Light is OSRAM

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OSRAM TEC Flex Tunable White IP00

With dynamic light you can alter the perceptions of architectural and adapt the light to time and season changes

TF2000TW-G1

Application areas
Cove lighting
Shop lighting, Offices
Dynamic lighting applications

Standards
CE, ENEC, RoHS

Features & Benefits

— 24V Constant Voltage Dimmable 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 accidential 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 combination with OSRAM 24V Constant Voltage LED drivers, optional connectors, mounting accessories

Dimension & Length
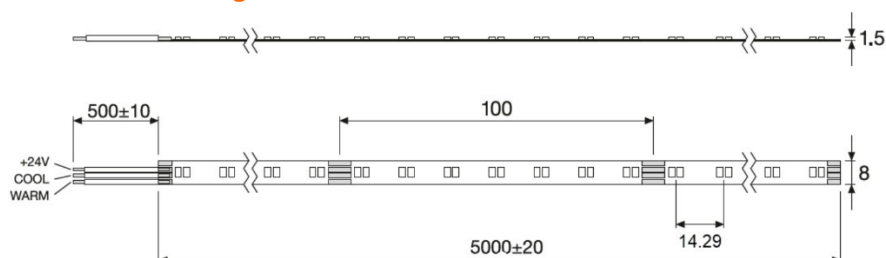
Lowest Bending Radius = 20mm

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

Technical data

Dimmable	Pulse width modulation (PWM)
Dimming range	1…100%
Lifetime	50.000 hrs (L70B50 & L80B10 at Tp rated)
Adhesive tape on backside	3M
Complementary systems	Connectors, Profiles and covers, OPTOTRONIC drivers and dimmers
Minimum bending radius	2 cm
Protection type	IP00
Classification acc. to IEC 62031	Built-in

REFERENCE DATA

TUNABLE WHITE	Color Temperature	CRI	lm/m	W/m	Luminous Efficacy lm/W	LEDs/m	Performance Temp. Tp °C	Length m
TF2000TW-G1-827.865-05	2700-6500K	>80	1940	13.5	144	140	50	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
TF2000TW-G1-827.865-05	4050	1940	13.5	2740	980	7.0	6800	960	6.5

Photometric Characteristics

TF2000TW-G1-827.865

Color Coordinates (CIEx, CIEy)	(0.3741, 0.3595)
CRI	80
R9 typical	>0

Cromaticity Diagram

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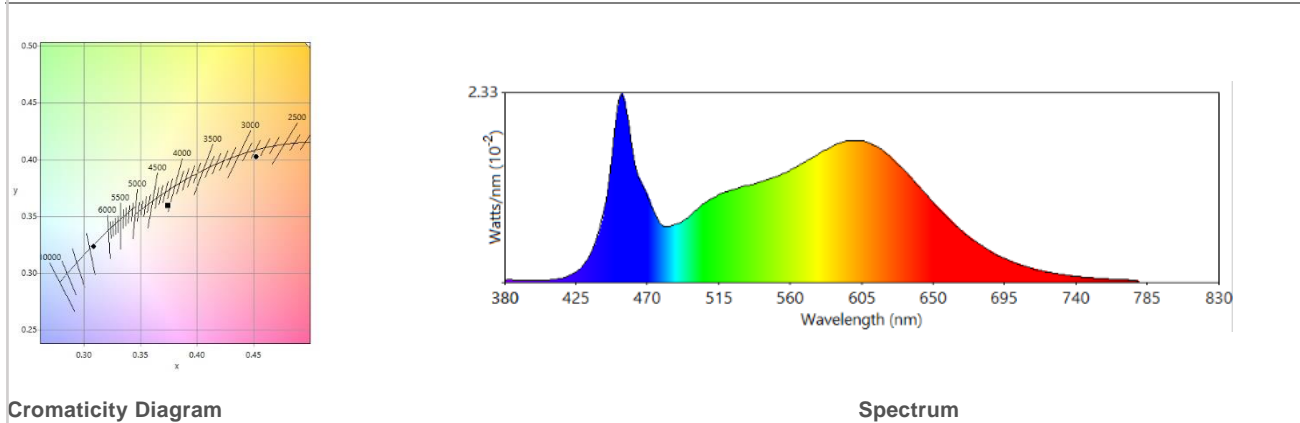
Light Distribution
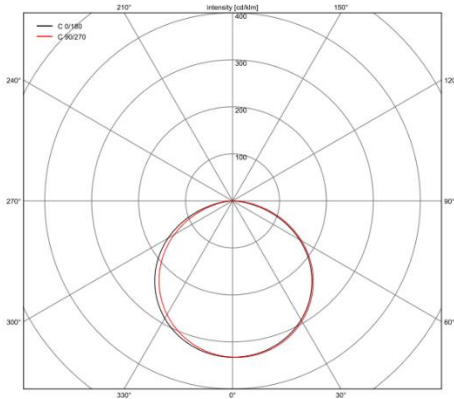
Luminous Flux vs Tp temperature
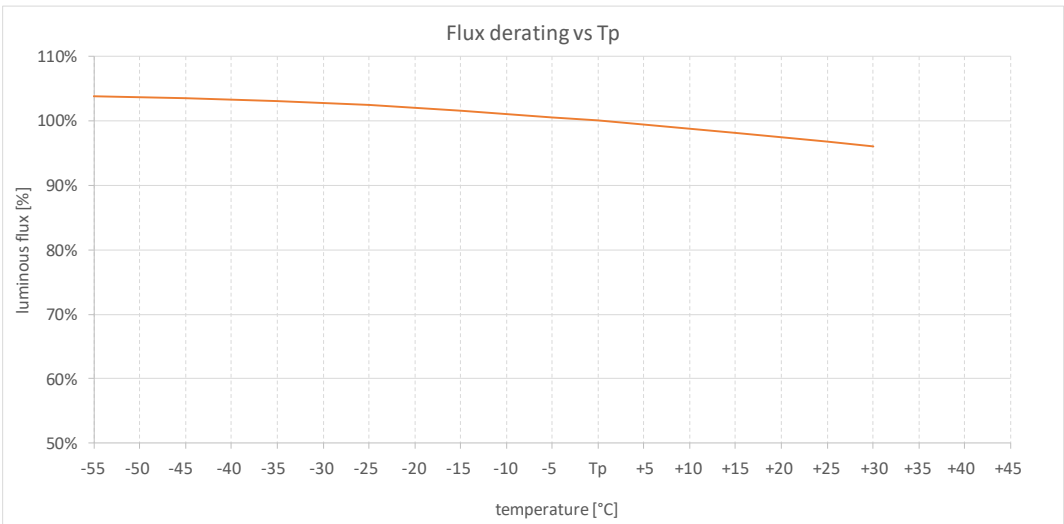
Note: Light flux varies with the temperature measured @Tc point; nominal values is given @Tc = Tp. Flux increases when Tc decreases.

