

Light is OSRAM

**OSRAM**

# LINEARlight® FLEX Protect Low Power

The best solution for amazing decorative lighting

LFP500-G1



## Features & Benefits

- Luminous flux up to 520 lm/m
- IP67 protection
- Color uniformity  $\leq 2$  SDCM\*
- Lifetime up to 60.000 h L80B10 at T<sub>p</sub>
- CRI 90 and 80 options
- Internal constant current regulator
- LM80 & LM79 compliant
- High light quality and large selection of light color temperatures
- Dimmable by OPTOTRONIC® LED drivers
- Great design freedom thanks to flexibility and cuttability of the LED strip
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back
- Outdoor use possible: UV and salt mist resistant
- Reel-to-Reel technology
- Made in Italy

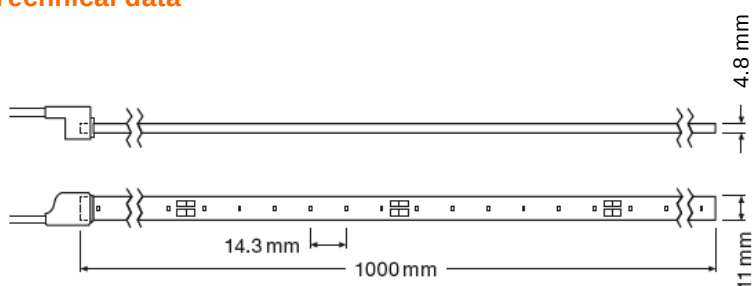
## Application areas

Decorative Lighting, Path lighting

## Standards

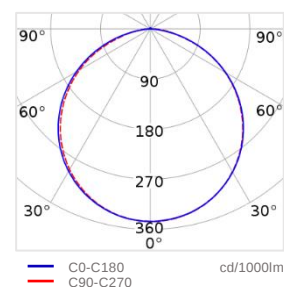
CE, ENEC 10, EAC, VDE, CSA and UL recognized

## Technical data



Lowest Bending Radius = 50mm  
Number LED/m = 70  
Smallest unit = 100 mm

|                                                       |              |
|-------------------------------------------------------|--------------|
| Nominal Voltage                                       | 24.0 V       |
| Reverse voltage protection up to                      | 25.0 V       |
| Temperature range in operation @ T <sub>c</sub> point | -30...+70 °C |
| Storage Temperature                                   | -40...+85 °C |
| Ambient Temperature with profile **                   | -30...+50 °C |



