

LINEARlight FLEX INFINITE 48V – IP00

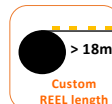
High efficiency flexible LED strip

LF500I/1500I/3000I/4000I-G1-xxx-48 L1

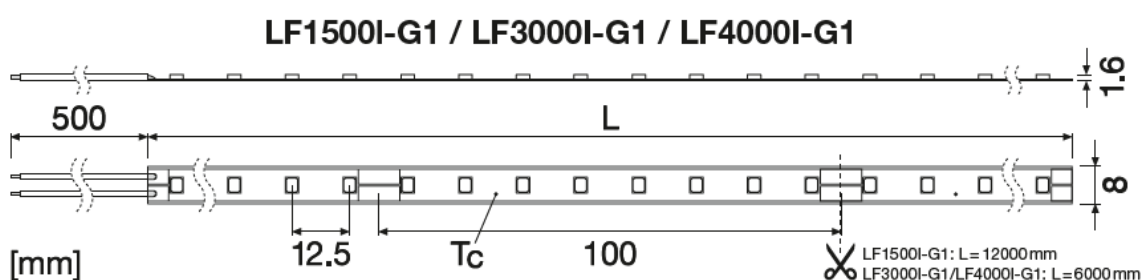
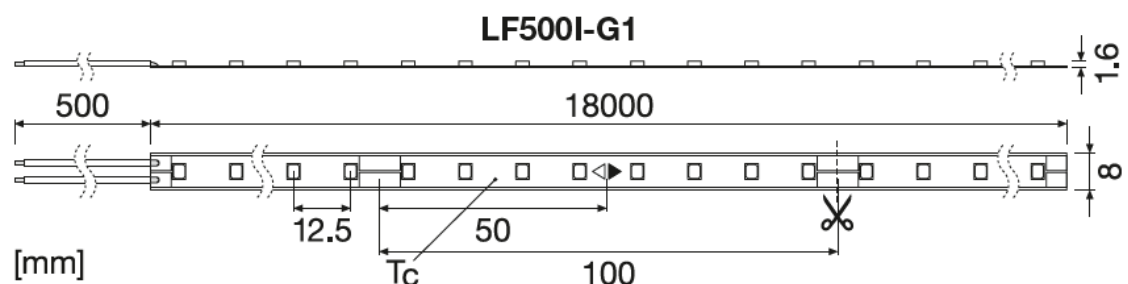


Features & Benefits

- 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
- Simplified connection with optional matching CONNECTsystem
- Quick installation with optional SLIM TRACK System
- Made in Italy



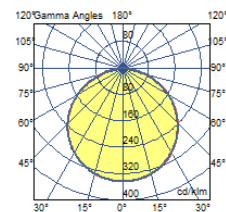
Technical drawings



Lowest Bending Radius = 30 mm

Product length = Max. operable length

Nominal Voltage	48.0 V - (45.6 V...50.4 V)
Reverse voltage protection up to	50 V
Temperature range in operation @ Tc point	-30 °C...+85 °C
Storage Temperature	-40 °C...+85 °C
Ambient Temperature with profile *	-30 °C...+55 °C



