



LINEARlight[®] FLEX Tunable White IP00

Adjust the light color temperature and simulate natural daylight or create the perfectly cozy atmosphere

LF1100/3400TW-G5

Features & Benefits



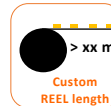
- High luminous flux up to 3400 lm/m
- Adjustable color temperature via Tunable White: 2200 ... 3500 K
2500 ... 4000K, 2700 ... 5700K
- Color uniformity ≤ 3 SDCM
- CRI90
- Lifetime up to 60.000 h L80B10 at T_p , with SDT Technology
- Dimmable down to 0.1% with OPTOTRONIC[®] LED drivers
- Internal constant current regulators on each single cut unit
- LM80 & LM79 compliant
- High quality materials for long lasting stable performances
- 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 with the optional Connection System
- Made in Italy

Application areas

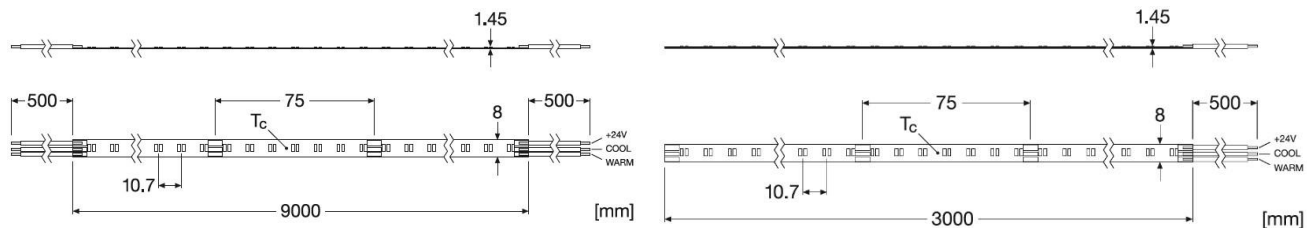
Cove lighting, Shop lighting, Offices, Dynamic lighting applications

Standards

CE, ENEC 10 VDE, EAC, UL Recognized according UL 8750

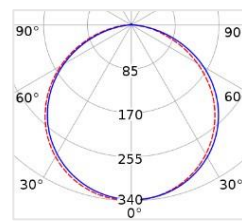


Technical drawings



Lowest Bending Radius = 20 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... +55°C



Beam Angle 120°

Technical data

TUNABLE WHITE		Color Temperature	CRI	lm/m	Power W/m	lm/W	Performance Temp. Tp °C	Length m
LF1100TW-G5-922.935-09 L2		2200-3500 K	90	1111	10.9	102	35	9
LF1100TW-G5-925.940-09 L2		2500-4000 K	90	1156	10.4	111	35	9
LF1100TW-G5-927.957-09 L2		2700-5700 K	90	1156	9.8	118	35	9
LF1100TW-G5-927.965-09 L2		2700-6500 K	90	1156	9.8	118	35	9

TUNABLE WHITE		Color Temperature	CRI	lm/m	Power W/m	lm/W	Performance Temp. Tp °C	Length m
LF3400TW-G5-922.935-03 L1		2200-3500 K	90	3400	34.7	98	45	3
LF3400TW-G5-925.940-03 L1		2500-4000 K	90	3400	32.4	105	45	3
LF3400TW-G5-927.957-03 L1		2700-5700 K	90	3400	30.2	113	45	3
LF3400TW-G5-927.965-03 L1		2700-6500 K	90	3400	30.9	110	45	3

Technical data per each channel

TUNABLE WHITE	BOTH CHANNELS 50% ON			CH1 = 100% ON, CH2 = OFF			CH1 = OFF, CH2 = 100% ON		
	CCT [K]	lm/m	W/m	CCT [K]	lm/m	W/m	CCT [K]	lm/m	W/m
LF1100TW-G5-922.935-09 L2	2760	556	5.5	2200	556	6.1	3500	556	4.9
LF1100TW-G5-925.940-09 L2	3119	578	5.2	2500	578	5.7	4000	578	4.7
LF1100TW-G5-927.957-09 L2	3840	578	4.8	2700	578	5.1	5700	578	4.7
LF1100TW-G5-927.965-09 L2	4181	578	4.8	2700	578	5.1	6500	578	4.7

TUNABLE WHITE	BOTH CHANNELS 50% ON			CH1 = 100% ON, CH2 = OFF			CH1 = OFF, CH2 = 100% ON		
	CCT [K]	lm/m	W/m	CCT [K]	lm/m	W/m	CCT [K]	lm/m	W/m
LF3400TW-G5-922.935-03 L1	2753	1700	17.4	2200	1700	19.1	3500	1700	15.6
LF3400TW-G5-925.940-03 L1	3109	1700	16.2	2500	1700	17.7	4000	1700	14.7
LF3400TW-G5-927.957-03 L1	3821	1700	15.1	2700	1700	15.7	5700	1700	14.5
LF3400TW-G5-927.965-03 L1	4134	1700	15.5	2700	1700	16.0	6500	1700	14.9

