



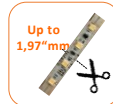
LINEARlight[®] FLEX Protect Uniformity IP66/68

Weatherproof LED strip for high quality homogeneous lighting.
LFP800S-G5 / LFP1200S-G5 / LFP2000S-G5

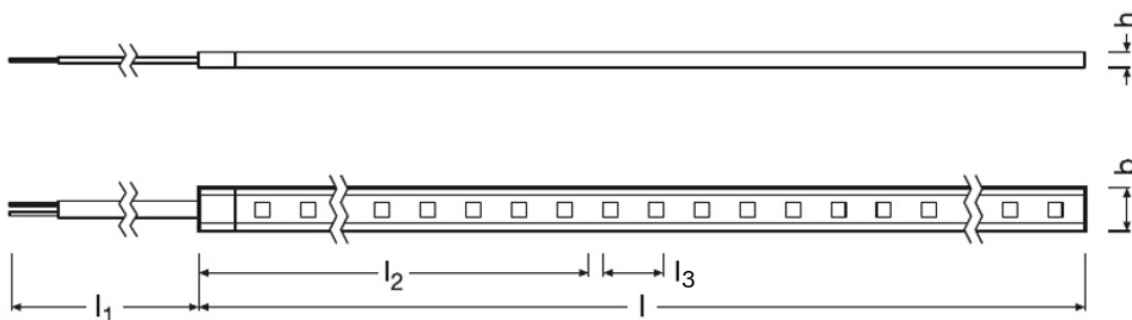
Features & Benefits



- Flexible and cuttable LED strip up to 1,97"
- Luminous flux: up to 610 lm/ft
- High color fidelity with CRI 95+, 90+ and 80+ for premium design.
- LEDs per foot: 36 led/ft
- Outdoor use possible: UV and salt mist tested
- Outstanding color uniformity ≤ 2 SDCM* for consistent, seamless lighting.
- Dot-free illumination even in ultra-shallow profiles.
- Long-lasting performance up to 60,000 h (L90B10) with SDT Technology.
- Internal constant-current regulators protect each single cut unit.
- Ultra-smooth dimming down to 0.1% with Inventronics OPTOTRONIC[®] drivers.
- Durable IP67/IP68 - fully sealed and filled with crystalline optical grade silicone;
- Premium-quality LEDs with a wide selection of color temperatures.
- Easy installation on smooth surfaces with self-adhesive backing.
- Reliable Reel-to-Reel technology.
- High-speed protection against accidental miswiring up to 25V.
- Durable IP66/68 fully sealed and filled with crystalline optical grade silicone;
- Pre-soldered wires and optional Connection System for quick setup.
- Proudly Made in Italy with advanced engineering and premium materials.



Technical drawings



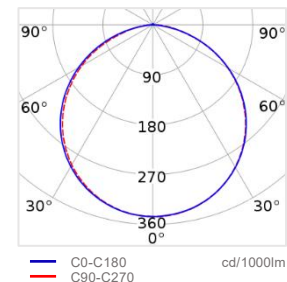
| CRI80 / 90 | L [inch] | l1 [inch] | l2 [inch] | l3 [inch] | h [inch] | b [inch] |
|------------|----------|-----------|-----------|-----------|----------|----------|
| LFP800S | 393.7 | 19.7 | 1,97 | 0,28 | 0,18 | 4,4 |
| LFP1200S | 393.7 | 19.7 | 1,97 | 0,28 | 0,18 | 4,4 |
| LFP2000S | 196.9 | 19.7 | 1,97 | 0,28 | 0,18 | 4,4 |
| CRI95 | L [inch] | l1 [inch] | l2 [inch] | l3 [inch] | h [inch] | b [inch] |
| LFP800S | 393.7 | 19.7 | 1,97 | 0,28 | 0,18 | 4,4 |
| LFP1200S | 196.9 | 19.7 | 1,97 | 0,28 | 0,18 | 4,4 |
| LFP2000S | 196.9 | 19.7 | 1,97 | 0,28 | 0,18 | 4,4 |

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Lowest Bending Radius = 1,97"

Max. operable length = product length.

| | |
|---|------------------|
| Nominal Voltage | 24.0 V |
| Reverse voltage protection up to | 25 V |
| Temperature range in operation @ Tc point | -22 °F...+185 °F |
| Storage Temperature | -40 °F...+185 °F |
| Ambient Temperature with profile ** | -22 °F...+12 °F |



**max ambient temperature strongly depends from which kind of profile will be used. For this reason, we always recommend to prepare an installation mockup and measure the Tc.

Technical data

| CRI 80+ | Nominal CCT <small>See color output data</small> | Luminous Flux lm/ft. | Power W/ft. | Luminous Efficacy lm/W | Order Code | Length ft. |
|-----------------------|---|-------------------------|----------------|---------------------------|---------------|---------------|
| LFP800S-G5-825-10 L1 | 2500 K | 244 | 2,4 | 109 | 6937186129703 | 32.8 |
| LFP800S-G5-827-10 L1 | 2700 K | 244 | 2,2 | 117 | 6937186129727 | 32.8 |
| LFP800S-G5-830-10 L1 | 3000 K | 244 | 2,0 | 125 | 6937186129741 | 32.8 |
| LFP800S-G5-840-10 L1 | 4000 K | 244 | 1,9 | 131 | 6937186129789 | 32.8 |
| LFP1200S-G5-825-10 L2 | 2500 K | 366 | 3,5 | 108 | 6937186129949 | 32.8 |
| LFP1200S-G5-827-10 L2 | 2700 K | 366 | 3,2 | 115 | 6937186129963 | 32.8 |
| LFP1200S-G5-830-10 L2 | 3000 K | 366 | 3,0 | 124 | 6937186129987 | 32.8 |
| LFP1200S-G5-840-10 L2 | 4000 K | 366 | 2,9 | 128 | 6937186130006 | 32.8 |
| LFP2000S-G5-825-05 L1 | 2500 K | 610 | 6,0 | 107 | 6937186130167 | 16.4 |
| LFP2000S-G5-827-05 L1 | 2700 K | 610 | 5,5 | 113 | 6937186130181 | 16.4 |
| LFP2000S-G5-830-05 L1 | 3000 K | 610 | 5,3 | 118 | 6937186138538 | 16.4 |
| LFP2000S-G5-840-05 L1 | 4000 K | 610 | 4,6 | 132 | 6937186130204 | 16.4 |

