RAM-H-1

Installation and Operating Instructions

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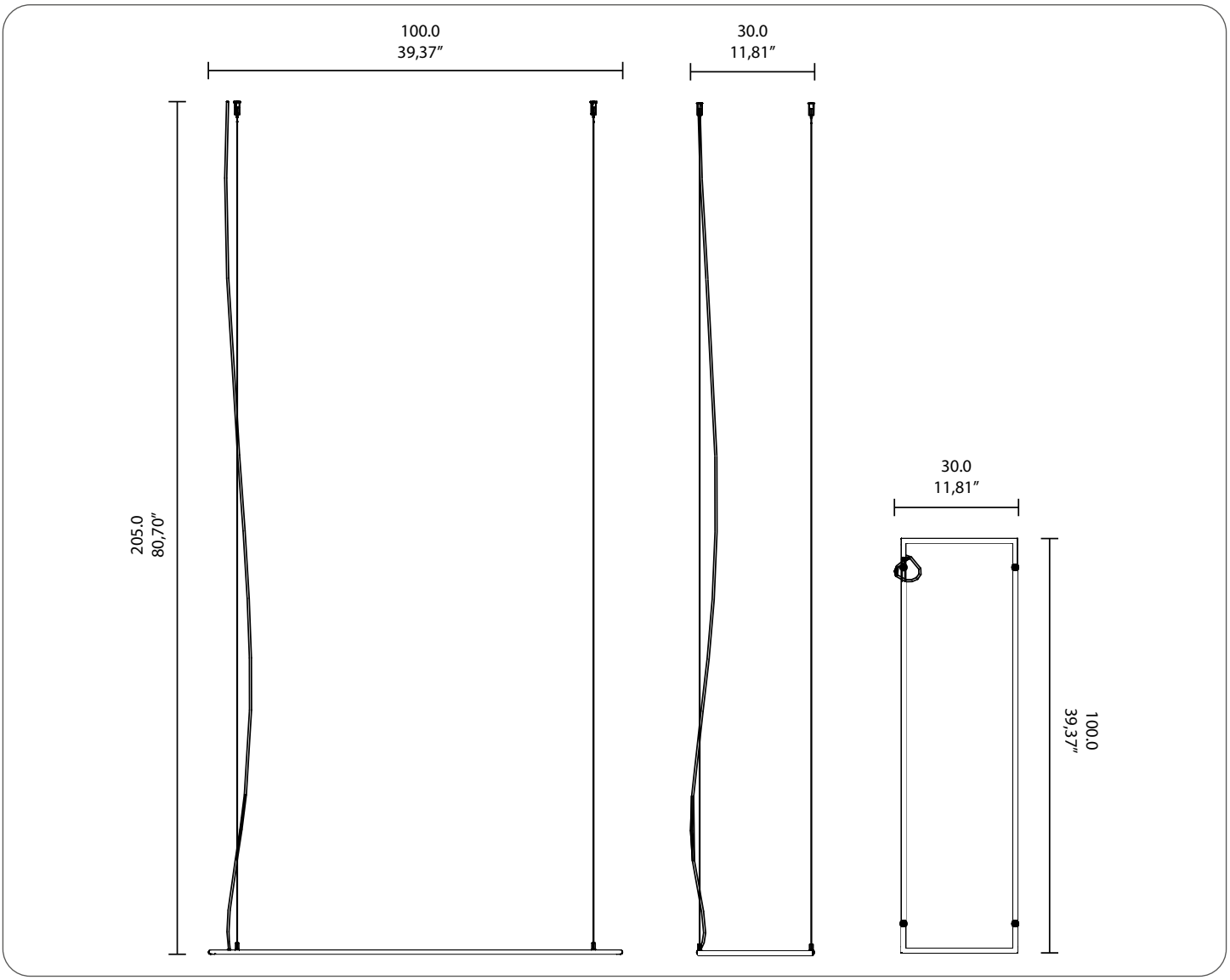
Fully assembled luminaire

Installation: suspended

CE • LVD • EMC • RoHS

24V DC

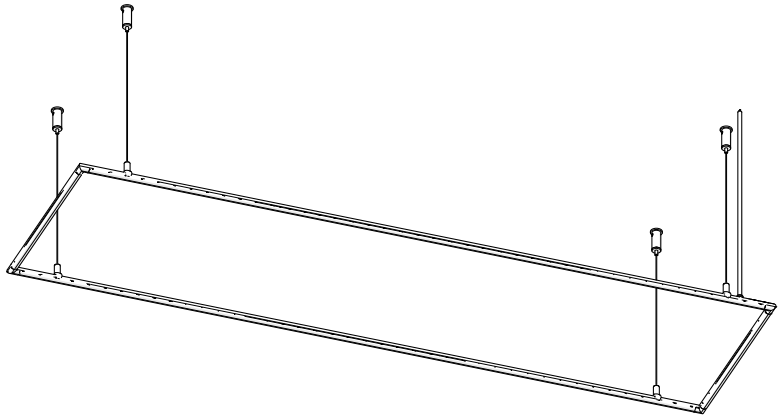
DIMENSIONS:



