SPIRA-1

Installation and operating instructions

Table of contents

About the product	2
Preparation of mounting points	3
Installation of anchors and mounts	4
Installation of ceiling components	5
Preparation of the luminaire and suspension cables	6
Suspending the luminaire	7
Adjustment of height and geometry	8
Routing the 24 V DC cable	9
Installation of the power supply, connection and final inspection	10
Maintenance, disposal, EU compliance and disassembly	11

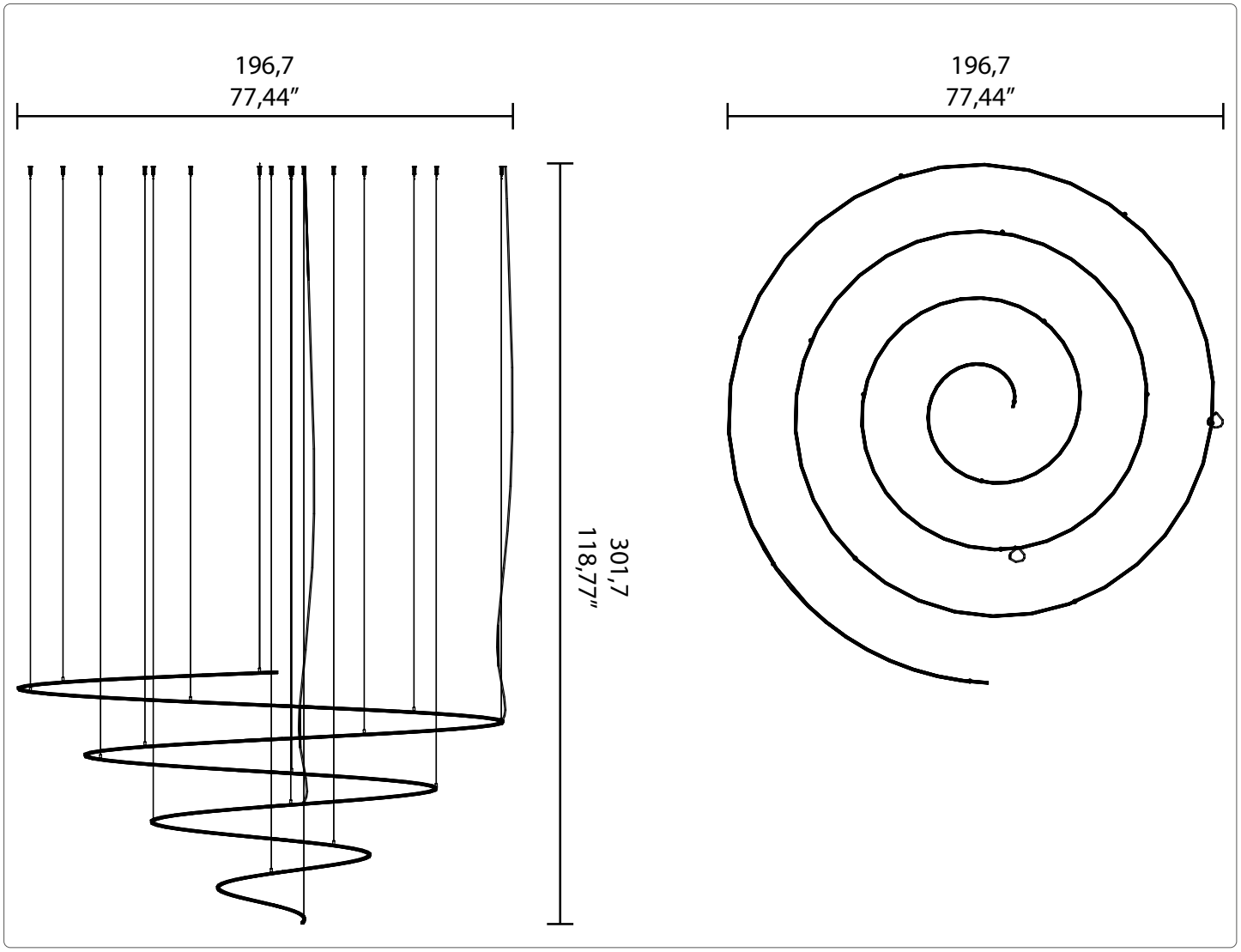
Fully assembled luminaire

Installation: suspended

CE • LVD • EMC • RoHS

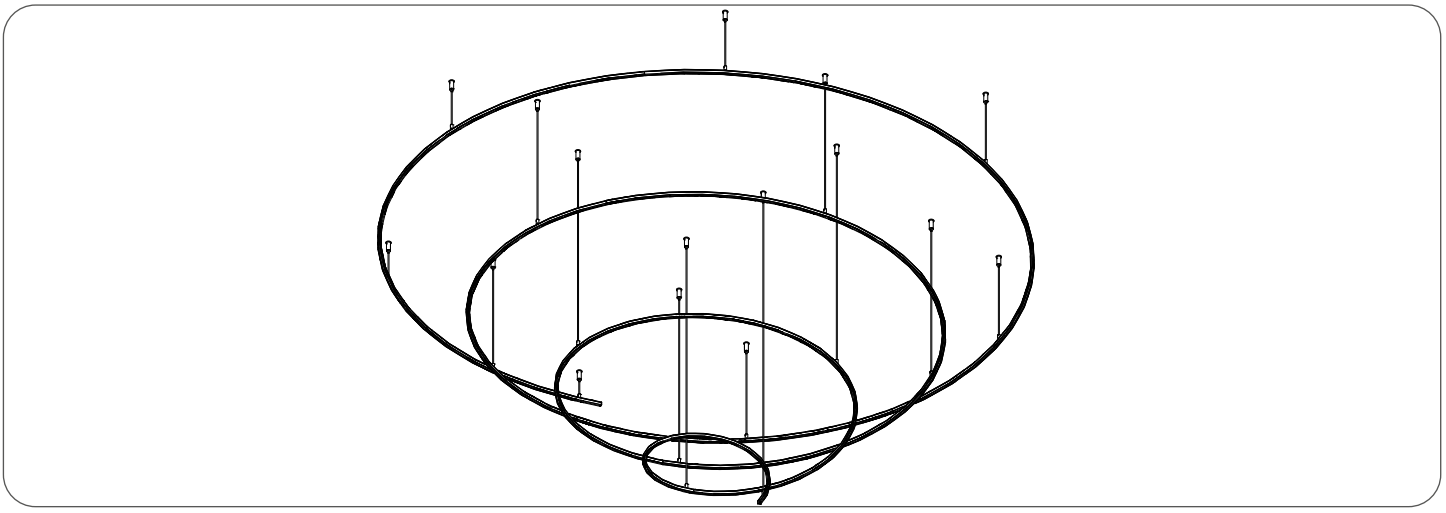
24V DC

DIMENSIONS:



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SPIRA-1 is a complete luminaire designed for suspended installation. The luminaire is powered by 24 V DC from a suitably rated power supply. These instructions describe mechanical installation, suspension adjustment and low-voltage connection.



