

Light is OSRAM

# LINEARlight FLEX

## Tunable White & Tunable Warm White

Set the right color temperature of light to simulate natural daylight or create a perfectly cozy atmosphere

LF1200/2000/3000/4000TW & LF3000TWW



### Features & Benefits

- High luminous flux up to 3800 lm/m
- Adjustable color temperature via Tunable White: 2700...6500 K and Tunable Warm White: 2200/2500...3500 K
- Color uniformity  $\leq 3$  SDCM\*
- TWW: Lifetime up to 60.000 h L80B10 at Tp point; TW: Lifetime up to 60.000 h L70B50 at Tp point
- Internal constant current regulator
- LM80 & LM79 compliant
- Great design freedom thanks to flexibility and cuttability of the LED strip
- Extraordinary design and high quality materials
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back
- Toolless connection with the optional CONNECTsystem
- Pre-soldered wires in TWW version
- Dimmable by PWM & DALI
- Reel-to-Reel technology
- Made in Italy

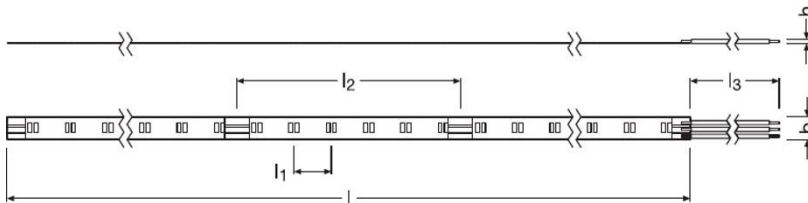
### Application areas

Cove lighting, Shop lighting, Offices, Dynamic lighting applications

### Standards

CE, ENEC 10 VDE, EAC, UL Recognized according UL 8750

### Dimension & Available lengths



|           | l<br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | l <sub>3</sub> *<br>mm | h<br>mm | b<br>mm |
|-----------|---------|----------------------|----------------------|------------------------|---------|---------|
| LF1200TW  | 9000    | 12.5                 | 75                   | -                      | 1.2     | 8       |
| LF2000TW  | 4500    | 12.5                 | 75                   | -                      | 1.2     | 8       |
| LF3000TW  | 3000    | 12.5                 | 75                   | -                      | 1.2     | 8       |
| LF4000TW  | 2100    | 12.5                 | 75                   | -                      | 1.2     | 8       |
| LF3000TWW | 2100    | 12.5                 | 75                   | 500                    | 1.45    | 8       |

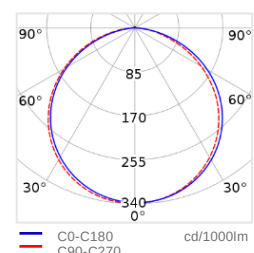
Lowest Bending Radius = 20 mm

Number LED/m = 160

\* Only TWW version available with pre-soldered wires

### Electrical & Output data

|                                           |                |
|-------------------------------------------|----------------|
| Nominal Voltage                           | 24.0 V         |
| Reverse voltage protection up to          | 25 V           |
| Temperature range in operation @ Tc point | -20°C...+85°C  |
| Storage Temperature                       | -40°C...+85°C  |
| Ambient Temperature                       | -20°C...+50 °C |



