

inventronics

LINEARlight® FLEX Protect Tunable White IP66/IP67

The perfect cozy atmosphere also for outdoor installations

LFP1100/3400TW-G5

Features & Benefits

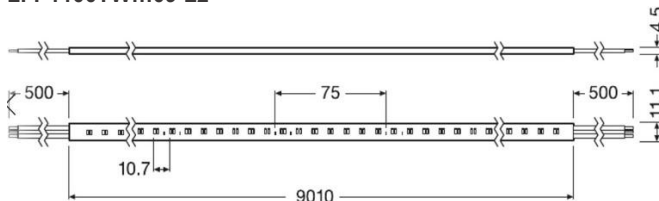


- Durable IP67 & IP66 fully sealed and filled with crystalline optical grade silicone
- Outdoor use possible: UV and salt mist tested
- 1100 / 3400 lm/m
- Adjustable color temperature via Tunable White: 2700 ... 5700K, 2500 ... 4000K
- Color uniformity ≤ 3 SDCM*
- CRI90
- Lifetime up to 60.000 h L80B10 at Tp, with SDT Technology
- Dimmable down to 0.1% with OPTOTRONIC LED drivers
- Internal constant current regulators on each single cut unit
- LM80 & LM79 compliant
- Great design freedom thanks to flexibility and cuttability of the LED strip
- Easy mounting on many smooth surfaces thanks to self-adhesive tape
- Top reliability with Reel-to-Reel technology, 186 LED/m
- High speed protection in case of accidental miswiring up to 25V
- Pre-soldered wires
- Made in Italy

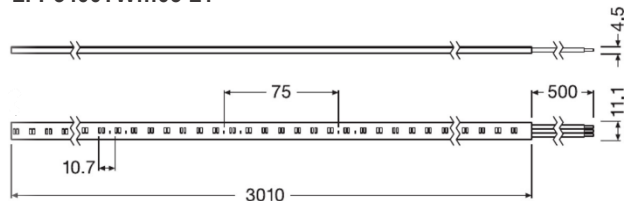


Technical drawings

LFP1100TW...09 L2



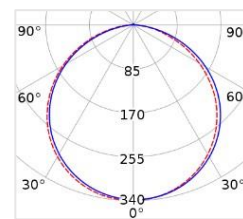
LFP3400TW...03 L1



Lowest Bending Radius = 50 mm

Max. operable length = product length

Nominal Voltage	24.0 V – (23V...25V)
Accidental reverse voltage protection up to	25.0 V
Temperature range in operation @ Tc point	-20°C... +85°C
Storage Temperature	-40°C... +85°C
Ambient Temperature with profile **	-20°C... +50°C



Beam Angle 120°

Technical data

TUNABLE WHITE		Color Temperature	CRI	lm/m	Power W/m	lm/W	Performance Temp. Tp °C	Length m
LFP1100TW-G5-825.940-09 L2		2500-4000 K	80/90	1156	9.9	117	40	9
LFP1100TW-G5-927.957-09 L2		2700-5700 K	90	1134	10.2	111	40	9

TUNABLE WHITE		Color Temperature	CRI	lm/m	Power W/m	lm/W	Performance Temp. Tp °C	Length m
LFP3400TW-G5-825.940-03 L1		2500-4000 K	80/90	3356	30.9	108	50	3
LFP3400TW-G5-927.957-03 L1		2500-3500 K	90	3356	32.0	105	50	3

Technical data per each channel

	BOTH CHANNELS 50% ON			CH1 = 100% ON, CH2 = OFF			CH1 = OFF, CH2 = 100% ON		
TUNABLE WHITE	CCT [K]	lm/m	W/m	CCT [K]	lm/m	W/m	CCT [K]	lm/m	W/m
LFP1100TW-G5-825.940-09 L2	3145	578	5.0	2500	578	5.0	4000	578	5.0
LFP1100TW-G5-927.957-09 L2	3759	567	5.1	2700	567	5.1	5700	567	5.1

	BOTH CHANNELS 50% ON			CH1 = 100% ON, CH2 = OFF			CH1 = OFF, CH2 = 100% ON		
TUNABLE WHITE	CCT [K]	lm/m	W/m	CCT [K]	lm/m	W/m	CCT [K]	lm/m	W/m
LFP3400TW-G5-825.940-03 L1	3115	1678	15.5	2500	1678	15.5	4000	1678	15.5
LFP3400TW-G5-927.957-03 L1	3708	1678	16.0	2700	1678	16.0	5700	1678	16.0

