

Light is OSRAM

# OSRAM TEC Flex Tunable White IP66

Dynamic white light creates the mood as desired for dry and damp environments

TFP2000TW-G1



### Application areas

Cove lighting  
Shop lighting  
Ambient lighting, Dynamic lighting  
Dry and damp environments

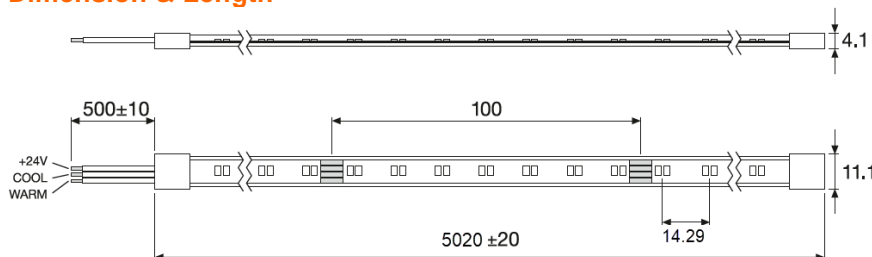
### Standards

CE, ENEC, RoHS

### Features & Benefits

- 24V Constant Voltage Dimmable IP66 LED strip
- High luminous flux up to 2000 lm/m
- Continuously dimmed between 2700-6500 K
- Single color bin in 3SDCM
- High Efficiency enabling energy saving also in general illumination
- Fast and reliable protection for accidental reverse power supply
- Robust ESD protection
- Improved self-adhesive backside for easy and reliable mounting on different surfaces
- Cables soldered one side for quick and safe installation
- Long lifetime: 50.000 hours
- 5 Years OSRAM Guarantee
- System solution in combination with OSRAM 24V Constant Voltage LED drivers, mounting accessories

### Dimension & Length



Lowest Bending Radius = 50mm

Number LED/m = 140

Pre-soldered wires on one side

### Electrical & Output data

Nominal Voltage	24.0 V
Accidental reverse voltage protection up to	25.0 V
Temperature range in operation @ Tc point	-25°C...+80°C
Storage Temperature	-30°C...+85°C
Ambient Temperature with profile **	-25°C...+50 °C

## General

<b>Dimmable</b>	Pulse width modulation (PWM)
<b>Dimming range</b>	1...100%
<b>Lifetime</b>	50.000 hrs (L70B50 & L80B10 at Tp rated)
<b>Adhesive tape on backside</b>	3M
<b>Complementary systems</b>	Profiles and covers, OPTOTRONIC drivers and dimmers
<b>Minimum bending radius</b>	5 cm
<b>Protection type</b>	IP66
<b>Classification acc. to IEC 62031</b>	Built-in

## REFERENCE DATA

TUNABLE WHITE	Color Temperature	CRI	lm/m	W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
TFP2000TW-G1-827.865-05	2700-6500K	>80	1820	13.5	135	55	5

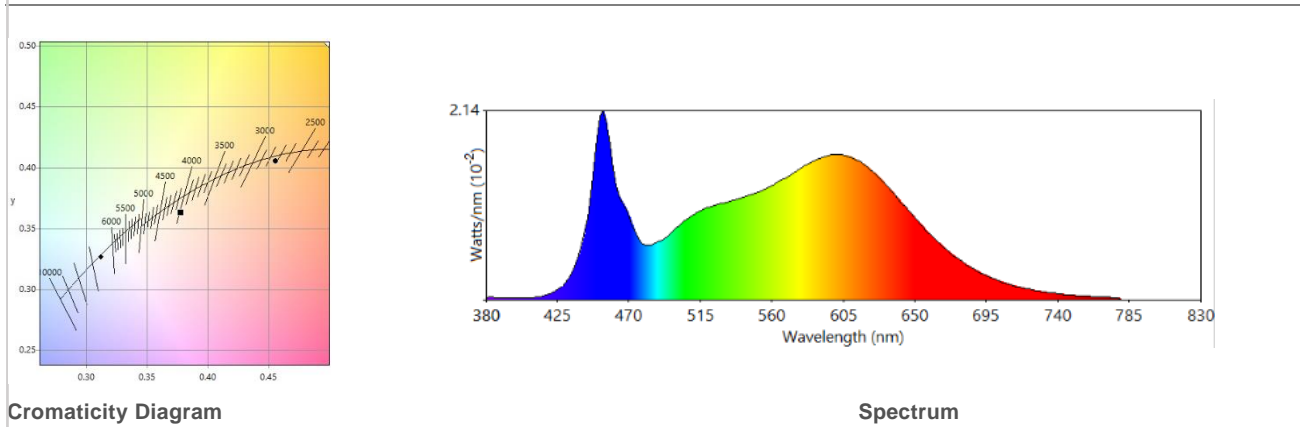
## REFERENCE DATA FOR CHANNEL

TUNABLE WHITE	BOTH CHANNELS 100% ON			CH1 = 100% ON, CH2 = OFF			CH1 = OFF, CH2 = 100% ON		
	CCT [K]	lm/m	W/m	CCT [K]	lm/m	W/m	CCT [K]	lm/m	W/m
TFP2000TW-G1-827.865-05	3965	1820	13.5	2715	920	7.0	6540	900	6.5