Melanopic effect – Human Centric Lighting

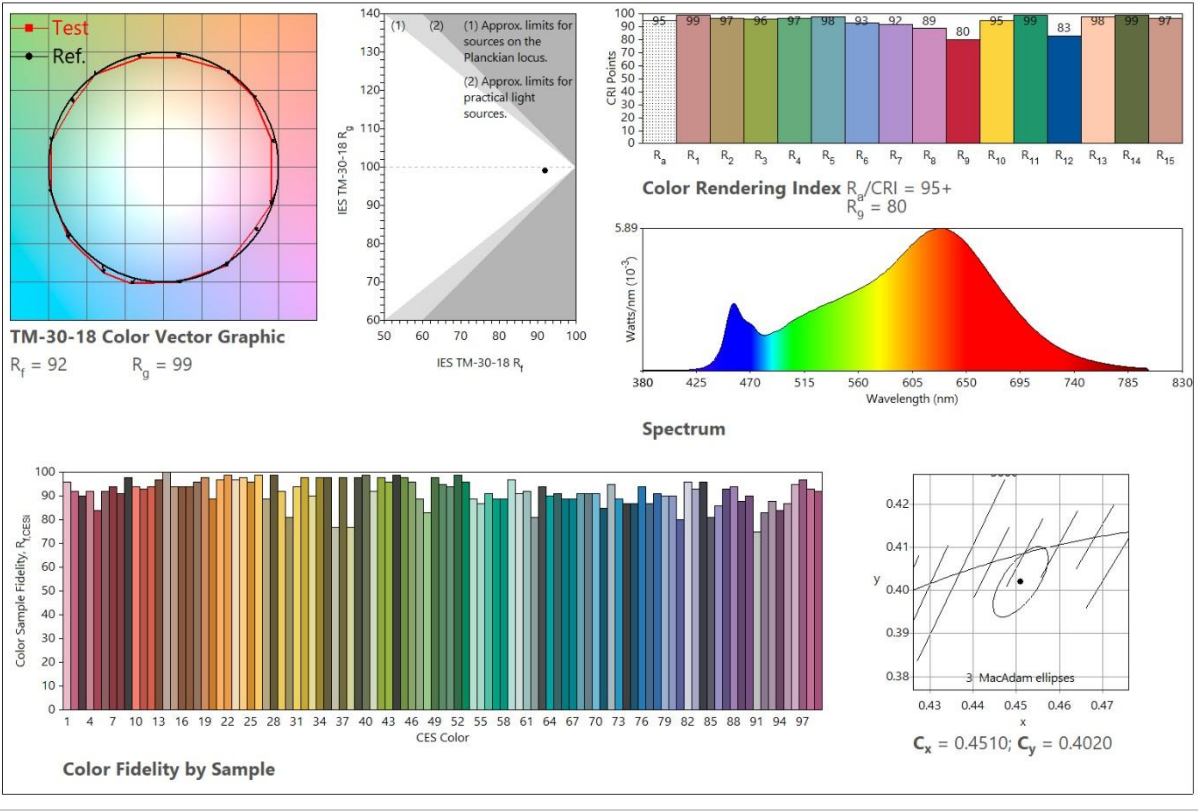
	$a_{mel, V}$			$\Phi_{V, mel, D65}$			Spectral data [K]			Photometric luminous flux [lm/m]
	a	b	c	a	b	c	a	b	c	
LF1100TW-G5-922.935-09 L2	0.318	0.449	0.541	351	496	597	2200	2760	3500	556
LF1100TW-G5-925.940-09 L2	0.397	0.501	0.695	418	553	728	2500	3110	4000	578
LF1100TW-G5-927.957-09 L2	0.421	0.620	0.801	765	684	884	2700	3830	5700	578
LF1100TW-G5-927.965-09 L2	0.421	0.671	0.915	765	740	1009	2700	4181	6500	578
LF3400TW-G5-922.935-03 L1	0.315	0.436	0.538	348	481	594	2200	2753	3500	1700
LF3400TW-G5-925.940-03 L1	0.373	0.490	0.650	412	541	717	2500	3109	4000	1700
LF3400TW-G5-927.957-03 L1	0.418	0.602	0.795	461	673	877	2700	3821	5700	1700
LF3400TW-G5-927.965-03 L1	0.418	0.657	0.915	461	725	1009	2700	4134	6500	1700

Operating conditions:

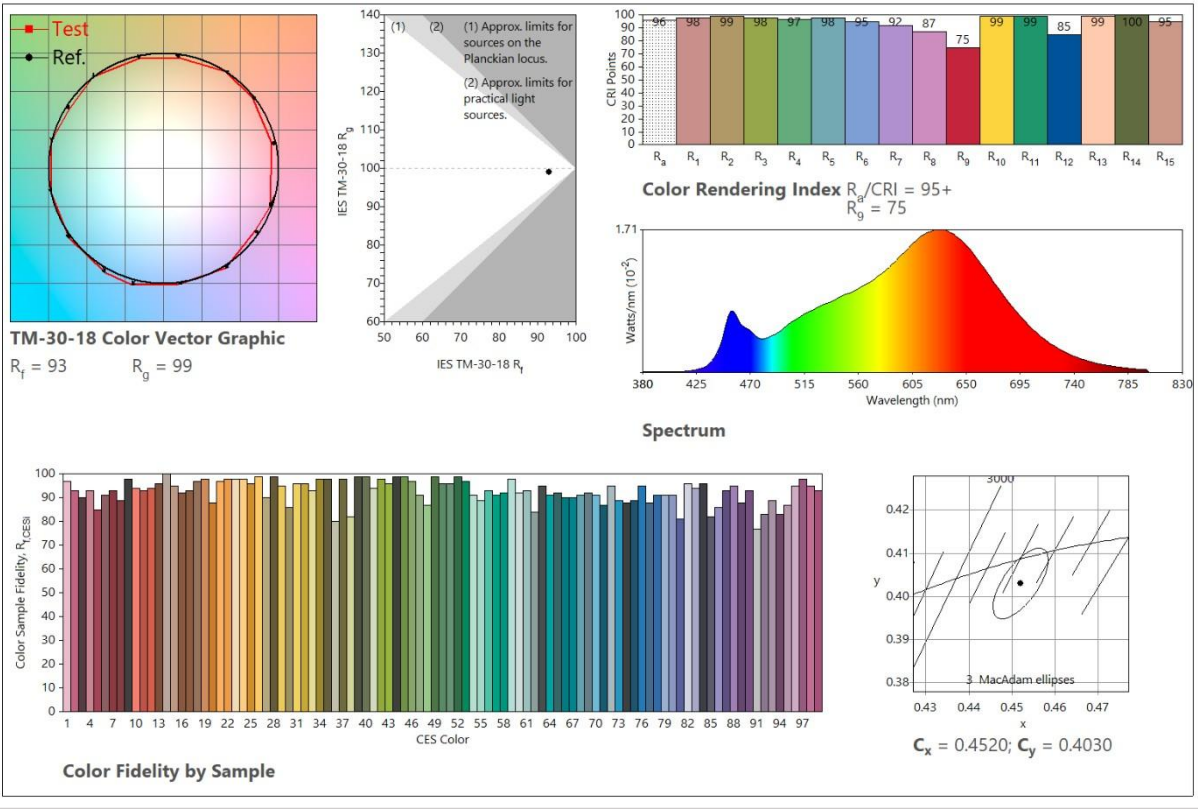
- **a:** Ch1=100%, Ch2 OFF
- **b:** Ch1=50%, Ch2=50%
- **c:** Ch1 OFF, Ch2=100%