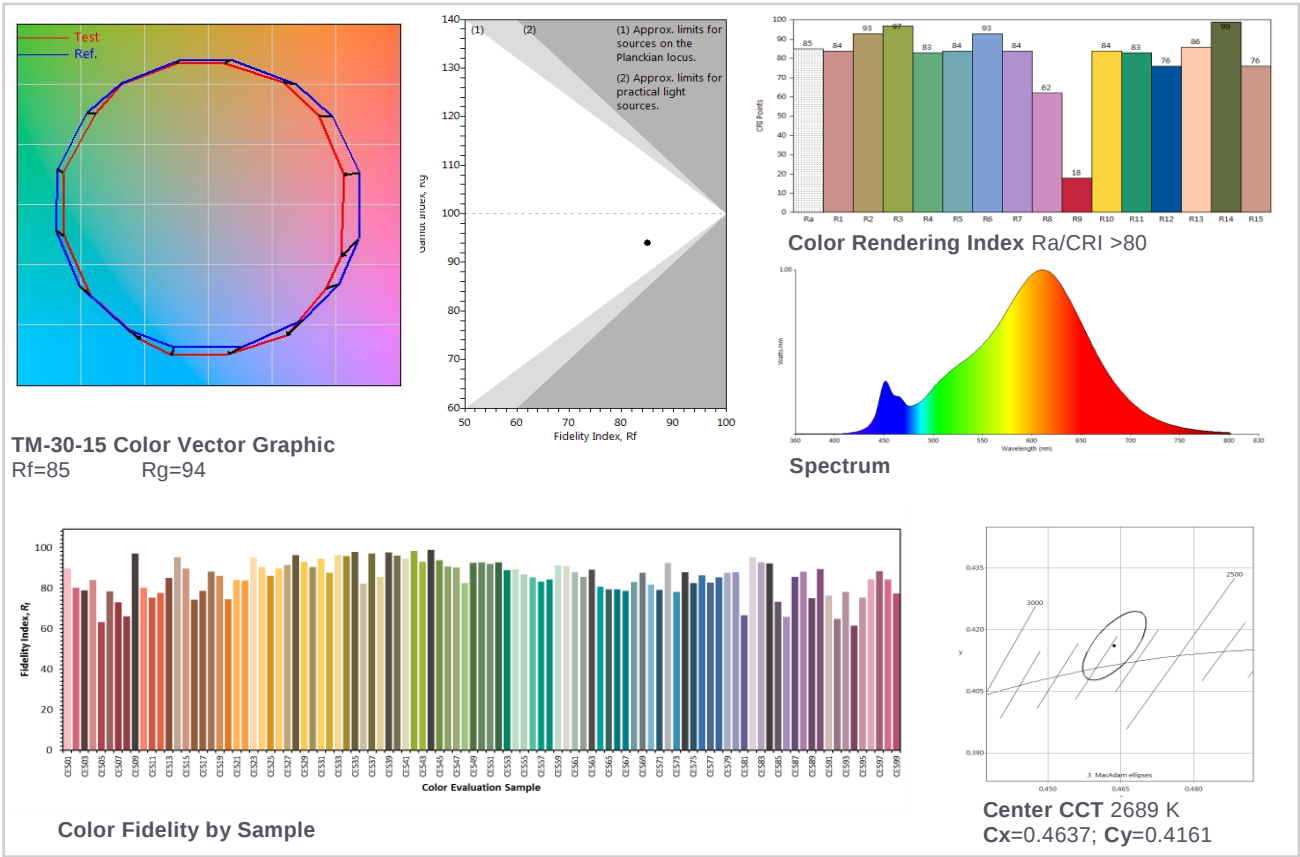
Beam Angle 120°

## Technical data

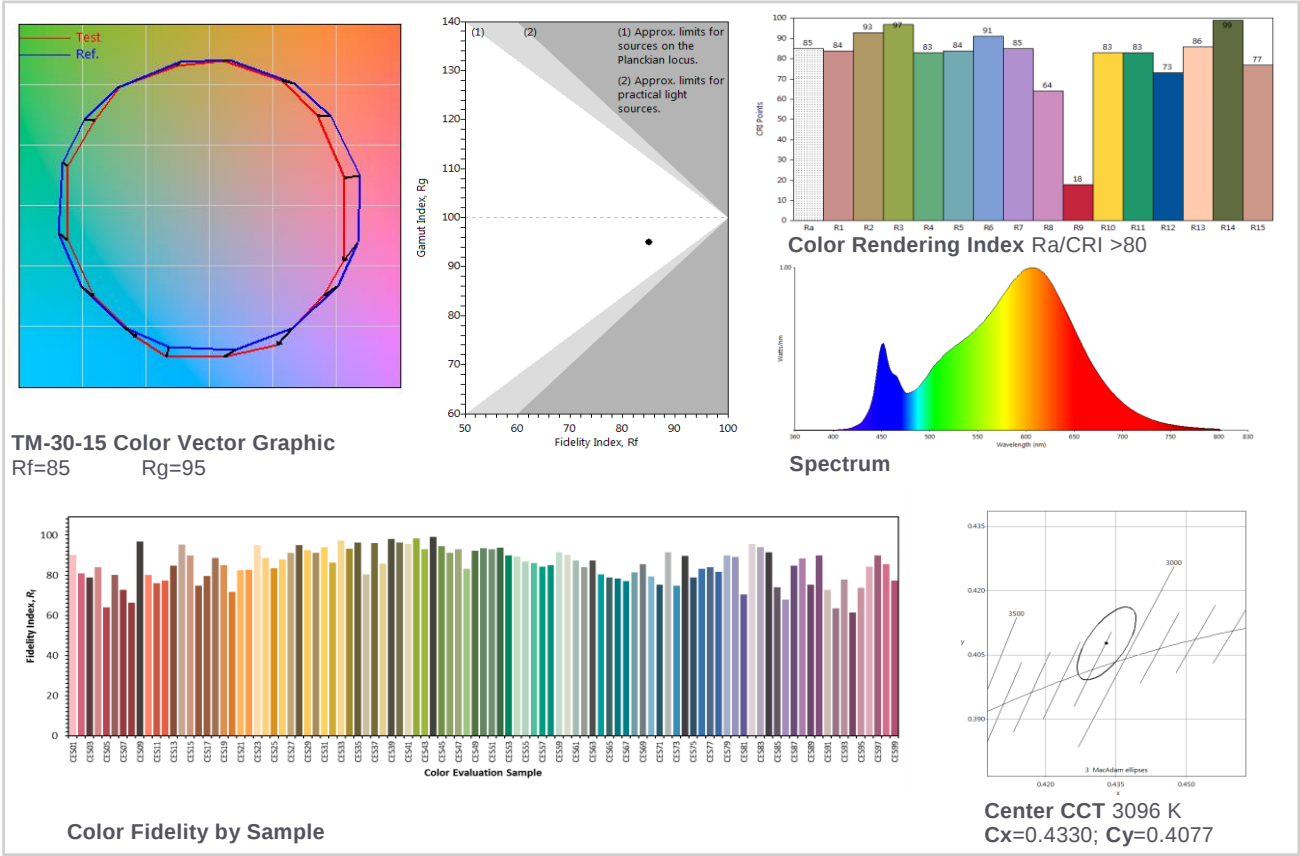
| LFP500           |                                                                                   | Nominal CCT<br>See color output data | CRI | Luminous Flux<br>per meter lm/m | Power<br>W/m | Luminous Efficacy<br>lm/W | Performance Temp.<br>Tp °C | Length<br>m |
|------------------|-----------------------------------------------------------------------------------|--------------------------------------|-----|---------------------------------|--------------|---------------------------|----------------------------|-------------|
| LFP500-G1-827-10 |  | 2700 K                               | >80 | 440                             | 3.9          | 113                       | 35                         | 10          |
| LFP500-G1-830-10 |  | 3000 K                               | >80 | 480                             | 3.9          | 123                       | 35                         | 10          |
| LFP500-G1-835-10 |  | 3500 K                               | >80 | 480                             | 3.9          | 123                       | 35                         | 10          |
| LFP500-G1-840-10 |  | 4000 K                               | >80 | 520                             | 3.9          | 133                       | 35                         | 10          |
| LFP500-G1-850-10 |  | 5000 K                               | >80 | 520                             | 3.9          | 133                       | 35                         | 10          |
| LFP500-G1-865-10 |  | 6500 K                               | >80 | 520                             | 3.9          | 133                       | 35                         | 10          |
| LFP500-G1-927-10 |  | 2700 K                               | >90 | 360                             | 3.9          | 92                        | 35                         | 10          |
| LFP500-G1-935-10 |  | 3500 K                               | >90 | 400                             | 3.9          | 103                       | 35                         | 10          |
| LFP500-G1-940-10 |  | 4000 K                               | >90 | 400                             | 3.9          | 103                       | 35                         | 10          |
| LFP500-G1-965-10 |  | 6500 K                               | >90 | 440                             | 3.9          | 113                       | 35                         | 10          |