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RAM-H-1

is a ready-made lighting fixture intended for suspended installation.
The fixture is powered by 24 V DC from an appropriately selected power supply.
The manual describes mechanical installation, suspension adjustment, and low-voltage connection.



THE SET INCLUDES:

- RAM-H-1 fixture (ready-made)
- Suspension elements / mounting accessories (according to configuration)
- Manual

SET DOES NOT INCLUDE

- Screws and wall plugs selected for the substrate (not always included)
- Control elements (if present in the fixture version)

REQUIRED TOOLS

- drill
- spirit level,
- screwdriver

SAFETY

- Disconnect the power supply before installation, cleaning, and servicing.
- Installation and connection should be performed by qualified personnel.
- Do not modify the fixture. Use only compatible elements.
- Do not use the product if it is damaged.

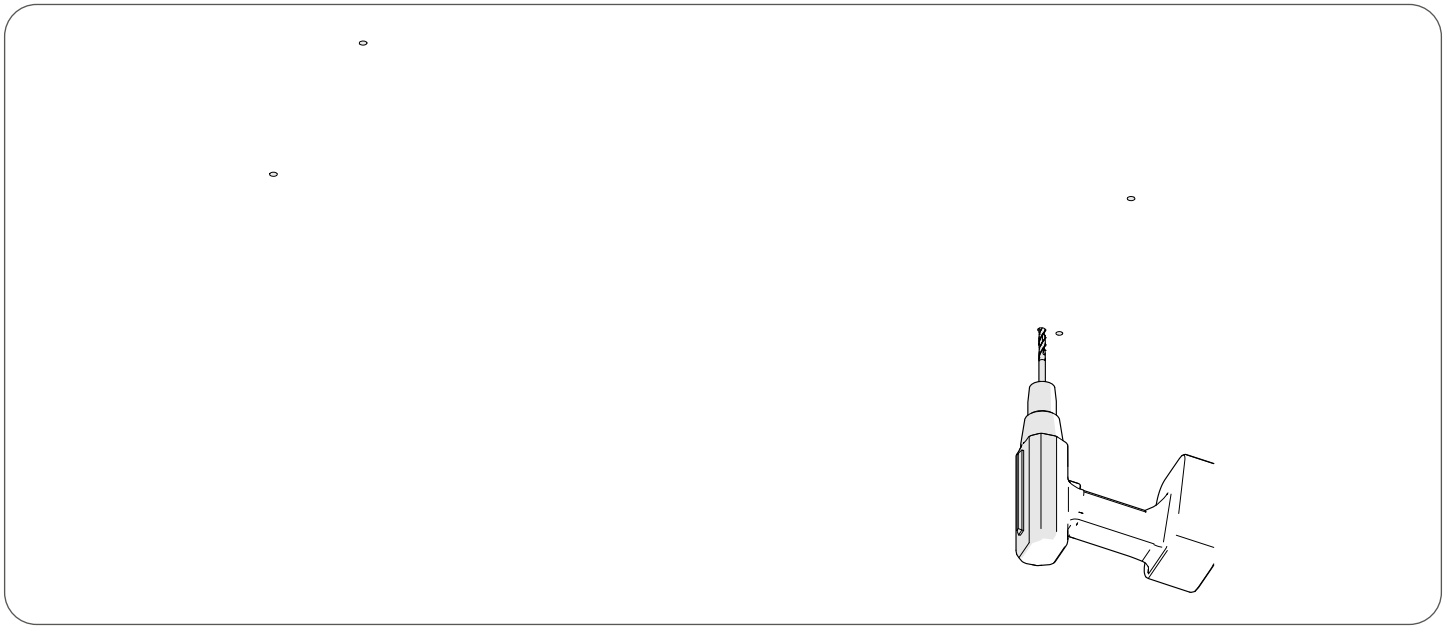
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Installation – site preparation

- Determining points, drilling

Step 1 - Determine mounting points

- Determine fixing points according to the design.
- Check the load capacity of the ceiling and select fixings for the substrate.



