

# LFUS NEW



Karumaru Ikebukuro  
Location: Japan  
Architect office: Hashimoto Yukio Design Studio Inc.  
Lighting design: Illumination of City Environment, Ltd.  
Photo: Nacasa & Partners Inc.



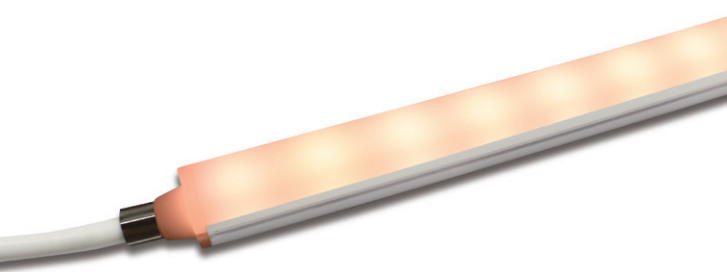
Tokyo Bay Shiomi Prince Hotel Sauna aria  
Location: Japan  
Architect office: Kume Sekkei Co., Ltd.  
Lighting design: Noosa Design Co. Ltd



Construction: Fujita Corporation  
Sauna design/Construction: THERMARIVM  
Photo: Yasuyuki Akiba

TRUSCO Resort Spa Karuizawa  
Location: Japan  
Architect office: NIKKEN SEKKEI LTD

Construction: KAJIMA CORPORATION  
Sauna Construction: AQUA ENTERPRISE  
Photo : Masao Suzuki, Studio Riki



# Luci UQ FLEX SAUNA

Pioneer of SAUNA linear LED lighting  
 Designed to withstand high temperatures and high humidity environments  
 Creates a unique and cosy lighting design in sauna  
 keeping privacy with indirect lighting at foot area

Outdoor

Strip Light

LFUS

Vivoxy FLEX IP67

UQ Sauna

UQ FLEX / UQ FLEX a IP67

Power FLEX EX IP65

Power FLEX IP65

Flat FLEX F IP65

FLEX a F IP65

## Specifications

### Dimensions

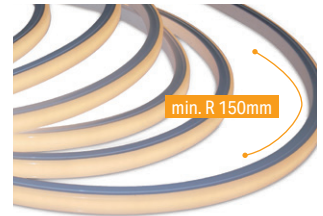
Cross section	W 16 x H 15 mm
Standard length	On stock Both sides feed cable with IP67 connector
	1000    500    250
Custom length	MOQ 10m Both sides feed or one side feed with IP67 connector
	Up to 5 m in 250 mm increment

### Color temperature

2700K

### Min Bending radius

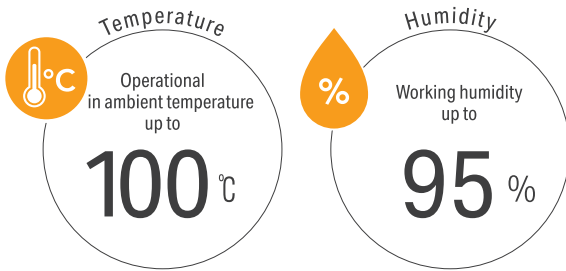
R 150mm in top bend (vertical direction)



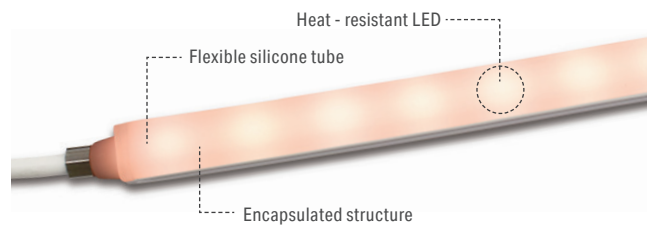
### Electrical & Output

Power Consumption (W/m)	4.6
Luminous flux @ 2700K (lm/m)	215

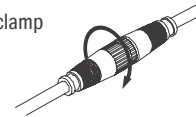
## Features



### Special material for high temperature and humidity



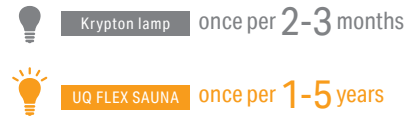
### Simple connection with screw clamp



### Lower frequency of maintenance!

The lifetime of LED is longer than the krypton lamp, therefore the manpower and cost of maintenance can be decreased.

Comparison of replacement frequency



with one year warranty

### Increased Safety!

The glass cover of krypton lamp might cause injury when broken but silicon-made UQ FLEX SAUNA never hurt you.

