LUMENPOD® 16

Installation Instructions

Another Lumenrail® Component for Life Safety and Light

WARNING: TO REDUCE RISK OF ELECTRIC SHOCK, TURN OFF THE ELECTRICAL SUPPLY BEFORE INSTALLING OR SERVICING THE SYSTEM. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY AND/ OR DAMAGE TO THE COMPONENTS.

LIGHTING SAFETY INSTRUCTIONS

READ THE INSTALLATION INSTRUCTIONS IN THEIR ENTIRETY BEFORE INSTALLING. IT IS IMPORTANT TO LEAVE THESE INSTRUCTIONS WITH THE OWNER OR FACILITY MANAGER OF THE BUILDING FOR FUTURE REFERENCE.

- **Caution**: Installation must be performed by a licensed electrician and all wiring must conform to local, state and national electrical codes
- LED driver: 24VDC, Class 2, configured in a listed system of components
- Mount remote driver(s) in a NEMA rated enclosure
- Systems may be used in a wet location with a suitably rated enclosure and connections
- All electrical components must be grounded and Wagner Architectural recommends connection to a GFCI circuit per local codes and/or the NEC
- This product must be installed in a manner consistent with its intended use
- For trouble-shooting, installation questions and replacement component orders, contact Wagner at 888-243-6914

SCAN QR CODE
for technical information, downloads and instructions.

Note: *Lumenpod® 16 is a 24VDC, low-voltage luminaire. Do not connect Lumenpods® directly to line voltage (120-277-347VAC) or unregulated 24VDC low-voltage supplies.* ***Failure will result and all warranties will be void.***

RAILING SAFETY INSTRUCTIONS

WAGNER ARCHITECTURAL SYSTEMS ARE ENGINEERED TO MEET IBC, ADA AND NFPA WHEN PROPERLY INSTALLED.

- Check and confirm all local railing code requirements
- A structural analysis may be required per local codes and is the responsibility of the customer
- Verify with the railing manufacturer that intended retrofit installations will not degrade the integrity of their railing
- **Caution**: It is highly recommended that a professional railing installer be used for ANY rail system, illuminated or not
- Please contact the factory for field installations: 888-243-6914 or email us: systems@mailwagner.com

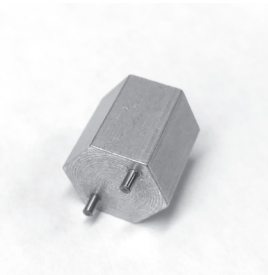
LUMENPOD 16 SUPPLIED PARTS

DC/DC mA Regulator

LULF Lumenpod

Poke-Home Junction Box

Poke-Home Thru-Wire



Lumenpod Installation Tool*

*Fits 9/16" socket

Scan QR Code
For information about
Poke-Home connectors.

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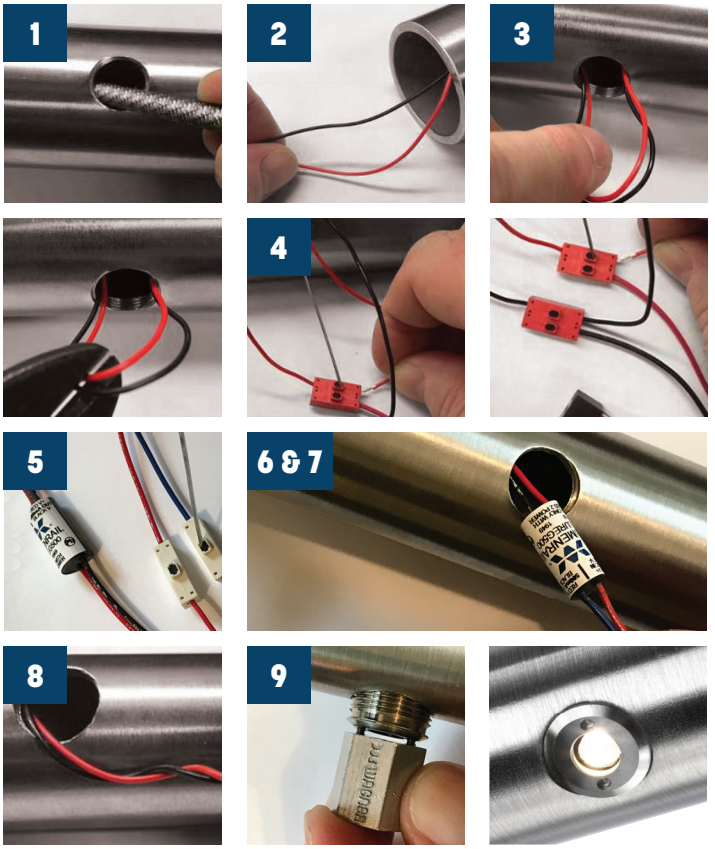
INSTALLATION

