

Light is OSRAM

# OSRAM TEC Flex Shortpitch IP66

The installation is easy also in dry and damp environments

TFP600S/1000S/1500S/2000S-G1



## Application areas

Architectural lighting  
Integration into coves, walls, object and furniture integration  
Dry and damp environments, outdoor (UV-resistant)

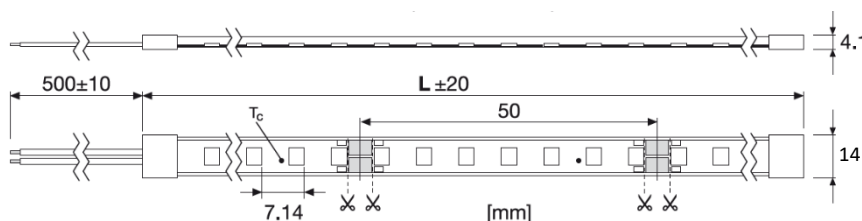
## Standards

CE, ENEC, RoHS

## Features & Benefits

- 24V Constant Voltage Dimmable IP66 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
- 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, optional connectors, mounting accessories

## Dimension & Length



Lowest Bending Radius = 50mm  
Number LED/m = 140  
Pre-soldered wires on one side  
\*end cap is included

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 @ T <sub>c</sub> 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 & L80B50, 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>	5 cm
<b>Protection type</b>	IP66
<b>Classification acc. to IEC 62031</b>	Built-in

