



LINEARlight FLEX INFINITE 48V – IP66/68

High efficiency flexible LED strip
LFP500I/1500I/3000I/4000I-G1-xxx-48 L1

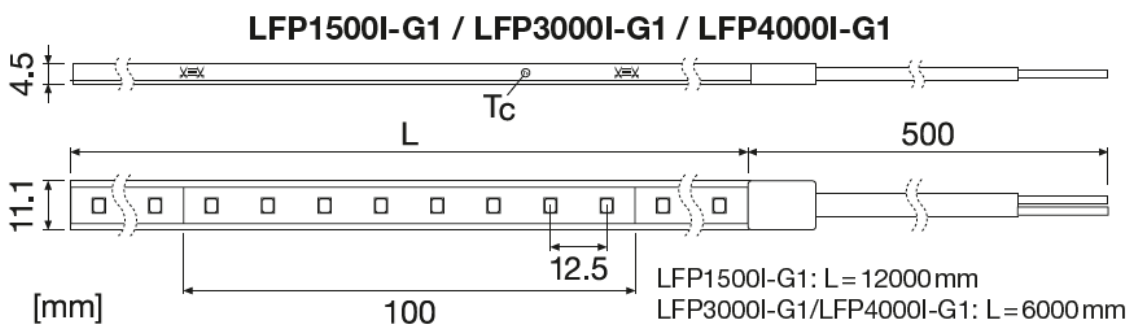
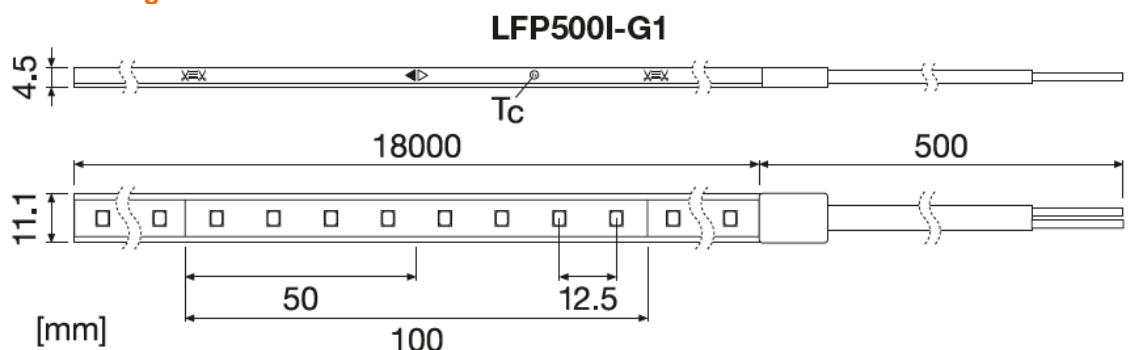


Features & Benefits

- Flexible and cuttable LED strip up to 50mm
- 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

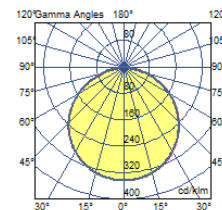


Technical drawings



Lowest Bending Radius = 50 mm - Product length = Max. operable length

Nominal Voltage	48.0 V - (45.6 V...50.4 V)
Reverse voltage protection up to	50.4 V
Temperature range in operation @ Tc point	-30 °C...+80 °C**
Storage Temperature	-40 °C...+85 °C
Ambient Temperature with profile **	-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.