THE KIT INCLUDES:

- SPIRA-1 luminaire (complete)
- Suspension components / mounting accessories (depending on configuration)
- Instructions

THE KIT DOES NOT INCLUDE:

- Screws and anchors suitable for the substrate (not always included)
- Control components (if included in the luminaire version)
- 24 V DC power supply, if not included in the selected configuration

REQUIRED TOOLS:

- Drill and drill bits suitable for the substrate and anchors used Spirit level Cross-line
- laser or other marking tool
- Screwdriver
- Hex key suitable for the mounting screws

SAFETY

- Disconnect the power before installation, cleaning or servicing.
- Installation and electrical connection must be carried out by suitably qualified personnel.
- Do not modify the luminaire. Use only compatible components.
- Do not use the product if it is damaged.

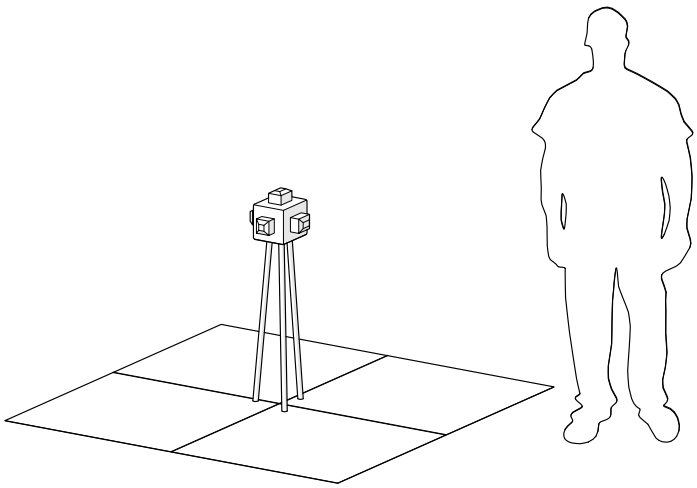
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Preparation of mounting points

- Marking all suspension points according to the technical data sheet or mounting template and drilling holes suitable for the selected anchors.

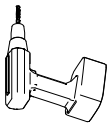
Step 1 - Mark out the mounting points

- Determine the final position and orientation of the luminaire.
- Align a cross-line laser or other marking tool with the planned installation axis.
- Mark all suspension points on the ceiling according to the technical data sheet or mounting template for the relevant version.
- Check the symmetry, alignment and relative positions of the points.



Step 2 - Drill the mounting holes

- Before drilling, make sure there are no cables or other concealed services at the marked locations.
- Drill a hole at each marked point using a drill bit suitable for the anchor and ceiling material.
- Remove dust from the holes and check that their axes are perpendicular to the surface.



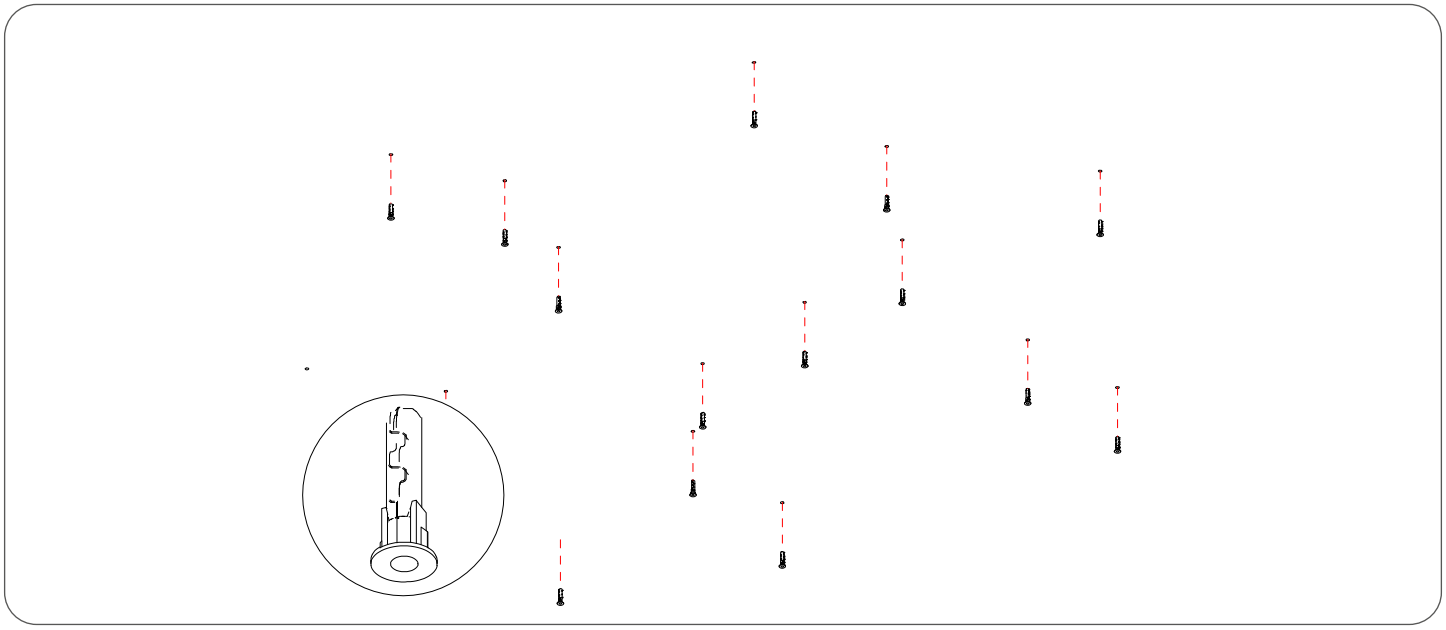
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Installation of anchors and mounts

- Inserting the anchors and installing the ceiling mounts at all prepared points.