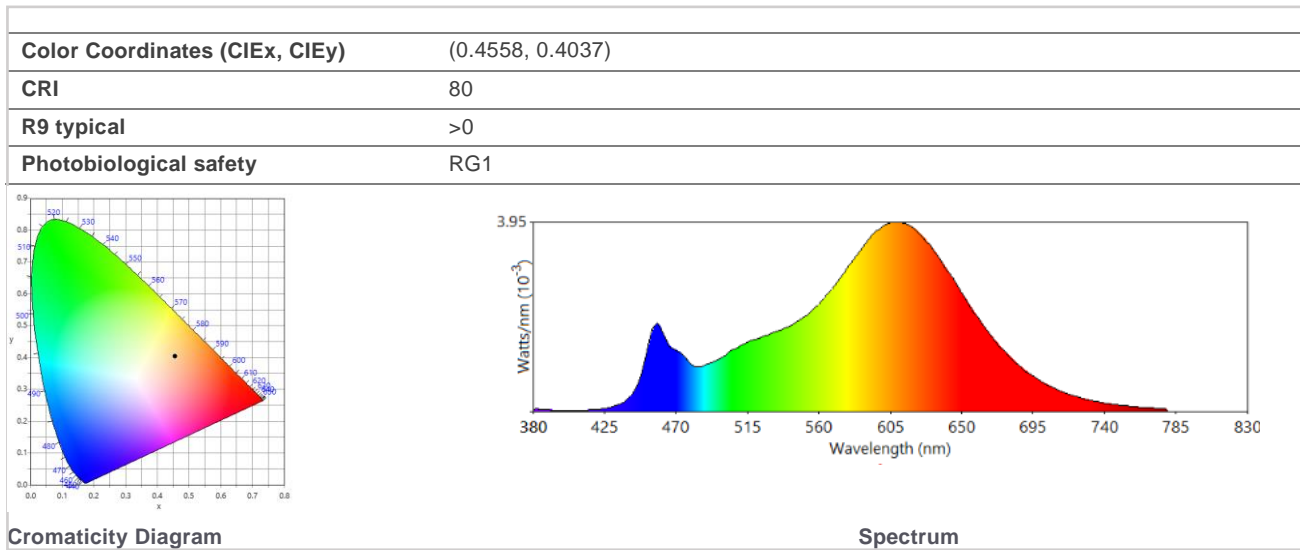
### REFERENCE DATA

TFP Shortpitch CRI80	Nominal CCT*	CRI	Lm/m	W/m	Luminous efficacy lm/W	LEDs/ m	Performance Temp. Tp°C	Length m
TFP600S-G1-827	● 2700 K	>80	600	5.5	109	140	35	5
TFP600S-G1-830	● 3000 K	>80	640	5.5	116	140	35	5
TFP600S-G1-835	● 3500 K	>80	600	5.5	109	140	35	5
TFP600S-G1-840	○ 4000 K	>80	640	5.5	116	140	35	5
TFP600S-G1-850	● 5000 K	>80	660	5.5	120	140	35	5
TFP600S-G1-865	● 6500 K	>80	650	5.5	118	140	35	5
TFP1000S-G1-827	● 2700 K	>80	1030	9	114	140	40	5
TFP1000S-G1-830	● 3000 K	>80	1110	9	123	140	40	5
TFP1000S-G1-835	● 3500 K	>80	1000	9	111.1	140	40	5
TFP1000S-G1-840	○ 4000 K	>80	1080	9	120	140	40	5
TFP1000S-G1-850	● 5000 K	>80	1130	9	126	140	40	5
TFP1000S-G1-865	● 6500 K	>80	1120	9	124	140	40	5
TFP1500S-G1-827	● 2700 K	>80	1530	13.2	116	140	45	5
TFP1500S-G1-830	● 3000 K	>80	1620	13.2	123	140	45	5
TFP1500S-G1-835	● 3500 K	>80	1500	13.2	113.6	140	45	5
TFP1500S-G1-840	○ 4000 K	>80	1630	13.2	123	140	45	5
TFP1500S-G1-850	● 5000 K	>80	1670	13.2	127	140	45	5
TFP1500S-G1-865	● 6500 K	>80	1660	13.2	126	140	45	5
TFP2000S-G1-827	● 2700 K	>80	1690	15.5	109	140	50	5
TFP2000S-G1-830	● 3000 K	>80	1910	15.5	123	140	50	5