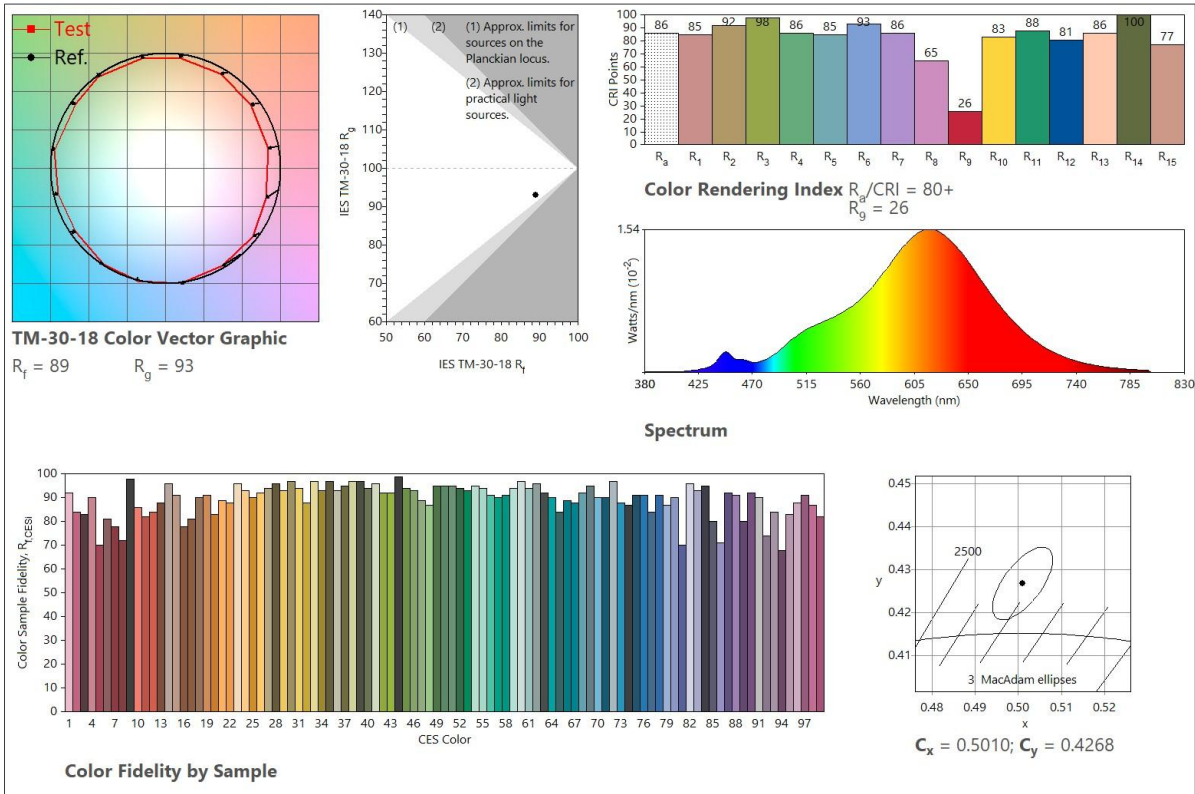
Technical data

	CRI 80+	Nominal CCT <small>See color output data</small>	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temperature °C	Length m
500lm/m	LFP500I-G1-824-48-18 L1	2400 K	505	4	126	30	18
	LFP500I-G1-827-48-18 L1	2700 K	550	4	138	30	18
	LFP500I-G1-830-48-18 L1	3000 K	595	4	149	30	18
	LFP500I-G1-840-48-18 L1	4000 K	630	4	158	30	18
1500lm/m	LFP1500I-G1-824-48-12 L1	2400 K	1240	9,8	127	36	12
	LFP1500I-G1-827-48-12 L1	2700 K	1360	9,8	139	36	12
	LFP1500I-G1-830-48-12 L1	3000 K	1460	9,8	149	36	12
	LFP1500I-G1-840-48-12 L1	4000 K	1550	9,8	158	36	12
3000lm/m	LFP3000I-G1-824-48-06 L1	2400 K	2470	19,6	126	45	6
	LFP3000I-G1-827-48-06 L1	2700 K	2720	19,6	139	45	6
	LFP3000I-G1-830-48-06 L1	3000 K	2910	19,6	148	45	6
	LFP3000I-G1-840-48-06 L1	4000 K	3090	19,6	158	45	6
4000lm/m	LFP4000I-G1-824-48-06 L1	2400 K	3210	26,4	122	52	6
	LFP4000I-G1-827-48-06 L1	2700 K	3580	26,4	136	52	6
	LFP4000I-G1-830-48-06 L1	3000 K	3850	26,4	146	52	6
	LFP4000I-G1-840-48-06 L1	4000 K	4080	26,4	155	52	6

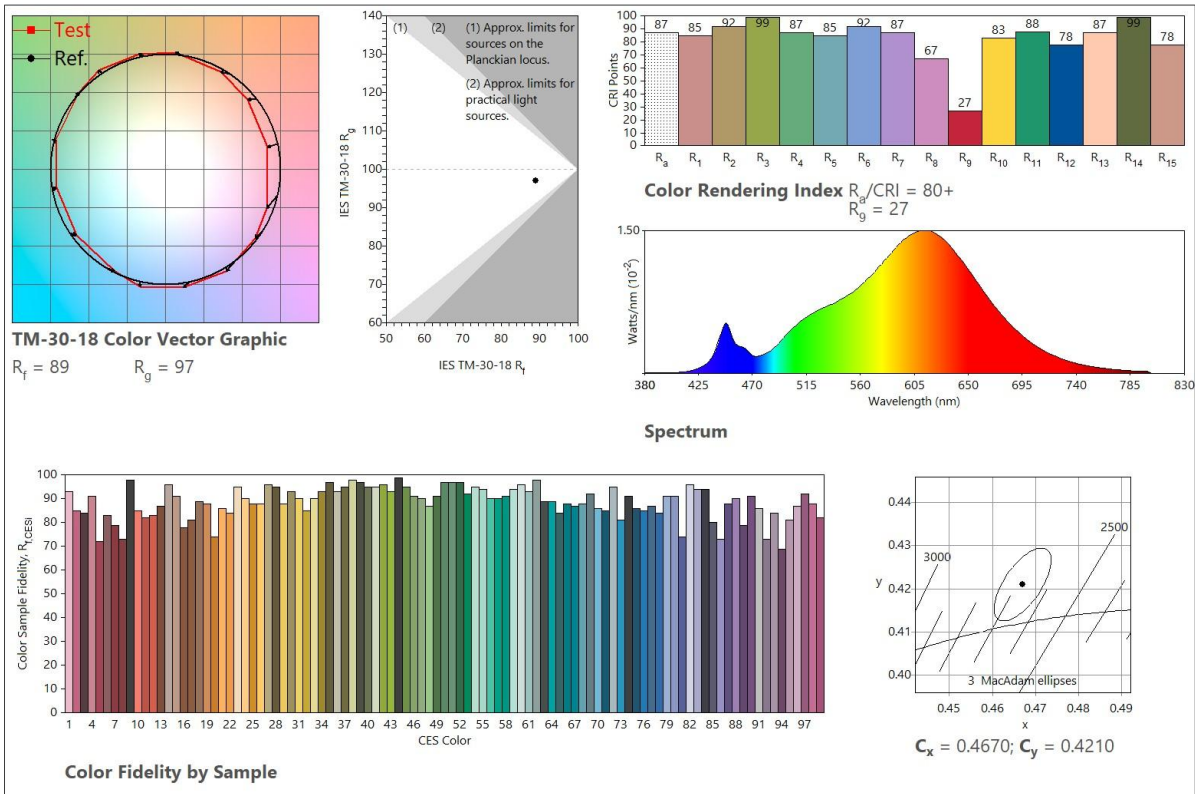
	CRI 90+	Nominal CCT <small>See color output data</small>	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temperature °C	Length m
500lm/m	LFP500I-G1-924-48-18 L1	2400 K	430	4	108	30	18
	LFP500I-G1-927-48-18 L1	2700 K	475	4	119	30	18
	LFP500I-G1-930-48-18 L1	3000 K	510	4	128	30	18
	LFP500I-G1-940-48-18 L1	4000 K	550	4	138	30	18
1500lm/m	LFP1500I-G1-924-48-12 L1	2400 K	1060	9,8	108	36	12
	LFP1500I-G1-927-48-12 L1	2700 K	1160	9,8	118	36	12
	LFP1500I-G1-930-48-12 L1	3000 K	1260	9,8	129	36	12
	LFP1500I-G1-940-48-12 L1	4000 K	1360	9,8	139	36	12
3000lm/m	LFP3000I-G1-924-48-06 L1	2400 K	2100	19,6	107	45	6
	LFP3000I-G1-927-48-06 L1	2700 K	2290	19,6	117	45	6
	LFP3000I-G1-930-48-06 L1	3000 K	2500	19,6	128	45	6
	LFP3000I-G1-940-48-06 L1	4000 K	2690	19,6	137	45	6
4000lm/m	LFP4000I-G1-924-48-06 L1	2400 K	2780	26,4	105	52	6
	LFP4000I-G1-927-48-06 L1	2700 K	3000	26,4	114	52	6
	LFP4000I-G1-930-48-06 L1	3000 K	3310	26,4	125	52	6
	LFP4000I-G1-940-48-06 L1	4000 K	3550	26,4	134	52	6