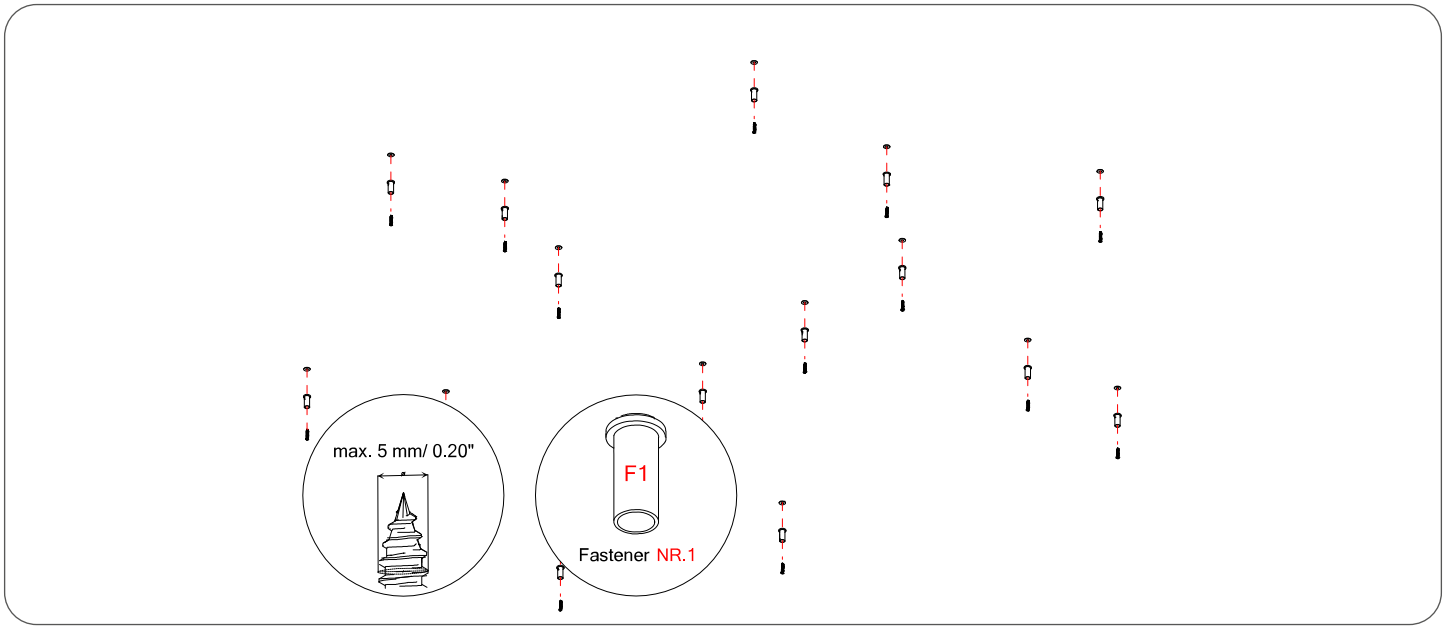
Step 3 - Insert the mounting anchors

- Select anchors suitable for the ceiling material, thickness and load-bearing capacity, as well as the load imposed by the luminaire configuration.
- Insert the anchors perpendicular to the surface and seat them securely in the prepared holes.
- Do not use damaged, deformed or loose anchors.



Step 4 - Install the ceiling mounts

- Each suspension point has a designated position marked on the template.
- As shown in the illustration, the screw diameter must not exceed 5 mm (0.20”).
- Tighten the mount until its flange is fully seated, without damaging the substrate or anchor.
- Check that all mounting bodies are vertical and secure.



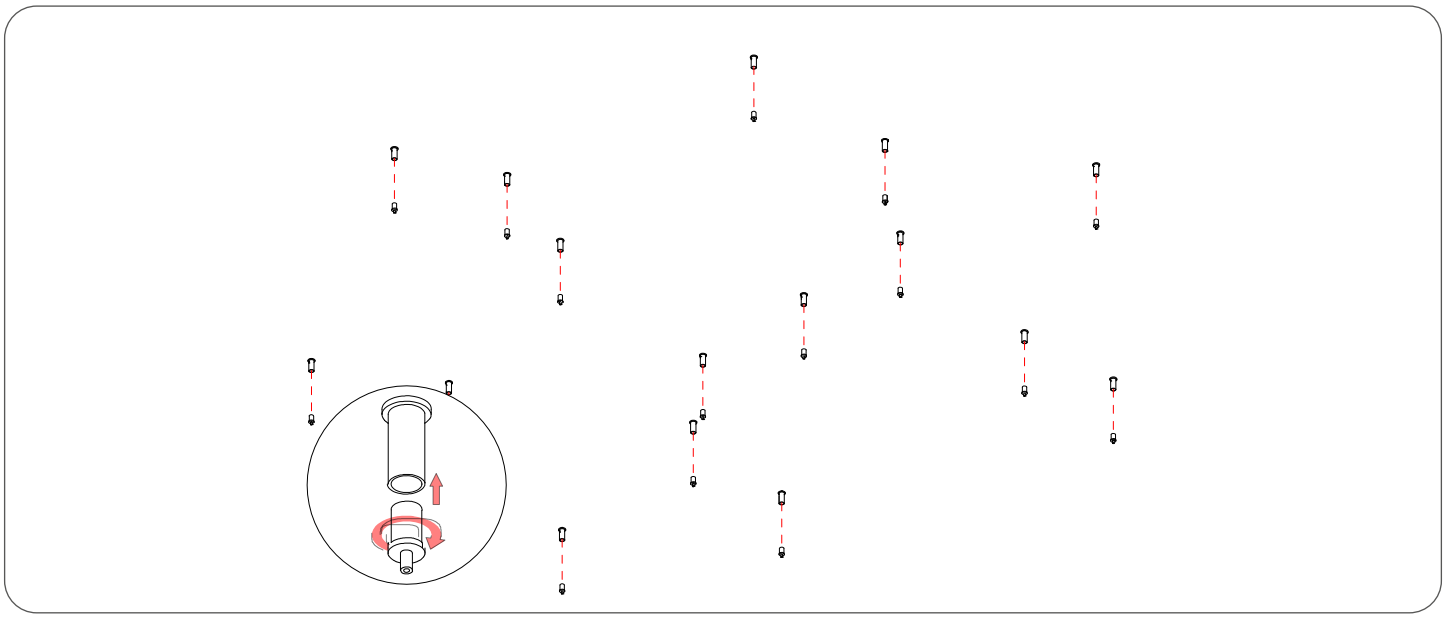
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Installation of ceiling components

- Assembling the ceiling mounts and preparing the opening for the 24 V DC supply cable.

