




Luci UQ FLEX SAUNA

instruction Manual

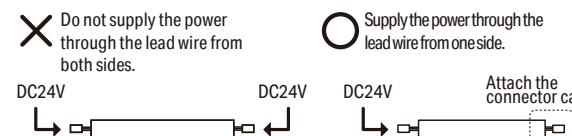
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To ensure safe usage

The following is the safety cautions to prevent any harms or damages to others.
If the product is used against cautions, it may cause damages• electrifications smoke.



Only supply power through the lead wire on one side using the dedicated connection cable for this product.
Supplying power through the lead wires on both sides may cause failure and fire.




Do not supply the power through the lead wire from both sides.


Supply the power through the lead wire from one side.

Attach the connector cap


 Electrical work certificate is needed to install and inspect this product.
Please ask electrician for the installation.



Use a DC24 V power supply. Never connect to any other power supply.
Always use a Overcurrent breaker / circuit breaker of suitable capacity in the power supply.
If the capacity is not suitable, the breaker may not work when abnormal current occurs, creating risk of fire.




Always shut off the main power supply before performing work or inspection.
Do not connect or disconnect the lead wires of the LED fixture while power is supplied.




Firmly insert and connect the connectors.
Incomplete connection may cause heating, smoke, and fire.




Do not touch the ends of the connectors. Risk of electrical shock.



When there is abnormal situations, please cut off the power immediately, consult with electricians, and do not touch the LED fixture with hands.



Do not place a heatable object such as a cloth or paper or an insulating material on top of the LED fixture or cover it with such a material. It may cause the fixture not to turn on or fire.
Do not put a piece of metal or a flammable object in clearance of the LED fixture.
The outline of the LED fixture main unit must not contact equipment in or out of the ceiling. It may cause fall, electric shock, or fire.
Do not operate the fixture with wet hands. It may result in an electric shock.




Important notice for storage
Observe the storing temperature of our LED fixtures: -35°C to 65°C
Please do not store the carton or the packages of our LED fixtures in the following conditions:

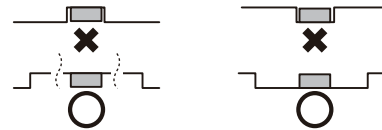
- wet location
- places of high humidity
- places with much litter or dust
- places of exposing against sun light directly
- places a solvent such as a paint liquid is stored


During storing period, please do not leave the cartons or individual packages vertically.
Please do not open individual package until just before installing LED fixtures to avoid any damage to the LED fixtures.
Please do not place heavy object on the carton.
Please do not use our LED fixtures as the working light during construction period.




Always test before connecting the LED fixture to a switch or dimmer.

 The product must be allowed to dissipate heat.
Risk of shortened service life and fire.
Allow sufficient space for ventilation (heat dissipation) between the LED fixture and building structure.
When installing the LED fixture in a box, please make sure to provide the air ventilation hole.







Do not use the product if the cover is damaged.
Risk of an accident and electrical shock.
Avoid spraying detergent directly on the LED fixture.
If this happens, immediately rinse with water.



If the product is dirty, wipe with a dry cloth.
Do not use thinner, benzene, or other organic solvents to clean the product, and do not wash with water.

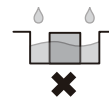


Do not use a brush or an abrasive to polish metal parts.
Risk of damage and corrosion.




Do not use in the following environments:

- A location at high temperature (more than +100°C) (usage environment temperature is 0°C to +100°C)
- A location where water collects, and under the water.



- A location with corrosive or inflammable gases.
- A highly airtight location.
- A location where the product is directly exposed to salt water or organic solvents.
- A location subject to the effects of electric or magnetic fields.
- A location subject to intense vibration or shock, or a location subject to continuous vibration.



Do not do the following to the LED fixture:

- Forcibly remove the product after mounting it.
- Disassemble, modify, or add holes to the product.
- Forcibly pull or twist the product.
- Cut or damage the power cable. Use a damaged cable.
- Press down on the product.
- Drop the product or subject the product to intense vibration or shock.

