inventronics

LINEARlight® FLEX Protect Uniformity IP66/68

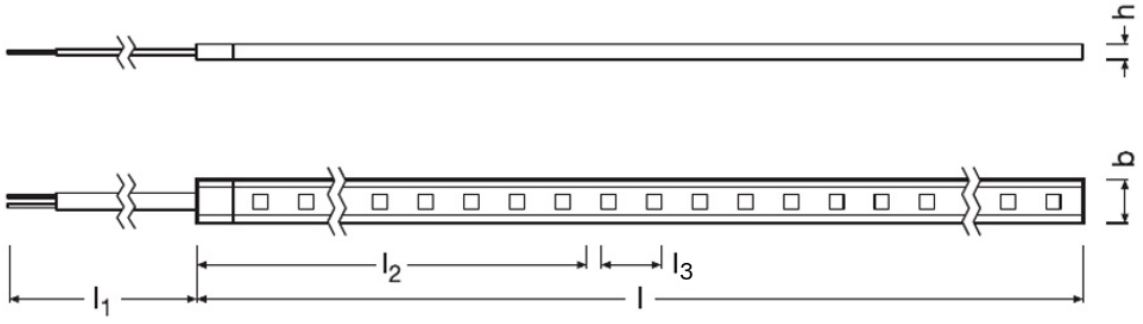
Weatherproof LED strip for high quality homogeneous lighting.

LFP800S-G5 / LFP1200S-G5 / LFP2000S-G5

Features & Benefits

- Three luminous packages: **800 / 1200 / 2000 lm/m** for tailored brightness.
- 140 led/m
- High color fidelity with **CRI 95+, 90+** and **80+** for premium design.
- 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** with 140 LEDs/m for top consistency.
- High-speed protection against accidental miswiring up to 25V.
- Durable **IP66/68** fully sealed and filled with crystalline optical grade silicone; can be **cut and re-sealed each 1,97"**
- Pre-**soldered wires** and optional Connection System for quick setup.
- Proudly **Made in Italy** with advanced engineering and premium materials.

Technical drawings

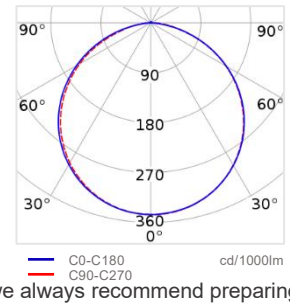


CRI80 / 90	L [mm]	l1 [mm]	l2 [mm]	l3 [mm]	h [mm]	b [mm]
LFP800S	10000	500	50	7.11	4.5	11.1
LFP1200S	10000	500	50	7.11	4.5	11.1
LFP2000S	5000	500	50	7.11	4.5	11.1
CRI95	**L [mm]**	**l1 [mm]**	**l2 [mm]**	**l3 [mm]**	**h [mm]**	**b [mm]**
LFP800S	10000	500	50	7.11	4.5	11.1
LFP1200S	5000	500	50	7.11	4.5	11.1
LFP2000S	5000	500	50	7.11	4.5	11.1

Lowest Bending Radius = 50mm

Max. operable length = product length.

Nominal Voltage	24.0 V - (23 V…25 V)
Reverse voltage protection up to	25 V
Temperature range in operation @ Tc point	-30 °C…+85 °C**
Storage Temperature	-40 °C…+85 °C
Ambient Temperature with profile **	-30 °C...+50 °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 See color output data	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Length m
800lm/m	LFP800S-G5-825-10 L1	2500 K	800	8	109	10
	LFP800S-G5-827-10 L1	2700 K	800	7,2	117	10
	LFP800S-G5-830-10 L1	3000 K	800	6,7	125	10
	LFP800S-G5-840-10 L1	4000 K	800	6,1	131	10
1200lm/m	LFP1200S-G5-825-10 L1	2500 K	1200	11,6	108	10
	LFP1200S-G5-827-10 L1	2700 K	1200	10,6	115	10
	LFP1200S-G5-830-10 L1	3000 K	1200	9,8	124	10
	LFP1200S-G5-840-10 L1	4000 K	1200	9,4	128	10
2000lm/m	LFP2000S-G5-825-05 L1	2500 K	2000	19,6	107	5
	LFP2000S-G5-827-05 L1	2700 K	2000	18,1	113	5
	LFP2000S-G5-830-05 L1	3000 K	2000	17,3	118	5
	LFP2000S-G5-840-05 L1	4000 K	2000	15,2	132	5

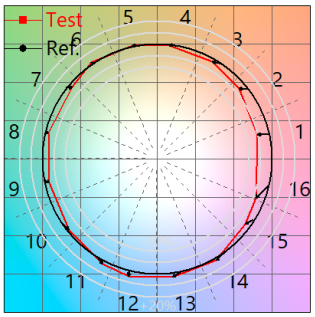
	CRI 90+	Nominal CCT See color output data	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Length m
800lm/m	LFP800S-G5-927-10 L1	2700 K	800	9,2	91	10
	LFP800S-G5-930-10 L1	3000 K	800	8	105	10
	LFP800S-G5-940-10 L1	4000 K	800	7,5	112	10
1200lm/m	LFP1200S-G5-927-10 L1	2700 K	1200	11,6	95	10
	LFP1200S-G5-930-10 L1	3000 K	1200	11,6	103	10
	LFP1200S-G5-940-10 L1	4000 K	1200	10,9	110	10
2000lm/m	LFP2000S-G5-927-05 L1	2700 K	2000	21	90	5
	LFP2000S-G5-930-05 L1	3000 K	2000	19,6	102	5
	LFP2000S-G5-940-05 L1	4000 K	2000	18,5	108	5

	CRI 95+	Nominal CCT See color output data	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Length m
800lm/m	LFP800S-G5-927R-10 L1	2700 K	800	9,5	91	10
	LFP800S-G5-930R-10 L1	3000 K	800	8,3	104	10
	LFP800S-G5-940R-10 L1	4000 K	800	7,3	115	10
1200lm/m	LFP1200S-G5-927R-05 L1	2700 K	1200	14	89	5
	LFP1200S-G5-930R-05 L1	3000 K	1200	12	100	5
	LFP1200S-G5-940R-05 L1	4000 K	1200	10,6	113	5
2000lm/m	LFP2000S-G5-927R-05 L1	2700 K	2000	21	88	5
	LFP2000S-G5-930R-05 L1	3000 K	2000	19,5	103	5
	LFP2000S-G5-940R-05 L1	4000 K	2000	18,1	110	5

