



LINEARlight[®] FLEX Uniformity – IP00

Precision lighting engineered for design excellence.

LF800S-G5 / LF1200S-G5 / LF2000S-G5

Features & Benefits

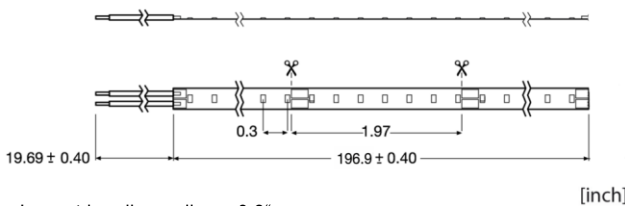


- Flexible and cuttable LED strip up to 1,97"
- Luminous flux: up to 610 lm/ft
- High color fidelity with CRI 95+, 90+ and 80+ for premium design.
- LEDs per foot: 36 led/ft
- Outstanding color uniformity ≤ 2 SDCM for consistent, seamless lighting.
- Dot-free illumination even in ultra-shallow profiles.
- 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.
- 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.
- IP 20
- Pre-soldered wires and optional Connection System for quick setup.
- Proudly Made in Italy with advanced engineering and premium materials.

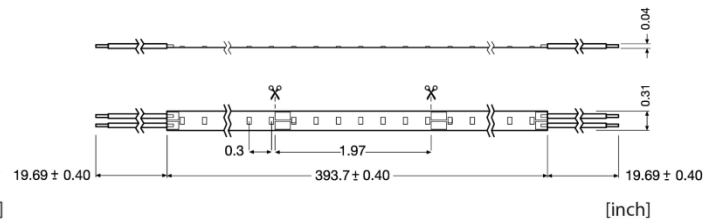


Technical drawings

LF1200S...05 L1 / LF2000S...05 L1



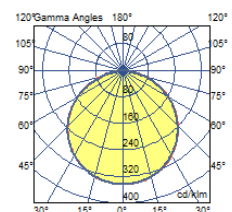
LF800S...10 L2 / LF1200S...10 L2



Lowest bending radius = 0.8"

Max. operable length = product length.

Nominal Voltage	24.0 V
Reverse voltage protection up to	25 V
Temperature range in operation @ Tc point	-22 °F...+185 °F
Storage Temperature	-40 °F...+185 °F
Ambient Temperature with profile *	-22 °F...+122 °F



Technical data

CRI 80+	Nominal CCT <small>See color output data</small>	Luminous Flux lm/ft.	Power W/ft.	Luminous Efficacy lm/W	Order Code	Length ft.
LF800S-G5-825-10 L2	2500 K	244	2,0	119	6937186129222	32.8
LF800S-G5-827-10 L2	2700 K	244	1,9	127	6937186129246	32.8
LF800S-G5-830-10 L2	3000 K	247	1,8	135	6937186129260	32.8
LF800S-G5-840-10 L2	4000 K	247	1,8	135	6937186129284	32.8
LF1200S-G5-825-10 L2	2500 K	366	3,0	122	6937186128805	32.8
LF1200S-G5-827-10 L2	2700 K	366	2,8	130	6937186128829	32.8
LF1200S-G5-830-10 L2	3000 K	366	2,6	140	6937186128843	32.8
LF1200S-G5-840-10 L2	4000 K	366	2,6	140	6937186128867	32.8
LF2000S-G5-825-05 L1	2500 K	610	5,3	116	6937186128928	16.4
LF2000S-G5-827-05 L1	2700 K	610	4,9	125	6937186128942	16.4
LF2000S-G5-830-05 L1	3000 K	610	4,5	137	6937186128966	16.4
LF2000S-G5-840-05 L1	4000 K	610	4,5	137	6937186138873	16.4