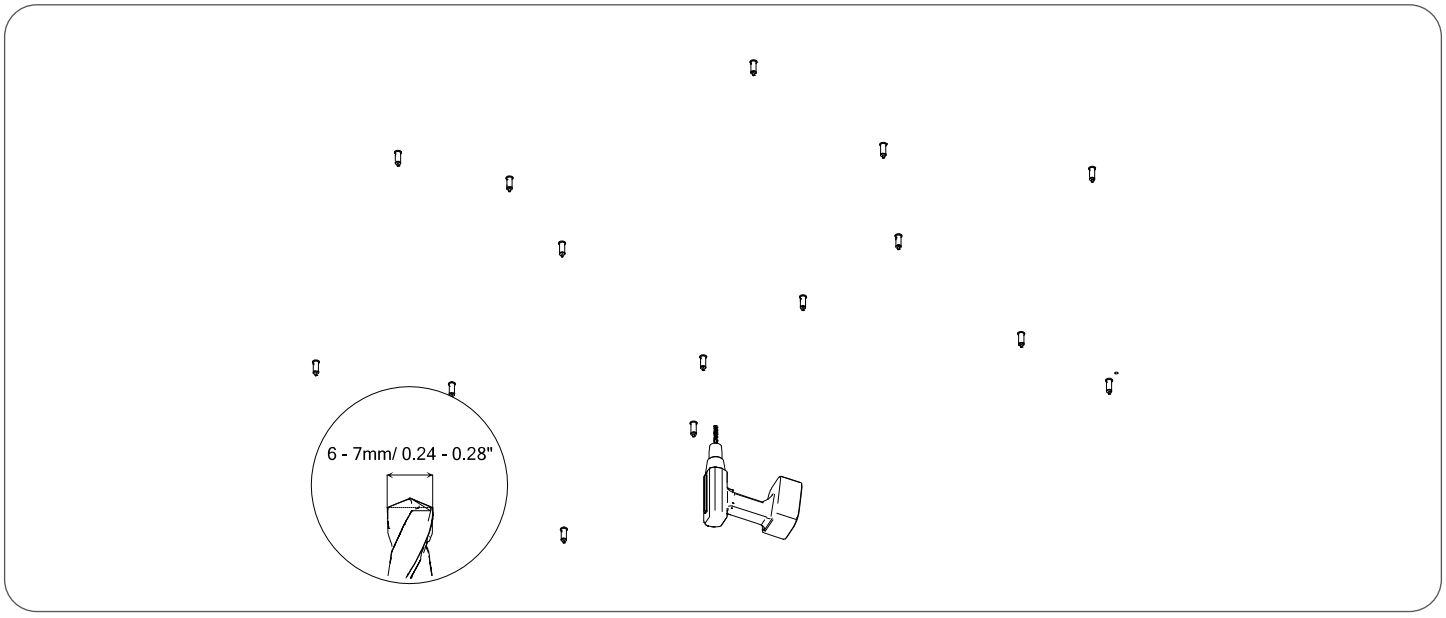
Step 1 - Install the lower parts of the mounting brackets.

- Insert the lower adjustment component into the F1 housing and tighten it by rotating as shown in the illustration.
- Repeat this procedure at all suspension points.
- After installation, check that all components are evenly tightened, do not rotate freely, and have no play.



Step 2 - Drill a hole for the power cable

- Select a cable entry point near the corresponding cable outlet on the luminaire.
- Make sure there are no electrical cables or other installations at the drilling location.
- Drill a hole with a diameter of 6–7 mm (0.24–0.28”).
- Remove sharp edges and install a suitable grommet or protective sleeve to prevent damage to the cable insulation.



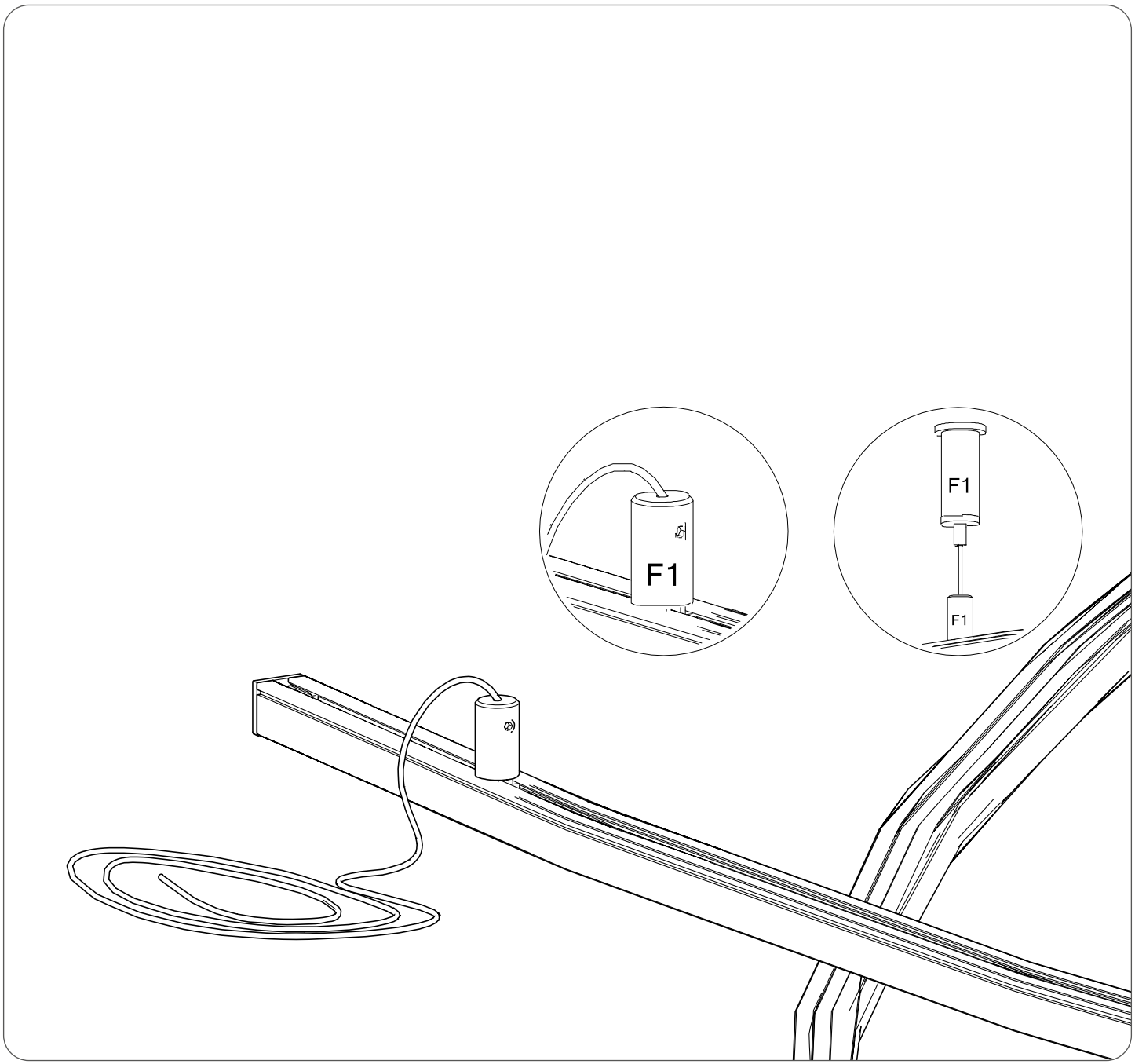
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Preparation of the luminaire and suspension cables