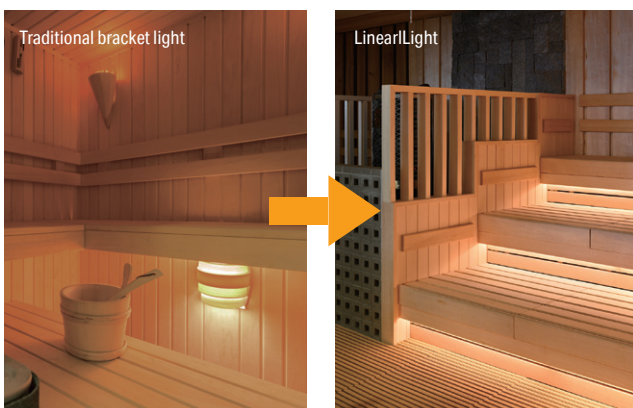


about Krypton

\*Krypton light is a glass light bulb filled with krypton gas.



### The benefits of using indirect lighting in sauna room



Sauna&Capsale AMZA / Location: Japan / Photo: Yasutake Kondo

### Available type of Sauna

- Traditional sauna Finnish sauna
- Steam sauna
- Dry sauna
- Steam bath or Turkish bath
- Infrared therapy sauna
- Hot Yoga studio

\*When installing the LED fixture in an extremely high-temperature areas such as a near hot-air outlet or the ceiling, please make sure that the environment temperature does not exceed the fixture specification in advance.

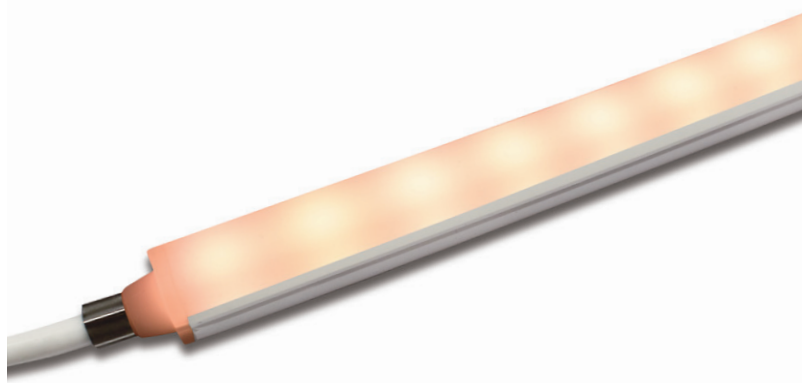


MEGALOS Koiva / Location: Japan / Lighting design: DAIKO ELECTRIC CO., LTD. / Photo: Nomura Real Estate Life & Sports Co., Ltd.



Tokyo Bay Shiomi Prince Hotel Sauna aria

# LFUS NEW



Color management  
ANSI BIN



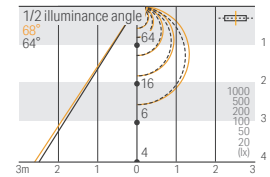
- High-temperature & humidity resistance, IP67
- Covered with silicone, top-bend semi-diffused lighting

Model No. / Standard item

**LFUS - T**      **S** - **L27** - **DF** - **O**

Product Name	Length	Lead wire	Feed direction	Light source color	Tube type	Environment
LFUS	Custom order length P.175	W: Both ends S: One end	S: Straight	L27: Warm white 2700K	DF: Diffuser	O: Outdoor

Light Intensity Refer to P.175



Specification / Standard length

Size	L	O250	O500	1000
Model No.		LFUS-T0250WS-L27-DF-O	LFUS-T0500WS-L27-DF-O	LFUS-T1000WS-L27-DF-O
Wattage		1.2 W	2.3 W	4.6 W
Fitting length	Y	290 mm	540 mm	1040 mm
Weight		120g	200g	380g
Luminaire efficacy(2700K)		46.8 lm/W	46.8 lm/W	46.8 lm/W

Light source color - = N/A, \*=Calculated value

D	7100K	—	—	—	
N	5000K	—	—	—	
W	4000K	—	—	—	
WW	3500K	—	—	—	
L30	3000K	—	—	—	
L27	2700K	Ra 83	○ 54 lm*	○ 108 lm	○ 215 lm*
L24	2400K	—	—	—	
L21	2100K	—	—	—	
L19	1900K	—	—	—	

\*Specification may be subject to change without announcement.  
The optical data provided on each product pages are for reference only;  
the data values are not guaranteed. Please use as reference material for your planning.