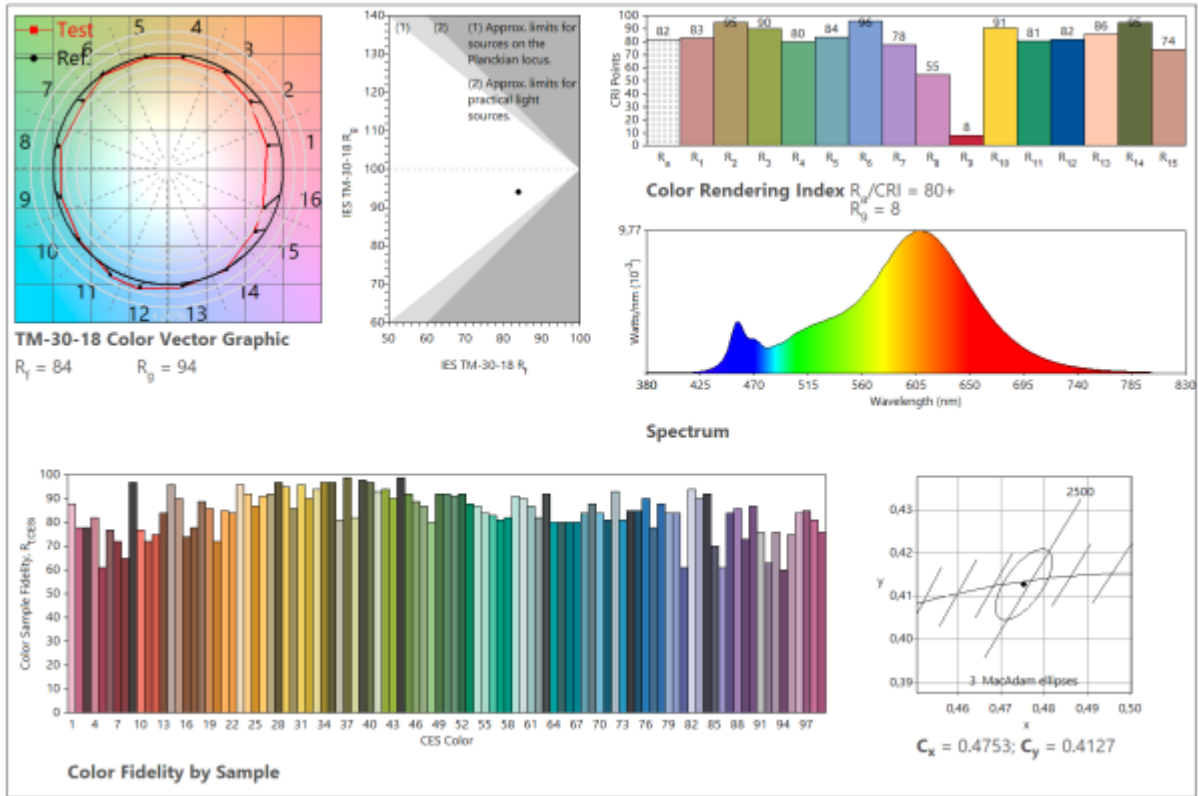
CRI 90+	Nominal CCT <small>See color output data</small>	Luminous Flux lm/ft.	Power W/ft.	Luminous Efficacy lm/W	Order Code	Length ft.
LF800S-G5-925-10 L2	2500 K	244	2,4	107	6937186129307	32.8
LF800S-G5-927-10 L2	2700 K	244	2,3	107	6937186139092	32.8
LF800S-G5-930-10 L2	3000 K	244	2,3	107	6937186129321	32.8
LF800S-G5-940-10 L2	4000 K	244	2,0	119	6937186129345	32.8
LF1200S-G5-925-10 L2	2500 K	366	3,5	103	6937186138897	32.8
LF1200S-G5-927-10 L2	2700 K	366	3,3	110	6937186129024	32.8
LF1200S-G5-930-10 L2	3000 K	366	3,3	110	6937186138910	32.8
LF1200S-G5-940-10 L2	4000 K	366	3,0	121	6937186138934	32.8
LF2000S-G5-925-05 L1	2500 K	610	6,0	102	6937186138958	16.4
LF2000S-G5-927-05 L1	2700 K	610	5,6	108	6937186129062	16.4
LF2000S-G5-930-05 L1	3000 K	610	5,6	108	6937186138972	16.4
LF2000S-G5-940-05 L1	4000 K	610	5,3	116	6937186129109	16.4

CRI 95+	Nominal CCT <small>See color output data</small>	Luminous Flux lm/ft.	Power W/ft.	Luminous Efficacy lm/W	Order Code	Length ft.
LF800S-G5-925R-10 L2	2500 K	244	2,5	96	6937186129369	32.8
LF800S-G5-927R-10 L2	2700 K	244	2,5	96	6937186139115	32.8
LF800S-G5-930R-10 L2	3000 K	244	2,2	110	6937186129383	32.8
LF800S-G5-940R-10 L2	4000 K	244	2,2	110	6937186129383	32.8
LF1200S-G5-925R-05 L1	2500 K	366	3,7	100	6937186138996	16.4
LF1200S-G5-927R-05 L1	2700 K	366	3,7	100	6937186129123	16.4
LF1200S-G5-930R-05 L1	3000 K	366	3,3	110	6937186129147	16.4
LF1200S-G5-940R-05 L1	4000 K	366	3,3	110	6937186139016	16.4
LF2000S-G5-925R-05 L1	2500 K	610	5,9	103	6937186139030	16.4
LF2000S-G5-927R-05 L1	2700 K	610	5,9	103	6937186129185	16.4
LF2000S-G5-930R-05 L1	3000 K	610	5,5	110	6937186139054	16.4
LF2000S-G5-940R-05 L1	4000 K	610	5,5	110	6937186139078	16.4

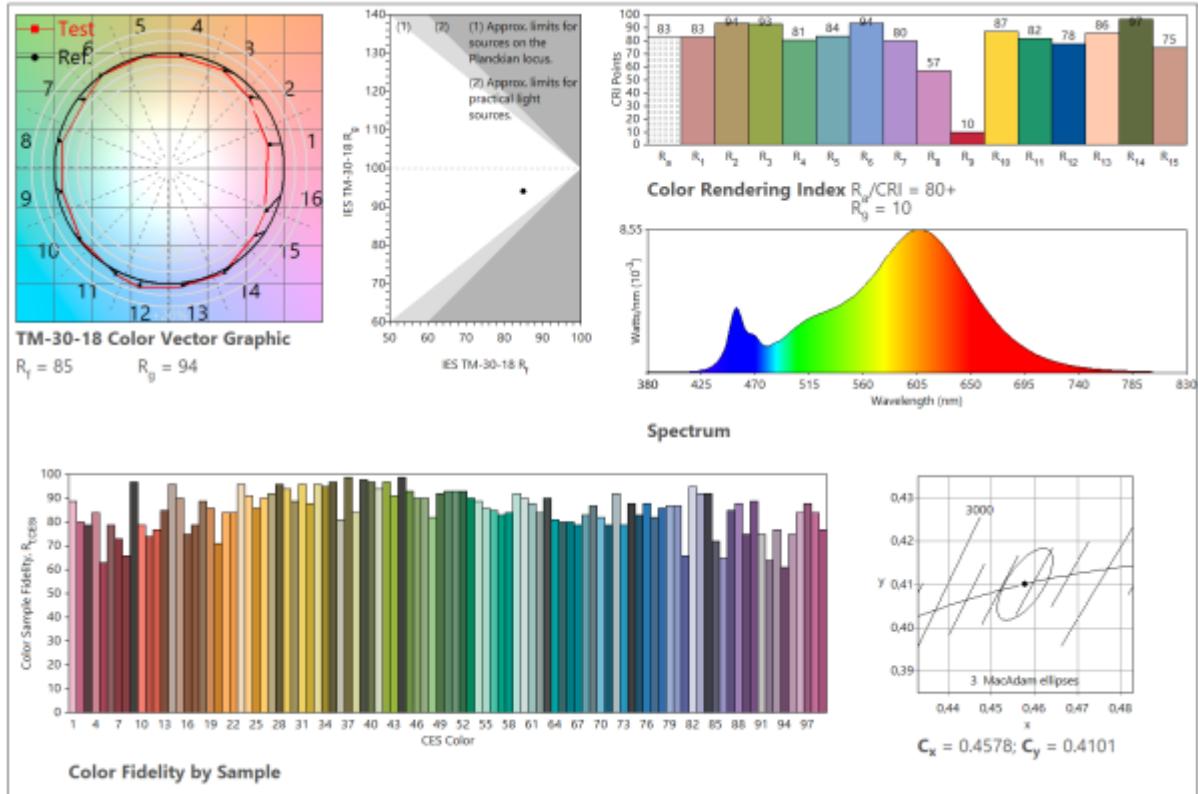
NOTE: all declared values are measured keeping the product Tc point at the Performance temperature Tp here below listed:
 LF800S → Tp = 95°F / LF1200S → Tp = 104°F / LF2000S → Tp = 113°F

