



Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: L.J. Griffin Funeral Home
 Project Type: New Construction

Construction Site: Novi, MI
 Owner/Agent:
 Designer/Contractor: Jordan & Skala Engineers, Inc.
 17855 N. Dallas Pkwy
 Suite 320
 Dallas, TX 75287

Additional Efficiency Package

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-LOBBY (Common Space Types:Lobby - General)	1221	0.81	989
2-CHAPEL (Religious Buildings:Audience/Seating Area)	1505	1.38	2077
3-RR (Common Space Types:Restrooms)	405	0.88	356
4-OFFICE (Common Space Types:Office - Enclosed)	264	1.00	264
5-ARRANGEMENT (Common Space Types:Sales Area)	540	1.43	772
6-STORAGE (Common Space Types:Storage)	316	0.57	180
7-HALLWAYS (Common Space Types:Corridor/Transition <8 ft wide)	940	0.59	555
8-RETORT (Common Space Types:Storage >=50 - <=1000 sq.ft.)	875	0.57	499
9-VISITATION (Common Space Types:Conference/Meeting/Multipurpose)	1940	1.11	2153
10-CATERING (Common Space Types:Food Preparation)	218	1.09	238
11-LOUNGE/RECEPTION (Common Space Types:Lounge/Breakroom)	1800	0.66	1188
Total Allowed Watts =			9271

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)
<u>1-LOBBY (Common Space Types:Lobby - General)</u>				
LED 1: F / FX / G1: LED PAR 13W:	1	34	13	442
Incandescent 1: W: Incandescent 75W:	8	3	400	1200
<u>2-CHAPEL (Religious Buildings:Audience/Seating Area)</u>				
LED 1 copy 5: F1 / F1X / G1: LED PAR 13W:	1	28	13	364
Incandescent 1 copy 2: W: Incandescent 75W:	8	3	180	540
Incandescent 9: V: Incandescent 30W:	1	1	30	30
<u>3-RR (Common Space Types:Restrooms)</u>				
LED 1 copy 6: F / FX: LED PAR 13W:	1	17	13	221
Incandescent 8: Y: Incandescent 35W:	1	4	35	140
<u>4-OFFICE (Common Space Types:Office - Enclosed)</u>				

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
LED 1 copy 5: F / FX: LED PAR 13W:	1	9	13	117
5-ARRANGEMENT (Common Space Types:Sales Area)				
LED 1 copy 1: F / FX: LED PAR 13W:	1	10	13	130
Incandescent 1 copy 1: W: Incandescent 75W:	8	2	180	360
6-STORAGE (Common Space Types:Storage)				
LED 1 copy 7: F / FX: LED PAR 13W:	1	1	13	13
LED 10: L / LX: LED Linear 33W:	1	5	35	175
7-HALLWAYS (Common Space Types:Corridor/Transition <8 ft wide)				
LED 1 copy 2: F / FX: LED PAR 13W:	1	16	13	208
8-RETORT (Common Space Types:Storage >=50 - <=1000 sq.ft.)				
LED 10 copy 2: L / LX: LED Linear 33W:	1	2	35	70
LED 11 copy 1: C2 / C3 / C4: LED Undercabinet Unit 24W:	1	2	22	44
LED 15: J4/J4X: LED Linear 33W:	1	12	32	384
9-VISITATION (Common Space Types:Conference/Meeting/Multipurpose)				
LED 1 copy 3: F / FX / D / E: LED PAR 13W:	1	57	13	741
Incandescent 1 copy 3: W: Incandescent 75W:	8	4	180	720
10-CATERING (Common Space Types:Food Preparation)				
LED 11: C2 / C3 / C4: LED Undercabinet Unit 24W:	1	4	22	88
LED 10 copy 1: L / LX: LED Linear 33W:	1	4	35	140
11-LOUNGE/RECEPTION (Common Space Types:Lounge/Breakroom)				
LED 1 copy 4: F / FX: LED PAR 13W:	1	43	13	559
Incandescent 1 copy 4: W: Incandescent 75W:	8	3	180	540
Incandescent 6 copy 1: V: Incandescent 45W:	1	4	30	120
Total Proposed Watts =				7346

Interior Lighting PASSES: Design 21% 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 4.0.6.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jenash Amatya - Electrical Designer
Name - Title


Signature

07/14/2017
Date



Inspection Checklist

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15] ¹	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 [EL18] ¹	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1, C405.2.2.3 [EL23] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2.1 [EL22] ²	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 [EL16] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3.1, C405.2.3.2 [EL20] ¹	Primary sidelighted areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3.1, C405.2.3.3 [EL21] ¹	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL8] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<i>See the Interior Lighting fixture schedule for values.</i>
C408.2.5.1 [FI16] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

