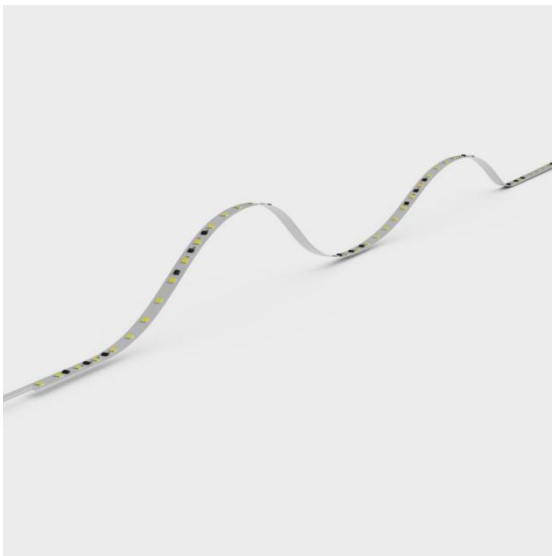




# LINEARlight FLEX INFINITE 24V – IP00

High efficiency flexible LED strip  
 LF500I/1500I/3000I/4000I-G1-xxx-24 L1

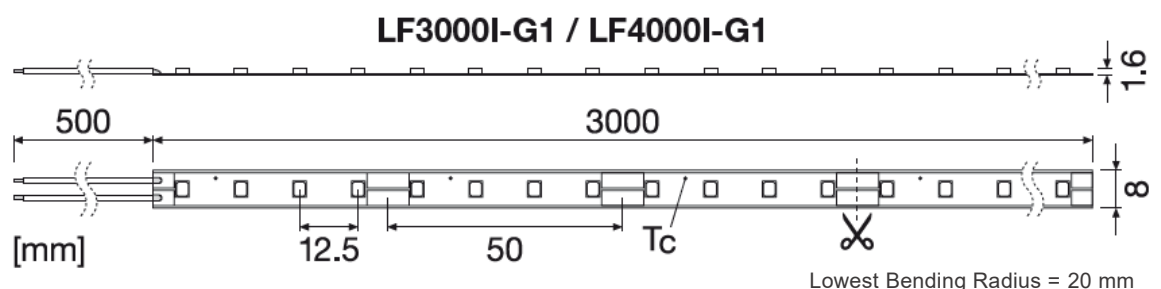
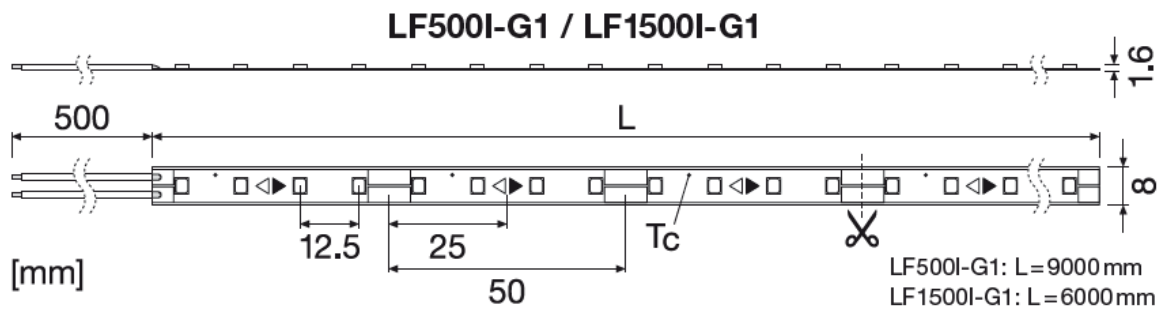


### Features & Benefits

- Flexible and cuttable LED strip up to 25mm
- Luminous flux: up to 4,000 lm/m
- 80led/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
- Simplified connection with optional matching CONNECTsystem
- Quick installation with optional SLIM TRACK System
- Made in Italy

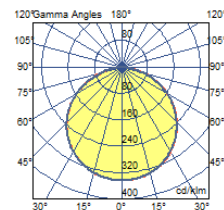


### Technical drawings



Product length = Max. operable length

<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...+85 °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.