Color output data CRI 80+

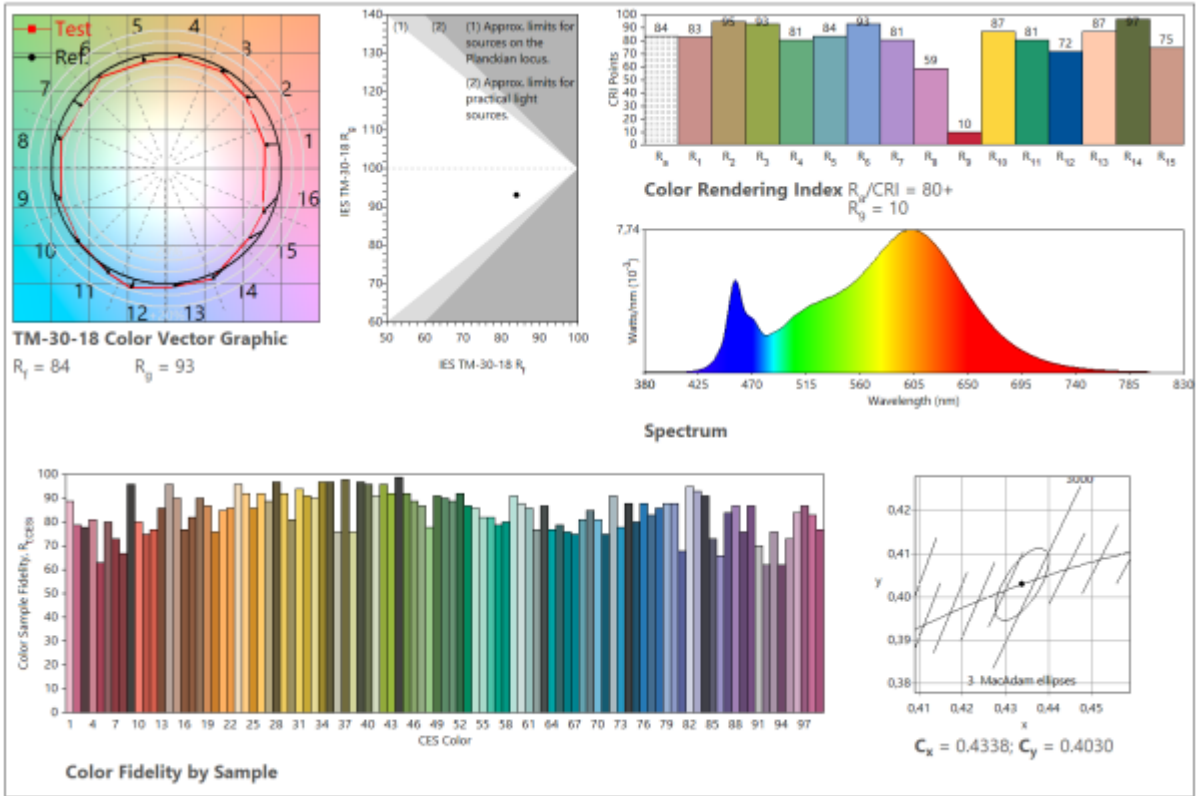
LFxxx00S-G5-825-yy Lz



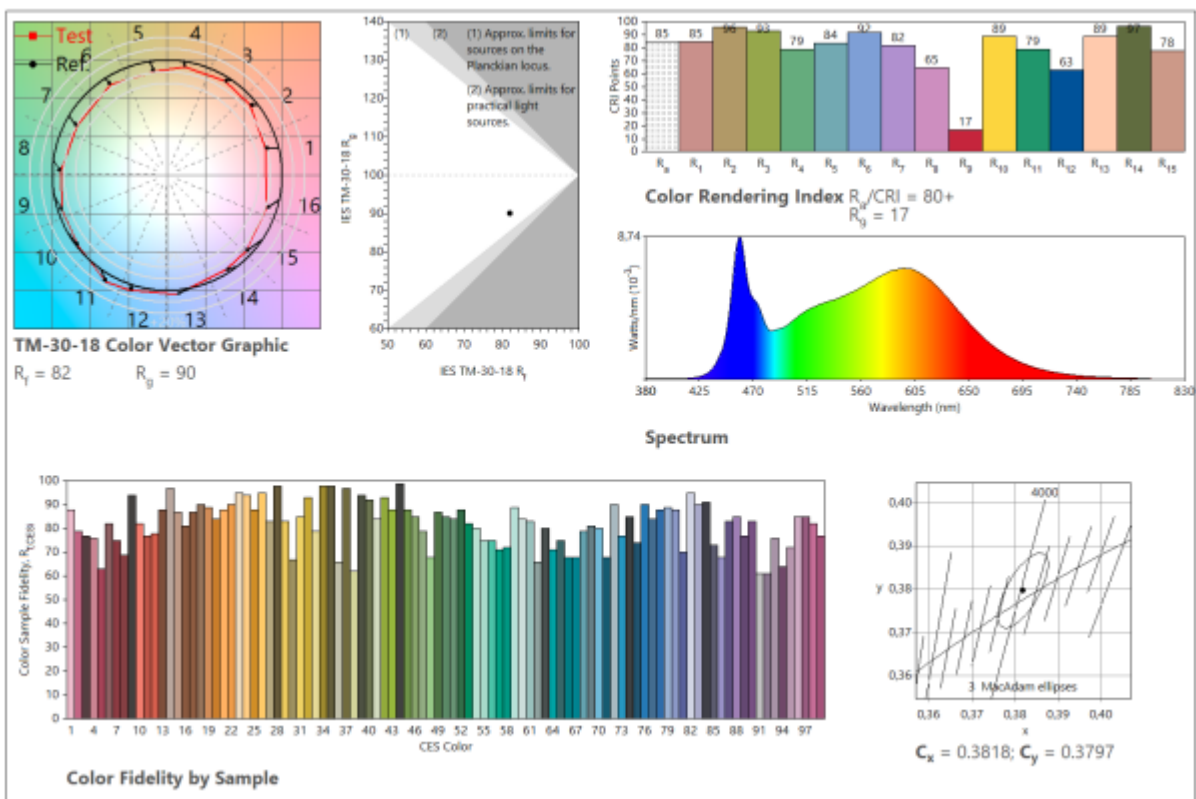
