



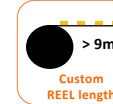
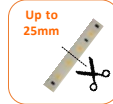
# LINEARlight FLEX INFINITE 24V – IP66/68

High efficiency flexible LED strip  
LFP500I / 1500I / 3000I / 4000I-G1-xxx-24 L1

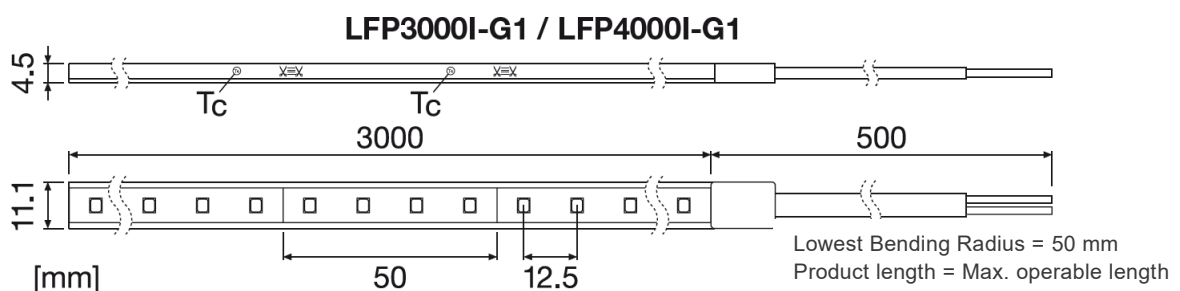
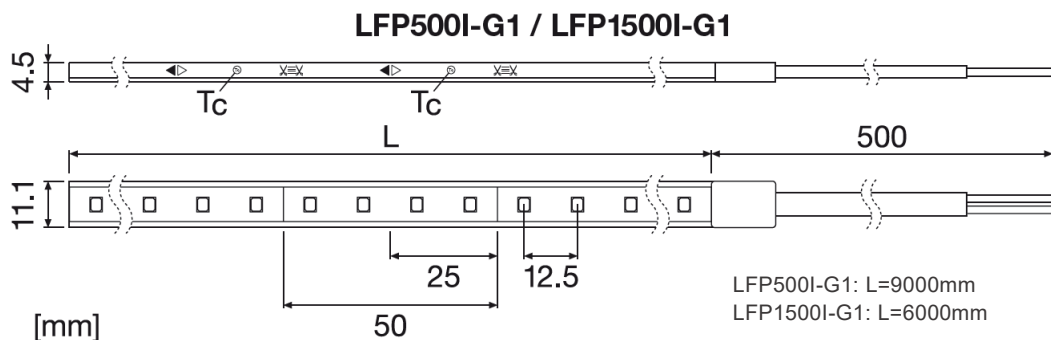


### Features & Benefits

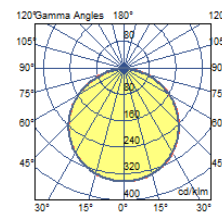
- Flexible and cuttable LED strip up to 25mm
- Luminous flux: up to 4,000 lm/m
- 80 led/m
- Dimmable with PWM technology
- Color uniformity better than 2 SDCM\* on the entire LED strip and between strips\*
- High color fidelity to beautify every design
- High luminous flux
- Large selection of light colors
- Great design freedom thanks to flexibility and cuttability of module
- High-performance silicone for extremely long life and flexibility
- Extraordinary design and high quality materials
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back
- Pre-wired LED strip, simple and quick plug-and-play installation
- Outdoor use possible: UV and salt mist resistant (UV acc. to ISO 4892-2 - Method A, salt mist acc. to IEC 60068-2-52 severity)
- Simplified connection with optional matching CONNECTsystem
- Quick installation with optional SLIM TRACK System
- Made in Italy



### Technical drawings



<b>Nominal Voltage</b>	24.0 V - (23 V...25 V)
<b>Reverse voltage protection up to</b>	25.0 V
<b>Temperature range in operation @ Tc point</b>	-30 °C...+80 °C**
<b>Storage Temperature</b>	-40 °C...+85 °C
<b>Ambient Temperature with profile **</b>	-30 °C...+55 °C



\*\* The maximum ambient temperature strongly depends on the type of profile used. For this reason, we always recommend preparing an installation mock-up and measuring the Tc.