Color output data CRI 80+

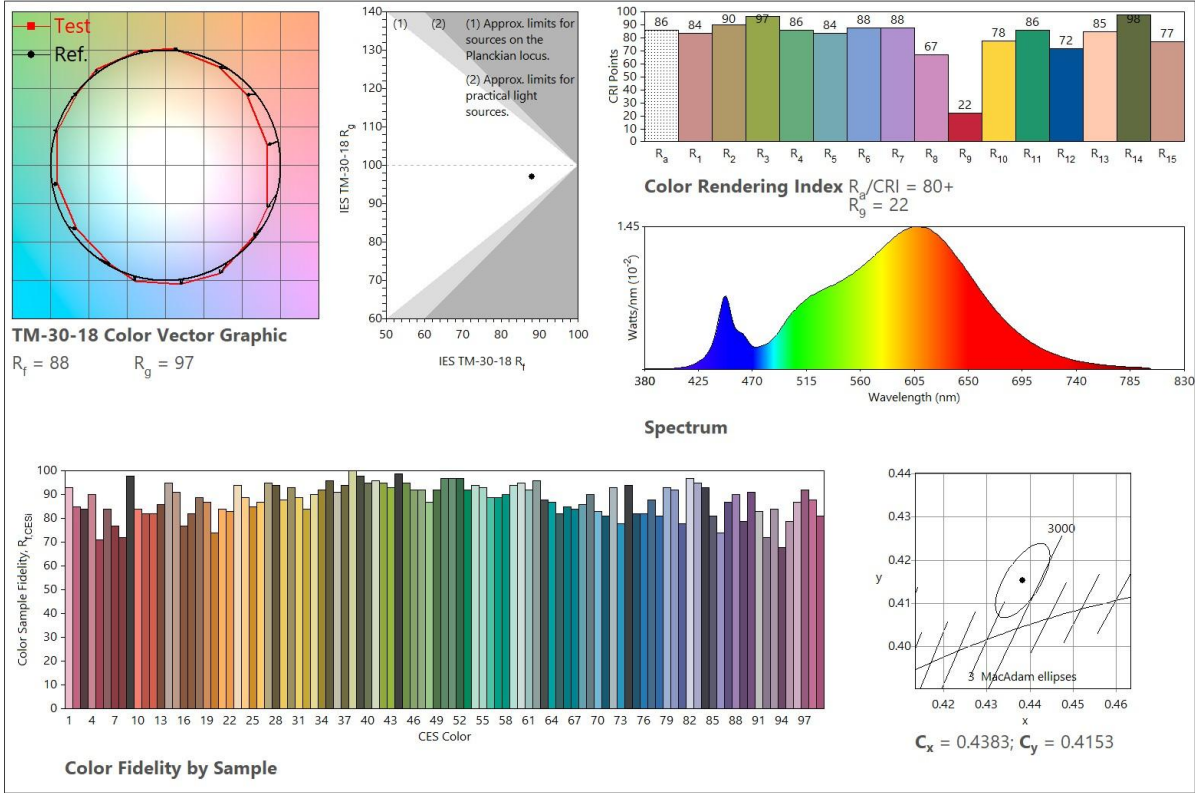
LFPxx00I-G1-824-48-yy L1



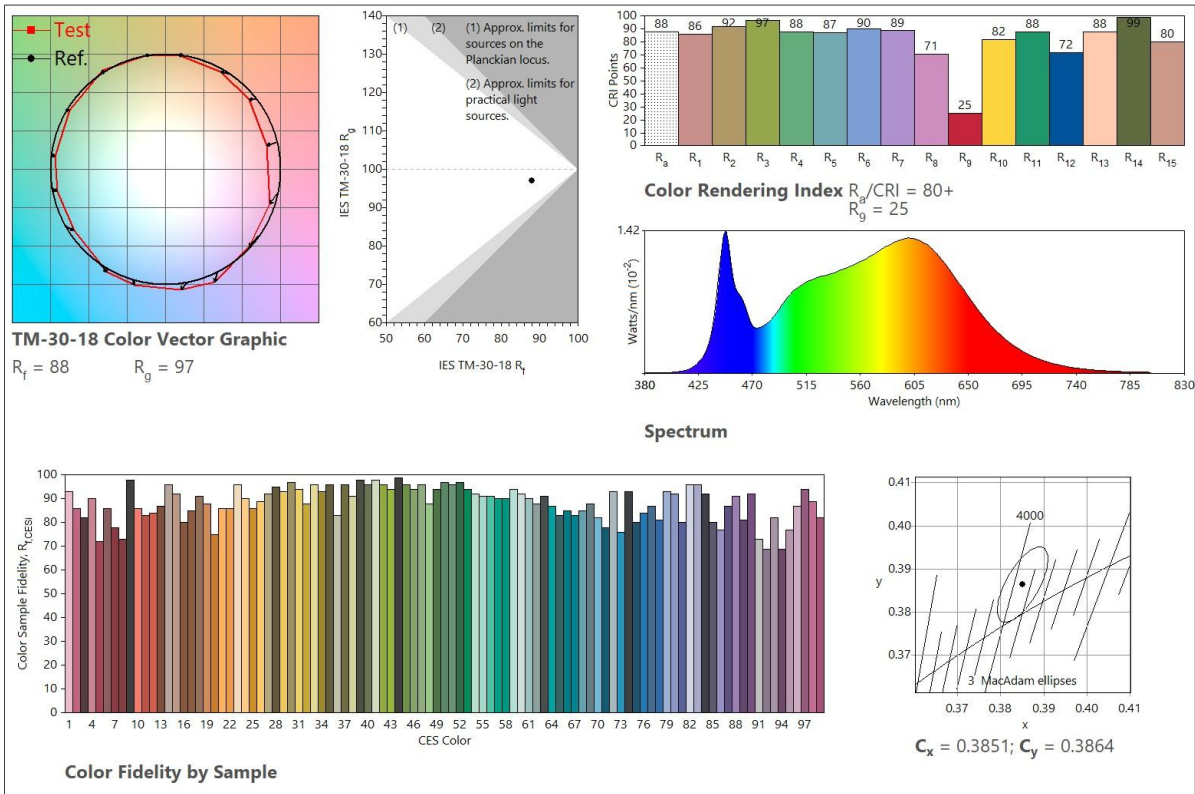
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LFPxx00I-G1-830-48-yy L1

