



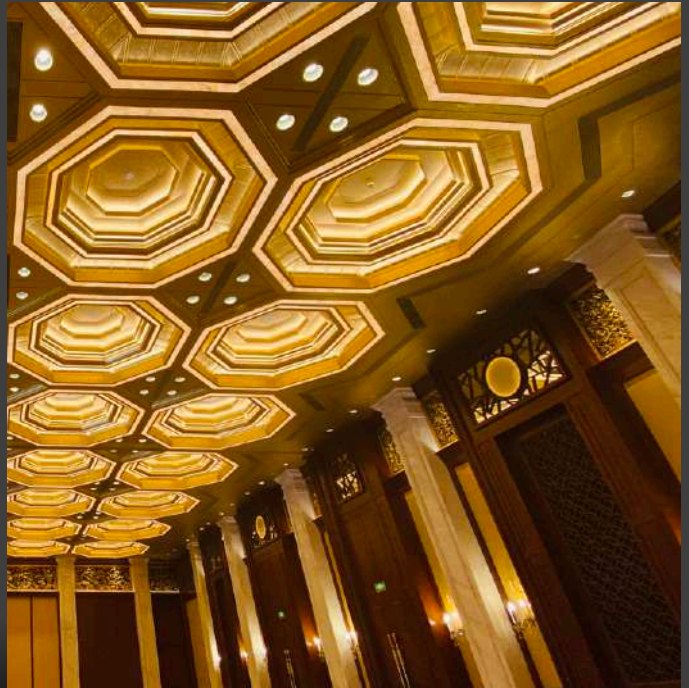
# Luci SHIN FLEX THOF LFTHY

**SHIN** series

# LFTHY **SHIN** series



FYC co., Ltd.  
Location: Japan Architect office: Construction, Photo: MAC OFFICE



Ito-Yokado Abeno  
Location: Japan Architect office: Yoshichu-Mannequin GRID Construction: Yoshichu-Mannequin Lighting Design: Luminous



## Application

### Counter



chagama Hong Kong  
Location: Hong Kong Client: MARUMO MORI Co., Ltd. Design: Sakai Design Associate

### Counter



Sumitomo Heavy Industries Group Office  
Location: Japan Architect office: Okamura Co. Nakai, Fujita Lighting design: Okamura Co. Nakai Construction: Sumitomo Realty & Development Photo: Okamura Co.



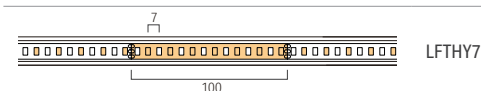
# Luci SHIN FLEX THOF®

Customisable up to 5M now  
For tunable white or Dim-to-Warm application  
Arranging 2 colors of LED package alternately  
Free to select 2 CCTs from 10 CCTs

## Specifications

### Dimensions

LED pitch and cuttable unit length (mm)

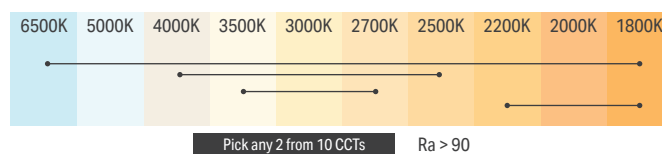


Cross section W 15 x H 4.5 mm

Custom order up to 5m lengths at every unit length with both ends or one end feed cable

Cuttable luminaire at site at scissor mark. If a luminaire with a both side feed cable is cut, the left and right sides of the luminaire can be used separately, as if the luminaire were one side feed.

