

Light is OSRAM

OSRAM TEC Flex IP00

Save energy in general illumination with robust and long endurance LED strips

TF300/1000/2000-G1



Application areas

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

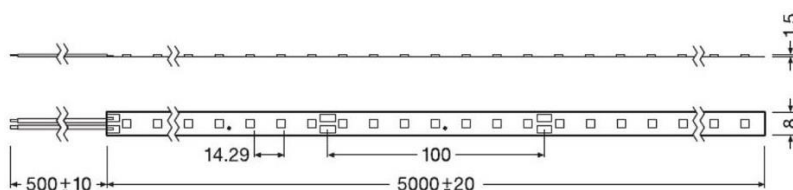
Standards

CE, ENEC, RoHS

Features & Benefits

- 24V Constant Voltage Dimmable LED strip
- Constant flux over length and power supply variations thanks to active IC on each single unit
- Luminous flux range: 300lm/m, 1000lm/m, 2000lm/m
- Color temperature: 2700K, 3000K, 3500K, 4000K, 5000K, 6500K
- Single color bin in 3SDCM
- High Efficiency (up to 140lm/W) enabling energy saving also in general illumination
- Fast and reliable protection for accidental reverse power supply
- Robust ESD protection
- Pre soldered wires with optional Connection System
- Improved self-adhesive backside for easy and reliable mounting on different surfaces
- 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 = 20mm

Number LEDs/m = 70

Pre-soldered wires on one side

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

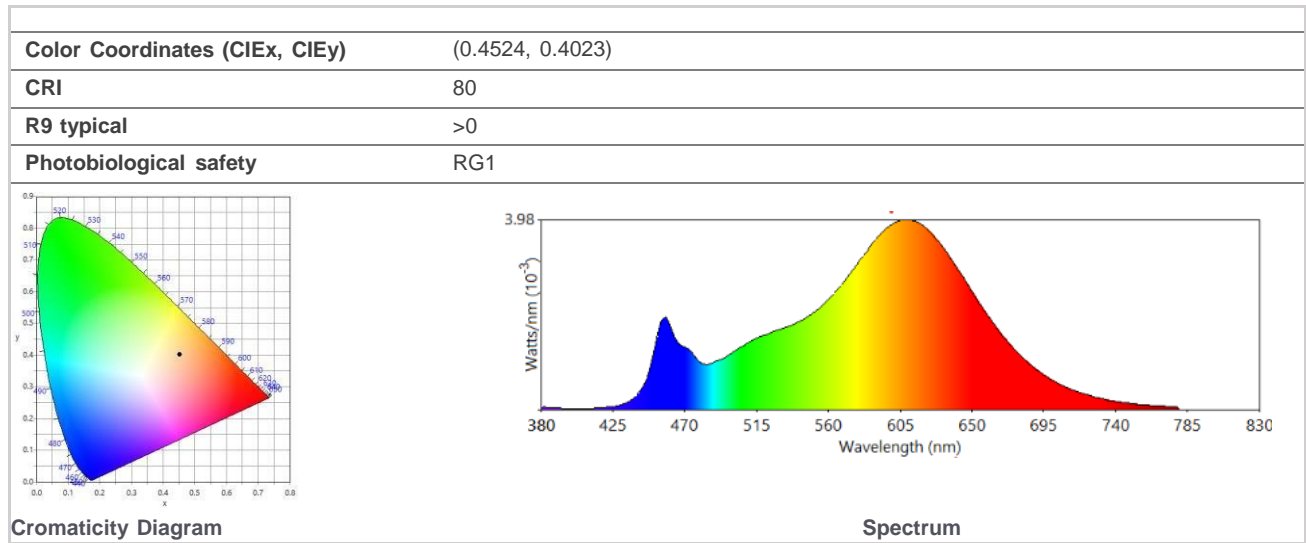
Dimmable	Pulse width modulation (PWM)
Dimming range	1...100%
Lifetime	50.000 hrs (L70B50 & L80B10, Tp rated)
Adhesive tape on backside	3M
Complementary systems	Connectors, Profiles and covers, OPTOTRONIC drivers and dimmers
Minimum bending radius	2 cm
Protection type	IP00
Classification acc. to IEC 62031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