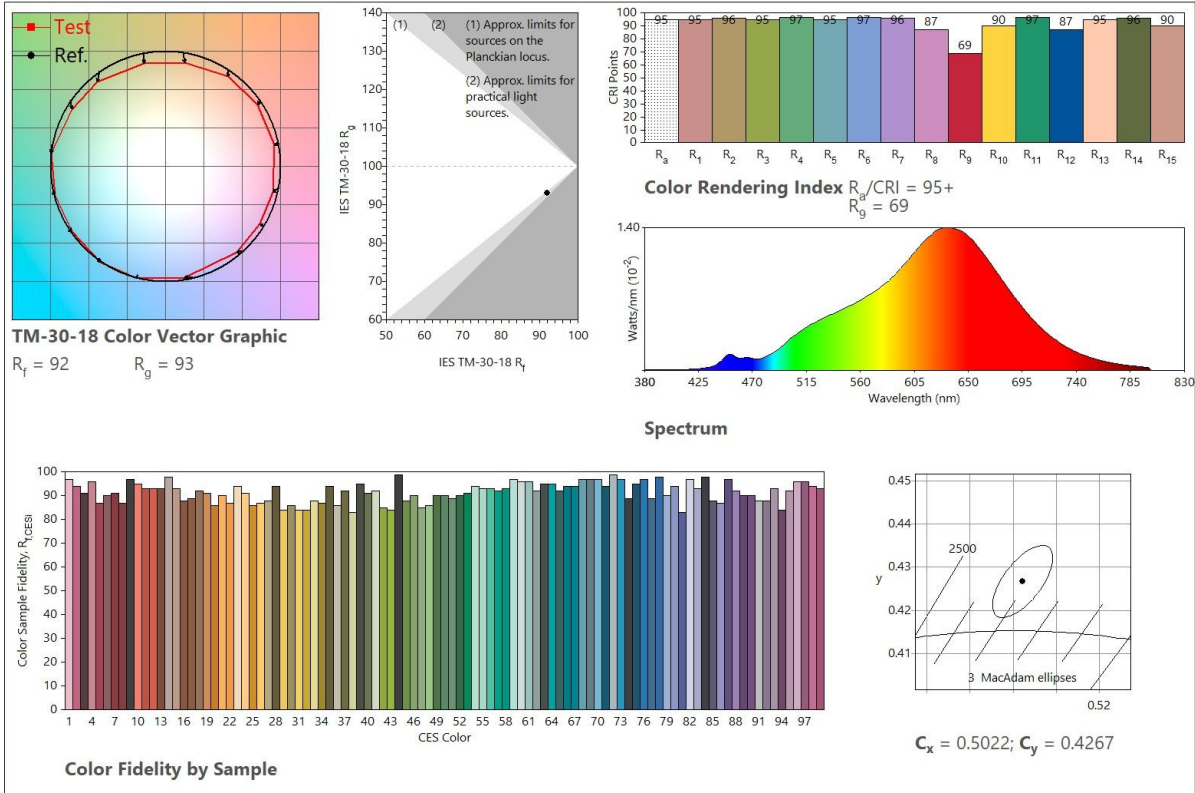


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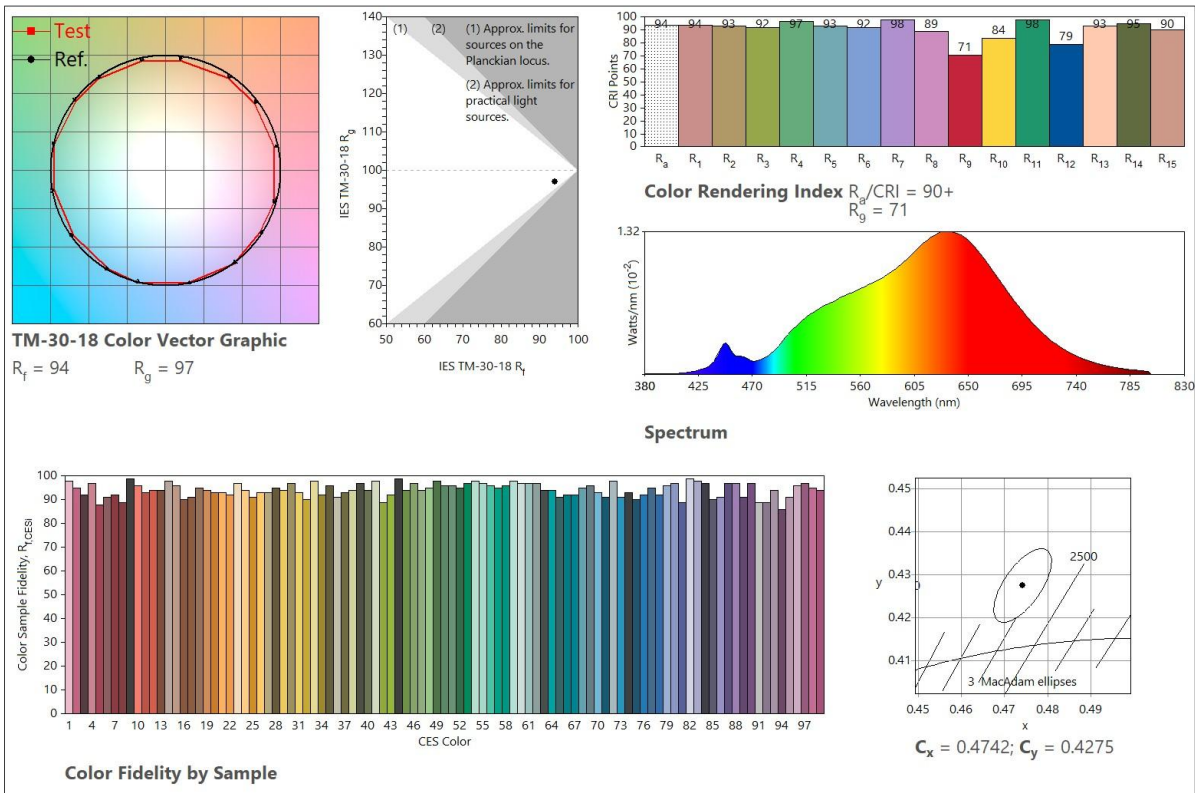


Color output data CRI 90+