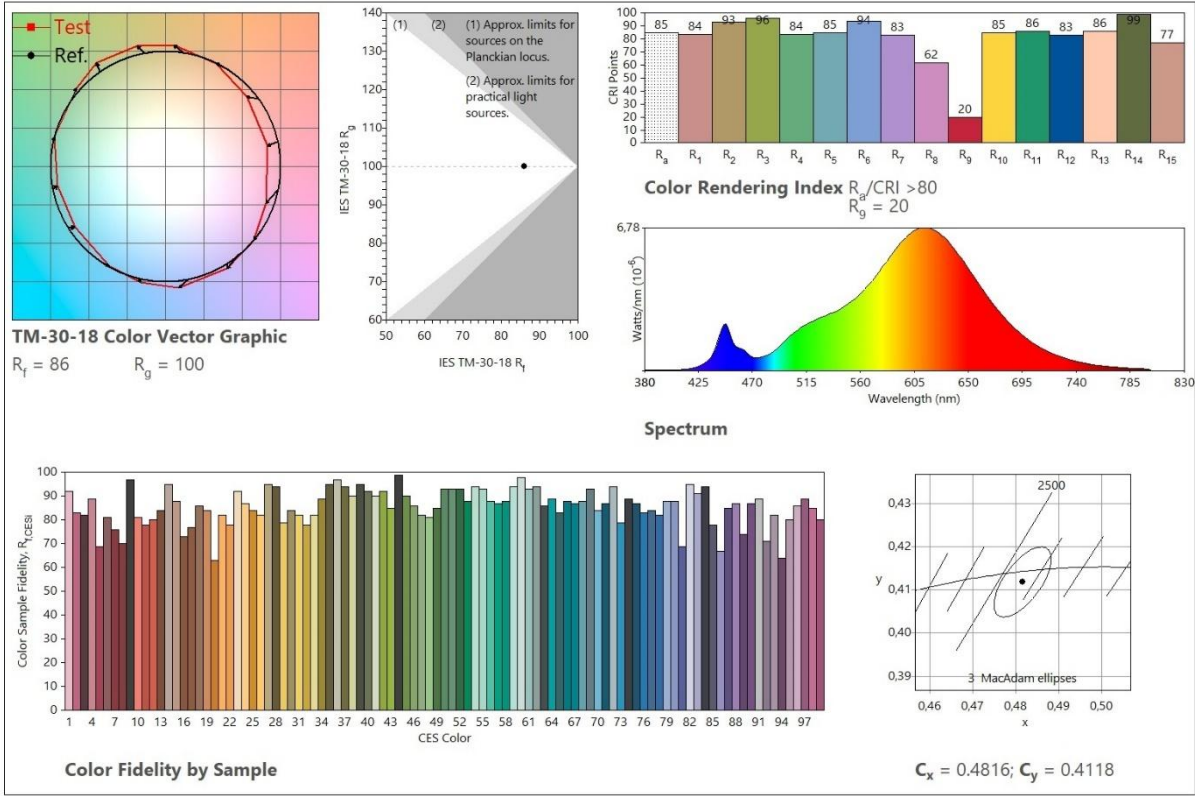
### Technical data

	<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	LF500I-G1-824-24-09 L1	2400 K	565	4	141	30	9
	LF500I-G1-827-24-09 L1	2700 K	590	4	148	30	9
	LF500I-G1-830-24-09 L1	3000 K	630	4	158	30	9
	LF500I-G1-840-24-09 L1	4000 K	684	4	171	30	9
1500lm/m	LF1500I-G1-824-24-06 L1	2400 K	1340	9.4	143	36	6
	LF1500I-G1-827-24-06 L1	2700 K	1400	9.4	149	36	6
	LF1500I-G1-830-24-06 L1	3000 K	1500	9.4	160	36	6
	LF1500I-G1-840-24-06 L1	4000 K	1610	9.4	171	36	6
3000lm/m	LF3000I-G1-824-24-03 L1	2400 K	2700	19.2	141	45	3
	LF3000I-G1-827-24-03 L1	2700 K	2810	19.2	146	45	3
	LF3000I-G1-830-24-03 L1	3000 K	3020	19.2	157	45	3
	LF3000I-G1-840-24-03 L1	4000 K	3210	19.2	167	45	3
4000lm/m	LF4000I-G1-824-24-03 L1	2400 K	3450	25.2	137	52	3
	LF4000I-G1-827-24-03 L1	2700 K	3610	25.2	143	52	3
	LF4000I-G1-830-24-03 L1	3000 K	3900	25.2	155	52	3
	LF4000I-G1-840-24-03 L1	4000 K	4020	25.2	160	52	3

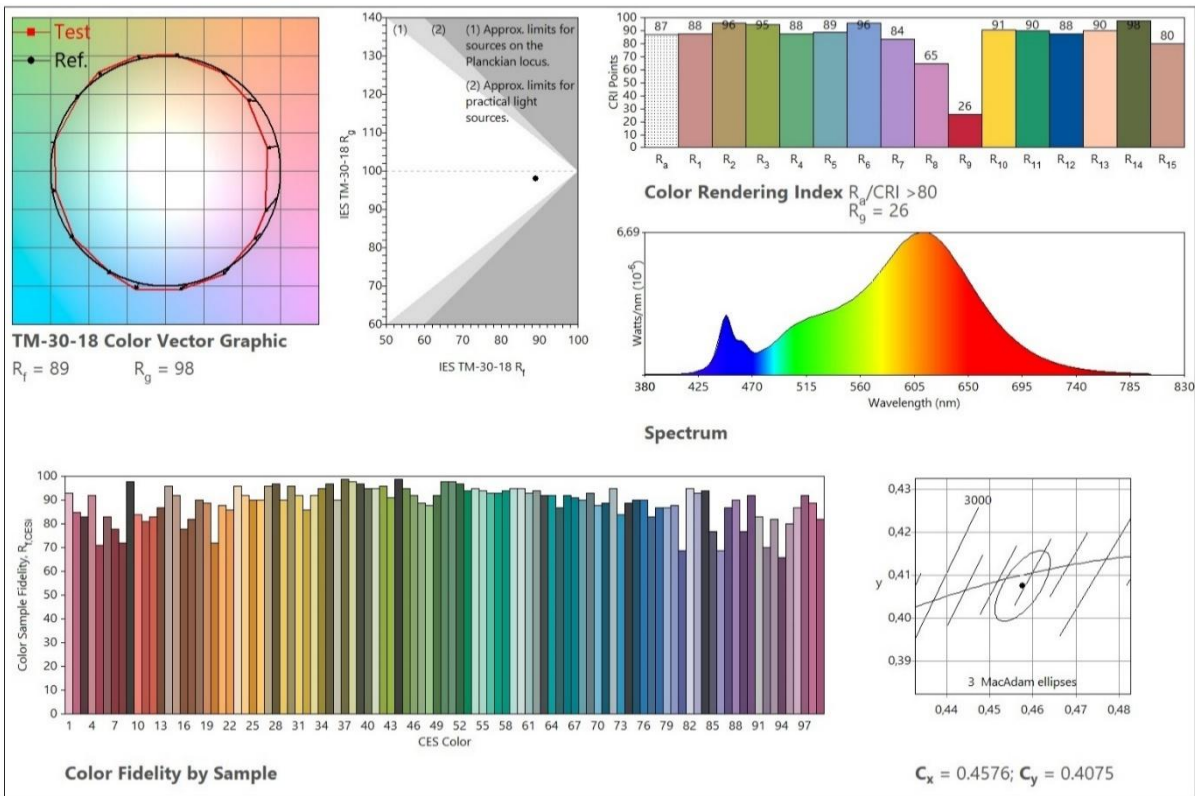
	<b>CRI 90+</b>	<b>Nominal CCT</b> <small>See color output data</small>	<b>Luminous Flux</b> lm/m	<b>Power</b> W/m	<b>Luminous Efficacy</b> lm/W	<b>Performance Temperature</b> °C	<b>Length</b> m
500lm/m	LF500I-G1-924-24-09 L1	2400 K	465	4	116	30	9
	LF500I-G1-927-24-09 L1	2700 K	490	4	123	30	9
	LF500I-G1-930-24-09 L1	3000 K	520	4	130	30	9
	LF500I-G1-940-24-09 L1	4000 K	540	4	135	30	9
1500lm/m	LF1500I-G1-924-24-06 L1	2400 K	1110	9.4	118	36	6
	LF1500I-G1-927-24-06 L1	2700 K	1160	9.4	123	36	6
	LF1500I-G1-930-24-06 L1	3000 K	1230	9.4	131	36	6
	LF1500I-G1-940-24-06 L1	4000 K	1300	9.4	138	36	6
3000lm/m	LF3000I-G1-924-24-03 L1	2400 K	2220	19.2	116	45	3
	LF3000I-G1-927-24-03 L1	2700 K	2310	19.2	120	45	3
	LF3000I-G1-930-24-03 L1	3000 K	2470	19.2	129	45	3
	LF3000I-G1-940-24-03 L1	4000 K	2600	19.2	135	45	3
4000lm/m	LF4000I-G1-924-24-03 L1	2400 K	2850	25.2	113	52	3
	LF4000I-G1-927-24-03 L1	2700 K	2990	25.2	119	52	3
	LF4000I-G1-930-24-03 L1	3000 K	3200	25.2	127	52	3
	LF4000I-G1-940-24-03 L1	4000 K	3350	25.2	133	52	3