TFP2000S-G1-835	● 3500 K	>80	2000	15.5	129	140	50	5
TFP2000S-G1-840	○ 4000 K	>80	1920	15.5	124	140	50	5
TFP2000S-G1-850	● 5000 K	>80	1960	15.5	126	140	50	5
TFP2000S-G1-865	● 6500 K	>80	1940	15.5	125	140	50	5

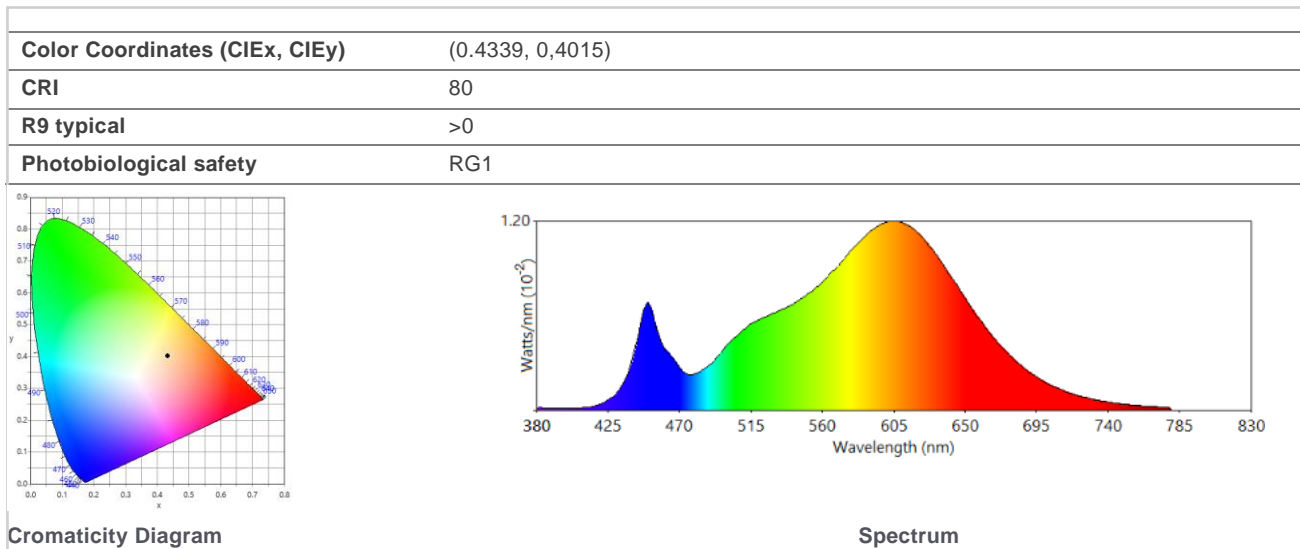
TFP Shortpitch CRI90	Nominal CCT*	CRI	lm/m	W/m	Luminous Efficacy lm/W	LEDs/m	Performance Temp. T <sub>p</sub> °C	Length m
TFP600S-G1-927	● 2700 K	>90	555	5.9	94.1	140	43	5
TFP600S-G1-930	● 3000 K	>90	590	5.9	100	140	43	5
TFP600S-G1-935	● 3500 K	>90	590	5.9	100	140	43	5
TFP600S-G1-940	○ 4000 K	>90	600	5.9	101.7	140	43	5
TFP1000S-G1-927	● 2700 K	>90	970	9.9	98	140	50	5
TFP1000S-G1-930	● 3000 K	>90	1035	9.9	104.5	140	50	5
TFP1000S-G1-935	● 3500 K	>90	1040	9.9	105.1	140	50	5
TFP1000S-G1-940	○ 4000 K	>90	1045	9.9	105.6	140	50	5
TFP1500S-G1-927	● 2700 K	>90	1405	14.4	97.6	140	58	5
TFP1500S-G1-930	● 3000 K	>90	1485	14.4	103.1	140	58	5
TFP1500S-G1-935	● 3500 K	>90	1500	14.4	104.2	140	58	5
TFP1500S-G1-940	○ 4000 K	>90	1510	14.4	104.9	140	58	5
TFP2000S-G1-927	● 2700 K	>90	1670	17.3	96.5	140	61	4
TFP2000S-G1-930	● 3000 K	>90	1800	17.3	104.0	140	61	4
TFP2000S-G1-935	● 3500 K	>90	1805	17.3	104.3	140	61	4
TFP2000S-G1-940	○ 4000 K	>90	1820	17.3	105.2	140	61	4

