

Light is OSRAM

# OSRAM TEC Flex Shortpitch IP00

Create seamless lines of light with no visible shadows thanks to the extremely narrow pitch distance

TF600S/1000S/1500S/2000S-G1



## Application areas

General Lighting in shopping malls, hotels, restaurants  
Residential installations  
Integration into coves, walls and aluminum profiles  
Light engine for luminaires

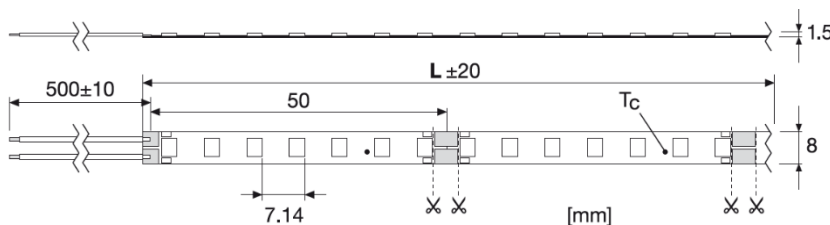
## Approvals

CE, ENEC, RoHS

## Features and Benefits

- 24V Constant Voltage Dimmable LED strip
- High homogeneity and uniform illumination due to 140LEDs
- Constant flux over length and power supply variations thanks to active IC on each single unit
- Luminous flux range: 600lm/m, 1000lm/m, 1500lm/m, 2000lm/m
- Color temperature: 2700K, 3000K, 3500K, 4000K, 5000K, 6500K
- Single color bin in 3SDCM
- High Efficiency LED strips enabling energy saving
- 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 combination with OSRAM 24V Constant Voltage LED drivers, optional connectors, mounting accessories

## Dimension & Length



Lowest Bending Radius = 20mm  
Number LEDs/m = 140  
Pre-soldered wires on one side