Color output data – both channels 50% ON

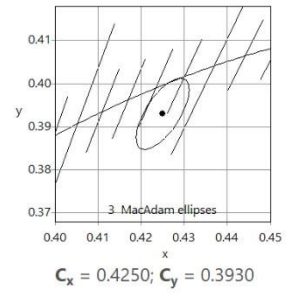
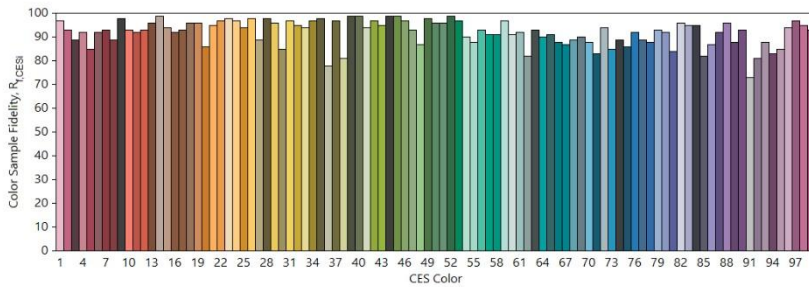
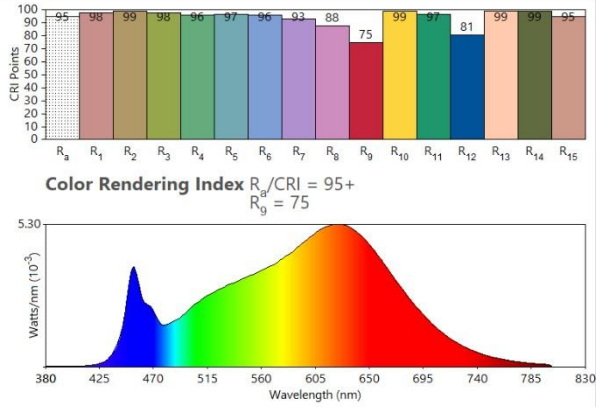
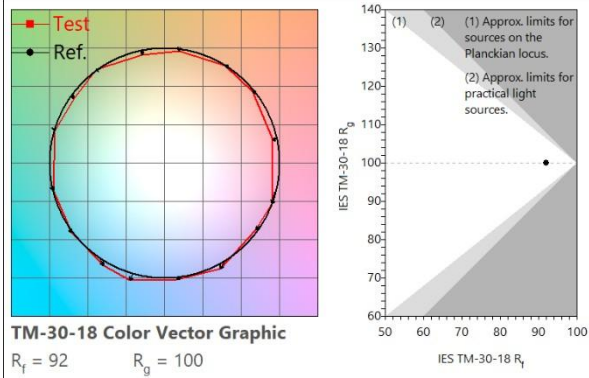
LF1100TW-G5-922.935-09 L2



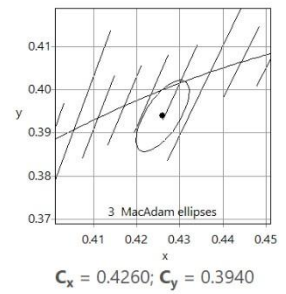
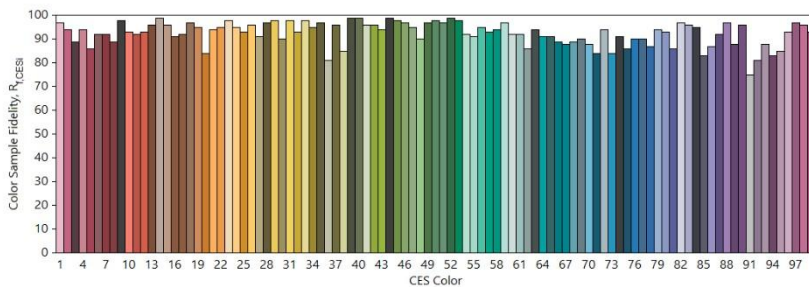
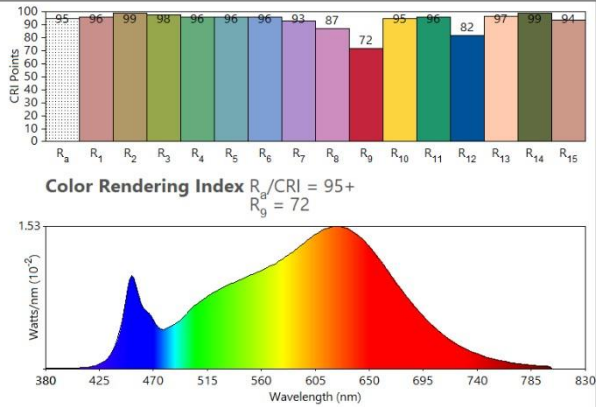
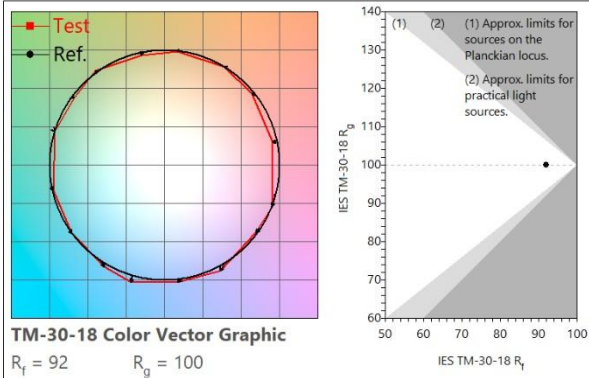
LF3400TW-G5-922.935-03 L1