Please read before the usage

- The product has been manufactured with the utmost care; however, please understand that slight deviations in LED color are unavoidable due to the characteristics of the product.
- To mount in the mounting position, use mounting clips (Accessories) and confirm that the mounting clip is securely fixed.

Caution regarding installation environment of power supply

Regarding the temperature, humidity, and other conditions of the operating environment, follow the instructions in the manual for the power supply.

Maintenance and Inspection

- LED fixture has a life span.
- Degradation occurs inside after a few years of installation even when the fixture looks fine from the outside.
Parts of the LED fixture degrade due to heat when the light is on for a long time. This causes not only safety issues, but also reduces power efficiency and it is recommended to have regular maintenance and inspection.
- Cleaning and inspection should be performed at least once every 6 months.
- Inspection by a specialist, such as a product contractor, should be performed at least once every 2 years.
- If the LED fixture is used for a long time without having an inspection, there is a small possibility that it could lead to fuming, igniting, electric shock and the like.


Inspection Methods


- Is LED operating normally?
- Is there any unusual smell, sound or heat?
- Are there any cracks, splits, or detached parts on any parts or joints?


Cleaning Method

- Lightly wipe the LED fixture with a soft cloth.
- To best clean the LED fixture, wipe dirt with a soft cloth which has been soaked in a neutral detergent diluted with water and wrung firmly. To finish off, wipe it with a damp cloth and dry it.

Pay attention when use in high temperature environment

 Since the parts are made of metal, there is a risk of burning injury by touching directly in a high-temperature environment. Please install the parts and in a place where not being touched directly. In case of maintenance or replacement of the LED fixtures, make sure that the surrounding temperature and parts are not hot, and then perform the work.

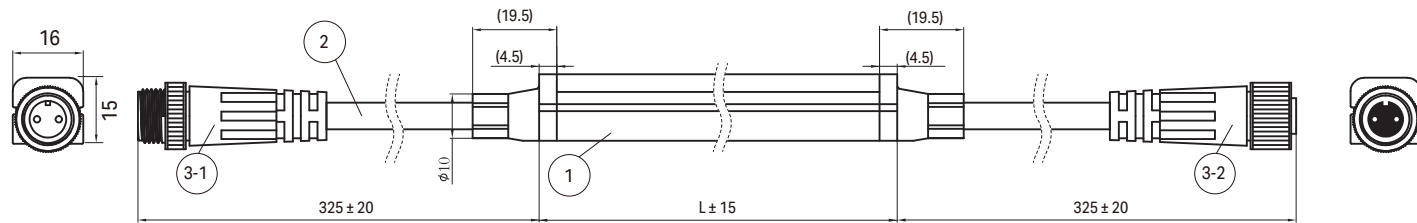
 Please make sure to install the power supply in an appropriate environment according to the instruction manual of the power supply.

 When use in extremely high temperature spot such as expose to blowing hot air directly, a ceiling, please make sure that environment temperature does not exceed fixture specification in advance.

Product specification

□ unit of measure=mm

【LFUS-T * * WS-L27-DF-O】

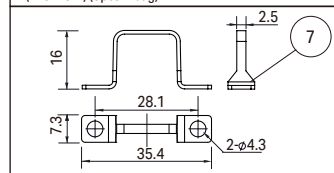
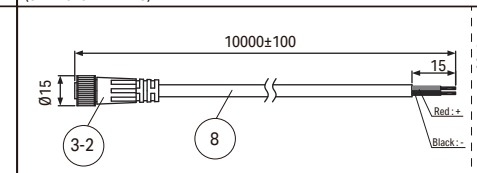
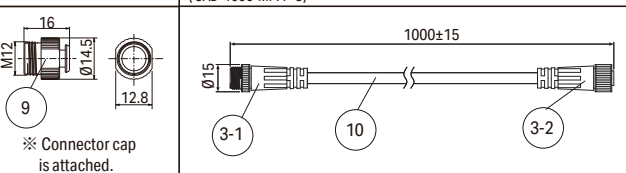


