

Assembly instructions

Date: 30.07.2019

HIGHMOON FLAT

General remarks on safety

Read all of these instructions before installing fixtures.

- Keep all of the instructions for future reference.
- Turn off power before installing fixture.
- Installation is to be performed by a qualified electrician.
- For North America all installations are to conform to the standards of National Electrical Code as well as all local jurisdictional codes and regulations.
- Any modification of the luminaire will void any and all written or implied warranties.
- Do not open the luminaire - this will void the IP rating
- The manufacturer accepts no responsibility for damage to persons or property arising through improper use or installation.

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED



Dangers

- Verify power is off at installation time.
- Injuries caused by electricity are possible

BOM

Package 1

<input checked="" type="checkbox"/>	Aluminium frame with integrated foil and pre mounted power supply cable	①	1 unit
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Package 2

<input type="checkbox"/>	4 steel cables	②	4 units
<input type="checkbox"/>	Power supply unit	③	1 unit
<input type="checkbox"/>	Canopy/Pendant canopy	④	1 unit

<input checked="" type="checkbox"/>	White gloves	⑤	1 pair
<input checked="" type="checkbox"/>	Screwdriver		1 unit
<input checked="" type="checkbox"/>	Mounting instructions		1 unit

Dimmer

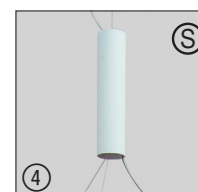
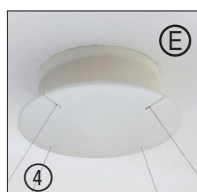
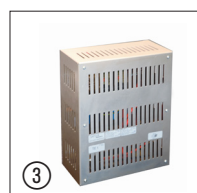
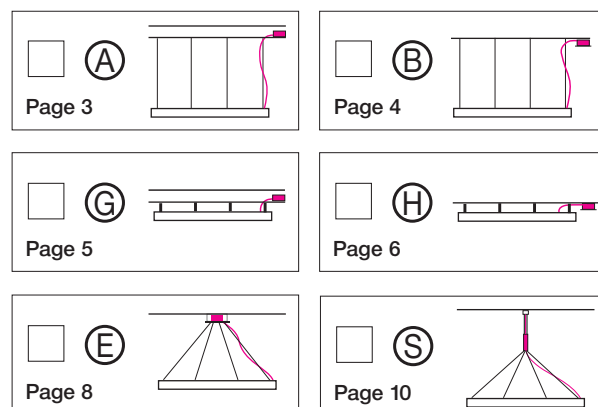
<input type="checkbox"/>	Not dimmable
<input type="checkbox"/>	DMX interface
<input type="checkbox"/>	Dimmer interface 0-10V
<input type="checkbox"/>	Dimmer interface 1-10V
<input type="checkbox"/>	DALI interface
<input type="checkbox"/>	LUTRON interface
<input type="checkbox"/>	Bluetooth interface
<input type="checkbox"/>	EnOcean interface

Technical Data:

Device sticker

Mounting Version

Supply line 24 V



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Warranty

Use the enclosed assembly instructions for the installation of the lighting fixture. Non-compliance with the assembly instruction will automatically void the warranty.

The persons assigned with the installation of the product are instructed to handle it with the utmost care and safety in order to avoid damages to third parties.

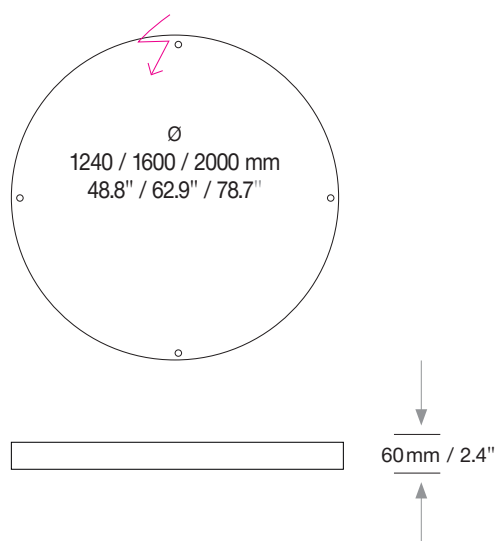
The present light fixture has been tested and is fully operational.