TO REDUCE RISK OF ELECTRIC SHOCK, TURN OFF THE ELECTRICAL SUPPLY BEFORE INSTALLING OR SERVICING THE LIGHT FIXTURES: For retro-fit applications and field drilling for Lumenpod installations, resealing the protective coating on railings that are not inherently corrosion resistant is required. Paint, cold galvanizing, or an equivalent material must be used to seal the bare metal surfaces prior to fixture installation.

1. If not factory supplied, insure all Pod mounting holes are de-burred inside and out. Removal of sharp edges is necessary to protect conductors that pass through the openings.
2. Install 24VDC positive (+) and negative (-) wires down the length of the hand rail. Refer to the remote distance chart for wire gauge recommendations.
3. Carefully pull a loop of the 24VDC main wires out of each Lumenpod mounting hole. Cut the wires at the center of each loop and strip insulation ends back 1/8″.
4. Install the Poke-Home Junction Box connectors (Red) to both ends of the 24VDC main wires and the LUREG input. Ensure that the polarity of wires from the regulator (+ = red, - = black) connect to correct polarity of the main 24VDC wires.
5. Install a Poke-Home Thru-Wire connector (White) to both output wires, positive (+) and negative (-) on the DC/DC regulator (LUREG350/500). Connect the corresponding polarity leads from the Pod on the other end.

6&7. Carefully feed wires, Poke-Home connectors, and DC regulator (LUREG350/500) through the mounting hole, into the railing. Push components into rail to clear mounting hole. After connectors, regulator assembly and wires are in handrail, leave unit hanging and repeat process for additional Lumenpods.

8. On large projects, after ensuring safety, periodically test installed units (after 4-6 additions) to verify connections. After system is wired complete and tested, gently wind pod counterclockwise, 5x to prevent twisted wires, then carefully feed the remaining wire into the rail.
9. Thread the Lumenpod into the hole and tighten 1/2″ way, using the provided insertion tool (fits a 9/16″ socket) or a properly sized pair of snap ring pliers. Repeat process for additional Pods.
10. After the system is tested again, apply Loctite® Threadlocker Blue 242® (or equal) to the exposed threads, to prevent loosening and then finish seating the Lumenpods with the insertion tool.



LUMENPOD® 16: QUANTITY, DISTANCE & CONDUCTOR **RAIL** SAMPLE				
Wire Gage	16 AWG	14 AWG	12 AWG	10 AWG
Distance To First Pod	20′	45′	70'	95'

Suitable values for 500mA drive current with:

42 Lumenpods on 2' spacing using our 100W standard driver
26 Lumenpods on 2' spacing using out 100W USA driver

LUMENPOD® 16: QUANTITY, DISTANCE & CONDUCTOR **POST** SAMPLE				
Wire Gage	16 AWG	14 AWG	12 AWG	10 AWG
Distance To First Pod	20′	45′	70'	95'

Suitable values for 500mA drive current with 7' intermediate conductors:

36 Lumenpods on 4' spacing using our 100W standard driver
20 Lumenpods on 4' spacing using out 100W USA driver

Actual distances will vary depending on the total load, drive current, wire gage and fixture spacing. Verify all distance calculations with overall design of system. Conductor supply and gage specification by others.

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