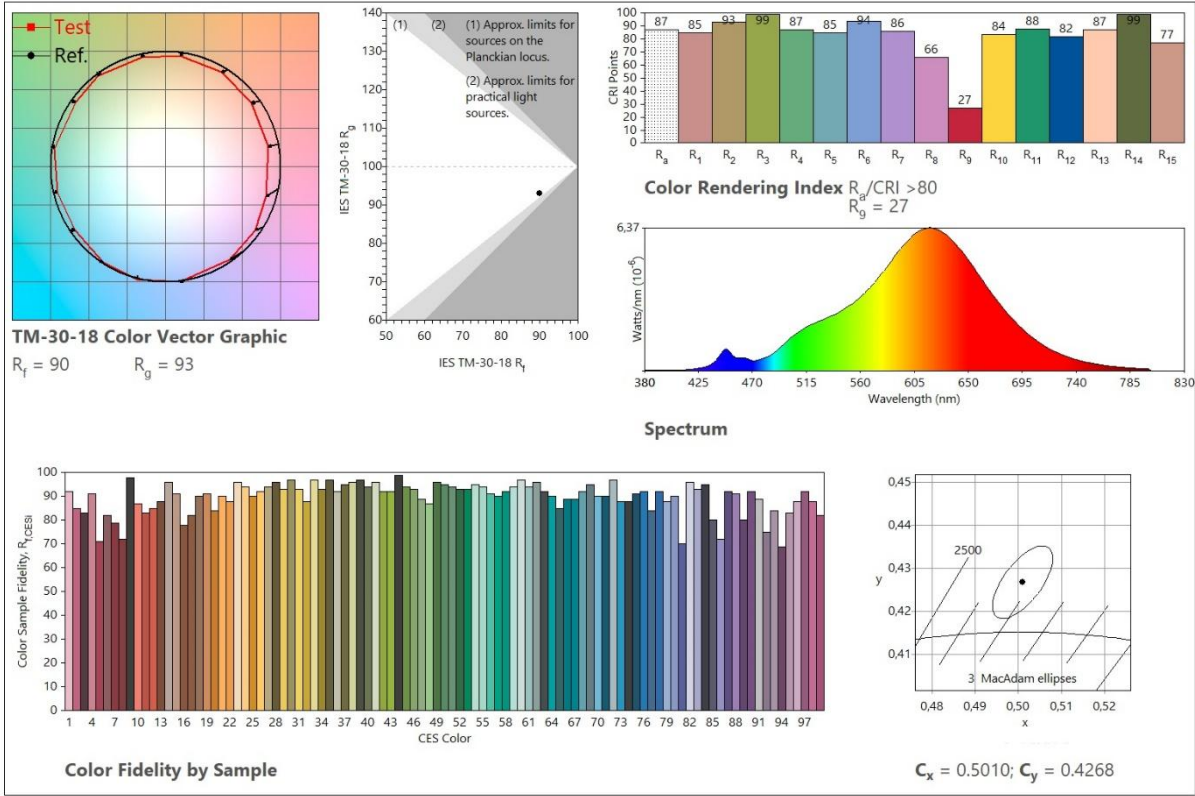
### Technical data

	<b>CRI 80+</b>	<b>Nominal CCT</b> <small>See color output data</small>	<b>Luminous Flux</b> lm/m	<b>Power</b> W/m	<b>Luminous Efficacy</b> lm/W	<b>Performance Temperature</b> °C	<b>Length</b> m
500lm/m	LFP500I-G1-824-24-09 L1	2400 K	510	4	128	29	9
	LFP500I-G1-827-24-09 L1	2700 K	560	4	140	29	9
	LFP500I-G1-830-24-09 L1	3000 K	600	4	150	29	9
	LFP500I-G1-840-24-09 L1	4000 K	625	4	156	29	9
1500lm/m	LFP1500I-G1-824-24-06 L1	2400 K	1250	9,8	128	34	6
	LFP1500I-G1-827-24-06 L1	2700 K	1370	9,8	140	34	6
	LFP1500I-G1-830-24-06 L1	3000 K	1470	9,8	150	34	6
	LFP1500I-G1-840-24-06 L1	4000 K	1570	9,8	160	34	6
3000lm/m	LFP3000I-G1-824-24-03 L1	2400 K	2460	19,6	126	45	3
	LFP3000I-G1-827-24-03 L1	2700 K	2720	19,6	139	45	3
	LFP3000I-G1-830-24-03 L1	3000 K	2920	19,6	149	45	3
	LFP3000I-G1-840-24-03 L1	4000 K	3080	19,6	157	45	3
4000lm/m	LFP4000I-G1-824-24-03 L1	2400 K	3210	26,2	123	50	3
	LFP4000I-G1-827-24-03 L1	2700 K	3560	26,2	136	50	3
	LFP4000I-G1-830-24-03 L1	3000 K	3800	26,2	145	50	3
	LFP4000I-G1-840-24-03 L1	4000 K	4000	26,2	153	50	3

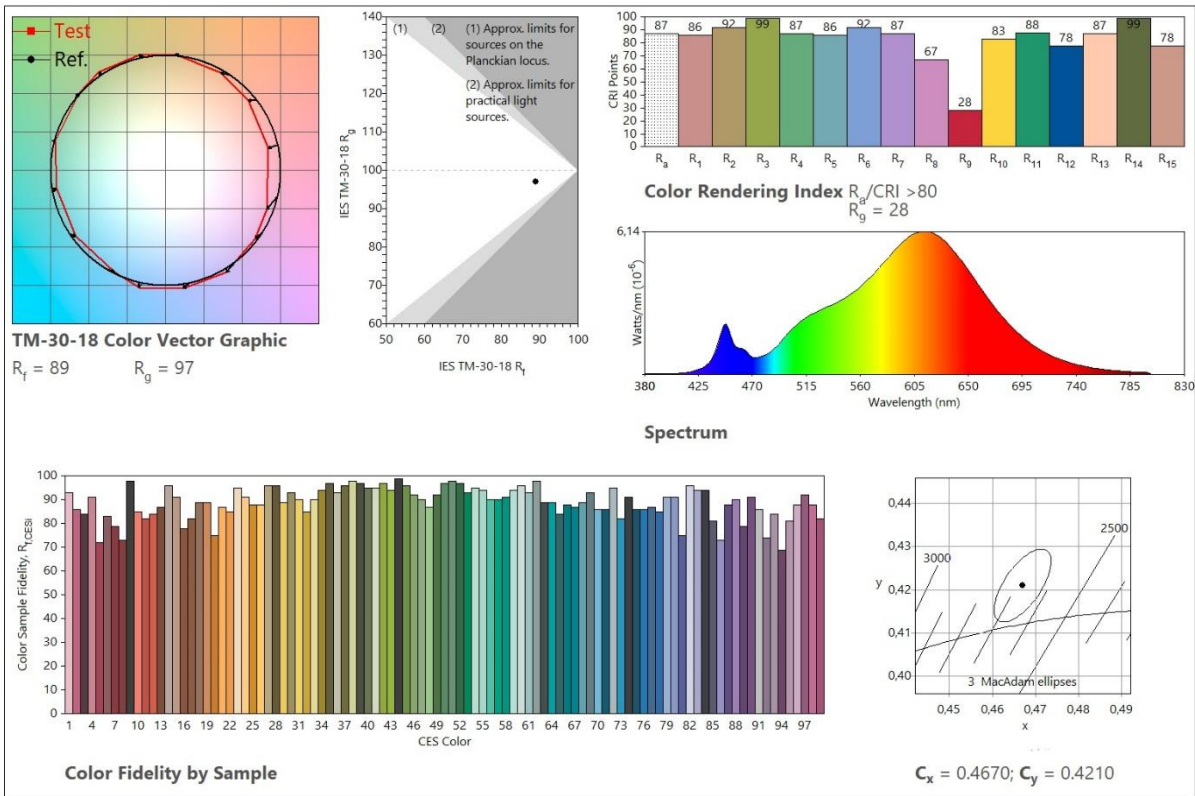
	<b>CRI 90+</b>	<b>Nominal CCT</b> <small>See color output data</small>	<b>Luminous Flux</b> lm/m	<b>Power</b> W/m	<b>Luminous Efficacy</b> lm/W	<b>Performance Temperature</b> °C	<b>Length</b> m
500lm/m	LFP500I-G1-924-24-09 L1	2400 K	430	4	108	29	9
	LFP500I-G1-927-24-09 L1	2700 K	480	4	120	29	9
	LFP500I-G1-930-24-09 L1	3000 K	515	4	129	29	9
	LFP500I-G1-940-24-09 L1	4000 K	550	4	138	29	9
1500lm/m	LFP1500I-G1-924-24-06 L1	2400 K	1060	9,8	108	34	6
	LFP1500I-G1-927-24-06 L1	2700 K	1160	9,8	118	34	6
	LFP1500I-G1-930-24-06 L1	3000 K	1270	9,8	130	34	6
	LFP1500I-G1-940-24-06 L1	4000 K	1370	9,8	140	34	6
3000lm/m	LFP3000I-G1-924-24-03 L1	2400 K	2100	19,6	107	45	3
	LFP3000I-G1-927-24-03 L1	2700 K	2300	19,6	117	45	3
	LFP3000I-G1-930-24-03 L1	3000 K	2490	19,6	127	45	3
	LFP3000I-G1-940-24-03 L1	4000 K	2700	19,6	138	45	3
4000lm/m	LFP4000I-G1-924-24-03 L1	2400 K	2750	26,2	105	50	3
	LFP4000I-G1-927-24-03 L1	2700 K	3000	26,2	115	50	3
	LFP4000I-G1-930-24-03 L1	3000 K	3220	26,2	123	50	3
	LFP4000I-G1-940-24-03 L1	4000 K	3480	26,2	133	50	3