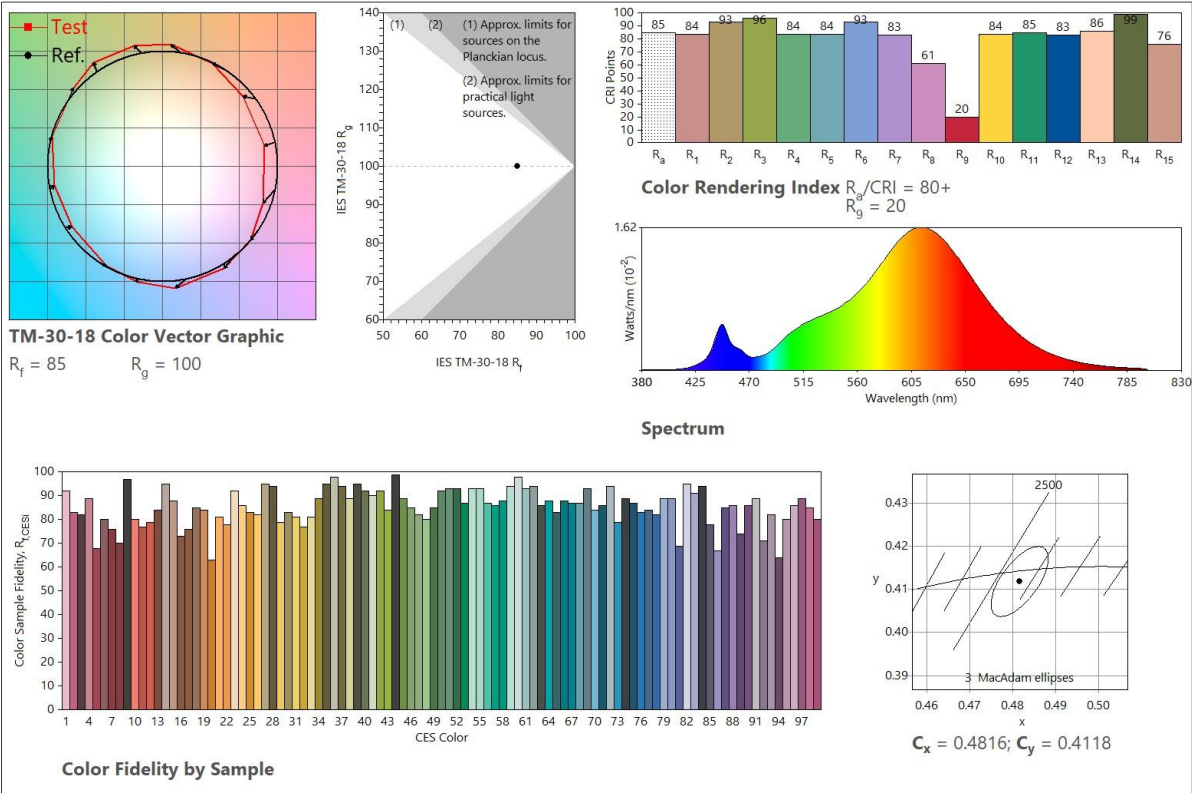
Technical data

	CRI 80+	Nominal CCT See color output data	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temperature °C	Length m
500lm/m	LF500I-G1-824-48-18 L1	2400 K	560	4	140	32	18
	LF500I-G1-827-48-18 L1	2700 K	585	4	146	32	18
	LF500I-G1-830-48-18 L1	3000 K	630	4	158	32	18
	LF500I-G1-840-48-18 L1	4000 K	650	4	163	32	18
1500lm/m	LF1500I-G1-824-48-12 L1	2400 K	1360	9,6	142	38	12
	LF1500I-G1-827-48-12 L1	2700 K	1410	9,6	147	38	12
	LF1500I-G1-830-48-12 L1	3000 K	1520	9,6	158	38	12
	LF1500I-G1-840-48-12 L1	4000 K	1580	9,6	165	38	12
3000lm/m	LF3000I-G1-824-48-06 L1	2400 K	2680	19.2	140	48	6
	LF3000I-G1-827-48-06 L1	2700 K	2780	19.2	145	48	6
	LF3000I-G1-830-48-06 L1	3000 K	3000	19.2	156	48	6
	LF3000I-G1-840-48-06 L1	4000 K	3100	19.2	161	48	6
4000lm/m	LF4000I-G1-824-48-06 L1	2400 K	3560	25,8	138	54	6
	LF4000I-G1-827-48-06 L1	2700 K	3710	25,8	144	54	6
	LF4000I-G1-830-48-06 L1	3000 K	4000	25,8	155	54	6
	LF4000I-G1-840-48-06 L1	4000 K	4100	25,8	159	54	6