Step 2 - Drill holes and attach mounting elements

- Use plugs and screws suitable for: concrete / brick / plasterboard / wood.
- * additional hole intended for the junction box masking the connection to the power supply



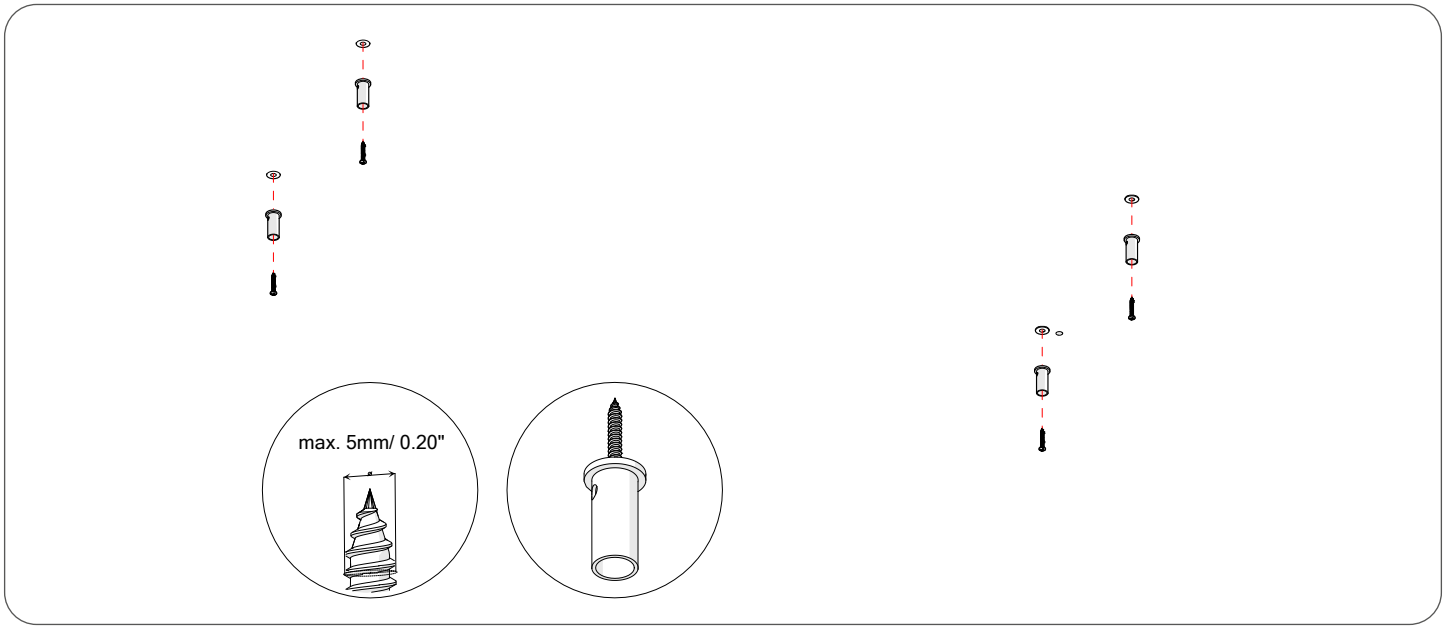
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Installation of ceiling elements

- Cable routing, suspension adjustment, fixture preparation.

Step 1 - Install the suspensions

- Screw in the suspension elements according to the drawing.
- Do not overtighten to avoid damaging the substrate.



Step 2 - Assemble the suspension and insert the cables

- Tighten the suspension elements according to the drawing.
- Pass the steel cables through the suspension mechanism.
- Make sure the cables are properly seated and secured.