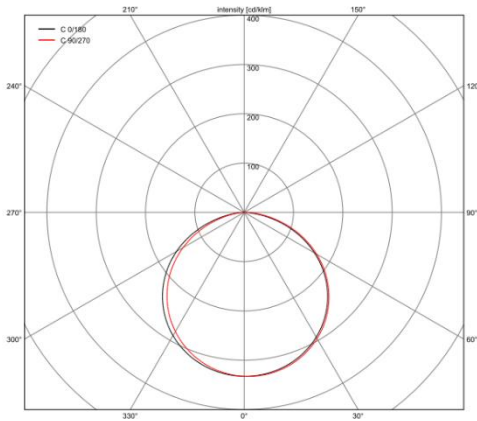
## Photometric Characteristics

### TFP2000TW-G1-827.865

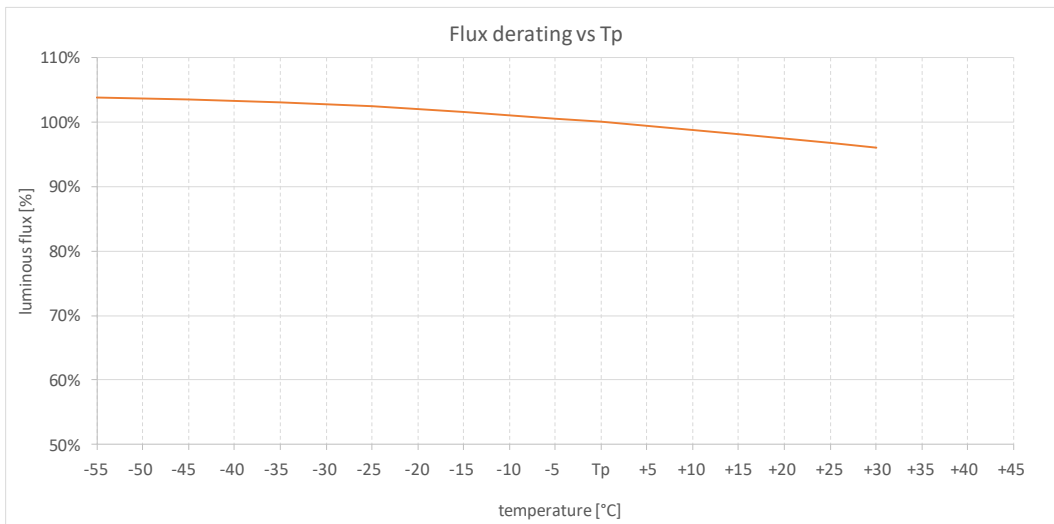
<b>Color Coordinates (CIEx, CIEy)</b>	(0.3778, 0.3627)
<b>CRI</b>	80
<b>R9 typical</b>	>0



### Light Distribution



### Luminous Flux vs Tp temperature
















**Note:** Light flux varies with the temperature measured @Tc point; nominal values is given @Tc = Tp. Flux increases when Tc decreases.

### Lumen maintenance for TEC Flex Protect Tunable White

Supply Voltage	Tp Temperature	L80B10	L80B50	L70B10	L70B50
24V	45°C	>50.000	>50.000	>50.000	>50.000
24V	55°C	>50.000	>50.000	>50.000	>50.000
24V	65°C	>50.000	>50.000	>50.000	>50.000
24V	70°C	>50.000	>50.000	>50.000	>50.000

## Profile System Combinations

Maximum recommended ambient temperature in case of surface mounting or recessed mounting.

TFP2000TW				Surface mounting	Recessed mounting
Type	Product Description	Product code (EAN)	Ambient Temperature °C		
	Slim Track	LF-LTS-2100	4008321978981	43	35
	Slim Track	FX-QMS-G1-TU15H6-300	4052899448865	45	40
	Slim Track	FX-QMS-G1-TU15H6W3-300	4052899448889	45	40
	Slim Track	FX-QMS-G1-TU16H12-300	4052899448964	45	40
	Slim Track	FX-QMS-G1-TU16H12W3-300	4052899448988	45	40
	Slim Track	FX-QMS-G1-TR19H16-300	4052899449008	45	40
	Slim Track	FX-QMS-G1-TU16H12LS-300	4052899449046	45	40
	Slim Track	FX-QMS-G1-T45D19H19-300	4052899448667	48	43
	Wide Track	FX-QMW-G1-TK30D46H27-300	4052899448827	50	50
	Wide Track	FX-QMW-G1-TU26H10-300	4062172114165	48	35
	Wide Track	FX-QMW-G1-TU26H25W10-300	4052899448773	50	40
	Wide Track	FX-QMW-G1-TU26H25W2-300	4052899448841	50	40
	Wide Track	FX-QMW-G1-TU26H25-300	4052899448803	50	40

**Note:** -the table is for application evaluation only; always ensure that Tc does not exceed the maximum allowed value.  
-compatibilities tested including cover, except for FX-QMS-TU15H6, FX-QMS-TU15H6W3; all channels 100% ON

## Order Code

Product description	Product code (EAN10)	Dimensions (length x width x height)	Package content
TFP2000TW-G1-827.865-05	4062172154260	280X 305X 180mm	10x Led strip

\*Each LED strip comes with 1 bottle of glue (5g), 10 endcaps, 40 screws, 20clips

**Note:** All TEC Flex LED strips are fully compatible with OSRAM OT and OTi LED drivers and dimmers.

---

## Disclaimer

Subject to change without notice. Errors and omission excepted. Make sure to use the most recent release. All values are average typical and cannot be used as reference for compliance tests. Always refer to the official data on web site: [www.osram.com](http://www.osram.com)

\*\* Always ensure that Tc will not exceed the maximum allowed value (e.g. suggested aluminum bar section: 8x2mm or equivalent).

OSRAM GmbH

Head Office:

Marcel-Breuer-Strasse 6  
80807 Munich, Germany  
Phone +49 89 6213-0  
Fax +49 89 6213-2020  
[www.osram.com](http://www.osram.com)

The OSRAM logo is displayed in a bold, orange, sans-serif font.