Color output data

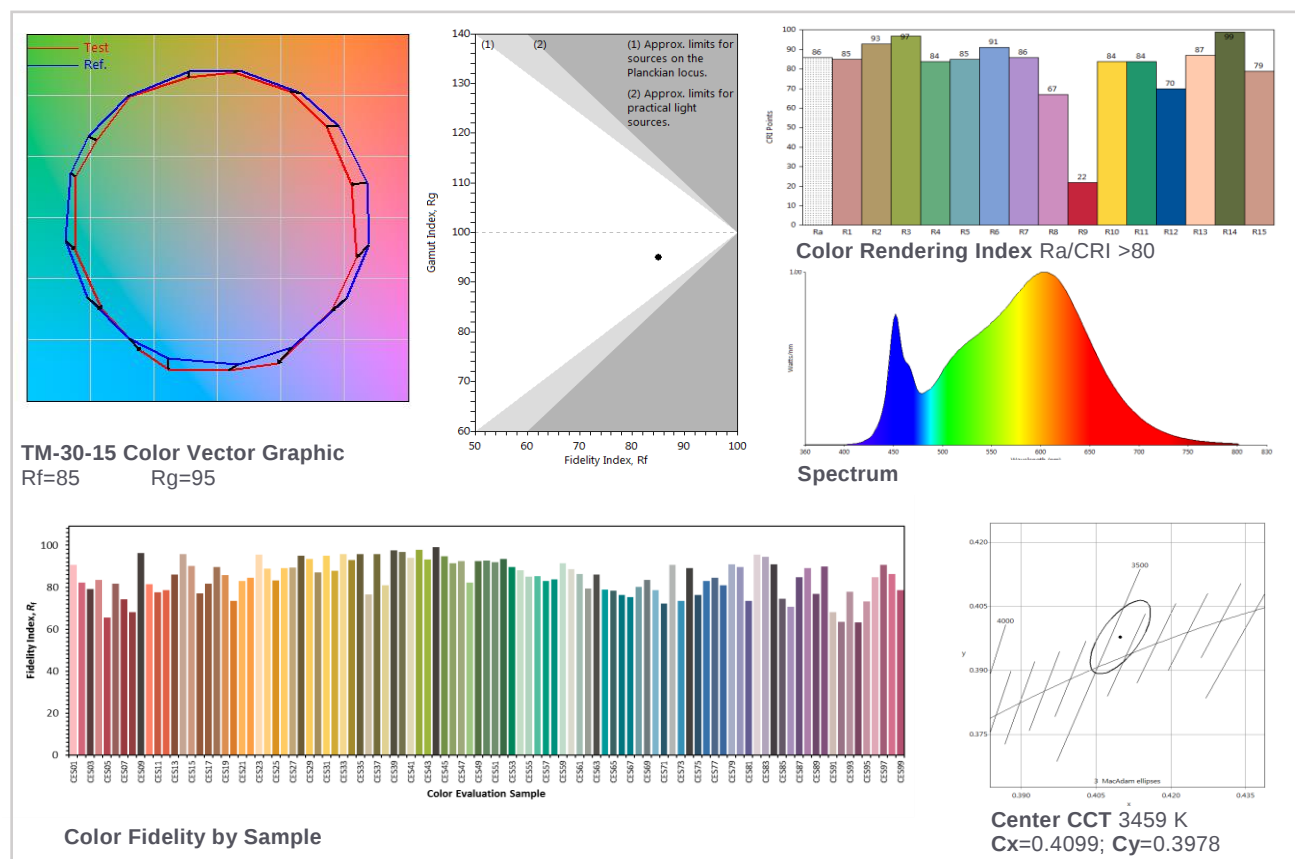
LFP500-G1-827



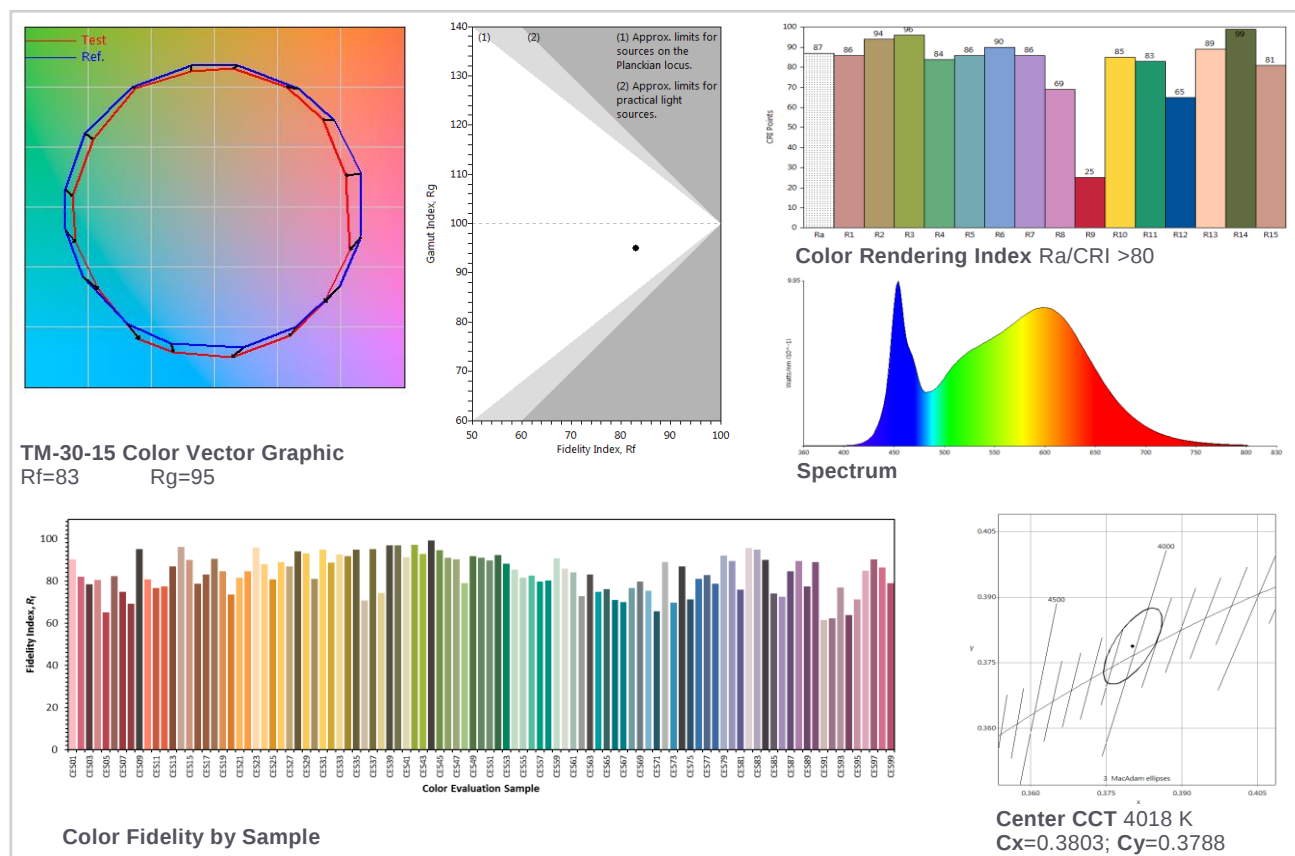
LFP500-G1-830



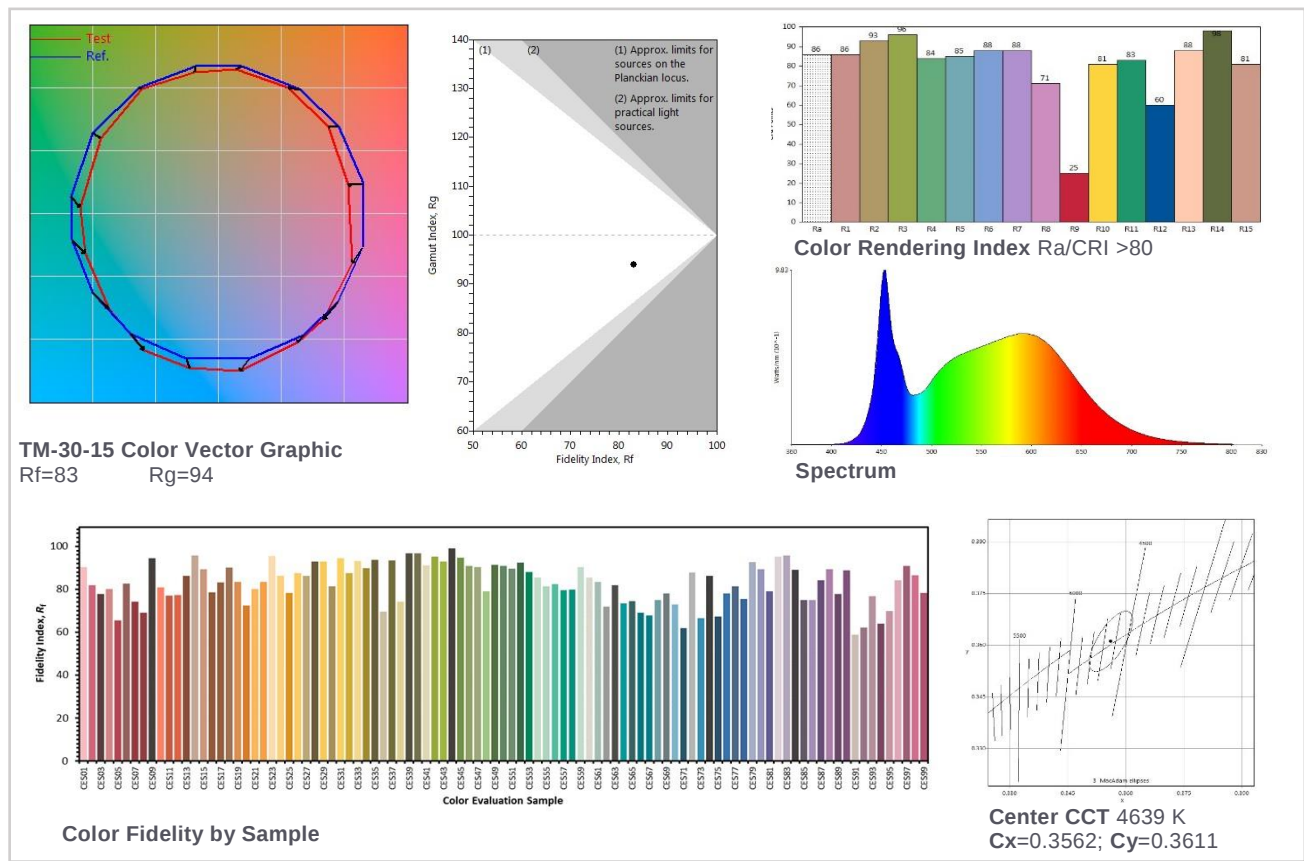