### Color temperature



### Electrical & Output @NL27

Model		2	4	6	10	15
Power Consumption (W/m)		2.1	4.2	6.4	10.8	15.9
Luminous flux (lm/m)	5000K 100%, 2700K 100%	167	316	470	796	1120
	5000K 100%, 2700K 0%	149	282	419	711	1000
	5000K 0%, 2700K 100%	316	597	889	1507	2120
Luminous efficiency (L27)		150.4	142.1	138.8	139.5	133.3

### Min Bending radius

R 50mm in top (vertical) bend direction



## Features

### Two-Channel Control for Precision Dimming and Customizable Light Sequences



Requires 2 channels for operation, enabling simple dimming effects and customizable lighting patterns when used with compatible drivers and dimmers. This dual-channel control allows for precise brightness adjustment, creating smooth transitions and dynamic lighting effects tailored to different applications. By utilizing dimmers and drivers, users can achieve gradual dimming, flicker-free adjustments, and customized lighting sequences, enhancing ambiance and energy efficiency. This feature is particularly useful for architectural lighting, hospitality spaces, theaters, and retail displays, where adjustable lighting effects contribute to a sophisticated and adaptable atmosphere.

### Dual-CCT LED System Optimized for Tunable White and Dim-to-Warm Application

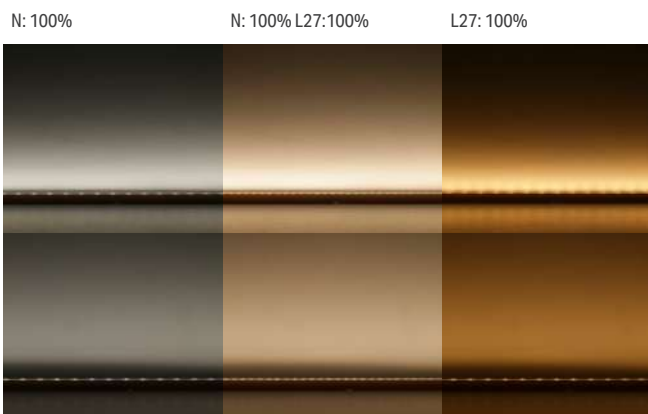
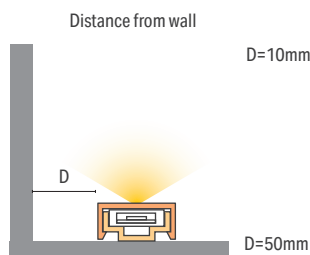


It can be installed within a profile, creating a sleek and refined lighting solution. It is customizable up to 5 meters. Designed for tunable white and dim-to-warm applications, this fixture features an alternating arrangement of two LED color packages, ensuring smooth and natural color transitions. Users can freely select two correlated color temperatures (CCTs) from a range of nine options, allowing for tailored lighting effects that enhance ambiance and adaptability in any space.

### Recommended distance

The distance from the wall is a key factor in ensuring smooth, uniform illumination. Due to its high-density LED arrangement and diffused lighting technology, the dotting effect is minimized, even when installed close to the wall.

For optimal performance, a recommended distance of more than 15mm to achieve 100% uniform illumination within the Neutral to 2700K color temperature range. This ensures a seamless, soft glow without visible hotspots or uneven brightness, making it ideal for architectural lighting, indirect wall illumination, cove lighting, and ambient accent lighting.



# LFTHY SHIN series

Color management  
MacAdam 3 step



L90>B10  
60K

- Customisable up to 5m
- For tunable white or Dim-to-Warm application
- Arranging 2 colors of LED package alternately
- Free to select 2 CCTs from 10 CCTs



Model No.

LFTHY7		-	T				-		-		-	CL	-	I	-								
Product Name / LED Pitch		-	Length				-	Lead wire		-	Light source color				-	Tube type		-	Environment		-	Wattage	
LFTHY7 : 7.1mm			Custom order length					W : Both ends S : One end			Select 2 CCTs D : 6500K L27 : 2700K N : 5000K L25 : 2500K W : 4000K L22 : 2200K WW : 3500K L20 : 2000K L30 : 3000K L18 : 1800K					CL : Clear			I : Indoor			2 : 2.1W/m 4 : 4.2W/m 6 : 6.4W/m 10 : 10.8W/m 15 : 15.9W/m	