HIGHMOON FLAT, assembly version (S)

HIGHMOON FLAT

Size:	Ø mm / inches	weight kg ² / lbs ²
	Ø 1240 / 48.8"	6 / 13.2
	Ø 1600 / 62.9"	8 / 17.6
	Ø 2000 / 78.7"	11 / 24.2



2 Packages



Mounting with 2 persons



Consignment consists of 2 packages

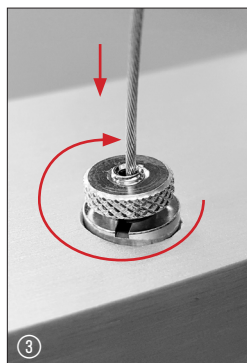
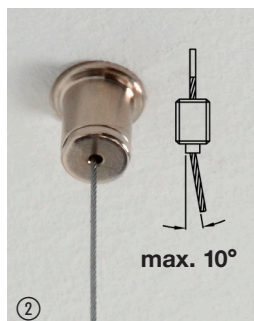
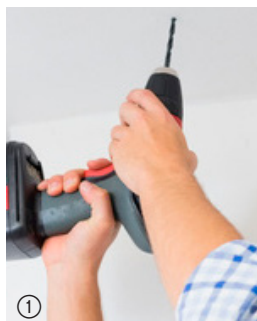
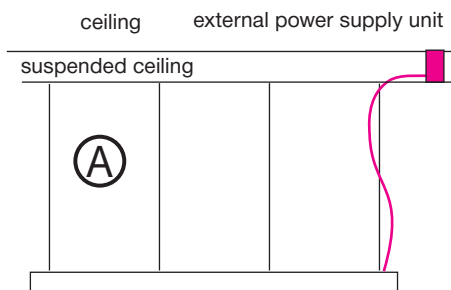
Unpack light fixture and check the parts list to make sure it is complete. Use the provided gloves for fitting the light fixture in order to keep polished surfaces and the acrylic glass clean.

Do not remove the protective foil until after assembly.

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Light fixture with steel cable suspension – Connection of the light fixture with external power supply unit



Mounting of the cable grippers, installation of the light fixture



Make sure the ceiling has sufficient support capacity!

1. Mark the 4 anchor positions of the light fixture on the ceiling according to the drilling template on (p. 7).
2. Drill Ø 6mm / 1/4 holes, insert anchors and fasten steel cable holders, see pictures ① + ②.



The steel cable grippers cannot be used for outdoor areas. Make sure cables are not damaged. Prior to mounting, the nozzle of the steel cable bracket has to have noticeable spring pressure. In order to ensure full suspension, the steel cables have to be clean and free from greases, oils and rust. The steel cable grippers can only be used in connection with the provided fixation cables for stationary and static loads, see picture ②

3. Insert the steel cables to the ceiling mounted steel cable grippers ② and fix it.
4. Lift the light fixture in its desired position and adjust by applying light pressure on the steel cable grippers pre-attached to the light fixture, see picture ③.
5. Lock the steel cable grippers in place by use of the insulated knurled screw.
6. Shorten excessive steel cables.

Assembly of the operating unit, connection to light fixture

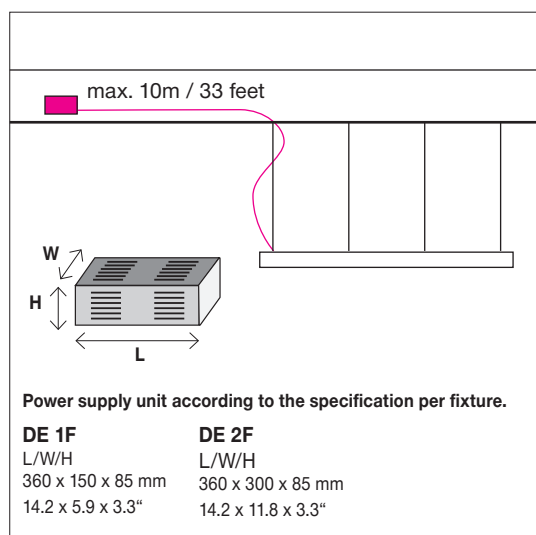


Mount external power supply unit only in a dry and ventilated place!

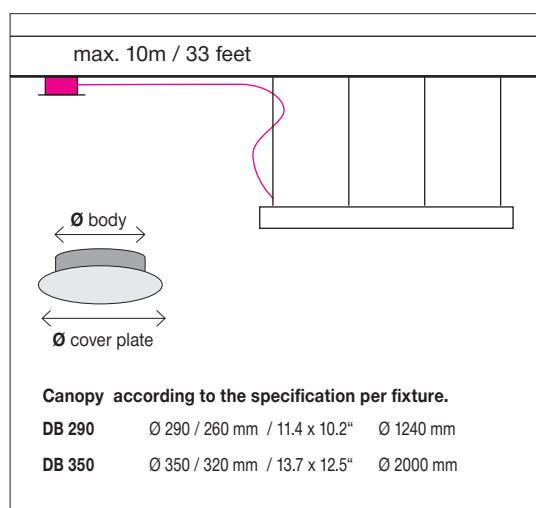
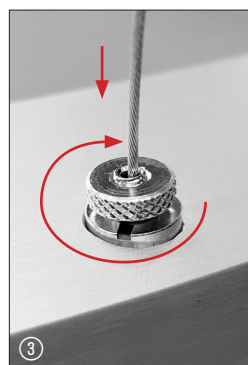
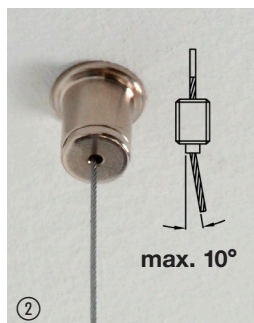
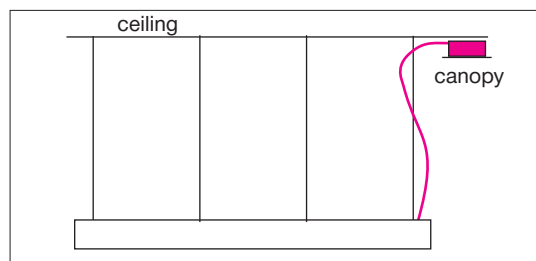
Power supply cable from the operating unit to the light fixture max. 10m / 33 feet