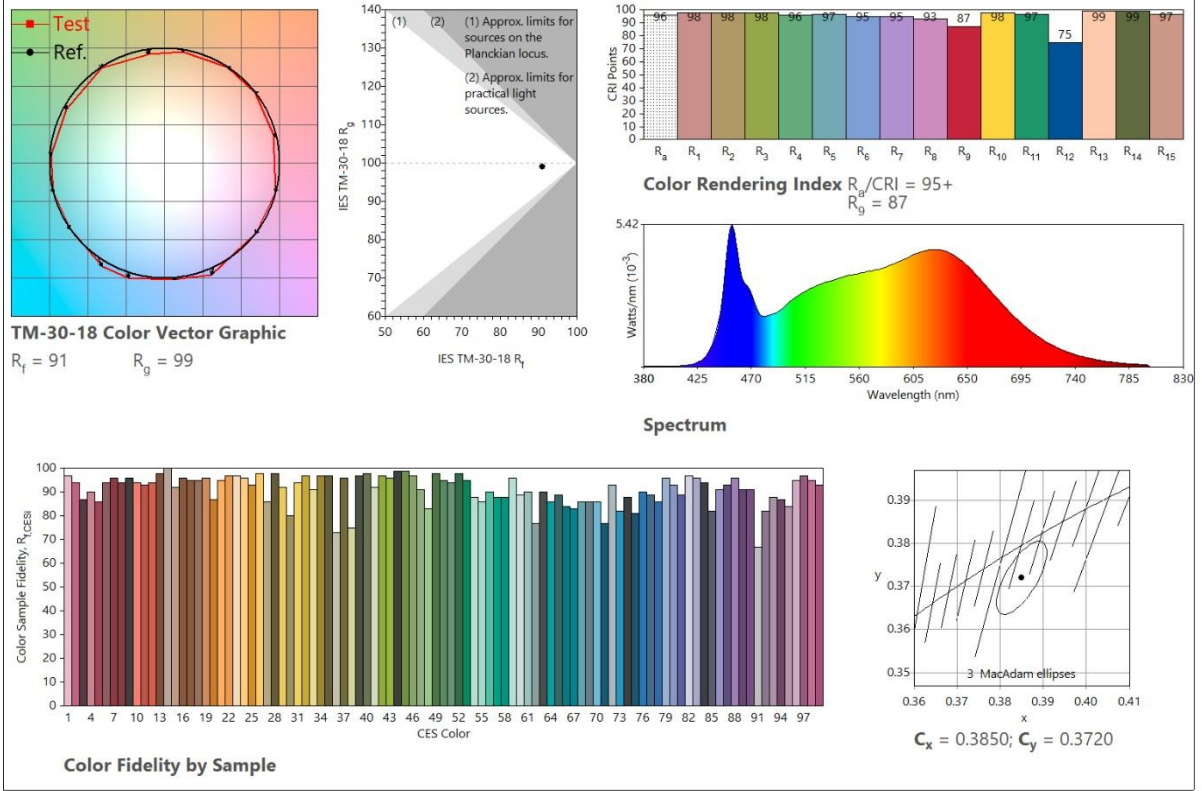
LF1100TW-G5-925.940-09 L2



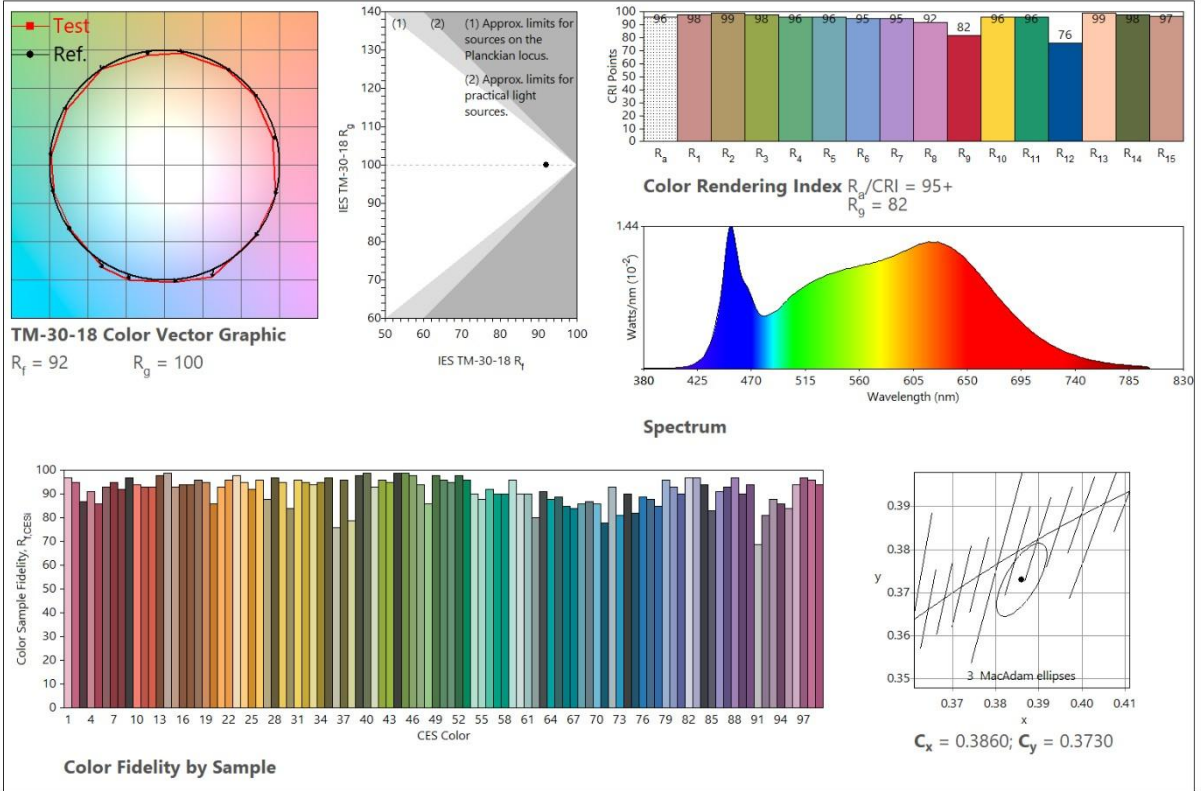
LF3400TW-G5-925.940-03 L1



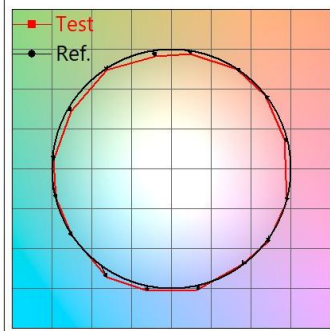
LF1100TW-G5-927.957-09 L2



LF3400TW-G5-927.957-03 L1

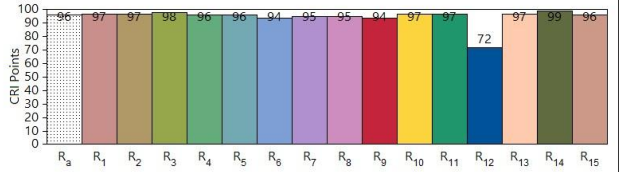
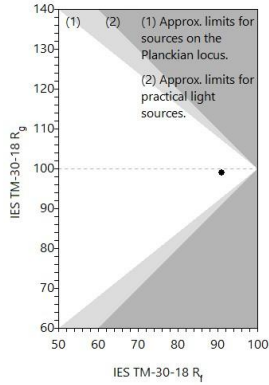