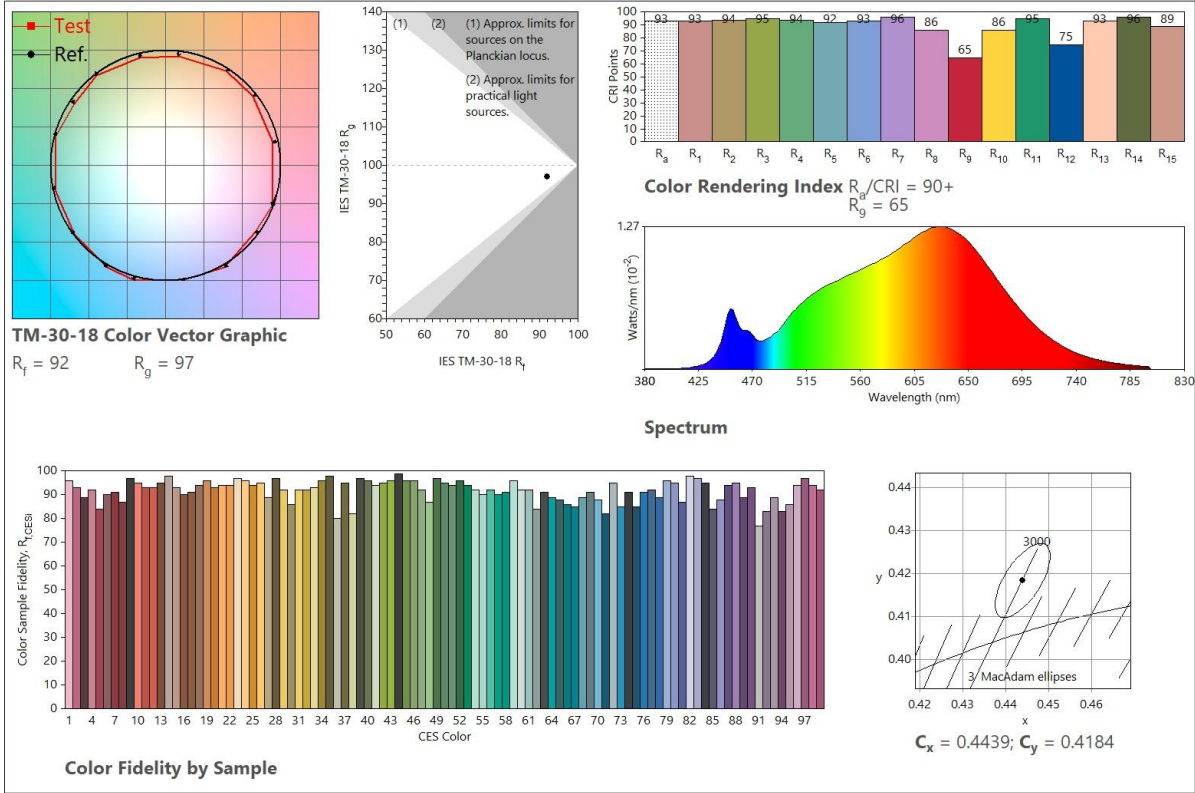
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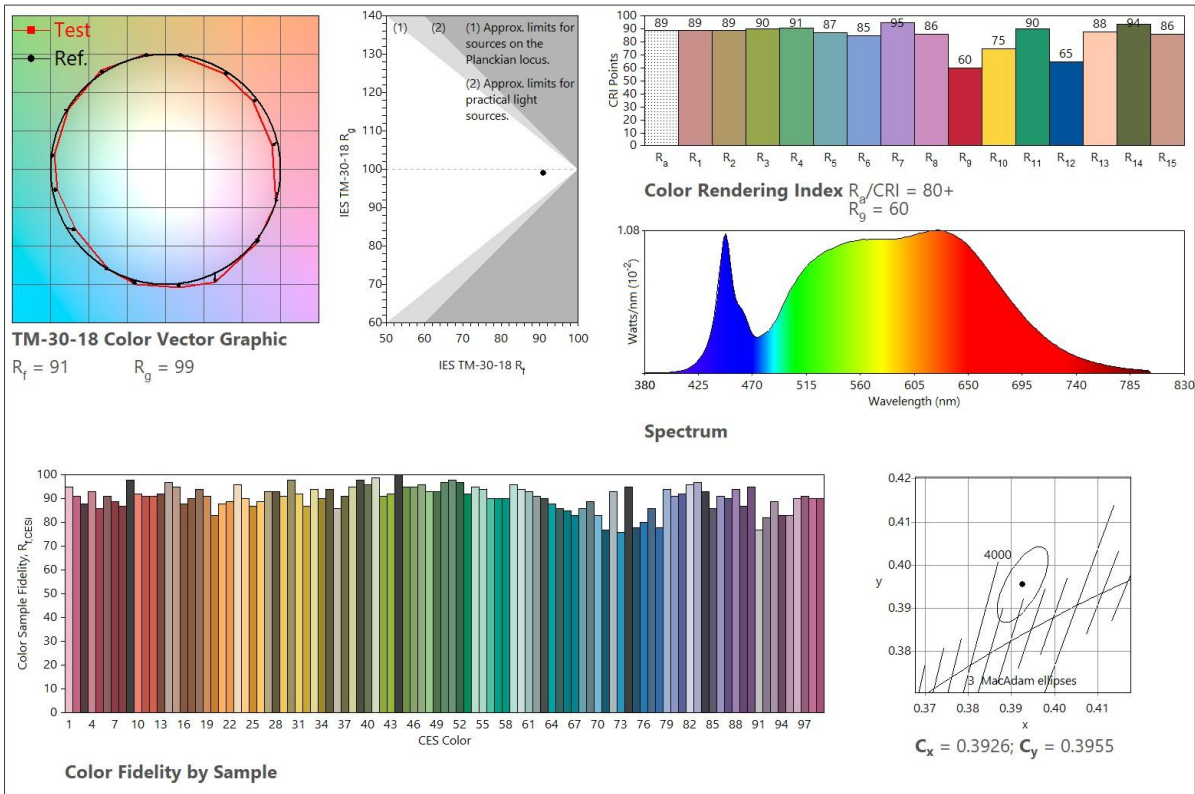
LFPxx00I-G1-927-48-yy L1