Color output data CRI 80+

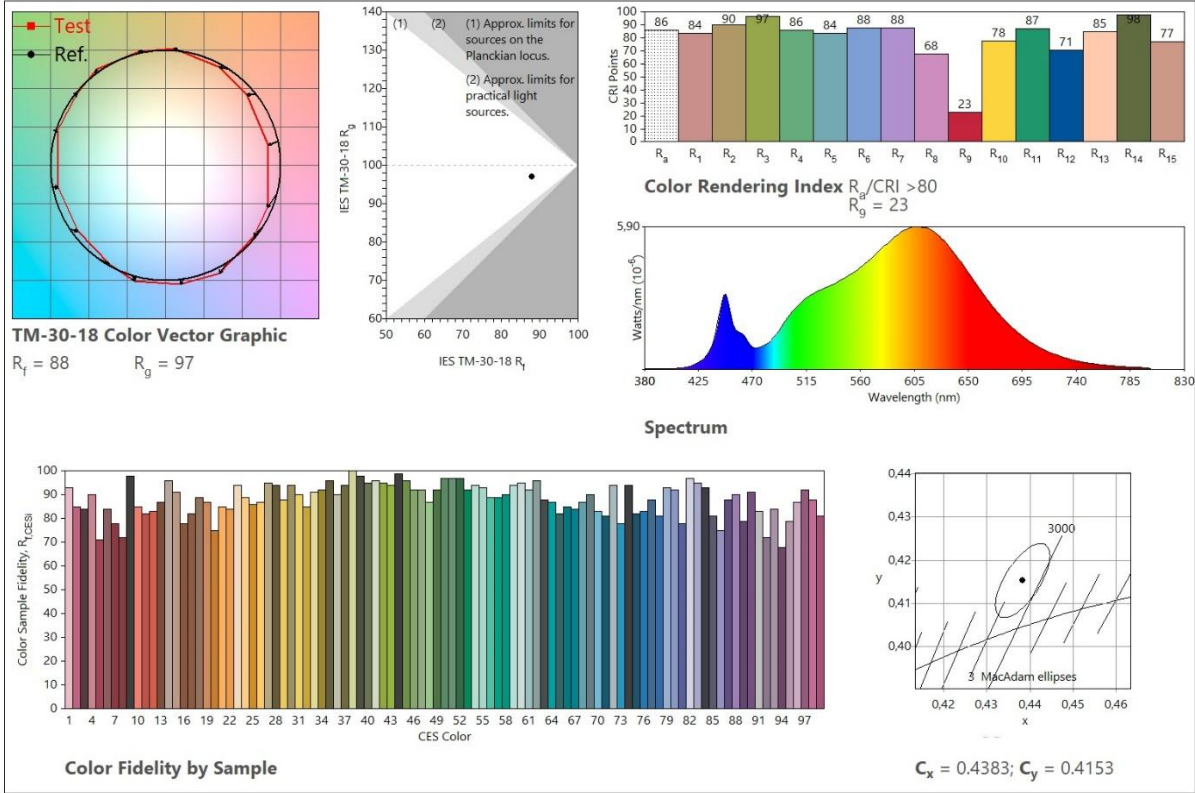
LFPxx00I-G1-824-24-yy L1



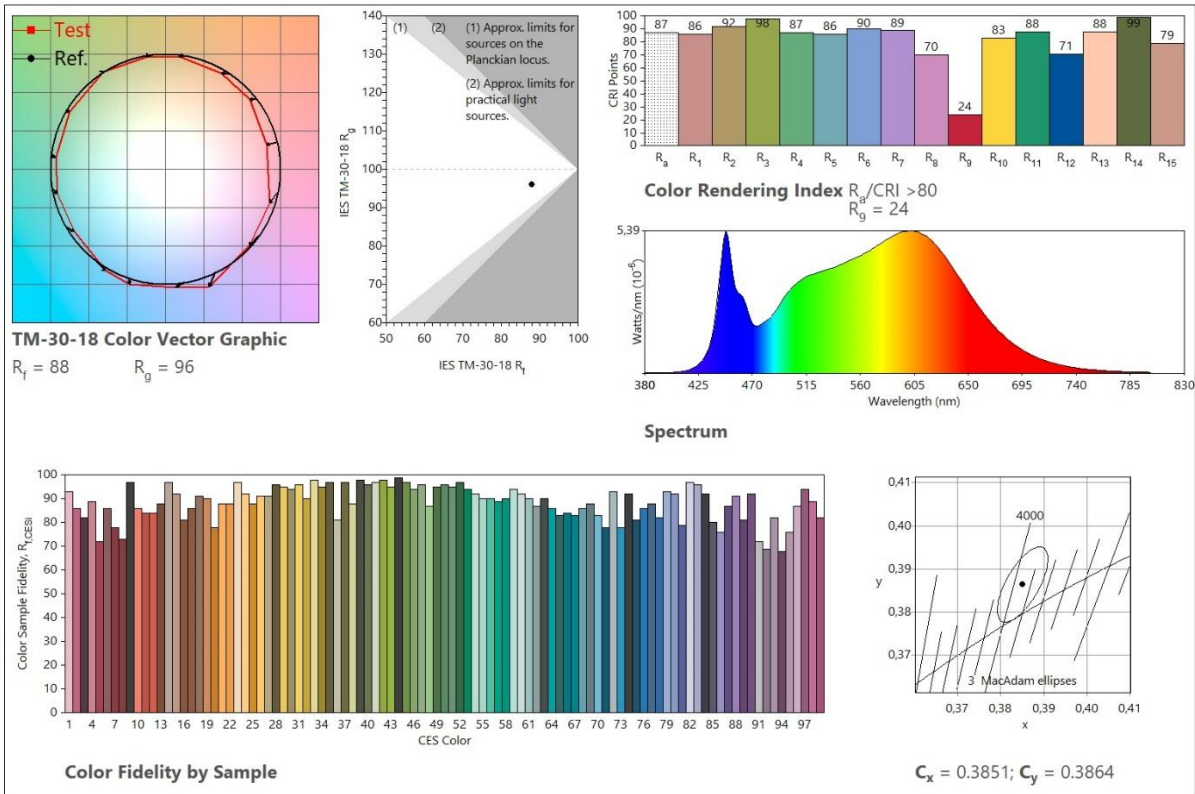
LFPxx00I-G1-827-24-yy L1