Assembly of external power supply vertically or horizontally

7. Open the housing of the operating unit by loosening the 4 screws.
8. Fix the technical unit on a safe place.
9. Connect primary connection and power supply cable of the light fixture according to the wiring diagram (p. 11), then fasten the housing of the operating unit again.
10. Check whether the light fixture is functioning.



HIGHMOON FLAT



Light fixture with steel cable suspension – Connection of the light fixture with separate canopy



Mounting of the cable grippers, installation of the light fixture



Make sure the ceiling has sufficient support capacity!

1. Mark the 4 / 6 anchor positions of the light fixture on the ceiling according to the drilling template (p. 7).
2. Drill Ø 6mm / 1/4 holes, insert anchors and fasten steel cable holders, see pictures ① + ② .



The steel cable grippers cannot be used for outdoor areas. Make sure cables are not damaged. Prior to mounting, the nozzle of the steel cable gripper has to have noticeable spring pressure. In order to ensure full suspension, the steel cables have to be clean and free from greases, oils and rust. The steel cable gripper can only be used in connection with the provided fixation cables for stationary and static loads, see picture ③

3. Insert the cables which have been pre-attached to the light fixture in the steel cable grippers.
4. Lift the light fixture in its desired position and adjust by applying light pressure on the steel cable grippers ③.
5. If provided, lock the steel cable grippers in place by use of the insulated knurled screw.
6. Shorten excessive steel cables.

Assembly of the canopy, connection to light fixture



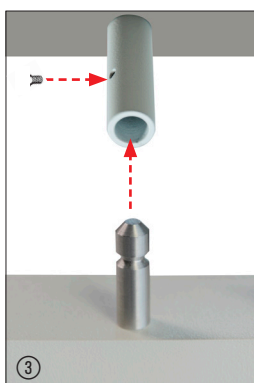
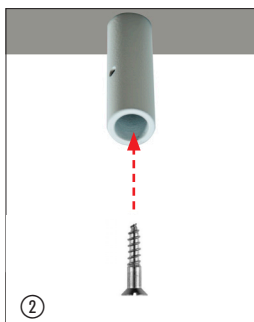
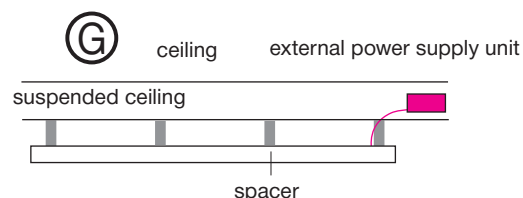
Power supply cable from the operating unit to the light fixture max. 10m / 33 feet

7. Mark the 4 anchor positions of the canopy on the ceiling according to the scale sketch (p. 8). Drill Ø 6mm / 1/4 holes, insert anchors and fasten canopy.
8. Connect primary connection in accordance with the wiring diagram.
9. Insert the power supply cable that has been pre-attached to the light ring in the side of the canopy and connect to the terminal block according to wiring diagram (p. 11).
10. Mount canopy cover and fasten with screws from the side.
11. Check whether the light fixture is functioning.

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Direct ceiling mounting – Connection of the light fixture with external power supply unit



Mounting of the ceiling support



Make sure the ceiling has sufficient support capacity!

1. Mark the 4 anchor positions of the light fixture on the ceiling according to the drilling template (p. 7).
2. Drill Ø 6mm / 1/4 holes, insert anchors and fasten ceiling spacers (50 mm), see pictures ① + ② .
3. Insert the bolts which have been pre-attached to the light fixture, in the ceiling spacer.
4. Fasten with the locking screw on the side ③..