NOTE: all declared values are measured keeping the product Tc point at the Performance temperature Tp here below listed:
LFP800S → Tp = 30°C / LFP1200S → Tp = 35°C / LFP2000S → Tp = 40°C

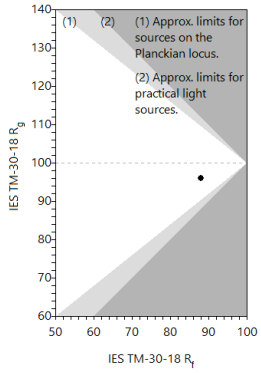
Color output data CRI 80+

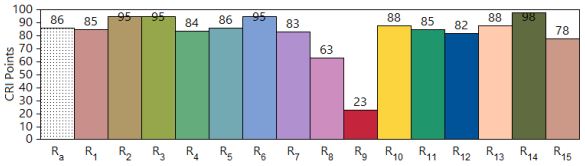
LFPxx00S-G5-825-yy C



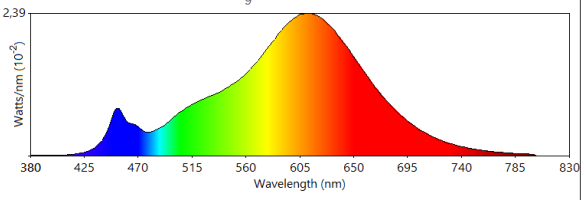
TM-30-18 Color Vector Graphic

R_f = 88 R_g = 96

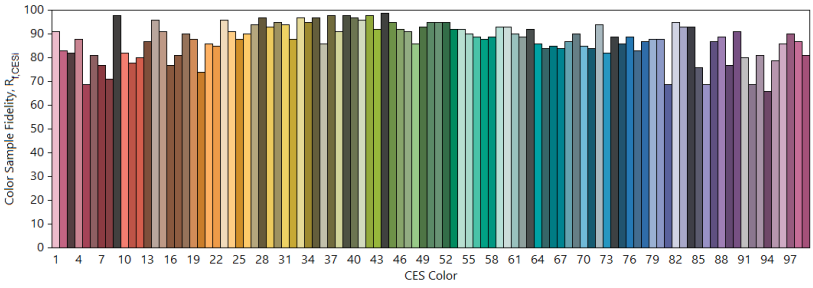




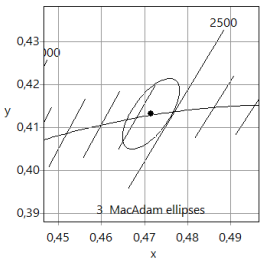
Color Rendering Index R_a/CRI = 80+
R_9 = 23



Spectrum

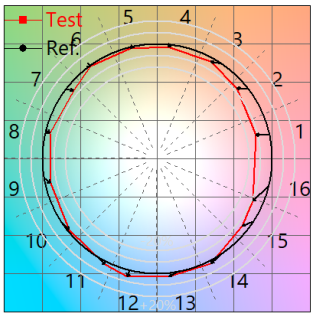


Color Fidelity by Sample



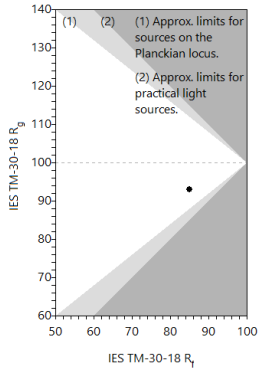
C_x = 0.4715; C_y = 0.4132

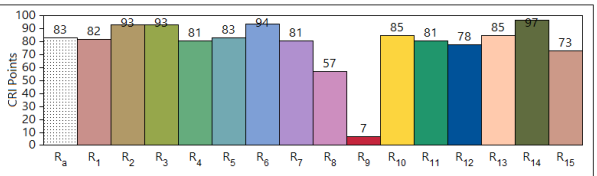
LFPxx00S-G5-827-yy C



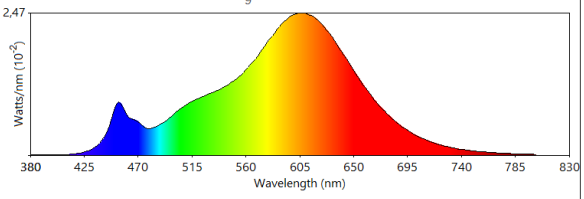
TM-30-18 Color Vector Graphic

R_f = 85 R_g = 93

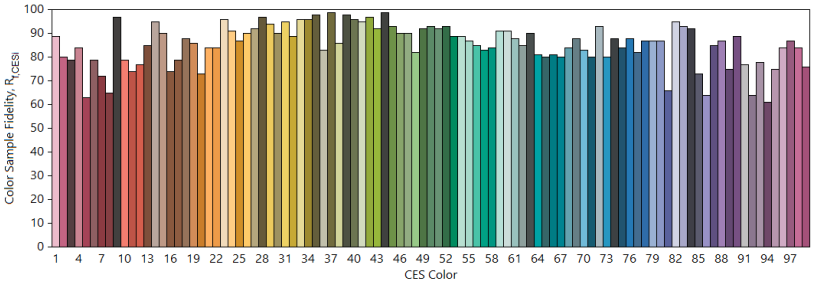




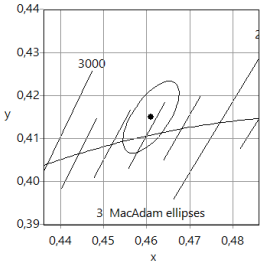
Color Rendering Index R_a/CRI = 80+
R_9 = 7