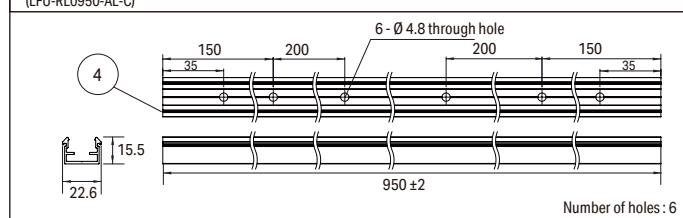
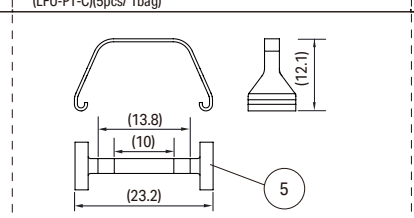
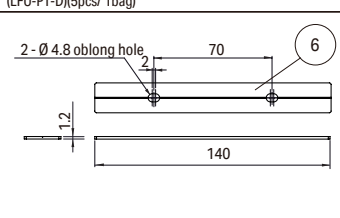
Input Voltage

DC24V

No	Item	Name Material etc.
①	Body	Diffuser
②	Lead wire	
③-1	Connector	
③-2	Connector	
④	Aluminum mounting rail C type	Aluminum
⑤	SUS hold clip C	SUS
⑥	Joint Plate	SUS
⑦	Mounting clip B	SUS
⑧	Power supply cable	+ : Red, - : Black
⑨	Connector cap	
⑩	Joint cable	

Option parts

Option parts: Mounting clip B for UQ FLEX (LFU-RC-B) (5pcs/1bag)	Option parts: Power supply cable 10M for UQ FLEX (CAD-V010M-FPNN-O)	Option parts: Joint cable 1M for UQ FLEX (CAD-1000-MPPF-O)
		

Released in May 2020 Option parts: Aluminum mounting rail C type 950 for UQ FLEX H13 (LFU-RL0950-AL-C)	Accessories for rail & Option parts: SUS hold Clip C for UQ FLEX AL rail C (LFU-PT-C) (5pcs/ 1bag)	Accessories for rail & Option parts: Joint plate for UQ FLEX AL rail C (LFU-PT-D) (5pcs/ 1bag)
		

Spec • Rating may be subject to change without announcements.

Unit Of Measure : mm

Product specification

□ unit of measure=mm

Item / Product Name	Luci UQ FLEX SAUNA		
Model No.	LFUS-T0250WS-L27-DF-O	LFUS-T0500WS-L27-DF-O	LFUS-T1000WS-L27-DF-O
Lead wire & Cable type	Both ends lead wire-Straight feed		
Wattage	1.2 W (Ta=25℃)	2.3 W (Ta=25℃)	4.6 W (Ta=25℃)
Input current	(0.05 A max)	(0.11 A max)	(0.21 A max)
Fitting length (L)	258mm	508mm	1008mm
Environment	In & Outdoor、IP67 Humidity up to 95%RH		
Operating temperature	0℃ ~ +100℃		
Max. fixture length	5m		
Material (Body)	Silicon		
Attachments	-		
Accessories	Mounting clip B for UQ FLEX, Power supply cable 10M for UQ FLEX(Connector cap is attached), Joint cable 1M for UQ FLEX Released in May 2020 Aluminum Mounting Rail C Type 950 for UQ FLEX H13, SUS hold clip C for UQ FLEX AL rail C, Joint plate for UQ FLEX AL rail C		
Dimmable	PWM, 0-10		
Light source color	Warm white 2700K(L27)		

Connecting to the power supply

■ Cables used for connecting LED fixtures and Power supply must be a suitable type and gauge.