Assembly of the operating unit, connection to light fixture

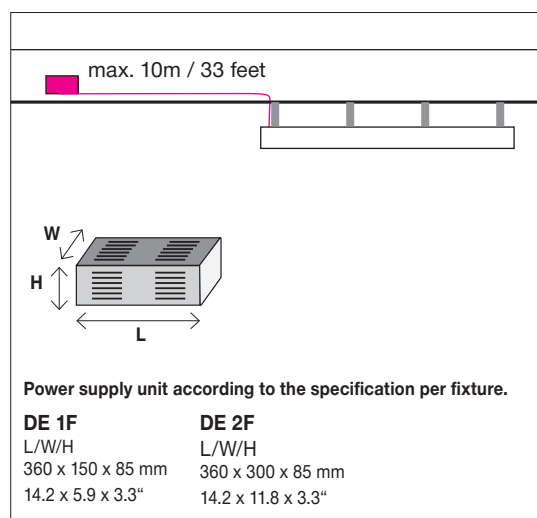


Mount operating unit only in a dry and ventilated place!

Power supply cable from the operating unit to the light fixture max. 10m / 33 feet

Fixation of power supply unit unit vertically or horizontally

5. Open the housing of the operating unit by loosening the 4 screws.
6. Fix the technical unit on a safe place.
7. Connect primary connection and power supply cable of the light fixture according to the wiring diagram (p. 11), then fasten the housing of the operating unit again.
8. Check whether the light fixture is functioning.



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Direct ceiling mounting – Connection of the light fixture light fixture with separate canopy

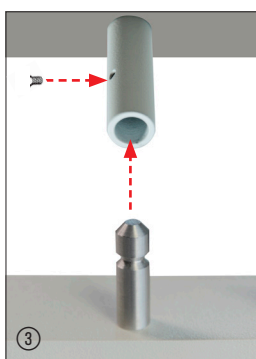
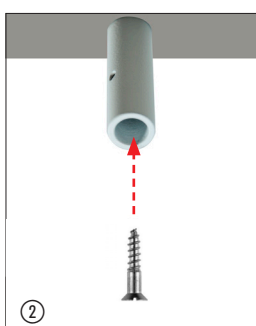
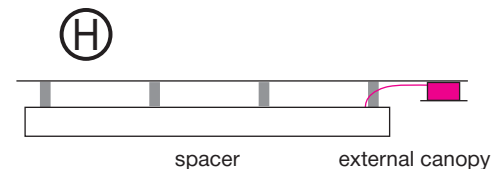


Mounting of the ceiling support



Make sure the ceiling has sufficient support capacity!

1. Mark the 4 anchor positions of the light fixture on the ceiling according to the drilling template (p. 7).
2. Drill Ø 6mm / 1/4 holes, insert anchors and fasten ceiling spacers (50 mm), see pictures ① + ② .
3. Insert the bolts which have been pre-attached to the light fixture, in the ceiling spacer.
4. Fasten with the locking screw on the side ③..

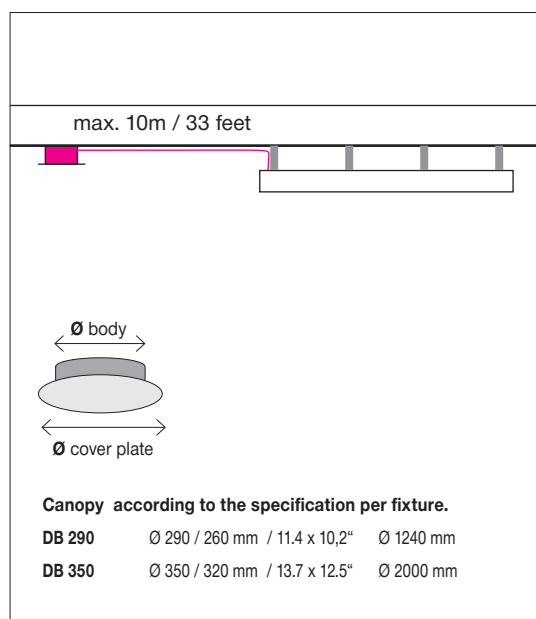


Assembly of the canopy, connection to light fixture



Power supply cable from the operating unit to the light fixture max. 10m / 33 feet

5. Mark the 4 anchor positions of the canopy on the ceiling according to the scale sketch (p. 8). Drill Ø 6mm / 1/4 holes, insert anchors and fasten canopy.
6. Connect primary connection in accordance with the wiring diagram.
7. Insert the power supply cable that has been pre-attached to the light ring in the side of the canopy and connect to the terminal block according to wiring diagram (p. 11).
8. Mount canopy cover and fasten with screws from the side.
9. Check whether the light fixture is functioning.