Beam Angle 120°

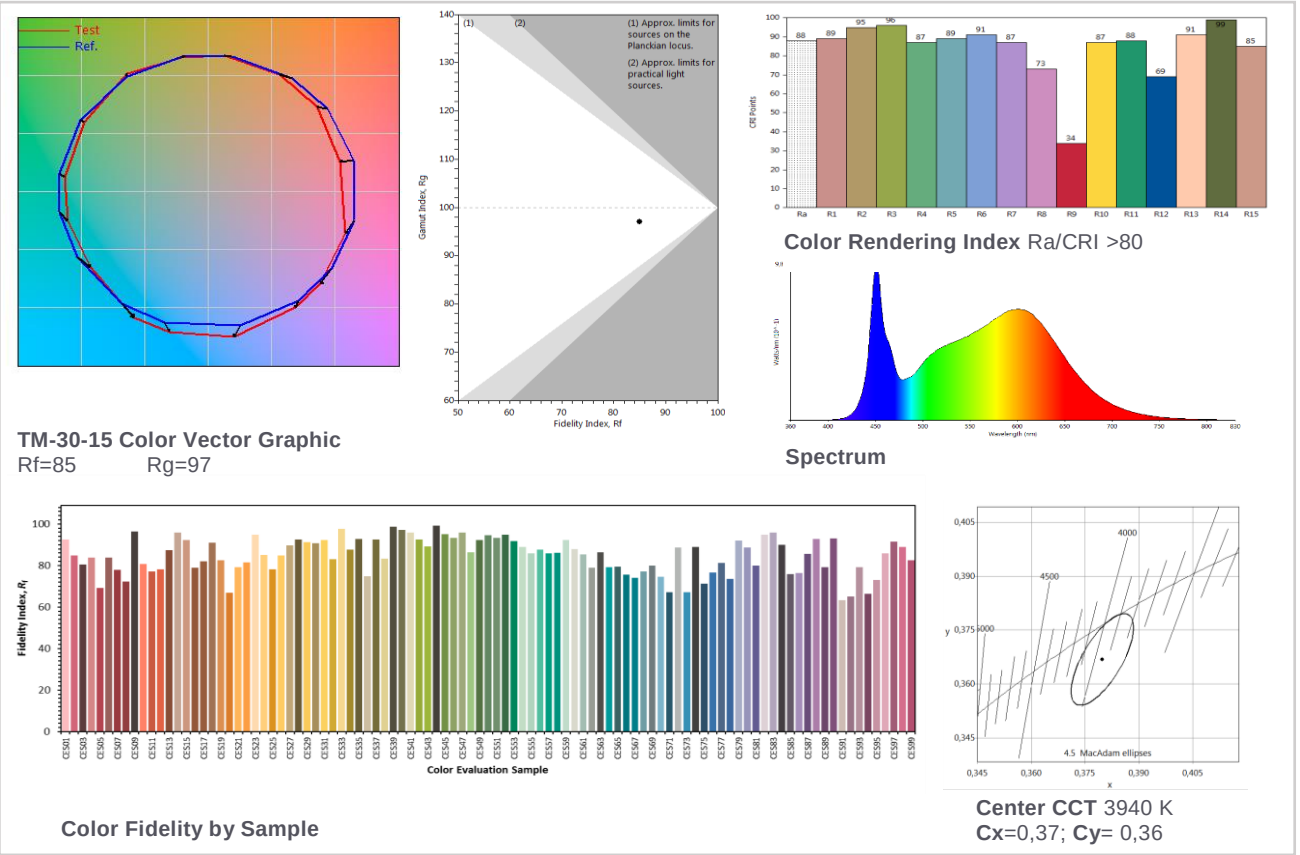
| TUNABLE WHITE        |                                                                                   | Color Temperature | CRI | Luminous Flux per meter lm/m | Power W/m | Luminous Efficacy lm/W | Performance Temp. Tp °C | Length m |
|----------------------|-----------------------------------------------------------------------------------|-------------------|-----|------------------------------|-----------|------------------------|-------------------------|----------|
| LF1200TW-G3-82765-09 |  | 2700-6500 K       | >80 | 1200                         | 10.5      | 114                    | 40                      | 9        |
| LF2000TW-G3-82765-04 |  | 2700-6500 K       | >80 | 2000                         | 18.5      | 108                    | 50                      | 4.5      |
| LF3000TW-G3-82765-03 |  | 2700-6500 K       | >80 | 3000                         | 30        | 100                    | 60                      | 3        |