## LFP500-G1-835



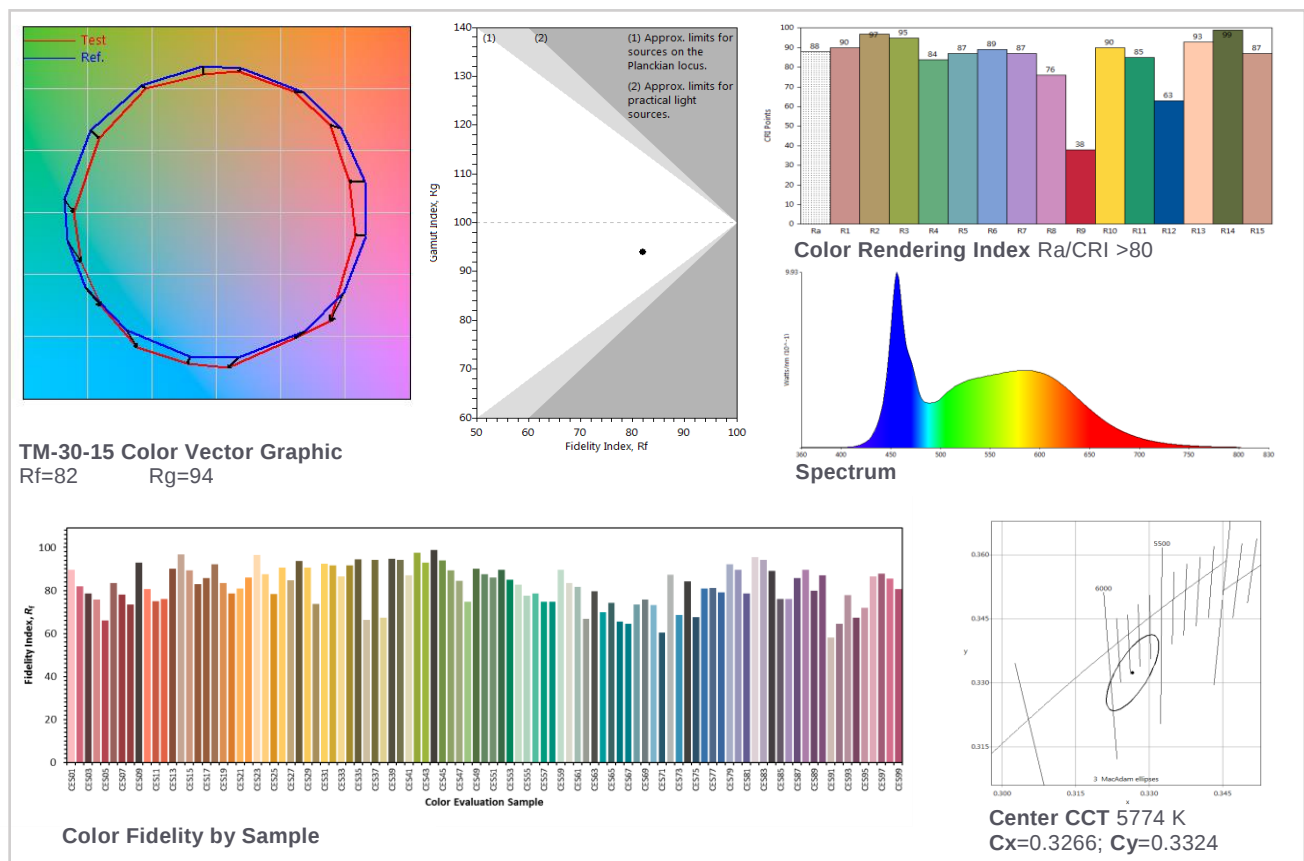
## LFP500-G1-840



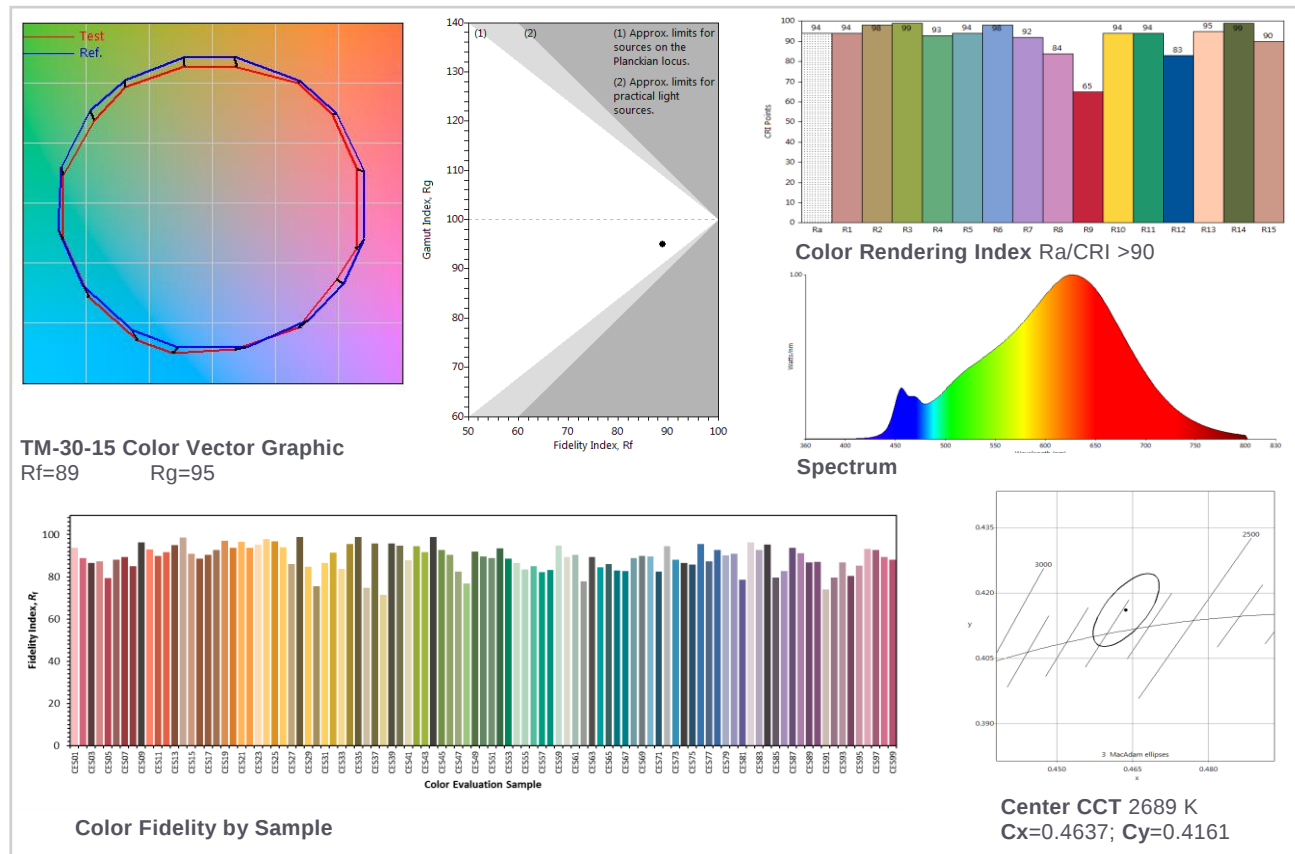
LFP500-G1-850



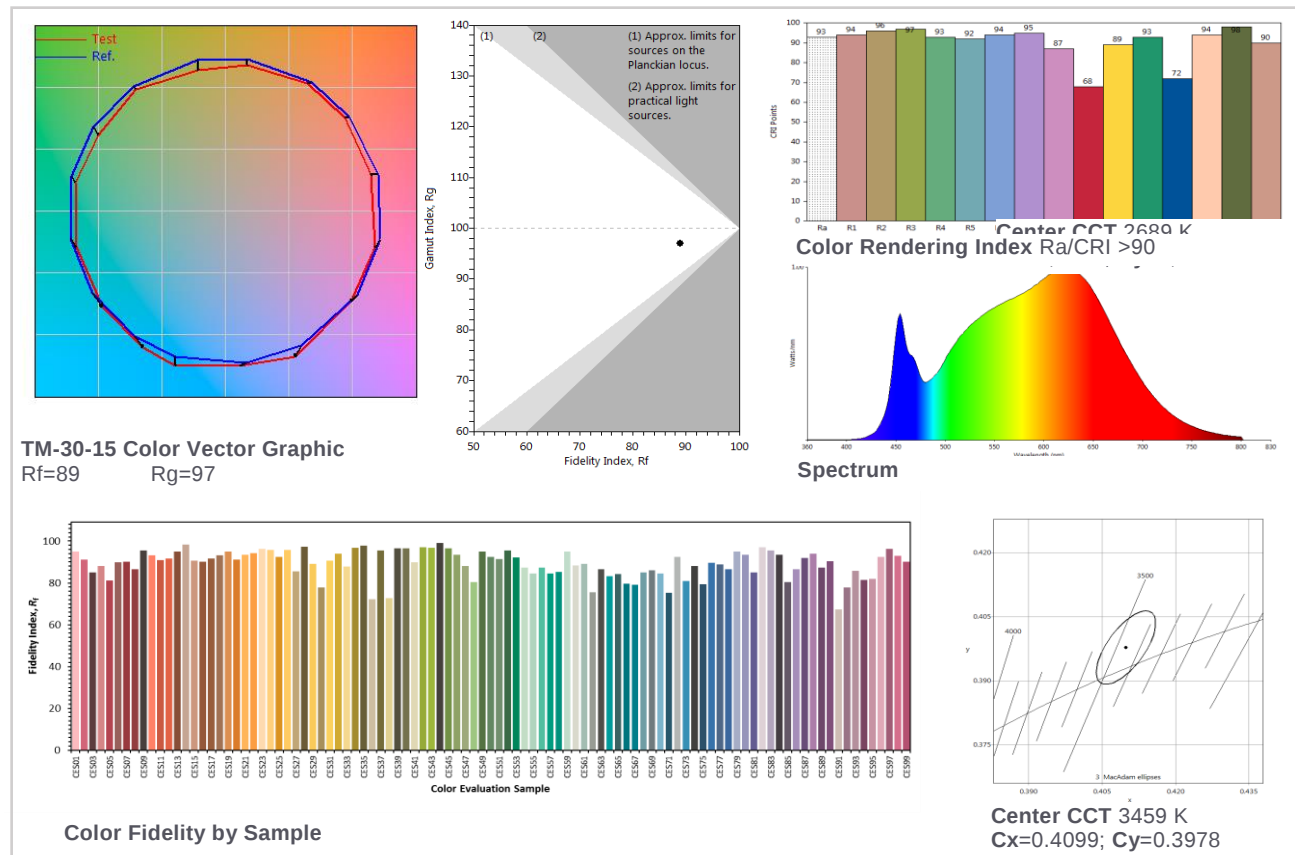