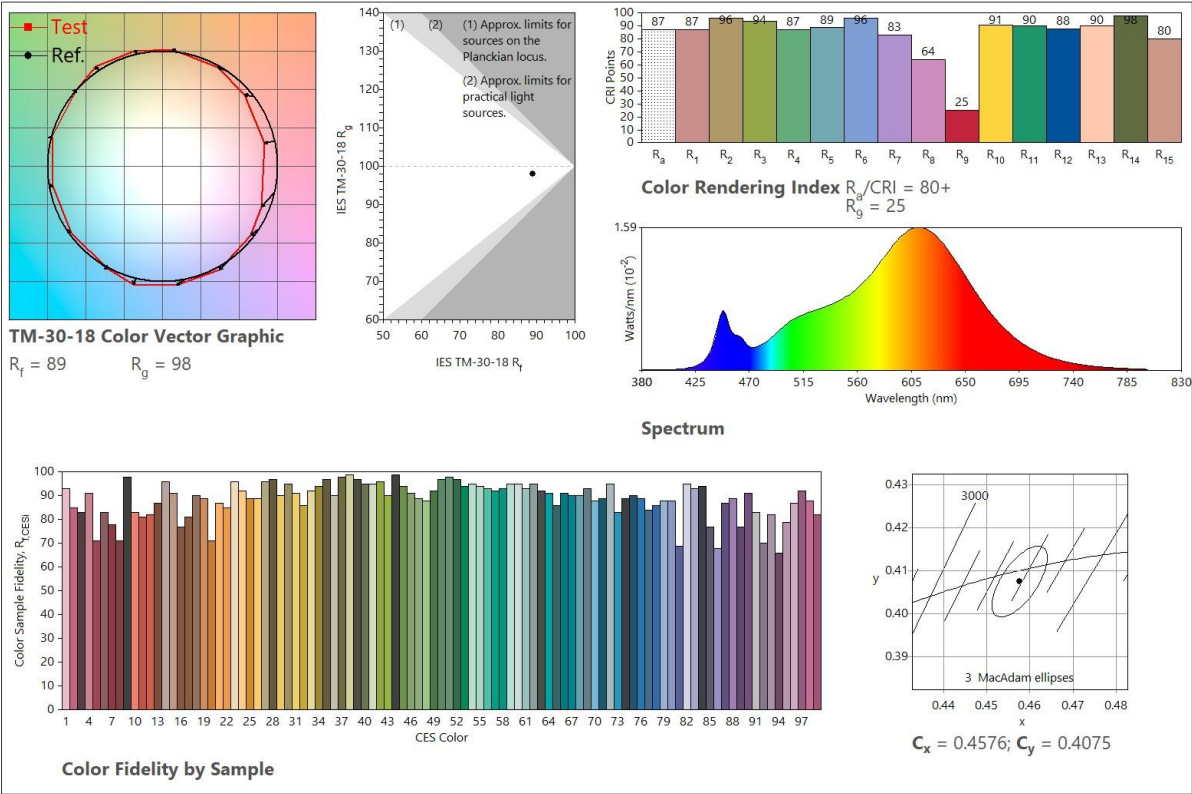
	CRI 90+	Nominal CCT See color output data	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temperature °C	Length m
500lm/m	LF500I-G1-924-48-18 L1	2400 K	465	4	116	30	18
	LF500I-G1-927-48-18 L1	2700 K	480	4	123	30	18
	LF500I-G1-930-48-18 L1	3000 K	515	4	130	30	18
	LF500I-G1-940-48-18 L1	4000 K	540	4	135	30	18
1500lm/m	LF1500I-G1-924-48-12 L1	2400 K	1130	9,6	118	36	12
	LF1500I-G1-927-48-12 L1	2700 K	1170	9,6	122	36	12
	LF1500I-G1-930-48-12 L1	3000 K	1250	9,6	130	36	12
	LF1500I-G1-940-48-12 L1	4000 K	1310	9,6	136	36	12
3000lm/m	LF3000I-G1-924-48-06 L1	2400 K	2230	19.2	116	45	6
	LF3000I-G1-927-48-06 L1	2700 K	2310	19.2	120	45	6
	LF3000I-G1-930-48-06 L1	3000 K	2470	19.2	129	45	6
	LF3000I-G1-940-48-06 L1	4000 K	2590	19.2	135	45	6
4000lm/m	LF4000I-G1-924-48-06 L1	2400 K	2950	25,8	114	52	6
	LF4000I-G1-927-48-06 L1	2700 K	3020	25,8	117	52	6
	LF4000I-G1-930-48-06 L1	3000 K	3230	25,8	125	52	6
	LF4000I-G1-940-48-06 L1	4000 K	3450	25,8	134	52	6