**Photometric characteristics**

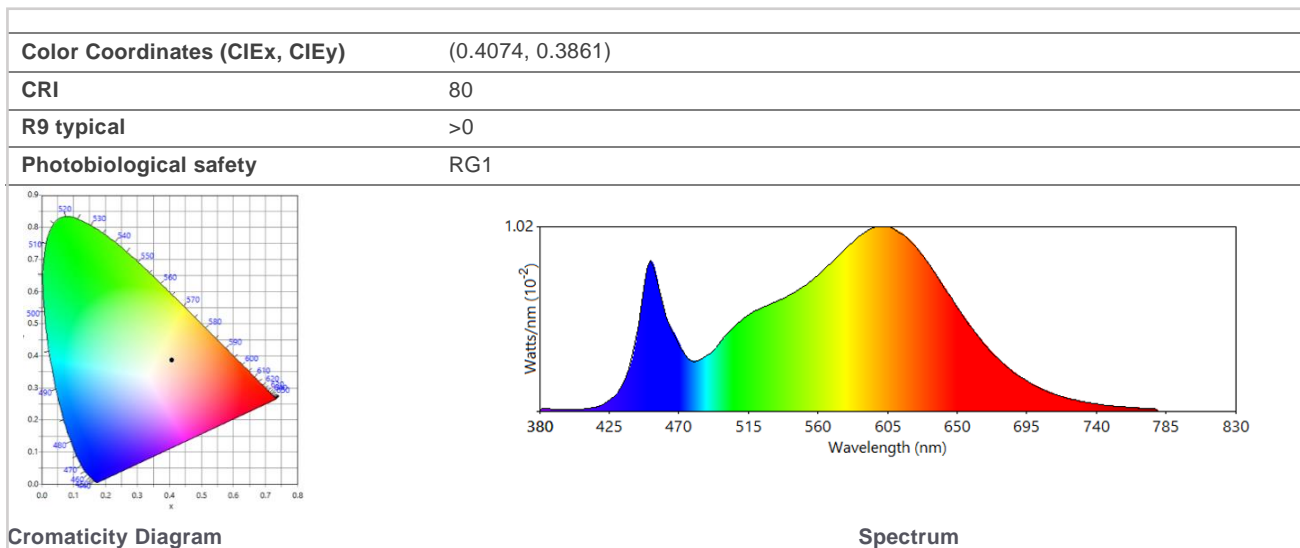
**TFPx00S-G1-827**



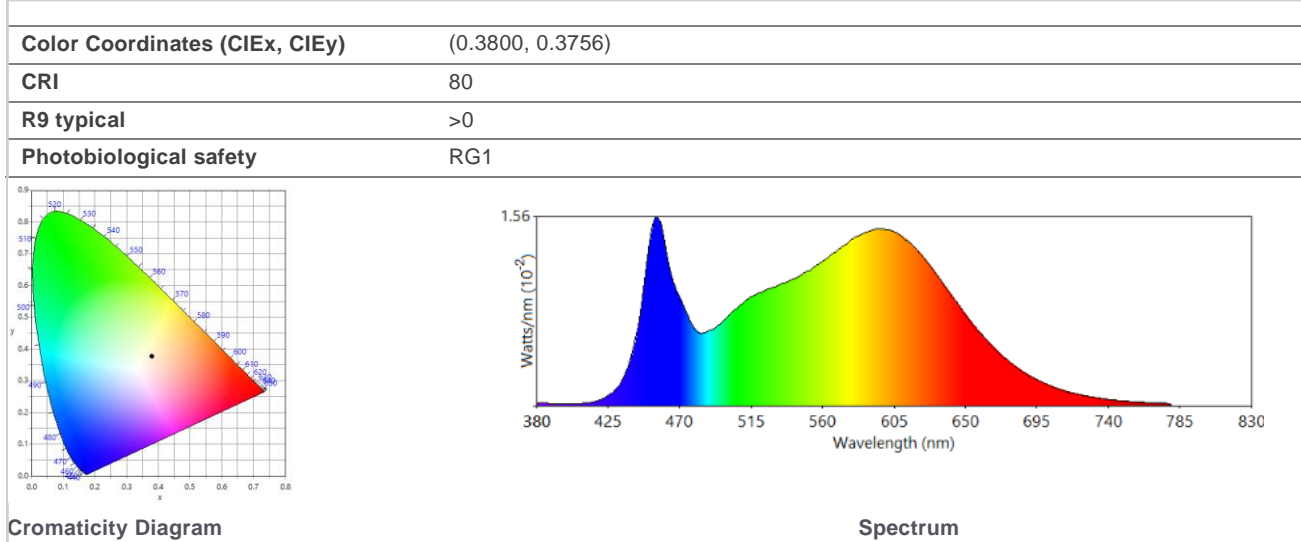