### General Specification

Input voltage	DC24V
Environment	Indoor, Outdoor
Max. length per circuit	5 m
Min. bending range	R 150 mm
Material (body)	Silicone
Material (clip)	SUS
Material (rail)	Aluminium
Accessories	① Mounting clip ② Mounting rail ③ Hold Clip ④ Joint plate ⑤ Power supply cable ⑥ Joint cable
Certification	JISCO920, IP67
Ambient temperature	0°C ~ +100°C (Working humidity up to 95%)
Certification	CE
Dimmable	Yes (0-10V/1-10V, DMX, DALI, PWM)
Power Supplies	Required

Warranty period: One year \*

\*If the usage time per day exceeds for more than 20 hours, the warranty period is half of the period mentioned above. For further detail of warranty, please contact Luci sales.

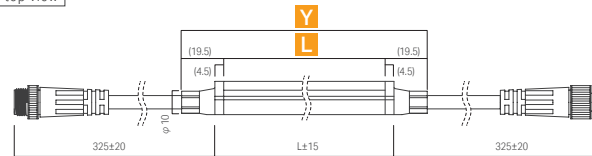
### Max. connectable length per power supply

Length of LED fixture (60% loading factor) *: split into multiple circuits	Power supply
~ 6.5 m*	50W power supply
~ 13.0 m*	100W power supply
~ 19.6 m*	150W power supply

### External dimensions

Both ends lead wire

top view



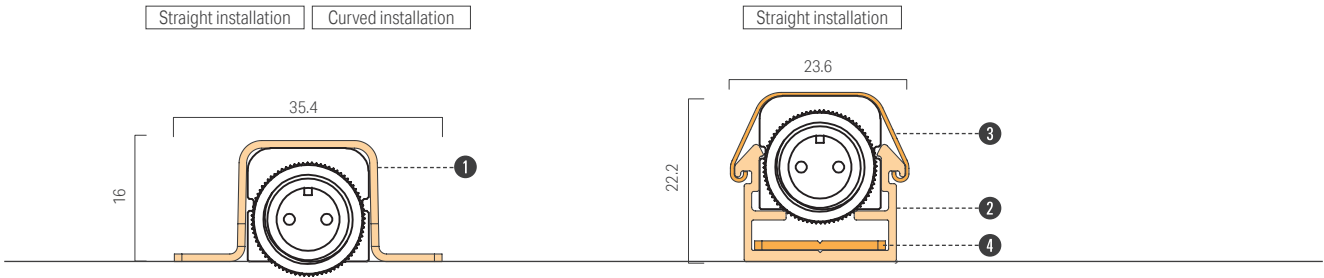
side view



side view



## Cross sectional view when installing optional items



## Option parts

**1** SUS Mounting clip for UQ FLEX (5pcs / bag)  
Model No : LFU-RC-B  
For curved or straight installation

length(mm)	number
L250 or less	2
L260 ~ L500	2
L510 ~ L1000	5
L1100 ~ L2000	10
L2100 ~ L3000	15
L3100 ~ L4000	20
L4100 ~ L5000	25

Any dark spot doesn't appear in indirect light as the light is diffused by tube even when using SUS clip or SUS rail clip.



**2** Aluminum mounting rail 950 set for UQ FLEX  
Model No : LFU-RL0950-AL-C  
**3** SUS hold clip (5pcs) and **4** Joint plate (1pc) are included

**3** SUS hold Clip for UQ FLEX aluminum rail (5pcs / bag)  
**Attachments for 2**  
Model No : LFU-PT-C  
For holding LED fixture in the mounting rail  
For extra order, 5pcs / bag

**4** Joint Plate for UQ FLEX aluminum rail (1pc / bag)  
**Renewal** **Attachments for 2**  
Model No : LFU-PT-E  
To joint two **2** Aluminum mounting rail in straight  
For extra order, 1 pc

**5** Power supply cable 10M for UQ FLEX **Required**  
Model No : CAD-V010M-FPNN-O  
Connector cap (1 pc) is attached  
Required for each circuit of LED fixture  
\* to avoid water intrusion from the terminal connector of LED fixture

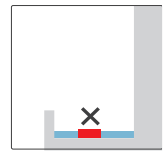
RED : +  
BLACK : -

**6** Joint cable 1M for UQ FLEX  
Model No : CAD-1000-MPPF-O  
For joint two fixtures apart from each other

## Prohibited installation places

- pooling water
- liquids including chlorine or chemicals
- coastal areas which are affected by sea spray
- where sulfide gas is contained in the air such as hot spring

**Caution**  
Do not cut the LED fixture and the lead wire of outdoor product at a job site.  
Please do appropriate treatment for the lead wire and connector of the terminal of outdoor LED fixture.