Color output data CRI 80+

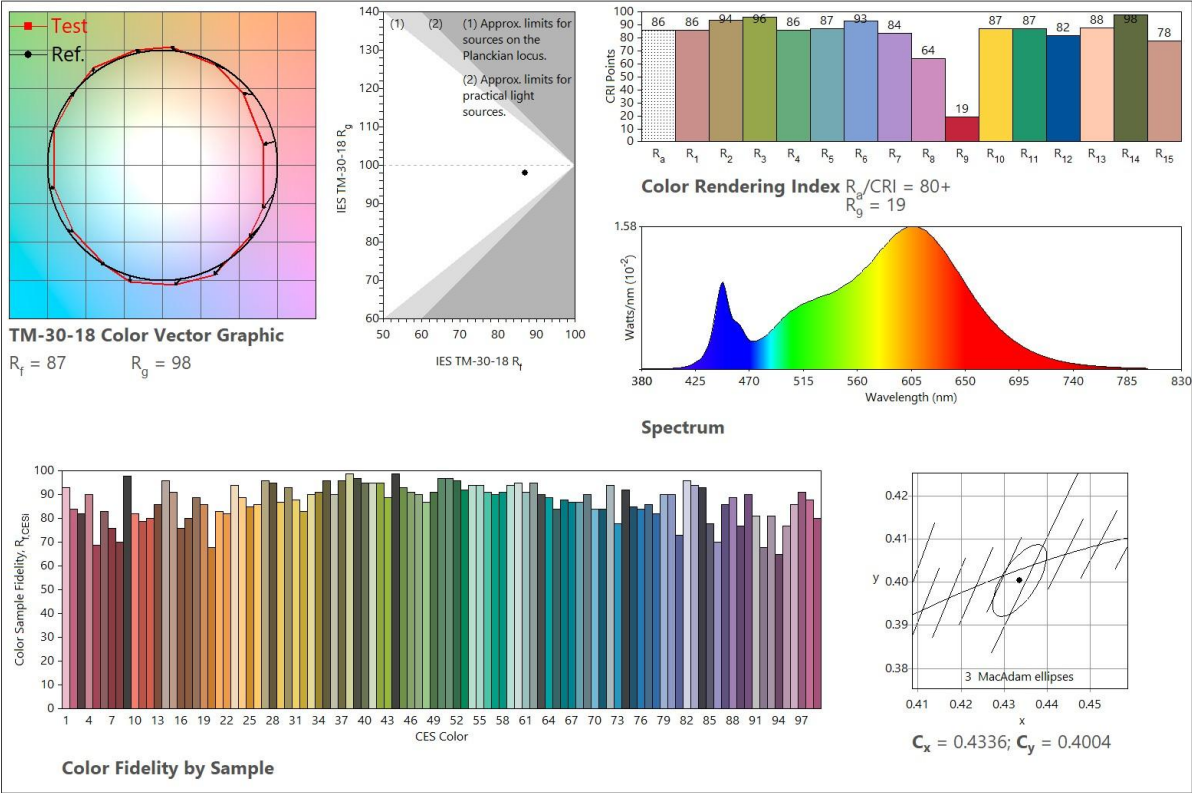
LFxx00I-G1-824-48-yy L1



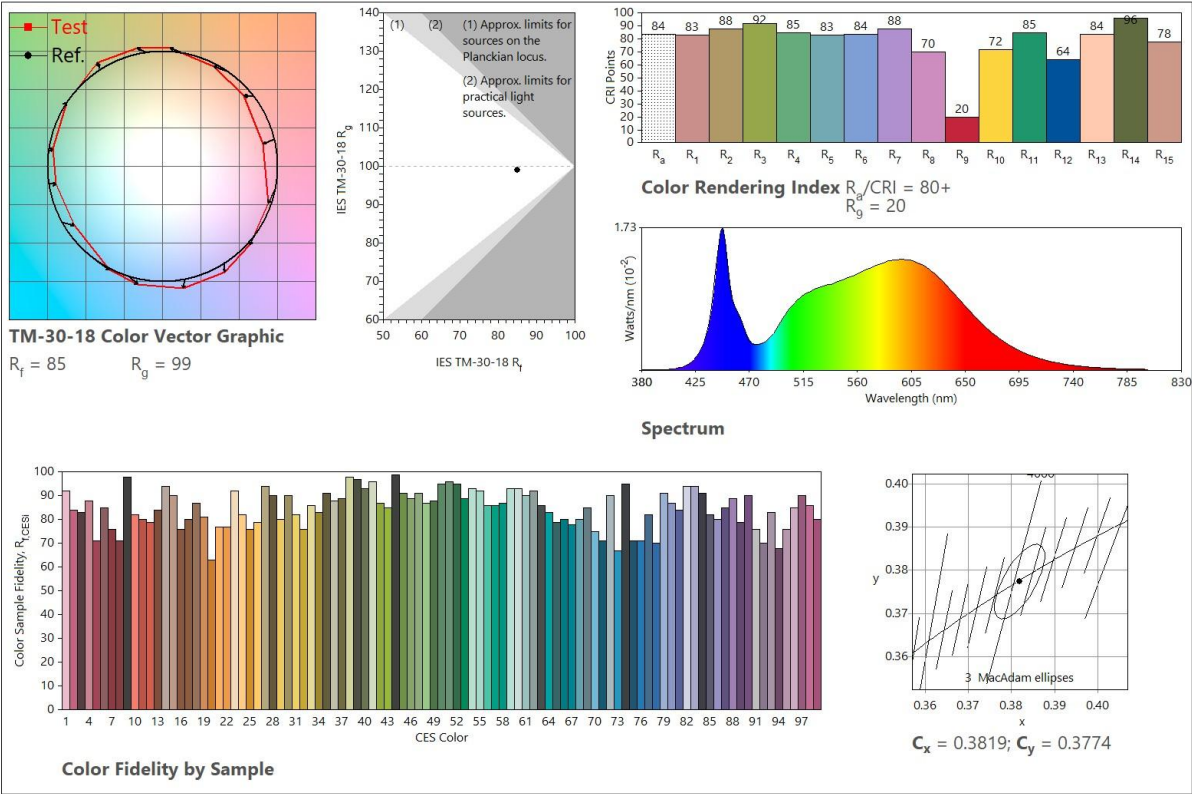
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LFxx00I-G1-830-48-yy L1