**TFPx00S-G1-830**



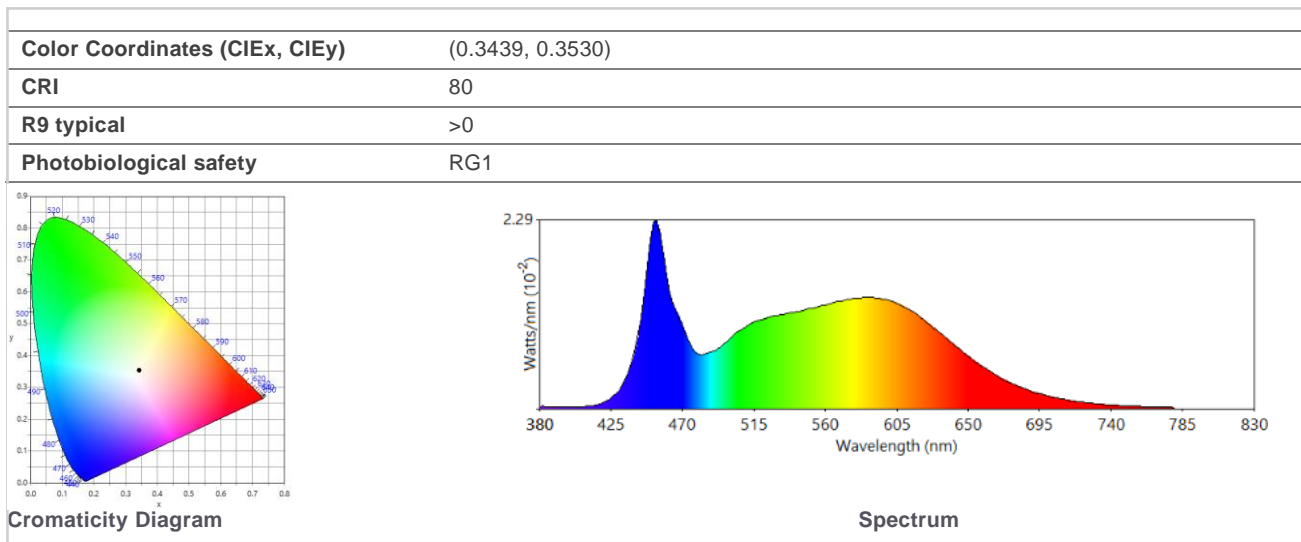
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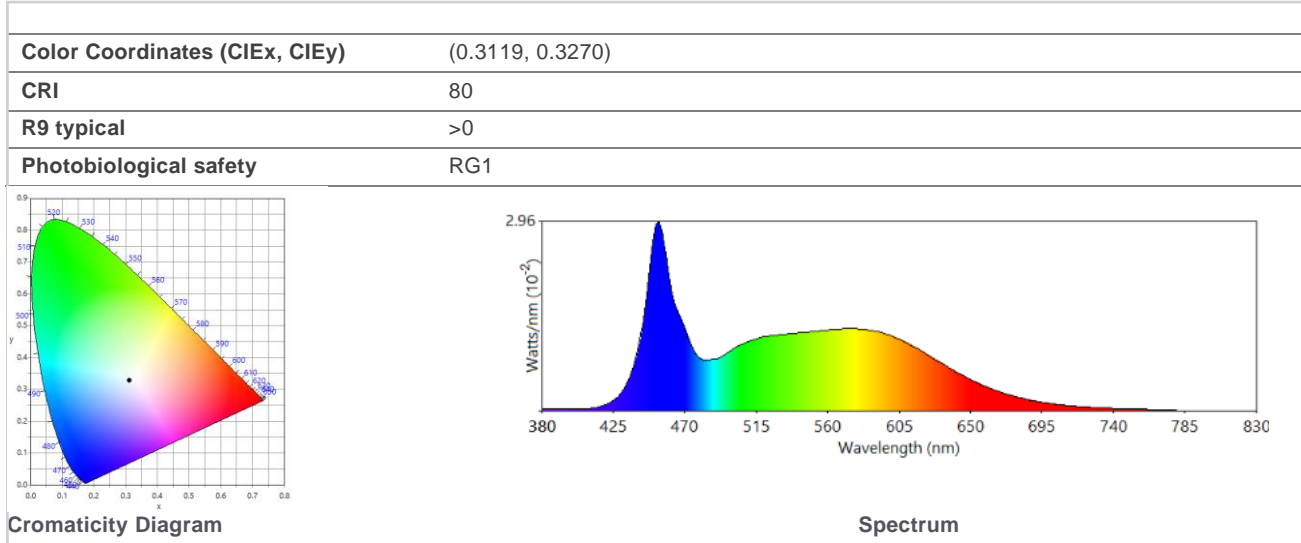
**TFPx00S-G1-840**