**LFPxx00I-G1-830-24-yy L1**

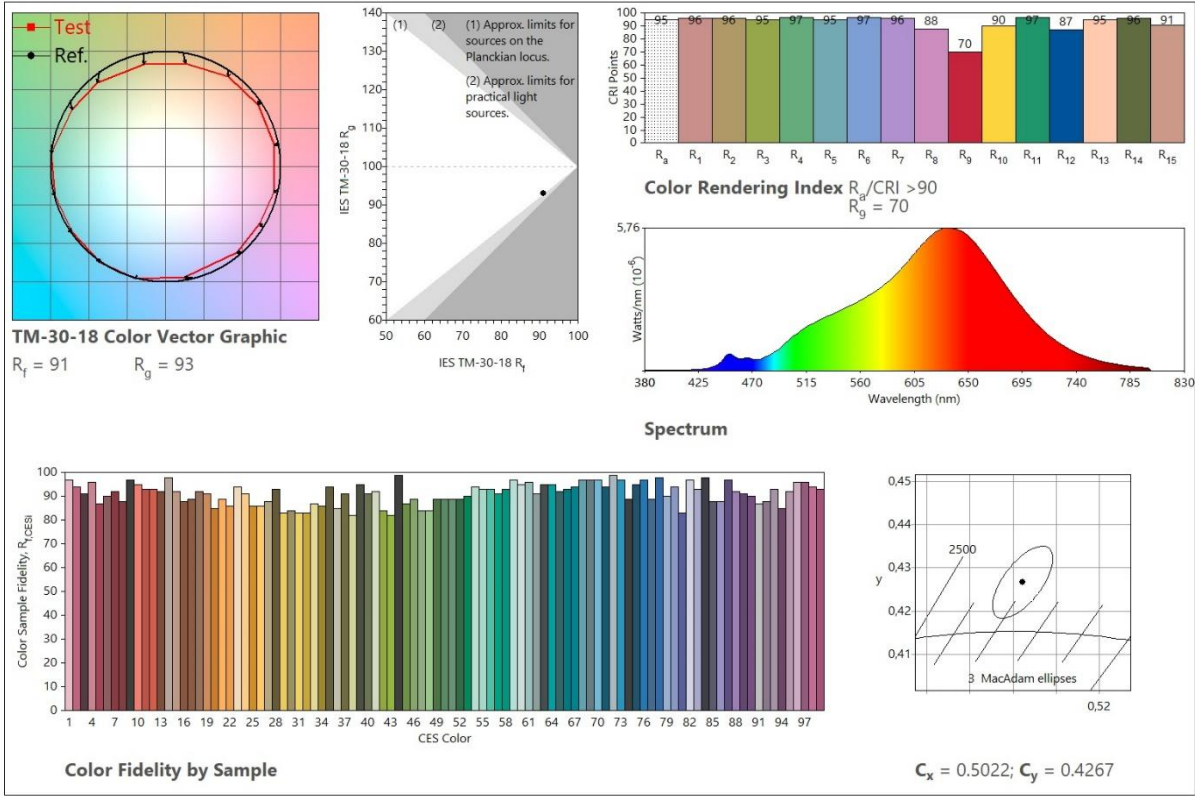


**LFPxx00I-G1-840-24-yy L1**

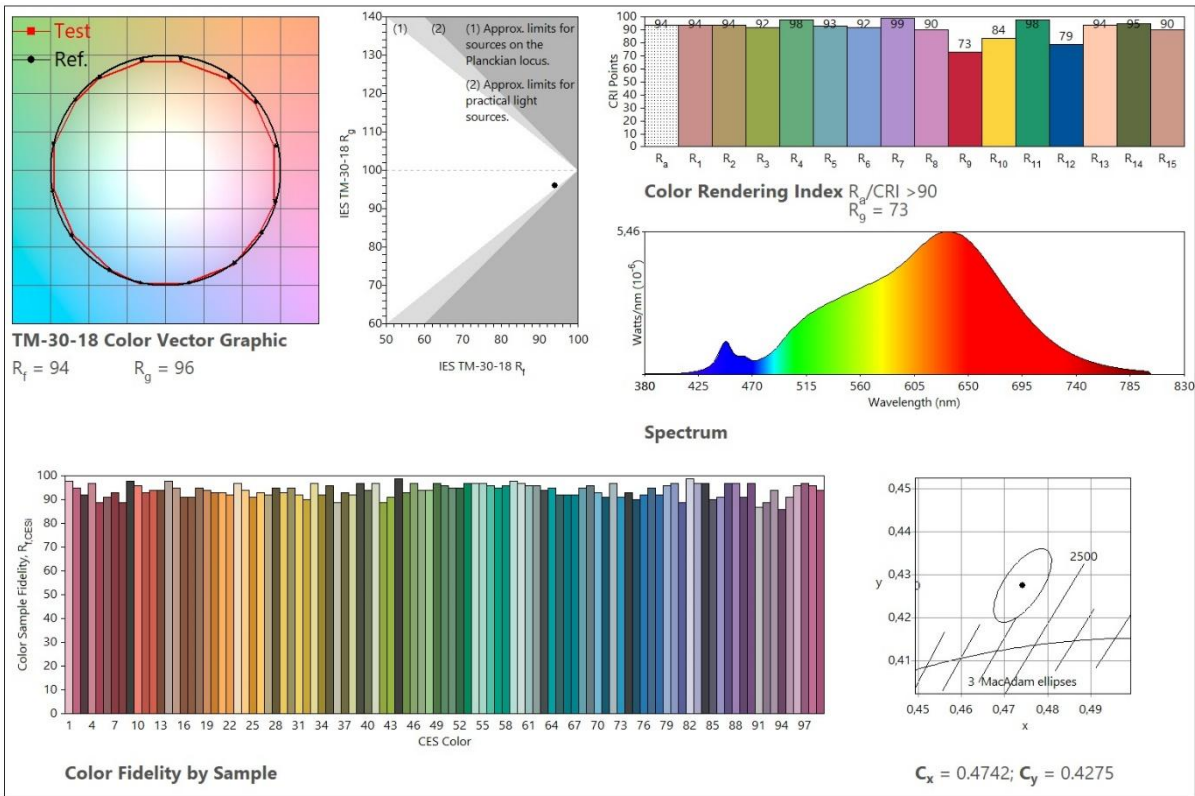


Color output data CRI 90+

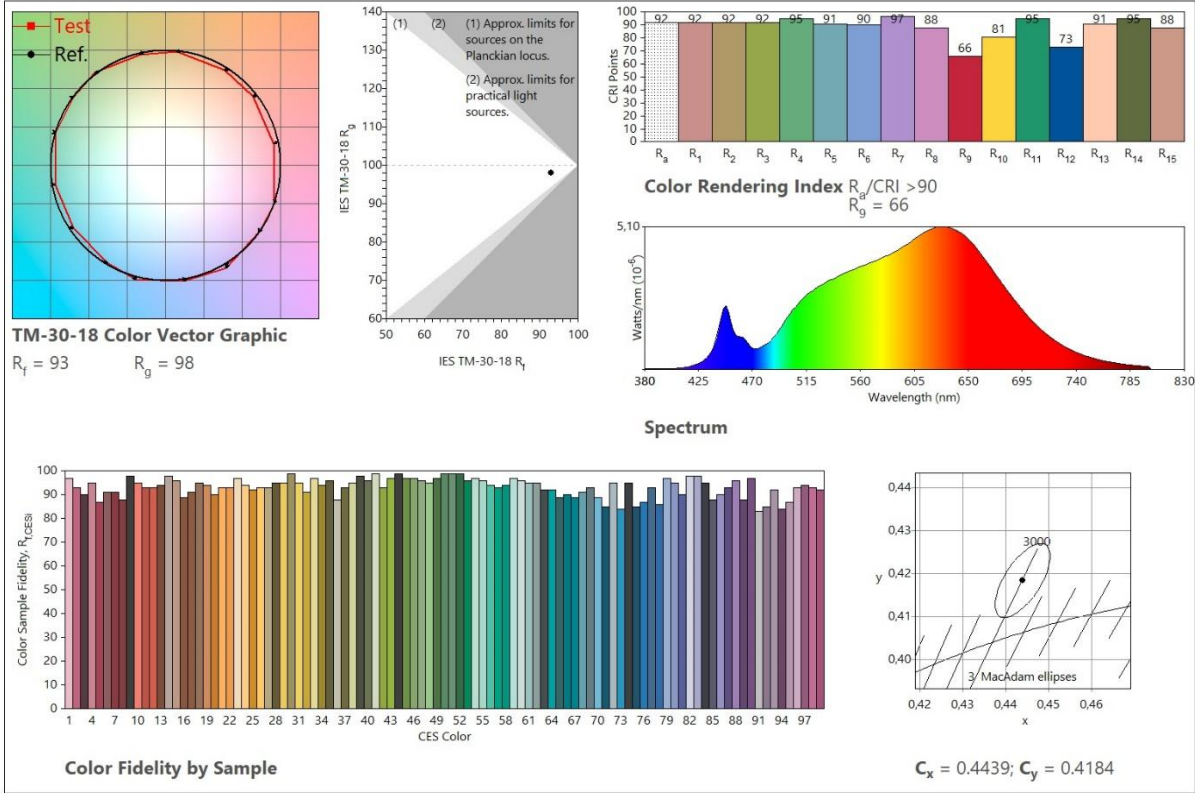