LF1100TW-G5-927.965-09 L2

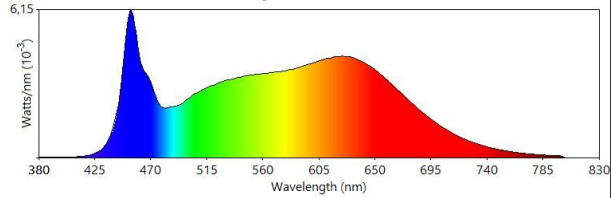


TM-30-18 Color Vector Graphic

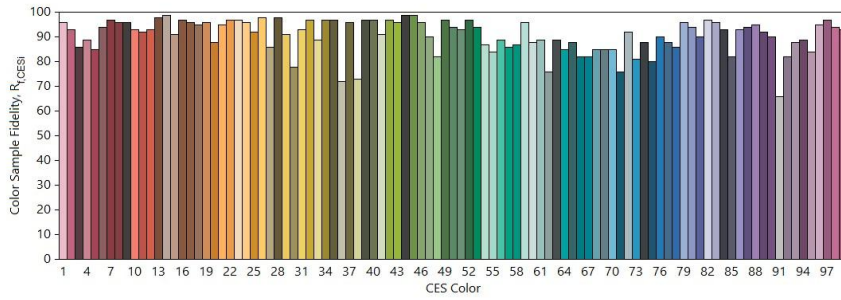
$R_f = 91$ $R_g = 99$



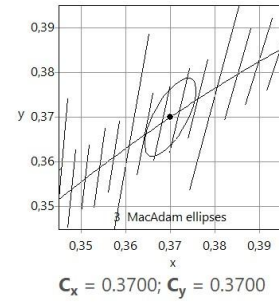
Color Rendering Index $R_a/CRI = 95+$
 $R_g = 94$



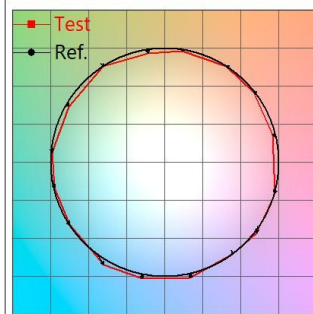
Spectrum



Color Fidelity by Sample

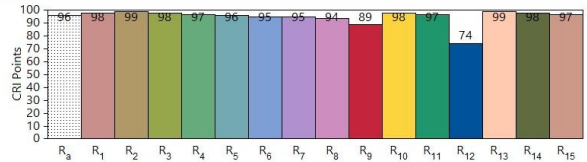
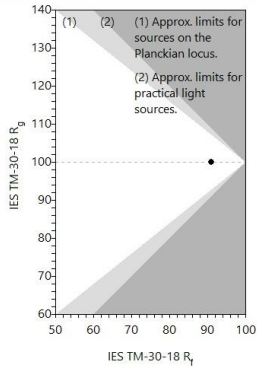


LF3400TW-G5-927.965-03 L1

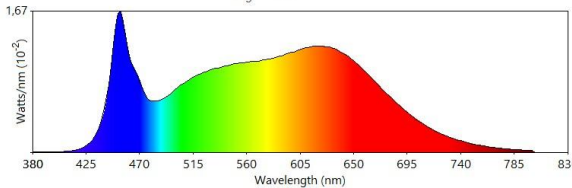


TM-30-18 Color Vector Graphic

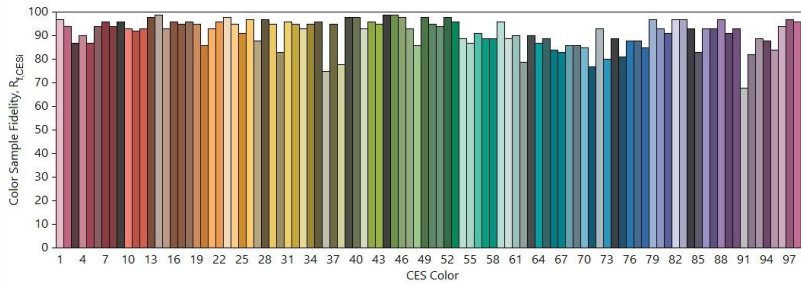
$R_f = 91$ $R_g = 100$



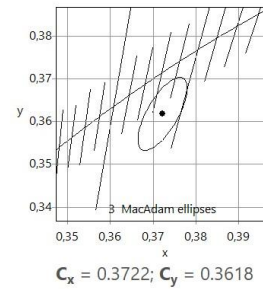
Color Rendering Index $R_a/CRI = 95+$
 $R_g = 89$