REFERENCE DATA

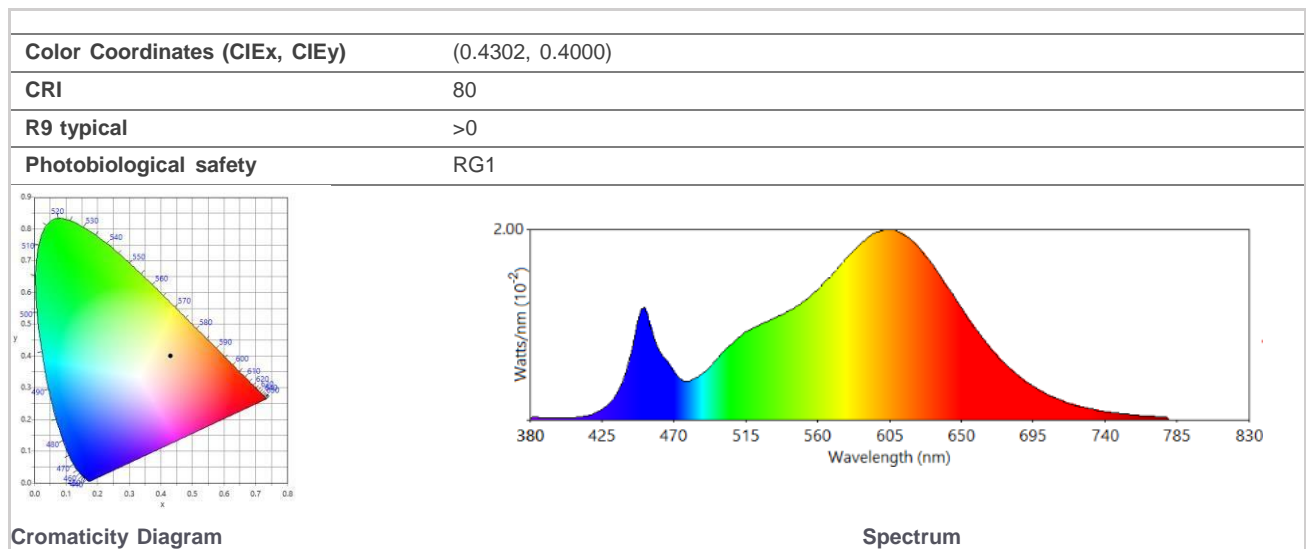
TF		Nominal CCT*	CRI	lm/m	W/m	Luminous Efficacy lm/W	LEDs/m	Performance Temp. Tp °C	Length m
TF300-G1-827		2700 K	>80	350	2.8	125	70	30	5
TF300-G1-830		3000 K	>80	360	2.8	129	70	30	5
TF300-G1-840		4000 K	>80	370	2.8	132	70	30	5
TF300-G1-850		5000 K	>80	380	2.8	136	70	30	5
TF300-G1-865		6500 K	>80	370	2.8	132	70	30	5
TF1000-G1-827		2700 K	>80	1110	9.5	117	70	40	5
TF1000-G1-830		3000 K	>80	1200	9.5	126	70	40	5
TF1000-G1-835		3500 K	>80	1150	9.5	121	70	40	5
TF1000-G1-840		4000 K	>80	1210	9.5	127	70	40	5
TF1000-G1-850		5000 K	>80	1240	9.5	131	70	40	5
TF1000-G1-865		6500 K	>80	1230	9.5	129	70	40	5
TF2000-G1-827		2700 K	>80	1830	15.5	118	70	50	5
TF2000-G1-830		3000 K	>80	2000	15.5	129	70	50	5
TF2000-G1-835		3500 K	>80	2000	15.5	129	70	50	5
TF2000-G1-840		4000 K	>80	2060	15.5	133	70	50	5
TF2000-G1-850		5000 K	>80	2110	15.5	136	70	50	5
TF2000-G1-865		6500 K	>80	2060	15.5	133	70	50	5