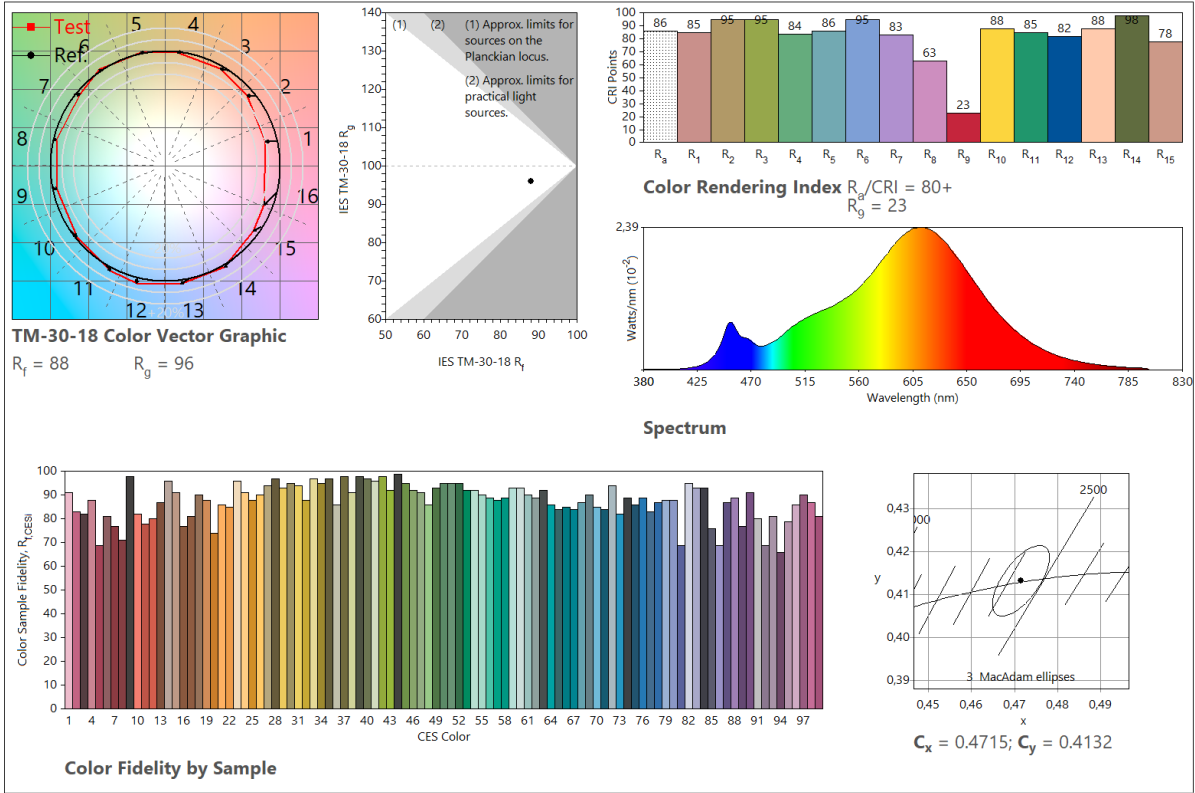
| CRI 90+ | Nominal CCT <small>See color output data</small> | Luminous Flux lm/ft. | Power W/ft. | Luminous Efficacy lm/W | Order Code | Length ft. |
|-----------------------|---|-------------------------|----------------|---------------------------|---------------|---------------|
| LFP800S-G5-927-10 L1 | 2700 K | 244 | 2,8 | 91 | 6937186129826 | 32.8 |
| LFP800S-G5-930-10 L1 | 3000 K | 244 | 2,4 | 105 | 6937186129864 | 32.8 |
| LFP800S-G5-940-10 L1 | 4000 K | 244 | 2,3 | 112 | 6937186129901 | 32.8 |
| LFP1200S-G5-927-10 L1 | 2700 K | 366 | 3,5 | 95 | 6937186130020 | 32.8 |
| LFP1200S-G5-930-10 L1 | 3000 K | 366 | 3,5 | 103 | 6937186130068 | 32.8 |
| LFP1200S-G5-940-10 L1 | 4000 K | 366 | 3,3 | 110 | 6937186130129 | 32.8 |
| LFP2000S-G5-927-05 L1 | 2700 K | 610 | 6,4 | 90 | 6937186130242 | 16.4 |
| LFP2000S-G5-930-05 L1 | 3000 K | 610 | 6,0 | 102 | 6937186130280 | 16.4 |
| LFP2000S-G5-940-05 L1 | 4000 K | 610 | 5,6 | 108 | 6937186130327 | 16.4 |

| CRI 95+ | Nominal CCT <small>See color output data</small> | Luminous Flux lm/ft. | Power W/ft. | Luminous Efficacy lm/W | Order Code | Length ft. |
|------------------------|---|-------------------------|----------------|---------------------------|---------------|---------------|
| LFP800S-G5-927R-10 L1 | 2700 K | 244 | 2,9 | 91 | 6937186129840 | 32.8 |
| LFP800S-G5-930R-10 L1 | 3000 K | 244 | 2,5 | 104 | 6937186129888 | 32.8 |
| LFP800S-G5-940R-10 L1 | 4000 K | 244 | 2,2 | 115 | 6937186129925 | 32.8 |
| LFP1200S-G5-927R-05 L1 | 2700 K | 366 | 4,3 | 89 | 6937186130044 | 16.4 |
| LFP1200S-G5-930R-05 L1 | 3000 K | 366 | 3,7 | 100 | 6937186130082 | 16.4 |
| LFP1200S-G5-940R-05 L1 | 4000 K | 366 | 3,2 | 113 | 6937186130143 | 16.4 |
| LFP2000S-G5-927R-05 L1 | 2700 K | 610 | 6,4 | 88 | 6937186130266 | 16.4 |
| LFP2000S-G5-930R-05 L1 | 3000 K | 610 | 5,9 | 103 | 6937186130303 | 16.4 |
| LFP2000S-G5-940R-05 L1 | 4000 K | 610 | 5,5 | 110 | 6937186130341 | 16.4 |