LFP500-G1-865



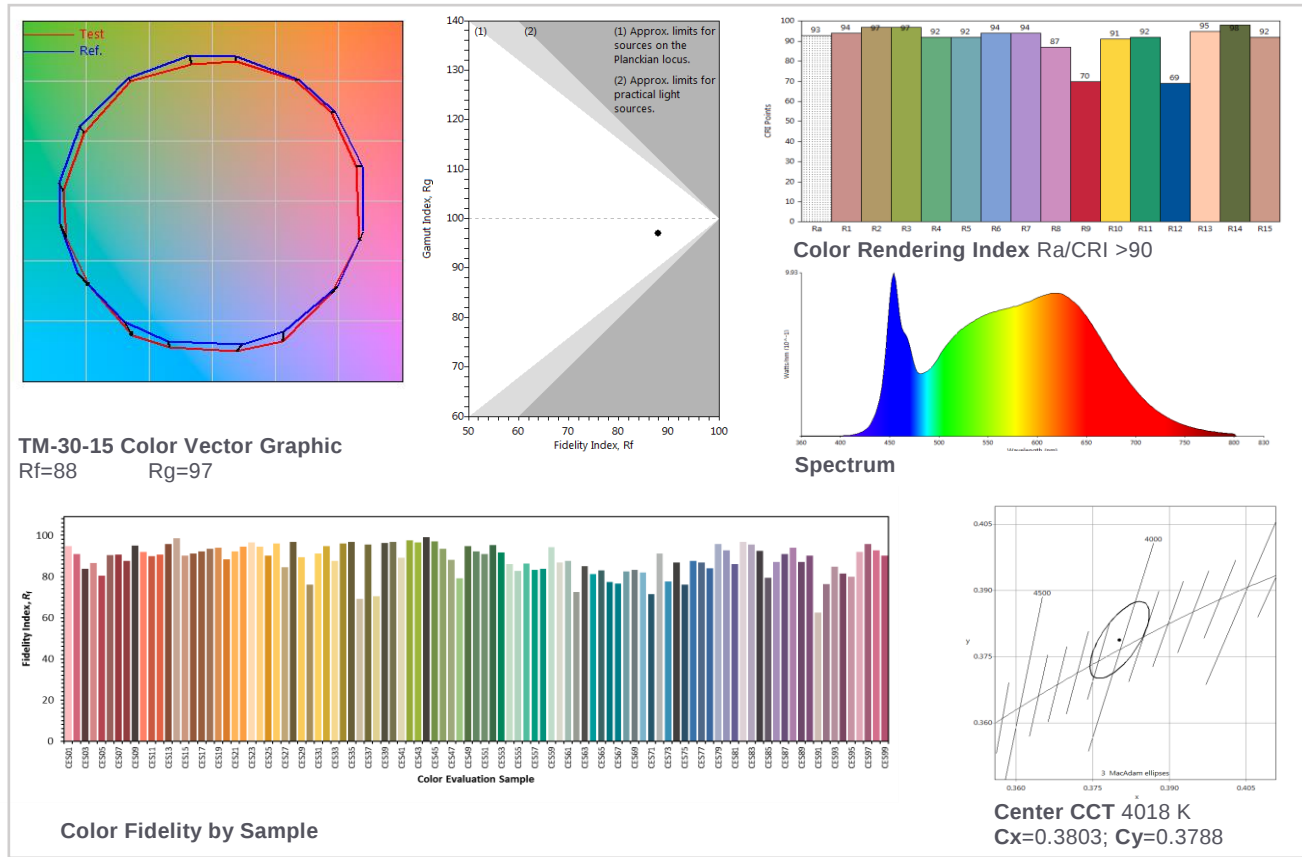
## LFP500-G1-927



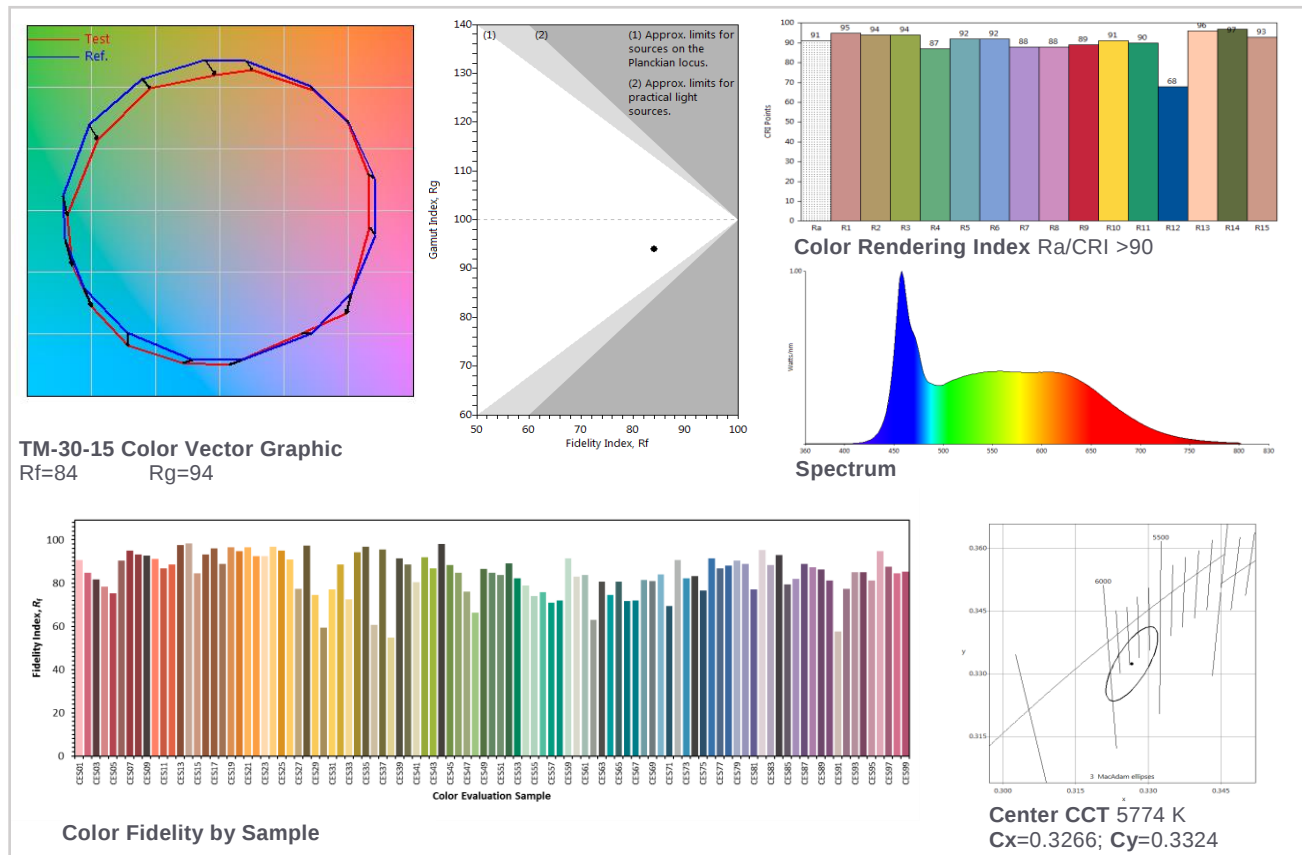
## LFP500-G1-935



## LFP500-G1-940