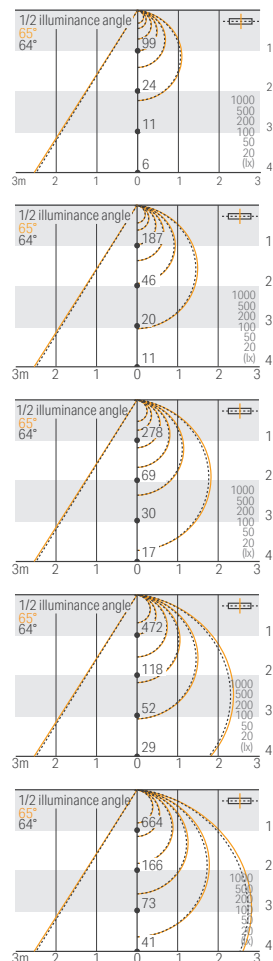
## Specification

Wattage (Code)	2	4	6	10	15
Wattage (W/m)	2.1	4.2	6.4	10.8	15.9
Weight	60g / 1011mm				
Cuttable unit	100 mm (14 LED)				

## General specification

Input voltage	DC24V
Environment	Indoor (no condensation)
Max. length per circuit	5m
Min. bending range	R50mm
Material	Soft acrylic
Certification	CE, PTB FREE
Dimmable	Yes (Tunable white driver is required)

## Light distribution curve



**LFTHY7-T1000-NL27-CL-I-2**  
Light source color 3500K equivalent  
N:100%, L27:100%  
Brightness 99 cd  
Luminous flux 315.9 lm  
Color rendering index Ra 95

**LFTHY7-T1000-NL27-CL-I-4**  
Light source color 3500K equivalent  
N:100%, L27:100%  
Brightness 187 cd  
Luminous flux 596.8 lm  
Color rendering index Ra 95

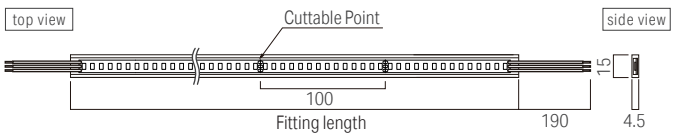
**LFTHY7-T1000-NL27-CL-I-6**  
Light source color 3500K equivalent  
N:100%, L27:100%  
Brightness 278 cd  
Luminous flux 888.3 lm  
Color rendering index Ra 95

**LFTHY7-T1000-NL27-CL-I-10**  
Light source color 3500K equivalent  
N:100%, L27:100%  
Brightness 472 cd  
Luminous flux 1506.3 lm  
Color rendering index Ra 95

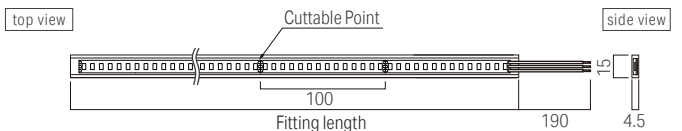
**LFTHY7-T1000-NL27-CL-I-15**  
Light source color 3500K equivalent  
N:100%, L27:100%  
Brightness 664 cd  
Luminous flux 2120 lm  
Color rendering index Ra 95

## External dimensions

### Both ends lead wire



### One end lead wire



## Custom order length

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

Length	Fitting length(mm)	Length	Fitting length(mm)	Length	Fitting length(mm)
0100	111	2100	2111	4100	4111
0200	211	2200	2211	4200	4211
0300	311	2300	2311	4300	4311
0400	411	2400	2411	4400	4411
0500	511	2500	2511	4500	4511
0600	611	2600	2611	4600	4611
0700	711	2700	2711	4700	4711
0800	811	2800	2811	4800	4811
0900	911	2900	2911	4900	4911
1000	1011	3000	3011	5000	5011
1100	1111	3100	3111		
1200	1211	3200	3211		
1300	1311	3300	3311		
1400	1411	3400	3411		
1500	1511	3500	3511		
1600	1611	3600	3611		
1700	1711	3700	3711		
1800	1811	3800	3811		
1900	1911	3900	3911		
2000	2011	4000	4011		