LFxxx00S-G5-827-yy Lz



LFxx00S-G5-830-yy Lz

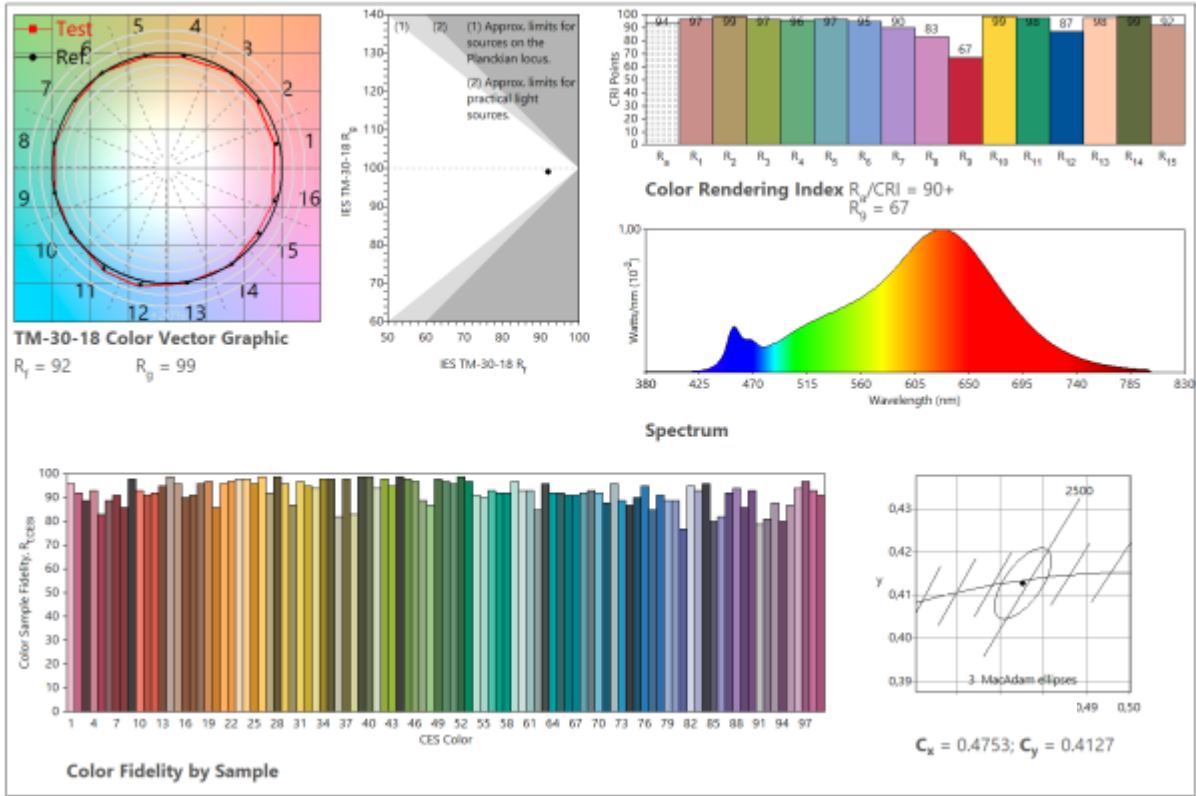


LFxx00S-G5-840-yy Lz

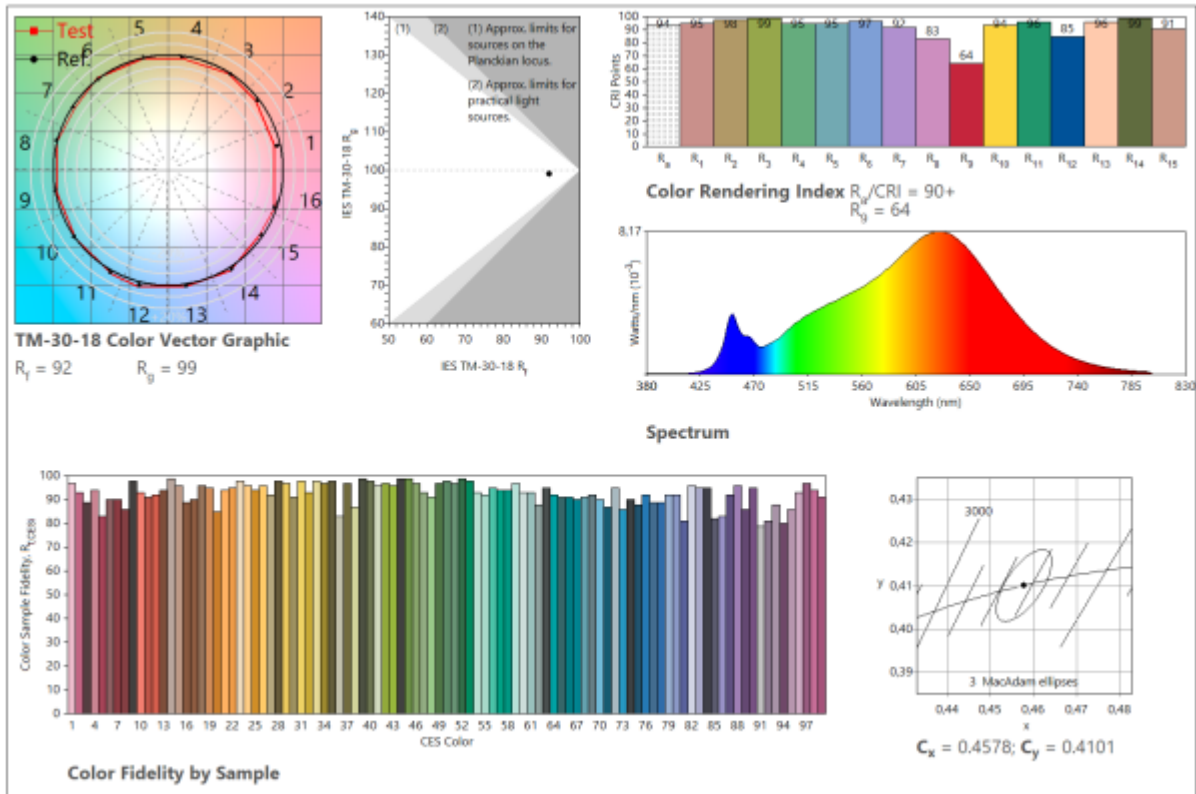