Color output data CRI 80+

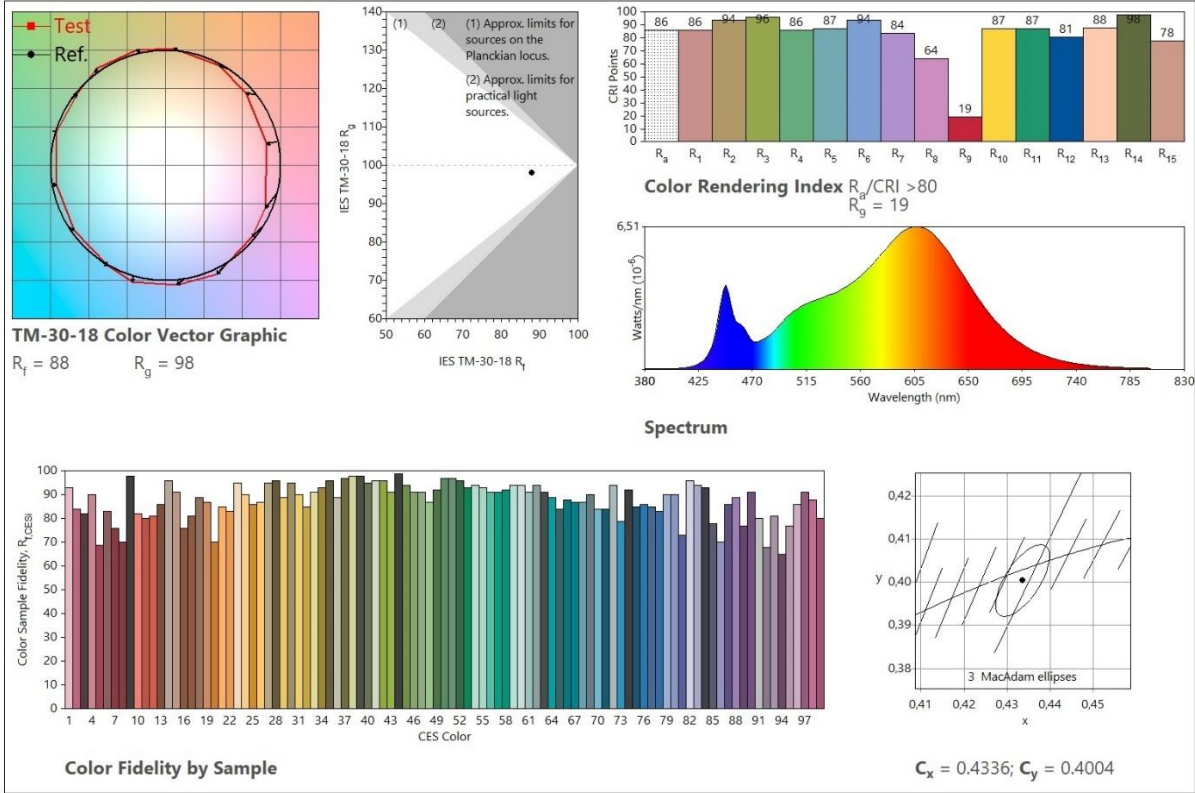
LFxx00I-G1-824-24-yy L1



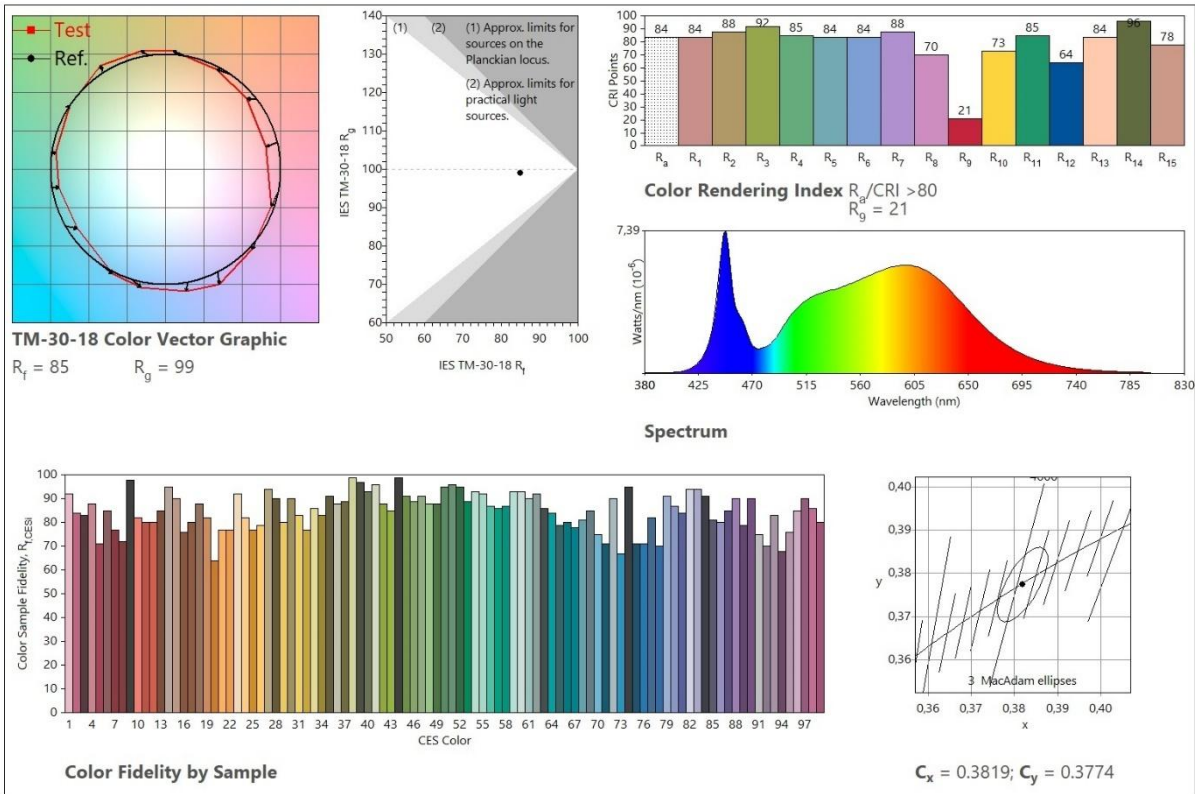
LFxx00I-G1-827-24-yy L1