- Uncoiling the steel suspension cables and checking the lower mounts installed on the luminaire profiles.

Step 1 - Prepare all luminaire suspension points

- Place the luminaire on a clean, soft and stable surface to protect its profiles and covers from scratches.
- Uncoil the steel cables one by one at all lower mounts. Prevent loops, twisting and kinks.
- Check that each lower mount is properly seated on the profile and that its side screw is tightened.
- Arrange the free cable ends so that they can easily be inserted into the corresponding ceiling mounts when lifting the luminaire. Do not lift the luminaire by the 24 V DC cable or by a single suspension cable.
- Each suspension point on the luminaire must match the numbered suspension point on the ceiling.



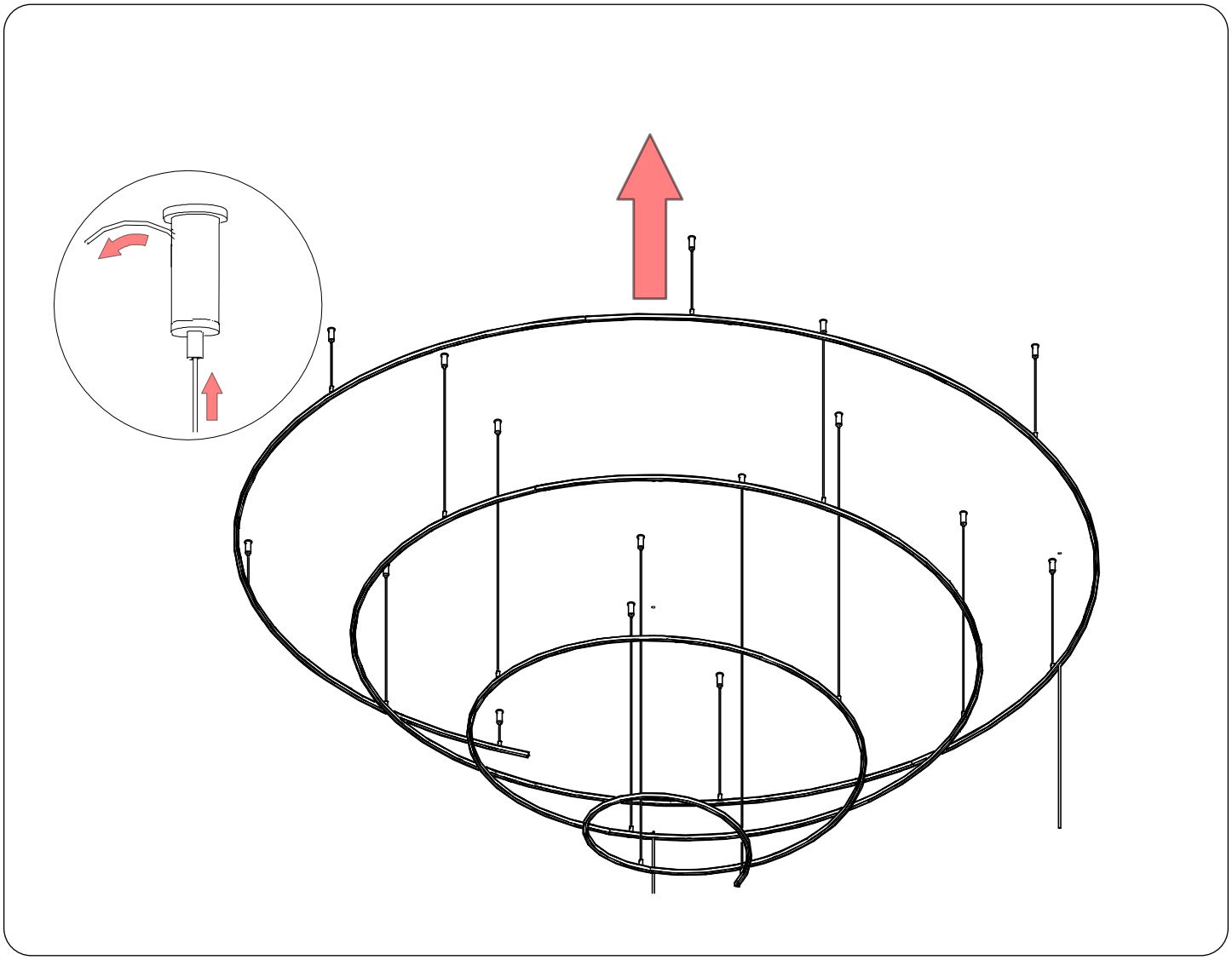
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Suspending the luminaire

- Lifting the luminaire, inserting the suspension cables into the ceiling mounts and initially securing the entire structure.