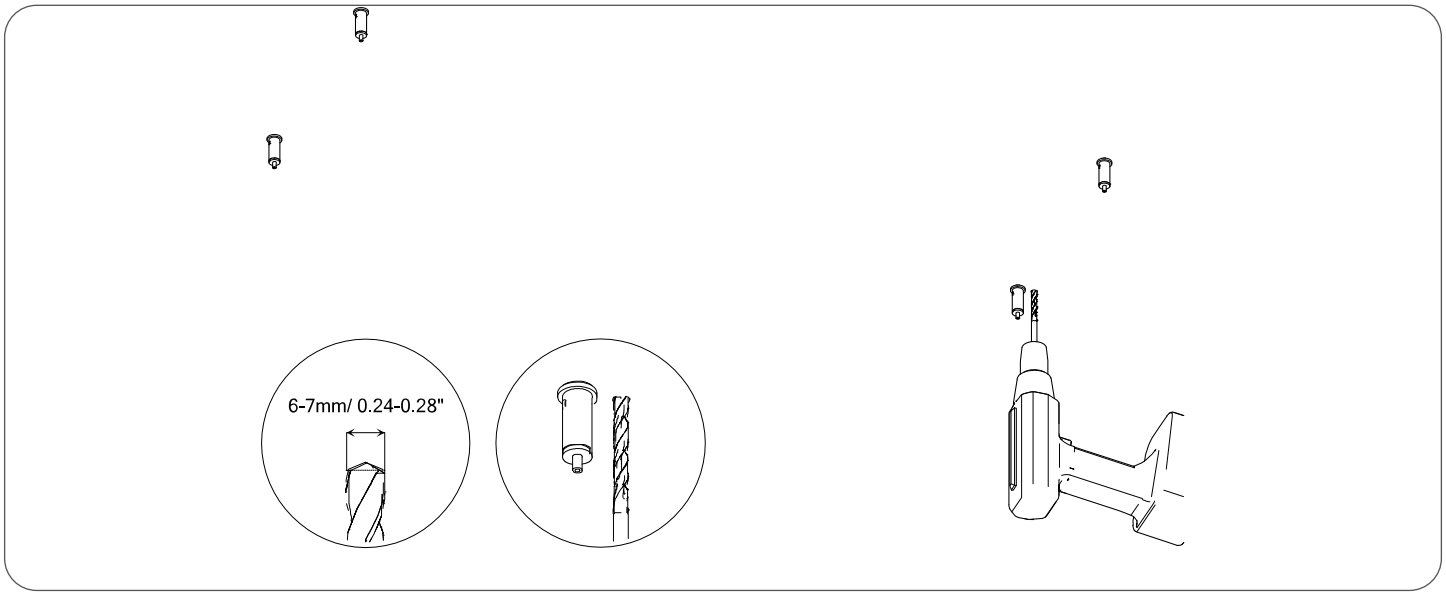
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Preparation of the power supply point and steel cables

- Installation of fasteners and securing cables

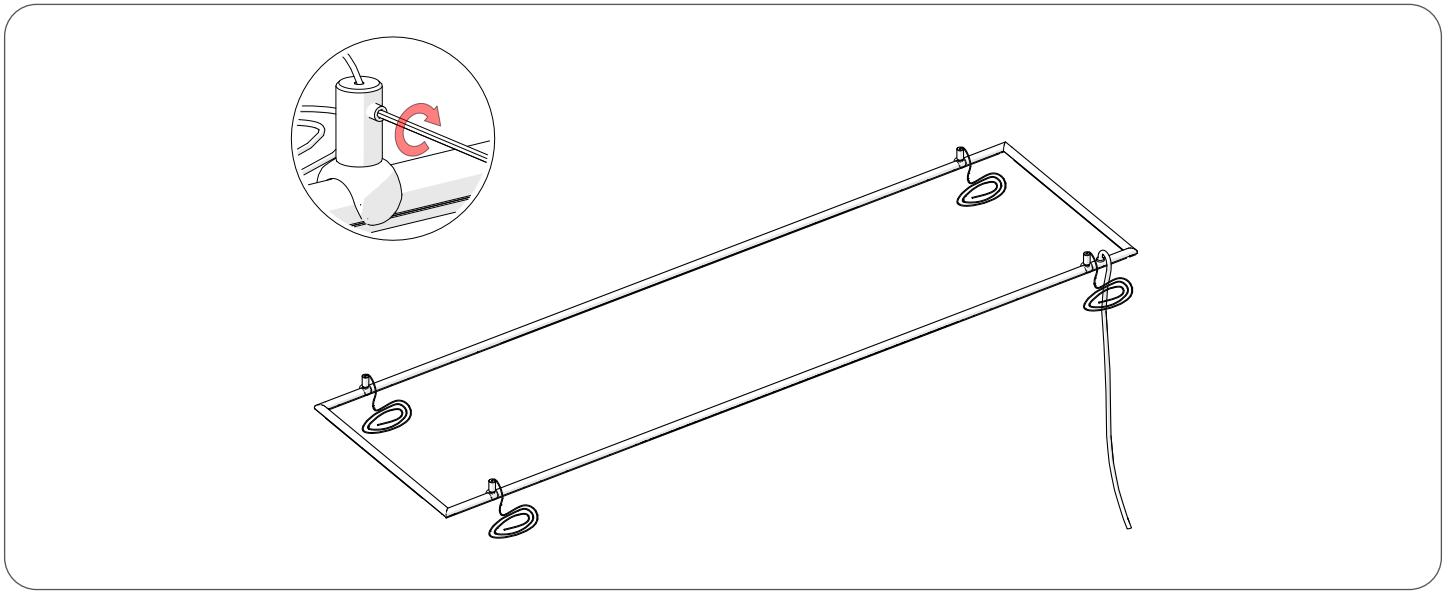
Step 1 - Prepare the place for the power cable.