Spectrum

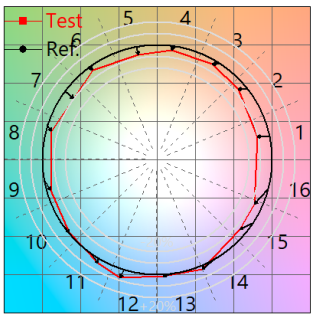


Color Fidelity by Sample



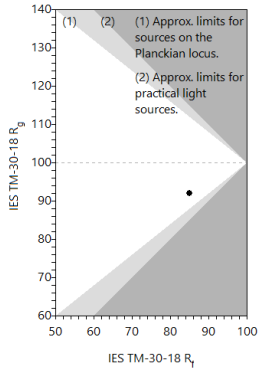
C_x = 0.4610; C_y = 0.4150

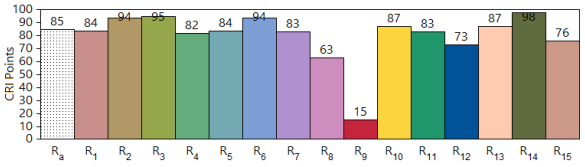
LFPxx00S-G5-830-yy C



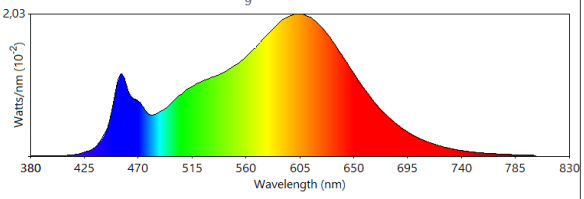
TM-30-18 Color Vector Graphic

R_f = 85 R_g = 92

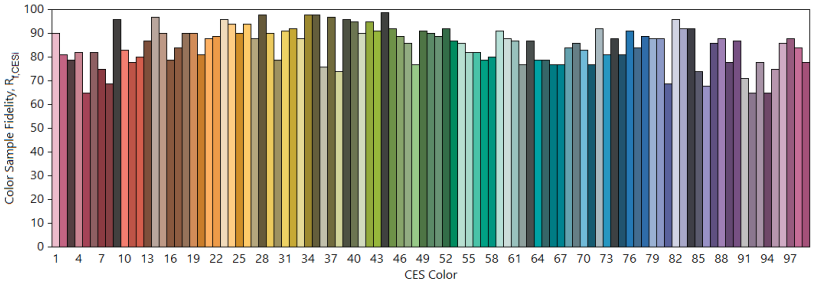




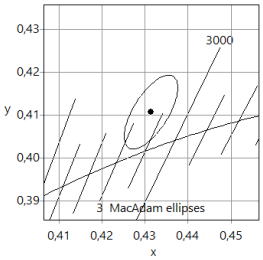
Color Rendering Index R_a/CRI = 80+
R_9 = 15



Spectrum

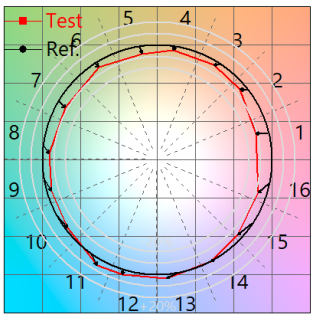


Color Fidelity by Sample



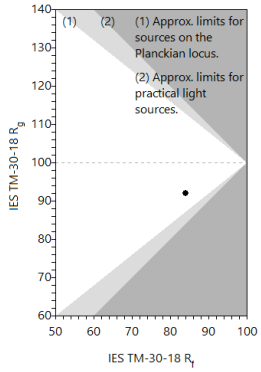
C_x = 0.4314; C_y = 0.4107

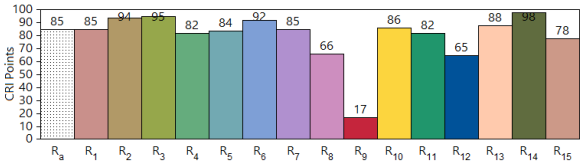
LFPxx00S-G5-840-yy C



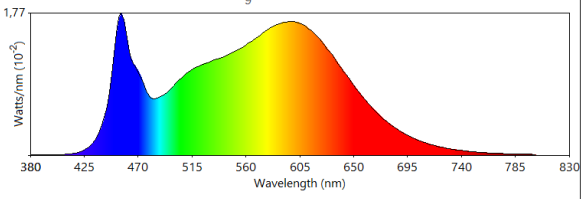
TM-30-18 Color Vector Graphic

R_f = 84 R_g = 92

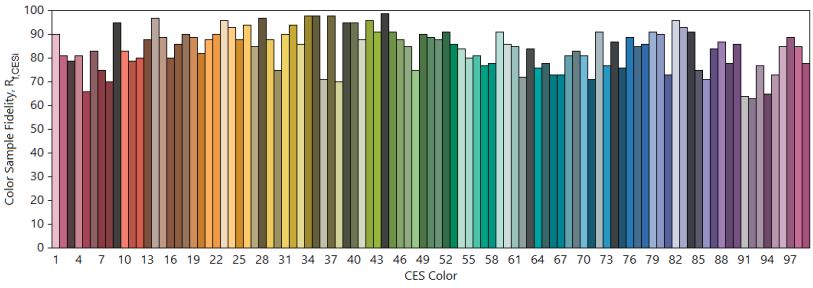




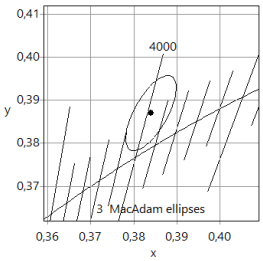
Color Rendering Index R_a/CRI = 80+
R_9 = 17