Step 1 - Lift the luminaire and secure the suspension cables

- Provide stable support for the luminaire and use enough installers for its size and weight.
- Raise the luminaire evenly without bending the profiles.
- Insert the free end of each suspension cable from below into its corresponding ceiling mount.
- Set the preliminary cable length, then lock it according to the mount design.
- Repeat at all suspension points.
- Remove the luminaire support only after confirming that all cables are securely locked.



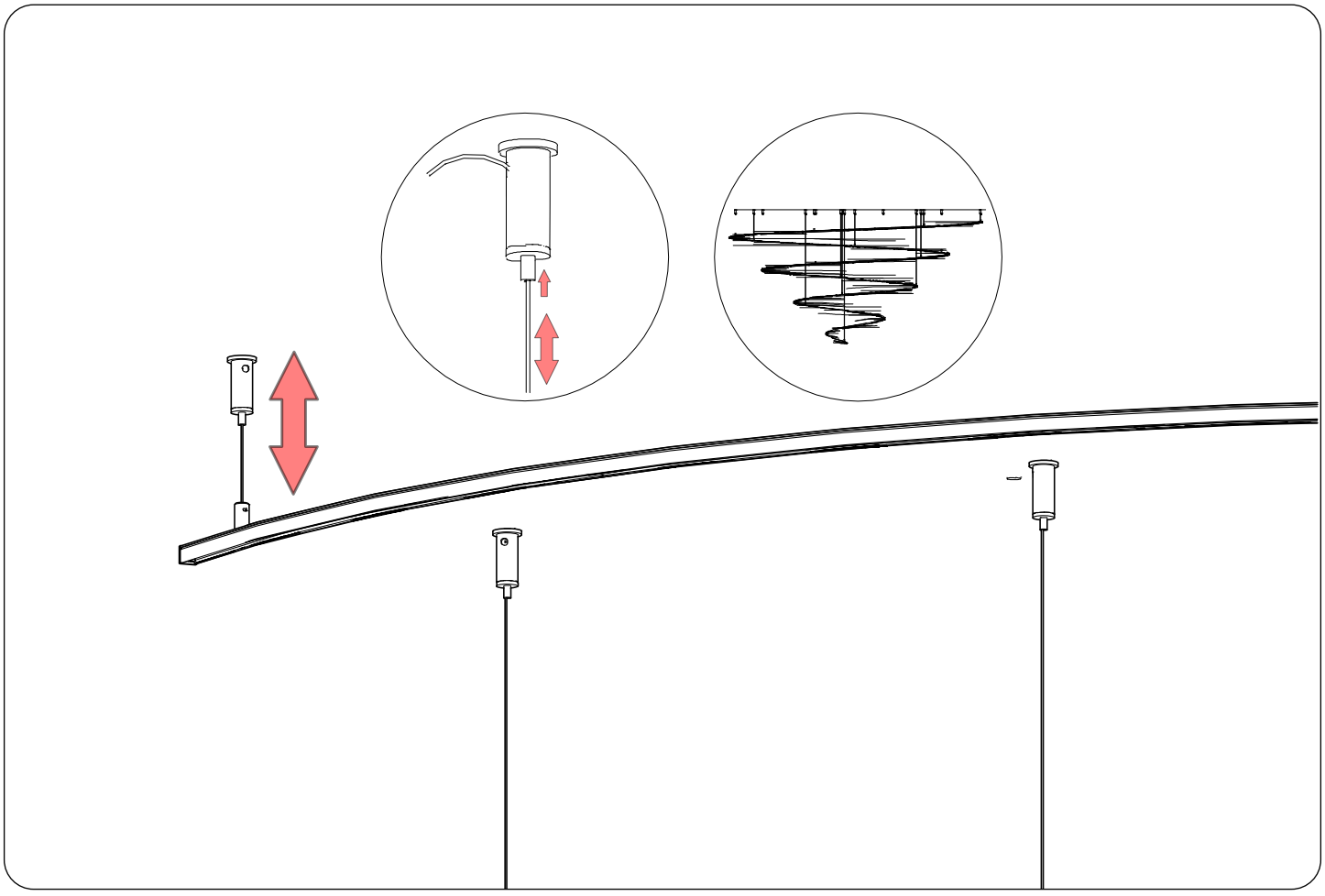
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Adjustment of height and geometry

- Setting the final height of individual luminaire sections and recreating the three-dimensional spiral shape.

Step 1 - Adjust the suspension cable lengths

- Support the section of the luminaire being adjusted to relieve the load on the mount.
- To change the length, press the adjuster release sleeve and slide the cable up or down.
- After releasing the sleeve, apply a slight load to the cable and check that it has locked again.
- Adjust the suspension points gradually, maintaining smooth curves in the profiles and the shape shown in the illustration.
- Inspect the luminaire from several directions. Correct the heights so that the spiral runs evenly, without twisting or local kinks.
- Leave excess cable available for later adjustment and servicing; do not cut it before the final geometry check.



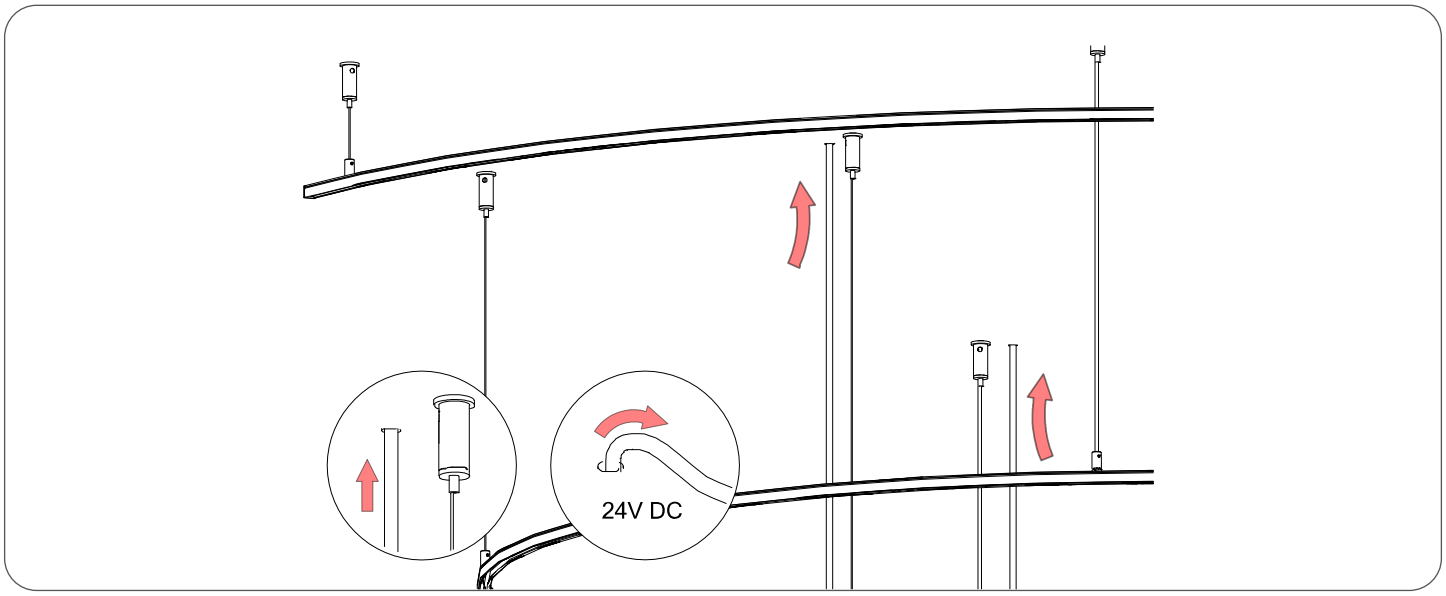
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Routing the 24 V DC cable