Color output data CRI 90+

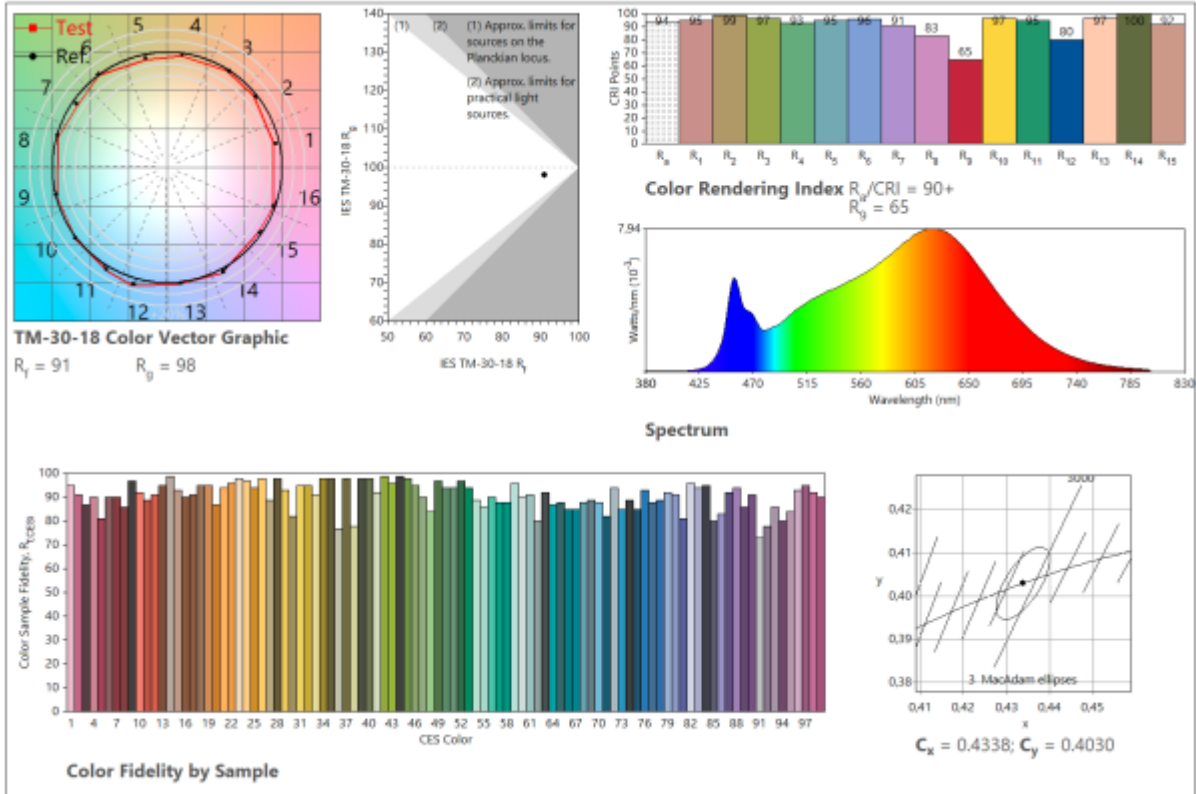
LFxxx00S-G5-925-yy Lz



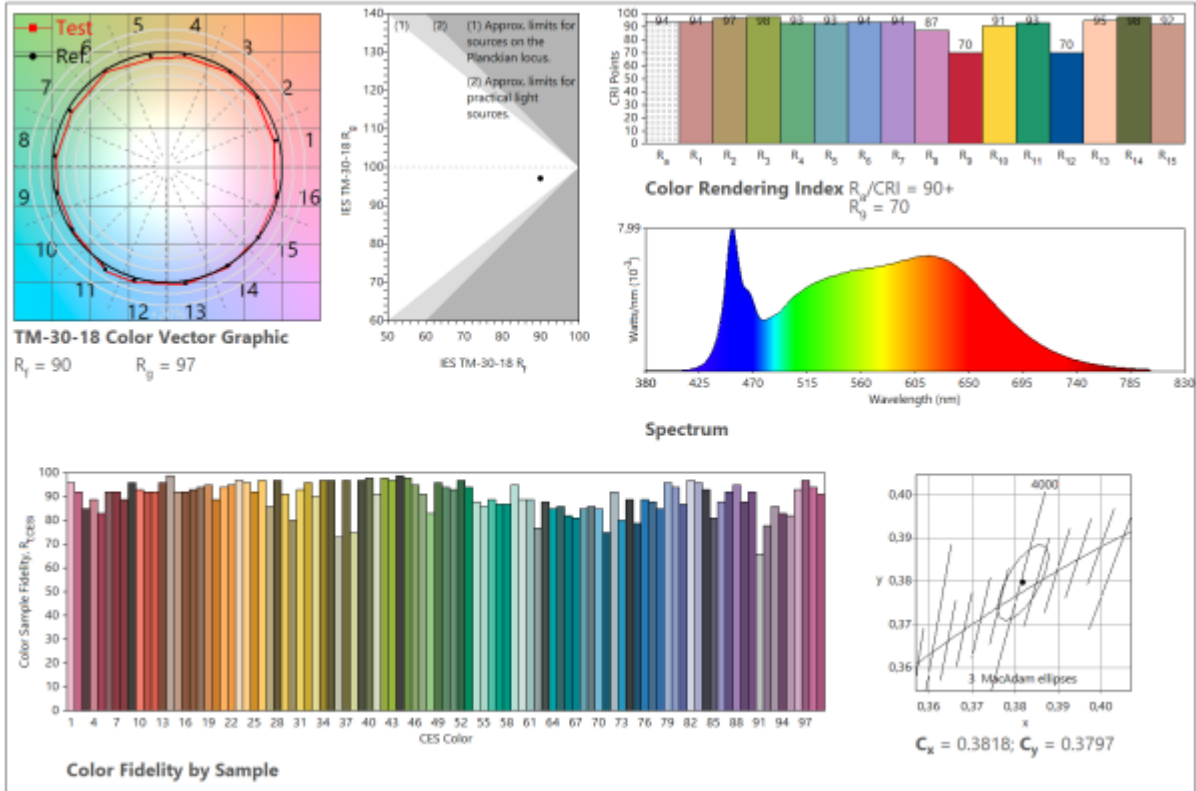