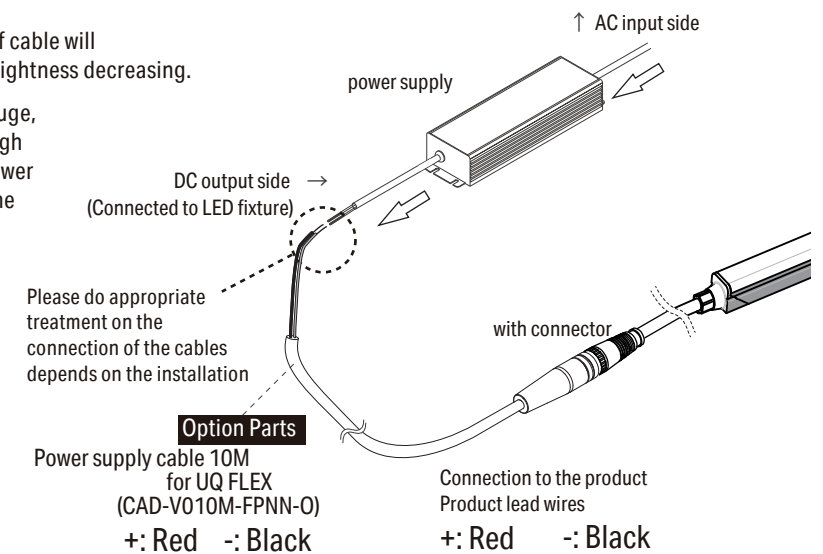
■ Cables should be joined with suitable terminal block or methods as appropriate to the installation and operating environment.

Caution: When using a long cable with thin dimension, the resistance of cable will increase. Voltage drop and heat discharging may occur and result in brightness decreasing.

Caution: When separating one cable to multiple circuits in the same gauge, the current loading focuses on the junction of the branch circuit and high temperature will liberate on there. Please consider the loading of the power supply (quantity of LED fixture) and review the wiring system to avoid the above problem.

■ When connecting the dimmer driver with power supply, unpredicted noise might occur. It is a characteristic of electronic devices, not a malfunction of the LED fixture. Please choose an appropriate power supply and consider a place to install. Reducing the loading factor of LED fixture might improve the noise from the power supply while the noise for the LED fixtures might be improved by splitting the circuit of LED fixtures into multiple.

■ When you adjust the length of the power supply cable, please be careful not to damage the core wire.

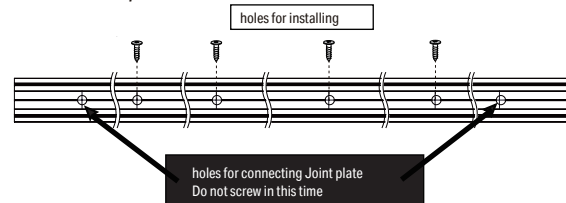


Installing the product

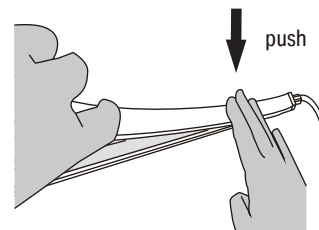
Installation with mounting rail (When the length of the LED fixture is up to 1m)

Released in May 2020

- ① Fix the aluminum rail by screws supplied by installer (pan head screw M4 recommended)
In this time, do not screw both end holes.



- ② Hold one side of the LED fixture and push on the other side, the LED fixture will gradually enter the aluminum rail.



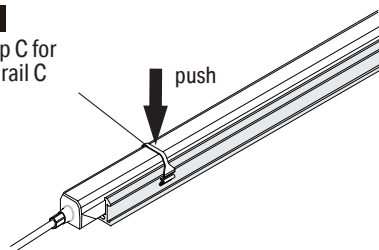
⚠ Cautions

When insert the LED fixture into the rail, do not press with excessive force, and exercise caution not to damage the LEDs, electronic components, board, and other parts with your fingers or a tool. There are high risk of LED unlighted, wire breakage and other failure occurring due to above improper handling.