| LF4000TW-G3-82765-02 |  | 2700-6500 K       | >80 | 3800                         | 36.8      | 103                    | 75                      | 2.1      |

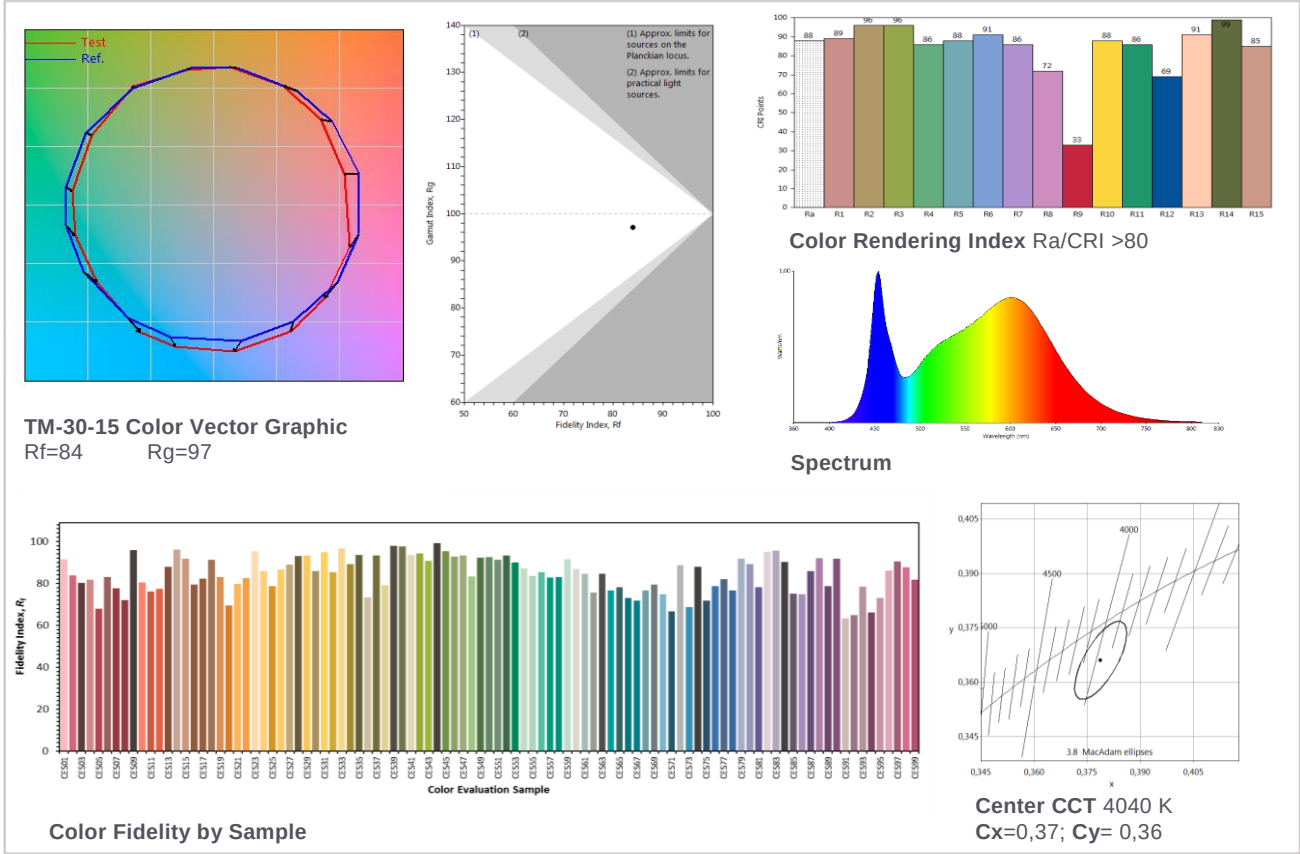
| TUNABLE WARM WHITE      |                                                                                   | Color Temperature | CRI | Luminous Flux per meter lm/m | Power W/m | Luminous Efficacy lm/W | Performance Temp. Tp °C | Length m |
|-------------------------|-----------------------------------------------------------------------------------|-------------------|-----|------------------------------|-----------|------------------------|-------------------------|----------|
| LF3000TWW-G1-822.835-02 |  | 2200-3500 K       | >80 | 3000                         | 33.3      | 90                     | 65                      | 2.1      |
| LF3000TWW-G1-825.835-02 |  | 2500-3500 K       | >80 | 3000                         | 31        | 97                     | 65                      | 2.1      |