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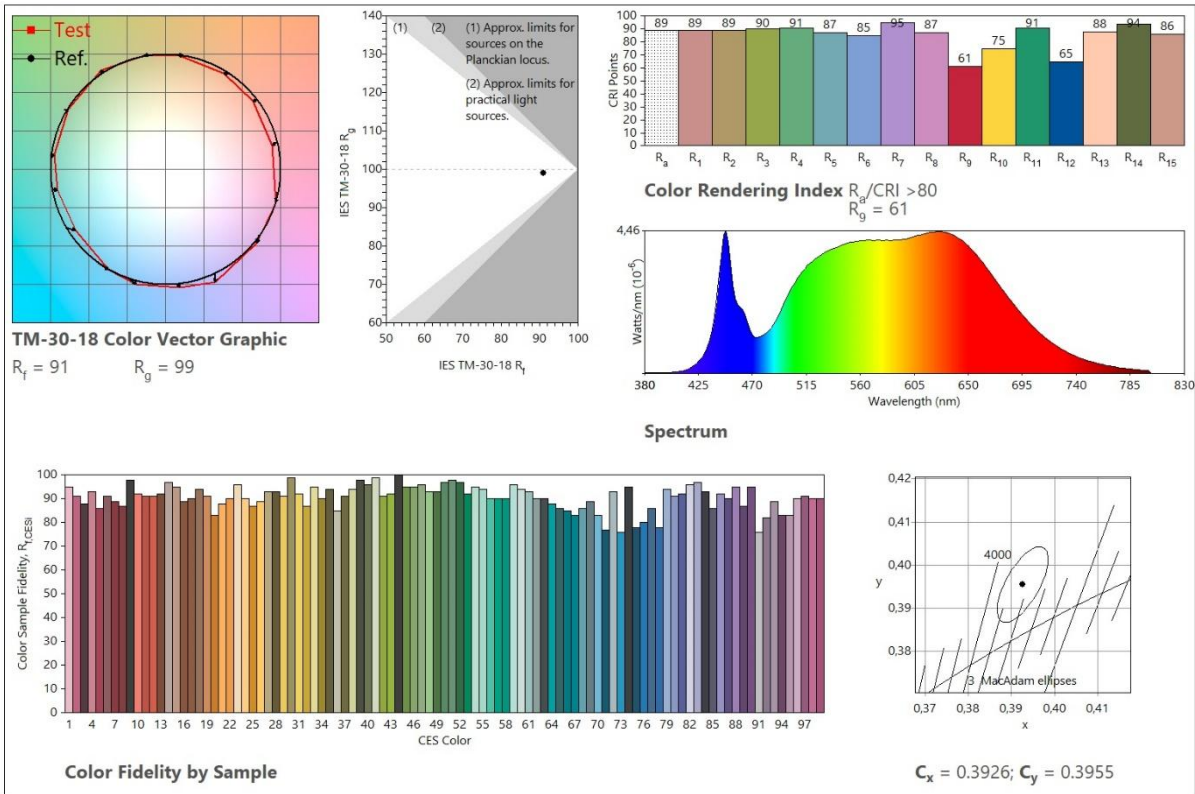
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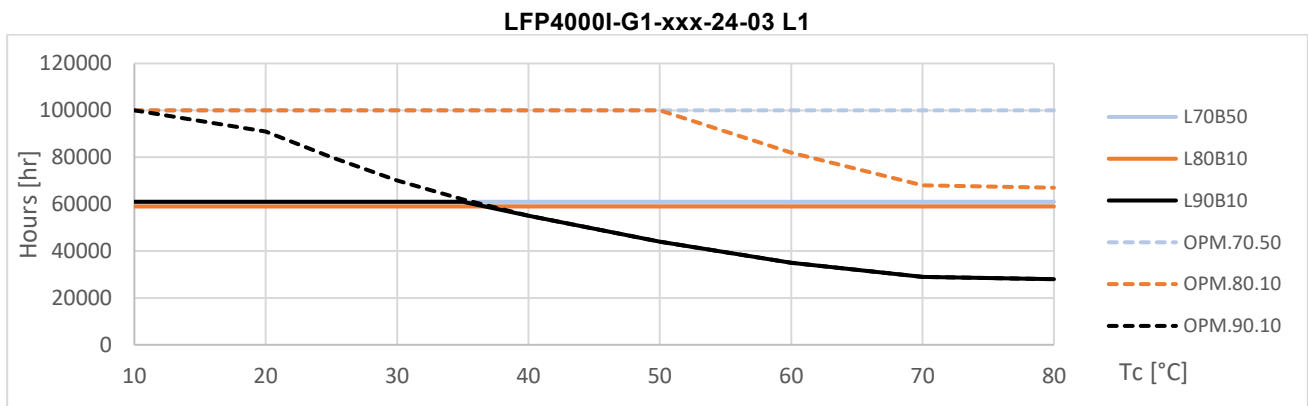