Photometric Characteristics

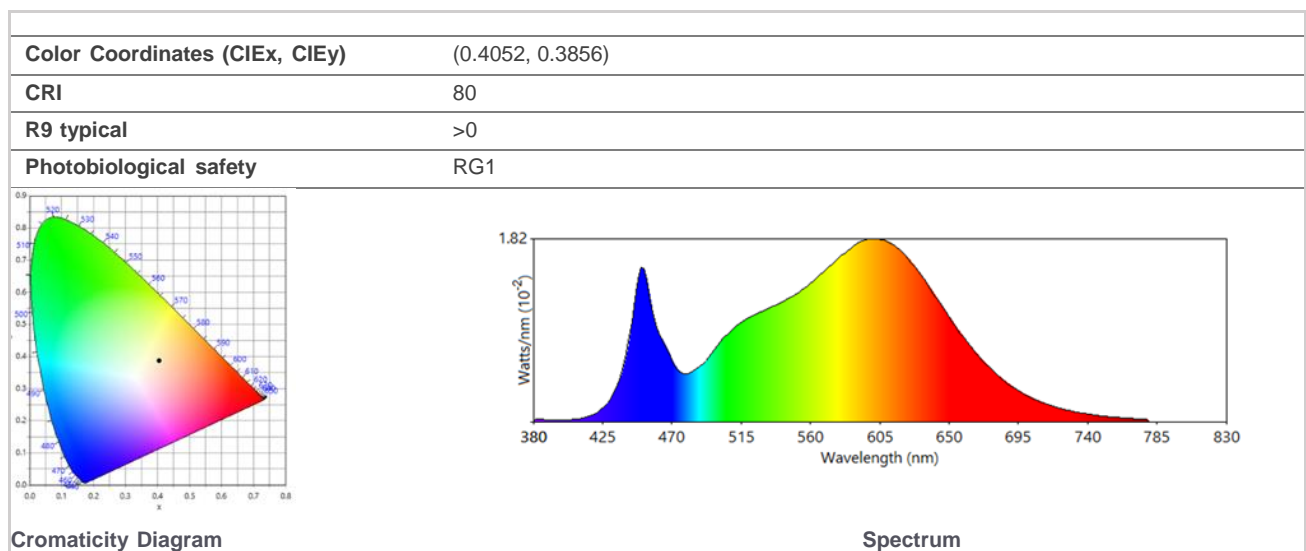
TFx00-G1-827



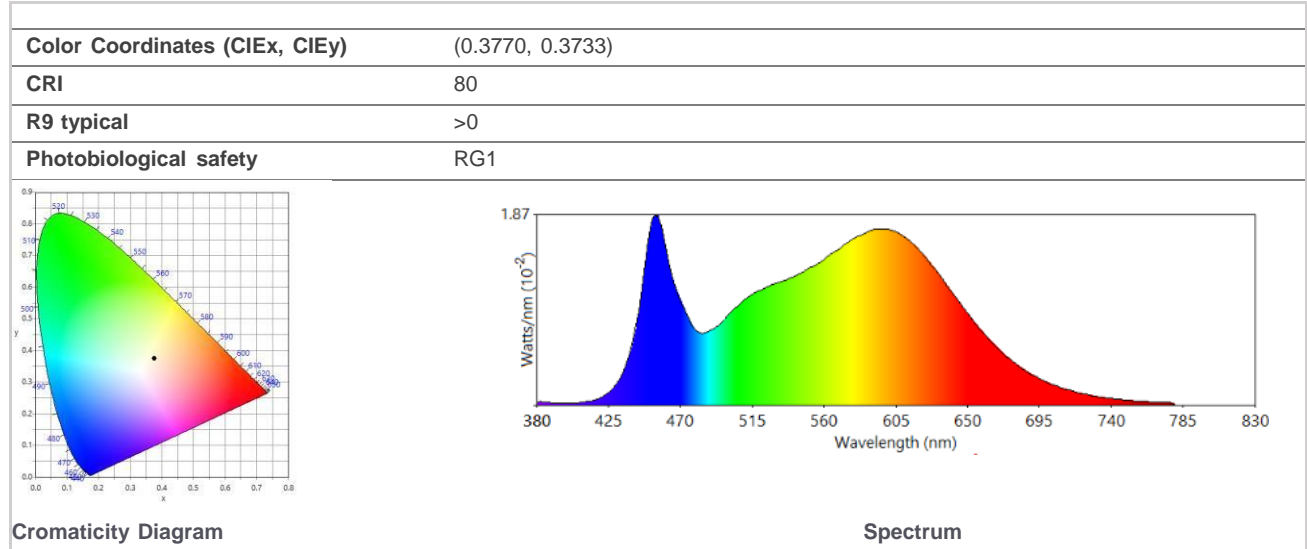
TFx00-G1-830



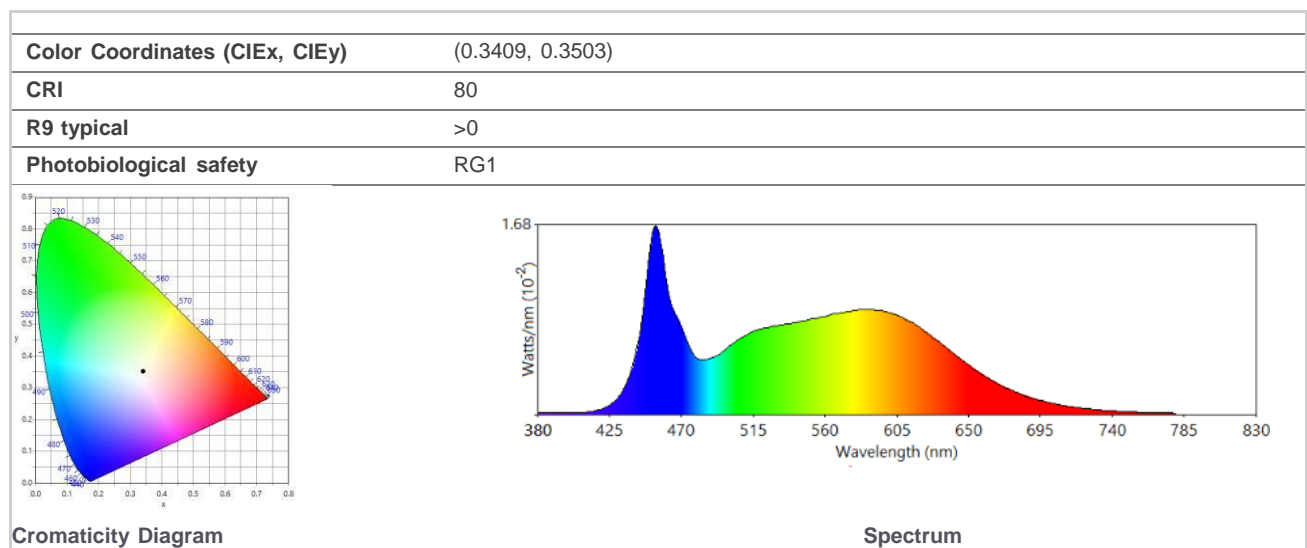
TFx00-G1-835



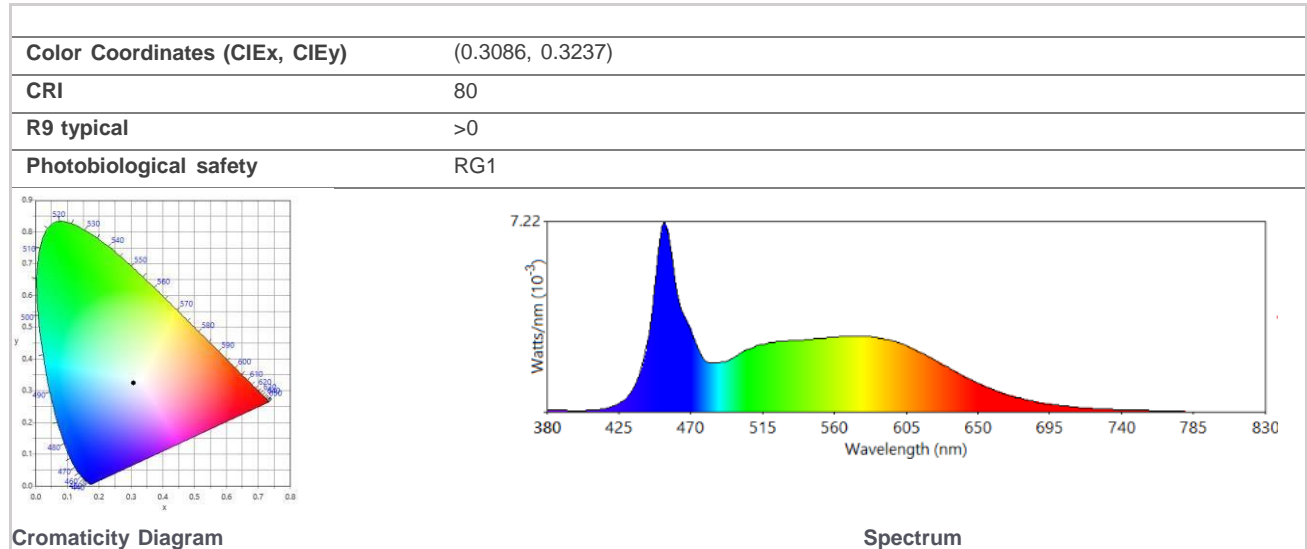
TFx00-G1-840



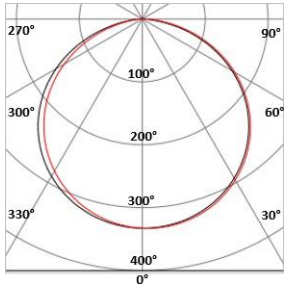
TFx00-G1-850



TFx00-G1-865

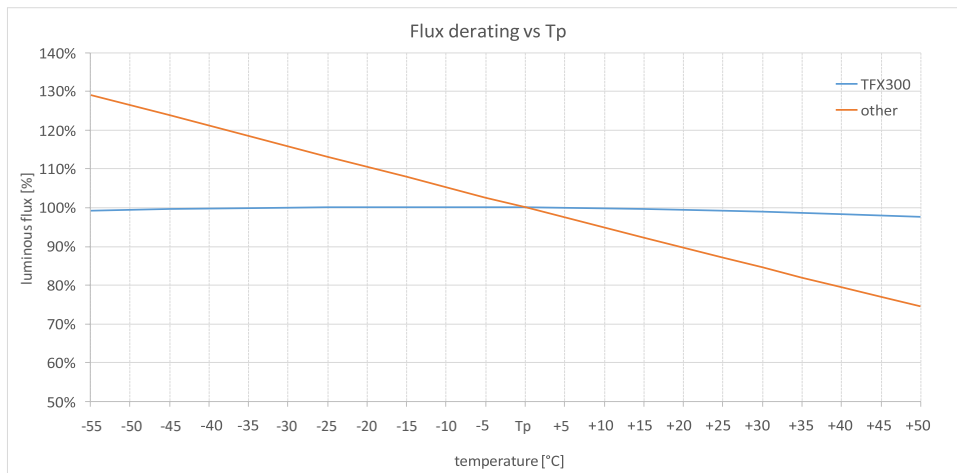


Light Distribution



C0-C180 —
 C90-C270 —

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 .



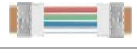