For lengths: see tables below

## Electrical & Output data

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

## Technical data

### GENERAL

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

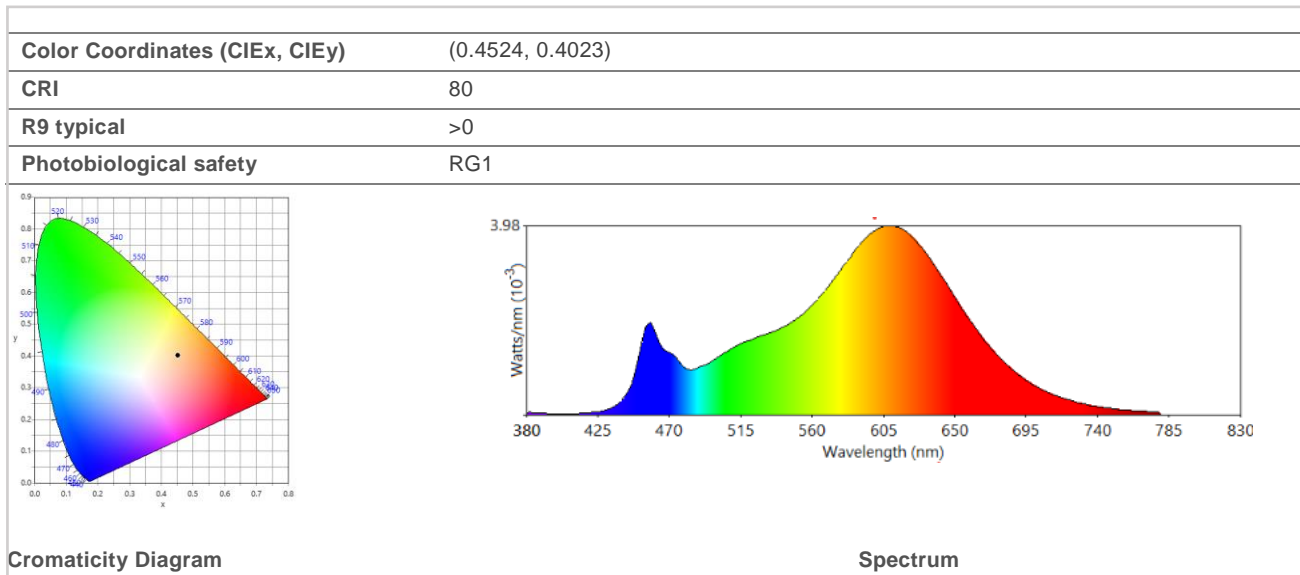
### REFERENCE DATA

TF Shortpitch		Nominal CCT*	CRI	lm/m	W/m	Luminous Efficacy lm/W	LEDs/m	Performance Temp. Tp °C	Length m
TF600S-G1-827	●	2700 K	>80	620	5.5	113	140	35	5
TF600S-G1-830	●	3000 K	>80	660	5.5	120	140	35	5
TF600S-G1-835	●	3500 K	>80	600	5.5	109.1	140	35	5
TF600S-G1-840	○	4000 K	>80	670	5.5	122	140	35	5
TF600S-G1-850	●	5000 K	>80	690	5.5	125	140	35	5
TF600S-G1-865	●	6500 K	>80	680	5.5	124	140	35	5
TF1000S-G1-827	●	2700 K	>80	1070	9	119	140	40	5
TF1000S-G1-830	●	3000 K	>80	1130	9	126	140	40	5
TF1000S-G1-835	●	3500 K	>80	1000	9	111.1	140	40	5
TF1000S-G1-840	○	4000 K	>80	1140	9	127	140	40	5
TF1000S-G1-850	●	5000 K	>80	1170	9	130	140	40	5
TF1000S-G1-865	●	6500 K	>80	1150	9	128	140	40	5
TF1500S-G1-827	●	2700 K	>80	1560	13.2	118	140	45	5
TF1500S-G1-830	●	3000 K	>80	1660	13.2	126	140	45	5
TF1500S-G1-835	●	3500 K	>80	1500	13.2	113.6	140	45	5
TF1500S-G1-840	○	4000 K	>80	1670	13.2	127	140	45	5
TF1500S-G1-850	●	5000 K	>80	1730	13.2	131	140	45	5
TF1500S-G1-865	●	6500 K	>80	1700	13.2	129	140	45	5