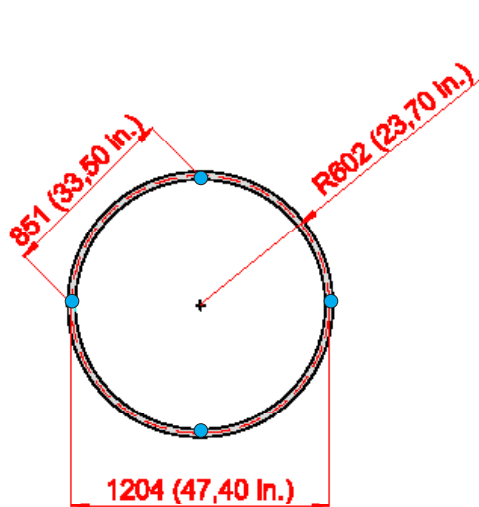
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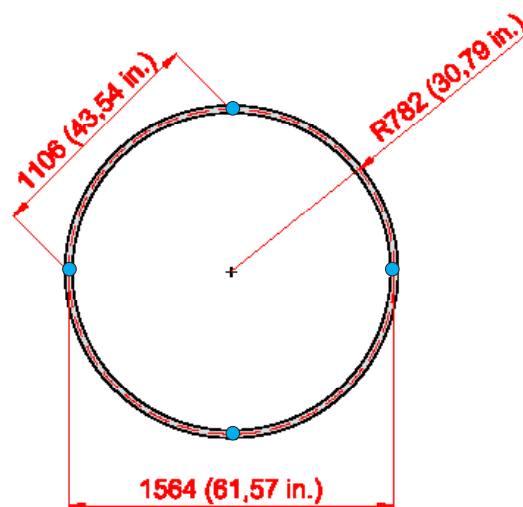
HIGHMOON FLAT

**Light fixtures with steel cable suspension or ceiling spacers**

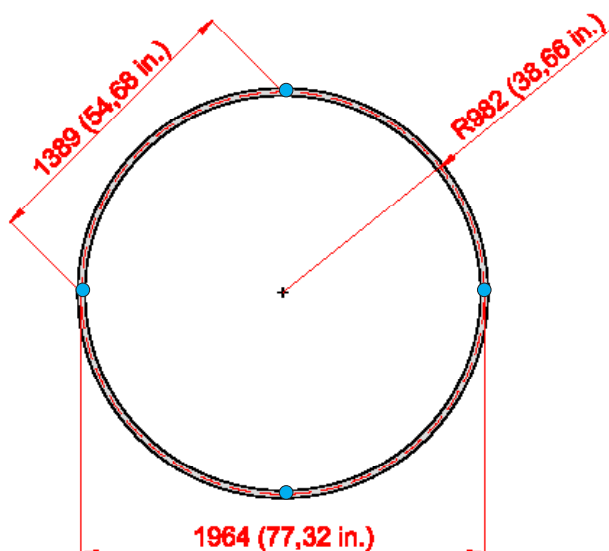
Depending on the selected luminaire size:



Highmoon Flat Ø 1240 mm / 48.8"
4 Suspension Points



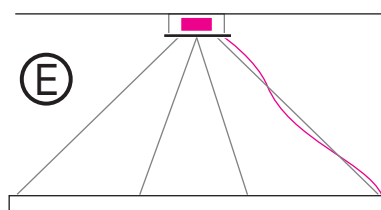
Highmoon Flat Ø 1600 mm / 62.9"
4 Suspension Points



Highmoon Flat Ø 2000 mm / 78.7"
4 Suspension Points

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Light fixture with canopy – Connection of the light fixture with separate power supply cable



Mounting of the canopy



Make sure the ceiling has sufficient support capacity!

1. Fit the base of the canopy to the ceiling with the 4 mounting points. Ø Drill 6mm / 1/4" holes and anchor to fasten canopy to ceiling (see scale sketch on the left).
2. Connect the power supply and the control signal to the terminal block of the canopy (see wiring diagram (p. 11)).

Connection of the light fixture

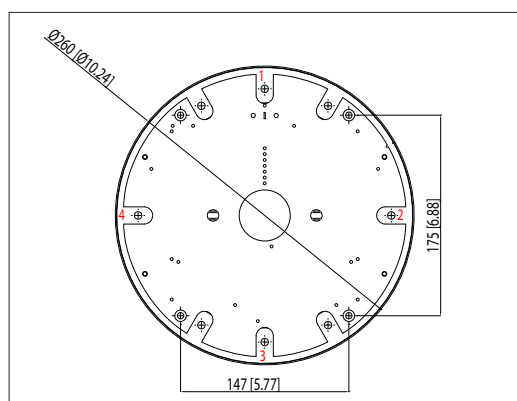
3. Attach the enclosed 4 steel cables to the provided cable grippers on the canopy.
4. Insert the steel cables into the cable grippers pre-assembled on the light fixture, bring the light fixture into the desired position and align them by applying light pressure on the cable grippers ①.
5. Lock the cable grippers in place by use of the knurled screw.
6. Shorten excessive steel cables.