LFxxx00S-G5-927-yy Lz



LFxx00S-G5-930-yy Lz

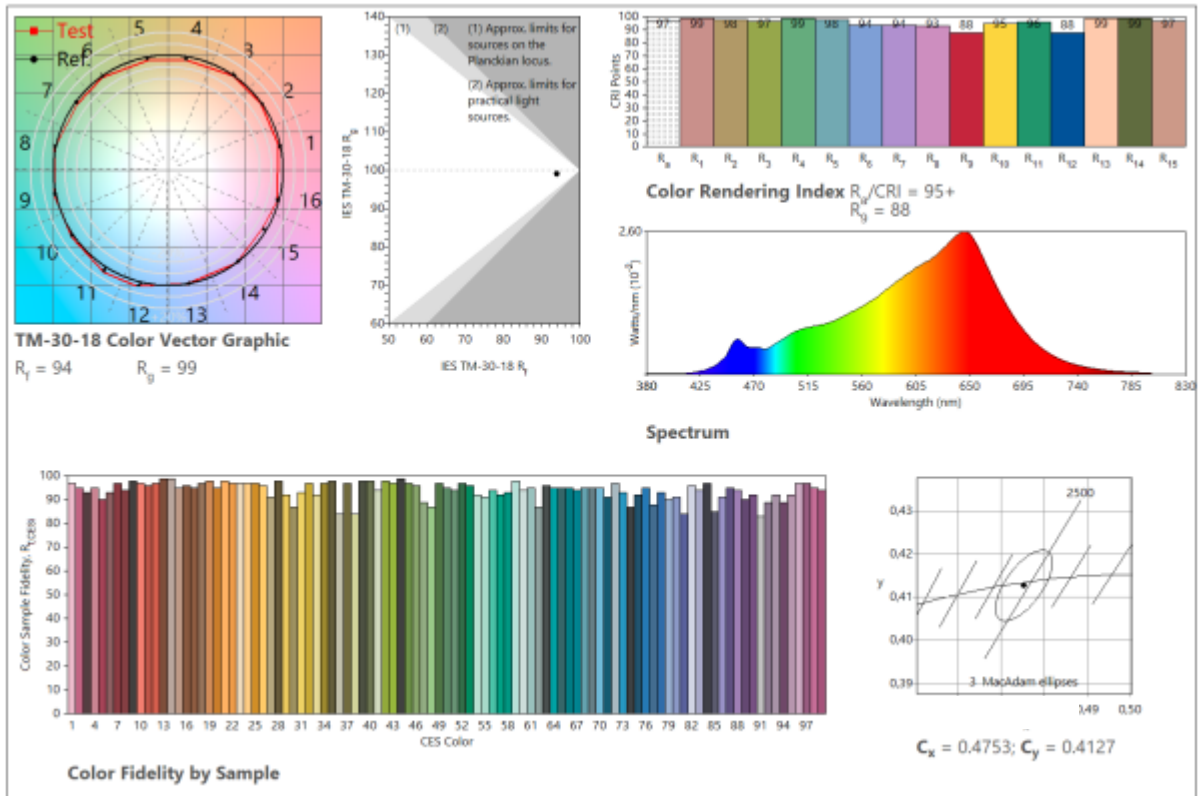


LFxx00S-G5-940-yy Lz