TF2000S-G1-827	●	2700 K	>80	1820	15.5	117	140	50	5
TF2000S-G1-830	●	3000 K	>80	1940	15.5	125	140	50	5
TF2000S-G1-835	●	3500 K	>80	2000	15.5	129	140	50	5
TF2000S-G1-840	○	4000 K	>80	1950	15.5	126	140	50	5
TF2000S-G1-850	●	5000 K	>80	2010	15.5	130	140	50	5
TF2000S-G1-865	●	6500 K	>80	2000	15.5	129	140	50	5

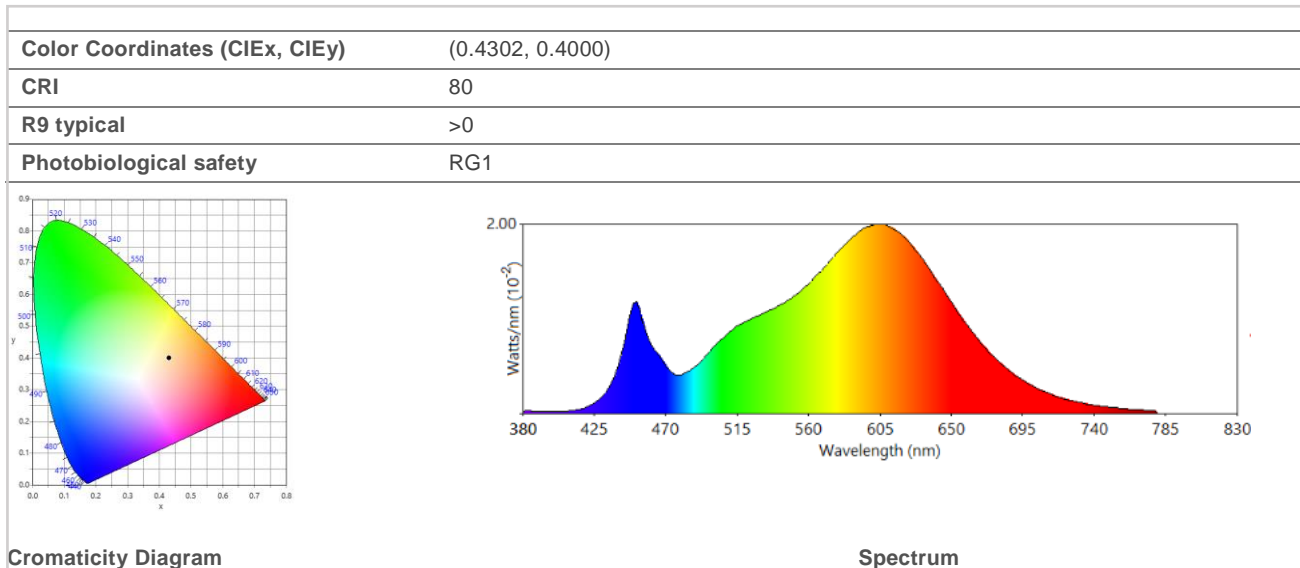
TF Shortpitch		Nominal CCT*	CRI	lm/m	W/m	Luminous Efficacy lm/W	LEDs/m	Performance Temp. T <sub>p</sub> °C	Length m
TF600S-G1-927	●	2700 K	>90	580	5.9	98.3	140	38	5
TF600S-G1-930	●	3000 K	>90	620	5.9	105.1	140	38	5
TF600S-G1-935	●	3500 K	>90	620	5.9	105.1	140	38	5
TF600S-G1-940	○	4000 K	>90	625	5.9	105.9	140	38	5
TF1000S-G1-927	●	2700 K	>90	1015	9.9	102.5	140	47	5
TF1000S-G1-930	●	3000 K	>90	1085	9.9	109.6	140	47	5
TF1000S-G1-935	●	3500 K	>90	1090	9.9	110.1	140	47	5
TF1000S-G1-940	○	4000 K	>90	1095	9.9	110.6	140	47	5
TF1500S-G1-927	●	2700 K	>90	1460	14.4	101.4	140	55	5
TF1500S-G1-930	●	3000 K	>90	1570	14.4	109.0	140	55	5
TF1500S-G1-935	●	3500 K	>90	1590	14.4	110.4	140	55	5
TF1500S-G1-940	○	4000 K	>90	1600	14.4	111.1	140	55	5
TF2000S-G1-927	●	2700 K	>90	1840	17.3	106.4	140	58	4
TF2000S-G1-930	●	3000 K	>90	1875	17.3	108.4	140	58	4
TF2000S-G1-935	●	3500 K	>90	1885	17.3	109.0	140	58	4
TF2000S-G1-940	○	4000 K	>90	1900	17.3	109.8	140	58	4