- ③ Push the SUS hold clip (LFU-PT-C) until click sound and make sure it is securely locked. SUS hold clip is recommended in the environment where requires durability.

Option parts

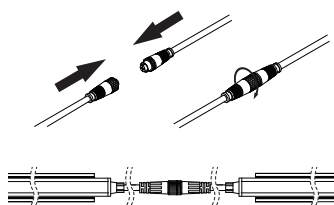
SUS hold clip C for UQ FLEX AL rail C (LFU-PT-C)



- ④ Recommended number of hold clip as below.

length(mm)	number
L250	2
L500	2
L510~L1000	5

- ⑤ Ensure the pin holes in the connectors are positioned correctly before joining them.
To fasten, rotate the metallic knobs until tightend.



⚠ Cautions

The unenclosed connector at the terminal of UQ FLEX SAUNA must be sealed with connector cap which is enveloped in the power supply cable(CAD-V010M-FPNN-O).
To fasten, rotate the metallic knobs until tightend.



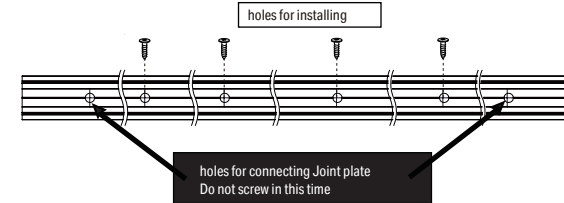
Aluminum rail cut

The Aluminium Mounting Rail C type 950 for UQ FLEX H13(LFU-RL0950-AL-C) can be cut according to the length of lighting fixture. Aluminum rail mounting holes can also be made at the site by the installer. Please cut properly with a cutting tool for aluminum.

Installation with mounting rail (When the length of the LED fixture is longer than 1m)

Released in May 2020

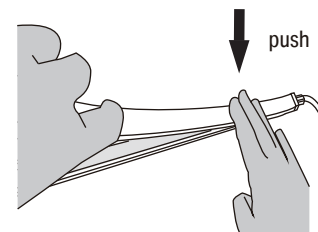
- ① Fix the aluminum rail by screws supplied by installer (pan head screw M4 recommended)
In this time, do not screw both end holes.



- ④ Fix the holes of rails and plate altogether by screws.



- ⑥ Hold one side of the LED fixture and push on the other side, the LED fixture will gradually enter the aluminum rail.



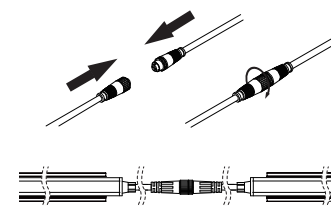
⚠ Cautions

When insert the LED fixture into the rail, do not press with excessive force, and exercise caution not to damage the LEDs, electronic components, board, and other parts with your fingers or a tool. There are high risk of LED unlighted, wire breakage and other failure occurring due to above improper handling.

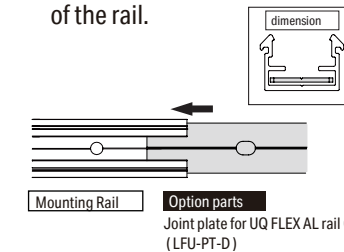
- ⑧ Recommended number of hold clip as below.

length(mm)	number
L1100~L2000	10
L2100~L3000	15
L3100~L4000	20
L4100~L5000	25

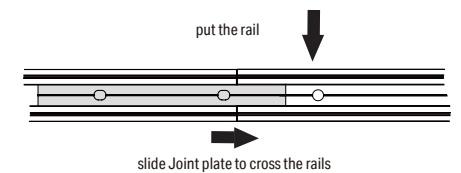
- ⑨ Ensure the pin holes in the connectors are positioned correctly before joining them.
To fasten, rotate the metallic knobs until tightend.