Spectrum



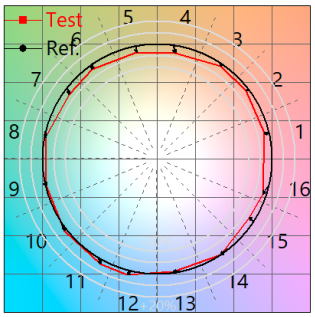
Color Fidelity by Sample



C_x = 0.3840; C_y = 0.3870

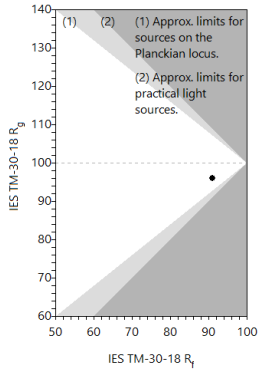
Color output data CRI 90+

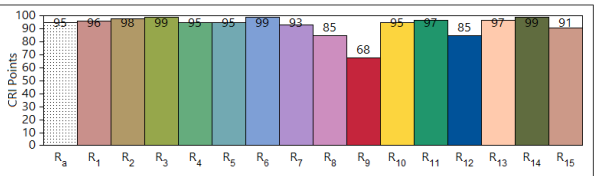
LFPxx00S-G5-927-yy C



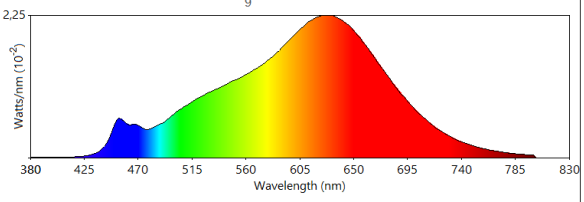
TM-30-18 Color Vector Graphic

R_f = 91 R_g = 96

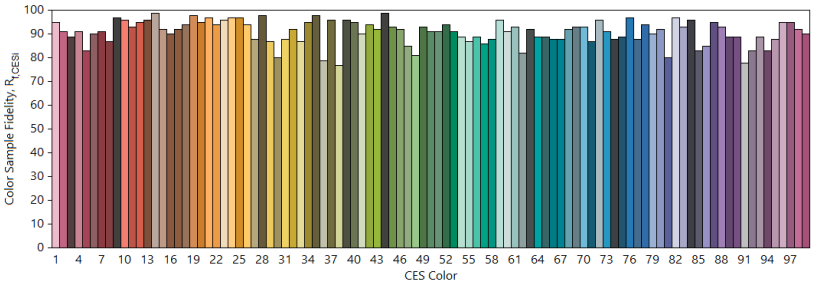




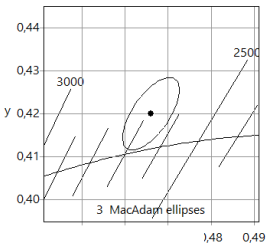
Color Rendering Index R_a/CRI = 90+
R_9 = 68



Spectrum

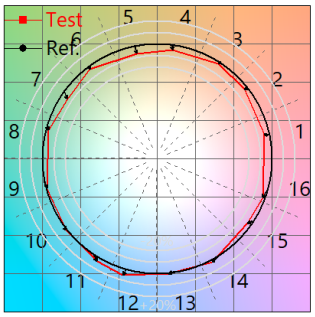


Color Fidelity by Sample



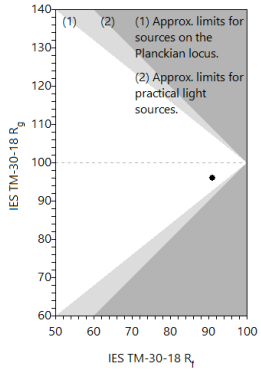
C_x = 0.4660; C_y = 0.4200

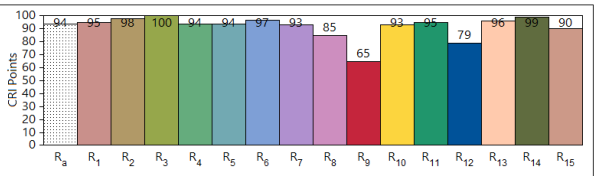
LFPxx00S-G5-930-yy C



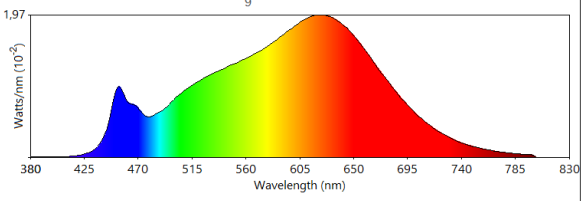
TM-30-18 Color Vector Graphic

R_f = 91 R_g = 96

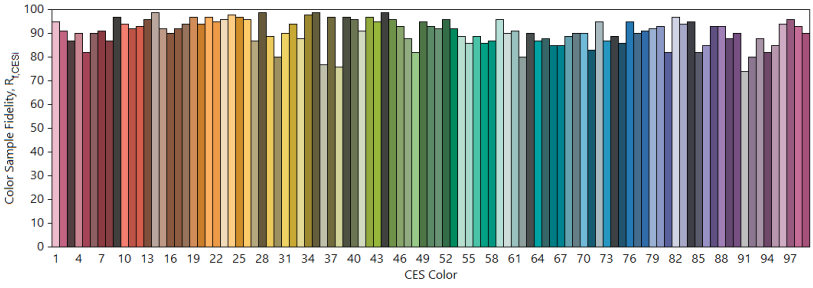




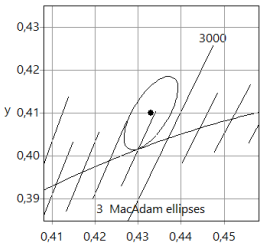
Color Rendering Index R_a/CRI = 90+
R_9 = 65