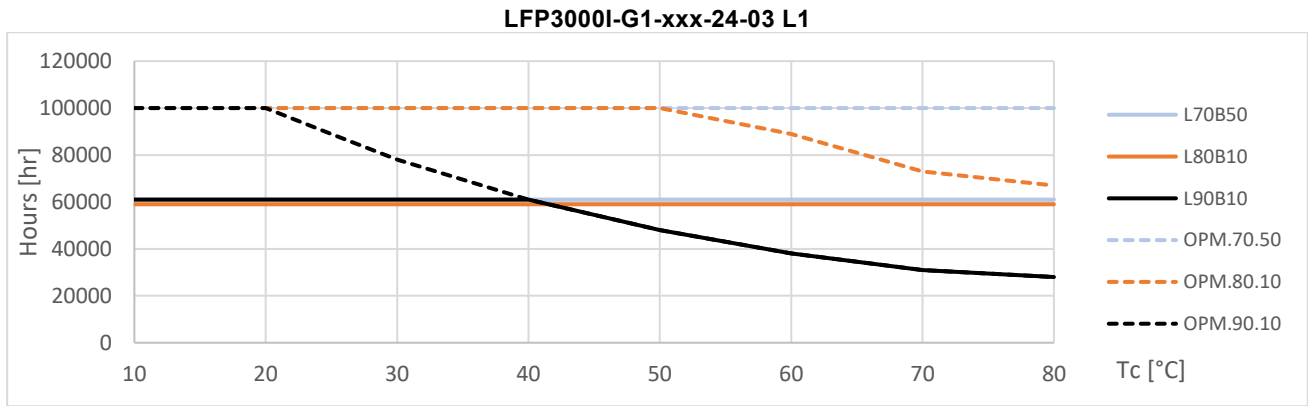
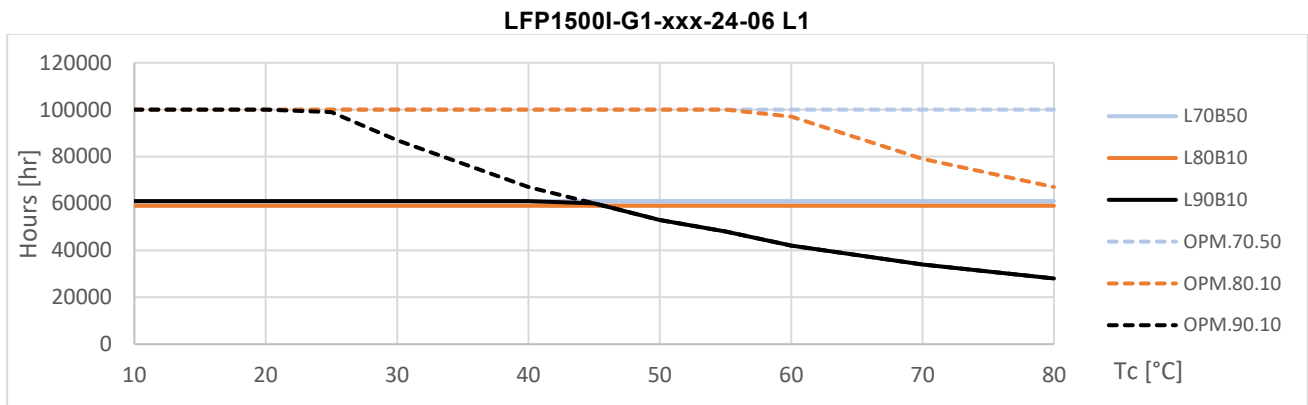
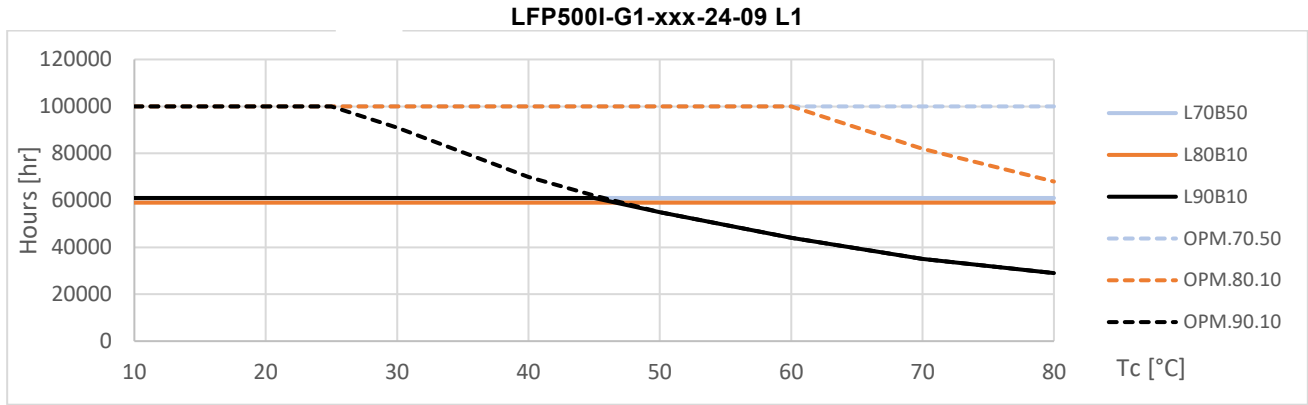
**LFPxx00I-G1-930-24-yy L1**