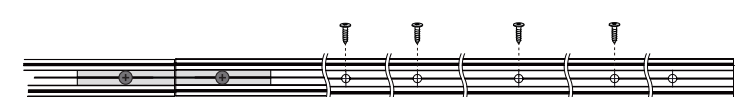
- ② Put the Joint plate into bottom of the rail.



- ③ Put the second rail and slide the Joint plate as below.



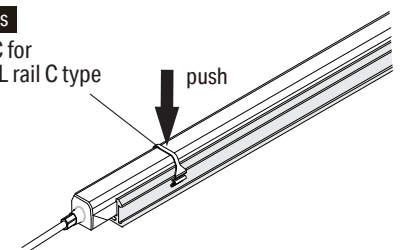
- ⑤ Fix the holes of second rail for installation like ①...



- ⑦ Push the SUS hold clip (LFU-PT-C) until click sound and make sure it is securely locked. SUS hold clip is recommended in the environment where requires durability.

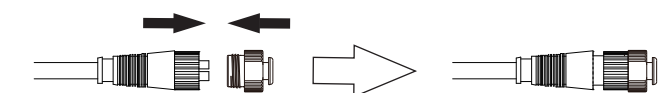
Option parts

Hold Clip C for UQ FLEX AL rail C type (LFU-PT-C)



⚠ Cautions

The unenclosed connector at the terminal of UQ FLEX SAUNA must be sealed with connector cap which is enveloped in the power supply cable(CAD-V010M-FPNN-O).
To fasten, rotate the metallic knobs until tightend.

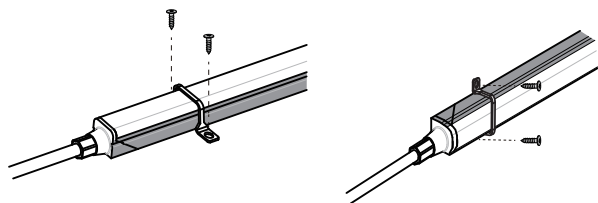


Aluminum rail cut

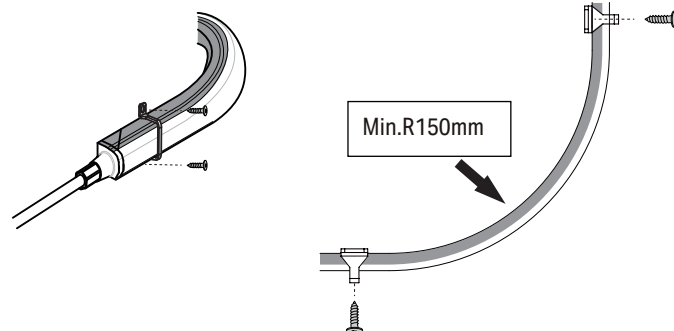
The Aluminium Mounting Rail C type 950 for UQ FLEX H13(LFU-RL0950-AL-C) can be cut according to the length of lighting fixture. Aluminum rail mounting holes can also be made at the site by the installer. Please cut properly with a cutting tool for aluminum.

General installation

- ① Fix the mounting clip by 2pcs of screws supplied by installer (pan head screw M4 recommended).



- ② UQ FLEX SAUNA can be installed in curved surface as below picture. The minimum bending radius is 150 mm.

