

INTERIOR LIGHTING

DESIGN GUIDELINES

1. Summary:
 - a. This section provides guidelines and standards for Interior Lighting.
2. General
 - a. Use 277 volt where available in building.
 - b. MC cable is acceptable for “whips” from junction boxes.
 - c. Fixtures shall be hard wired (no “plug-in” type, i.e. Reloc, Holoflex, or other modular wiring system).
 - d. Fixtures shall not be wired using “pinch connectors” or “butt splices”.
 - e. Lay-in fixtures shall have 4-point support independent of grid. Other fixtures shall be supported per applicable codes and seismic requirements.
 - f. Fixtures shall be static troffers and shall not be utilized for air-handling purposes.
 - g. Refer to Lighting Controls Design Standards for typical control methods.
 - h. All fixtures shall use the **Ideal PowerPlug** or equal luminaire disconnect for connection between the A.C. power and the LED driver(s)/ballast for ease of removing power to the luminaire.
3. LED Fixtures
 - a. The use of LED fixtures shall be approved by the owner. A mockup or sample of individual fixtures shall be demonstrated to the owner during design and approved prior to specifying for all applications.
 - b. Color temperature for LED fixtures shall be 3500K unless otherwise approved by owner.
 - c. Attic Stock of LED drivers and light bars shall be provided for each type of fixture as follows:
 - 5% for projects with > 30 fixtures
 - 10% for projects with ≤ 30 fixtures.
 - d. Verify project specific foot-candle requirements with owner.
4. All areas except Labs: (See use of LED fixtures above)
 - a. Use 2’x4’ prismatic troffer.
 - b. Use 2’x2’ prismatic troffer.
 - c. Use indirect or combination direct/indirect recessed fixtures when directed by WUSM OFMD (If plenum space is a problem, this item to be reviewed with WUSM OFMD).
 - d. Avoid deep “high-hat” fixtures.

- e. Provide LED down lights in conference rooms.
5. Labs: (See use of LED fixtures above)
 - a. Use 1'x4' lay-in direct or combination direct/indirect recessed pendant mounted fixtures or as directed by WUSM OFMD.
 - b. Switch alternating lights in each row with respect to 1'x4' row mounted recessed or pendant mounted direct/indirect fixtures.
 - c. Verify project specific foot-candle requirements with owner at work surface.
6. Exit Fixtures:
 - a. Exit Fixtures shall be LED.
 - b. Exit fixtures are to be fed from emergency panel circuit where available.
7. Auxiliary Lights: (See use of LED fixtures above)
 - a. Night light fixtures are to be fed from the emergency panel circuit where available.
 - b. No battery ballasts and no unit equipment allowed unless existing building is not equipped with an Emergency Generator and approved by WUSM.
8. Related Sections
 - a. Building Wire and Cable
 - b. Conduits, Fitting and Boxes
 - c. Lighting Controls

EQUIPMENT and PRODUCT REQUIREMENTS

1. Lighting Fixtures
 - a. Approved Manufacturers:
 - Exit lights: Lithonia Model # LQMSW3R120/277 or universal LED equal.

END OF SECTION

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