**LFPxx00I-G1-940-24-yy L1**



**Lifetime chart**








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

## Packaging content

Product type	Product code	EAN10 Package content
LFP500I-G1-824-24-09 L1	6937186117175	1x Led strip <b>with single</b> pre-soldered wire
LFP500I-G1-827-24-09 L1	6937186117199	1x Led strip <b>with single</b> pre-soldered wire
LFP500I-G1-830-24-09 L1	6937186117212	1x Led strip <b>with single</b> pre-soldered wire
LFP500I-G1-840-24-09 L1	6937186117236	1x Led strip <b>with single</b> pre-soldered wire
LFP1500I-G1-824-24-06 L1	6937186117335	1x Led strip <b>with single</b> pre-soldered wire
LFP1500I-G1-827-24-06 L1	6937186117359	1x Led strip <b>with single</b> pre-soldered wire
LFP1500I-G1-830-24-06 L1	6937186117373	1x Led strip <b>with single</b> pre-soldered wire
LFP1500I-G1-840-24-06 L1	6937186117397	1x Led strip <b>with single</b> pre-soldered wire
LFP3000I-G1-824-24-03 L1	6937186117496	1x Led strip <b>with single</b> pre-soldered wire
LFP3000I-G1-827-24-03 L1	6937186117519	1x Led strip <b>with single</b> pre-soldered wire
LFP3000I-G1-830-24-03 L1	6937186117533	1x Led strip <b>with single</b> pre-soldered wire
LFP3000I-G1-840-24-03 L1	6937186117557	1x Led strip <b>with single</b> pre-soldered wire
LFP4000I-G1-824-24-03 L1	6937186117656	1x Led strip <b>with single</b> pre-soldered wire
LFP4000I-G1-827-24-03 L1	6937186117670	1x Led strip <b>with single</b> pre-soldered wire
LFP4000I-G1-830-24-03 L1	6937186117793	1x Led strip <b>with single</b> pre-soldered wire
LFP4000I-G1-840-24-03 L1	6937186117694	1x Led strip <b>with single</b> pre-soldered wire
LFP500I-G1-924-24-09 L1	6937186117250	1x Led strip <b>with single</b> pre-soldered wire
LFP500I-G1-927-24-09 L1	6937186117274	1x Led strip <b>with single</b> pre-soldered wire
LFP500I-G1-930-24-09 L1	6937186117298	1x Led strip <b>with single</b> pre-soldered wire
LFP500I-G1-940-24-09 L1	6937186117311	1x Led strip <b>with single</b> pre-soldered wire
LFP1500I-G1-924-24-06 L1	6937186117410	1x Led strip <b>with single</b> pre-soldered wire
LFP1500I-G1-927-24-06 L1	6937186117434	1x Led strip <b>with single</b> pre-soldered wire
LFP1500I-G1-930-24-06 L1	6937186117458	1x Led strip <b>with single</b> pre-soldered wire
LFP1500I-G1-940-24-06 L1	6937186117472	1x Led strip <b>with single</b> pre-soldered wire
LFP3000I-G1-924-24-03 L1	6937186117571	1x Led strip <b>with single</b> pre-soldered wire
LFP3000I-G1-927-24-03 L1	6937186117595	1x Led strip <b>with single</b> pre-soldered wire
LFP3000I-G1-930-24-03 L1	6937186117618	1x Led strip <b>with single</b> pre-soldered wire
LFP3000I-G1-940-24-03 L1	6937186117632	1x Led strip <b>with single</b> pre-soldered wire
LFP4000I-G1-924-24-03 L1	6937186117717	1x Led strip <b>with single</b> pre-soldered wire
LFP4000I-G1-927-24-03 L1	6937186117731	1x Led strip <b>with single</b> pre-soldered wire
LFP4000I-G1-930-24-03 L1	6937186117755	1x Led strip <b>with single</b> pre-soldered wire
LFP4000I-G1-940-24-03 L1	6937186117779	1x Led strip <b>with single</b> pre-soldered wire

## 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 3 m wire
 Jumper IP67	JUMPER-FLEX-IP67-2P KIT 5PCS	6937186141040	5x jumpers
 Silicone CLIP	LF-CLIP-FIXTURE PROTECT	6937186148360	50x clips

**Note 1:** 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.

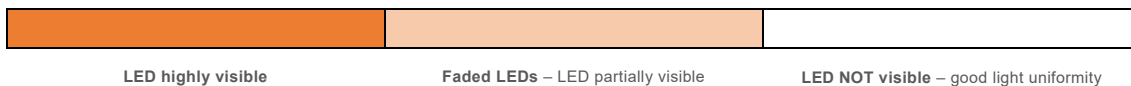
**Note 2:** All LINEARlight Flex LED strips are fully compatible with INVENTRONICS LED drivers and dimmers.