LFPxx00I-G1-930-48-yy L1

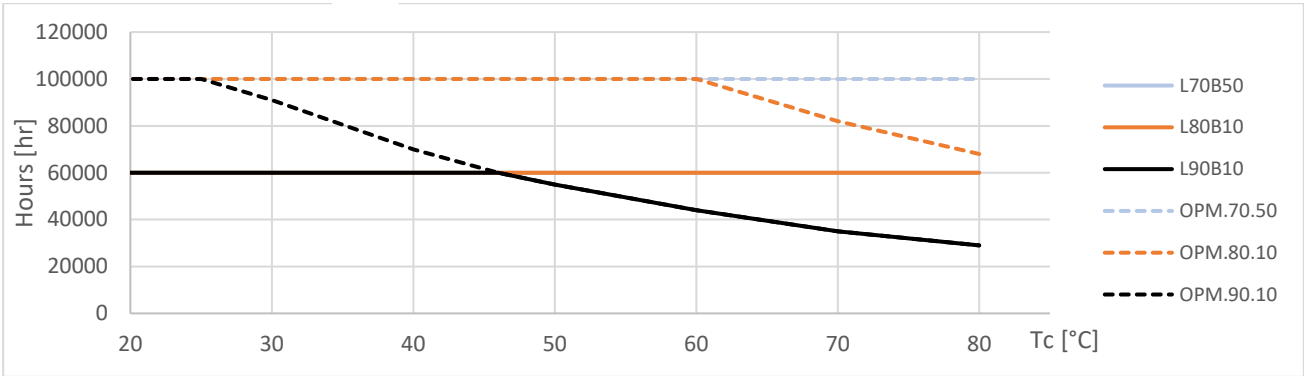


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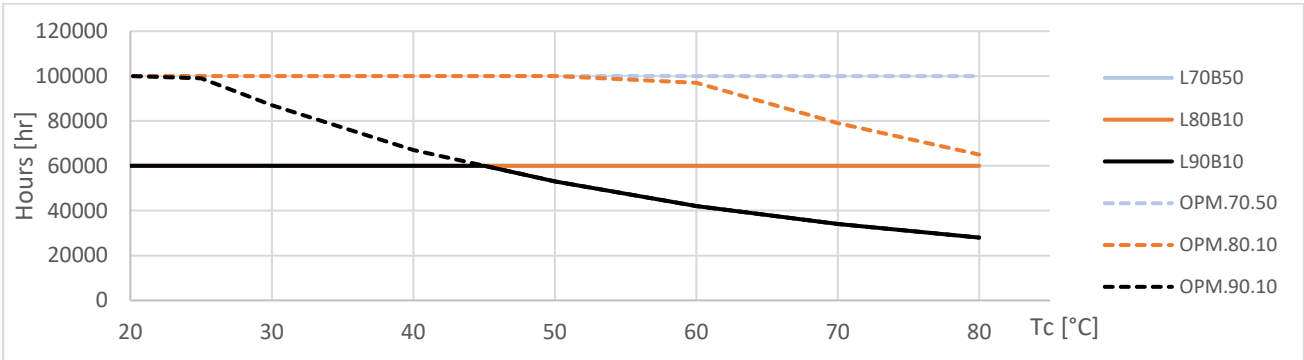