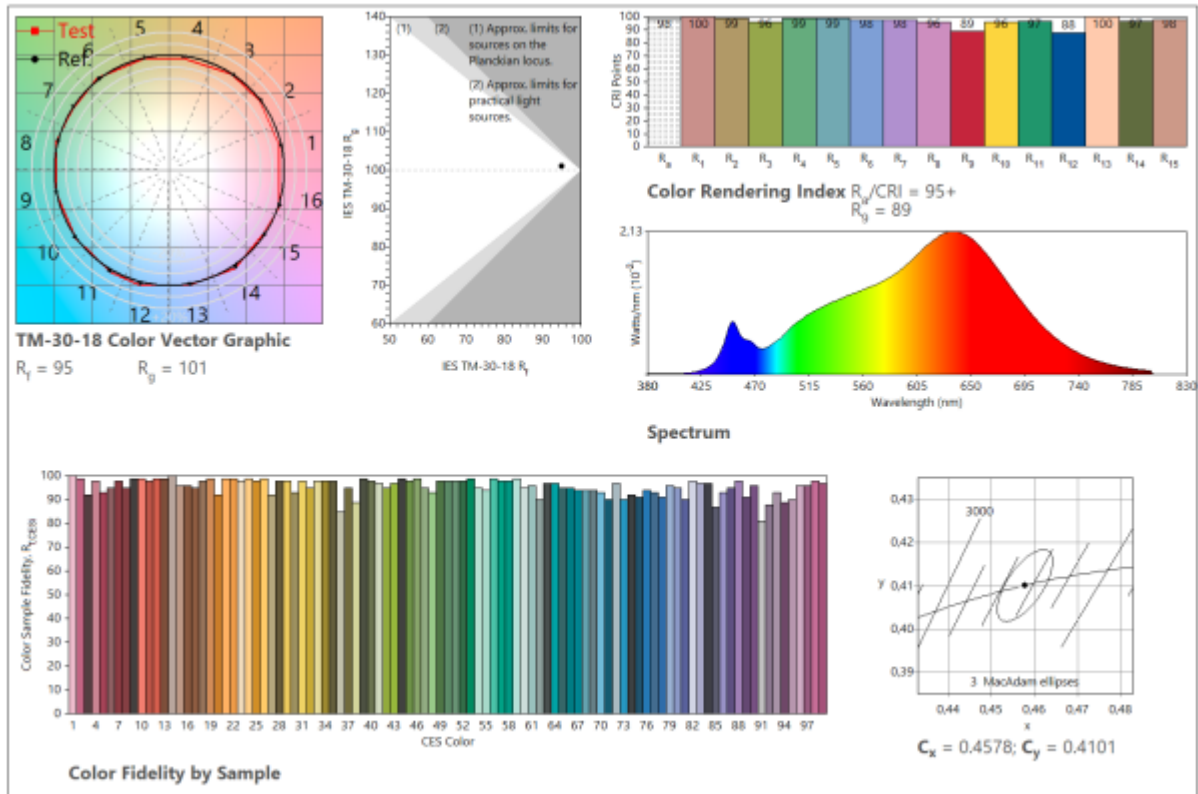


Color output data CRI 95+

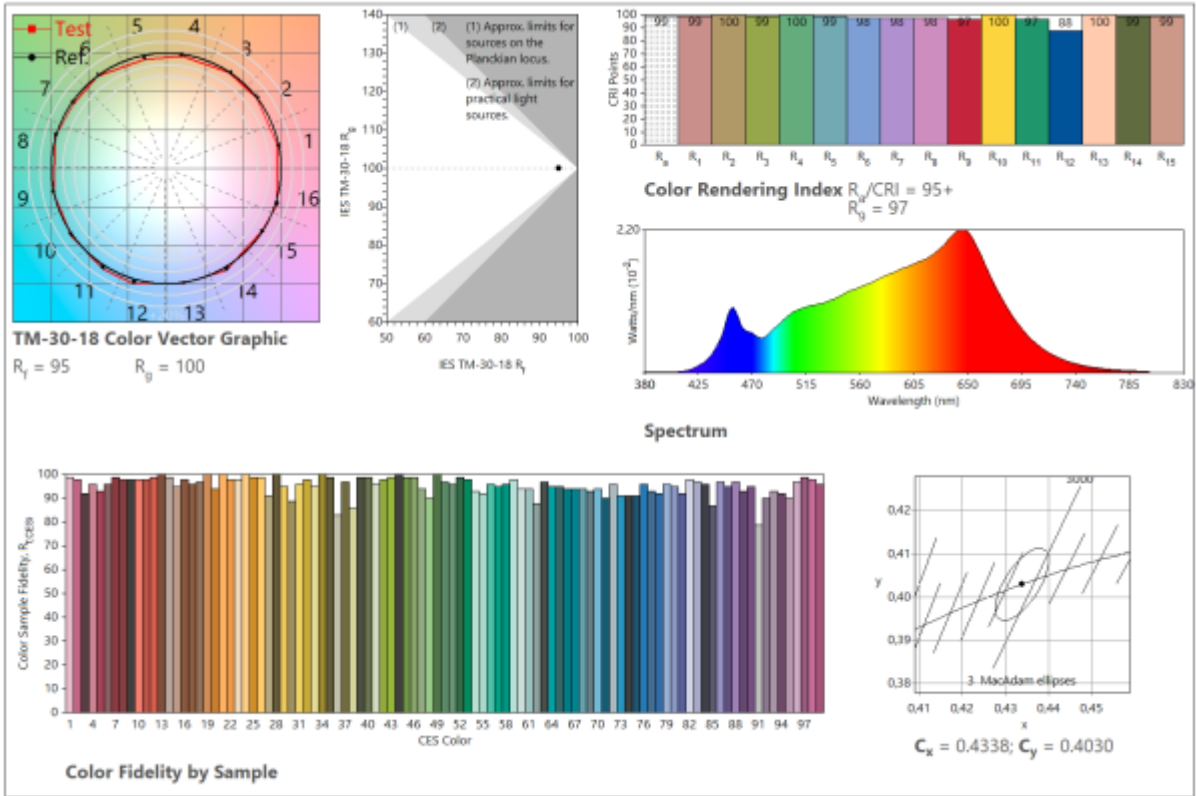
LFxxx00S-G5-925R-yy Lz