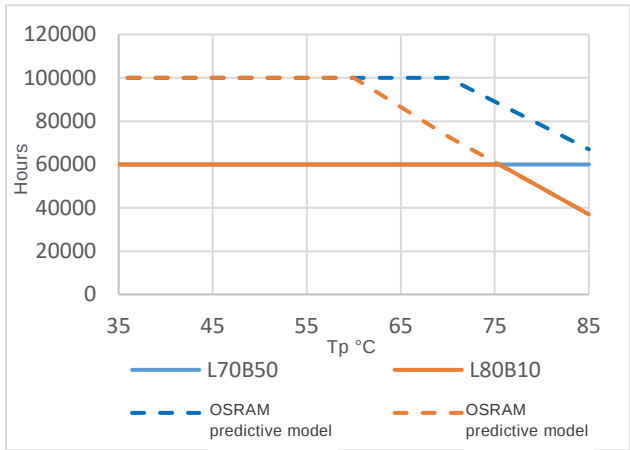


## LFP500-G1-965

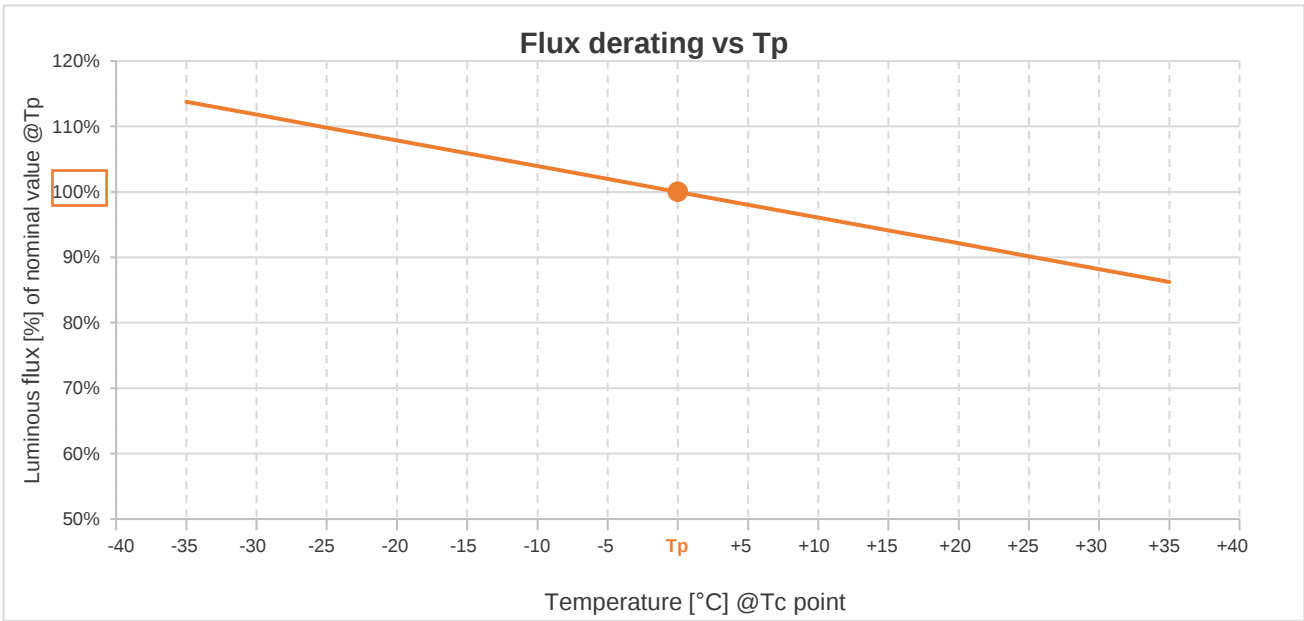


Lifetime

LF500



Luminous Flux maintenance according to  $T_p$  value



**Note:** Light flux varies with the temperature measured @  $T_c$  point; nominal values is given @  $T_c = T_p$ . Flux increases when  $T_c$  decreases.