Color output data

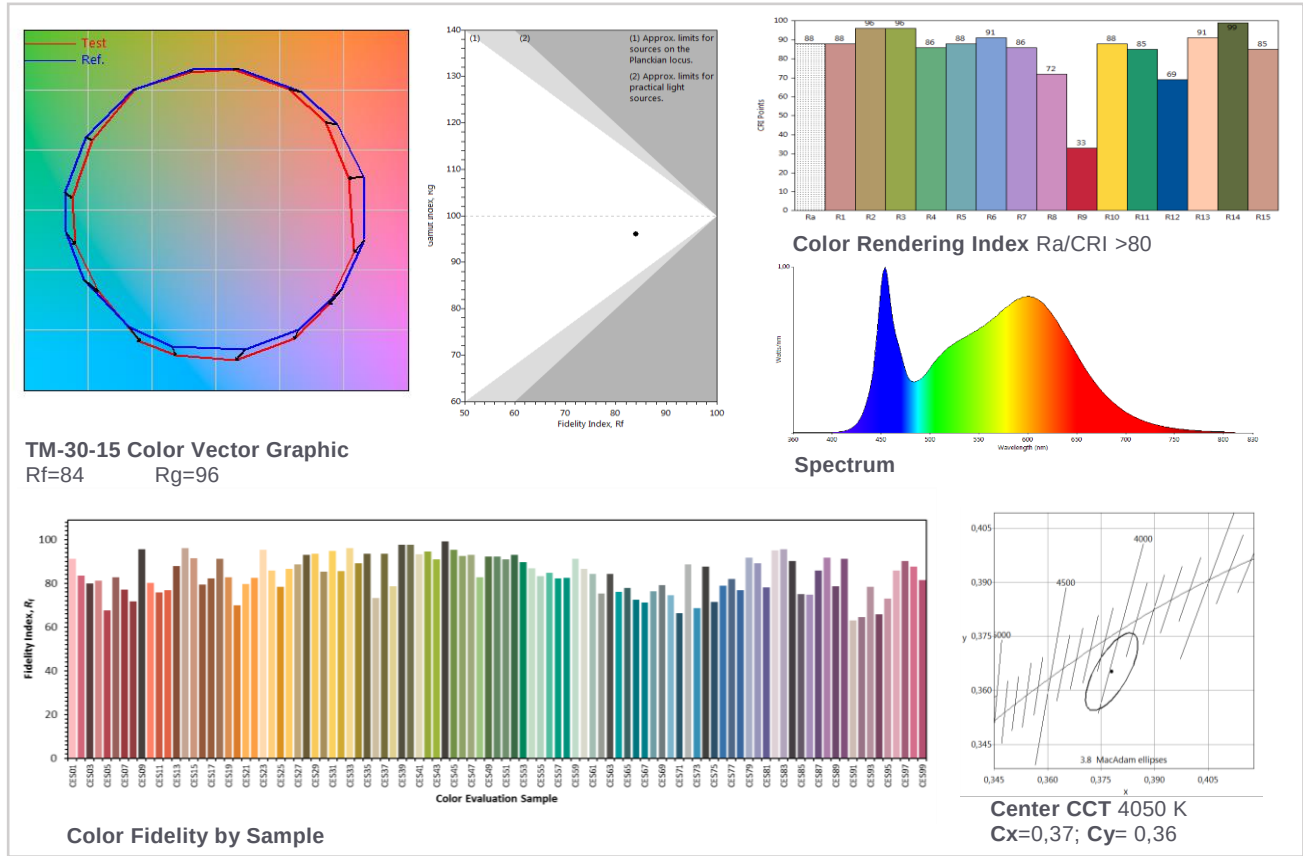
LF1200TW-G3-82765-09



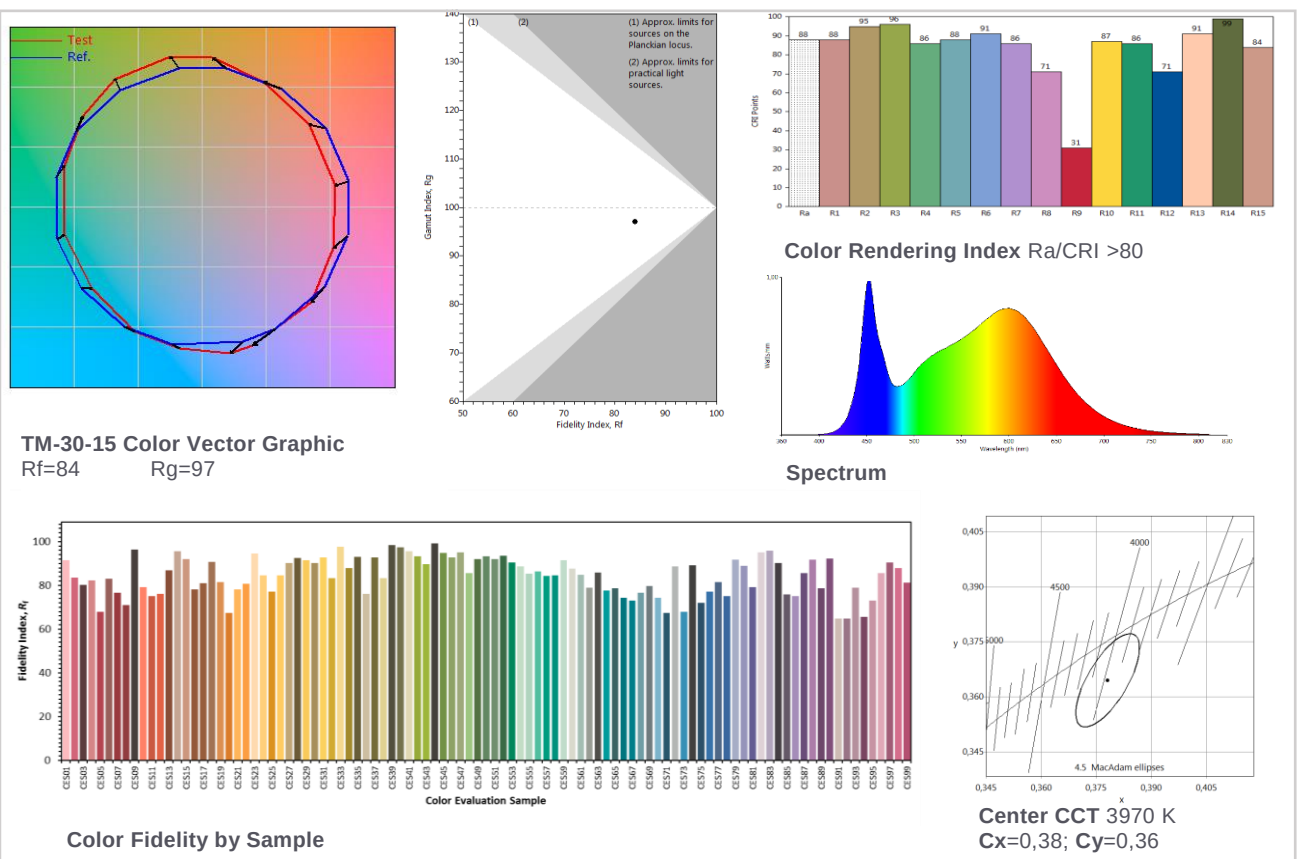
LF2000TW-G3-82765-04



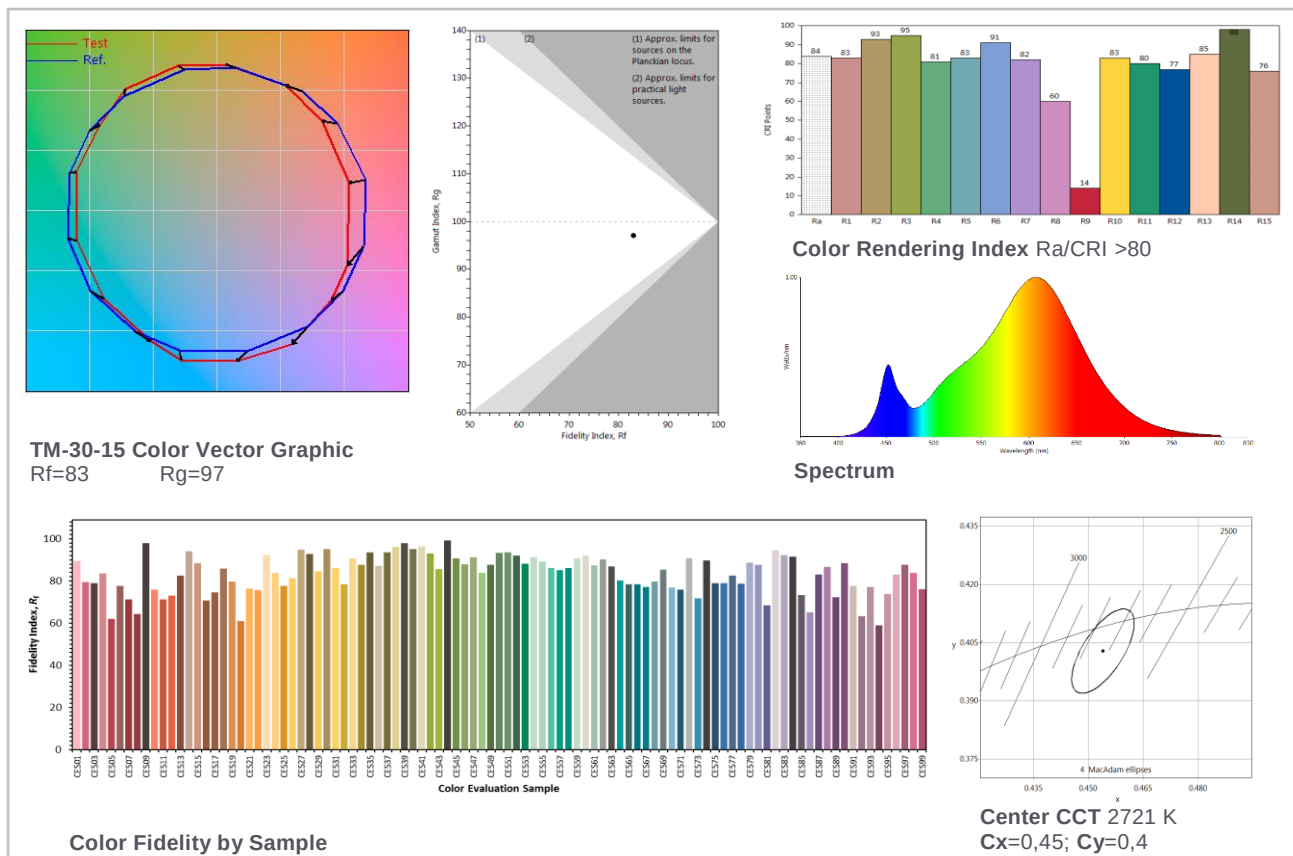
LF3000TW-G3-82765-03



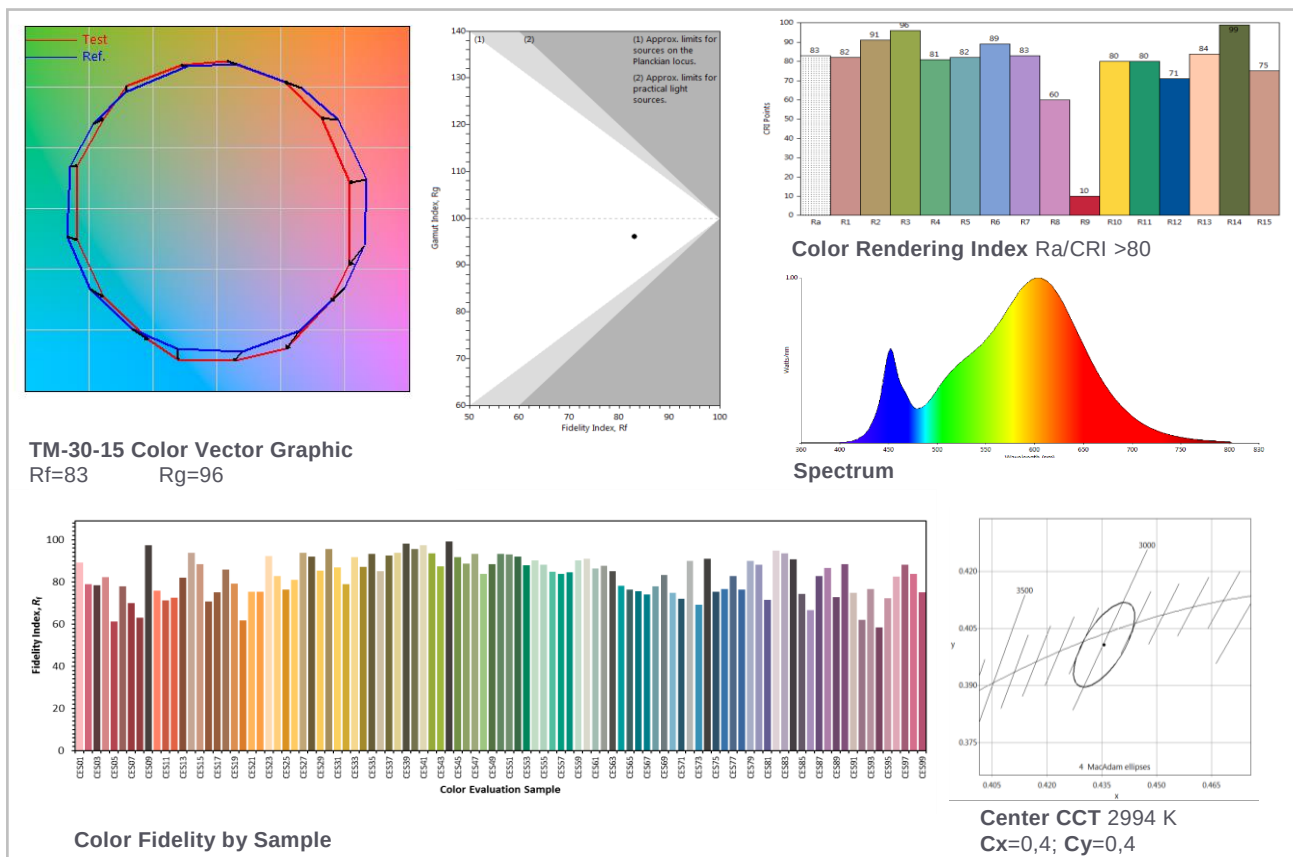
LF4000TW-G3-82765-02



## LF3000TWW-G1-822.835-02

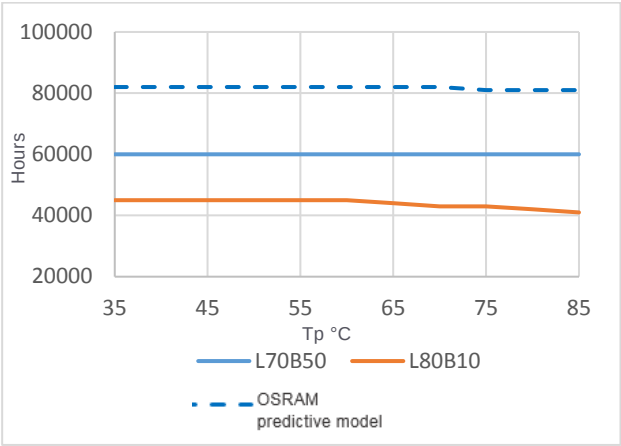


## LF3000TWW-G1-825.835-02

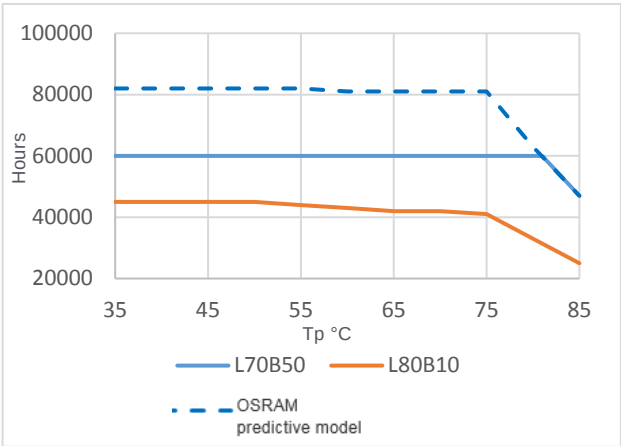


Lifetime

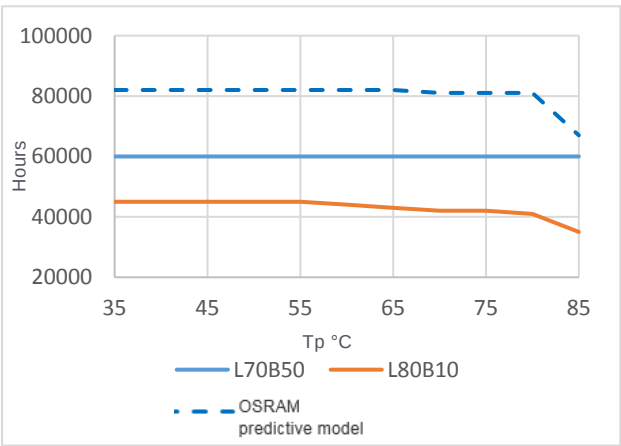
LF1200/2000 TW



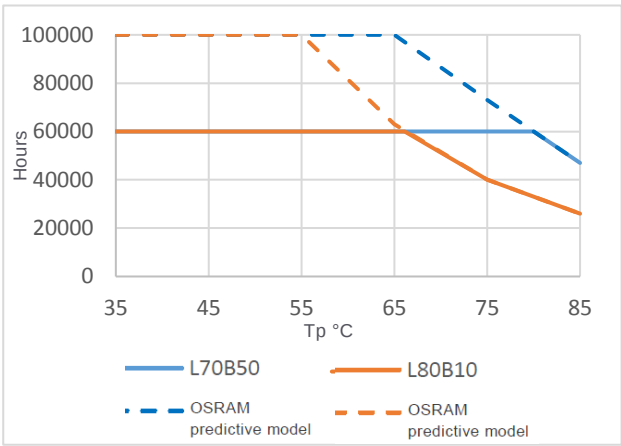
LF3000TW



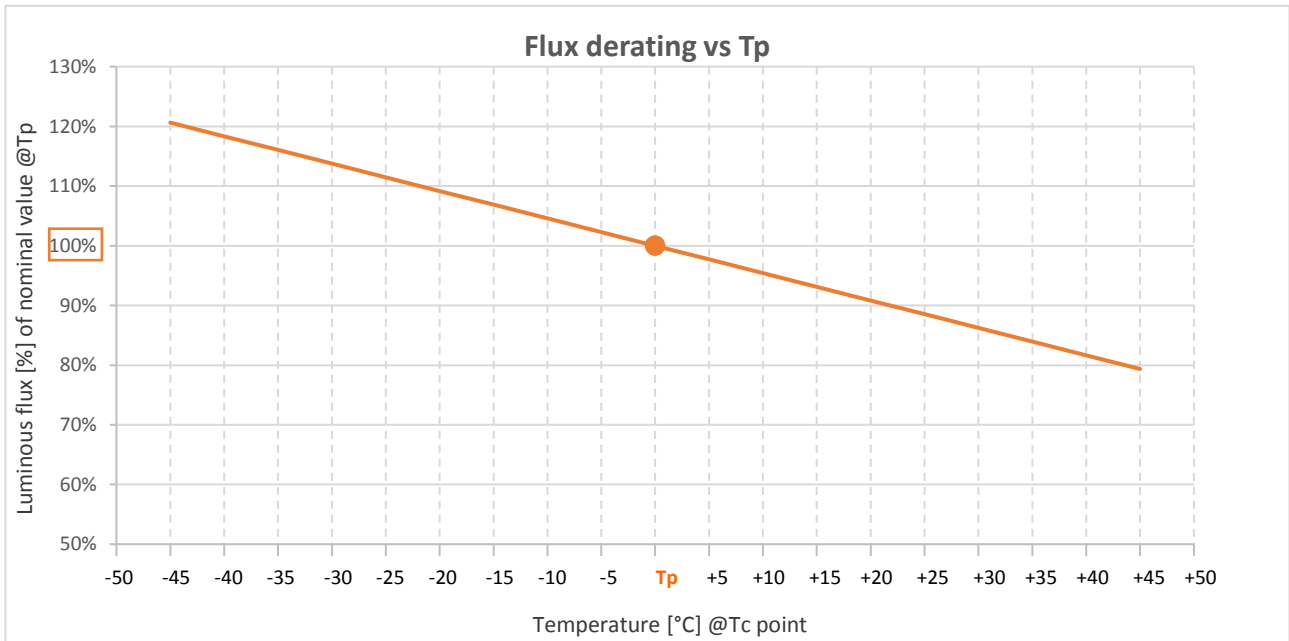
LF4000 TW



LF3000TWW



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.

Order Code

| Product description    | Product code  | Dimensions (length x width x height) | EAN10 Package content                |
