



# Luci FLEX α F IP65

## LFXF-0

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Private residential, Singapore  
Location: Singapore Distributor: LKH

## Application

### Step & Bench



CLASSY HOUSE CHIYODA FUJIMI  
Location: Japan Architect office: Nikken Housing System Ltd.

### Step



Image

### Handrail



Image



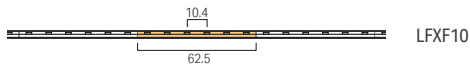
# Luci FLEX α F IP65

Side bend flexible strip with clear or diffused soft acrylic tube  
Only 4mm thickness with side view LED package,  
suitable for limited space installation  
Customized length available up to 5m per roll

## Specifications

### Dimensions

LED pitch and unit length (mm)



**Cross section** W 10 x H 4 mm  
**Standard length** 1m with both ends IP67 connector  
**Custom order** up to 5m length at every unit length with both ends or one end feed cable with IP67 connector  
Do not allow to cut the LED fixture and cable at site.

### Electrical & Output

Model	LFXF10
Power Consumption (W/m)	3.9
Luminous flux @ 3000K (lm/m)	302

### Color temperature

4200K	3500K	3000K	2700K
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### Min Bending radius

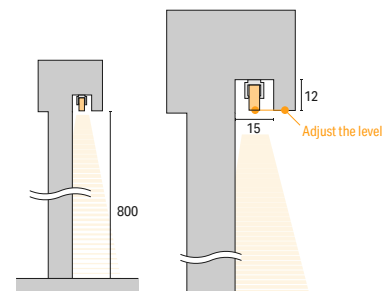
R 50mm in side (horizontal) bend direction



## Features

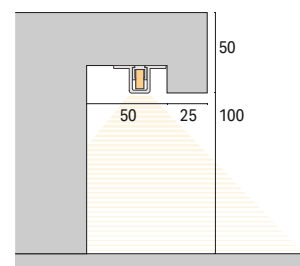
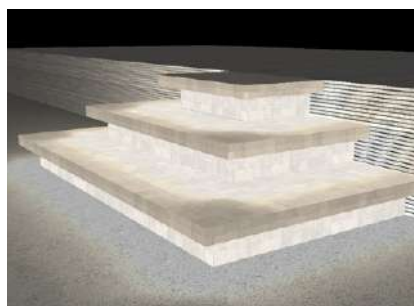
### Handrail

It is ideal for handrail lighting, thanks to its compact 4 x 10mm cross-section, which allows seamless integration into handrails without being intrusive. Its slim and flexible design provides uniform illumination along pathways, improving both aesthetics and safety. The luminaires can be connected in series for up to 5 meters, making them suitable for continuous lighting applications. Additionally, customizable cable lengths allow for easy installation through posts or walls, ensuring a clean and professional setup tailored to site requirements. This lighting solution is perfect for staircases, corridors, walkways, public spaces, bridges, and accessibility handrails, where discreet yet effective lighting enhances visibility and safety.



### Step light

An excellent choice for step lighting, providing discreet yet effective illumination that enhances both safety and aesthetics. Its compact 4 x 10mm design allows for seamless integration into stair edges or risers. This ensures improved visibility in low-light conditions while adding a refined architectural touch. With the ability to be connected in series for up to 5 meters and customized cable lengths for flexible installation through walls or posts, it is a versatile and practical solution for various stairway designs. Ideal applications include theaters, cinemas, hotels, commercial buildings, residential staircases, public walkways, and outdoor steps, where subtle yet functional lighting enhances safety and ambiance.



### Contour & Curved Light

The compact size of the Luci FLEX α F IP65 (LFXF-O) allows for the smallest outdoor side bends, making it ideal for applications where tight curves and precise installation are required. Its ultra-slim profile enables seamless integration into narrow spaces and intricate architectural details, ensuring a clean and modern lighting effect.

With its ability to bend efficiently in outdoor settings, it is perfect for curved handrails, architectural contours, signage, and edge lighting, providing consistent and uniform illumination without visible gaps or harsh light interruptions. This flexibility enhances both design versatility and installation ease, making it a reliable solution for outdoor accent lighting in commercial and residential environments.



# LFXF-0

Color management  
ANSI BIN



3 years  
warranty

- Flexible strip with bending sideways
- Customised length available up to 5m per roll, 62.4mm increments
- Covered with soft acrylic tube



Model No.