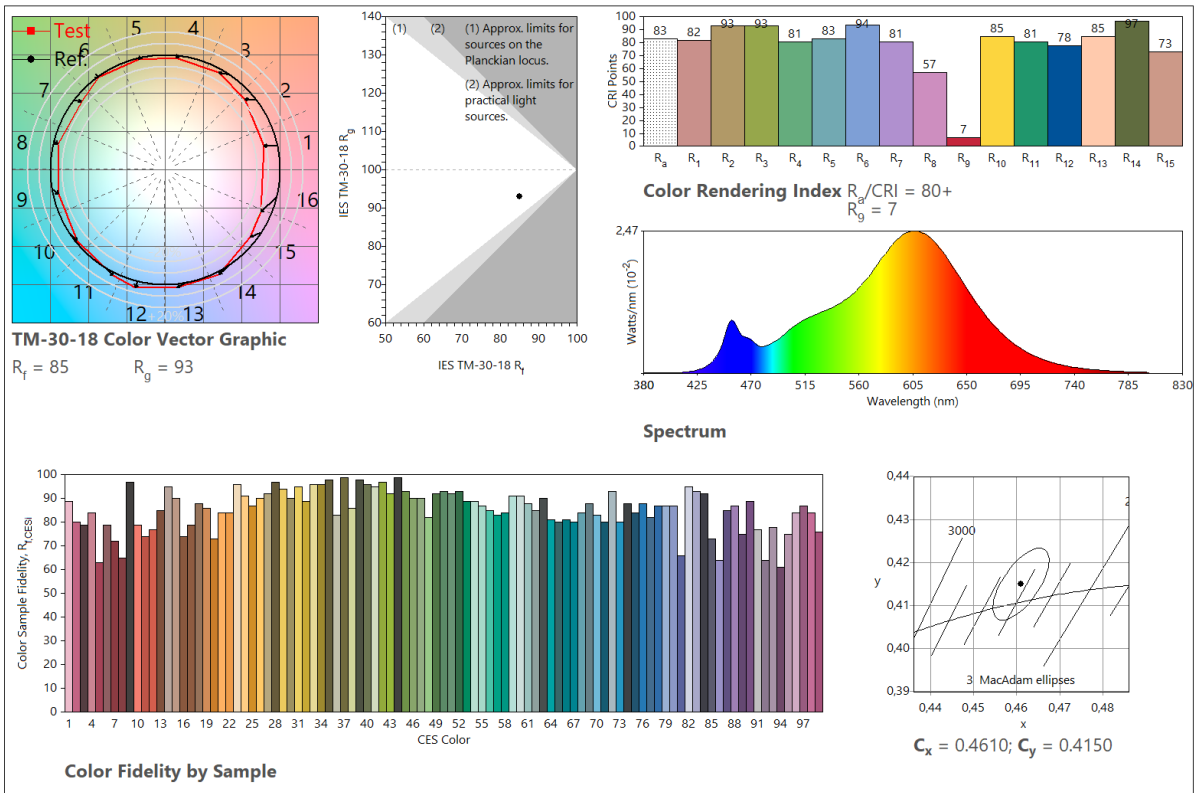
NOTE: all declared values are measured keeping the product Tc point at the Performance temperature Tp here below listed:
 LFP800S → Tp = 86°F / LFP1200S → Tp = 95°F / LFP2000S → Tp = 104°F