|------------------------|---------------|--------------------------------------|--------------------------------------|
| LF1200TW-G3-82765-09   | 4052899953161 | 9000 x 8 x 1.45 mm                   | 1x Led strip; 1x connector           |
| LF2000TW-G3-82765-04   | 4052899953284 | 4500 x 8 x 1.45 mm                   | 1x Led strip; 1x connector           |
| LF3000TW-G3-82765-03   | 4052899953277 | 3000 x 8 x 1.45 mm                   | 1x Led strip; 1x connector           |
| LF4000TW-G3-82765-02   | 4052899953260 | 2100 x 8 x 1.45 mm                   | 1x Led strip; 1x connector           |
| LF3000TW-G1-822.835-02 | 4052899563339 | 2100 x 8 x 1.45 mm                   | 1x Led strip with pre-soldered wires |
| LF3000TW-G1-825.835-02 | 4052899563353 | 2100 x 8 x 1.45 mm                   | 1x Led strip with pre-soldered wires |

Choose your accessories

| Product Type                                                                                              | Product description      | Product code (EAN10) | EAN10 Package content    | MOQ |
|-----------------------------------------------------------------------------------------------------------|--------------------------|----------------------|--------------------------|-----|
|  Connector               | FX-SC08-G2-CT3PF-0500HF  | 4052899464735        | 1x Connector             | 20  |
|  Connector               | FX-SC08-G2-CT3PFE-0500HF | 4052899464766        | 1x Connector             | 20  |
|  Jumper                  | FX-SC08-G2-CT4PJ         | 4052899464858        | 1x Connector             | 25  |
|  Extension wire 30 mm   | FX-SC08-G1-FW4P-LIN-0030 | 4008321875587        | 5x Extension wire 30 mm  | 100 |
|  Extension wire 150 mm | FX-SC08-G1-FW4P-LIN-0150 | 4008321875563        | 5x Extension wire 150 mm | 50  |
|  Extension wire 300 mm | FX-SC08-G1-FW4P-LIN-0300 | 4052899469259        | 5x Extension wire 300 mm | 50  |



## Tracks System compatibility

The table reports the maximum recommended ambient temperature for each listed track in combination with LF TW and TWW in case of surface mounting. In this condition the expected Tc of LED strip is the maximum allowed.