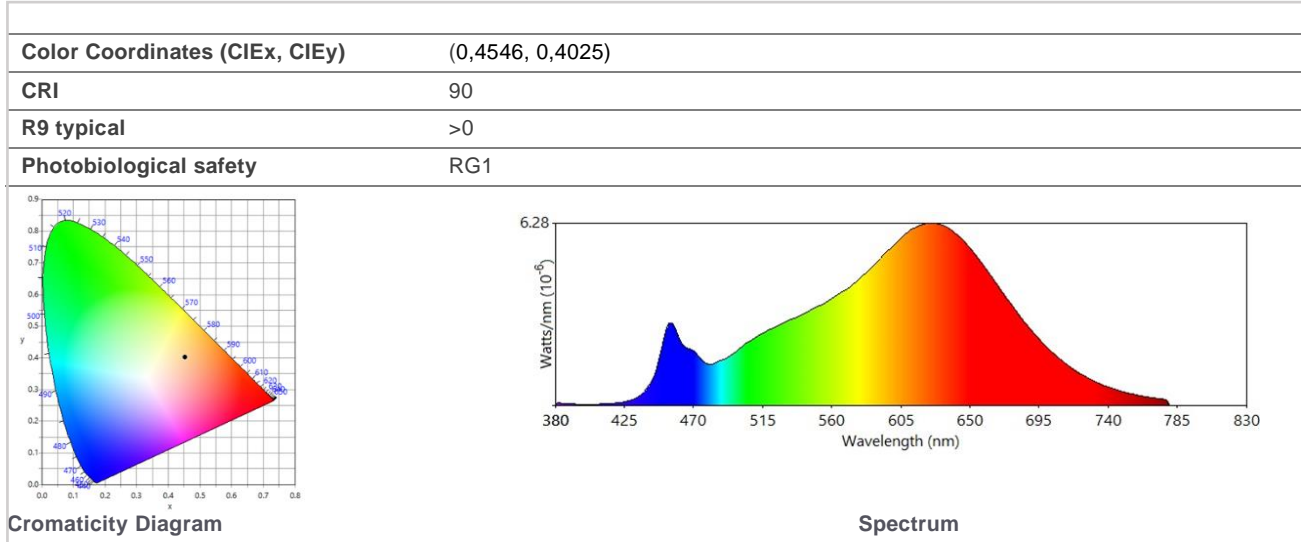
**TFPx00S-G1-850**



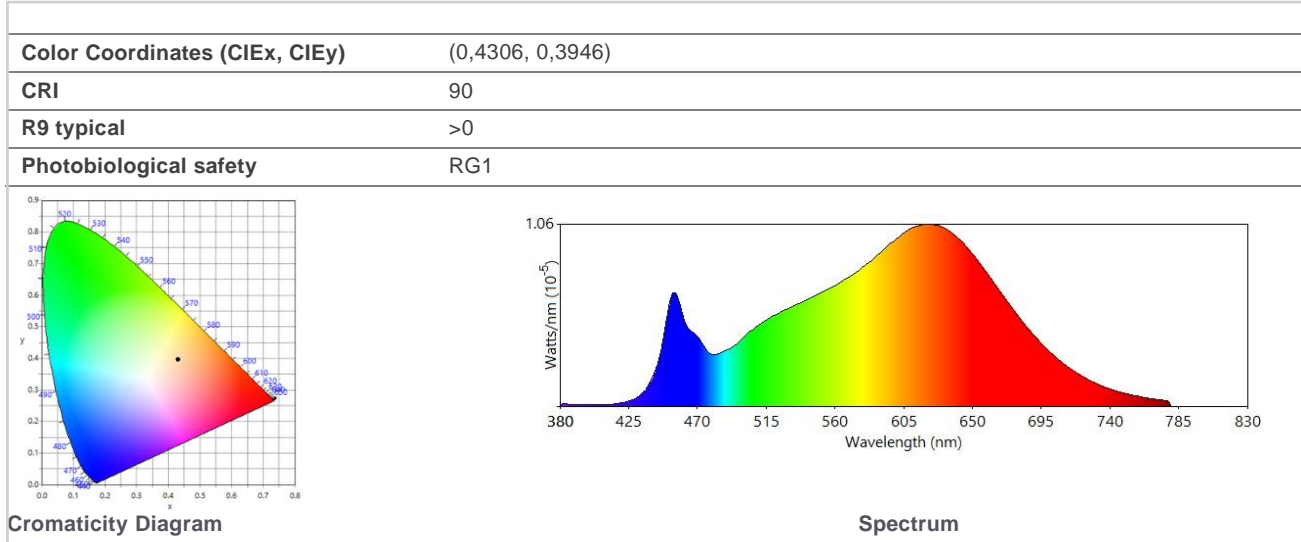
**TFPx00S-G1-865**



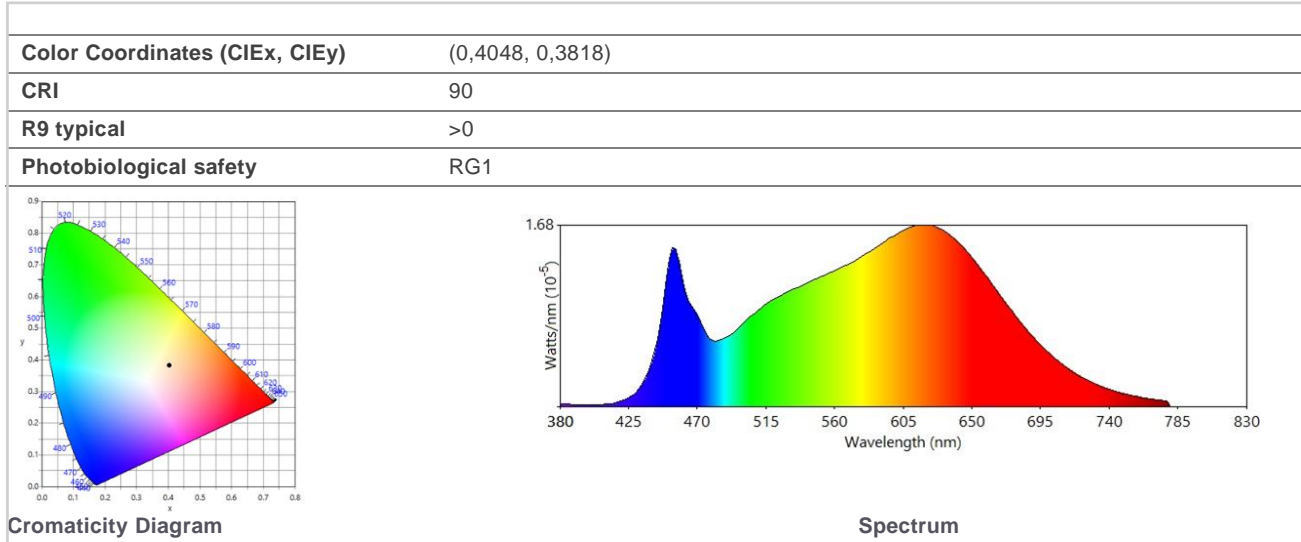
**TFPx00S-G1-927**



**TFPx00S-G1-930**



**TFPx00S-G1-935**



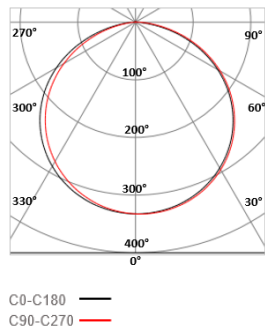
**TFPx00S-G1-940**

<b>Color Coordinates (CIEx, CIEy)</b>	(0,3796, 0,3728)
<b>CRI</b>	90
<b>R9 typical</b>	>0
<b>Photobiological safety</b>	RG1