Spectrum

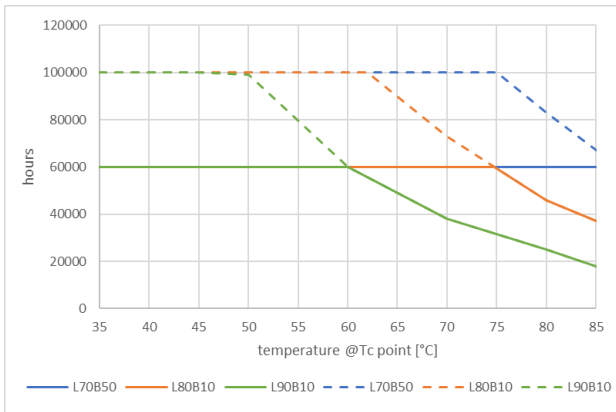


Color Fidelity by Sample

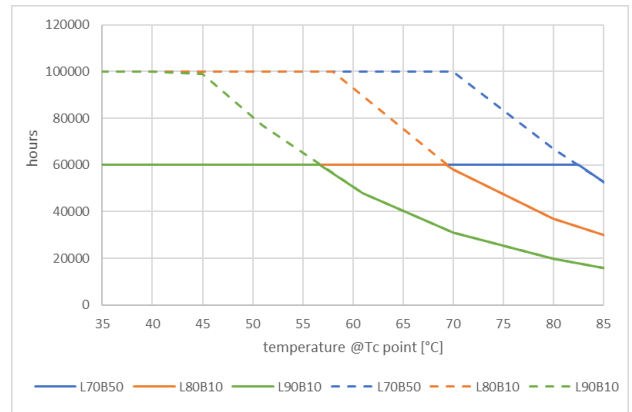


Lifetime charts

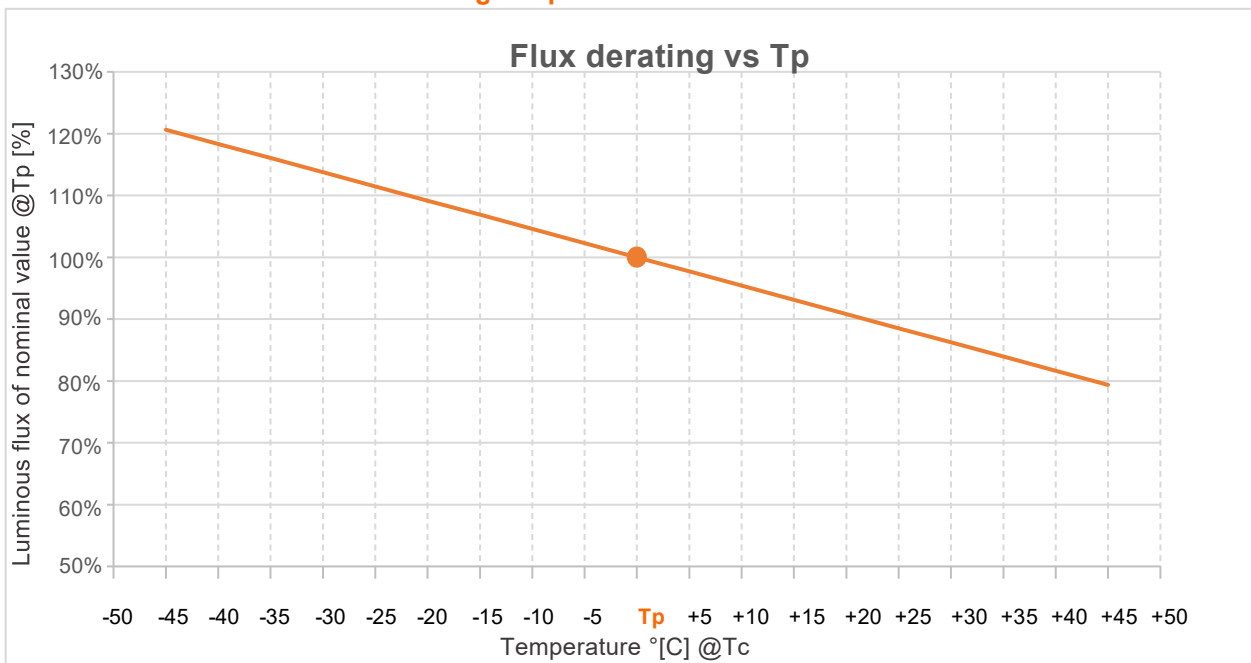
LF1100TW



LF3400TW

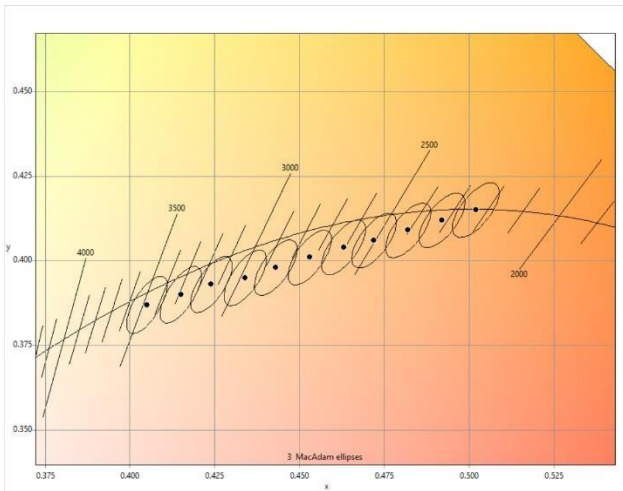
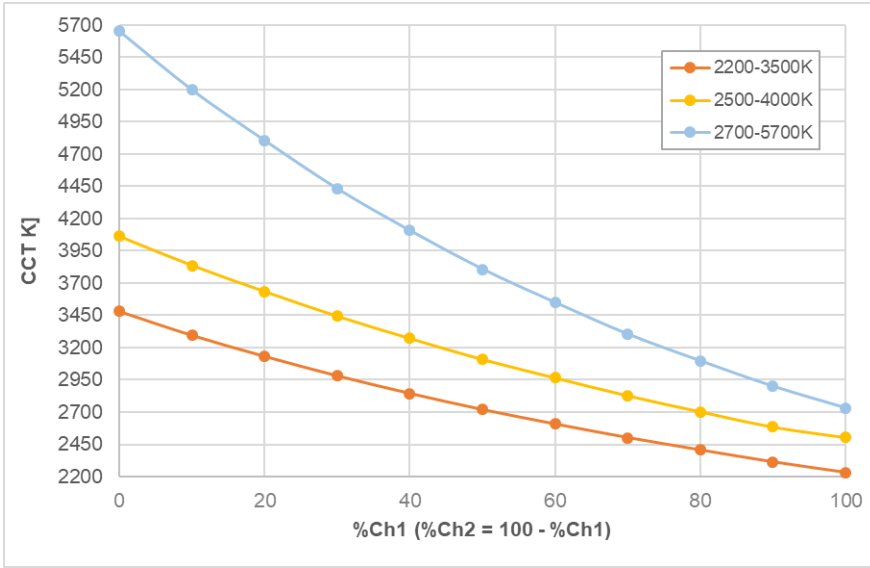


Luminous Flux maintenance according to Tp value

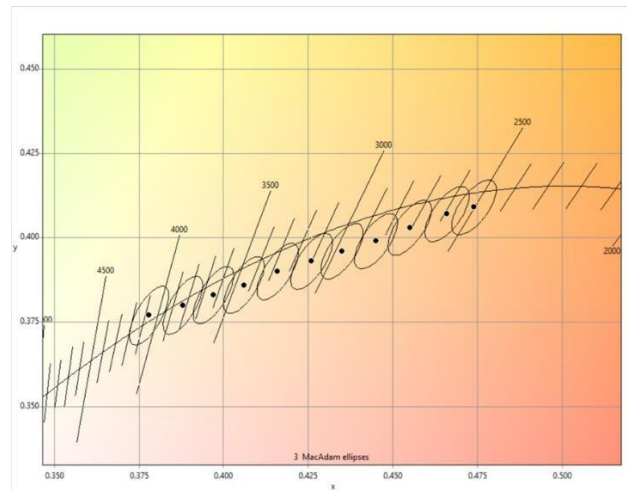


Note: Light flux varies with the temperature measured @Tc point; nominal values is given @Tc = Tp. Flux increases when Tc decreases.

