

WLM2 Series Installation Guide

The WLM2 series is an IP67 rated modular low profile marker lighting fixture with onboard driver which can be used in a variety of indoor & outdoor applications including step & pathway lighting. This guide includes important information on how to safely & effectively install your new WLM2 fixtures.

Items you will need to complete the installation (*=items not included in this box)

This installation guide

WLM2 modules

*2pcs #4 screws

*Class 2 UL1310 10-15V AC/DC power supply (wattage rating must be sufficient to accommodate fixture load).

*Screwdriver

* Drill with 1/4" / 6mm bit

* router with 1.65"/42mm diameter bit (if using flush or eyelid covers mounted without niche)

* Optional, WLM2JB mounting niche (required if mounting directly into earth, cement or concrete)

Failure to follow these installation instructions will void any warranty.

WARNING: Risk of electric shock. Ensure that main power supply is off before installing or wiring WLM2 modules & the power supply

WARNING: WLM2 modules and associated power supplies must be installed by a qualified electrician or technician in accordance with NEC and relevant local codes.

WARNING: Do not attempt to install or use the WLM2 modules, cables or power supply until you have read and understand these instructions.

CAUTION: The WLM2 modules have no serviceable parts. Do not attempt to open them.

CAUTION: Do not use sharp tools near or on the lens or cables

CAUTION: Do not hot swap. Ensure that power supply is disconnected or turned off before connecting or disconnecting WLM2 modules.

CAUTION: Use WLM2 modules only with a 10-15V AC/DC output Class2, UL1310 power supply.

NOTE: The instructions and precautions set forth within this guide are not necessarily all inclusive, all conceivable, or relevant to all applications as manufacturer cannot anticipate all conceivable or unique situations.

NOTE: It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate WLM2 in such a manner as to comply with all state & local laws, ordinances, regulations, and the ANSI safety code.

Planning the installation

The WLM2 installation requires planning to ensure timely successful installation with minimal complications & down time.

Suggestions

Consult an electrical inspector to review all wiring plans

Refer to local & state codes for installation compliance

Create a layout plan drawing, per a lighting designer's or architect's recommendation

Consult factory as needed

Installation Considerations

Location of the power supply in relation to the first WLM2 module. WLM2 modules come with 20"/500mm cables. If power supply is further than this additional wiring will be required. Always run wire in accordance with all state, local & NEC codes.

Selection of mounting hardware: The mounting screws to be used are dictated by the mounting surface. Ensure that the hardware selected is appropriate.

Parallel wiring: WLM2 modules are not designed to be run in series. If more than 1 unit is connected to a single power supply, ensure WLM2 modules are wired in parallel. See Figure #1.

In grade mounting: If mounting WLM2 modules directly into cement, concrete or earth, the WLM2JB mounting niches are required.

Steps to a successful installation

Select & install the power supply. WLM2 modules consume approximately 1.5 watts of power per module, ensure that the power supply has a sufficiently high wattage rating to operate all of the fixtures in a run. Example, 10 WLM2 modules x 1.5watts each = 15W min power supply rating to run 10 WLM2 modules. Use ONLY 10-15V output, class2 power supplies.

Ensure that mains voltage is NOT connected before connecting the power supply to input voltage wiring.

Install the power supply in accordance with the manufacturers stated instructions as well as all state & local codes & the NEC.

Connect the output of the power supply to the WLM2 module, see Figure #1 (note that you may need to complete other steps as listed below before making connections). Positive (+) output to the Red wire, and negative (-) output to the Black wire. If multiple WLM2 modules are powered off the same power supply all WLM2 modules must be wired in parallel, do not wire in series. All connections should be made in such a manner as to comply with all local, state and ANSI codes.

To install the WLM2 modules with a ‘dome’ cover (without the mounting niche.)

Step A1: Cut off the round label on the box. See figure #2. Punch out the 3 holes on the label labeled as “Cable” & “Fixing” (x2).