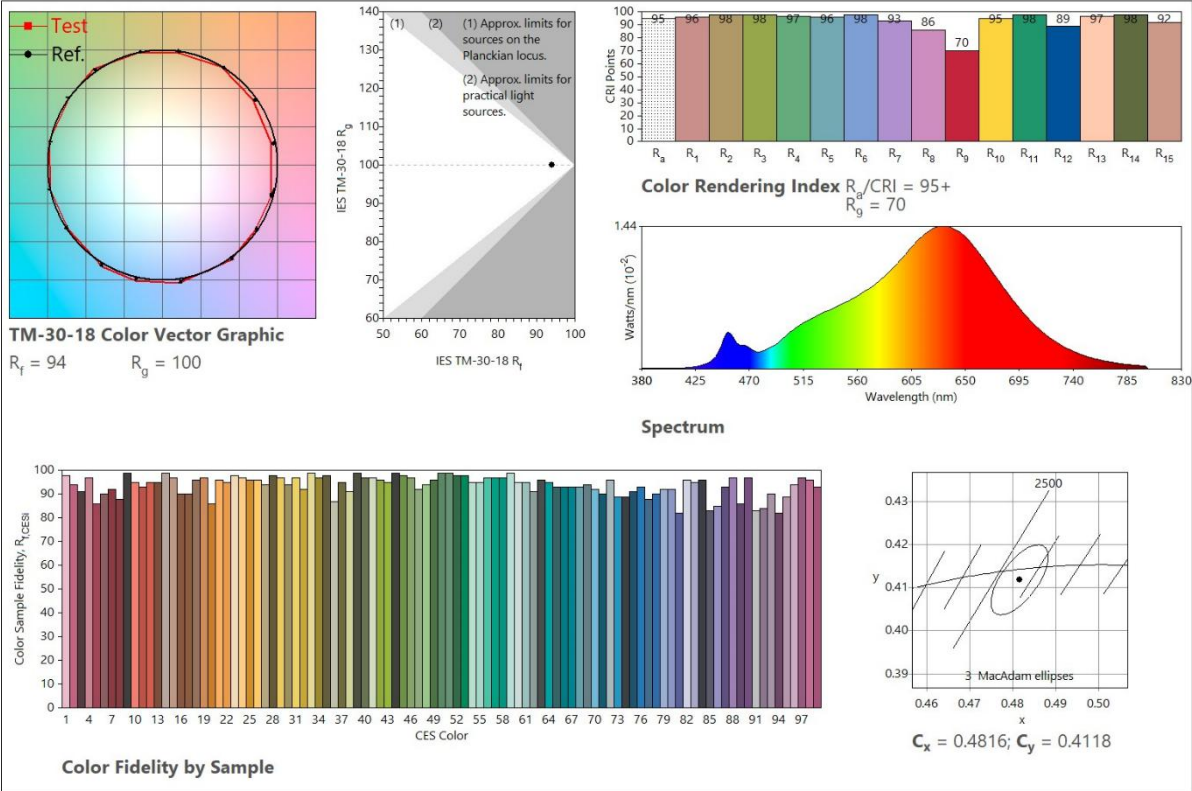


LFxx00I-G1-840-48-yy L1

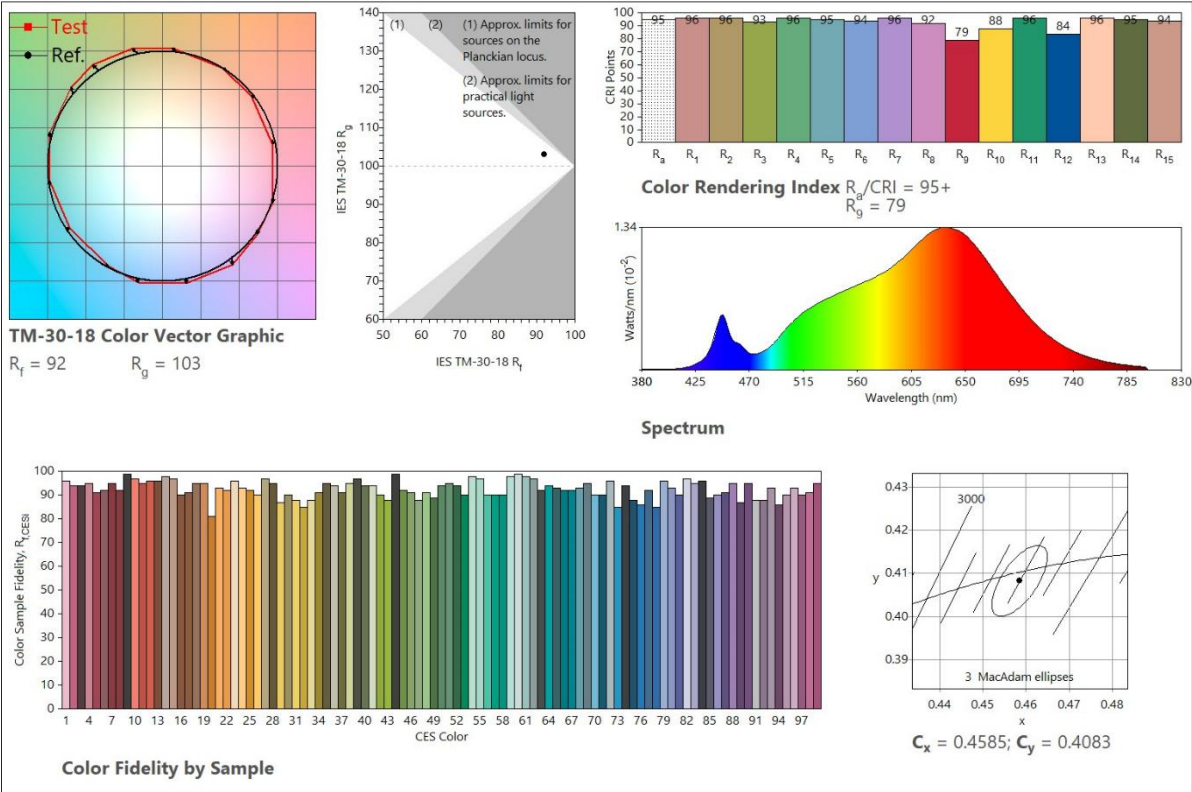


Color output data CRI 90+

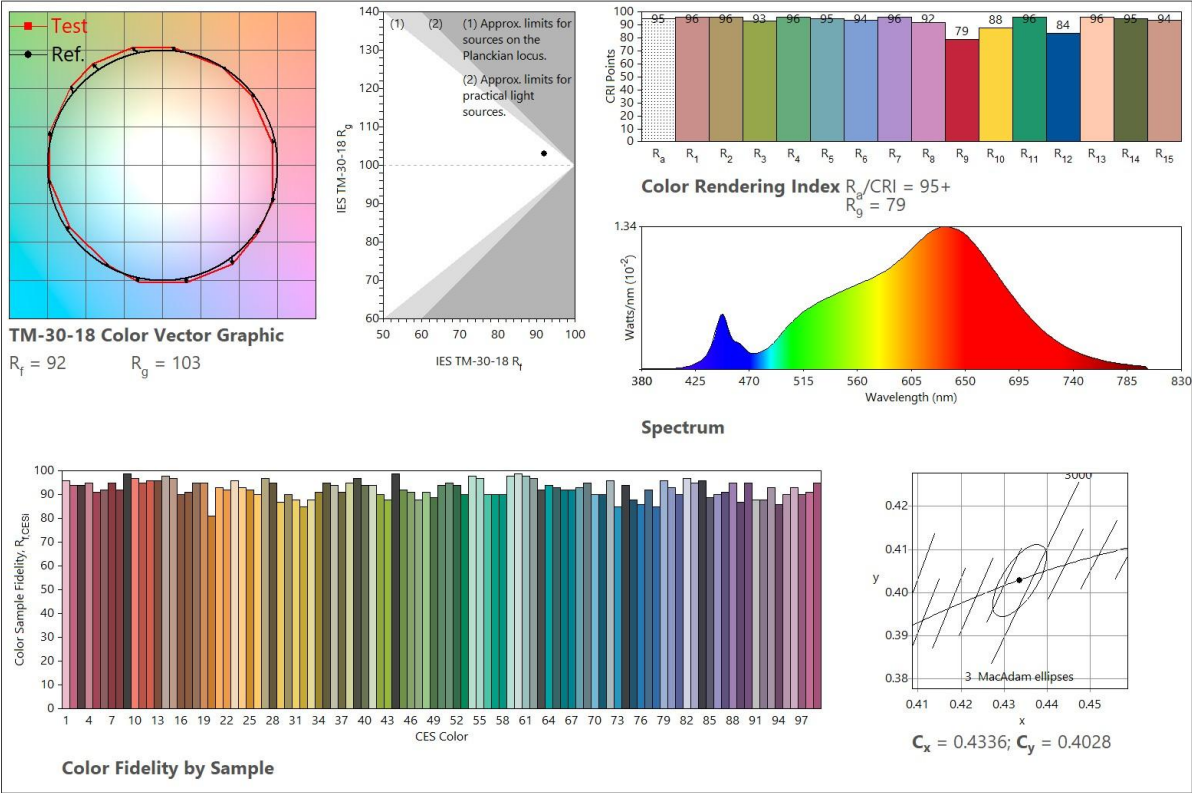