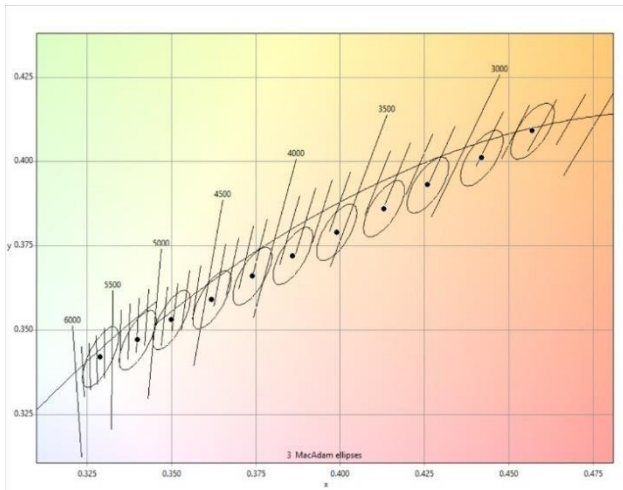
Color Mixing



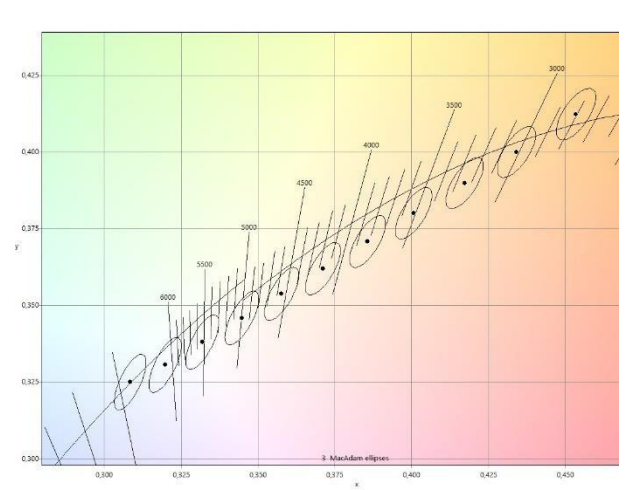
LFxx00TW-G5-922.935



LFxx00TW-G5-925.940



LFxx00TW-G5-927.957







LFxx00TW-G5-927.965

Packaging content

Product description	Product code	EAN10 Package content
LF1100TW-G5-922.935-09 L2	6937186129505	1x Led strip both ends with pre-soldered wires
LF1100TW-G5-925.940-09 L2	6937186152596	1x Led strip both ends with pre-soldered wires
LF1100TW-G5-927.957-09 L2	6937186152633	1x Led strip both ends with pre-soldered wires
LF1100TW-G5-927.965-09 L2	6937186129543	1x Led strip both ends with pre-soldered wires
LF3400TW-G5-922.935-03 L1	6937186138491	1x Led strip one end with pre-soldered wire
LF3400TW-G5-925.940-03 L1	6937186129420	1x Led strip one end with pre-soldered wire
LF3400TW-G5-927.957-03 L1	6937186129406	1x Led strip one end with pre-soldered wire
LF3400TW-G5-927.965-03 L1	6937186129529	1x Led strip one end with pre-soldered wire

Optional Accessories

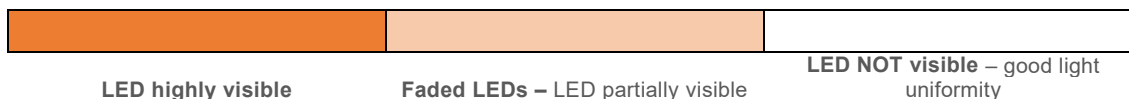
Product Type	Product description	Product code (EAN10)	EAN10 Package content
 3pin Connector 500mm cable	CONN-FLEX-3P-050 KIT 10PCS	6937186141125	10x Connectors
 3pin Connector 2000mm cable	CONN-FLEX-3P-200 KIT 10PCS	6937186141149	10x Connectors
 Bridge 30 mm cable	CORNER-FLEX-4P-003 KIT 10PCS	6937186141262	10 x Bridges
 Bridge 150 mm cable	CORNER-FLEX-4P-015 KIT 10PCS	6937186141286	10 x Bridges

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:



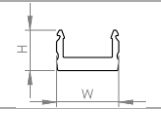
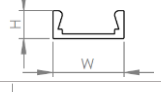
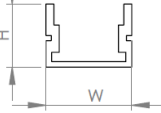
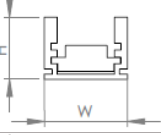
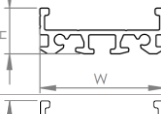
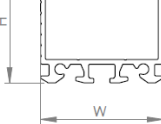
- **OPTICAL PERFORMANCES - OPTICAL EFFICIENCY:** it represents, in percentage, the amount of light lost due to the system used. If the percentage is not available, it means that the cover does not exist or cannot be used

Eg: LF1100TW-G5-922.935-09 L2+ LTS-SLIMTRACK-2000 + cover transparent

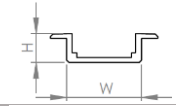
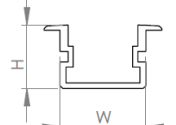
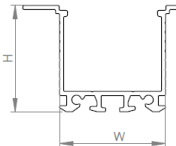
$$1111\text{lm/m} \times (-20\%) = 640\text{lm/m}$$

889lm/m is the lumen output outside the system

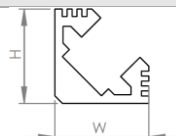
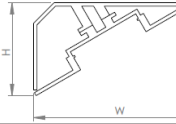
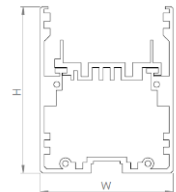
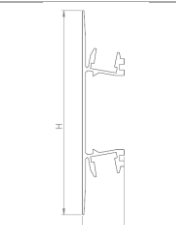
SURFACE INSTALLATION

Track Type	Dimension WxH	Product description	Max Tamb [°C]				OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)		
			LF1100TW DT6	LF1100TW DT8	LF3400TW DT6	LF3400TW DT8	Flat Cover	Flat Cover	Round Cover
							Transparent	Frosted or Opal	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	50°C	30°C	50°C	-15%	-40%	--
	16x12 mm	FX-QMS-G1-TU16H12-300 EAN:6937186126740	50°C	50°C	35°C	50°C	-24%	-45%	--
	16x12 mm	FX-QMS-G1-TU16H12LS-300 EAN:6937186148421	50°C	50°C	35°C	50°C	--	--	-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	45°C	50°C	--	-55%	-50%