## 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 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.

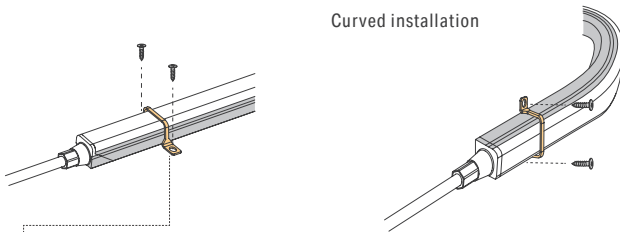
Please make sure to install the power supply in an appropriate environment according to the instruction manual of the power supply.

When installing the LED fixture in a high-temperature spot such as a near hot-air outlet or ceiling, please make sure that the environment temperature does not exceed the fixture specification in advance.

# Luci UQ FLEX SAUNA

## Installing the product

### Installation with Mounting clip



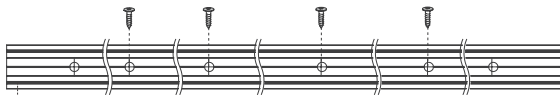
- ① SUS Mounting clip for UQ FLEX (5pcs / bag)  
Model No : LFU-RC-B

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

Recommended number of mounting clip as below.

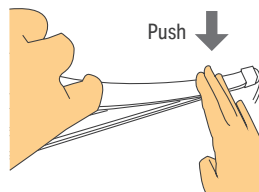
length(mm)	number
L250 or less	2
L260 ~ L500	2
L510 ~ L1000	5
L1100 ~ L2000	10
L2100 ~ L3000	15
L3100 ~ L4000	20
L4100 ~ L5000	25

### Installation with Mounting rail



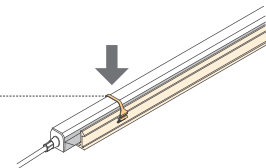
- ② Aluminum mounting rail 950 for UQ FLEX  
Model No : LFU-RL0950-AL-C

- ① Fix the aluminum rail by screws supplied by installer  
(Pan head screw M4 recommended).

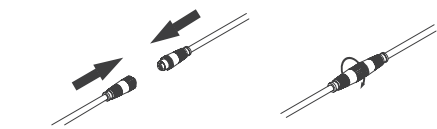


- ② Hold one side of the LED fixture and push on the other side, the LED fixture will gradually enter the aluminum rail.

- ③ SUS hold Clip for UQ FLEX aluminum rail (5pcs / bag)  
Attachment for ②  
Model No : LFU-PT-C



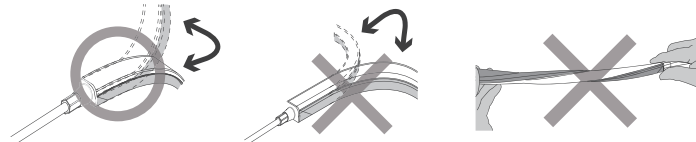
- ③ Push the SUS hold clip (LFU-PT-C) until click sound and make sure it is securely locked. SUS hold clip is recommended in the environment where requires durability.



- ④ Ensure the pinholes in the connectors are positioned correctly before joining them.  
To fasten, rotate the metallic knobs until tightened.

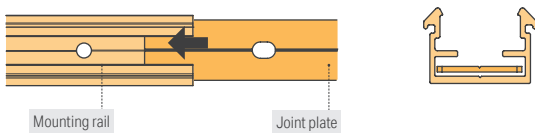
### Caution

Caution: Do not bend the LED fixture to side direction against light-emitting surface and twist. If it is bent wrongly, FPC will be damaged and the LED fixture will not turn on.

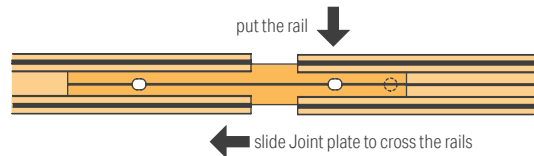


### Installation with mounting rail (When the length of the LED fixture is longer than 1m)

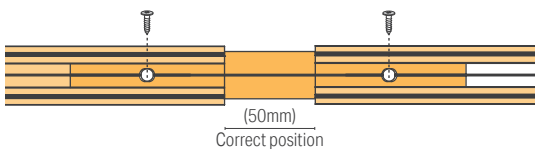
- ① When two or more rails are installed in a straight line, insert the Joint plate into bottom of the rail.