Lumen maintenance for TEC Flex 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.

	Type	Product Description	Product code (EAN)	Surface mounting	Recessed mounting
		TF2000TW		**Ambient Temperature °C**	
	Slim Track	**LF-LTS-2100**	4008321978981	50	43
	Slim Track	**FX-QMS-G1-TU15H6-300**	4052899448865	50	43
	Slim Track	**FX-QMS-G1-TU15H6W3-300**	4052899448889	50	43
	Slim Track	**FX-QMS-G1-TU16H12-300**	4052899448964	50	45
	Slim Track	**FX-QMS-G1-TU16H12W3-300**	4052899448988	50	45
	Slim Track	**FX-QMS-G1-TR19H16-300**	4052899449008	50	45
	Slim Track	**FX-QMS-G1-TU16H12LS-300**	4052899449046	50	45
	Slim Track	**FX-QMS-G1-T45D19H19-300**	4052899448667	50	45
	Wide Track	**FX-QMW-G1-TK30D46H27-300**	4052899448827	50	50
	Wide Track	**FX-QMW-G1-TU26H10-300**	4062172114165	50	48
	Wide Track	**FX-QMW-G1-TU26H25W10-300**	4052899448773	50	48
	Wide Track	**FX-QMW-G1-TU26H25W2-300**	4052899448841	50	48
	Wide Track	**FX-QMW-G1-TU26H25-300**	4052899448803	50	48

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

Order Code

Product description	Product code (EAN10)	Dimensions (length x width x height)	Package content
TF2000TW-G1-827.865-05	4062172154246	225X 240X 120mm	10x Led strip

Choose your accessories

Product Type	Product description	Product code (EAN10)	Package content
Connector	**FX-SC08-G2-CT3PF-0500HF**	4052899482999	20x Connector (500mm wire)
Connector	**FX-SC08-G2-CT3PFE-0500HF**	4052899483026	20x Connector (500mm wire)
Jumper	**FX-SC08-G2-CT4PJ**	4052899464858	25x Jumper
Extension wire 30 mm	**FX-SC08-G1-FW4P-LIN-0030**	4008321875587	100x Extension wire 30 mm
Extension wire 150 mm	**FX-SC08-G1-FW4P-LIN-0150**	4008321875563	50x Extension wire 150 mm
Extension wire 300 mm	**FX-SC08-G1-FW4P-LIN-0300**	4052899469259	50x Extension wire 300 mm

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

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

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