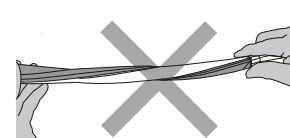
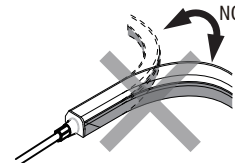
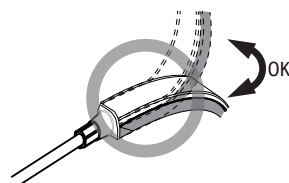


Option parts

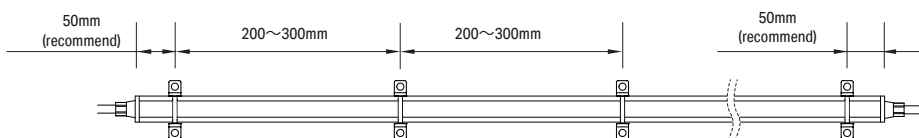
Mounting Clip B for UQ FLEX (LFU-RC-B)

⚠ Cautions

Do not bend the LED fixture to side direction and twist. If bend it wrongly, FPC will be damaged and the LED fixture will not turn on.
Do not twist the LED fixture as it will damage and break the FPC and LED fixture will not turn on.



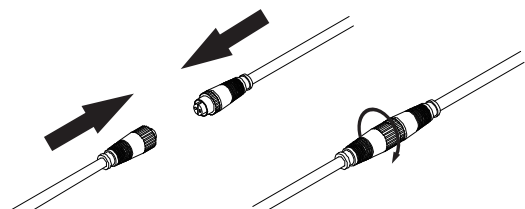
- ③ Keep the distance between mounting clips the same. (200 mm to 300 mm recommended).
Mounting clips at both ends should be far from about 50mm from the side cap to prevent lifting of the LED fixture.



- ④ Recommended number of mounting clip as below.

length(mm)	number
L250	2
L500	2
L510~L1000	5
L1100~L2000	10
L2100~L3000	15
L3100~L4000	20
L4100~L5000	25

- ⑤ Ensure the pin holes in the connectors are positioned correctly before joining them.
To fasten, rotate the metallic knobs until tightend.



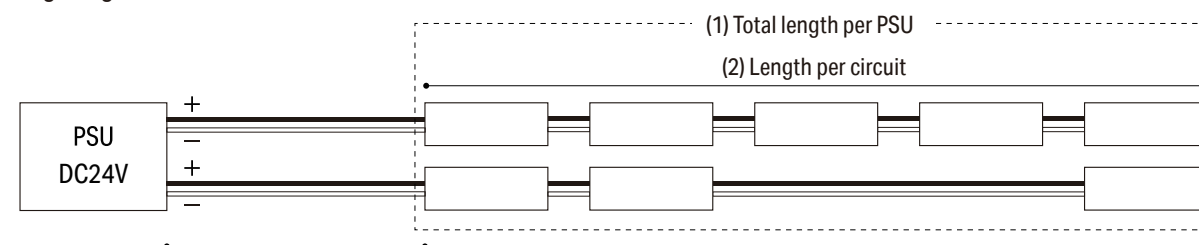
⚠ Cautions

The unenclosed connector at the terminal of UQ FLEX SAUNA must be sealed with connector cap which is enveloped in the power supply cable(CAD-V010M-FPNN-O).
To fasten, rotate the metallic knobs until tightend.



System configuration diagram

- Total product length per power supply depends on capacity of the power supply. Recommended loading factor is 60% (without dimming).
- Product length per circuit shall not exceed maximum product length per circuit. If the product length per circuit exceeds the maximum, split into multiple circuits.
- To minimize voltage drop, select appropriate wire gauge / diameter and consider the cable length between PSU and the beginning of luminaire referring to the following table. If longer cable distances are required, use thicker wires or reduce the loading of the lighting fixtures in the circuit.



- (3) Cable length between PSU and the beginning of luminaire (m)

Model No.	Wattage	Cross section			
		Wire gauze	0.3 sq	0.5 sq	0.75 sq
LFUS-T* *-L27-DF-O	4.6 W / m	(2) Max. length per circuit	(3) Max. cable length between PSU and the beginning of luminaire, at (2) Max. length per circuit		
		5 m	7 m	11 m	18 m

※ The length of cable that can be connected varies depending on the voltage drop.