**LFxx00I-G1-830-24-yy L1**

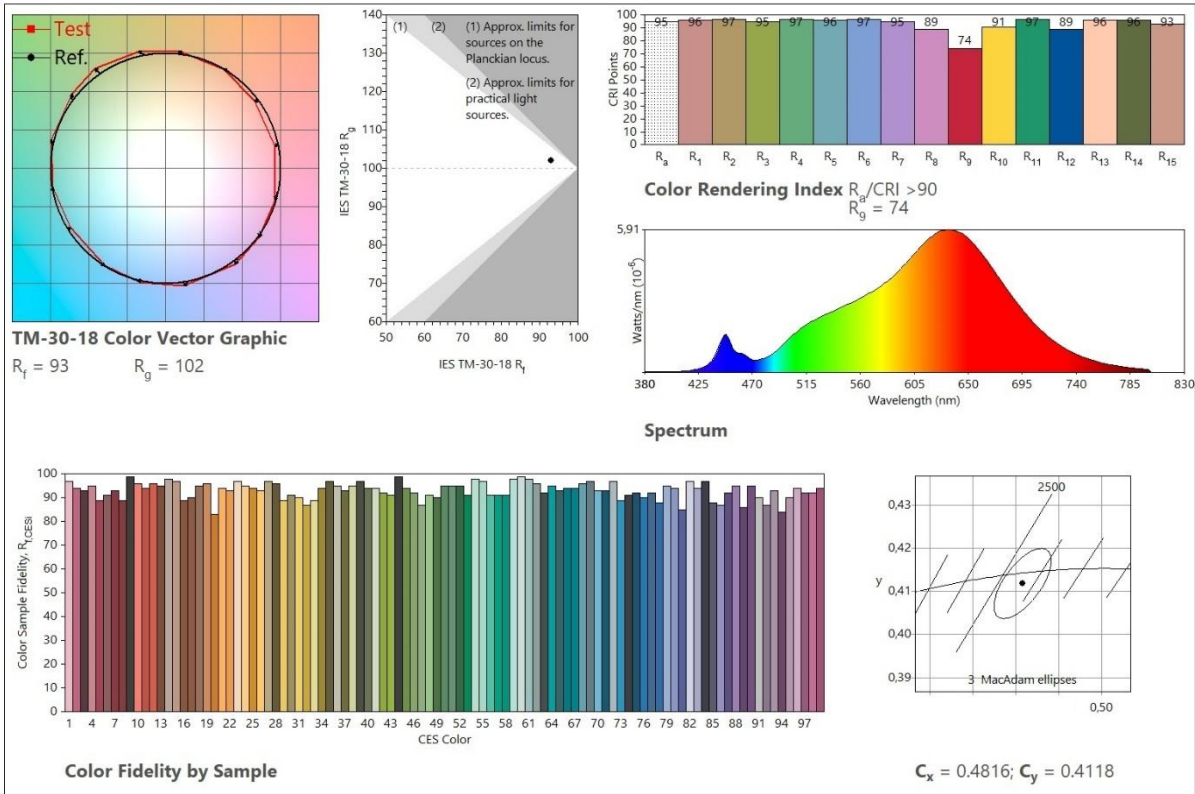


**LFxx00I-G1-840-24-yy L1**

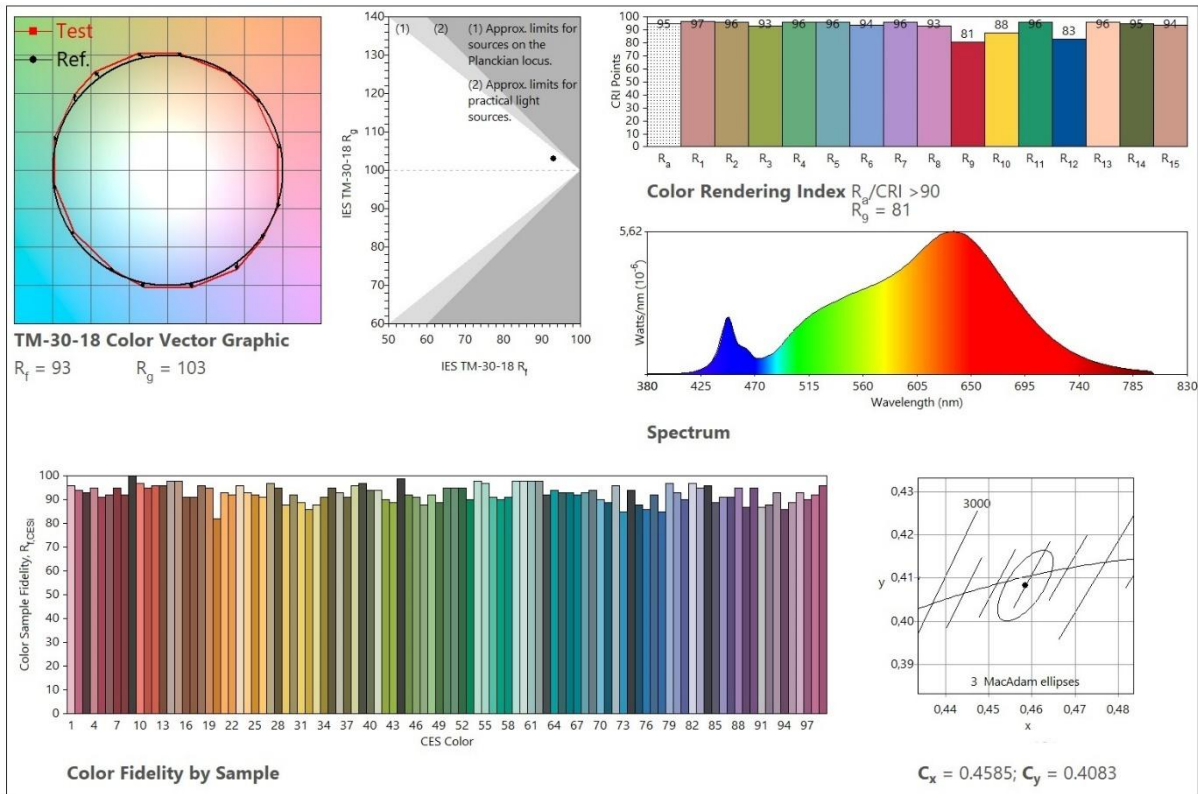


Color output data CRI 90+

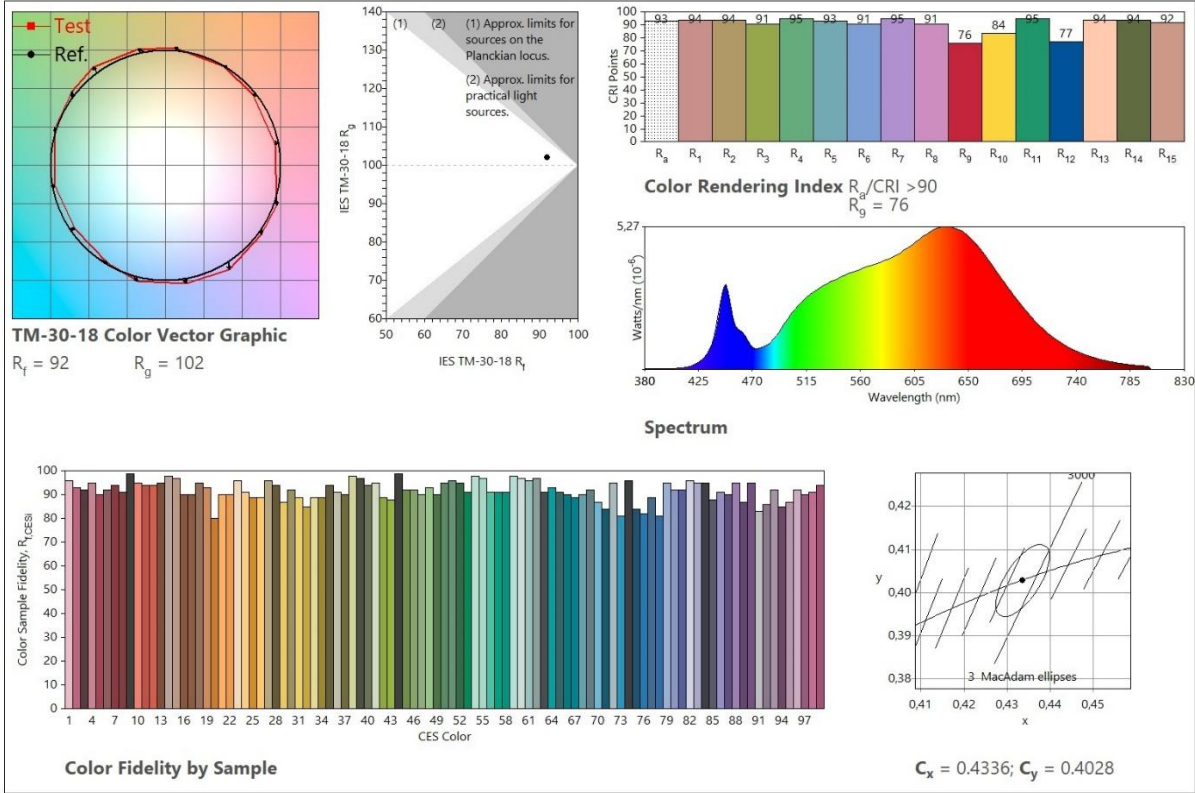