- Routing the low-voltage cable through the prepared opening and protecting it from strain.

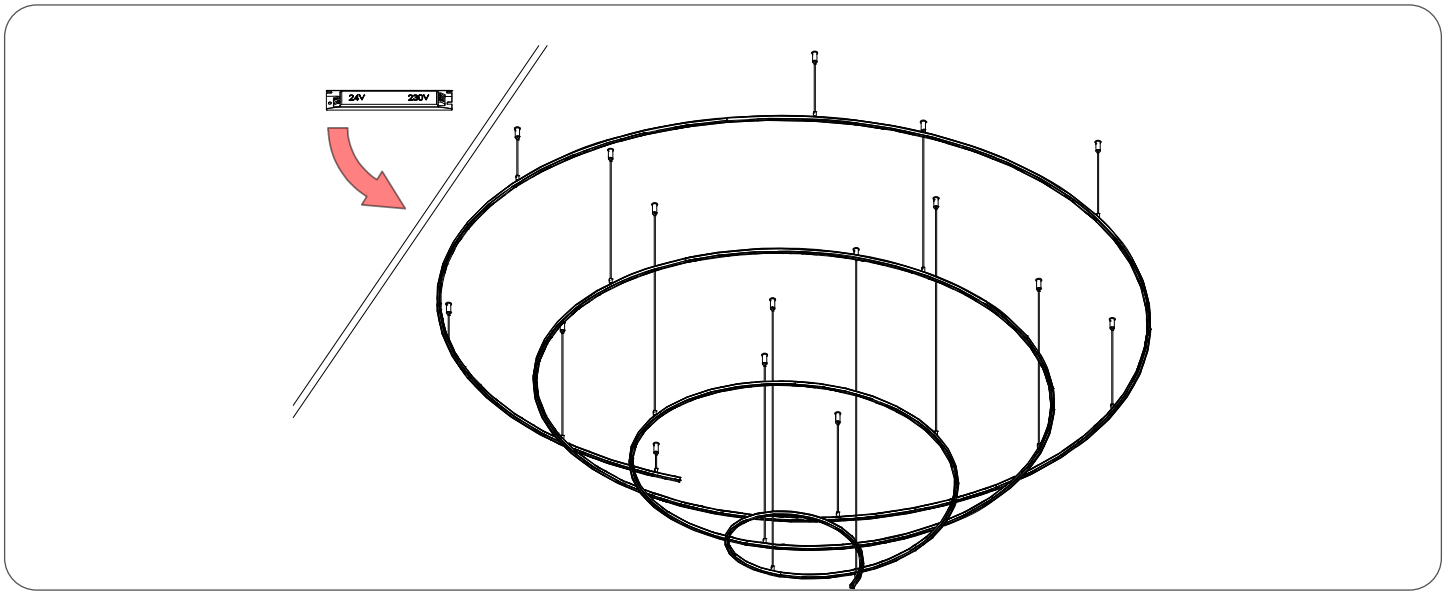
Step 1 - Route the cable through the ceiling

- Route the supply cable from the upper part of the luminaire to the prepared opening. Feed the cable through the grommet into the installation space above the ceiling.
- Do not pull on the connection between the cable and luminaire or allow the cable to twist.
- Maintain a smooth cable route and leave enough slack for connection and future servicing.
- Secure the cable against slipping out and transferring strain to the connections.



Step 2 - Place the power supply in the installation space

- If the space above the ceiling allows safe installation of the power supply, place it there.
- Secure the power supply firmly, allowing for cooling and future servicing access.
- Do not place the power supply on cables or near sharp edges.



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Connecting the 24 V DC power supply