- Prepare a hole for the power cable with a diameter of Ø 6-7 mm (0.24”-0.28”) at the designated location.
- Remove swarf and sharp edges to prevent damage to cable insulation.



Step 2 - Attach cables to the fasteners at the fixture

- Insert each cable into the fastener located on the fixture.
- Set the correct positioning and tighten the set screw with an Allen key.
- Repeat the action for four cables. Length of each cable: 2 m.



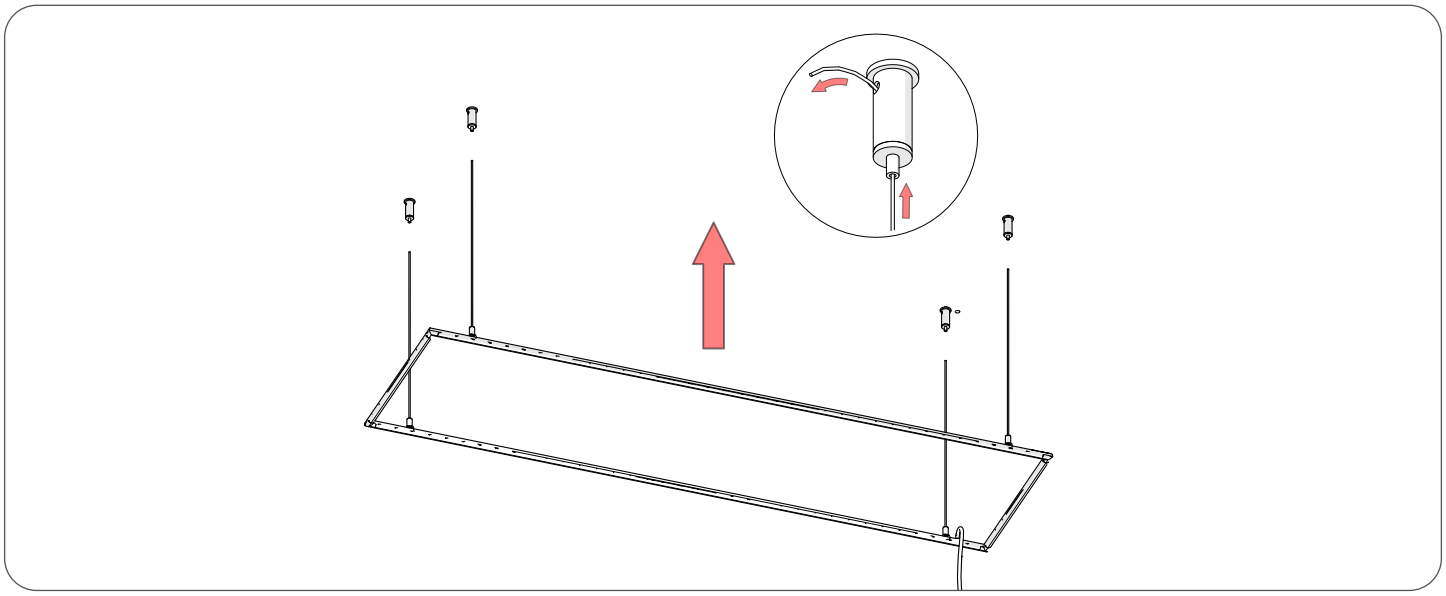
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Suspension and leveling of the fixture

- Seating cables in ceiling suspensions and preparing the 24 V cable.