**Photometric Characteristics**

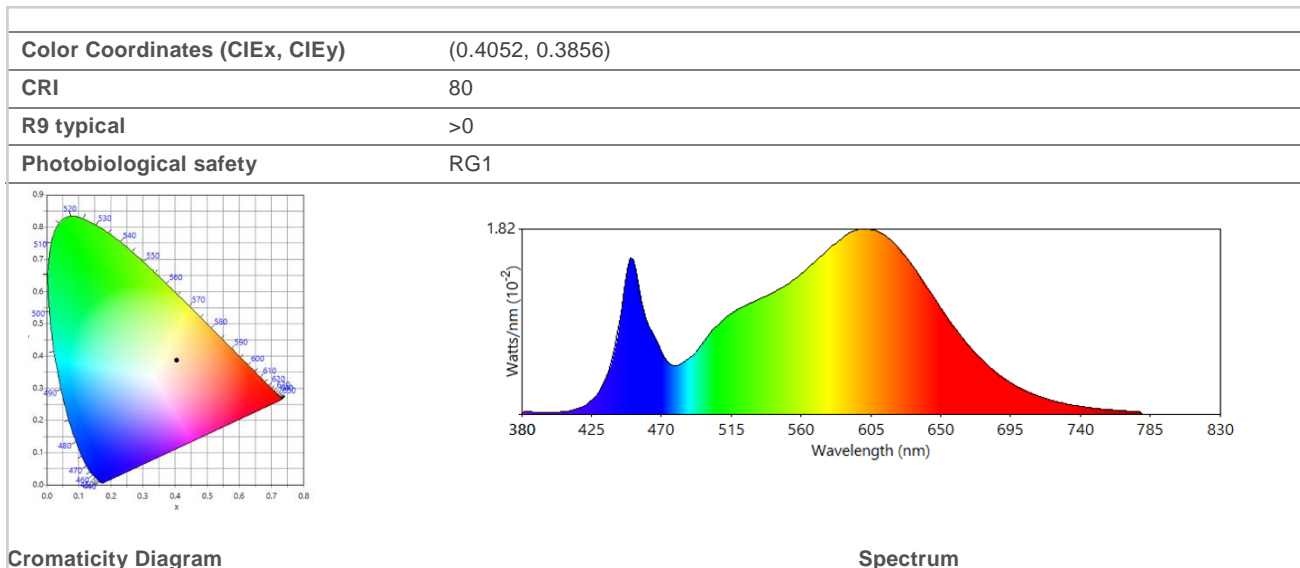
**TFx00S-G1-827**



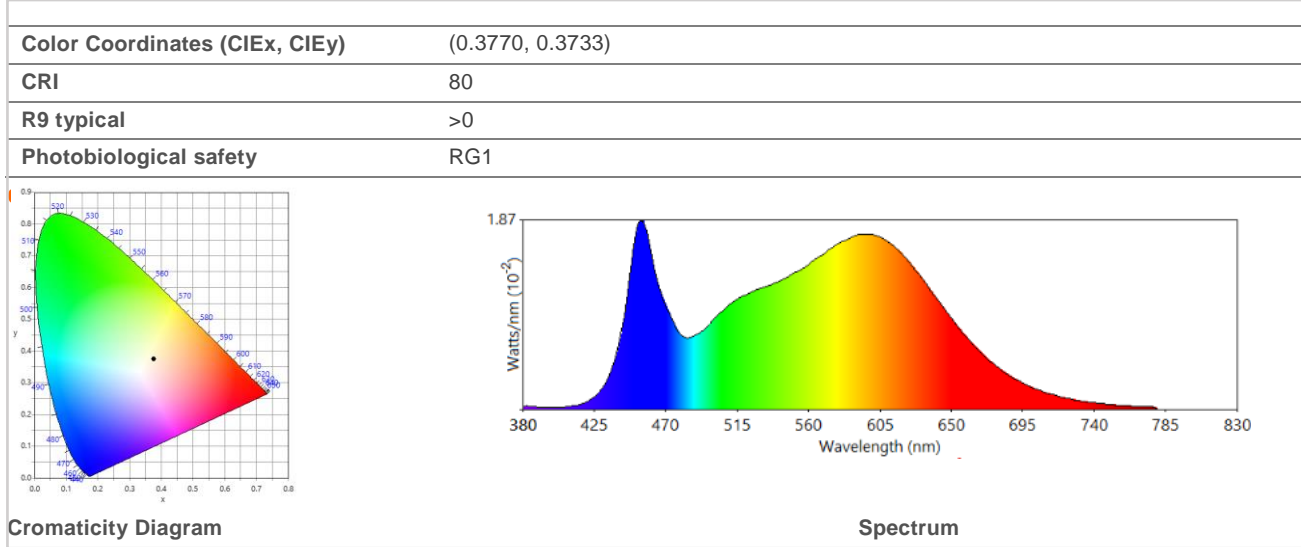
**TFx00S-G1-830**



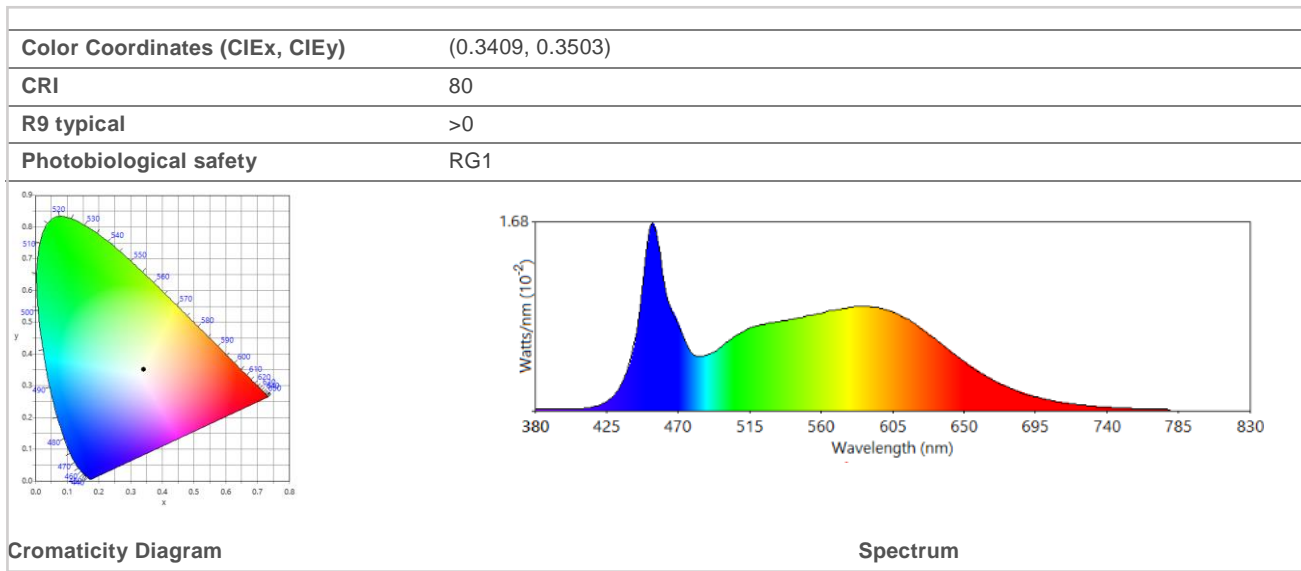