Spectrum

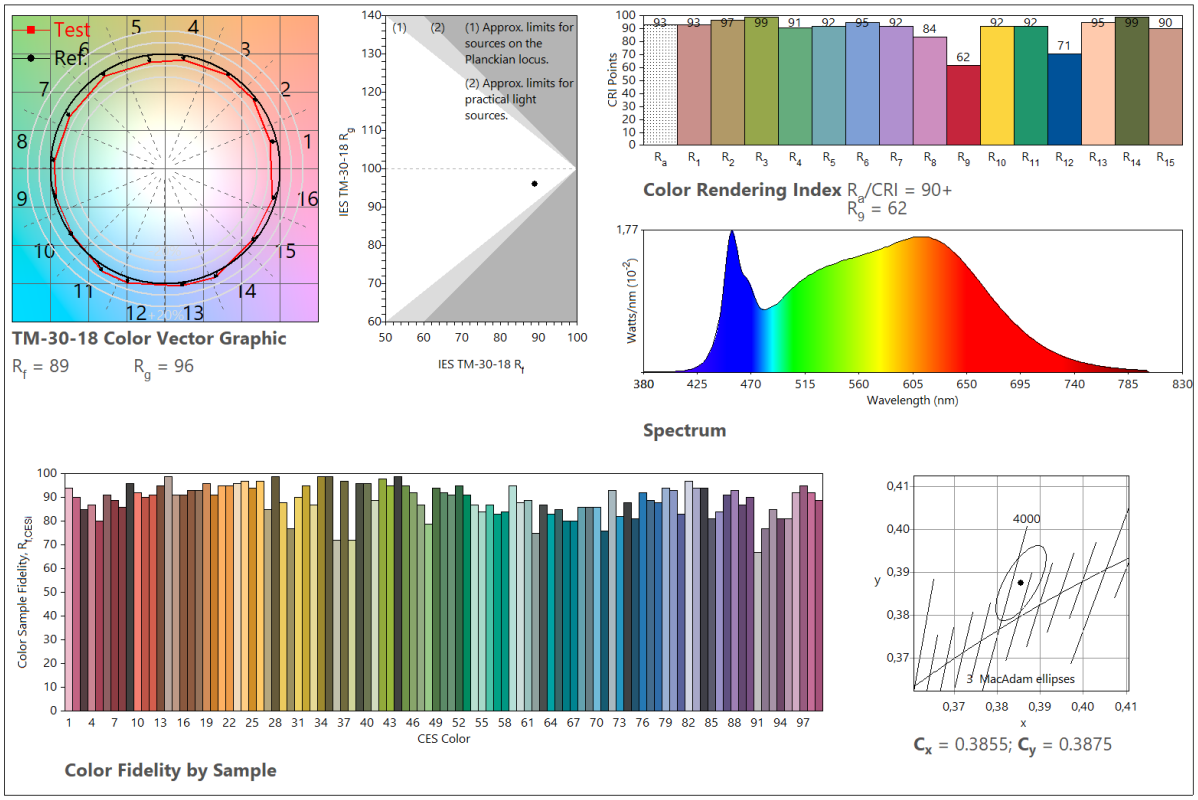


Color Fidelity by Sample



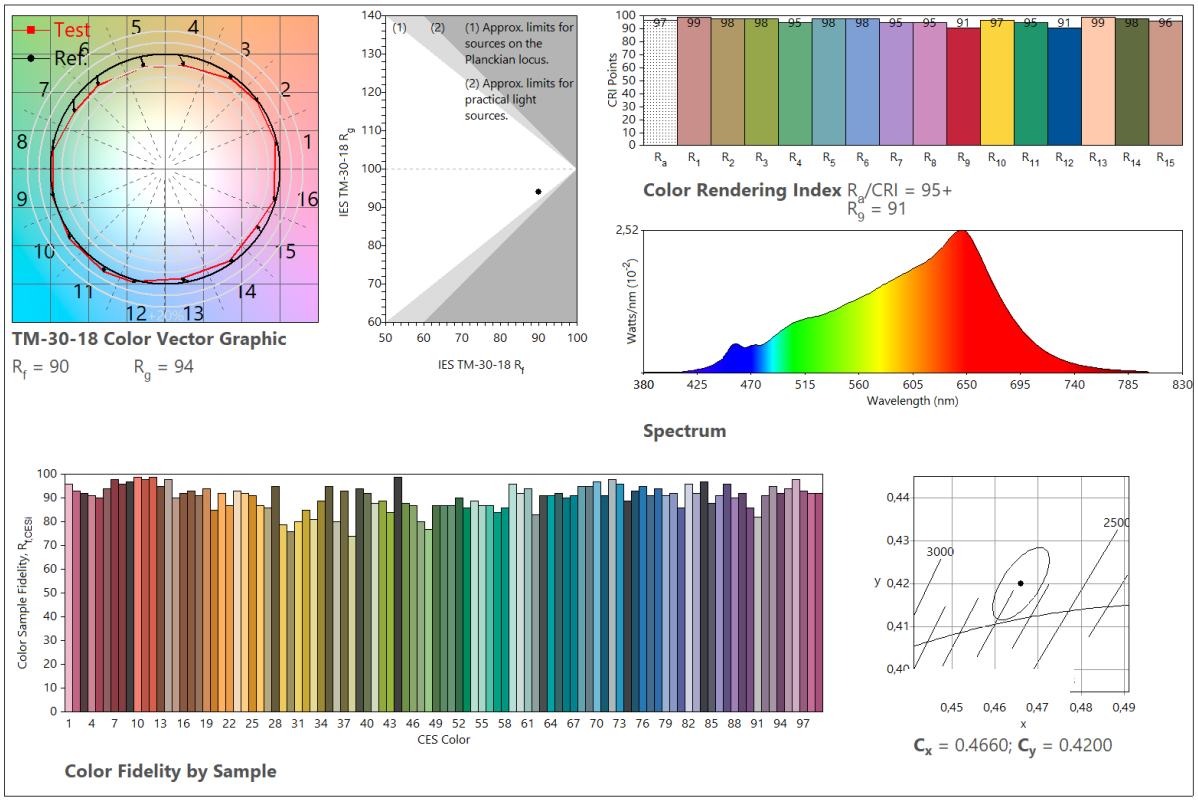
C_x = 0.4330; C_y = 0.4100

LFPxx00S-G5-940-yy C

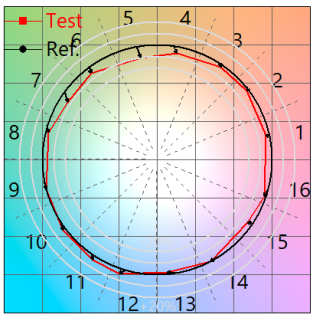


Color output data CRI 95+

LFPxx00S-G5-927R-yy C

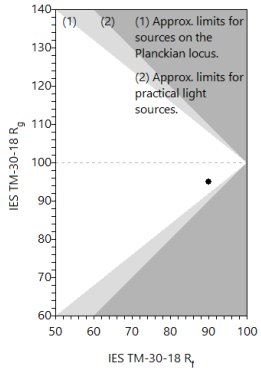


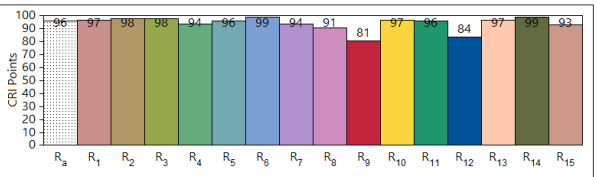
LFPxx00S-G5-930R-yy C



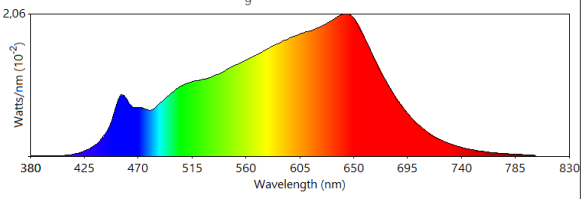
TM-30-18 Color Vector Graphic

R_f = 90 R_g = 95

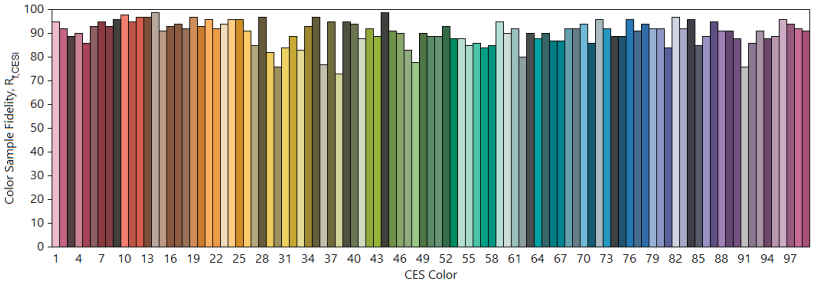