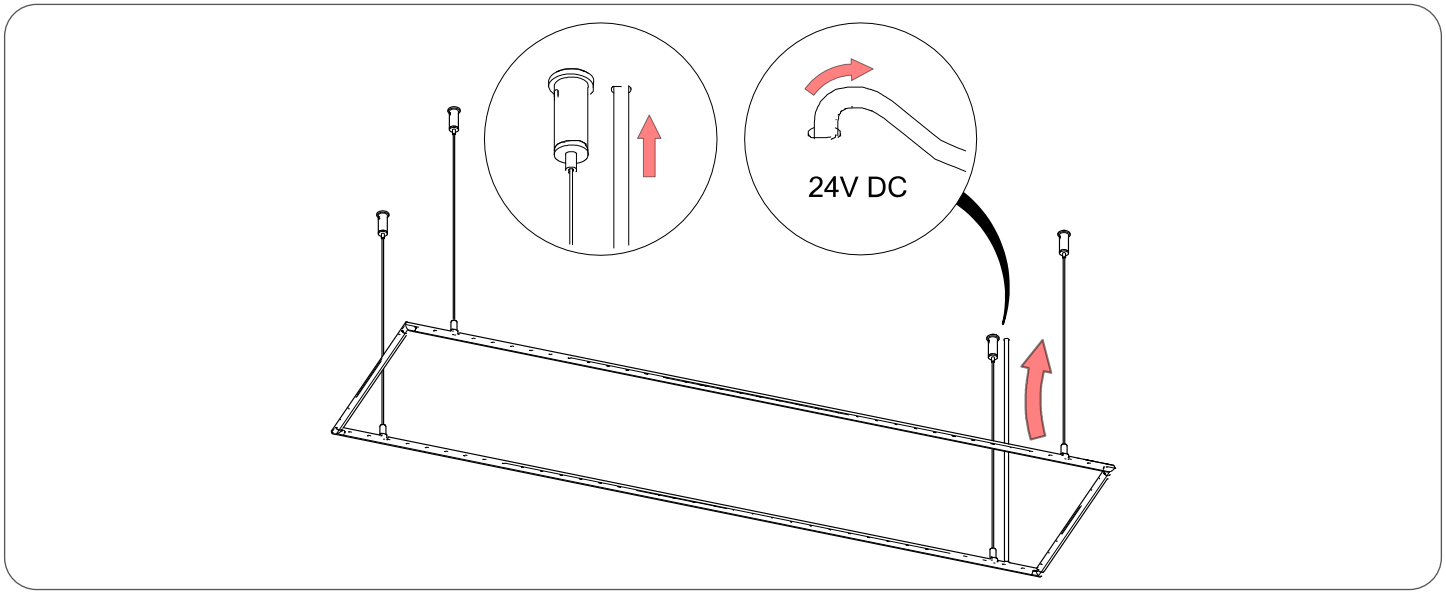
Step 1 - Hang the fixture

- Secure the fixture against falling and lift it to the target height.
- Insert the free ends of the cables into the ceiling elements.



Step 2 - Adjust height and route the cable

- By adjusting the length of the cables, level the fixture and check suspension stability.
- Route the 24 V DC cable to the power supply mounting location.
- The cable must not be strained or carry the weight of the fixture.



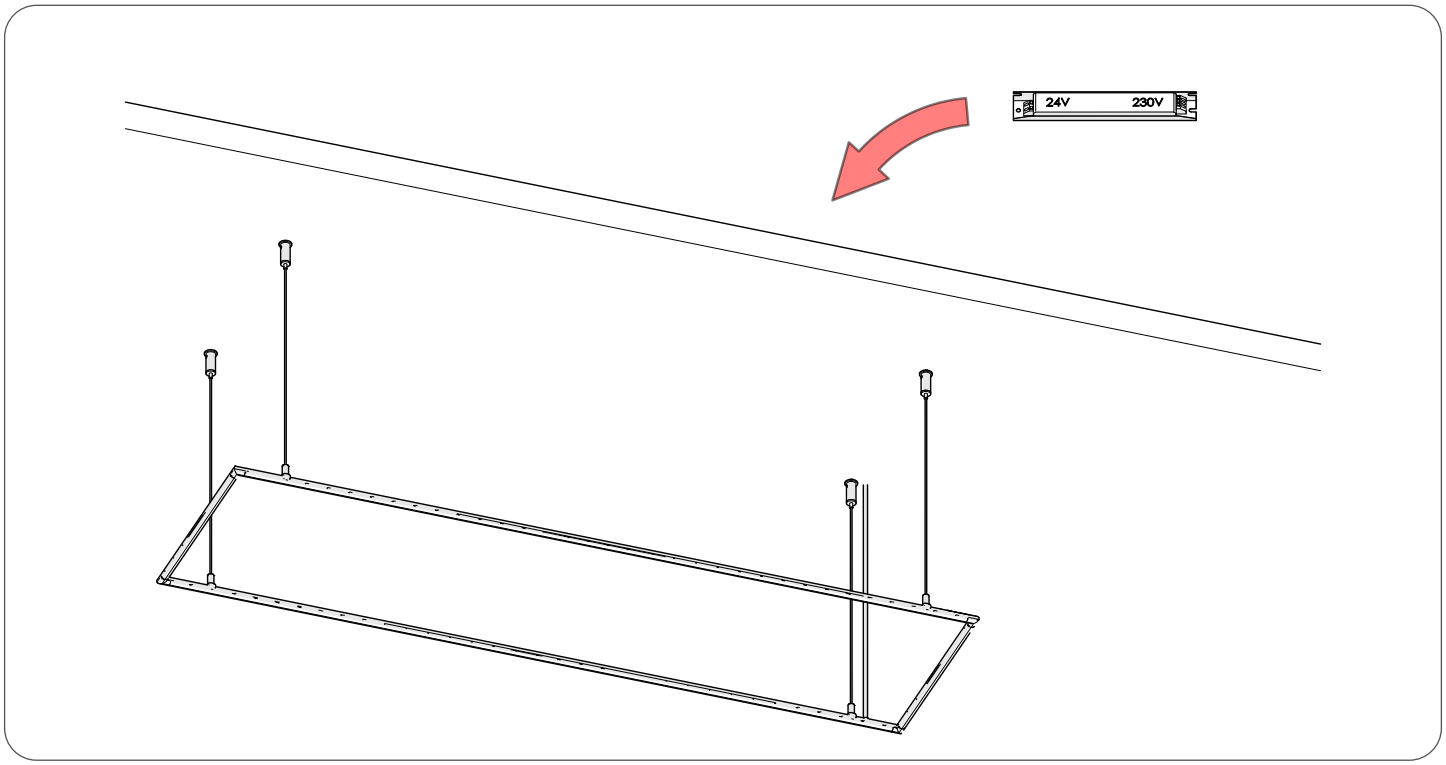
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Installation of 24 V DC power supply