Lifetime chart

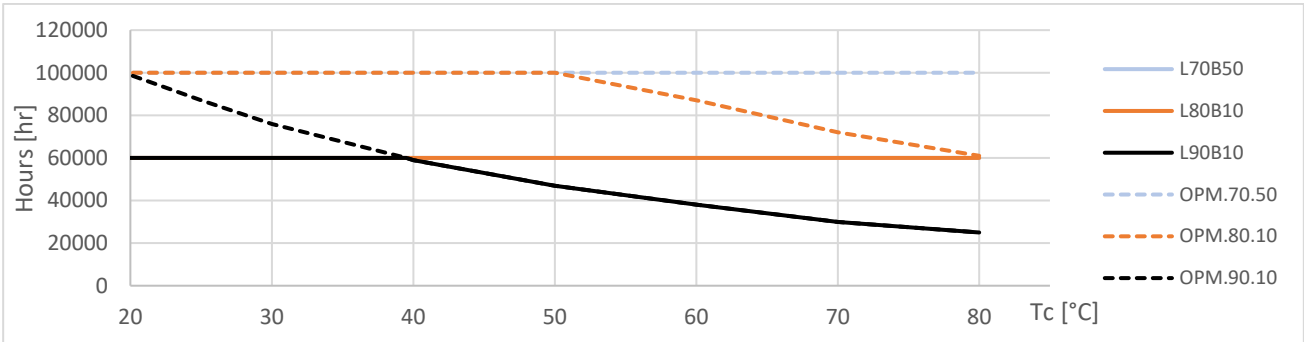
LFP500I-G1-xxx-48-18 L1



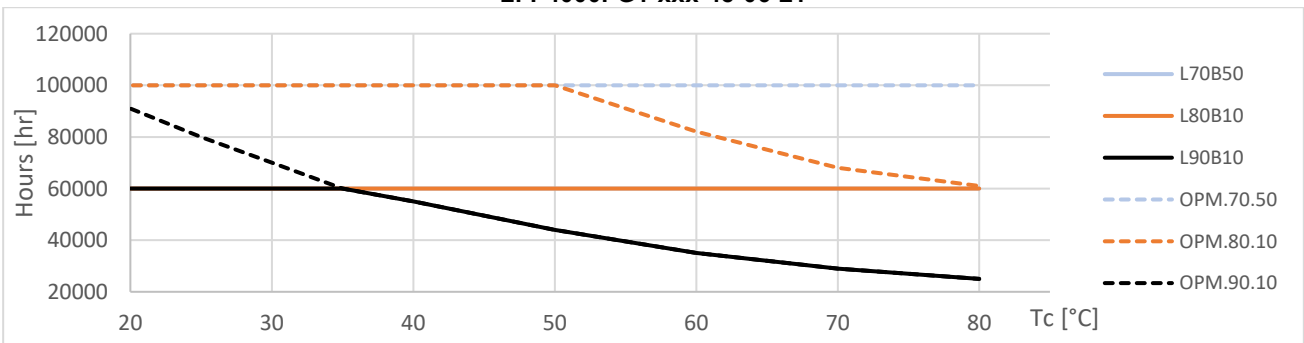
LFP1500I-G1-xxx-48-12 L1



LFP3000I-G1-xxx-48-06 L1



LFP4000I-G1-xxx-48-06 L1








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-G1-824-48-18 L1	6937186118455	1x Led strip with single pre-soldered wire
LFP500I-G1-827-48-18 L1	6937186118479	1x Led strip with single pre-soldered wire
LFP500I-G1-830-48-18 L1	6937186118493	1x Led strip with single pre-soldered wire
LFP500I-G1-840-48-18 L1	6937186118516	1x Led strip with single pre-soldered wire
LFP1500I-G1-824-48-12 L1	6937186118615	1x Led strip with single pre-soldered wire
LFP1500I-G1-827-48-12 L1	6937186118639	1x Led strip with single pre-soldered wire
LFP1500I-G1-830-48-12 L1	6937186118653	1x Led strip with single pre-soldered wire
LFP1500I-G1-840-48-12 L1	6937186118677	1x Led strip with single pre-soldered wire
LFP3000I-G1-824-48-06 L1	6937186118776	1x Led strip with single pre-soldered wire
LFP3000I-G1-827-48-06 L1	6937186118790	1x Led strip with single pre-soldered wire
LFP3000I-G1-830-48-06 L1	6937186118813	1x Led strip with single pre-soldered wire
LFP3000I-G1-840-48-06 L1	6937186118837	1x Led strip with single pre-soldered wire
LFP4000I-G1-824-48-06 L1	6937186118936	1x Led strip with single pre-soldered wire
LFP4000I-G1-827-48-06 L1	6937186118950	1x Led strip with single pre-soldered wire
LFP4000I-G1-830-48-06 L1	6937186118974	1x Led strip with single pre-soldered wire
LFP4000I-G1-840-48-06 L1	6937186118998	1x Led strip with single pre-soldered wire
LFP500I-G1-924-48-18 L1	6937186118530	1x Led strip with single pre-soldered wire
LFP500I-G1-927-48-18 L1	6937186118554	1x Led strip with single pre-soldered wire
LFP500I-G1-930-48-18 L1	6937186118578	1x Led strip with single pre-soldered wire
LFP500I-G1-940-48-18 L1	6937186118592	1x Led strip with single pre-soldered wire
LFP1500I-G1-924-48-12 L1	6937186118691	1x Led strip with single pre-soldered wire
LFP1500I-G1-927-48-12 L1	6937186118714	1x Led strip with single pre-soldered wire
LFP1500I-G1-930-48-12 L1	6937186118738	1x Led strip with single pre-soldered wire
LFP1500I-G1-940-48-12 L1	6937186118752	1x Led strip with single pre-soldered wire
LFP3000I-G1-924-48-06 L1	6937186118851	1x Led strip with single pre-soldered wire
LFP3000I-G1-927-48-06 L1	6937186118875	1x Led strip with single pre-soldered wire
LFP3000I-G1-930-48-06 L1	6937186118899	1x Led strip with single pre-soldered wire
LFP3000I-G1-940-48-06 L1	6937186118912	1x Led strip with single pre-soldered wire
LFP4000I-G1-924-48-06 L1	6937186119018	1x Led strip with single pre-soldered wire
LFP4000I-G1-927-48-06 L1	6937186119032	1x Led strip with single pre-soldered wire
LFP4000I-G1-930-48-06 L1	6937186119056	1x Led strip with single pre-soldered wire
LFP4000I-G1-940-48-06 L1	6937186119070	1x Led strip with single 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 LFPxxxxI 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.