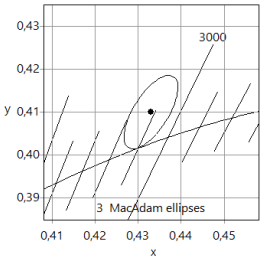
Color Rendering Index R_a/CRI = 95+
R_9 = 81



Spectrum

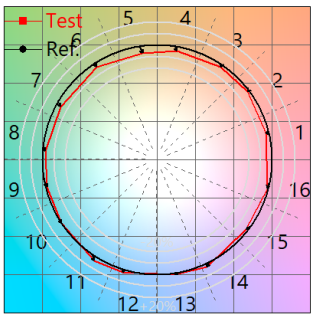


Color Fidelity by Sample



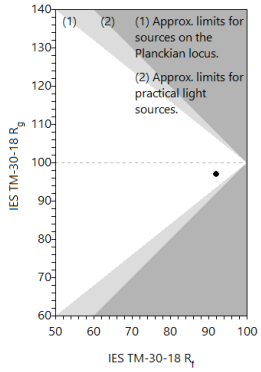
C_x = 0.4330; C_y = 0.4100

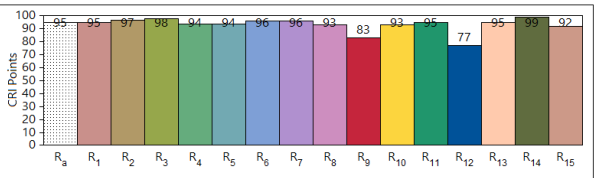
LFPxx00S-G5-940R-yy C



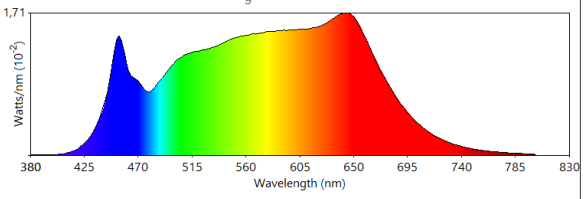
TM-30-18 Color Vector Graphic

R_f = 92 R_g = 97

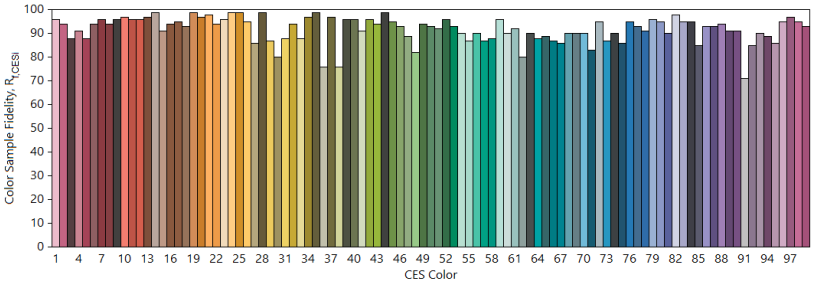




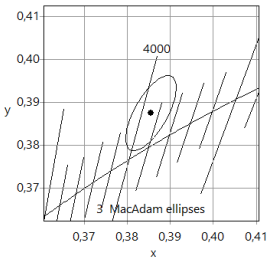
Color Rendering Index R_a/CRI = 95+
R_9 = 83