**TFx00S-G1-835**



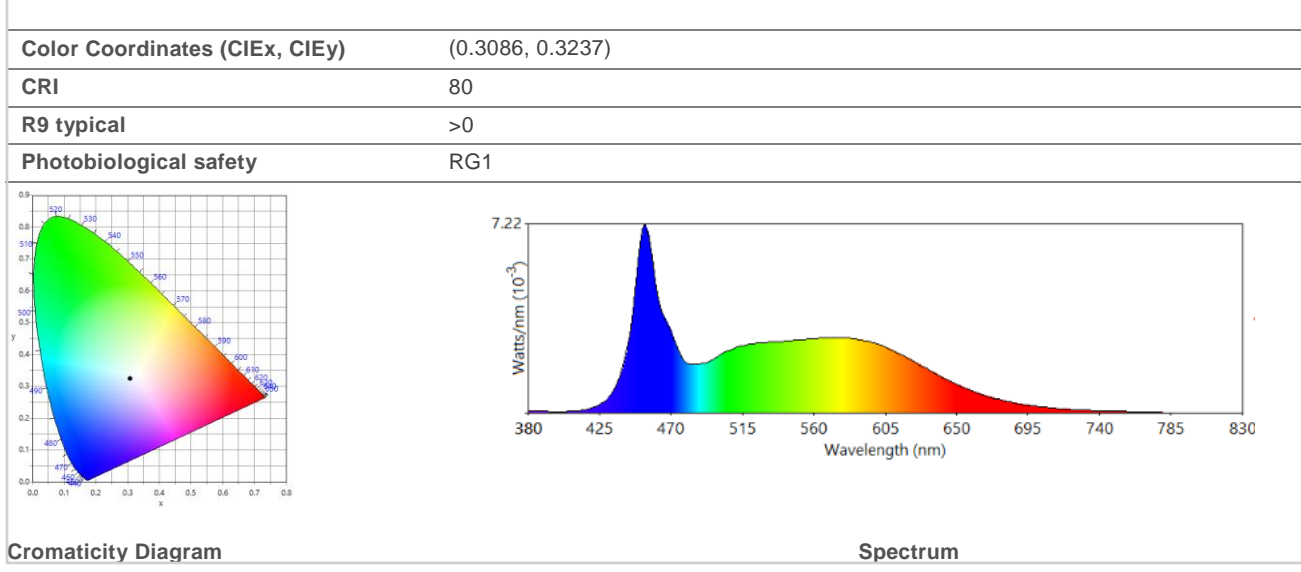
**TFx00S-G1-840**



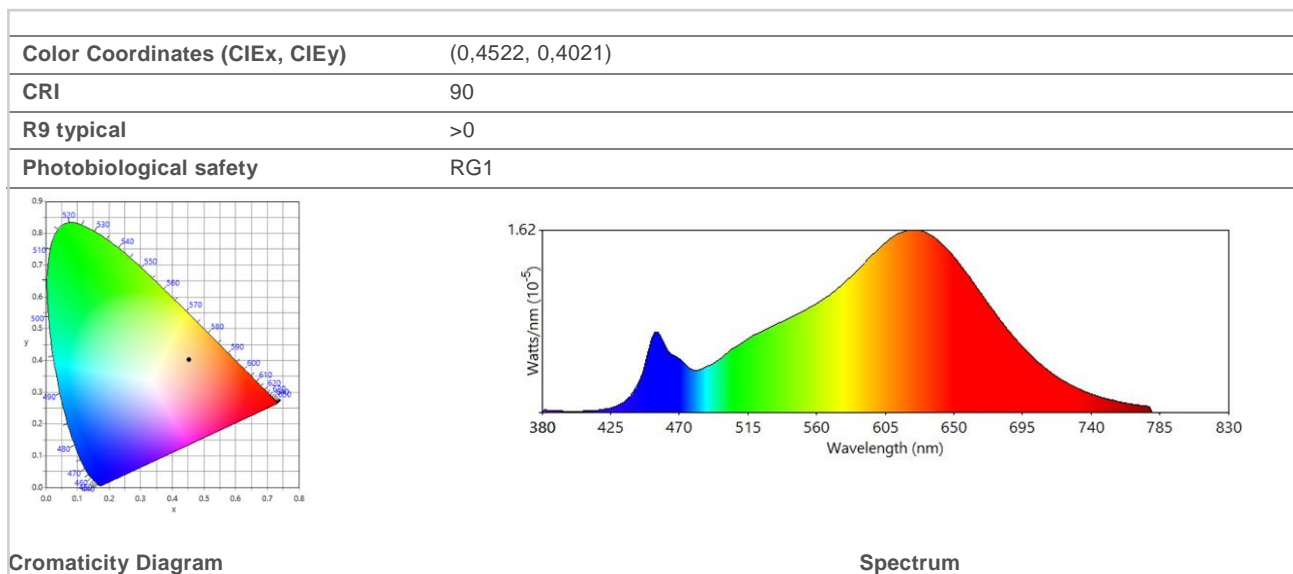
**TFx00S-G1-850**



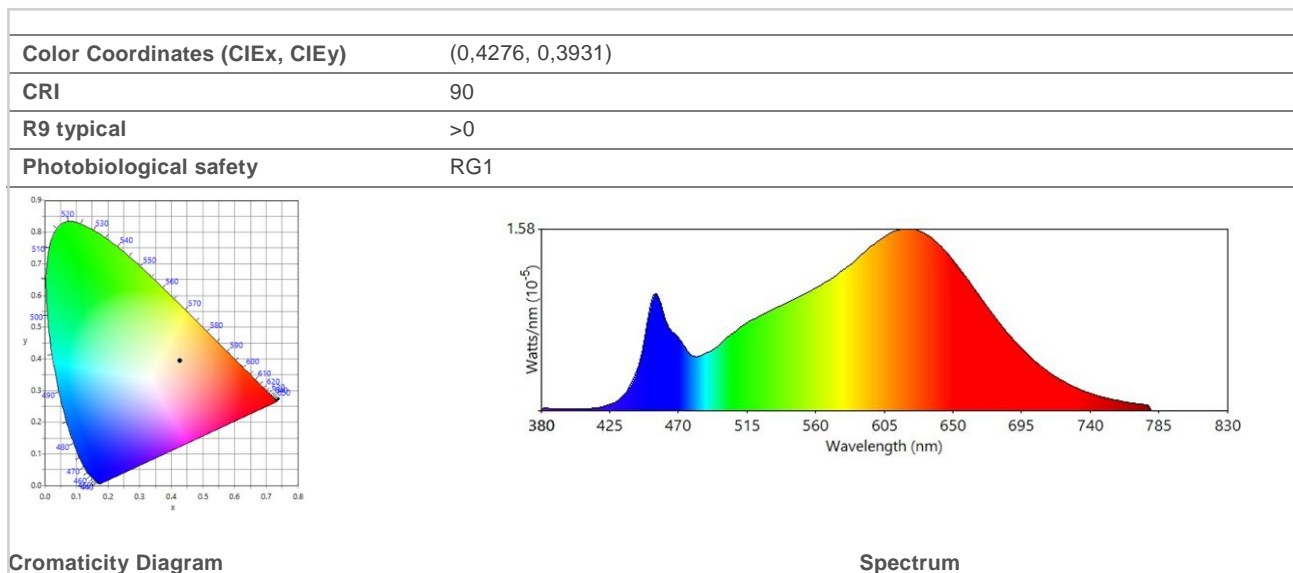
**TFx00S-G1-865**



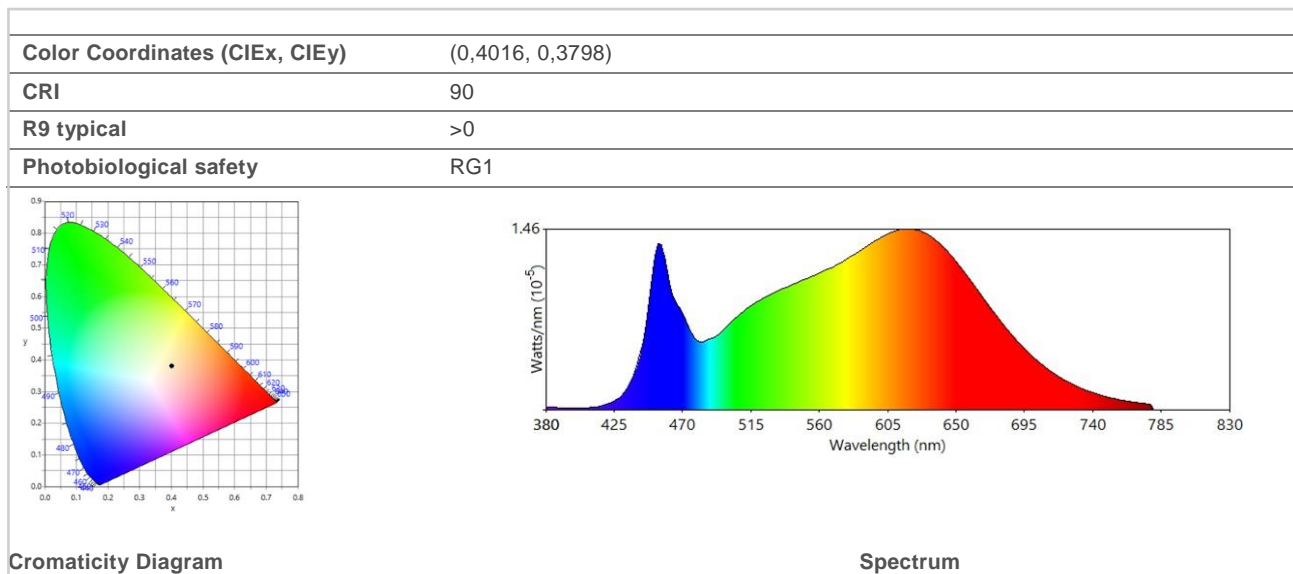
**TFx00S-G1-927**



**TFx00S-G1-930**



**TFx00S-G1-935**



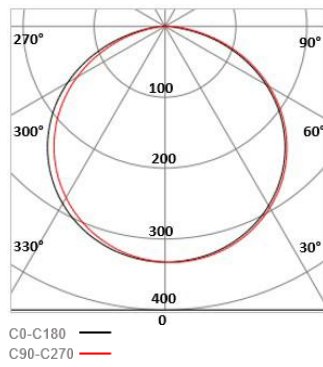
TFx00S-G1-940

Color Coordinates (CIEx, CIEy)	(0,3763, 0,3703)
CRI	90
R9 typical	>0
Photobiological safety	RG1