Melanopic effect - Human Centric Lighting

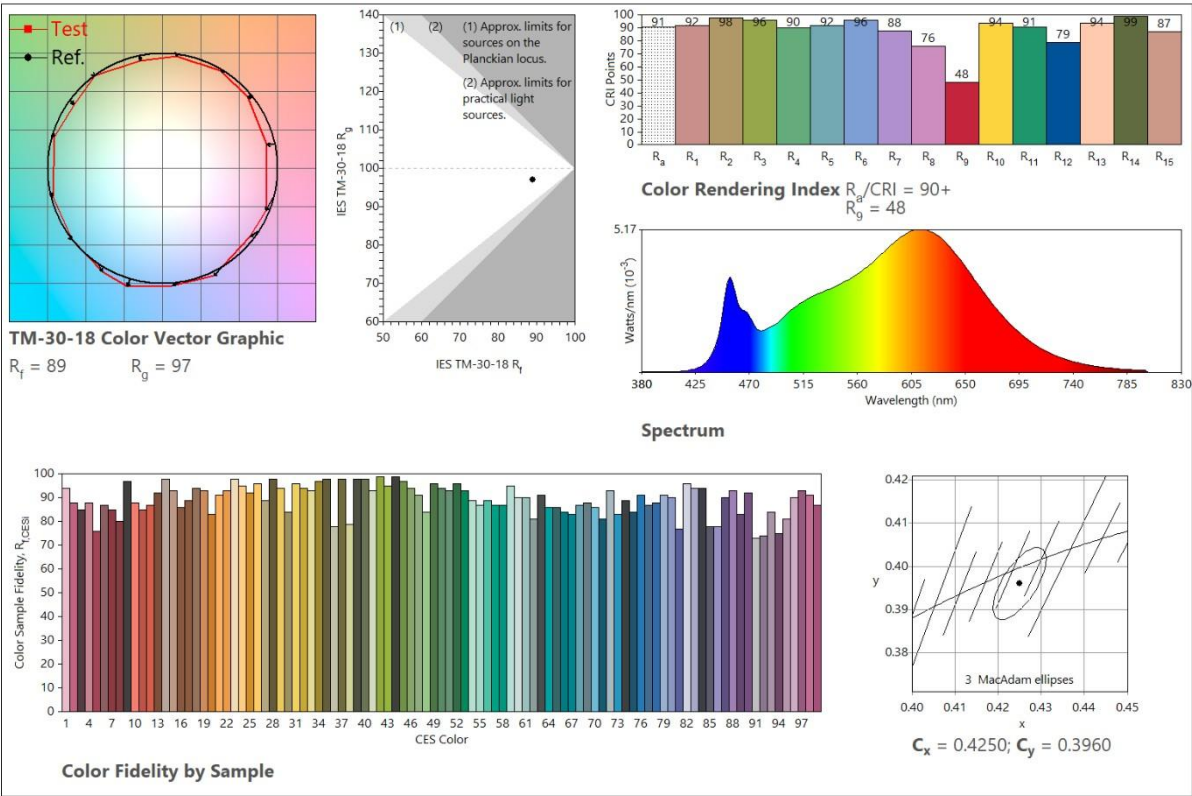
	a_{mel}, V			$\Phi_{V, mel, D65}$			Spectral data [K]			Photometric luminous flux [lm/m]
	a	b	c	a	b	c	a	b	c	
LFP1100TW-G5-825.940-09 L2	0.325	0.478	0.616	359	538	680	2500	3145	4000	578
LFP1100TW-G5-927.957-09 L2	0.395	0.602	0.771	436	665	851	2700	3759	5700	567
LFP3400TW-G5-825.940-03 L1	0.322	0.478	0.605	355	527	667	2500	3115	4000	1678
LFP3400TW-G5-927.957-03 L1	0.410	0.583	0.814	453	643	898	2700	3708	5700	1678

Operating conditions:

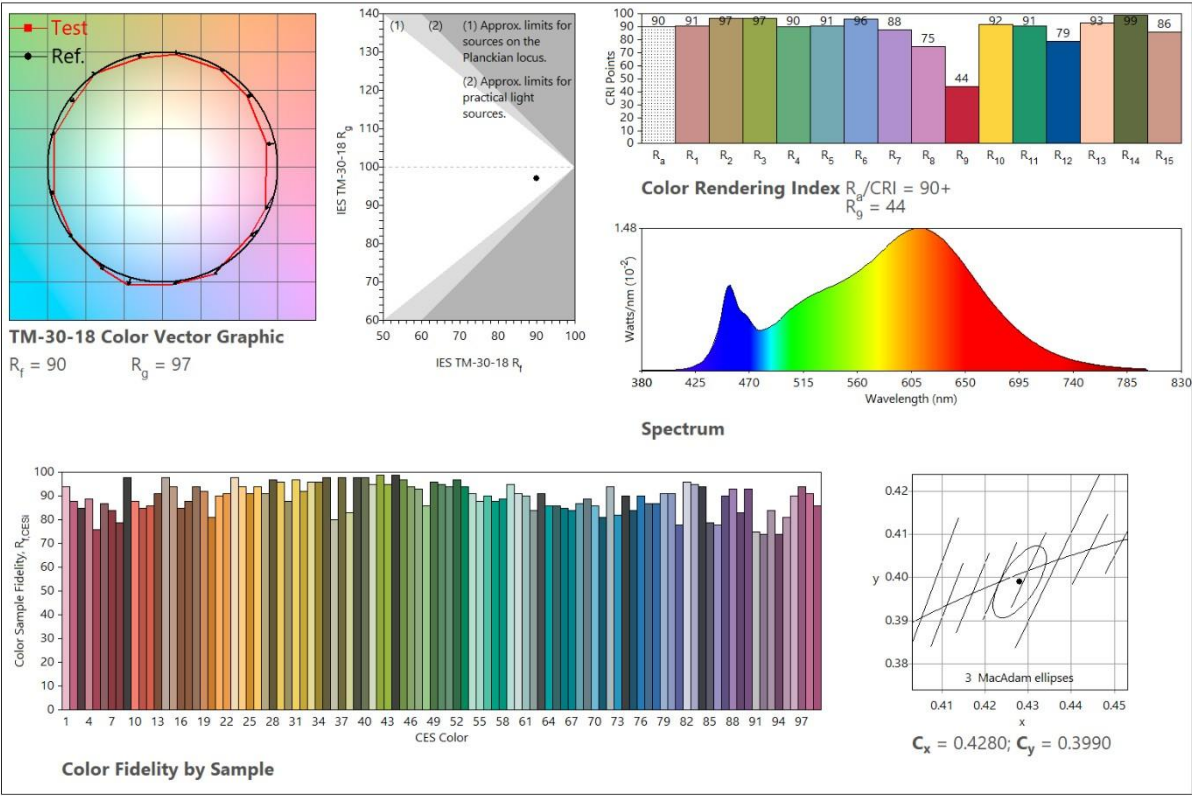
- **a:** Ch1=100%, Ch2 OFF
- **b:** Ch1=50%, Ch2=50%
- **c:** Ch1 OFF, Ch2=100%