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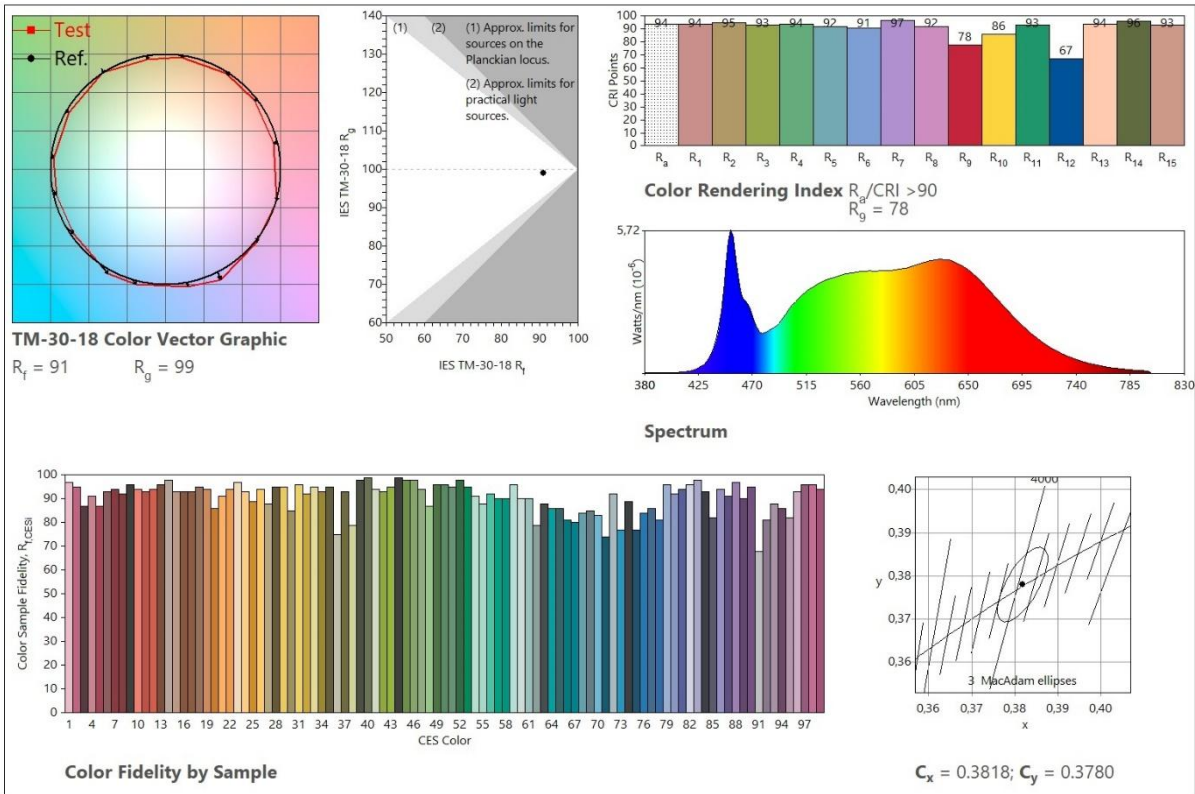
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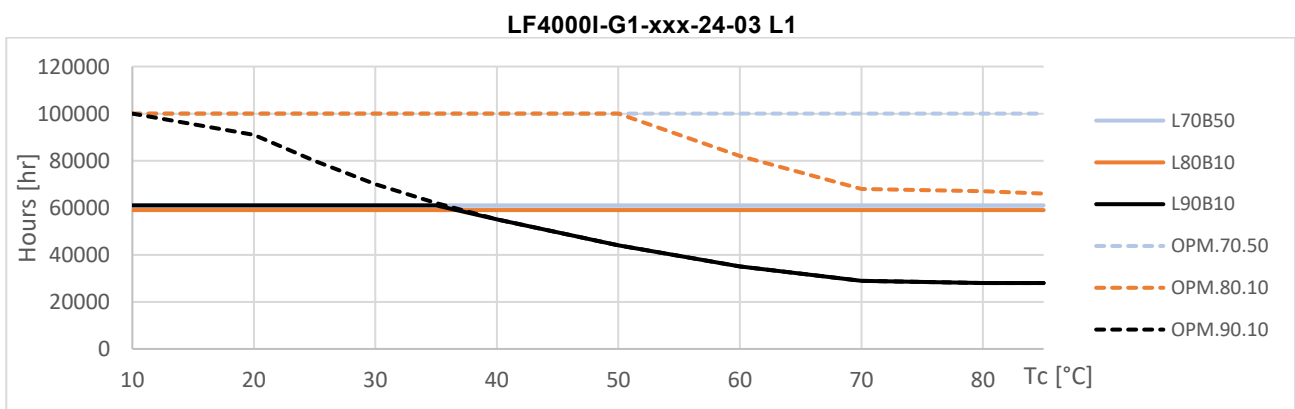