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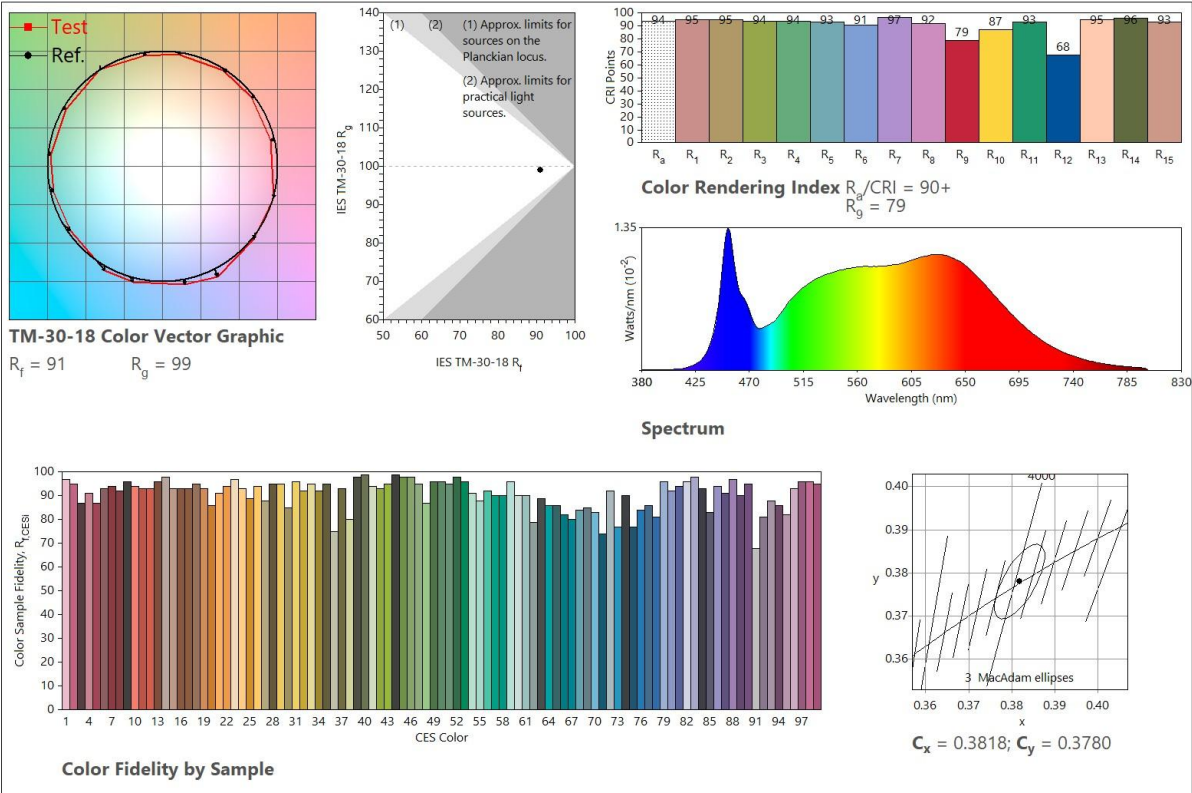
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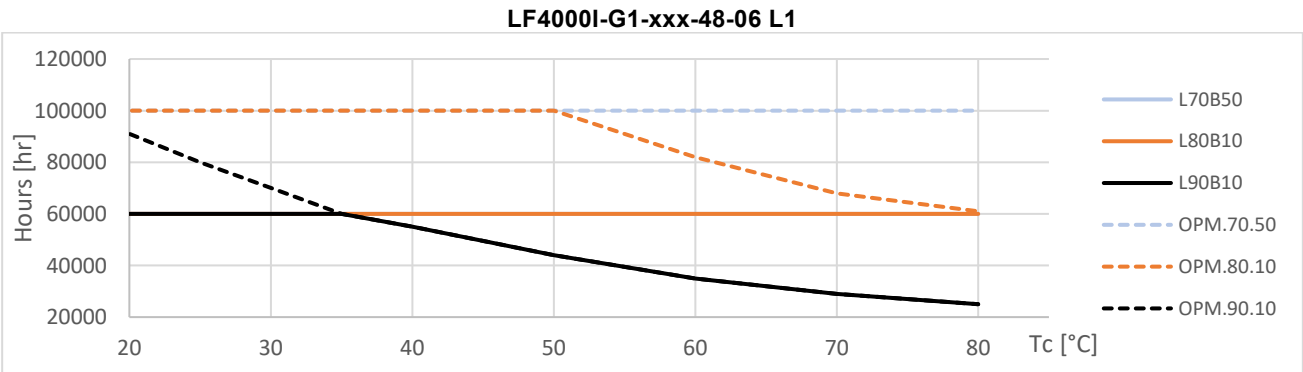