- Select a 230 V AC / 24 V DC power supply suitable for the power of the fixture and its version.

Step 1 - Prepare the power supply for connection

- Place the power supply in the technical space above the ceiling or in an appropriate enclosure.
- Connect the mains side according to the power supply manufacturer's markings and applicable regulations.
- Route 24 V DC cables to the fixture connection point.
- If the power supply was prepared earlier, proceed to the next step.



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24 V DC connection and BOX-M600 installation

- The luminaire operates on 24V DC supplied by an external (remote) driver.
- Mains voltage 120V / 277V AC, 50/60Hz must be connected to the remote driver only.
- Only the 24V DC output from the remote driver is connected to the luminaire.

RECOMMENDATIONS

- Ensure the mains supply is connected to the remote driver.
- Connect only the 24V DC output to the luminaire.
- Switch off the power supply before installation or maintenance.
- Ensure all connections are secure and cables are not under tension.

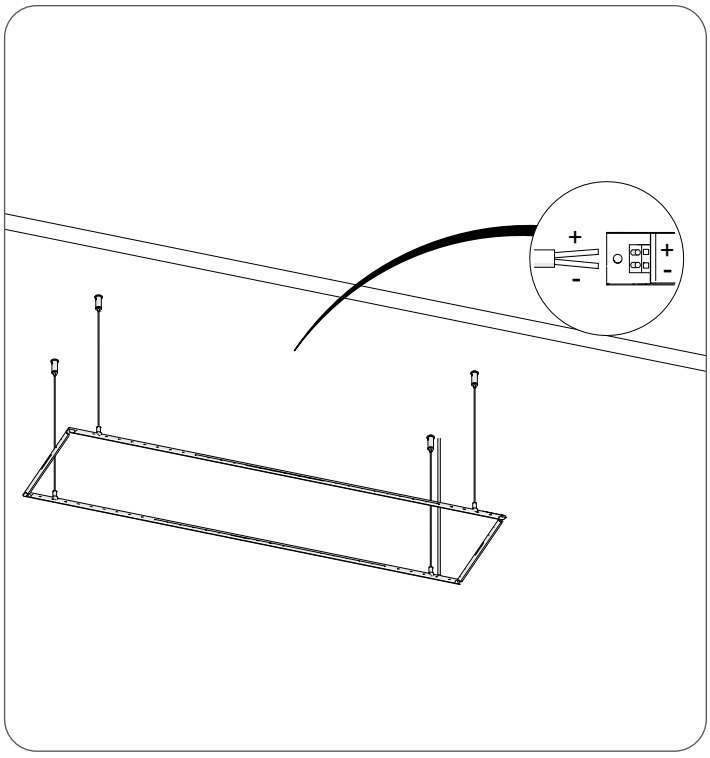
WIRING DIAGRAM

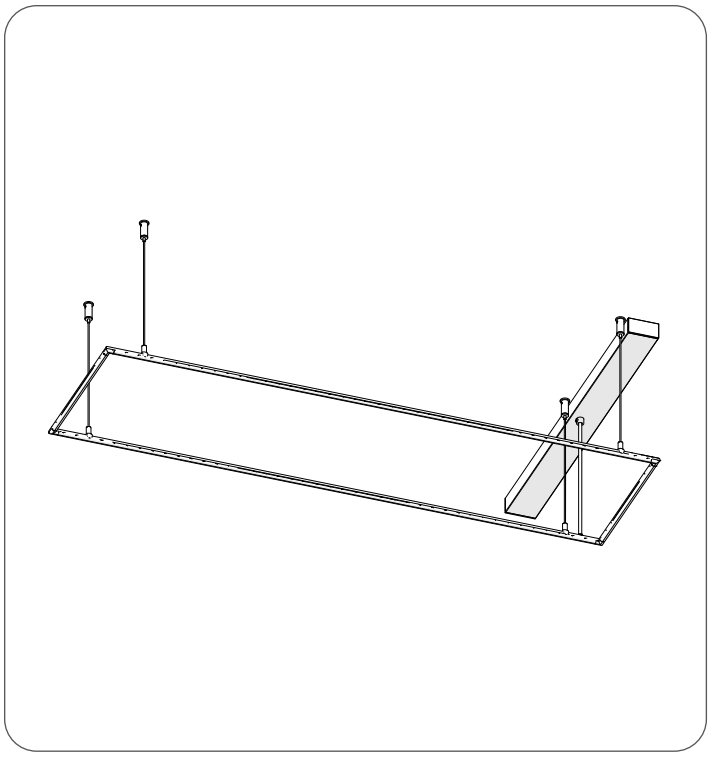
- The luminaire is supplied with a factory-prepared cable terminated with a 2-pin terminal block.
- 24V (+) – Positive (DC+)
- 0V (-) – Negative (Blue wire)
- Connect the 24V DC output from the remote driver to the corresponding terminals of the 2-pin connector.

  * Observe correct polarity. Incorrect connection may damage the luminaire.

Step 1 – Connect the Wires to the Terminal Block

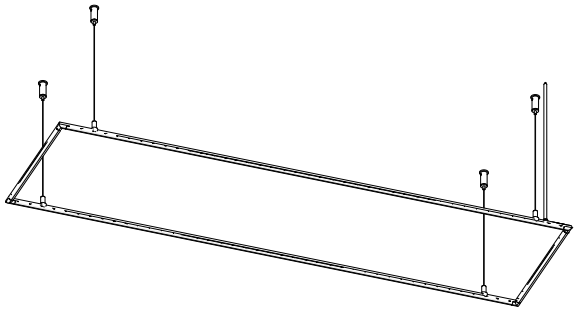
- Connect the 24V DC output from the remote driver to the supplied 2-pin terminal block.
- Match the polarity correctly: 24V (+) to positive(brown or red), 0V (-) (blue or black wire) to negative.