Color output data – both channels 50% ON

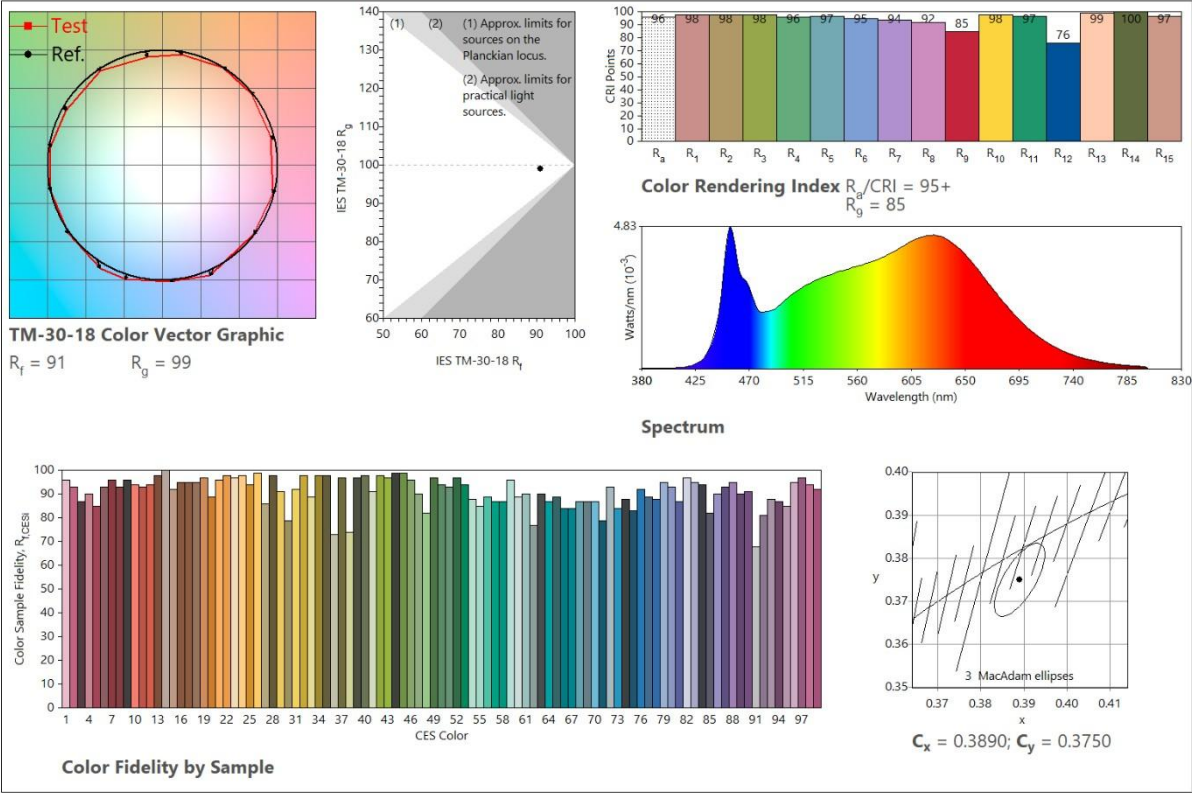
LFP1100TW-G5-825940-09 L2



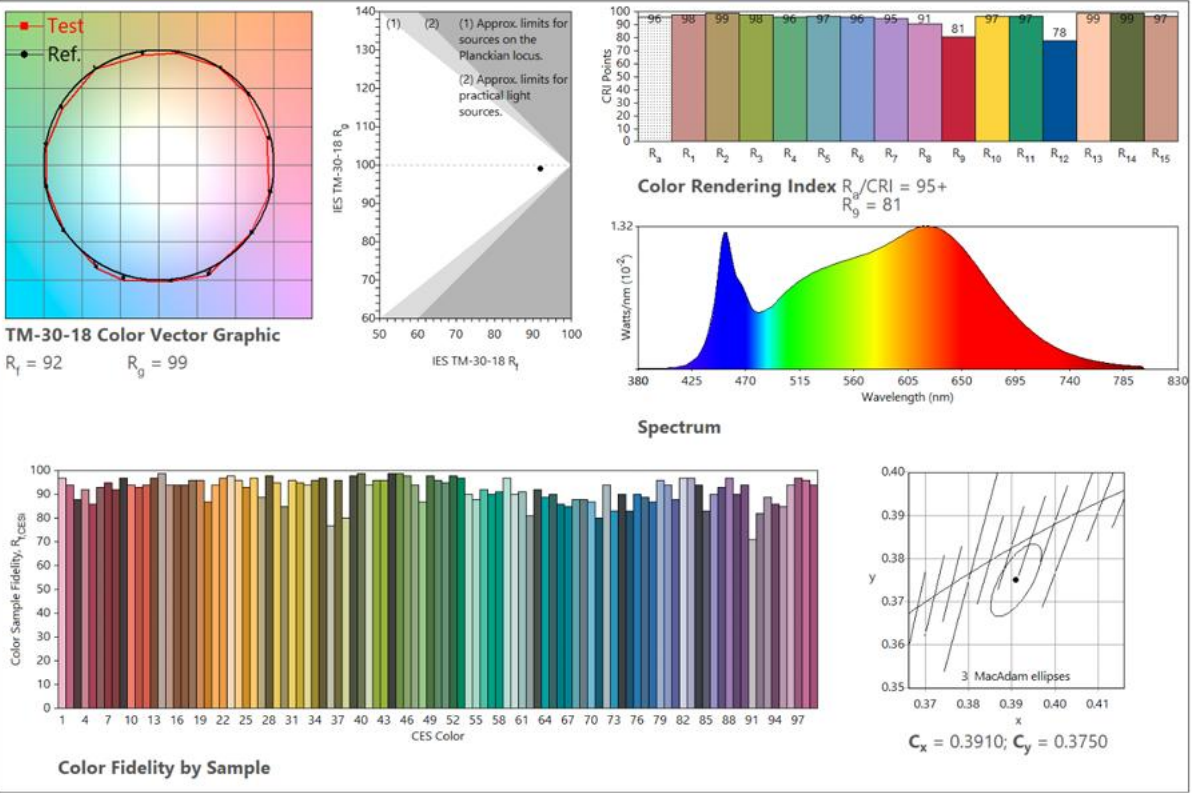
LFP3400TW-G5-825940-03 L1



LFP1100TW-G5-927957-09 L2

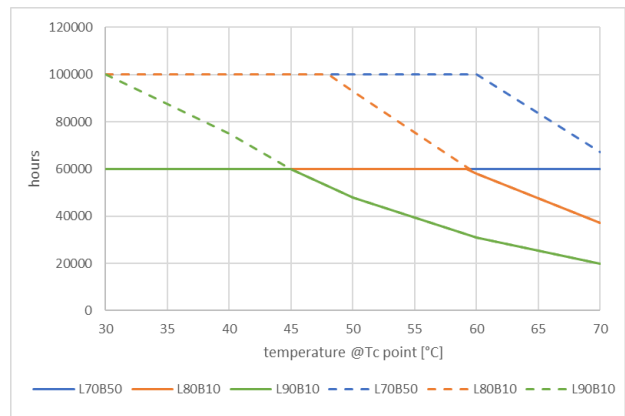


LFP3400TW-G5-927957-03 L1