Lumen maintenance for TEC Flex

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
TF300-G1-827	4062172107020	225X 240X 120mm	1x Led strip
TF300-G1-830	4062172107044	225X 240X 120mm	1x Led strip
TF300-G1-840	4062172107068	225X 240X 120mm	1x Led strip
TF300-G1-850	4062172107082	225X 240X 120mm	1x Led strip
TF300-G1-865	4062172107105	225X 240X 120mm	1x Led strip
TF1000-G1-827	4062172107129	225X 240X 120mm	1x Led strip
TF1000-G1-830	4062172107143	225X 240X 120mm	1x Led strip
TF1000-G1-835	4062172250580	225X 240X 120mm	1x Led strip
TF1000-G1-840	4062172107167	225X 240X 120mm	1x Led strip
TF1000-G1-850	4062172107181	225X 240X 120mm	1x Led strip
TF1000-G1-865	4062172107204	225X 240X 120mm	1x Led strip
TF2000-G1-827	4062172107228	225X 240X 120mm	1x Led strip
TF2000-G1-830	4062172107242	225X 240X 120mm	1x Led strip
TF2000-G1-835	4062172250603	225X 240X 120mm	1x Led strip
TF2000-G1-840	4062172107266	225X 240X 120mm	1x Led strip
TF2000-G1-850	4062172107280	225X 240X 120mm	1x Led strip
TF2000-G1-865	4062172107303	225X 240X 120mm	1x Led strip