Color output data CRI 80+

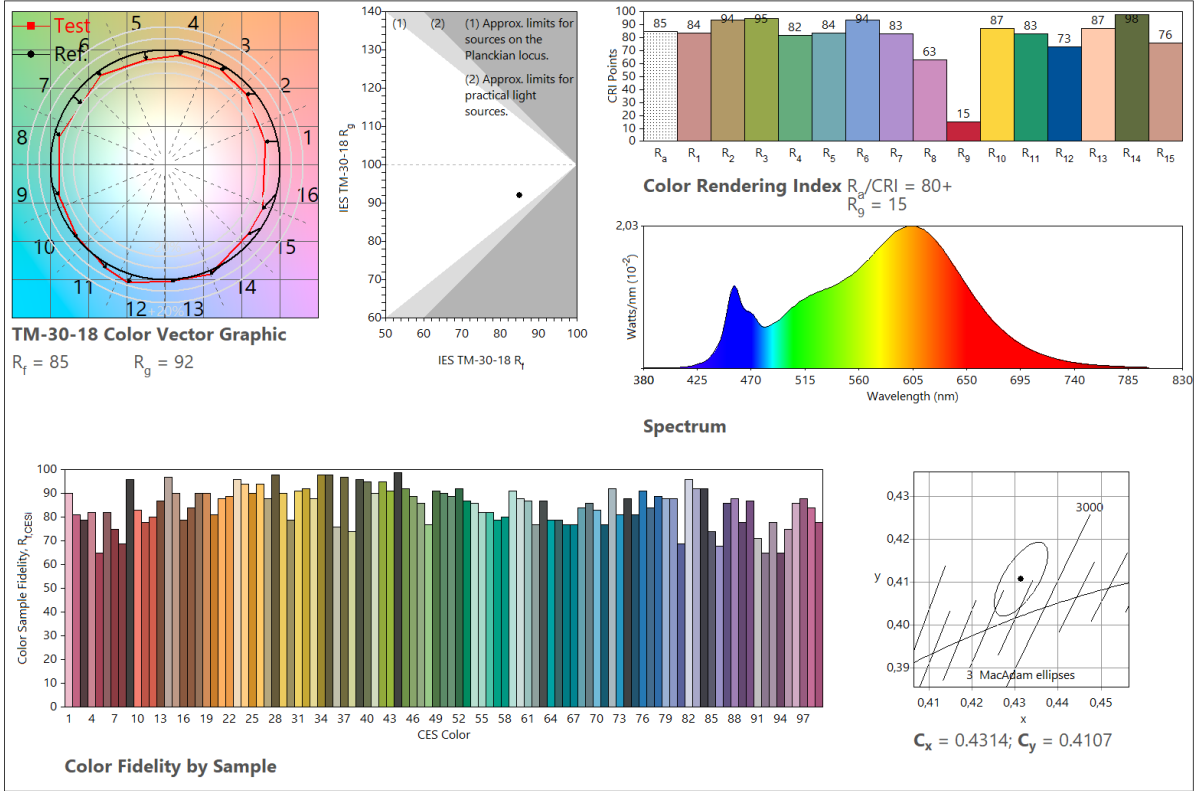
LFPxx00S-G5-825-yy C



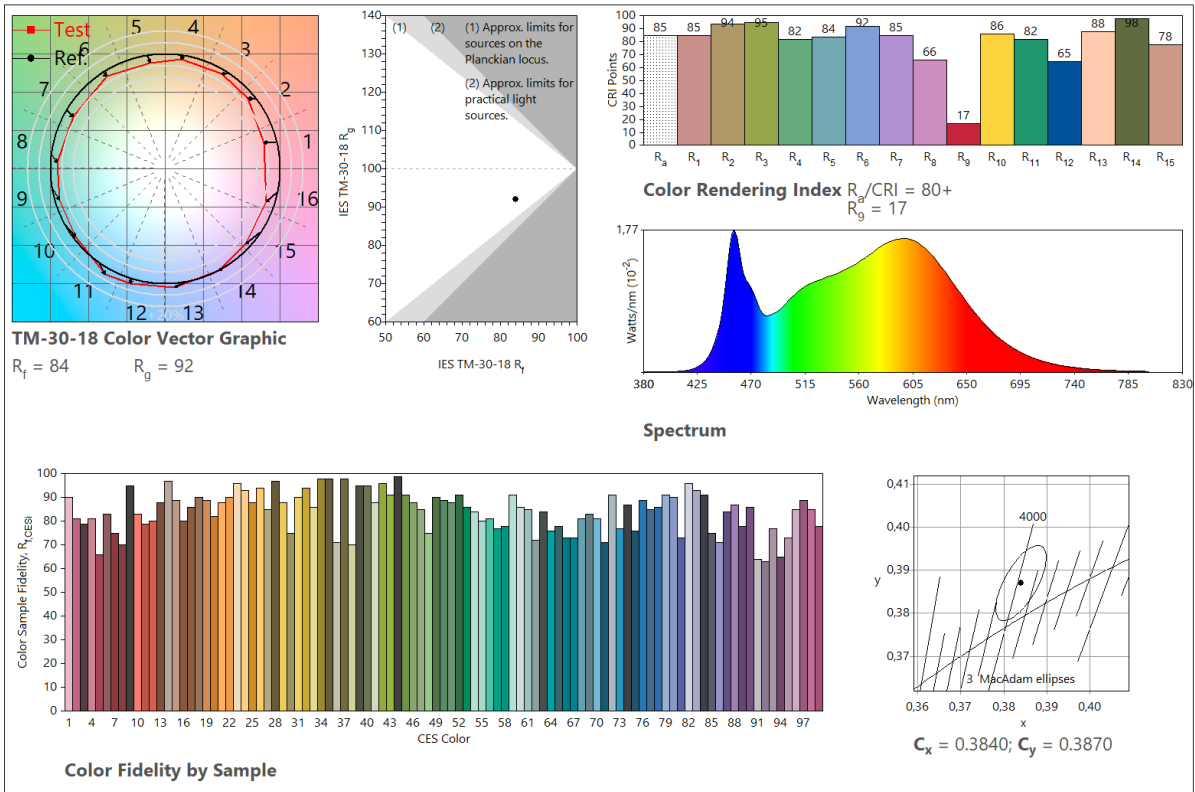
LFPxx00S-G5-827-yy C



LFPxx00S-G5-830-yy C

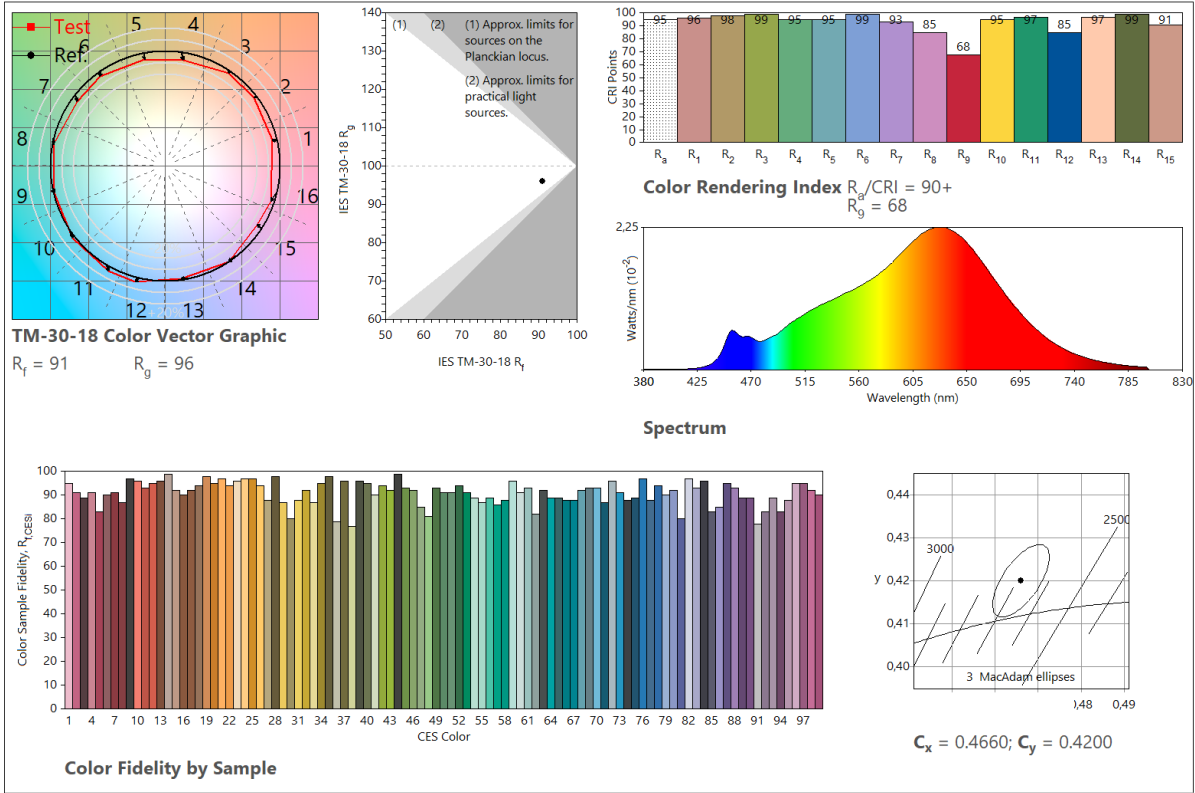


LFPxx00S-G5-840-yy C

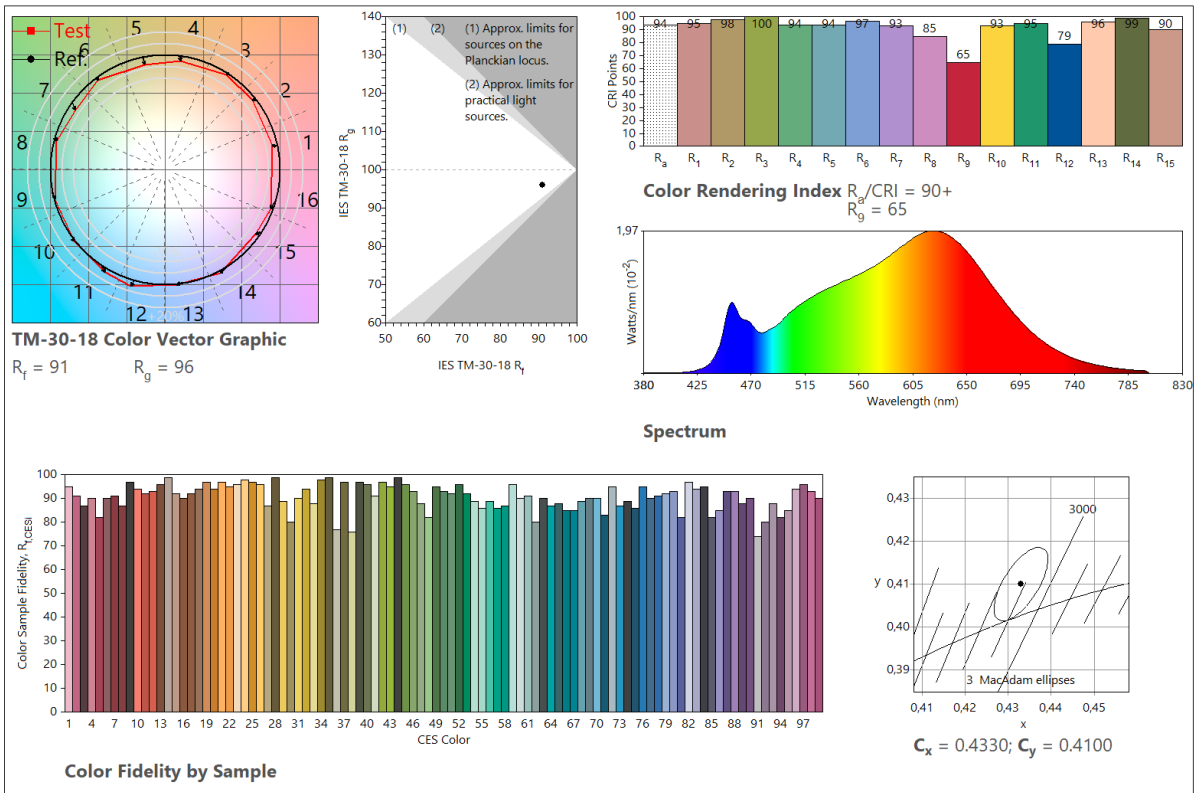


Color output data CRI 90+

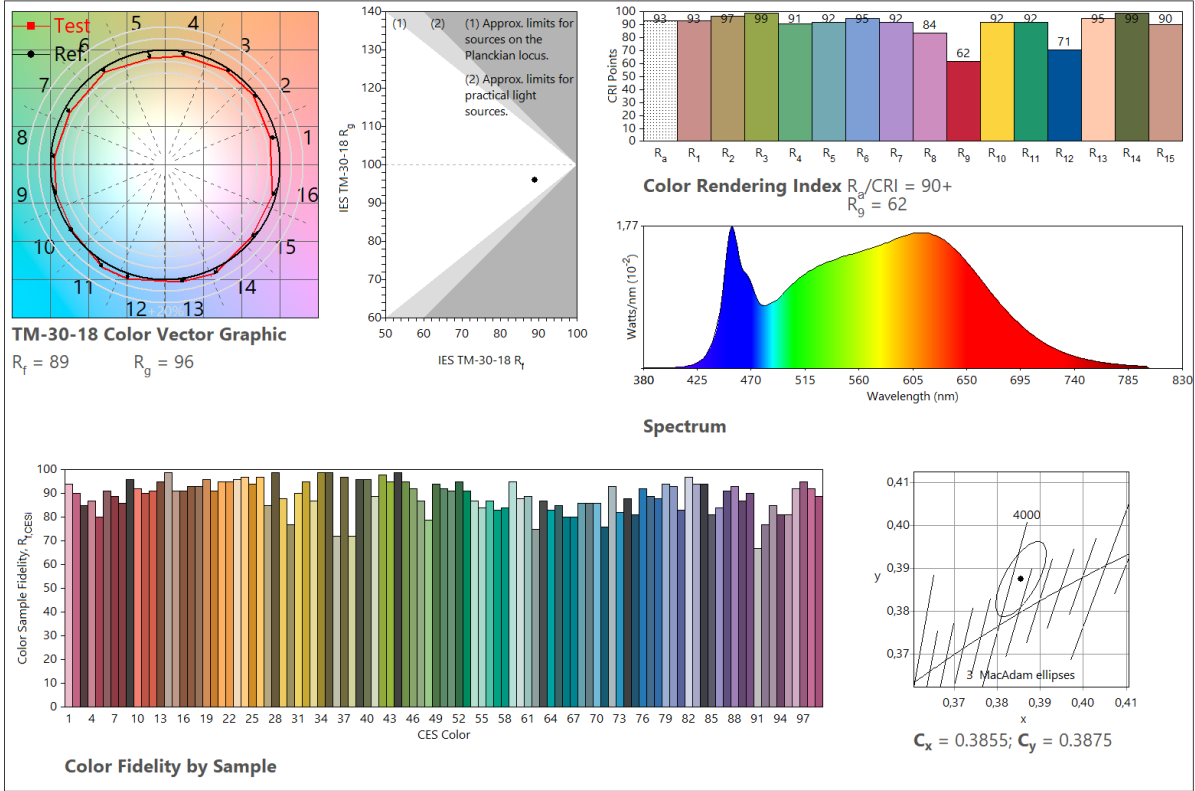
LFPxx00S-G5-927-yy C



LFPxx00S-G5-930-yy C

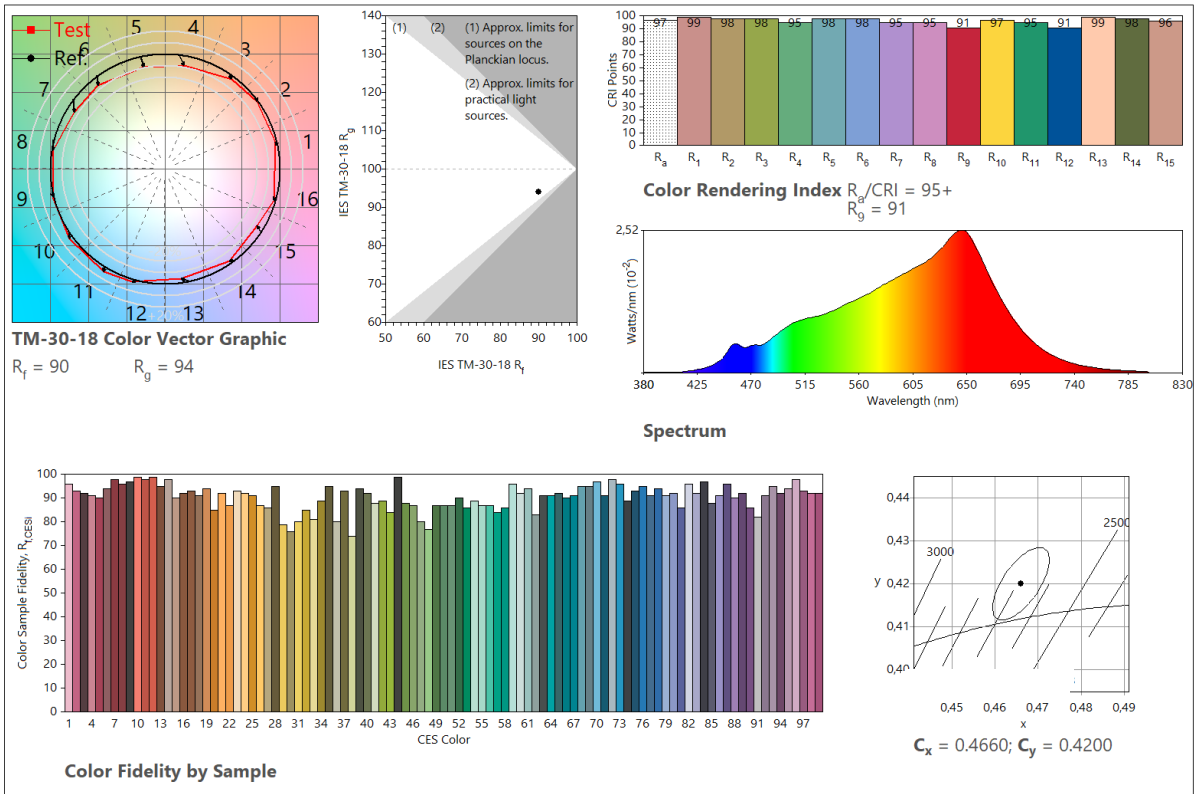


LFPxx00S-G5-940-yy C

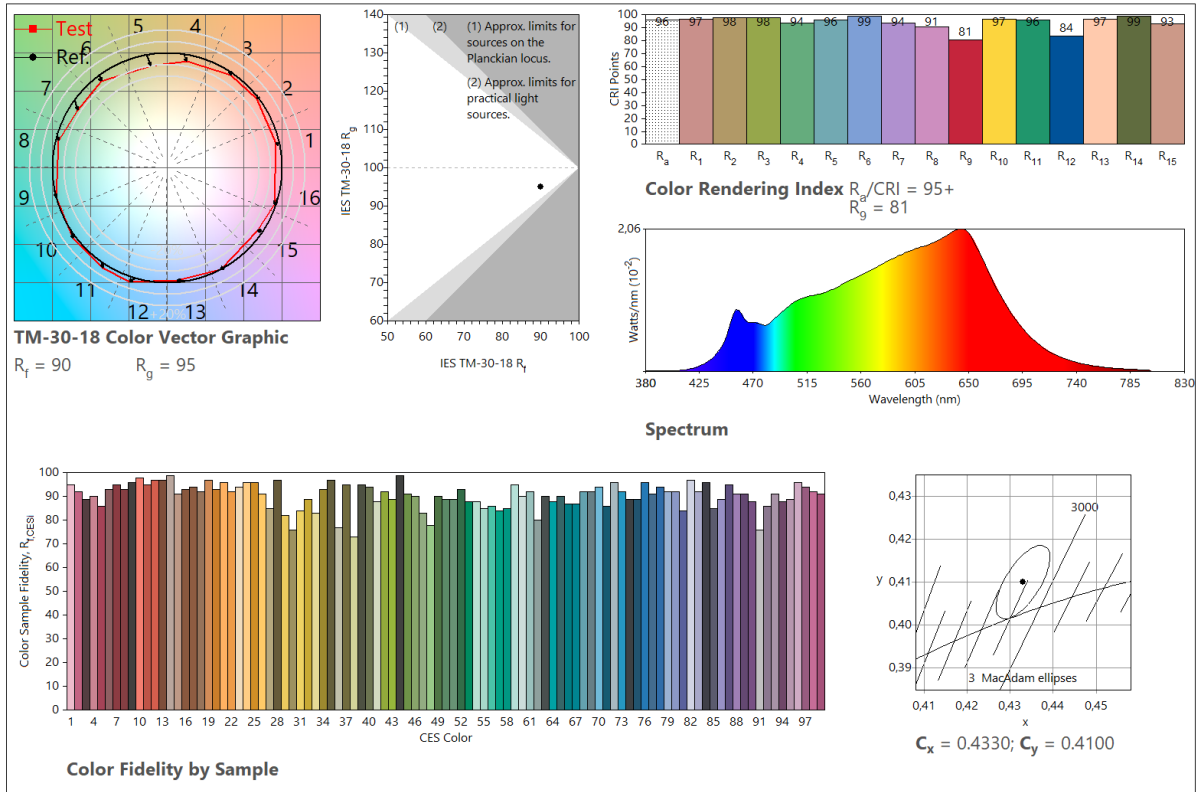