- Ensure all connections are secure and no conductors are exposed.
- Make sure the cable is not under tension after connection.
- Remove any excess cable slack to prevent strain on the terminals.





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Maintenance, disposal, USA compliance



CLEANING:

- Clean with a dry or slightly damp cloth.
- Do not use abrasive cleaners or aggressive chemicals.

DISPOSAL

- Do not dispose of with household waste.
- Dispose of the luminaire at an authorized electrical and electronic equipment recycling facility in accordance with local regulations.

COMPLIANCE

- This product complies with applicable EU directives and relevant standards (including PN-EN 60598-1).
- For the USA market, the product must be installed in accordance with the National Electrical Code (NEC) and local regulations.

*** LUMINAIRE DISASSEMBLY**

Disassembly must be performed in reverse order of installation.
All operations must be carried out with the power supply switched off.

WARNING!

BEFORE STARTING DISASSEMBLY, DISCONNECT THE MAINS POWER SUPPLY (120V / 277V AC) TO THE REMOTE DRIVER.
ENSURE THE LUMINAIRE IS PROPERLY SUPPORTED DURING REMOVAL TO PREVENT IT FROM FALLING.

- Switch off the power and verify that no voltage is present in the circuit.
- Disconnect the 24V DC supply from the 2-pin terminal block.
- Support the luminaire and release it from the suspension system.
- Loosen the adjustment mechanism and remove the suspension cables, if applicable.
- Remove the ceiling mounting hardware (screws, anchors), if required.

After completing disassembly, secure the installation wiring in accordance with applicable regulations.

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