**LFXF10**

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**0**

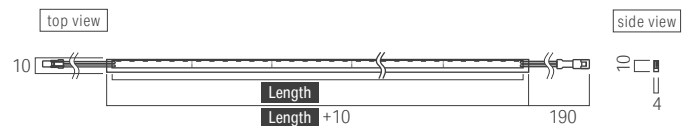
Product Name / LED Pitch	Length	Lead wire	Light source color	Tube type	Environment
LFXF10 : 10.4mm	Custom order length	W : Both ends S : One end	W : 4000K WW : 3500K L30 : 3000K L27 : 2700K	CL : Clear DF : Diffuser	O : Outdoor

## Specification @ Clear cover

Power consumption	3.9W/m
Weight (g)	40g
Luminaire efficacy (lm/W) @2700K	64.6 lm/W
Light source color (Code)	Luminaire flux (lm/m)
W 4200K Ra 70	330 lm/m*
WW 3500K Ra 75	281 lm/m*
L30 3000K Ra 70	302 lm/m*
L27 2700K Ra 71	252 lm/m

\* = Equivalent

## External dimensions



## Custom order length

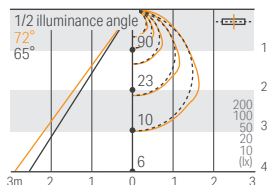
Corresponds to **Length** of Model No. and External dimensions

0063	0563	1063	1563	2063	2563	3063	3563	4063	4563
0125	0625	1125	1625	2125	2625	3125	3625	4125	4625
0188	0688	1188	1688	2188	2688	3188	3688	4188	4688
0250	0750	1250	1750	2250	2750	3250	3750	4250	4750
0313	0813	1313	1813	2313	2813	3313	3813	4313	4813
0375	0875	1375	1875	2375	2875	3375	3875	4375	4875
0438	0938	1438	1938	2438	2938	3438	3938	4438	4938
0500	1000	1500	2000	2500	3000	3500	4000	4500	5000

## General Specification

Input voltage	DC24V
LED beam angle	120°
Environment	In/Outdoor (no condensation) IP65
Max. length per circuit	5m
Min. bending range	R50mm
Material (body)	Soft acrylic
Certification	CE
Dimmable	Yes (0-10V/1-10V, DMX, DALI, PWM)

## Light distribution curve



LFXF10-T1000W-L27-CL-O  
Light source color 2700K  
Brightness 90 cd  
Luminous flux 252 lm  
Color rendering index Ra 71

## More detail

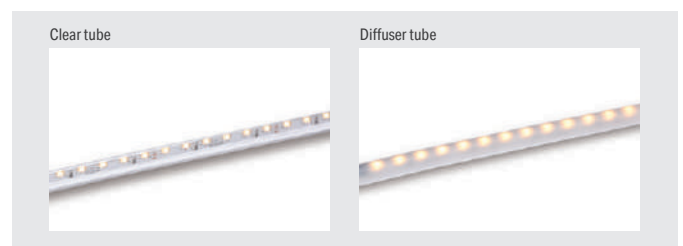


- Spec sheet
- Specification Drawing
- Product Drawing
- IES file
- Illuminance data
- Installation manual

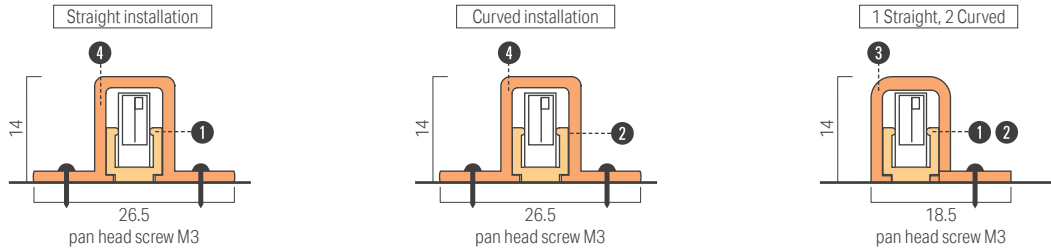
## Color temperature of diffuser tube type

Nominal light source color temperature (Clear tube)	Color temperature through Diffuser tube *
W 4200 K	3800 K
WW 3500 K	3300 K
L30 3000 K	2900 K
L27 2700 K	2500 K

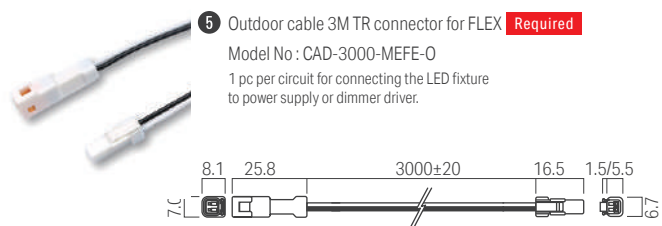
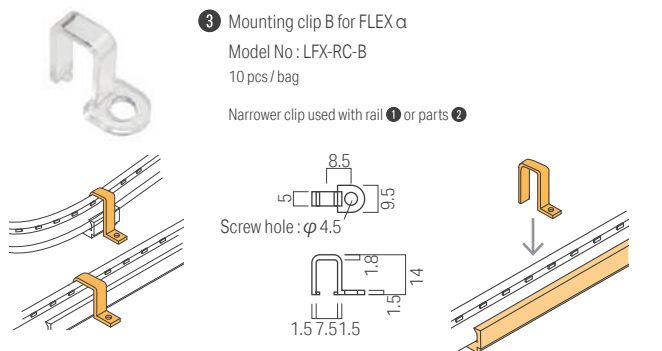
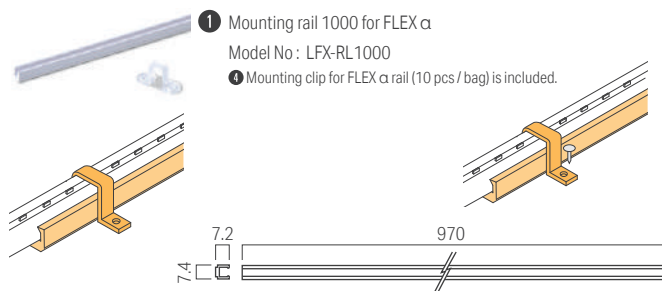
\*The optical data provided above is for reference only. Due to the tolerances of the production process, values for color temperature can vary  $\pm 10\%$ . The lumen output value of the diffuser tube type is 20~30% less than the clear tube type.