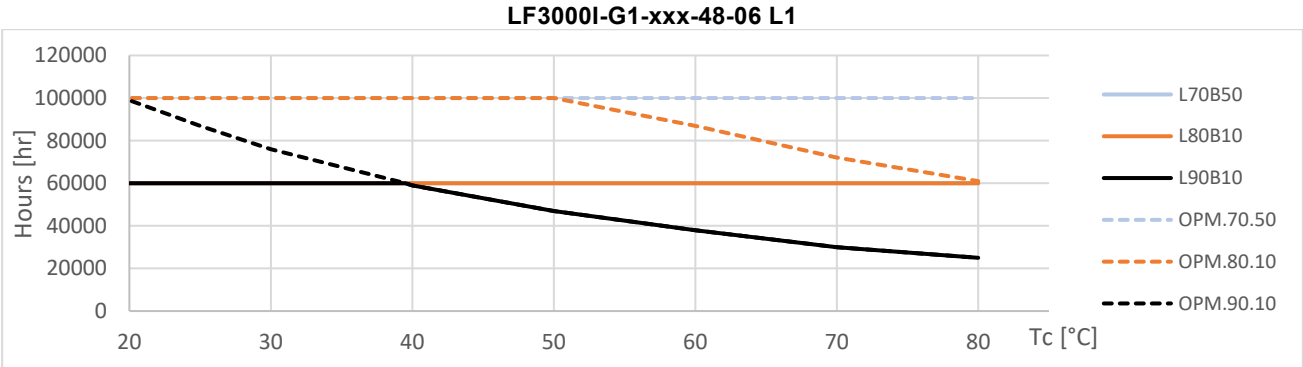
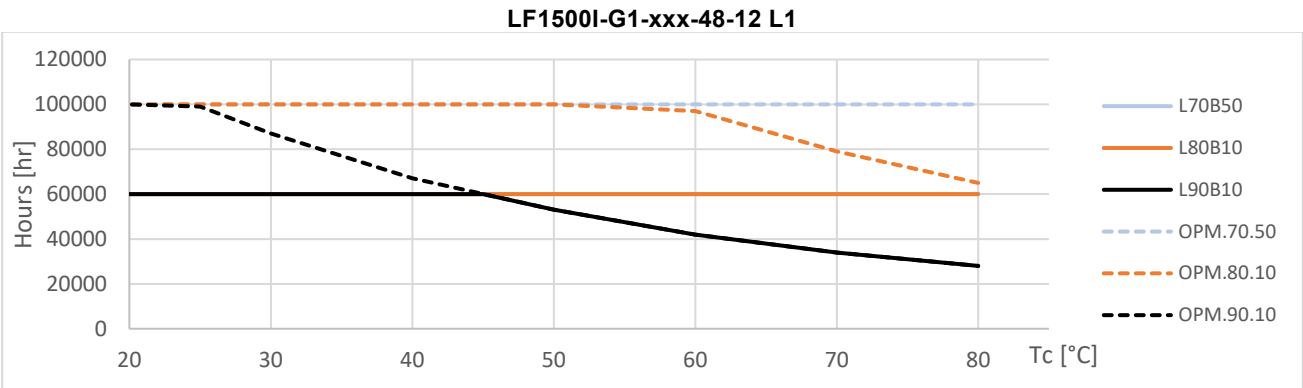
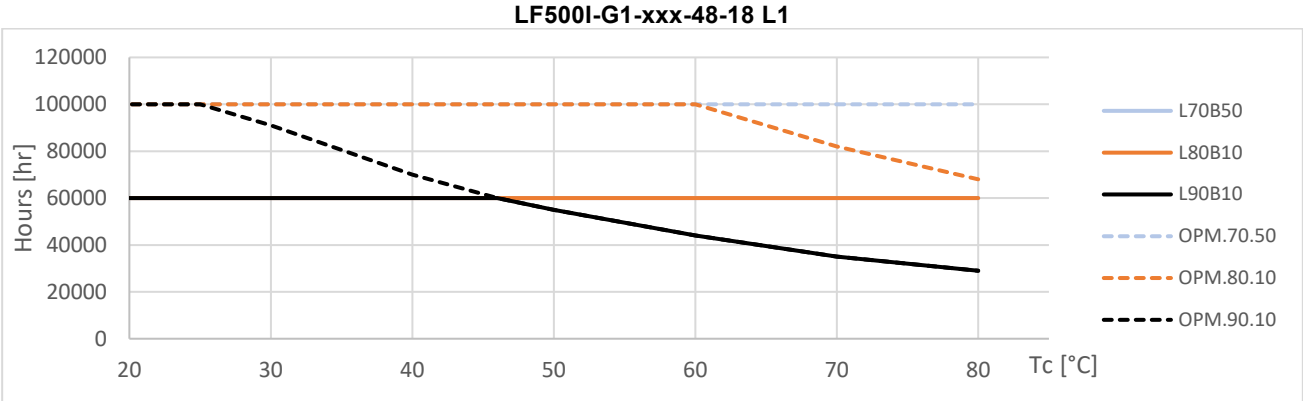
LFxx00I-G1-930-48-yy L1