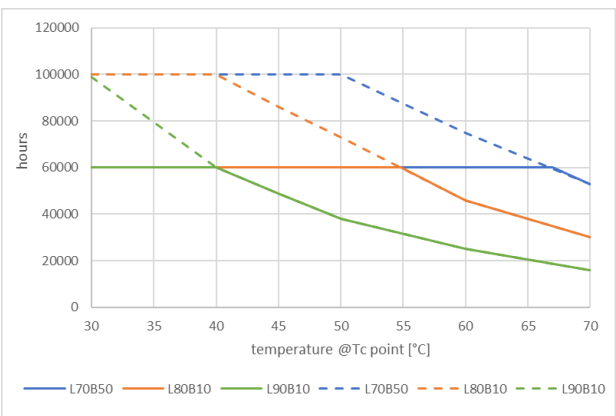


Lifetime charts

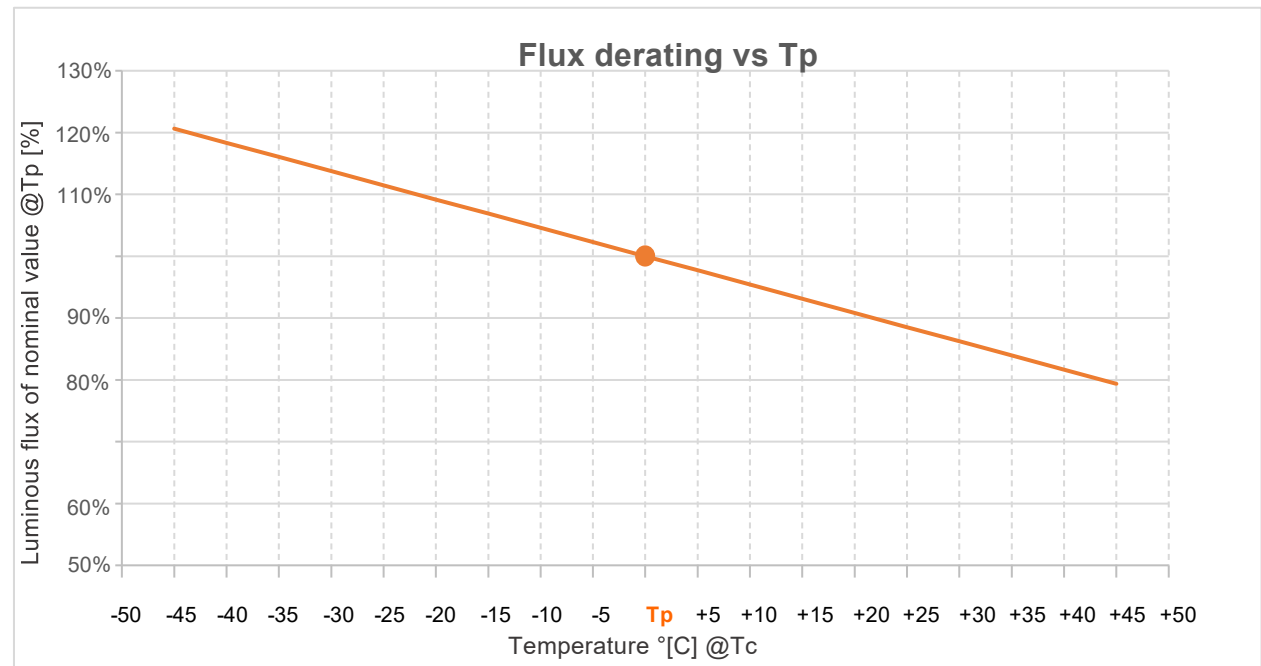
LFP1100TW



LFP3400TW



Luminous Flux maintenance according to Tp value



Note: Light flux varies with the temperature measured @Tc point; nominal values is given @Tc = Tp. Flux increases when Tc decreases.