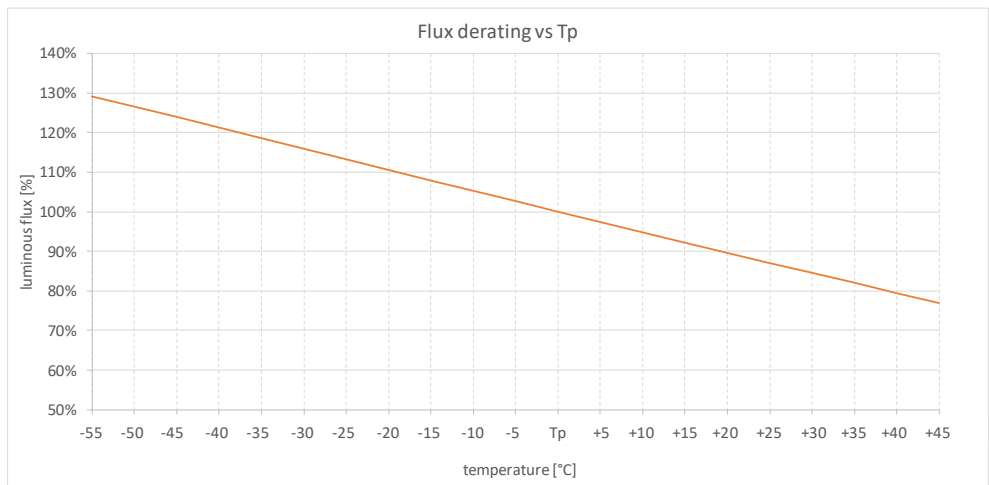
**Chromaticity Diagram**

**Spectrum**

**Light Distribution**



**Luminous Flux maintenance according to Tp value**



**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 Protect 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)
TFP600S-G1-827	4062172134279	280X 305X 180mm	10x Led strip
TFP600S-G1-830	4062172134293	280X 305X 180mm	10x Led strip
TFP600S-G1-835	4062172251440	280X 305X 180mm	10x Led strip
TFP600S-G1-840	4062172134316	280X 305X 180mm	10x Led strip
TFP600S-G1-850	4062172134330	280X 305X 180mm	10x Led strip
TFP600S-G1-865	4062172134354	280X 305X 180mm	10x Led strip
TFP1000S-G1-827	4062172134378	280X 305X 180mm	10x Led strip
TFP1000S-G1-830	4062172134392	280X 305X 180mm	10x Led strip
TFP1000S-G1-835	4062172251464	280X 305X 180mm	10x Led strip
TFP1000S-G1-840	4062172134415	280X 305X 180mm	10x Led strip
TFP1000S-G1-850	4062172134439	280X 305X 180mm	10x Led strip
TFP1000S-G1-865	4062172134453	280X 305X 180mm	10x Led strip
TFP1500S-G1-827	4062172134477	280X 305X 180mm	10x Led strip
TFP1500S-G1-830	4062172134491	280X 305X 180mm	10x Led strip
TFP1500S-G1-835	4062172251488	280X 305X 180mm	10x Led strip
TFP1500S-G1-840	4062172134514	280X 305X 180mm	10x Led strip
TFP1500S-G1-850	4062172134538	280X 305X 180mm	10x Led strip
TFP1500S-G1-865	4062172134552	280X 305X 180mm	10x Led strip
TFP2000S-G1-827	4062172134576	280X 305X 180mm	10x Led strip
TFP2000S-G1-830	4062172134590	280X 305X 180mm	10x Led strip
TFP2000S-G1-835	4062172251525	280X 305X 180mm	10x Led strip
TFP2000S-G1-840	4062172134613	280X 305X 180mm	10x Led strip
TFP2000S-G1-850	4062172134637	280X 305X 180mm	10x Led strip
TFP2000S-G1-865	4062172134651	280X 305X 180mm	10x Led strip




Product description	Product code (EAN10)	Dimensions (length x width x height)	Package content (EAN40)
TFP600S-G1-927	4062172251075	280X 305X 180mm	10x Led strip
TFP600S-G1-930	4062172251136	280X 305X 180mm	10x Led strip
TFP600S-G1-935	4062172251181	280X 305X 180mm	10x Led strip
TFP600S-G1-940	4062172251204	280X 305X 180mm	10x Led strip
TFP1000S-G1-927	4062172251228	280X 305X 180mm	10x Led strip
TFP1000S-G1-930	4062172251242	280X 305X 180mm	10x Led strip
TFP1000S-G1-935	4062172251266	280X 305X 180mm	10x Led strip
TFP1000S-G1-940	4062172251280	280X 305X 180mm	10x Led strip
TFP1500S-G1-927	4062172251303	280X 305X 180mm	10x Led strip



<b>TFP1500S-G1-930</b>	4062172251327	280X 305X 180mm	10x Led strip
<b>TFP1500S-G1-935</b>	4062172251341	280X 305X 180mm	10x Led strip
<b>TFP1500S-G1-940</b>	4062172251389	280X 305X 180mm	10x Led strip
<b>TFP2000S-G1-927</b>	4062172268684	280X 305X 180mm	10x Led strip
<b>TFP2000S-G1-930</b>	4062172268707	280X 305X 180mm	10x Led strip
<b>TFP2000S-G1-935</b>	4062172268721	280X 305X 180mm	10x Led strip
<b>TFP2000S-G1-940</b>	4062172268745	280X 305X 180mm	10x Led strip

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












## Optional Accessories




Product Type	Product description	Product code	Package content
 <b>Connector</b>	FX-SC08-G2-C2PF-IP54-0500	4052899464889	20x Connector (500mm wire)
 <b>Silicon boot</b>	FX-SC08-G2-BTJ-IP54	4052899568853	25x Silicon boot
 <b>Jumper</b>	FX-SC08-G2-CT4PJ	4052899464858	25x Jumper

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

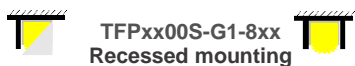
## Profile System Combinations

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

		 TFPxx00S-G1-8xx Surface Mounting		TFP600S	TFP1000S	TFP1500S	TFP2000S
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	45	
 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.