LFxx00I-G1-940-48-yy L1



Lifetime chart



Packaging content

Product type	Product code	EAN10 Package content
LF500I-G1-824-48-18 L1	6937186117816	1x Led strip with single pre-soldered wire
LF500I-G1-827-48-18 L1	6937186117830	1x Led strip with single pre-soldered wire
LF500I-G1-830-48-18 L1	6937186117854	1x Led strip with single pre-soldered wire
LF500I-G1-840-48-18 L1	6937186117878	1x Led strip with single pre-soldered wire
LF1500I-G1-824-48-12 L1	6937186117977	1x Led strip with single pre-soldered wire
LF1500I-G1-827-48-12 L1	6937186117991	1x Led strip with single pre-soldered wire
LF1500I-G1-830-48-12 L1	6937186118011	1x Led strip with single pre-soldered wire
LF1500I-G1-840-48-12 L1	6937186118035	1x Led strip with single pre-soldered wire
LF3000I-G1-824-48-06 L1	6937186118134	1x Led strip with single pre-soldered wire
LF3000I-G1-827-48-06 L1	6937186118158	1x Led strip with single pre-soldered wire
LF3000I-G1-830-48-06 L1	6937186118172	1x Led strip with single pre-soldered wire
LF3000I-G1-840-48-06 L1	6937186118196	1x Led strip with single pre-soldered wire
LF4000I-G1-824-48-06 L1	6937186118295	1x Led strip with single pre-soldered wire
LF4000I-G1-827-48-06 L1	6937186118318	1x Led strip with single pre-soldered wire
LF4000I-G1-830-48-06 L1	6937186118332	1x Led strip with single pre-soldered wire
LF4000I-G1-840-48-06 L1	6937186118356	1x Led strip with single pre-soldered wire
LF500I-G1-924-48-18 L1	6937186117892	1x Led strip with single pre-soldered wire
LF500I-G1-927-48-18 L1	6937186117915	1x Led strip with single pre-soldered wire
LF500I-G1-930-48-18 L1	6937186117939	1x Led strip with single pre-soldered wire
LF500I-G1-940-48-18 L1	6937186117953	1x Led strip with single pre-soldered wire
LF1500I-G1-924-48-12 L1	6937186118059	1x Led strip with single pre-soldered wire
LF1500I-G1-927-48-12 L1	6937186118073	1x Led strip with single pre-soldered wire
LF1500I-G1-930-48-12 L1	6937186118097	1x Led strip with single pre-soldered wire
LF1500I-G1-940-48-12 L1	6937186118110	1x Led strip with single pre-soldered wire
LF3000I-G1-924-48-06 L1	6937186118219	1x Led strip with single pre-soldered wire
LF3000I-G1-927-48-06 L1	6937186118233	1x Led strip with single pre-soldered wire
LF3000I-G1-930-48-06 L1	6937186118257	1x Led strip with single pre-soldered wire
LF3000I-G1-940-48-06 L1	6937186118271	1x Led strip with single pre-soldered wire
LF4000I-G1-924-48-06 L1	6937186118370	1x Led strip with single pre-soldered wire
LF4000I-G1-927-48-06 L1	6937186118394	1x Led strip with single pre-soldered wire
LF4000I-G1-930-48-06 L1	6937186118417	1x Led strip with single pre-soldered wire
LF4000I-G1-940-48-06 L1	6937186118431	1x Led strip with single pre-soldered wire

Optional Accessories

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

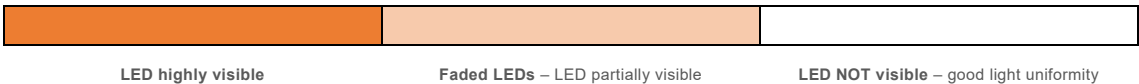
Note: All LINEARlight Flex LED strips are fully compatible with INVENTRONICS LED drivers and dimmers.

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 Tcmax;
- **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:



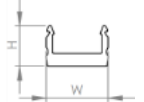
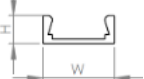
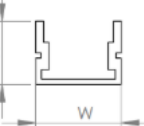
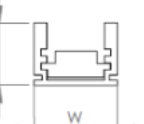
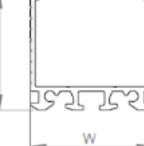
- **OPTICAL PERFORMANCES - OPTICAL EFFICIENCY:** it represents, in percentage, the amount of light lost due to the system used. If the percentage is not available, it means that the cover does not exist or cannot be used.

Eg: LF1500I-G1-824-48-12 L1+ LTS-SLIMTRACK-2000 + Flat Cover transparent

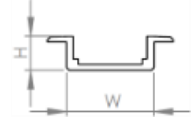
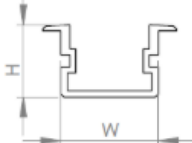
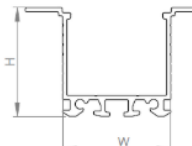
$1360\text{lm/m} \times (-20\%) = 1088\text{lm/m}$

1088lm/m is the lumen output outside the system.

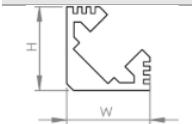
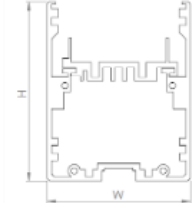
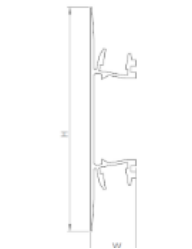
SURFACE INSTALLATION

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	LTS-SLIMTRACK-2000 EAN:6937186141200	55 °C	50 °C	45 °C	-20%	-35%	-40%
	15x6 mm	FX-QMS-G2-TU15H6-300 EAN:6937186130860	55 °C	45 °C	40 °C	-15%	-40%	--
	16x12 mm	FX-QMS-G1-TU16H12-300 EAN:6937186126740	55 °C	50 °C	45 °C	-24%	-45%	--
	16x12 mm	FX-QMS-G1-TU16H12LS-300 EAN:6937186148421	55 °C	50 °C	45 °C	--	--	-30%
	26x10 mm	FX-QMW-G2-TU26H10-200 EAN: 6937186126849	55 °C	50 °C	45 °C	--	--	-30%
	26x25 mm	FX-QMW-G2-TU26H25-200 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	FX-QMS-G2-TU15H6W3-300 EAN:6937186126702	50 °C	40 °C	30 °C	-15%	-40%	--
	16x12 mm	FX-QMS-G1-TU16H12W3-300 EAN:6937186146229	50 °C	45 °C	35 °C	-24%	-45%	--
	26x25 mm	FX-QMW-G2-TU26H25W10-200 EAN: 6937186126801	55 °C	55 °C	45 °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	FX-QMS-G2-T45D19H19-300 EAN:6937186131706	55 °C	50 °C	50 °C	-38%	-57%	--
	46 x 27 mm	FX-QMW-G1-TK30D46H27-300 EAN:6937186148407	55 °C	50 °C	50 °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 LF1500I-G1-930-48-12 L1– **115.2 W**

Product name	Product description	EAN 10
EBV-150S048SV	On/off	EBV-150S048SV
EBV-150S048SV + OT WI DIM 5CH CA	Bluetooth – Casambi	EBV-150S048SV + 6937186115232
OTi DALI 160/220-240/48 1CH	DALI	6977770432499

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.