Optional Accessories

Product Type	Product description	Product code (EAN10)	EAN10 Package content	MOQ	
	2pin Connector 500mm cable	CONN-FLEX-2P-050 KIT 10PCS	4062172179591	10x Connectors	10
	2pin Connector 2000mm cable	CONN-FLEX-2P-200 KIT 10PCS	4062172179614	10x Connectors	10
	Jumper	FX-SC08-G2-CT4PJ	4052899464858	25x Jumpers	25
	Bridge 30 mm cable	CORNER-FLEX-4P-003 KIT 10PCS	4062172179638	10x Bridges	10
	Bridge 150 mm cable	CORNER-FLEX-4P-015 KIT 10PCS	4062172179676	10x Bridges	10
	2pin Connector 500mm cable	FX-SC08-G2-CT2PF-0500	4052899464735	20x Connector	20
	2pin Connector 1000mm cable	FX-SC08-G2-CT2PF-1000	4052899464766	20x Connector	20
	Extension wire 30 mm cable	FX-SC08-G1-FW4P-LIN-0030	4008321875587	100x Extension wire	100
	Extension wire 150 mm cable	FX-SC08-G1-FW4P-LIN-0150	4008321875563	50x Extension wire	50
	Extension wire 300 mm cable	FX-SC08-G1-FW4P-LIN-0300	4052899469259	50x Extension wire	50
















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

Profile System Combinations

Maximum recommended ambient temperature in case of surface mounting.

		 Surface mounting		TF300	TF1000	TF2000
Type	Product Description	Product code (EAN)	Ambient Temperature °C			
	Slim Track LTS-2000	4062172207300	50	50	45	
	Slim Track FX-QMS-G1-TU15H6-300	4052899448865	50	50	45	
	Slim Track FX-QMS-G1-TU15H6W3-300	4052899448889	50	50	45	
	Slim Track FX-QMS-G1-TU16H12-300	4052899448964	50	50	45	
	Slim Track FX-QMS-G1-TU16H12W3-300	4052899448988	50	50	45	
	Slim Track FX-QMS-G1-TR19H16-300	4052899449008	50	50	45	
	Slim Track FX-QMS-G1-TU16H12LS-300	4052899449046	50	50	45	
	Slim Track FX-QMS-G1-T45D19H19-300	4052899448667	50	50	48	
	Wide Track FX-QMW-G1-TK30D46H27-300	4052899448827	50	50	50	
	Wide Track FX-QMW-G1-TU26H10-300	4062172114165	50	50	50	
	Wide Track FX-QMW-G1-TU26H25W10-300	4052899448773	50	50	50	
	Wide Track FX-QMW-G1-TU26H25W2-300	4052899448841	50	50	50	
	Wide Track FX-QMW-G1-TU26H25-300	4052899448803	50	50	50	

Maximum recommended ambient temperature in case of recessed mounting.

		 Recessed mounting 		TF300	TF1000	TF2000
Type	Product Description	Product code (EAN)	Ambient Temperature °C			
	Slim Track LTS-2000	4062172207300	50	50	43	
	Slim Track FX-QMS-G1-TU15H6-300	4052899448865	50	50	43	
	Slim Track FX-QMS-G1-TU15H6W3-300	4052899448889	50	50	43	
	Slim Track FX-QMS-G1-TU16H12-300	4052899448964	50	50	43	
	Slim Track FX-QMS-G1-TU16H12W3-300	4052899448988	50	50	43	
	Slim Track FX-QMS-G1-TR19H16-300	4052899449008	50	50	43	
	Slim Track FX-QMS-G1-TU16H12LS-300	4052899449046	50	50	43	
	Slim Track FX-QMS-G1-T45D19H19-300	4052899448667	50	50	45	
	Wide Track FX-QMW-G1-TK30D46H27-300	4052899448827	50	50	50	
	Wide Track FX-QMW-G1-TU26H10-300	4062172114165	50	50	48	
	Wide Track FX-QMW-G1-TU26H25W10-300	4052899448773	50	50	48	
	Wide Track FX-QMW-G1-TU26H25W2-300	4052899448841	50	50	48	
	Wide Track FX-QMW-G1-TU26H25-300	4052899448803	50	50	48	

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

* 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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The OSRAM logo is displayed in a bold, orange, sans-serif font. The letters are closely spaced and have a slight shadow effect, giving it a three-dimensional appearance.