Color output data CRI 95+

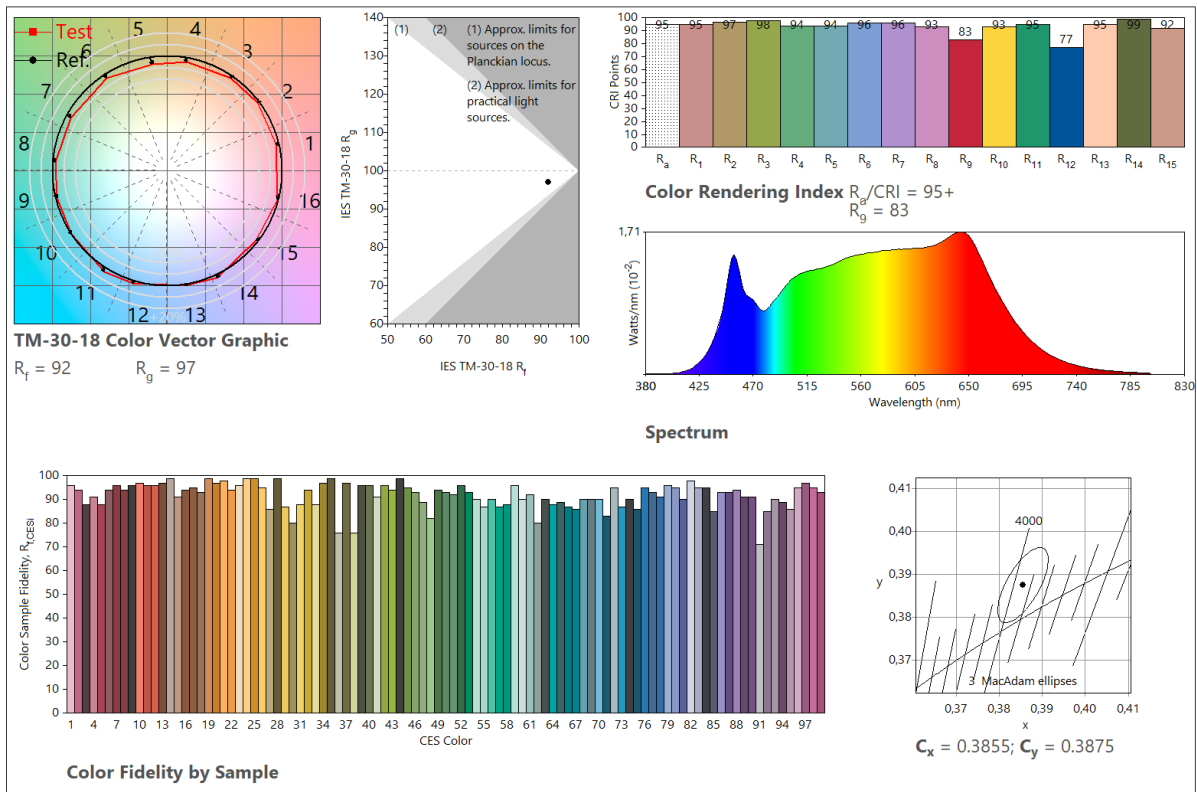
LFPxx00S-G5-927R-yy C



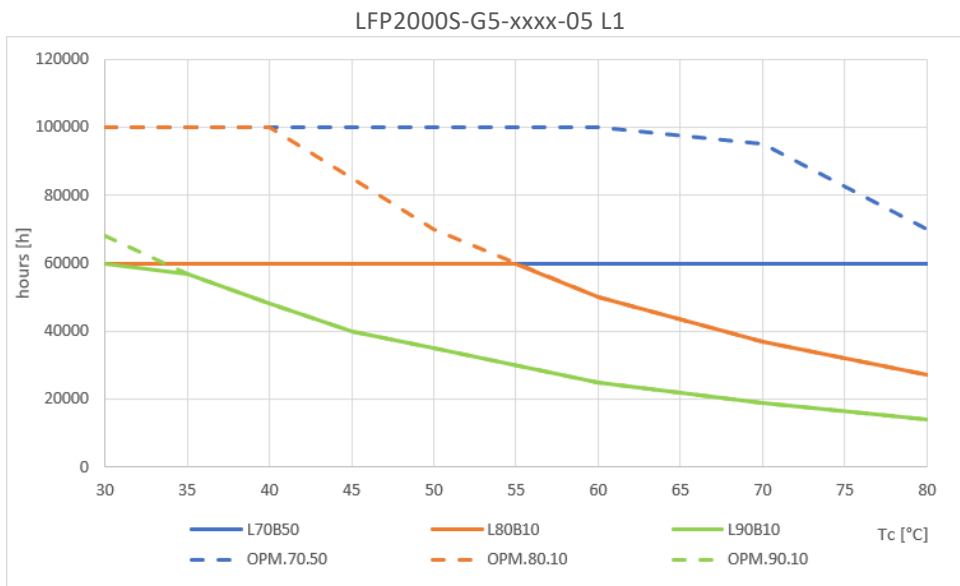
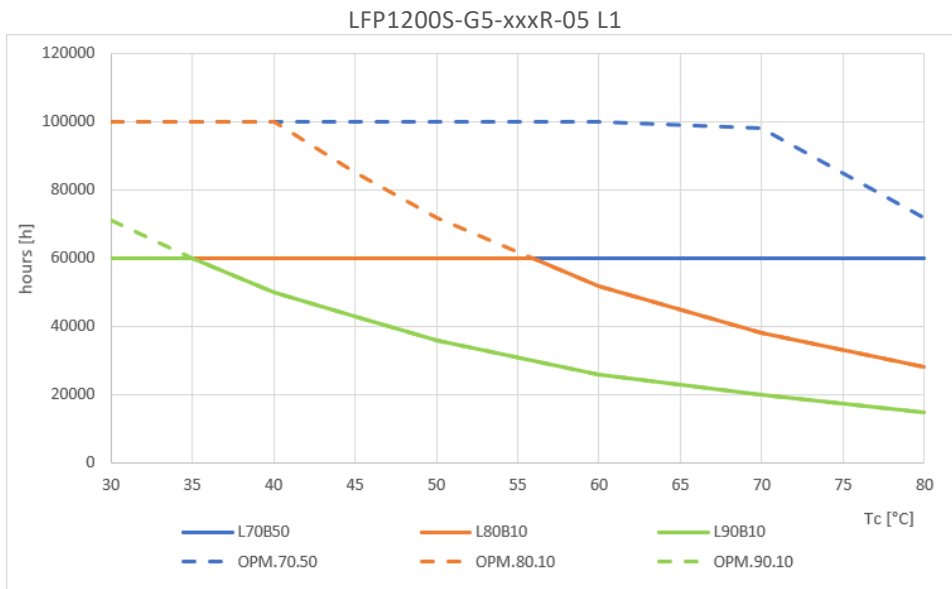
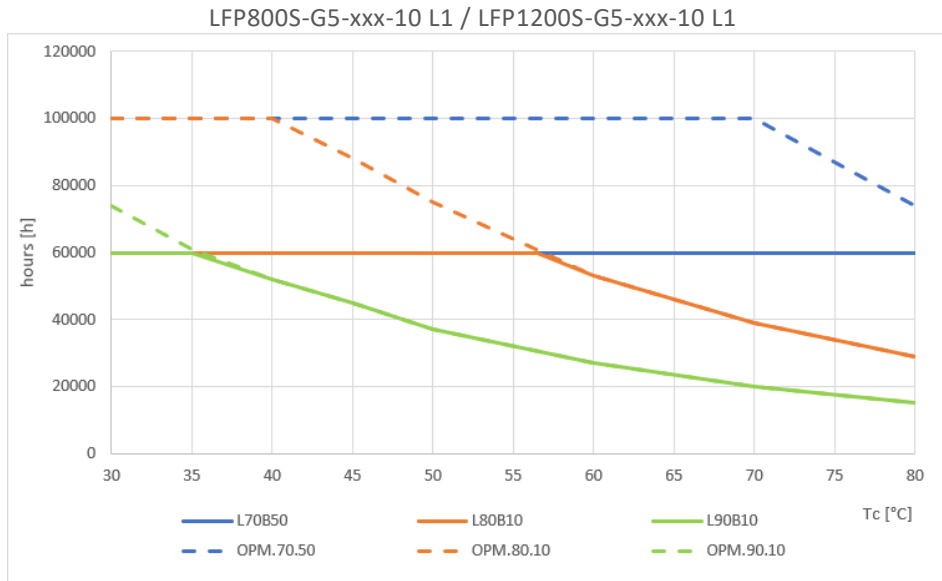
LFPxx00S-G5-930R-yy C



LFPxx00S-G5-940R-yy C



Lifetime chart








OPM70.50 / OPM80.10 / OPM90.10: Inventronics Predictive Models based on internal tests and know-how.

Packaging content

| Product type | EAN10 Package content |
|-----------------------|---|