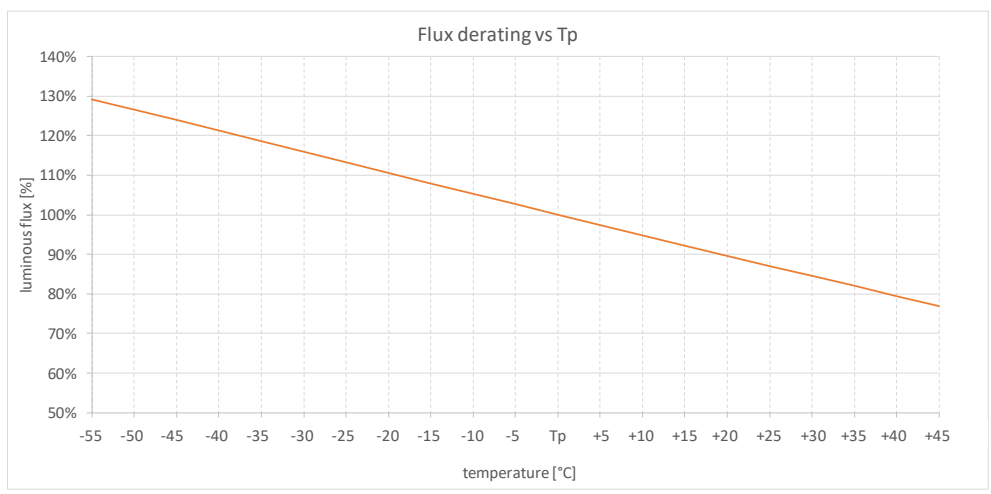
**Chromaticity Diagram**

**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. Valid both for CRI80 and CRI90.

## Lumen maintenance for TEC Flex Shortpitch

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

## Ordering Data




Product description	Product code (EAN10)	Dimensions (length x width x height)	Package content (EAN40)
TF600S-G1-827	4062172133821	225X 240X 120mm	10x Led strip
TF600S-G1-830	4062172133883	225X 240X 120mm	10x Led strip
TF600S-G1-835	4062172250627	225X 240X 120mm	10x Led strip
TF600S-G1-840	4062172133906	225X 240X 120mm	10x Led strip
TF600S-G1-850	4062172133920	225X 240X 120mm	10x Led strip
TF600S-G1-865	4062172133944	225X 240X 120mm	10x Led strip
TF1000S-G1-827	4062172133968	225X 240X 120mm	10x Led strip
TF1000S-G1-830	4062172133982	225X 240X 120mm	10x Led strip
TF1000S-G1-835	4062172250641	225X 240X 120mm	10x Led strip
TF1000S-G1-840	4062172134002	225X 240X 120mm	10x Led strip
TF1000S-G1-850	4062172134026	225X 240X 120mm	10x Led strip
TF1000S-G1-865	4062172134040	225X 240X 120mm	10x Led strip
TF1500S-G1-827	4062172134064	225X 240X 120mm	10x Led strip
TF1500S-G1-830	4062172134088	225X 240X 120mm	10x Led strip
TF1500S-G1-835	4062172250665	225X 240X 120mm	10x Led strip
TF1500S-G1-840	4062172134101	225X 240X 120mm	10x Led strip
TF1500S-G1-850	4062172134125	225X 240X 120mm	10x Led strip
TF1500S-G1-865	4062172134149	225X 240X 120mm	10x Led strip
TF2000S-G1-827	4062172134163	225X 240X 120mm	10x Led strip
TF2000S-G1-830	4062172134187	225X 240X 120mm	10x Led strip
TF2000S-G1-835	4062172250689	225X 240X 120mm	10x Led strip
TF2000S-G1-840	4062172134200	225X 240X 120mm	10x Led strip
TF2000S-G1-850	4062172134224	225X 240X 120mm	10x Led strip
TF2000S-G1-865	4062172134248	225X 240X 120mm	10x Led strip

Product description	Product code (EAN10)	Dimensions (length x width x height)	Package content (EAN40)
TF600S-G1-927	4062172250306	225X 240X 120mm	10x Led strip
TF600S-G1-930	4062172250320	225X 240X 120mm	10x Led strip
TF600S-G1-935	4062172250344	225X 240X 120mm	10x Led strip
TF600S-G1-940	4062172250368	225X 240X 120mm	10x Led strip
TF1000S-G1-927	4062172250382	225X 240X 120mm	10x Led strip
TF1000S-G1-930	4062172250405	225X 240X 120mm	10x Led strip
TF1000S-G1-935	4062172250429	225X 240X 120mm	10x Led strip
TF1000S-G1-940	4062172250443	225X 240X 120mm	10x Led strip
TF1500S-G1-927	4062172250504	225X 240X 120mm	10x Led strip



<b>TF1500S-G1-930</b>	4062172250528	225X 240X 120mm	10x Led strip
<b>TF1500S-G1-935</b>	4062172250542	225X 240X 120mm	10x Led strip
<b>TF1500S-G1-940</b>	4062172250566	225X 240X 120mm	10x Led strip
<b>TF2000S-G1-927</b>	4062172268608	225X 240X 120mm	10x Led strip
<b>TF2000S-G1-930</b>	4062172268622	225X 240X 120mm	10x Led strip
<b>TF2000S-G1-935</b>	4062172268646	225X 240X 120mm	10x Led strip
<b>TF2000S-G1-940</b>	4062172268660	225X 240X 120mm	10x Led strip















### Optional Accessories

Product Type	Product description	Product code (EAN10)	EAN10 Package content	MOQ	
	<b>2pin Connector 500mm cable</b>	<b>CONN-FLEX-2P-050 KIT 10PCS</b>	4062172179591	10x Connectors	10
	<b>2pin Connector 2000mm cable</b>	<b>CONN-FLEX-2P-200 KIT 10PCS</b>	4062172179614	10x Connectors	10
	<b>Jumper</b>	<b>FX-SC08-G2-CT4PJ</b>	4052899464858	25x Jumpers	25
	<b>Bridge 30 mm cable</b>	<b>CORNER-FLEX-4P-003 KIT 10PCS</b>	4062172179638	10x Bridges	10
	<b>Bridge 150 mm cable</b>	<b>CORNER-FLEX-4P-015 KIT 10PCS</b>	4062172179676	10x Bridges	10















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

## Profile System Comb















CRI80 - Maximum recommended ambient temperature in case of surface mounting.

		 TFxx00S-G1-8xx Surface mounting	TF600S	TF1000S	TF1500S	TF2000S
Type	Product Description	Product code (EAN)	Ambient Temperature °C			
	Slim Profile <b>LTS-2000</b>	4062172207300	50	50	50	50
	Slim Track <b>FX-QMS-G1-TU15H6-300</b>	4052899448865	50	50	50	50
	Slim Track <b>FX-QMS-G1-TU15H6W3-300</b>	4052899448889	50	50	50	50
	Slim Track <b>FX-QMS-G1-TU16H12-300</b>	4052899448964	50	50	50	50
	Slim Track <b>FX-QMS-G1-TU16H12W3-300</b>	4052899448988	50	50	50	50
	Slim Track <b>FX-QMS-G1-TR19H16-300</b>	4052899449008	50	50	50	50
	Slim Track <b>FX-QMS-G1-TU16H12LS-300</b>	4052899449046	50	50	50	50
	Slim Track <b>FX-QMS-G1-T45D19H19-300</b>	4052899448667	50	50	50	50
	Wide Track <b>FX-QMW-G1-TK30D46H27-300</b>	4052899448827	50	50	50	50
	Wide Track <b>FX-QMW-G1-TU26H10-300</b>	4062172114165	50	50	50	50
	Wide Track <b>FX-QMW-G1-TU26H25W10-300</b>	4052899448773	50	50	50	50
	Wide Track <b>FX-QMW-G1-TU26H25W2-300</b>	4052899448841	50	50	50	50
	Wide Track <b>FX-QMW-G1-TU26H25-300</b>	4052899448803	50	50	50	50
















CRI80 - Maximum recommended ambient temperature in case of recessed mounting.