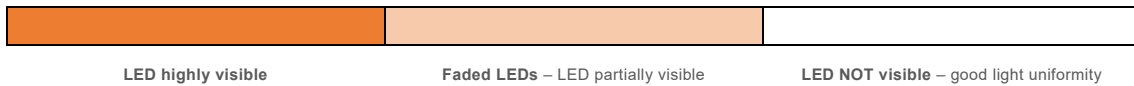
Note 2: All LINEARlight Flex LED strips are fully compatible with INVENTRONICS LED drivers and dimmers.

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_{cmax} ;
- **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:



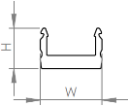
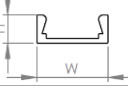
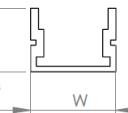
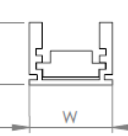
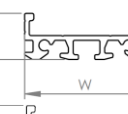
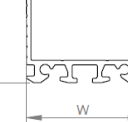
- **OPTICAL PERFORMANCES - OPTICAL EFFICIENCY:** it represents, in percentage, the amount of light lost due to the system used. If the percentage is not available, it means that the cover does not exist or cannot be used.

Eg: LFP1500I-G1-927-48-12 L1+ LTS-SLIMTRACK-2000 + cover transparent

1160lm/m x (-20%) = 928lm/m

928 lm/m is the lumen output outside the system

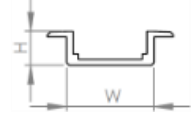
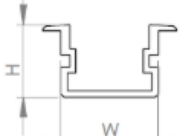
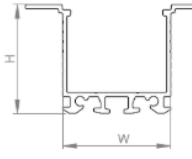
SURFACE INSTALLATION

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

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

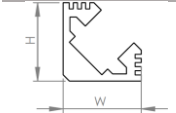
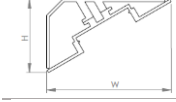
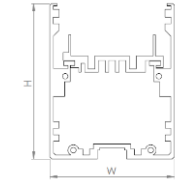
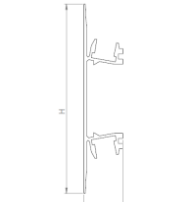
NB2: LFPxxxxI-G1 can be installed in FX-QMS-G1-TU16H12LS-300 but only without the internal aluminum bar otherwise it is not possible the lens installation.

RECESSED INSTALLATION

Track Type	Dimension WxH	Product description	Max Tamb [°C]			OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)				
			LF500I LF1500I	LF3000I	LF4000I	Flat Cover	Trasparent	Flat Cover	Frosted or Opal	Round Cover
	15x6 mm	FX-QMS-G2-TU15H6W3-300 EAN:6937186126702	55 °C (NB1)	45 °C (NB1)	35 °C (NB1)	--	--	--	--	--
	16x12 mm	FX-QMS-G1-TU16H12W3-300 EAN:6937186146229	55 °C	40 °C	30 °C	-24%	-45%	--	--	--
	26x25 mm	FX-QMW-G2-TU26H25W10-200 EAN: 6937186126801	55 °C	50 °C	40 °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)				
			LF500I LF1500I	LF3000I	LF4000I	Flat Cover	Trasparent	Flat Cover	Frosted or Opal	Round Cover
	19x19 mm	FX-QMS-G2-T45D19H19-300 EAN:6937186131706	55 °C	45 °C	40 °C	-38%	-57%	--	--	--
	46 x 27 mm	FX-QMW-G1-TK30D46H27-300 EAN:6937186148407	55 °C	55 °C	45 °C	--	-39%	-43%	--	--
	56x70 mm	FX-QMP-G1-TU56H70-xx-0yy EAN: 6977078997805 6977078997836 6977078997867 6977078997898 6977078997928 6977078997959	50°C	50°C	50°C	--	-32%	-26%	--	--
	22x110 mm	FX-QMR-G1-TT25H110-xx-0yy EAN: 6977078998017 6977078998048 6977078998079 6977078998109 6977078998130 6977078998161	50°C	50°C	50°C	--	-70%	--	--	--

LED Driver combination

All 48Vdc 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 LFP1500I-G1-930-48-12 L1– 117.6 W

Product name	Product description	EAN 10
EBV-150S048SV	On/off	EBV-150S048SV
EBV-150S048SV + IT DOP 480/12-48V/4C NFC L C RGBW (IP20)	DALI-1-10V	EBV-150S048SV + 6937186134127

Customizations

LINEARlight FLEX INFINITE 48V 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 or visit our website 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.