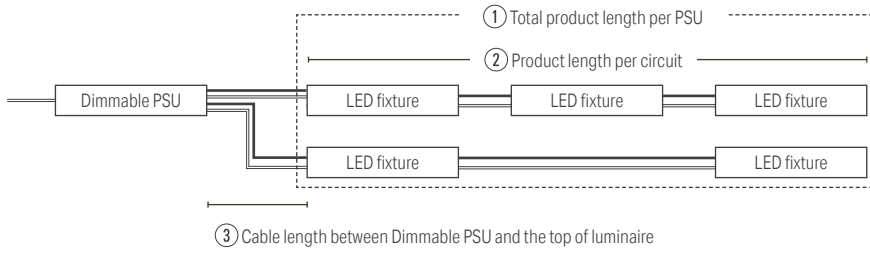
More detail



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



## 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)	Refet 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)	Refet 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 Dimmer & Dimmable PSU (m)						
			* Split into multiple circuit						
LFTHY-T**-**-I-2	2.1	5	57.1*	42.8*	66.6*	40*	30*	20*	13.3*
LFTHY-T**-**-I-4	4.2	5	28.5*	21.4*	33.3*	20*	15*	10*	6.6*
LFTHY-T**-**-I-6	6.4	5	18.7*	14*	21.8*	13.1*	9.8*	6.5*	4.3
LFTHY-T**-**-I-10	10.8	5	11.1*	8.3*	12.9*	7.7*	5.8*	3.8*	2.5
LFTHY-T**-**-I-15	15.9	5	7.5*	5.6*	8.8*	5.2*	3.9	2.6	1.7

Model No.	Wattage (W/m)	Cross section	0.3sq	0.5sq	0.75sq
		Wiregauge	AWG22	AWG20	AWG18
		② Max. length per circuit (m)	③ Max. cable length between PSU and the top of luminaire at ② Max. length per circuit (m)		
LFTHY-T**-**-I-2	2.1	5	10.4	16.6	26
LFTHY-T**-**-I-4	4.2	5	5.2	8.3	13
LFTHY-T**-**-I-6	6.4	5	3.4	5.5	8.7
LFTHY-T**-**-I-10	10.8	5	2.6	4.2	6.5
LFTHY-T**-**-I-15	15.9	5	2	3.3	5.2

CRI and luminous flux data for each CCT combination

Light source color	Inventory	Ratio of output				CRI	2.1W/m		4.2W/m		6.4W/m		10.8W/m		15.9W/m	
							lm/m	lm/W	lm/m	lm/W	lm/m	lm/W	lm/m	lm/W	lm/m	lm/W
D	L27	○	D	100%	L27	0%	94	168.4	149.4	141.1	139.7	139.7	139.7	139.7	1130	134.1
				100%		100%	94	317.4								
				0%		100%	96	149.0								
D	L20	○	D	100%	L20	0%	94	168.4	123.5	116.6	115.4	115.4	115.4	115.4	1130	110.8
				100%		100%	92	262.2								
				0%		100%	95	93.9								
N	L27	○	N	100%	L27	0%	92	166.9	148.7	140.5	139	139	139	139	1120	133.5
				100%		100%	94	315.9								
				0%		100%	95	149.0								
N	L20	○	N	100%	L20	0%	92	166.9	122.8	116	114.7	114.7	114.7	114.7	1120	110.2
				100%		100%	92	260.8								
				0%		100%	97	93.9								

○ = Device inventory

LFY-I  
SHIN FLEX Indoor

LFY-O  
SHIN FLEX IP65

LFTHY  
SHIN FLEX THOF®

LFAY  
SHIN FLEX α

LFXF-I  
FLEX α F Indoor

LFXF-O  
FLEX α F IP65