| LFP800S-G5-xxx-yy L1 | 1 x Led strip 1x flying leads factory assembled |
| LFP1200S-G5-xxx-yy L1 | 1 x Led strip 1x flying leads factory assembled |
| LFP2000S-G5-xxx-yy L1 | 1 x Led strip 1x flying leads factory assembled |

Optional Accessories

| Product Type | Product description | Product code (EAN10) | EAN10 Package content |
|--|--------------------------------|----------------------|------------------------------|
|  End cap IP67 | ENDCAP-IP67 KIT 10PCS | 6937186131850 | 10x endcap, 1x glue |
|  Connector IP67 | CONN-FLEX-IP67-2P KIT 5PCS | 6937186141064 | 5x connectors with wire |
|  Connector IP67 | CONN-FLEX-IP67-2P-300 KIT 5PCS | 6937186141224 | 5x connectors with 9.8' wire |
|  Jumper IP67 | JUMPER-FLEX-IP67-2P KIT 5PCS | 6937186141040 | 5x jumpers |
|  Silicone CLIP | LF-CLIP-FIXTURE PROTECT | 6937186148360 | 50x clips |

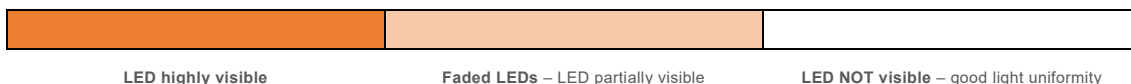
Note: When the LFPxxxxl led module is used in combination with CONN-FLEX-IP67-2P or with JUMPER-FLEX-IP67-2P, the IP protection reached is IP67 and no longer IP66/68.