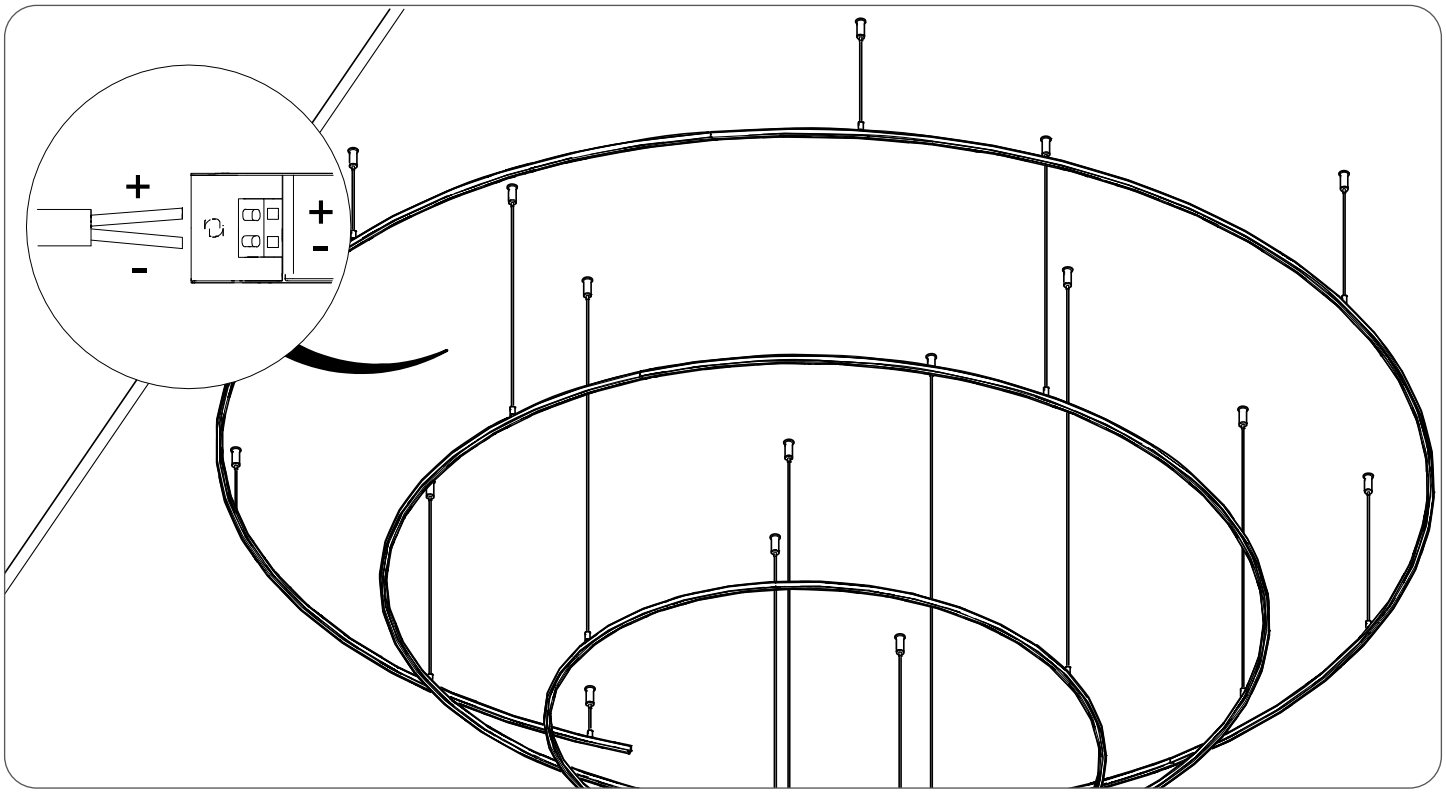
- Power supply installation, connection and final inspection

RULES

- Make all connections with the power disconnected.
- Use a 24 V DC power supply rated for the luminaire configuration.
- The 220-240 V AC side of the power supply must be connected by a suitably qualified person.
- Observe the correct polarity: “+” to the positive terminal, “-” to the negative terminal.
- After connection, secure the wires against being pulled out or strained.

Step 1 - Prepare the power supply and connect the luminaire cable

- If the power supply has not yet been prepared for connection, prepare its 24 V DC output according to the power supply manufacturer’s instructions.
- Strip the wire ends to a length suitable for the terminal used.
- Connect the positive and negative conductors according to the terminal markings.
- Check that the connection is secure. Conductors must not be loose or exposed outside the terminal.
- Arrange the cable in the installation space so that it is not pinched or in contact with sharp edges.

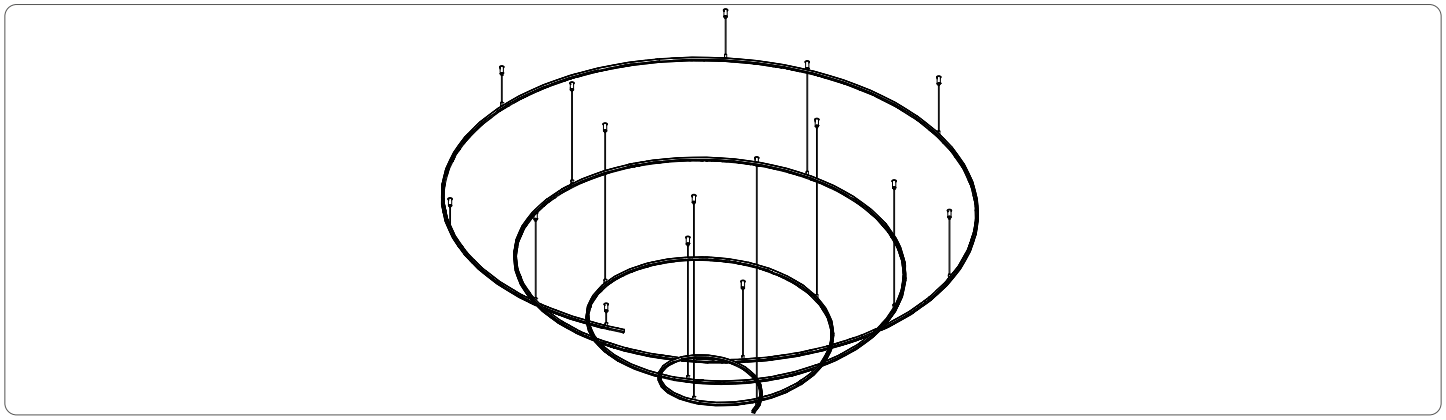


Step 2 - Final inspection

- Check that all mounting points and cable locks are secure.
- Verify the correct polarity of the wires.
- Make sure the cable is neither strained nor pinched.
- Check that the power supply is accessible and adequately ventilated.
- After completing the inspection, switch on the power and check that the luminaire operates correctly.

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Maintenance, disposal, EU compliance and disassembly



CLEANING:

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

DISPOSAL

- Do not dispose of with household waste.
- Take the product to a collection point for waste electrical and electronic equipment.

COMPLIANCE

- The product complies with the requirements of standard PN-EN 60598-1.

LUMINAIRE DISASSEMBLY

Disassemble in the reverse order of installation. Perform all operations with the power disconnected.

WARNING!

Before starting disassembly, always disconnect the 220-240 V AC, 50/60 Hz power supply. When removing the luminaire, secure it against falling.

- Disconnect the luminaire cable from the 24 V DC output of the power supply.
- Support the luminaire and loosen the clamping screws of the ceiling mounts.
- Remove the suspension cables from the ceiling mounts while continuously supporting and controlling the weight of the luminaire. Remove the suspension components and ceiling fixings if necessary.
- Have a suitably qualified person disconnect the power supply on the 220-240 V AC side.
- After disassembly, secure the installation wires in accordance with applicable regulations.

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