RECESSED 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	Round Cover
	15x6 mm	FX-QMS-G2-TU15H6W3-300 EAN:6937186126702	50°C	50°C	30°C	50°C	-15%	-40%	--		
	16x12 mm	FX-QMS-G1-TU16H12W3-300 EAN:6937186146229	50°C	50°C	35°C	50°C	-24%	-45%	--		
	26x25 mm	FX-QMW-G2-TU26H25W10-200 EAN: 6937186126801	50°C	50°C	45°C	50°C	--	-55%	-50%		

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	Round Cover
	19x19 mm	FX-QMS-G2-T45D19H19-300 EAN:6937186131706	50°C	50°C	35°C	50°C	-38%	-57%	--		
	46 x 27 mm	FX-QMW-G1-TK30D46H27-300 EAN:6937186148407	50°C	50°C	40°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	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	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 **LF1100TW-G5-927.965-09 L2 – 88.2W**

Product name	Product description	EAN 10
OT SLIM 100/220-240/24+ OT DMX DIM 5CH	DMX	6977770438736 + 6977078993838
OT WI 160/220-240/24 2CH CA	Bluetooth – Casambi	6937186115218
OTi DALI 160/220-240/ 24 2CH DT6/8 G3	DALI	6977770431928

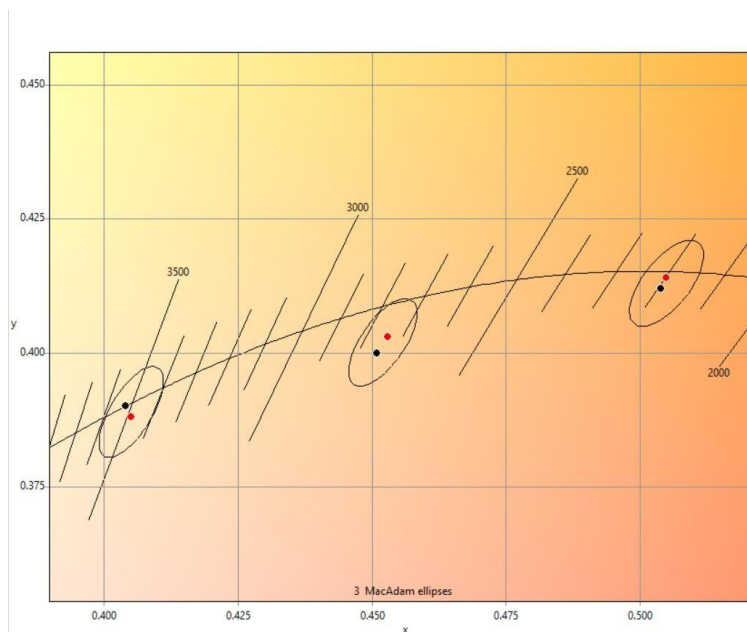
Disclaimer

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>

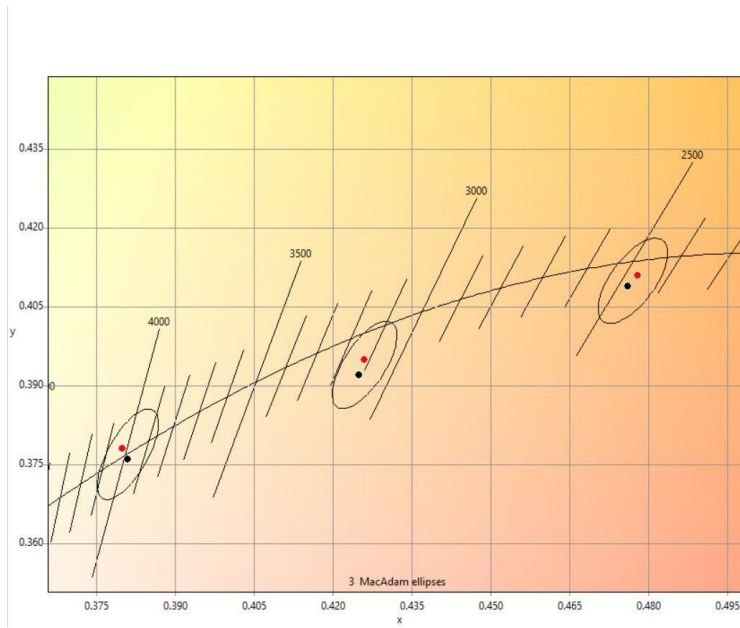
** The color uniformity shown is a result of internal theoretical and statistical evaluation under specific conditions; it is intended to provide our customers with an estimation of color uniformity in real applications. Despite LEDs used in INVENTRONICS strips are single BIN 3 SDCM ellipse, their careful 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.

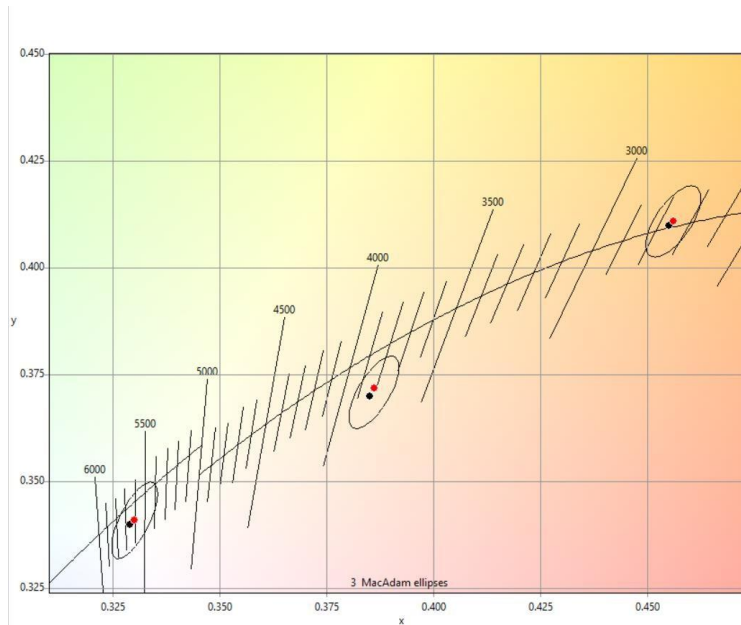
Note regarding the cold channel CCTs: average CCT centers of all four power versions stay within a 3 SDCM ellipse, thus no visible difference between them according to the Mac Adam's studies.



LFxx00TW-G5-922.935



LFx00TW-G5-925.940



LFx00TW-G5-927.957

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