance with the provisions of this section. Construction document notes shall clearly indicate provisions for commissioning and completion requirements in accordance with this section and are permitted to refer to specifications for further requirements. Copies of all documentation shall be given to the owner or owner's authorized agent and made available to the code official upon request in accordance with Sections C408.2.4 and C408.2.5.

Exceptions: The following systems are exempt:

- Mechanical systems and service water heater systems in buildings where the total mechanical equipment capacity is less than 480,000 Btu/h (140.7 kW) cooling capacity and 600,000 Btu/h (175.8 kW) combined service water-heating and space-heating capacity.
- Systems included in Section C403.3 that serve individual dwelling units and sleeping units.

C408.3.1 Functional testing. Prior to passing final inspection, the registered design professional shall provide evidence that the lighting control systems have been tested to ensure that control hardware and software are calibrated, adjusted, programmed and in proper working condition in accordance with the construction documents and manufacturer's instructions. Functional testing shall be in accordance with Sections C408.3.1.1 and C408.3.1.2 for the applicable control type.

COMMISSIONING STATEMENT

CRITERIA

The commissioning statement shall include, but may not be limited to, the following summary of items included in the scope of typical commissioning activities for the purpose of the applicable energy code:

Building Thermal Envelope	Electrical	Heating, Ventilation And Air Conditioning
• Walls	• Fenestration	• Air Systems Balancing
• Floors	• Insulation	• Sensor Controls
• Roofs	• Leakage	• Time-Switch Controls
• Doors	• Daylight Controls	• Functional Performance Testing
		• Controls
		• Hydronic Systems Balancing
		• Equipment
		• Economizers

STATEMENT

BUILDING ENVELOPE

As defined in the Houston Commercial Energy Conservation Codes, details have been specified for the commissioning of the Building Envelope system according to the referenced standards in the codes.

DESIGN PROFESSIONAL NAME \_\_\_\_\_

PRINT \_\_\_\_\_

SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

[SEAL]

LIGHTING SYSTEM CONTROLS FUNCTIONAL TESTING

As defined in the Houston Commercial Energy Conservation Codes, details have been specified for the commissioning of the lighting system controls according to the codes.

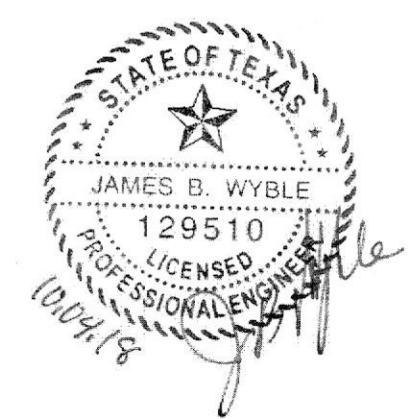
DESIGN PROFESSIONAL NAME \_\_\_\_\_

PRINT James B. Wyble P.E.

SIGNATURE *James B. Wyble*

DATE 10/4/18

[SEAL]



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JLA Corp  
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727-470-7862

OUZO BAY/ LOCH BAR  
HOUSTON  
4444 WESTHEIMER RD, HOUSTON, TX 77027  
PROJECT NO. JBW17108

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF TEXAS.  
PE. LICENSE #: 129510, EXPIRATION DATE: DECEMBER 31, 2018  
FIRM LICENSE #: F19615, EXPIRATION DATE: MARCH 31, 2019

REV	DATE	ISSUED FOR
—	05/16/2018	PROGRESS SET
—	06/11/2018	PERMIT SET
▲	08/30/2018	PERMIT COMMENTS
▲	10/04/2018	PERMIT COMMENTS

REV	DATE	ISSUED FOR
—	—	—
—	—	—
—	—	—
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OUZO BAY/ LOCH BAR  
LIGHTING  
COMPLIANCE  
  
**E.15**

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