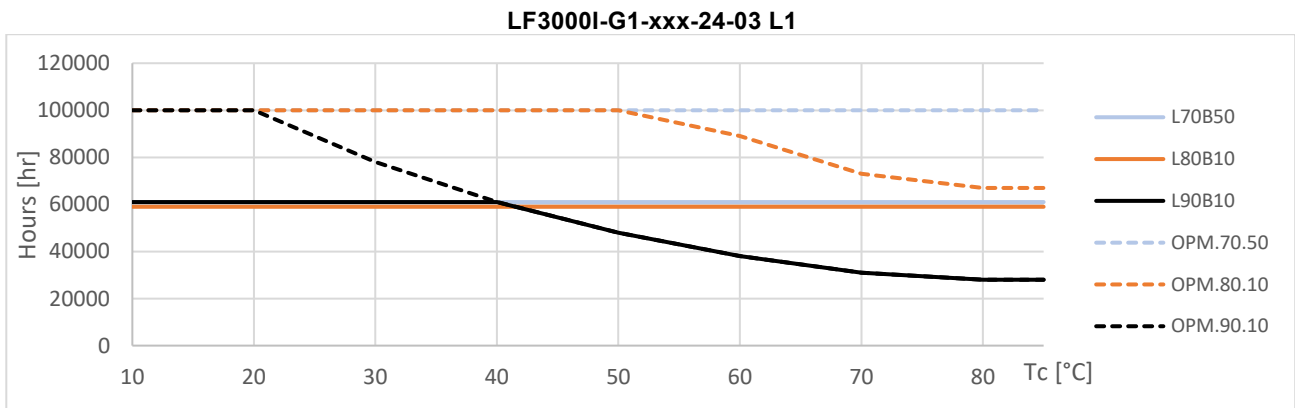
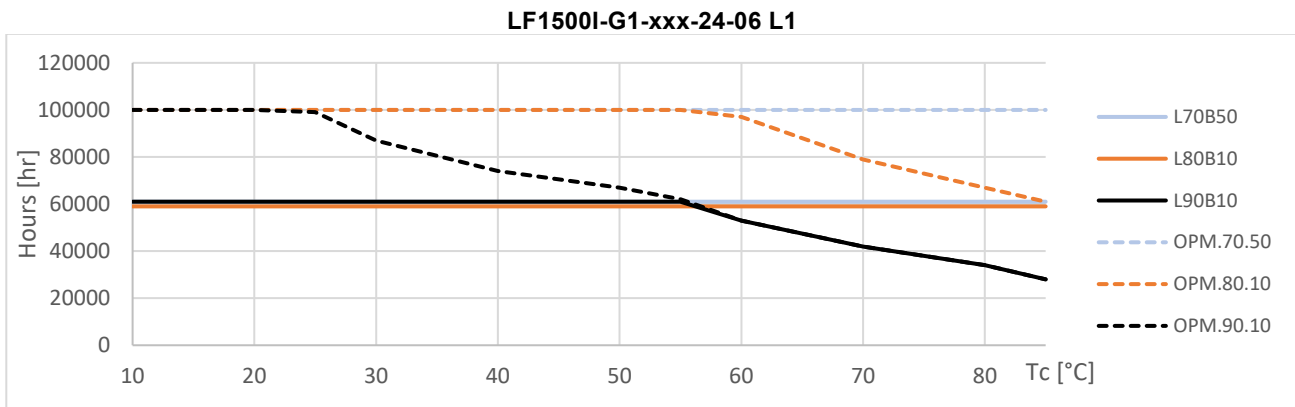
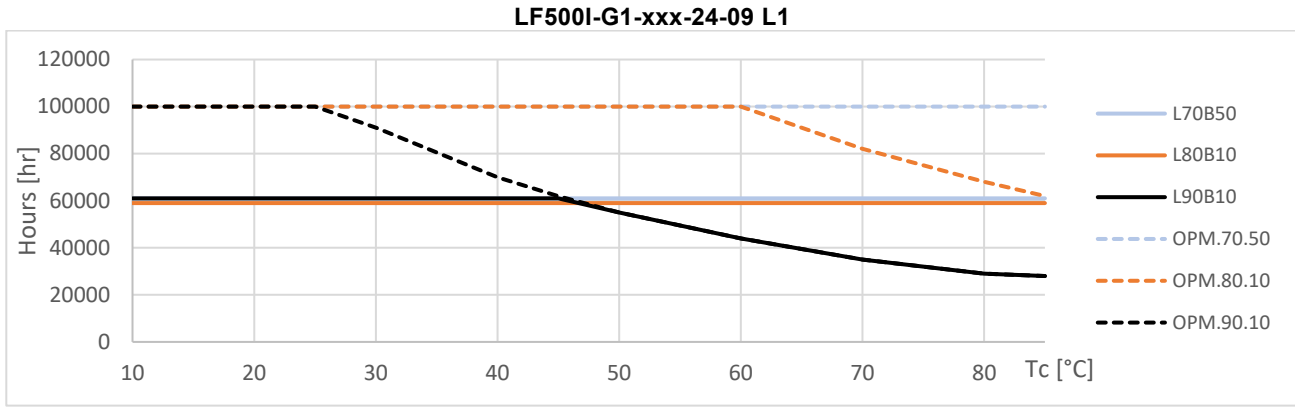
**LFxx00I-G1-930-24-yy L1**