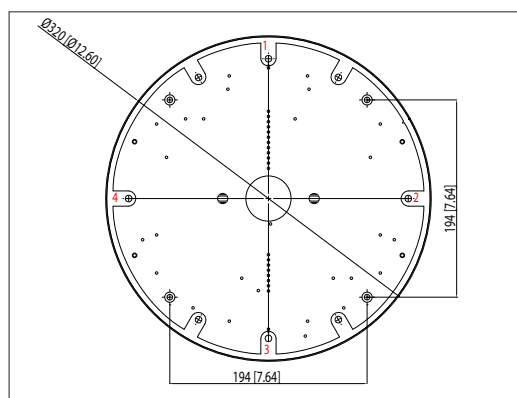
Never adjust the suspension under pressure. The steel cables might get damaged.

Shortened cables can only be replaced by the factory!

7. Insert the power supply line through the side of the ceiling plate and connect it to the terminal block in accordance with the wiring diagram (p.11).
8. Mount the canopy cover and fasten it with screws from the side.
9. Check whether the light fixture is functioning.



Canopy Ø 290 mm / 11.4" with 4 steel cables



Canopy Ø 350 mm / 13.7" with 4 steel cables



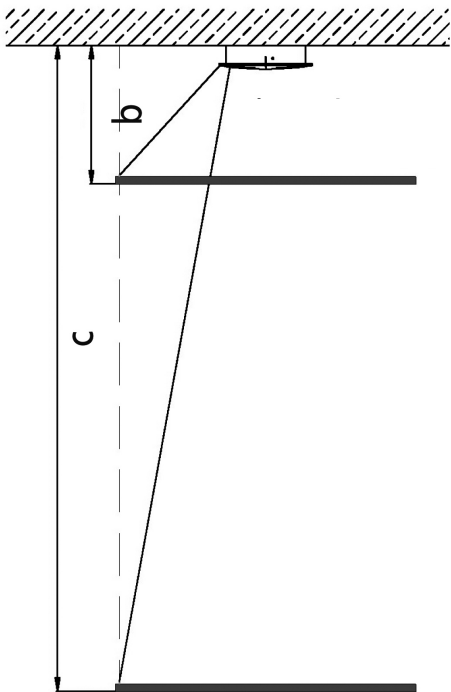
Canopy with mounted cover

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Light fixture with canopy

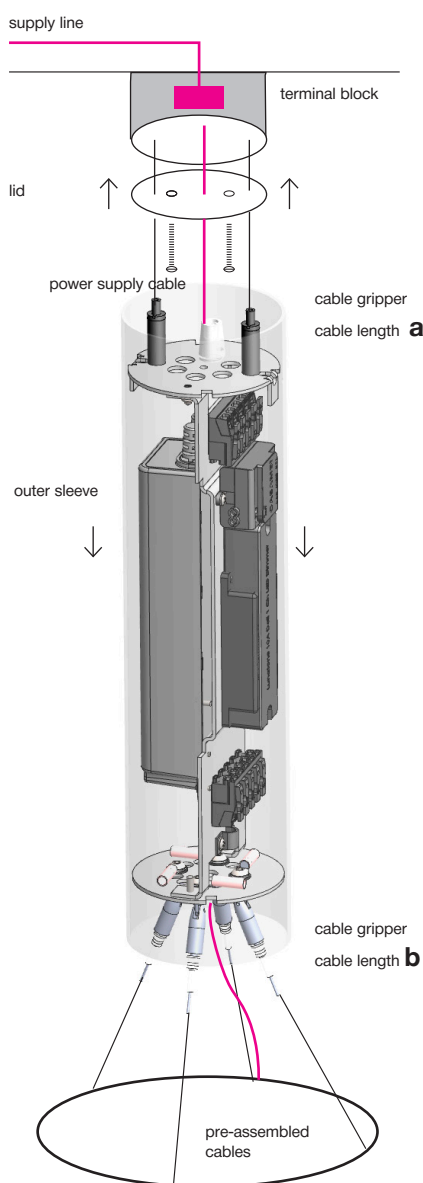
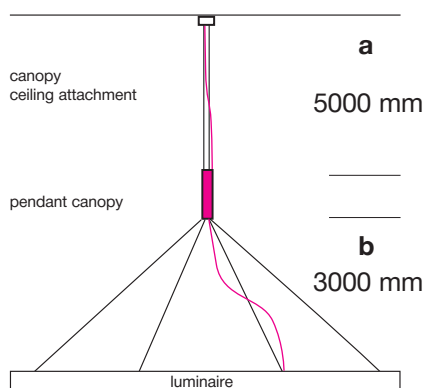
minimum (b) respectively maximum (c) ceiling suspension



Diameter	MIN „b“	MAX „c“
Ø 1240 mm / 48.8"	620 mm / 24.4"	5000 mm / 197"
Ø 1600 mm / 62.9"	800 mm / 31.4"	5000 mm / 197"
Ø 2000 mm / 78.7"	1000 mm / 39.3"	5000 mm / 197"

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Luminaire with pendant canopy – Connecting the light fixture with separate supply line



Mounting the Canopy Ceiling Attachment



Verify sufficient load-bearing capacity of the ceiling!