Packaging content

Product description	Product code	EAN10 Package content
LFP1100TW-G5-825.940-09 L2	6937186141668	1x Led strip both ends with pre-soldered wires
LFP1100TW-G5-927.957-09 L2	6937186129468	1x Led strip both ends with pre-soldered wires
LFP3400TW-G5-825.940-03 L1	6937186141682	1x Led strip with single pre-soldered wires
LFP3400TW-G5-927.957-03 L1	6937186129444	1x Led strip with single pre-soldered wires

Accessories

Product Type	Product description	Product code (EAN10)	EAN10 Package content
 Silicone CLIP	LF-CLIP-FIXTURE PROTECT	6937186148360	50x clips
 End cap IP67	ENDCAP-IP67 KIT 10PCS	6937186131850	10x endcap, 1x glue

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:



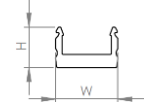
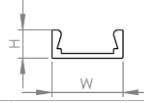
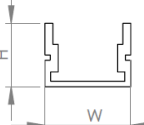
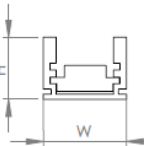
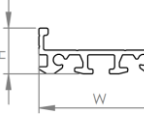
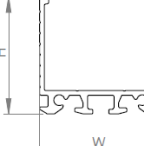
- **OPTICAL PERFORMANCES - OPTICAL EFFICIENCY:** it represents, in percentage, the amount of light lost due to the system used. If the percentage is not available, it means that the cover does not exist or cannot be used.

Eg: LFP1100TW-G5-927.957-09 L2 + LTS-SLIMTRACK-2000 + cover transparent

$$1134\text{lm/m} \times (-20\%) = 640\text{lm/m}$$

907lm/m is the lumen output outside the system

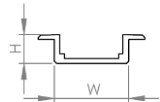
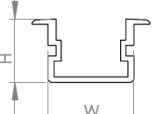
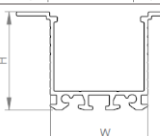
SURFACE INSTALLATION

Track Type	Dimension WxH	Product description	Max Tamb [°C]				OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)		
			LFP1100TW DT6	LFP1100TW DT8	LFP3400TW DT6	LFP3400TW DT8	Flat Cover Transparent	Flat Cover Frosted or Opal	Round Cover Frosted or Lens
	14.5x9.5 mm	LTS-SLIMTRACK-2000 EAN:6937186141200	50°C	50°C	30°C	50°C	-20%	-35%	-40%
	15x6 mm	FX-QMS-G2-TU15H6-300 EAN:6937186130860	50°C (NB1)	50°C (NB1)	25°C (NB1)	50°C (NB1)	-15%	-40%	--
	16x12 mm	FX-QMS-G1-TU16H12-300 EAN:6937186126740	50°C	50°C	30°C	50°C	-24%	-45%	--
	16x12 mm	FX-QMS-G1-TU16H12LS-300 EAN:6937186148421	50°C (NB2)	50°C (NB2)	30°C (NB2)	50°C (NB2)	--	--	-30%
	26x10 mm	FX-QMW-G2-TU26H10-200 EAN: 6937186126849	50°C	50°C	35°C	50°C	--	--	-30%
	26x25 mm	FX-QMW-G2-TU26H25-200 EAN: 6937186126825	50°C	50°C	40°C	50°C	--	-55%	-50%

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

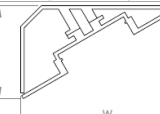
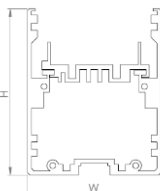
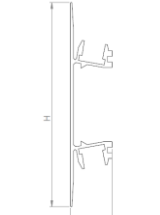
NB2: LFPxxxxTW-G5 can be installed in FX-QMS-G1-TU16H12LS-300 but only without the internal aluminum bar otherwise it is not possible the lens installation.