## Order Code

| Product description     | Product code  | Dimensions (length x width x height) | EAN10 Package content                          |
|-------------------------|---------------|--------------------------------------|------------------------------------------------|
| <b>LFP500-G1-827-10</b> | 4052899575400 | 10000 x 11 x 4 mm                    | 1x Led strip<br>1x connector already installed |
| <b>LFP500-G1-830-10</b> | 4052899575424 | 10000 x 11 x 4 mm                    | 1x Led strip<br>1x connector already installed |
| <b>LFP500-G1-835-10</b> | 4052899575448 | 10000 x 11 x 4 mm                    | 1x Led strip<br>1x connector already installed |
| <b>LFP500-G1-840-10</b> | 4052899575462 | 10000 x 11 x 4 mm                    | 1x Led strip<br>1x connector already installed |
| <b>LFP500-G1-850-10</b> | 4062172061810 | 10000 x 11 x 4 mm                    | 1x Led strip<br>1x connector already installed |
| <b>LFP500-G1-865-10</b> | 4052899575486 | 10000 x 11 x 4 mm                    | 1x Led strip<br>1x connector already installed |
| <b>LFP500-G1-927-10</b> | 4052899595217 | 10000 x 11 x 4 mm                    | 1x Led strip<br>1x connector already installed |
| <b>LFP500-G1-935-10</b> | 4052899575523 | 10000 x 11 x 4 mm                    | 1x Led strip<br>1x connector already installed |
| <b>LFP500-G1-940-10</b> | 4052899575547 | 10000 x 11 x 4 mm                    | 1x Led strip<br>1x connector already installed |
| <b>LFP500-G1-965-10</b> | 4052899575561 | 10000 x 11 x 4 mm                    | 1x Led strip<br>1x connector already installed |

## Choose your accessories

| Product Type                                                                                            | Product description      | Product code (EAN10) | EAN10 Package content               |
|---------------------------------------------------------------------------------------------------------|--------------------------|----------------------|-------------------------------------|
|  <b>End cap IP67</b>   | <b>LF-ENDCAP 1P67 LP</b> | 4062172016360        | 10x endcap,<br>1x glue              |
|  <b>Connector IP67</b> | <b>LF-2PIN IP67 LP</b>   | 4062172016414        | 5x connector,<br>5x endcap, 1x glue |
|  <b>Jumper IP67</b>   | <b>LF-2CONN IP67 LP</b>  | 4062172016384        | 5x jumper                           |

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

## Profile System compatibility

The table reports the maximum recommended ambient temperature for each listed profile in combination with LFP500, in case of surface or recessed mounting. In these conditions the expected Tc of LED strip is the maximum allowed.

|                                                                                                  |                                 |                    |                        |  SURFACE MOUNTING |  RECESSED MOUNTING |
|--------------------------------------------------------------------------------------------------|---------------------------------|--------------------|------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Track Type                                                                                       | Product description             | Product code (EAN) | Ambient Temperature °C | Ambient Temperature °C                                                                               | Ambient Temperature °C                                                                                  |
|  Slim Profile | <b>LF-LTS-2100</b>              | 4008321978981      | 50                     |                                                                                                      | 50                                                                                                      |
|  Slim Profile | <b>FX-QMS-G1-TU15H6-300</b>     | 4052899448865      | 50                     |                                                                                                      | 50                                                                                                      |
|  Slim Profile | <b>FX-QMS-G1-TU15H6W3-300</b>   | 4052899448889      | 50                     |                                                                                                      | 50                                                                                                      |
|  Slim Profile | <b>FX-QMS-G1-TU16H12-300</b>    | 4052899448964      | 50                     |                                                                                                      | 50                                                                                                      |
|  Slim Profile | <b>FX-QMS-G1-TU16H12W3-300</b>  | 4052899448988      | 50                     |                                                                                                      | 50                                                                                                      |
|  Slim Profile | <b>FX-QMS-G1-TR19H16-300</b>    | 4052899449008      | 50                     |                                                                                                      | 50                                                                                                      |
|  Slim Profile | <b>FX-QMS-G1-TU16H12LS-300</b>  | 4052899449046      | 50                     |                                                                                                      | 50                                                                                                      |
|  Slim Profile | <b>FX-QMS-G1-T45D19H19-300</b>  | 4052899448667      | 50                     |                                                                                                      | 50                                                                                                      |
|  Wide Profile | <b>FX-QMW-G1-TK30D46H27-300</b> | 4052899448827      | 50                     |                                                                                                      | 50                                                                                                      |
|  Wide Profile | <b>FX-QMW-G1-TU26H8-300</b>     | 4052899448643      | 50                     |                                                                                                      | 50                                                                                                      |
|  Wide Profile | <b>FX-QMW-G1-TU26H25W10-300</b> | 4052899448773      | 50                     |                                                                                                      | 50                                                                                                      |
|  Wide Profile | <b>FX-QMW-G1-TU26H25W2-300</b>  | 4052899448841      | 50                     |                                                                                                      | 50                                                                                                      |
|  Wide Profile | <b>FX-QMW-G1-TU26H25-300</b>    | 4052899448803      | 50                     |                                                                                                      | 50                                                                                                      |

**Note:** the table is for application evaluation only; always ensure that Tc will 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. 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)

\* 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 2SDCM ellipse, with a probability greater than 90%.

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

\*\* Always ensure that Tc will not exceed the maximum allowed value.

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)

**OSRAM**