1. Fasten the canopy ceiling attachment to the ceiling at the 2 mounting points. Ø 6mm / 1/4" drill and wall plugs
2. Connect the power supply and the control signal to the terminal block of the canopy. For this, dismount the terminal block, connect the cables and mount the terminal block again. Insert the two pre-assembled steel cables (5000mm) and the power supply cable through the canopy lid, fasten cable anchorage and lid with magnets.

Mounting the Pendant Canopy

3. Move the outer sleeve of the pendant canopy up, turn and then move it down.
4. Insert both steel cables (cable length a) in the cable gripper of the pendant canopy and adjust to desired length by applying slight pressure to the cable gripper.



Never adjust the suspension under load to avoid damage to the steel cables.

5. Lock the cable grippers on the canopy by use of the insulated knurled nut.
6. Protruding steel cables may be shortened, if necessary.



Shortened cables may only be replaced at the factory

7. Connect the supply line to the terminal block of the pendant canopy, lock cable anchorage. Move the outer sleeve back up.

Connecting the Luminaire

8. Fasten the luminaire body to the bottom part of the pendant canopy at the cable anchors provided with the pre-assembled cables (cable length b) and adjust by applying slight pressure to the cable hold.
9. Lock the cable holds by use of the insulated knurled nut.
10. Connect the pre-assembled supply line to the terminal block at the bottom of the pendant canopy. Lock cable anchorage.
11. Put the sleeve of the pendant canopy back in position and fasten it.
12. Check the luminaire functions.

Canopy according to the specification per fixture.

Typ Canopy size mm / inch

PB 366 Ø 90 H 366 mm / Ø 3.5 H 14.4" (up to 1600 mm)

PB 656 Ø 90 H 656 mm / Ø 3.5 H 25.8" (2000 mm)

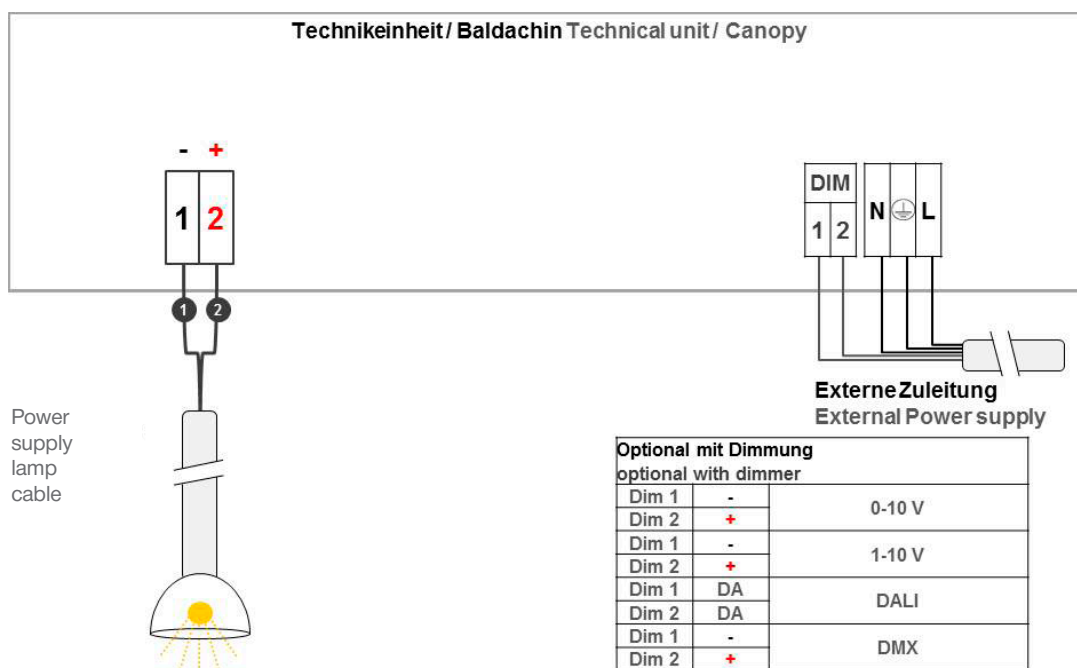
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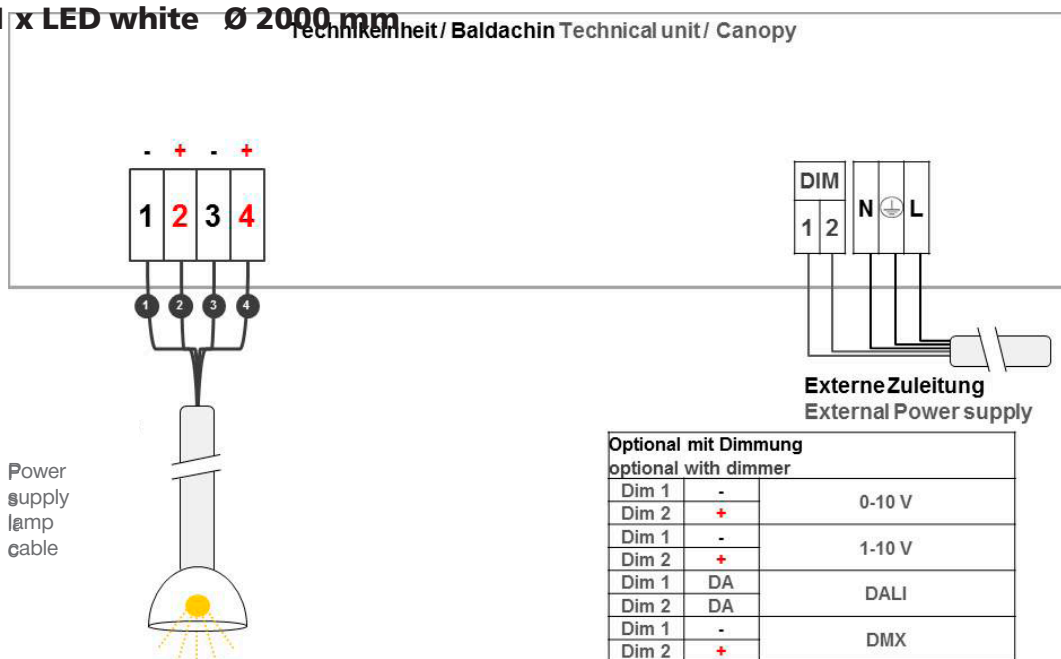