Step A2: Using that label as a template, mark the positions where you want the WLM2 module to be located. See figure #3. Mark the spot for power to be run through the hole marked ‘cable’ and where the mounting screws are to be located through the 2 holes marked ‘fixing’. Drill a hole at least 1/4”/6mm in diameter through the hole for the cable to run the lead wires through. See Figure #4. Connect WLM2 wires to power supply as indicated above.

Step A3: Using two #4 screws, adhere the WLM2 module to the surface of the desired location. See figure #5. Press the WLM2DCOVER cover onto the module. See figure #6 (note “WLM2ECOVER” cover shown in figure #6).

To install the WLM2 modules with a ‘Flush or Eyelid’ cover (without the mounting niche.)

Step B1: Using a 1.65”/42mm diameter router bit, drill a hole 0.33”/8.4mm deep in the location where the WLM2 is to be mounted. (When pressed down into the hole, the top of the lens on the WLM2 module will be approximately 1.5mm above grade when the hole has reached the appropriate depth)

Step B2: Same as step A1 above

Step B3: Same as step A2 above

Step B4: Using two #4 screws, adhere the WLM2 module inside the routed out circle in the desired location. Press the WLM2FCOVER or WLM2ECOVER cover down onto the module.

To install the WLM2 modules with the optional mounting niche (any type of cover).

Step C1: Place WLMJB into desired location. The top of the box should be even with the final grade level of land or cement/concrete.

Step C2: Run power through conduit or other methods in accordance with state, local & national codes to the mounting niche. Connect the positive (+) power supply lead to the red wire on the WLM2 and the negative (-) power supply lead to the black wire on the WLM2. See figure #7.

Step C3: Adhere the WLM2 module to the mounting niche with two #4 screws. Press the WLM2DCOVER, WLM2ECOVER, WLM2FCOVER cover onto the module. See figure #8.

Figure #1

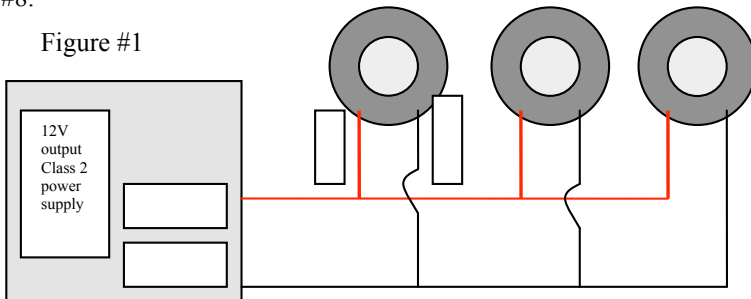


Figure #3

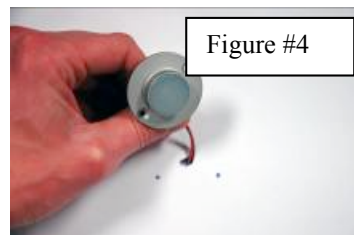


Figure #4

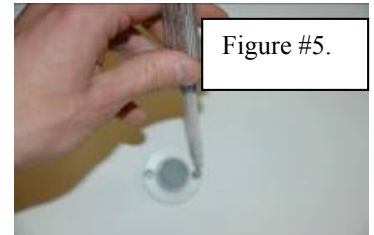


Figure #5.

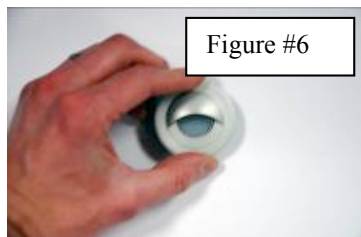


Figure #6

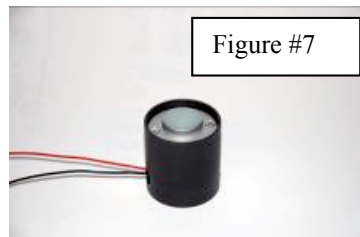


Figure #7

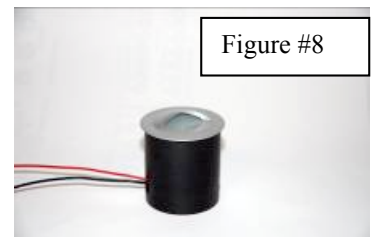


Figure #8