RECESSED INSTALLATION

Track Type	Dimension WxH	Product description	Max Tamb [°C]				OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)			
			LFP1100TW DT6	LFP1100TW DT8	LFP3400TW DT6	LFP3400TW DT8	Flat Cover	Transparent	Flat Cover	Frosted or Opal
	15x6 mm	FX-QMS-G2-TU15H6W3-300 EAN:6937186126702	50°C (NB1)	50°C (NB1)	25°C (NB1)	50°C (NB1)	-15%		-40%	--
	16x12 mm	FX-QMS-G1-TU16H12W3-300 EAN:6937186146229	50°C	50°C	30°C	50°C	-24%		-45%	--
	26x25 mm	FX-QMW-G2-TU26H25W10-200 EAN: 6937186126801	50°C	50°C	40°C	50°C	--		-55%	-50%

NB1: LFPxxxxTW-G2 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)			
			LF1100TW DT6	LF1100TW DT8	LF3400TW DT6	LF3400TW DT8	Flat Cover	Transparent	Flat Cover	Frosted or Opal
	19x19 mm	FX-QMS-G2-T45D19H19-300 EAN:6937186131706	50°C	50°C	30°C	50°C	-38%		-57%	--
	46 x 27 mm	FX-QMW-G1-TK30D46H27-300 EAN:6937186148407	50°C	50°C	35°C	50°C	--		-39%	-43%
	56x70 mm	FX-QMP-G1-TU56H70-xx-0yy EAN: 6977078997805 6977078997836 6977078997867 6977078997898 6977078997928 6977078997959	50°C	50°C	35°C	50°C	--		-32%	-26%
	22x110 mm	FX-QMR-G1-TT25H110-xx-0yy EAN: 6977078998017 6977078998048 6977078998079 6977078998109 6977078998130 6977078998161	50°C	50°C	35°C	50°C	--		-70%	--

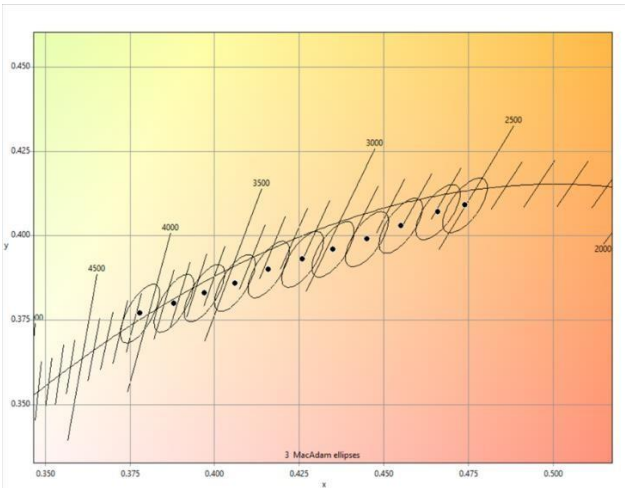
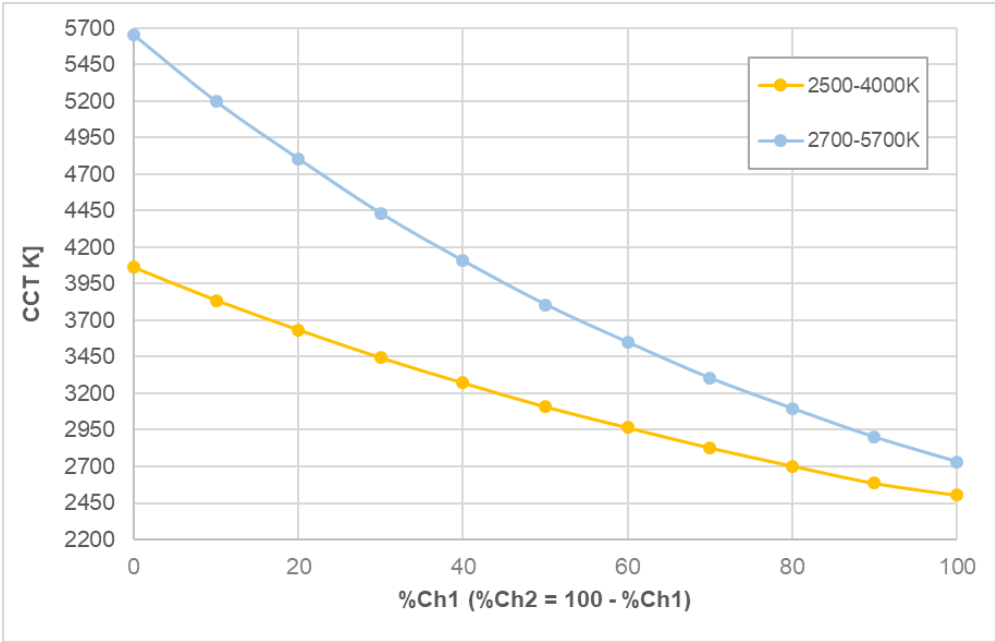
LED Driver combination