 <b>TFxx00S-G1-8xx</b> Recessed mounting				TF600S	TF1000S	TF1500S	TF2000S
Type	Product Description	Product code (EAN)	Ambient Temperature °C				
	Slim Profile <b>LTS-2000</b>	4062172207300	50	50	50	45	
	Slim Track <b>FX-QMS-G1-TU15H6-300</b>	4052899448865	50	50	50	45	
	Slim Track <b>FX-QMS-G1-TU15H6W3-300</b>	4052899448889	50	50	50	45	
	Slim Track <b>FX-QMS-G1-TU16H12-300</b>	4052899448964	50	50	50	48	
	Slim Track <b>FX-QMS-G1-TU16H12W3-300</b>	4052899448988	50	50	50	48	
	Slim Track <b>FX-QMS-G1-TR19H16-300</b>	4052899449008	50	50	50	48	
	Slim Track <b>FX-QMS-G1-TU16H12LS-300</b>	4052899449046	50	50	50	48	
	Slim Track <b>FX-QMS-G1-T45D19H19-300</b>	4052899448667	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TK30D46H27-300</b>	4052899448827	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TU26H10-300</b>	4062172114165	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TU26H25W10-300</b>	4052899448773	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TU26H25W2-300</b>	4052899448841	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TU26H25-300</b>	4052899448803	50	50	50	50	

CRI90 - Maximum recommended ambient temperature in case of surface mounting.

 <b>TFxx00S-G1-9xx</b> Surface mounting				TF600S	TF1000S	TF1500S	TF2000S
Type	Product Description	Product code (EAN)	Ambient Temperature °C				
	Slim Profile <b>LTS-2000</b>	4062172207300	50	50	50	50	
	Slim Track <b>FX-QMS-G1-TU15H6-300</b>	4052899448865	50	50	50	48	
	Slim Track <b>FX-QMS-G1-TU15H6W3-300</b>	4052899448889	50	50	50	48	
	Slim Track <b>FX-QMS-G1-TU16H12-300</b>	4052899448964	50	50	50	50	
	Slim Track <b>FX-QMS-G1-TU16H12W3-300</b>	4052899448988	50	50	50	50	
	Slim Track <b>FX-QMS-G1-TR19H16-300</b>	4052899449008	50	50	50	50	
	Slim Track <b>FX-QMS-G1-TU16H12LS-300</b>	4052899449046	50	50	50	50	
	Slim Track <b>FX-QMS-G1-T45D19H19-300</b>	4052899448667	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TK30D46H27-300</b>	4052899448827	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TU26H10-300</b>	4062172114165	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TU26H25W10-300</b>	4052899448773	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TU26H25W2-300</b>	4052899448841	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TU26H25-300</b>	4052899448803	50	50	50	50	

CRI90 - Maximum recommended ambient temperature in case of recessed mounting.

		 <b>TFxx00S-G1-9xx</b> Recessed mounting 		TF600S	TF1000S	TF1500S	TF2000S
Type	Product Description	Product code (EAN)	Ambient Temperature °C				
	Slim Profile <b>LTS-2000</b>	4062172207300	50	50	50	45	
	Slim Track <b>FX-QMS-G1-TU15H6-300</b>	4052899448865	50	50	48	43	
	Slim Track <b>FX-QMS-G1-TU15H6W3-300</b>	4052899448889	50	50	48	43	
	Slim Track <b>FX-QMS-G1-TU16H12-300</b>	4052899448964	50	50	50	48	
	Slim Track <b>FX-QMS-G1-TU16H12W3-300</b>	4052899448988	50	50	50	48	
	Slim Track <b>FX-QMS-G1-TR19H16-300</b>	4052899449008	50	50	50	48	
	Slim Track <b>FX-QMS-G1-TU16H12LS-300</b>	4052899449046	50	50	50	48	
	Slim Track <b>FX-QMS-G1-T45D19H19-300</b>	4052899448667	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TK30D46H27-300</b>	4052899448827	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TU26H10-300</b>	4062172114165	50	50	50	48	
	Wide Track <b>FX-QMW-G1-TU26H25W10-300</b>	4052899448773	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TU26H25W2-300</b>	4052899448841	50	50	50	50	
	Wide Track <b>FX-QMW-G1-TU26H25-300</b>	4052899448803	50	50	50	50	

**Note:** the table is for application evaluation only; always ensure that Tc do not exceed the maximum allowed value.

## 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)

\* LEDs used in OSRAM strips are single BIN 3 SDCM ellipse.

\*\* 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)