## Cross sectional view with accessories



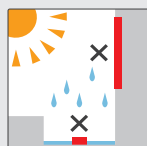
## Accessories



## Prohibited installation places

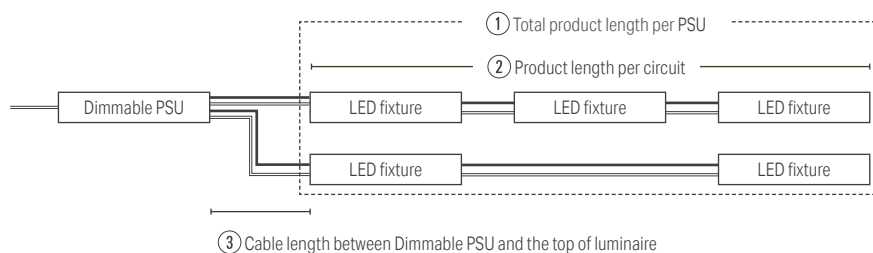
Do not cut the LED fixture and the lead wire of outdoor product at a job site.  
Please do appropriate treatment for the lead wire and connector of the terminal of outdoor LED fixture.

- direct expose to water / pooling of water
- direct sunlight
- liquids including choline or chemicals
- high temperature and high humidity such as saunas
- coastal areas which are affected by sea spray



# Luci FLEX α F IP65

## System configuration diagram



- ① Total product length per Dimmable PSU depends on capacity of the Dimmable PSU. Recommended loading factor is 70% (without dimming) or 60% (with dimming).
- ② 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.
- ③ To minimize voltage drop, select appropriate wire gauge/diameter and consider the cable length between Dimmable PSU and the top of luminaire referring to the following table. If longer cable distances are required, use thicker wires or reduce the loading of the LED fixtures in the circuit.

### Dimmer

Model No.	Size (mm) (L × W × H)	Refer to ▶
PX0408	140 × 50 × 26	P.234
DALI6010	168 × 39 × 30	P.234
DIM-S1L10V-0	175 × 56 × 28	P.232

### Dimmable PSU

Model No.	Size (mm) (L × W × H)	Refer to ▶
PWM-200-24	195 × 68 × 39.5	P.233
PWM-120-24	191 × 63 × 37.5	P.233
PWM-90-24	171 × 63 × 37.5	P.233
PWM-60-24	150 × 53 × 35	P.233
PWM-40-24	150 × 53 × 35	P.233

Dimmer & Dimmable PSU			PX0408 (8A × 4ch)-Use 1ch only	PX0408 (8A × 4ch)-Use 1ch only	PWM-200-24	PWM-120-24	PWM-90-24	PWM-60-24	PWM-40-24
			DALI6010 (10A × 1ch)	DALI6010 (10A × 1ch)					
			DIM-S1L10V-0 (10A × 1ch)	DIM-S1L10V-0 (10A × 1ch)					
			connectable up to 5A, when using 200W DC24V PSU as 60% load factor	connectable up to 3.75A, when using 150W DC24V PSU as 60% load factor	connect up to 140W as 70% load	connect up to 84W as 70% load	connect up to 63W as 70% load	connect up to 42W as 70% load	connect up to 28W as 70% load
Model No.	Wattage (W/m)	Max. length per circuit (m)	① Connectable length per Dimmable PSU (m)						
LFXF10-T**-*-CL-O	4.2	5	* Split into multiple circuit						
			28.5*	21.4*	33.3*	20*	15*	10*	6.6*

Luci FLEX α F IP65

LFY-I  
SHIN FLEX indoor

LFY-O  
SHIN FLEX IP65

LFTHY  
SHIN FLEX THOP®

LFAY  
SHIN FLEX α

LFXF-I  
FLEX α F indoor

LFXF-O  
FLEX α F IP65