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

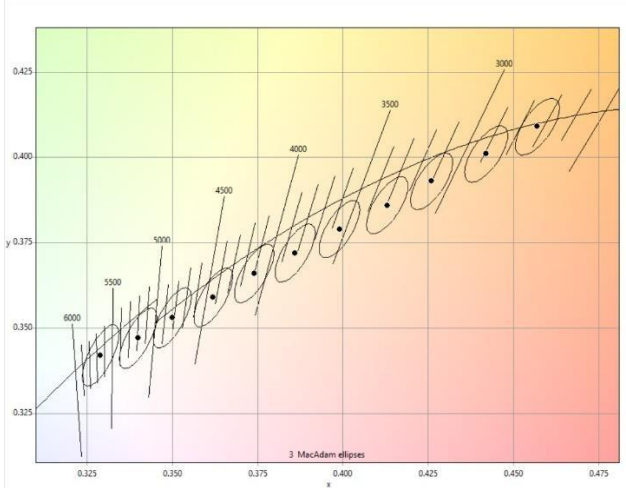
For 1 x LFP1100TW-G5-927.957-09 L2 – 91.8W

Product name	Product description	EAN 10
OT 130/220-240/24 P + OT DMX DIM 5CH	DMX	6937186114990 + 6977078993838
OTi DALI 100/220-240/244CHDT6/8 P	DALI	6937186115157

Color Mixing



LFPxx00TW-G5-825.940



LFPxx00TW-G5-927.957

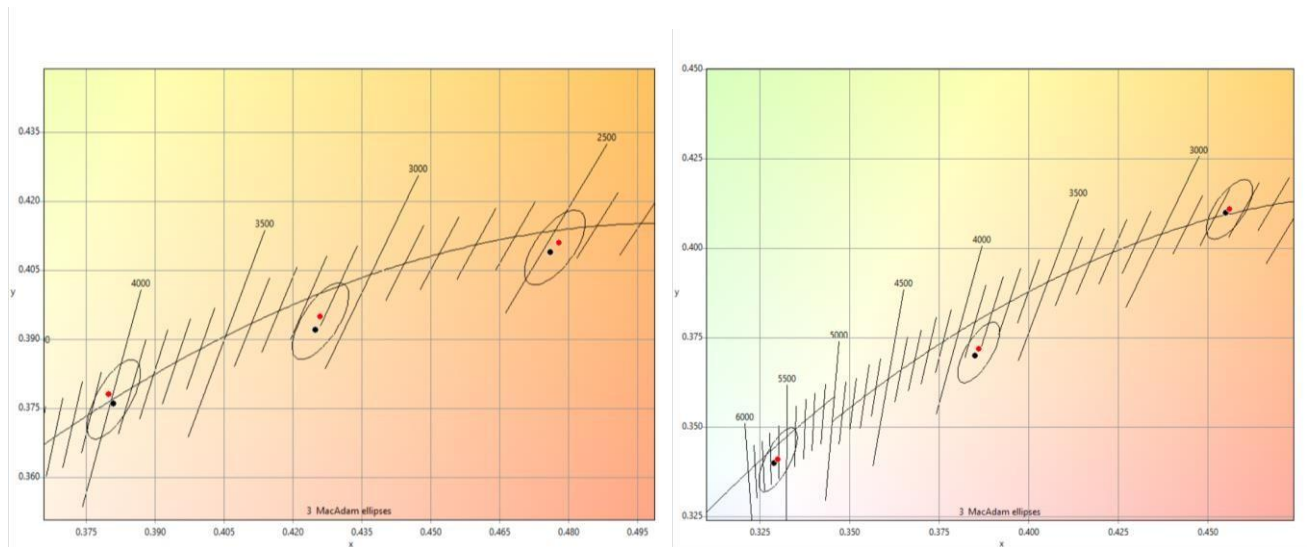
Disclaimer

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.

Note regarding the cold channel CCTs: average CCT centers of all four power versions stay within a 3 SDCM ellipse, thus no visible difference between them according to the Mac Adam's studies.



3 SDCM ellipses

Dots represent the average CCT centers of each lumen package for single channels ON and mixed white with both channels ON

- 1100 lm/m - ● 3400 lm/m