Spectrum



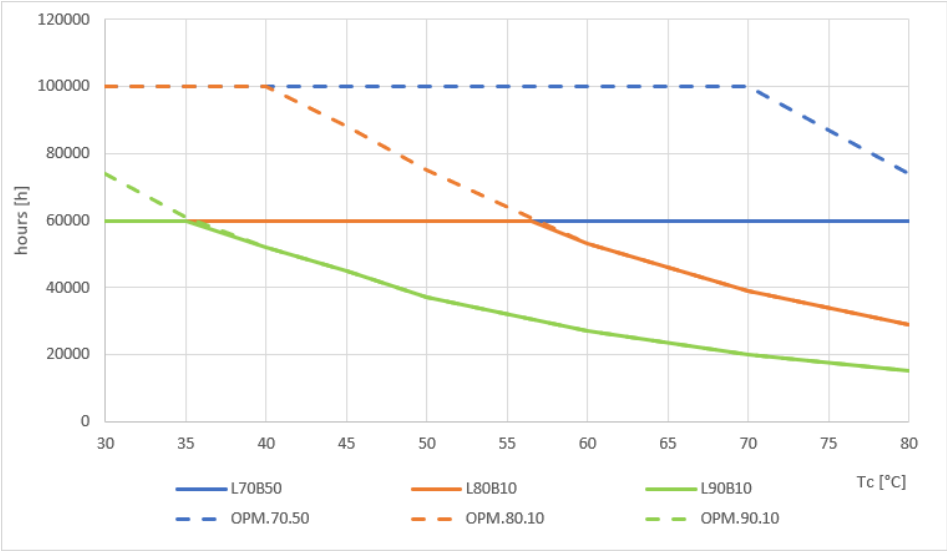
Color Fidelity by Sample



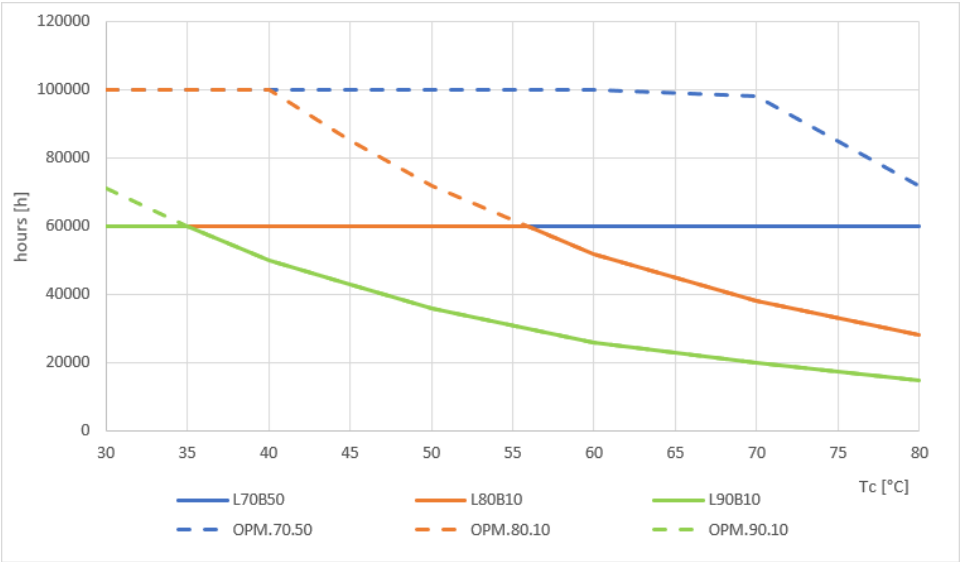
C_x = 0.3855; C_y = 0.3875

Lifetime chart

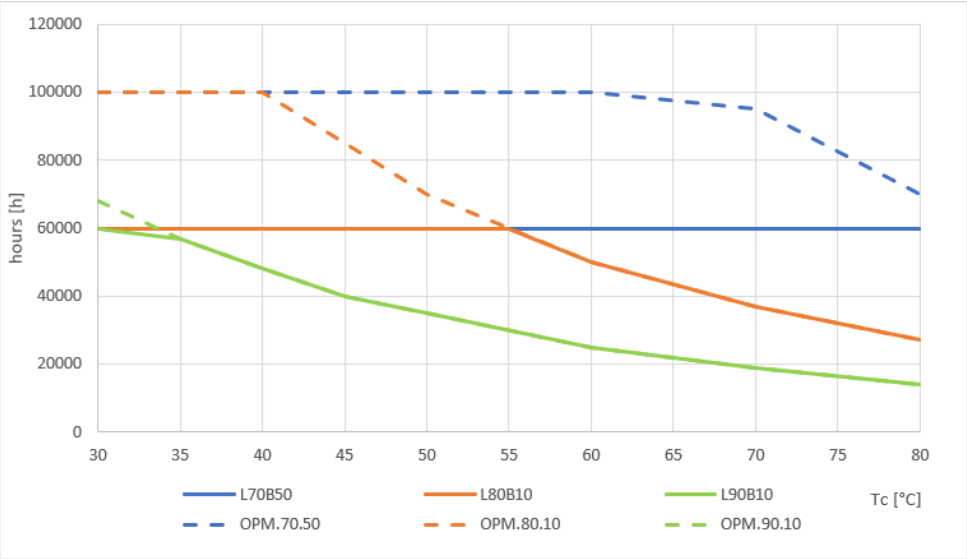
LFP800S-G5-xxx-10 L1 / LFP1200S-G5-xxx-10 L1