**LFxx00I-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
LF500I-G1-824-24-09 L1	6937186116536	1x Led strip <b>with single</b> pre-soldered wire
LF500I-G1-827-24-09 L1	6937186116550	1x Led strip <b>with single</b> pre-soldered wire
LF500I-G1-830-24-09 L1	6937186116574	1x Led strip <b>with single</b> pre-soldered wire
LF500I-G1-840-24-09 L1	6937186116598	1x Led strip <b>with single</b> pre-soldered wire
LF1500I-G1-824-24-06 L1	6937186116697	1x Led strip <b>with single</b> pre-soldered wire
LF1500I-G1-827-24-06 L1	6937186116710	1x Led strip <b>with single</b> pre-soldered wire
LF1500I-G1-830-24-06 L1	6937186116734	1x Led strip <b>with single</b> pre-soldered wire
LF1500I-G1-840-24-06 L1	6937186116758	1x Led strip <b>with single</b> pre-soldered wire
LF3000I-G1-824-24-03 L1	6937186116857	1x Led strip <b>with single</b> pre-soldered wire
LF3000I-G1-827-24-03 L1	6937186116871	1x Led strip <b>with single</b> pre-soldered wire
LF3000I-G1-830-24-03 L1	6937186116895	1x Led strip <b>with single</b> pre-soldered wire
LF3000I-G1-840-24-03 L1	6937186116918	1x Led strip <b>with single</b> pre-soldered wire
LF4000I-G1-824-24-03 L1	6937186117014	1x Led strip <b>with single</b> pre-soldered wire
LF4000I-G1-827-24-03 L1	6937186117038	1x Led strip <b>with single</b> pre-soldered wire
LF4000I-G1-830-24-03 L1	6937186117052	1x Led strip <b>with single</b> pre-soldered wire
LF4000I-G1-840-24-03 L1	6937186117076	1x Led strip <b>with single</b> pre-soldered wire
LF500I-G1-924-24-09 L1	6937186116611	1x Led strip <b>with single</b> pre-soldered wire
LF500I-G1-927-24-09 L1	6937186116635	1x Led strip <b>with single</b> pre-soldered wire
LF500I-G1-930-24-09 L1	6937186116659	1x Led strip <b>with single</b> pre-soldered wire
LF500I-G1-940-24-09 L1	6937186116673	1x Led strip <b>with single</b> pre-soldered wire
LF1500I-G1-924-24-06 L1	6937186116772	1x Led strip <b>with single</b> pre-soldered wire
LF1500I-G1-927-24-06 L1	6937186116796	1x Led strip <b>with single</b> pre-soldered wire
LF1500I-G1-930-24-06 L1	6937186116819	1x Led strip <b>with single</b> pre-soldered wire
LF1500I-G1-940-24-06 L1	6937186116833	1x Led strip <b>with single</b> pre-soldered wire
LF3000I-G1-924-24-03 L1	6937186116932	1x Led strip <b>with single</b> pre-soldered wire
LF3000I-G1-927-24-03 L1	6937186116956	1x Led strip <b>with single</b> pre-soldered wire
LF3000I-G1-930-24-03 L1	6937186116970	1x Led strip <b>with single</b> pre-soldered wire
LF3000I-G1-940-24-03 L1	6937186116994	1x Led strip <b>with single</b> pre-soldered wire
LF4000I-G1-924-24-03 L1	6937186117090	1x Led strip <b>with single</b> pre-soldered wire
LF4000I-G1-927-24-03 L1	6937186117113	1x Led strip <b>with single</b> pre-soldered wire
LF4000I-G1-930-24-03 L1	6937186117137	1x Led strip <b>with single</b> pre-soldered wire
LF4000I-G1-940-24-03 L1	6937186117151	1x Led strip <b>with single</b> pre-soldered wire