Wiring Diagram 1 x LED white Ø 1240 / 1600 mm



SATTLER	Anschlusschema / wiring diagramm	01_001_1x2a_2W	17.11.2017
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Wiring Diagram 1 x LED white Ø 2000 mm



SATTLER	Anschlusschema / wiring diagramm	01_003_1x4a_4W	17.11.2017
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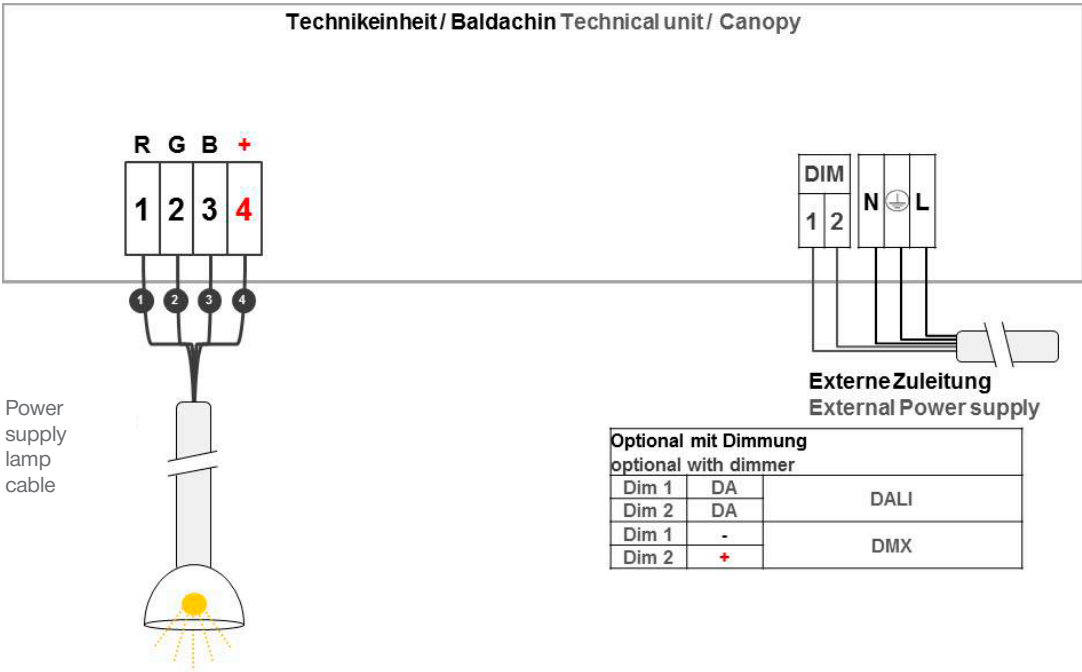
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Wiring Diagram 1x RGB Ø 1240 / 1600 2000 mm



SATTLER	Anschlusschema / wiring diagramm	01_005_1x4a_4RGB	17.11.2017
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We will be glad to assist you with any further questions regarding the assembly of our light fixtures.

Contact: Inter-lux, 3741 Commerce Dr. #306-308, Baltimore, MD 21227. 410.381.1497 inter-lux.com

Legal disclaimer: Please make sure to adhere to all safety instructions. Every single assembly step is crucial in order to ensure the safety of the light fixture and the technician. Inter-lux and SATTLER GmbH cannot be held liable for any damages or injuries in case of negligence of safety instructions.