| THERMAL MEASUREMENTS FOR SURFACE MOUNTING                                                      |                          |                    |                        |          |          |          |          |           |
|------------------------------------------------------------------------------------------------|--------------------------|--------------------|------------------------|----------|----------|----------|----------|-----------|
|                                                                                                |                          |                    |                        | LF1200TW | LF2000TW | LF3000TW | LF4000TW | LF3000TWW |
| Track Type                                                                                     | Product description      | Product code (EAN) | Ambient Temperature °C |          |          |          |          |           |
|  Slim Track   | LF-LTS-2100              | 4008321978981      | 50                     | 50       | 30       | -        | 30       |           |
|  Slim Track   | FX-QMS-G1-TU15H6-300     | 4052899448865      | 50                     | 45       | 25       | -        | -        |           |
|  Slim Track   | FX-QMS-G1-TU15H6W3-300   | 4052899448889      | 50                     | 45       | 25       | -        | -        |           |
|  Slim Track   | FX-QMS-G1-TU16H12-300    | 4052899448964      | 50                     | 50       | 30       | -        | 30       |           |
|  Slim Track   | FX-QMS-G1-TU16H12W3-300  | 4052899448988      | 50                     | 50       | 30       | -        | 30       |           |
|  Slim Track   | FX-QMS-G1-TR19H16-300    | 4052899449008      | 50                     | 50       | 30       | -        | 30       |           |
|  Slim Track   | FX-QMS-G1-TU16H12LS-300  | 4052899449046      | 50                     | 50       | 30       | -        | 30       |           |
|  Slim Track   | FX-QMS-G1-T45D19H19-300  | 4052899448667      | 50                     | 50       | 35       | -        | 35       |           |
|  Wide Track   | FX-QMW-G1-TK30D46H27-300 | 4052899448827      | 50                     | 50       | 40       | 30       | 40       |           |
|  Wide Track  | FX-QMW-G1-TU26H8-300     | 4052899448643      | 50                     | 50       | 30       | 25       | 30       |           |
|  Wide Track | FX-QMW-G1-TU26H25W10-300 | 4052899448773      | 50                     | 50       | 35       | -        | 30       |           |
|  Wide Track | FX-QMW-G1-TU26H25W2-300  | 4052899448841      | 50                     | 50       | 35       | -        | 30       |           |
|  Wide Track | FX-QMW-G1-TU26H25-300    | 4052899448803      | 50                     | 50       | 35       | -        | 30       |           |

The table reports the maximum recommended ambient temperature for each listed track in combination with TW and TWW in case of recessed mounting. In this condition the expected Tc of LED strip is the maximum allowed.

| THERMAL MEASUREMENTS FOR RECESSED MOUNTING                                                     |                          |                    |                        |          |          |          |          |           |
|------------------------------------------------------------------------------------------------|--------------------------|--------------------|------------------------|----------|----------|----------|----------|-----------|
|                                                                                                |                          |                    |                        | LF1200TW | LF2000TW | LF3000TW | LF4000TW | LF3000TWW |
| Track Type                                                                                     | Product description      | Product code (EAN) | Ambient Temperature °C |          |          |          |          |           |
|  Slim Track | LF-LTS-2100              | 4008321978981      | 50                     | 35       | -        | -        | 25       |           |
|  Slim Track | FX-QMS-G1-TU15H6-300     | 4052899448865      | 50                     | 35       | -        | -        | -        |           |
|  Slim Track | FX-QMS-G1-TU15H6W3-300   | 4052899448889      | 50                     | 35       | -        | -        | -        |           |
|  Slim Track | FX-QMS-G1-TU16H12-300    | 4052899448964      | 50                     | 35       | -        | -        | 25       |           |
|  Slim Track | FX-QMS-G1-TU16H12W3-300  | 4052899448988      | 50                     | 35       | -        | -        | 25       |           |
|  Slim Track | FX-QMS-G1-TR19H16-300    | 4052899449008      | 50                     | 35       | -        | -        | 25       |           |
|  Slim Track | FX-QMS-G1-TU16H12LS-300  | 4052899449046      | 50                     | 35       | -        | -        | 25       |           |
|  Slim Track | FX-QMS-G1-T45D19H19-300  | 4052899448667      | 50                     | 40       | 25       | -        | 30       |           |
|  Wide Track | FX-QMW-G1-TK30D46H27-300 | 4052899448827      | 50                     | 50       | 30       | -        | 30       |           |
|  Wide Track | FX-QMW-G1-TU26H8-300     | 4052899448643      | 50                     | 35       | -        | -        | 25       |           |
|  Wide Track | FX-QMW-G1-TU26H25W10-300 | 4052899448773      | 50                     | 40       | 25       | -        | 25       |           |
|  Wide Track | FX-QMW-G1-TU26H25W2-300  | 4052899448841      | 50                     | 40       | 25       | -        | 25       |           |
|  Wide Track | FX-QMW-G1-TU26H25-300    | 4052899448803      | 50                     | 40       | 25       | -        | 25       |           |

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

For further information please write to [flex-support@osram.com](mailto:flex-support@osram.com) or consult our Flex Configurator at [www.osram.com/flex-configurator](http://www.osram.com/flex-configurator)



## Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

\*The color uniformity shown is a result of internal theoretical and statistical evaluation under specific conditions; it is intended to provide our customers with an estimation of color uniformity in real applications. Despite LEDs used in OSRAM strips are single BIN 3 SDCM ellipse, their careful combination in a LED strip with proper manufacturing process, results in a mixed light through a diffusive material which is within a 3 SDCM ellipse with any mixing of both channels, with a probability greater than 90%.

Due to variability of each single chip and statistical method, this indication cannot be considered as legally binding. The guaranteed color consistency claim can be found inside the official data sheets of every product.

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)

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