Profile System

In the following tables are reported:

- **MAX TAMB:** max ambient temperature at which led module and the aluminum profile can be used without exceeding the T_{cmax};
- **OPTICAL PERFORMACES - VISIBILITY OF LED SPOT:** parameter that indicates, for each aluminum profile + cover, if the LED spots are visible or if the system can provide a uniform light homogeneity along the cover emitting surface;

Legend:

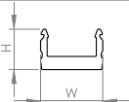
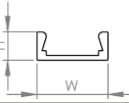
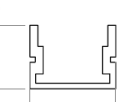


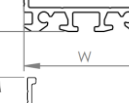


- **OPTICAL PERFORMACES - OPTICAL EFFICIENCY:** it represents, in percentage, the amount of light lost due to the system used. If the percentage is not available, it means that the cover does not exist or can not be used

Eg: LFP800S-G5-825-10 L2 + LTS-SLIMTRACK-2000 + cover transparent

800lm/m x (-20%) = 640lm/m
640lm/m is the lumen output outside the system

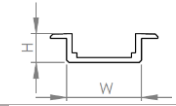
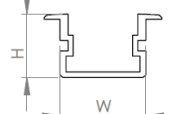
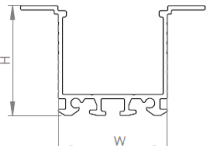
SURFACE INSTALLATION

| Track Type | Dimension WxH | Product description | Max Tamb [°F] | | | OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY) | | |
|---|---------------------|---|---------------------|--------------------|--------------------|---|-------------------------------|--------------------------------|
| | | | LFP800S LFP1200S | LF2P000S-G5-8xxx | LF2P000S-G5-9xxx | Flat Cover Transparent | Flat Cover Frosted or Opal | Round Cover Frosted or lens |
|  | 0,6x0,4 inches | LTS-SLIMTRACK-2000 EAN:6937186141200 | 122 °F | 113 °F | 107 °F | -20% | -35% | -40% |
|  | 0,6x0,23 inches | FX-QMS-G2-TU15H6-300 EAN:6937186130860 | 122 °F (NB1) | 116 °F (NB1) | 113 °F (NB1) | -- | -- | -- |
|  | 0,63x0,47 inches | FX-QMS-G1-TU16H12-300 EAN:6937186126740 | 122 °F | 122 °F | 107 °F | -24% | -45% | -- |
|  | 0,63x0,47 inches | FX-QMS-G1-TU16H12LS-300 EAN:6937186148421 | 122 °F (NB2) | 122 °F (NB2) | 107 °F (NB2) | -- | -- | -30% |
|  | 1x0,4 inches | FX-QMW-G2-TU26H10-200 EAN: 6937186126849 | 122 °F | 122 °F | 113 °F | -- | -- | -30% |
|  | 1x0,9 inches | FX-QMW-G2-TU26H25-200 EAN: 6937186126825 | 122 °F | 122 °F | 113 °F | -- | -55% | -50% |

NB1: LFPxxxxS-G5 can be installed in FX-QMS-G2-TU15H6-300 but without any cover.

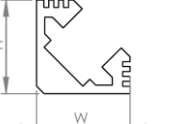
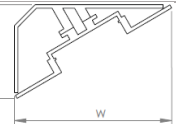
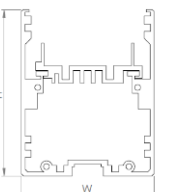
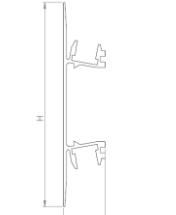
NB2: LFPxxxxS-G5 can be installed in FX-QMS-G1-TU16H12LS-300 but only without the internal aluminum bar otherwise it is not possible the lens installation.

RECESSED INSTALLATION

| Track Type | Dimension WxH | Product description | Max Tamb [°F] | | | OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY) | | | | |
|---|------------------|---|---------------------|------------------|------------------|--|-------------|------------|-----------------|-------------|
| | | | LFP800S LFP1200S | LF2P000S-G5-8xxx | LF2P000S-G5-9xxx | Flat Cover | Transparent | Flat Cover | Frosted or Opal | Round Cover |
|  | 0,6x0,23 inches | FX-QMS-G2-TU15H6W3-300 EAN:6937186126702 | 122 °F (NB1) | 117 °F (NB1) | 107 °F (NB1) | -- | -- | -- | -- | -- |
|  | 0,63x0,47 inches | FX-QMS-G1-TU16H12W3-300 EAN:6937186146229 | 122 °F | 122 °F | 107 °F | -24% | -- | -45% | -- | -- |
|  | 1x0,9 inches | FX-QMW-G2-TU26H25W10-200 EAN: 6937186126801 | 122 °F | 122 °F | 113 °F | -- | -- | -55% | -- | -50% |

NB1: LFPxxxS-G5 can be installed in FX-QMS-G2-TU15H6W3-300 but without any cover

SPECIAL INSTALLATION

| Track Type | Dimension WxH | Product description | Max Tamb [°F] | | | OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY) | | | | |
|---|------------------|---|---------------------|------------------|------------------|--|-------------|------------|-----------------|-------------|
| | | | LFP800S LFP1200S | LF2P000S-G5-8xxx | LF2P000S-G5-9xxx | Flat Cover | Transparent | Flat Cover | Frosted or Opal | Round Cover |
|  | 0,75x0,75 inches | FX-QMS-G2-T45D19H19-300 EAN:6937186131706 | 122 °F | 117 °F | 122 °F | -38% | -- | -57% | -- | -- |
|  | 1,8 x 1,1 inches | FX-QMW-G1-TK30D46H27-300 EAN:6937186148407 | 122 °F | 122 °F | 122 °F | -- | -- | -39% | -- | -43% |
|  | 2,2x2,8 inches | FX-QMP-G1-TU56H70-xx-0yy EAN: 6977078997805 6977078997836 6977078997867 6977078997898 6977078997928 6977078997959 | 122 °F | 122 °F | 122 °F | -- | -- | -32% | -- | -26% |
|  | 4,3x0,87 inches | FX-QMR-G1-TT25H110-xx-0yy EAN: 6977078998017 6977078998048 6977078998079 6977078998109 6977078998130 6977078998161 | 122 °F | 122 °F | 122 °F | -- | -- | -70% | -- | -- |

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:
<https://www.inventronics-light.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 INVENTRONICS 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.