LFP1200S-G5-xxxR-05 L1



LFP2000S-G5-xxxx-05 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
LFP800S-G5-825-10 L1	6937186129703	1x Led strip **with single** pre-soldered wire
LFP800S-G5-827-10 L1	6937186129727	1x Led strip **with single** pre-soldered wire
LFP800S-G5-830-10 L1	6937186129741	1x Led strip **with single** pre-soldered wire
LFP800S-G5-840-10 L1	6937186129789	1x Led strip **with single** pre-soldered wire
LFP1200S-G5-825-10 L1	6937186129949	1x Led strip **with single** pre-soldered wire
LFP1200S-G5-827-10 L1	6937186129963	1x Led strip **with single** pre-soldered wire
LFP1200S-G5-830-10 L1	6937186129987	1x Led strip **with single** pre-soldered wire
LFP1200S-G5-840-10 L1	6937186130006	1x Led strip **with single** pre-soldered wire
LFP2000S-G5-825-05 L1	6937186130167	1x Led strip **with single** pre-soldered wire
LFP2000S-G5-827-05 L1	6937186130181	1x Led strip **with single** pre-soldered wire
LFP2000S-G5-830-05 L1	6937186138538	1x Led strip **with single** pre-soldered wire
LFP2000S-G5-840-05 L1	6937186130204	1x Led strip **with single** pre-soldered wire
LFP800S-G5-927-10 L1	6937186129826	1x Led strip **with single** pre-soldered wire
LFP800S-G5-930-10 L1	6937186129864	1x Led strip **with single** pre-soldered wire
LFP800S-G5-940-10 L1	6937186129901	1x Led strip **with single** pre-soldered wire
LFP1200S-G5-927-10 L1	6937186130020	1x Led strip **with single** pre-soldered wire
LFP1200S-G5-930-10 L1	6937186130068	1x Led strip **with single** pre-soldered wire
LFP1200S-G5-940-10 L1	6937186130129	1x Led strip **with single** pre-soldered wire
LFP2000S-G5-927-05 L1	6937186130242	1x Led strip **with single** pre-soldered wire
LFP2000S-G5-930-05 L1	6937186130280	1x Led strip **with single** pre-soldered wire
LFP2000S-G5-940-05 L1	6937186130327	1x Led strip **with single** pre-soldered wire
LFP800S-G5-927R-10 L1	6937186129840	1x Led strip **with single** pre-soldered wire
LFP800S-G5-930R-10 L1	6937186129888	1x Led strip **with single** pre-soldered wire
LFP800S-G5-940R-10 L1	6937186129925	1x Led strip **with single** pre-soldered wire
LFP1200S-G5-927R-05 L1	6937186130044	1x Led strip **with single** pre-soldered wire
LFP1200S-G5-930R-05 L1	6937186130082	1x Led strip **with single** pre-soldered wire
LFP1200S-G5-940R-05 L1	6937186130143	1x Led strip **with single** pre-soldered wire
LFP2000S-G5-927R-05 L1	6937186130266	1x Led strip **with single** pre-soldered wire
LFP2000S-G5-930R-05 L1	6937186130303	1x Led strip **with single** pre-soldered wire
LFP2000S-G5-940R-05 L1	6937186130341	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 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:

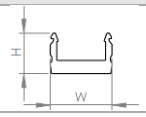
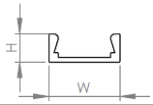
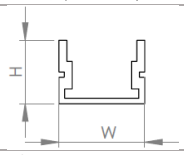
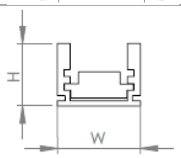
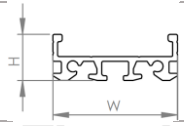
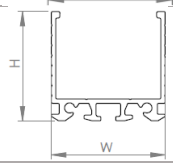
LED highly visible | **Faded LEDs** – LED partially visible | **LED NOT visible** – good light uniformity

- **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: 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

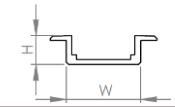
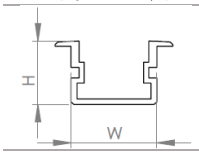
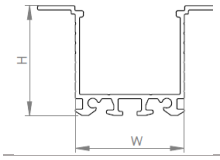
SURFACE INSTALLATION

Track Type	Dimension WxH	Product description	Max Tamb [°C]			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
	15x10 mm	**LTS-SLIMTRACK-2000** **EAN:**6937186141200	50°C	45°C	42°C	-20%	-35%	-40%
	15x6 mm	**FX-QMS-G2-TU15H6-300** **EAN:**6937186130860	50°C **(NB1)**	47°C **(NB1)**	45°C **(NB1)**	--	--	--
	16x12 mm	**FX-QMS-G1-TU16H12-300** **EAN:**6937186126740	50°C	50°C	42°C	-24%	-45%	--
	16x12 mm	**FX-QMS-G1-TU16H12LS-300** **EAN:**6937186148421	50°C **(NB2)**	50°C **(NB2)**	42°C **(NB2)**	--	--	-30%
	26x10 mm	**FX-QMW-G2-TU26H10-200** **EAN:** 6937186126849	50°C	50°C	45°C	--	--	-30%
	26x25 mm	**FX-QMW-G2-TU26H25-200** **EAN:** 6937186126825	50°C	50°C	45°C	--	-55%	-50%

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

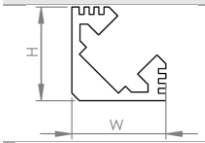
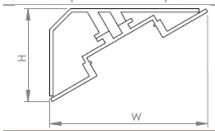
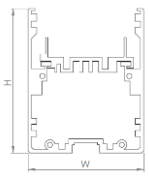
NB2: LFPxxxxS-G5 can be installed in FX-QMS-G1-TU16H12LS-300 but only without the internal aluminum bar otherwise it is not possible the lens installation.

RECESSED INSTALLATION

Track Type	Dimension WxH	Product description	Max Tamb [°C]			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
	15x6 mm	**FX-QMS-G2-TU15H6W3-300** **EAN:**6937186126702	50°C **(NB1)**	47°C **(NB1)**	45°C **(NB1)**	--	--	--
	16x12 mm	**FX-QMS-G1-TU16H12W3-300** **EAN:**6937186146229	50°C	50°C	42°C	-24%	-45%	--
	26x25 mm	**FX-QMW-G2-TU26H25W10-200** **EAN:** 6937186126801	50°C	50°C	45°C	--	-55%	-50%

NB1: LFPxxxxS-G5 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)		
			LFP800S LFP1200S	LF2P000S-G5-8xxx	LF2P000S-G5-9xxx	Flat Cover Transparent	Flat Cover Frosted or Opal	Round Cover Frosted or lens
	19x19 mm	**FX-QMS-G2-T45D19H19-300** **EAN:**6937186131706	50°C	47°C	50°C	-38%	-57%	--
	46 x 27 mm	**FX-QMW-G1-TK30D46H27-300** **EAN:**6937186148407	50°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 24Vdc drivers provided by Inventronics are compatible with LINEARlight FLEX Uniformity family.
Here below are available, as a suggestion, a couple of simple system combinations.

For **1 x LFP800S-G5-827-10 L1 – 72W**

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

For **1 x LFP2000S-G5-827-05 L1 – 91W**

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

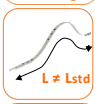
Customizations

LINEARlight FLEX UNIFORMITY 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.

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

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

UNIFORMITY 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.



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

UNIFORMITY 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.