## 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<sub>cmax</sub>;
- **OPTICAL PERFORMANCES - 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:

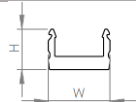
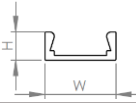
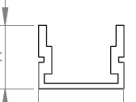
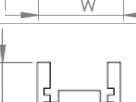
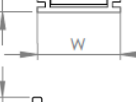



- **OPTICAL PERFORMANCES - OPTICAL EFFICIENCY:** it represents, in percentage, the amount of light lost due to the system used. If the percentage is not available, it means that the cover does not exist or cannot be used.

Eg: LFP1500I-G1-827-24-06 L1 + LTS-SLIMTRACK-2000 + cover transparent

1370lm/m x (-20%) = 1096lm/m  
 1096lm/m is the lumen output outside the system

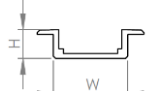
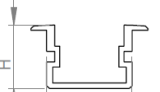
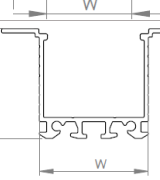
**SURFACE INSTALLATION**

Track Type	Dimension WxH	Product description	Max Tamb [°C]			OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)		
			LFP500I LFP1500I	LFP3000I	LFP4000I	Flat Cover Transparent	Flat Cover Frosted or Opal	Round Cover Frosted or lens
	15x10 mm	<b>LTS-SLIMTRACK-2000</b> EAN:6937186141200	55°C	50°C	40°C	-20%	-35%	-40%
	15x6 mm	<b>FX-QMS-G2-TU15H6-300</b> EAN:6937186130860	55°C (NB1)	50°C (NB1)	40°C (NB1)	--	--	--
	16x12 mm	<b>FX-QMS-G1-TU16H12-300</b> EAN:6937186126740	55°C	45°C	40°C	-24%	-45%	--
	16x12 mm	<b>FX-QMS-G1-TU16H12LS-300</b> EAN:6937186148421	55°C (NB2)	45°C (NB2)	40°C (NB2)	--	--	-30%
	26x10 mm	<b>FX-QMW-G2-TU26H10-200</b> EAN: 6937186126849	55°C	50°C	40°C	--	--	-30%
	26x25 mm	<b>FX-QMW-G2-TU26H25-200</b> EAN: 6937186126825	50°C	50°C	40°C	--	-55%	-50%

**NB1:** LFPxxxxI-G1 can be installed in FX-QMS-G2-TU15H6-300 but without any cover.

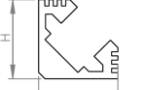
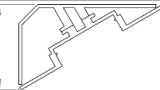
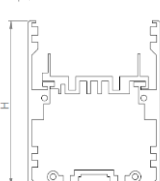
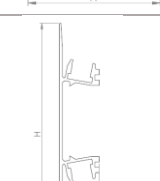
**NB2:** LFPxxxxI-G1 can be installed in FX-QMS-G1-TU16H12LS-300 but only without the internal aluminum bar otherwise it is not possible the lens installation.

**RECESSED INSTALLATION**

Track Type	Dimension WxH	Product description	Max Tamb [°C]			OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)		
			LFP500I LFP1500I	LFP3000I	LFP4000I	Flat Cover Transparent	Flat Cover Frosted or Opal	Round Cover Frosted or lens
	15x6 mm	<b>FX-QMS-G2-TU15H6W3-300</b> EAN:6937186126702	55°C (NB1)	45°C (NB1)	35°C (NB1)	--	--	--
	16x12 mm	<b>FX-QMS-G1-TU16H12W3-300</b> EAN:6937186146229	50°C	50°C	42°C	-24%	-45%	--
	26x25 mm	<b>FX-QMW-G2-TU26H25W10-200</b> EAN: 6937186126801	50°C	50°C	45°C	--	-55%	-50%

**NB1:** LFPxxxxI-G1 can be installed in FX-QMS-G2-TU15H6W3-300 but without any cover

**SPECIAL INSTALLATION**

Track Type	Dimension WxH	Product description	Max Tamb [°C]			OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)		
			LFP500I LFP1500I	LFP3000I	LFP4000I	Flat Cover Transparent	Flat Cover Frosted or Opal	Round Cover Frosted or lens
	19x19 mm	<b>FX-QMS-G2-T45D19H19-300</b> EAN:6937186131706	55°C	45°C	40°C	-38%	-57%	--
	46 x 27 mm	<b>FX-QMW-G1-TK30D46H27-300</b> EAN:6937186148407	55°C	55°C	45°C	--	-39%	-43%
	56x70 mm	<b>FX-QMP-G1-TU56H70-xx-0yy</b> EAN: 6977078997805 6977078997836 6977078997867 6977078997898 6977078997928 6977078997959	50°C	50°C	45°C	--	-32%	-26%
	22x110 mm	<b>FX-QMR-G1-TT25H110-xx-0yy</b> EAN: 6977078998017 6977078998048 6977078998079 6977078998109 6977078998130 6977078998161	50°C	50°C	45°C	--	-70%	--

## LED Driver combination

All 24Vdc drivers provided by Inventronics are compatible with LINEARlight FLEX Infinite family. Here below are available, as a suggestion, some simple system combinations.

For 1 x LFP3000I-G1-927-24-03 L1– 58.8W

Product name	Product description	EAN 10
OT 100/220-240/24 P	On/off	6937186114976
OT 100/220-240/24 DIM P	1..10 V	6977770438408
OTi DALI 100/220-240/244CHDT6/8 P	DALI	6937186115157

## Customizations

LINEARlight FLEX INFINITE 24V can also meet customer needs with additional and alternative versions that are not included in the standard portfolio.

Below are some solutions that we can provide to customers.



INFINITE family is available from 2400K up to 4000K. Warmer or Colder CCT can be provided on request.



INFINITE family is available in 4 lumen packages. Different lm/m solutions can be provided on request.



INFINITE family is available with 3 different lengths. Longer reels (30, 40,...meters) can be provided on request. The maximum operable length will be the same of the standard product.



INFINITE products can be available with different operable lengths than defined in the standard portfolio.



INFINITE family is available with a flat cable soldered on one end. Different connection systems can be provided on request.

For further information please write to [support@inventronicsglobal.com](mailto:support@inventronicsglobal.com) or visit our website [design.inventronicsglobal.com/project](https://design.inventronicsglobal.com/project)

## 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.