### Optional Accessories

Product Type	Product description	Product code (EAN10)	EAN10 Package content
 <b>2pin Connector 500mm cable</b>	<b>CONN-FLEX-2P-050 KIT 10PCS</b>	6937186141088	10 x Connectors
 <b>2pin Connector 2000mm cable</b>	<b>CONN-FLEX-2P-200 KIT 10PCS</b>	6937186141101	10 x Connectors
 <b>Bridge 30 mm cable</b>	<b>CORNER-FLEX-4P-003 KIT 10PCS</b>	6937186141262	10 x Bridges
 <b>Bridge 150 mm cable</b>	<b>CORNER-FLEX-4P-015 KIT 10PCS</b>	6937186141286	10 x Bridges

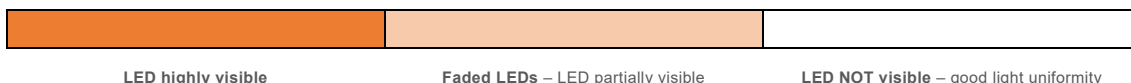
**Note:** All LINEARlight Flex LED strips are fully compatible with INVENTRONICS LED drivers and dimmers.

### 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:*



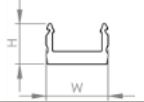
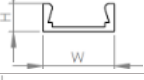
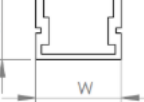
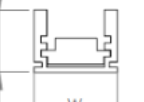


- **OPTICAL PERFORMANCES - OPTICAL EFFICIENCY:** it represents, in percentage, the amount of light lost due to the system used. If the percentage is not available, it means that the cover does not exist or cannot be used.

Eg: LF1500I-G1-824-24-06 L1 + LTS-SLIMTRACK-2000 + Flat Cover transparent

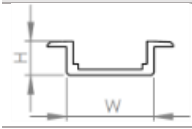
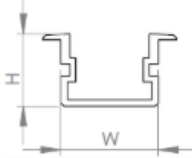
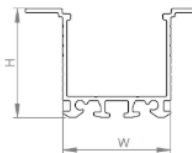
$$1340 \text{ lm/m} \times (-20\%) = 1072 \text{ lm/m}$$

1072 lm/m is the lumen output outside the system.

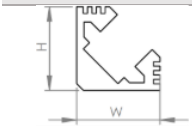
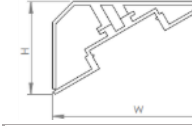
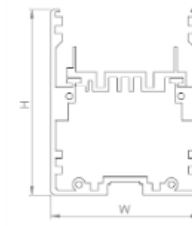
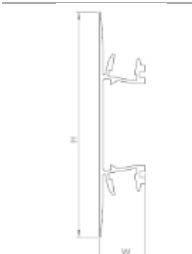
**SURFACE INSTALLATION**

Track Type	Dimension WxH	Product description	Max Tamb [°C]				OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)		
			LF500I LF1500I	LF3000I	LF4000I	Flat Cover Transparent	Flat Cover Frosted or Opal	Round Cover Frosted or lens	
	15x10 mm	<b>LTS-SLIMTRACK-2000</b> EAN:6937186141200	55 °C	55 °C	45 °C	-20%	-35%	-40%	
	15x6 mm	<b>FX-QMS-G2-TU15H6-300</b> EAN:6937186130860	55 °C	50 °C	40 °C	-15%	-40%	--	
	16x12 mm	<b>FX-QMS-G1-TU16H12-300</b> EAN:6937186126740	55 °C	50 °C	45 °C	-24%	-45%	--	
	16x12 mm	<b>FX-QMS-G1-TU16H12LS-300</b> EAN:6937186148421	55 °C	50 °C	45 °C	--	--	-30%	
	26x10 mm	<b>FX-QMW-G2-TU26H10-200</b> EAN: 6937186126849	55 °C	55 °C	45 °C	--	--	-30%	
	26x25 mm	<b>FX-QMW-G2-TU26H25-200</b> EAN: 6937186126825	55 °C	55 °C	55 °C	--	-55%	-50%	

**RECESSED INSTALLATION**

Track Type	Dimension WxH	Product description	Max Tamb [°C]			OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)				
			LF500I LF1500I	LF3000I	LF4000I	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	45 °C	35 °C	-15%	-40%	-		
	16x12 mm	<b>FX-QMS-G1-TU16H12W3-300</b> EAN:6937186146229	55 °C	45 °C	40 °C	-24%	-45%	--		
	26x25 mm	<b>FX-QMW-G2-TU26H25W10-200</b> EAN: 6937186126801	55 °C	55 °C	50 °C	--	-55%	-50%		

**SPECIAL INSTALLATION**

Track Type	Dimension WxH	Product description	Max Tamb [°C]			OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)				
			LF500I LF1500I	LF3000I	LF4000I	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	55°C	45°C	-38%	-57%	--		
	46 x 27 mm	<b>FX-QMW-G1-TK30D46H27-300</b> EAN:6937186148407	55 °C	55 °C	50 °C	--	-39%	-43%		
	56x70 mm	<b>FX-QMP-G1-TU56H70-xx-0yy</b> EAN: 6977078997805 6977078997836 6977078997867 6977078997898 6977078997928 6977078997959	50°C	50°C	50°C	--	-32%	-26%		
	22x110 mm	<b>FX-QMR-G1-TT25H110-xx-0yy</b> EAN: 6977078998017 6977078998048 6977078998079 6977078998109 6977078998130 6977078998161	50°C	50°C	50°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 LF1500I-G1-827-24-06 L1– 56.4 W

Product name	Product description	EAN 10
OT SLIM 60/220-240/24	On/off	6977770438712
OT WI 80/220-240/24 4CH CA	Bluetooth – Casambi	6937186115171
OTi DALI 80/220-240/24 1CH G3	DALI	6977770431867

## 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.