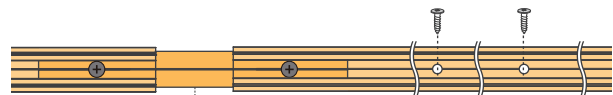
- ② Put the second rail and slide the Joint plate as below.



- ③ Fix the holes of rails and plate altogether by screws.



- ④ Fix the holes of second rail for installation like ③.



- ④ Joint plate for UQ FLEX AL rail C  
Attachment for ②  
Model No : LFU-PT-E

### Caution

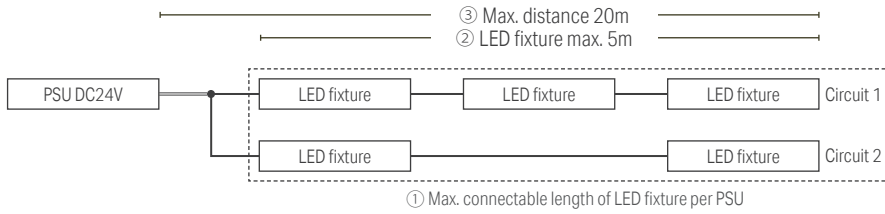
When inserting the LED fixture into the rail, do not press with excessive force, and exercise caution not to damage the LEDs, electronic components, board, and other parts with your fingers or a tool. There are high risk of LED unlighted, wire breakage and other failure occurring due to above improper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

### Caution

The unenclosed connector at the terminal of UQ FLEX 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.

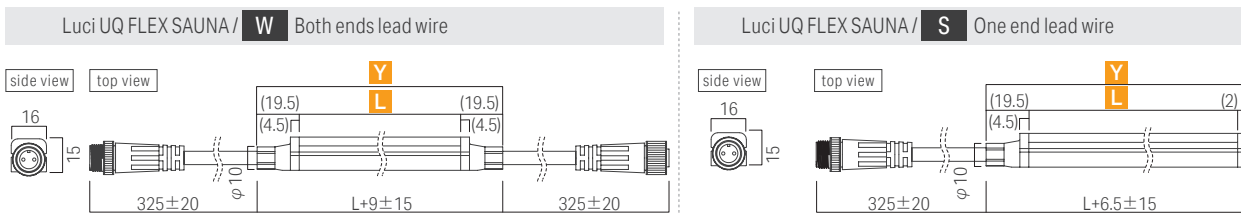


## System configuration diagram



- ① Max. connectable total length of LED fixture per power supply depends on capacity of power supply. Recommended loading factor: 70% (without dimming) or 60% (with dimming)
- ② If connectable length of LED fixture per circuit exceeds the maximum, please split into multiple circuit.
- ③ To avoid voltage drop, please consider the max. distance from power supply to the end of LED fixture. (i.e. total cable length plus LED fixture length)

## External dimensions / Custom order MOQ: 10 m



**L Y** as below 'Custom order product size'

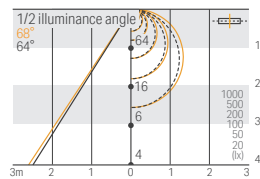
## Custom order products size

Length	External size (mm)		Power consumption (W)
	Both ends lead wire (WS)	One end lead wire (SS)	
0250	290	272	1.2
0500	540	522	2.3
0750	790	772	3.5
1000	1040	1022	4.6
1250	1290	1272	5.8
1500	1540	1522	6.9
1750	1790	1772	8.1
2000	2040	2022	9.2
2250	2290	2272	10.4
2500	2540	2522	11.5

Length	External size (mm)		Power consumption (W)
	Both ends lead wire (WS)	One end lead wire (SS)	
2750	2790	2772	12.7
3000	3040	3022	13.8
3250	3290	3272	15.0
3500	3540	3522	16.1
3750	3790	3772	17.3
4000	4040	4022	18.4
4250	4290	4272	19.6
4500	4540	4522	20.7
4750	4790	4772	21.9
5000	5040	5022	23.0

## Direct horizontal surface light intensity distribution chart

LFUS-T1000 □ S-L27-DF-0  
 Light source color 2700K  
 Brightness 64 cd  
 Luminous flux 215 lm  
 Color rendering index Ra 83



## Recommended dimensions and illumination distribution