**TFPxx00S-G1-8xx**  
Recessed mounting

**TFP600S    TFP1000S    TFP1500S    TFP2000S**











Type	Product Description	Product code (EAN)	Ambient Temperature °C				
	Slim Profile	<b>LTS-2000</b>	4062172207300	50	50	45	40
	Slim Track	<b>FX-QMS-G1-TU15H6-300</b>	4052899448865	50	50	45	40
	Slim Track	<b>FX-QMS-G1-TU15H6W3-300</b>	4052899448889	50	50	45	40
	Slim Track	<b>FX-QMS-G1-TU16H12-300</b>	4052899448964	50	50	48	43
	Slim Track	<b>FX-QMS-G1-TU16H12W3-300</b>	4052899448988	50	50	48	43
	Slim Track	<b>FX-QMS-G1-TR19H16-300</b>	4052899449008	50	50	48	43
	Slim Track	<b>FX-QMS-G1-TU16H12LS-300</b>	4052899449046	50	50	48	43
	Slim Track	<b>FX-QMS-G1-T45D19H19-300</b>	4052899448667	50	50	45	40
	Wide Track	<b>FX-QMW-G1-TK30D46H27-300</b>	4052899448827	50	50	50	48
	Wide Track	<b>FX-QMW-G1-TU26H10-300</b>	4062172114165	50	50	48	43
	Wide Track	<b>FX-QMW-G1-TU26H25W10-300</b>	4052899448773	50	50	45	40
	Wide Track	<b>FX-QMW-G1-TU26H25W2-300</b>	4052899448841	50	50	45	40
	Wide Track	<b>FX-QMW-G1-TU26H25-300</b>	4052899448803	50	50	45	40




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


















**TFPxx00S-G1-9xx**  
Surface Mounting

**TFP600S    TFP1000S    TFP1500S    TFP2000S**

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	45
	Slim Track	<b>FX-QMS-G1-TU16H12W3-300</b>	4052899448988	50	50	50	45
	Slim Track	<b>FX-QMS-G1-TR19H16-300</b>	4052899449008	50	50	50	45
	Slim Track	<b>FX-QMS-G1-TU16H12LS-300</b>	4052899449046	50	50	50	45
	Slim Track	<b>FX-QMS-G1-T45D19H19-300</b>	4052899448667	50	50	50	45
	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	48
	Wide Track	<b>FX-QMW-G1-TU26H25W2-300</b>	4052899448841	50	50	50	48
	Wide Track	<b>FX-QMW-G1-TU26H25-300</b>	4052899448803	50	50	50	48

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

		 TFPxx00S-G1-9xx  Recessed mounting		TFP600S	TFP1000S	TFP1500S	TFP2000S
Type	Product Description	Product code (EAN)	Ambient Temperature °C				
	Slim Profile	<b>LTS-2000</b>	4062172207300	50	50	45	40
	Slim Track	<b>FX-QMS-G1-TU15H6-300</b>	4052899448865	50	50	45	40
	Slim Track	<b>FX-QMS-G1-TU15H6W3-300</b>	4052899448889	50	50	45	40
	Slim Track	<b>FX-QMS-G1-TU16H12-300</b>	4052899448964	50	50	45	40
	Slim Track	<b>FX-QMS-G1-TU16H12W3-300</b>	4052899448988	50	50	45	40
	Slim Track	<b>FX-QMS-G1-TR19H16-300</b>	4052899449008	50	50	45	40
	Slim Track	<b>FX-QMS-G1-TU16H12LS-300</b>	4052899449046	50	50	45	40
	Slim Track	<b>FX-QMS-G1-T45D19H19-300</b>	4052899448667	50	50	45	40
	Wide Track	<b>FX-QMW-G1-TK30D46H27-300</b>	4052899448827	50	50	50	48
	Wide Track	<b>FX-QMW-G1-TU26H10-300</b>	4062172114165	50	50	48	43
	Wide Track	<b>FX-QMW-G1-TU26H25W10-300</b>	4052899448773	50	50	45	40
	Wide Track	<b>FX-QMW-G1-TU26H25W2-300</b>	4052899448841	50	50	45	40
	Wide Track	<b>FX-QMW-G1-TU26H25-300</b>	4052899448803	50	50	45	40

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

## 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).

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