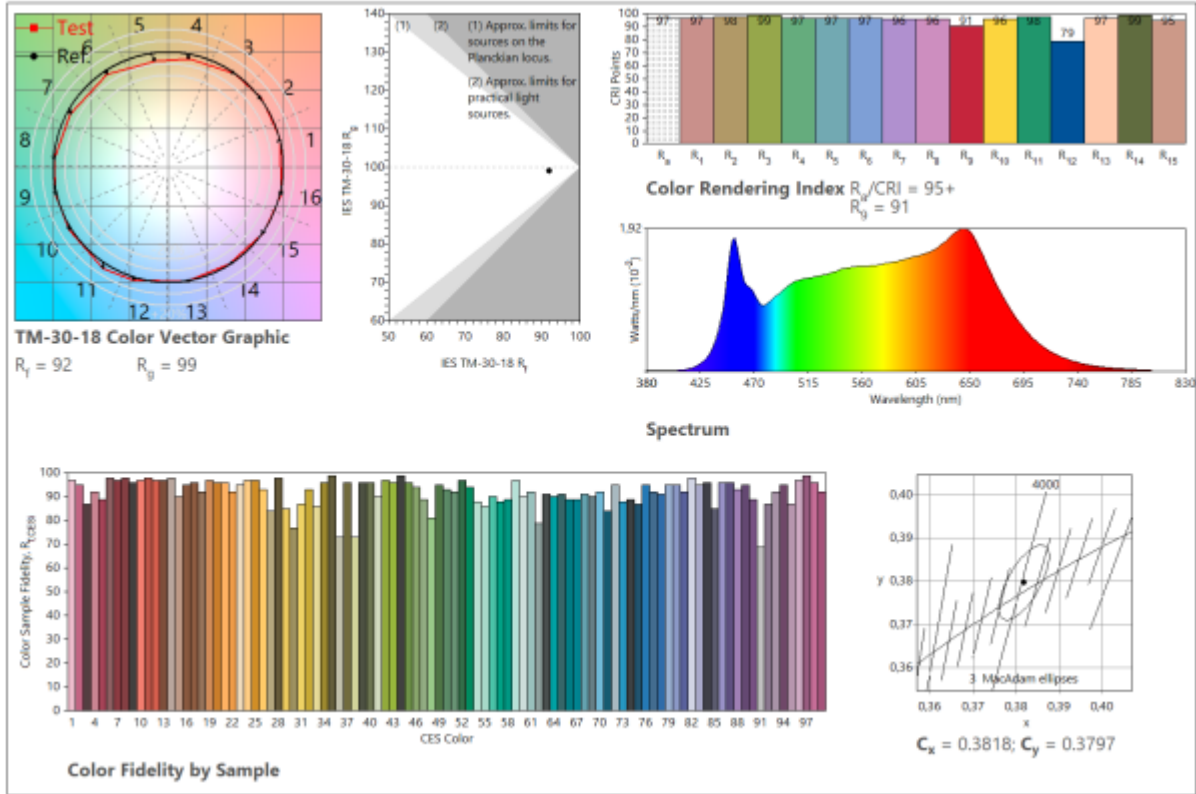
LFxxx00S-G5-927R-yy Lz



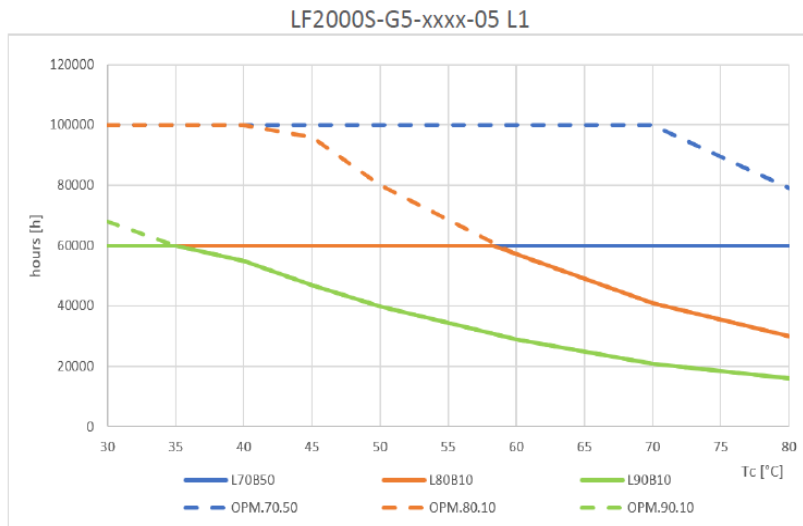
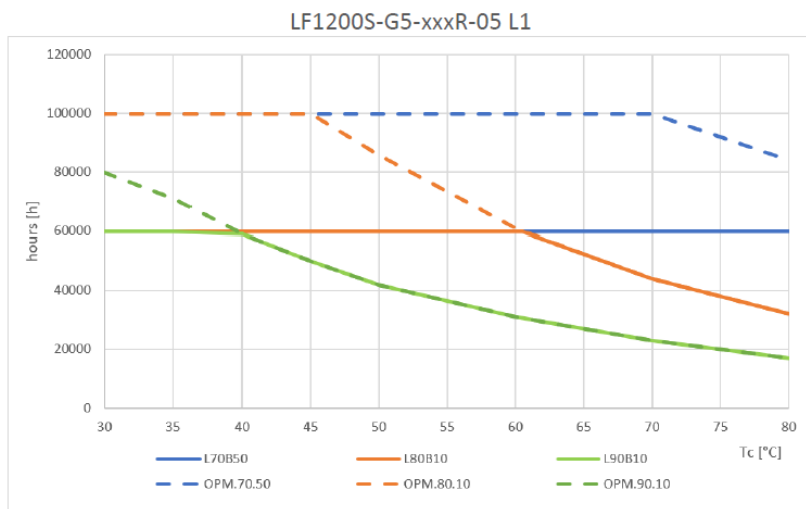
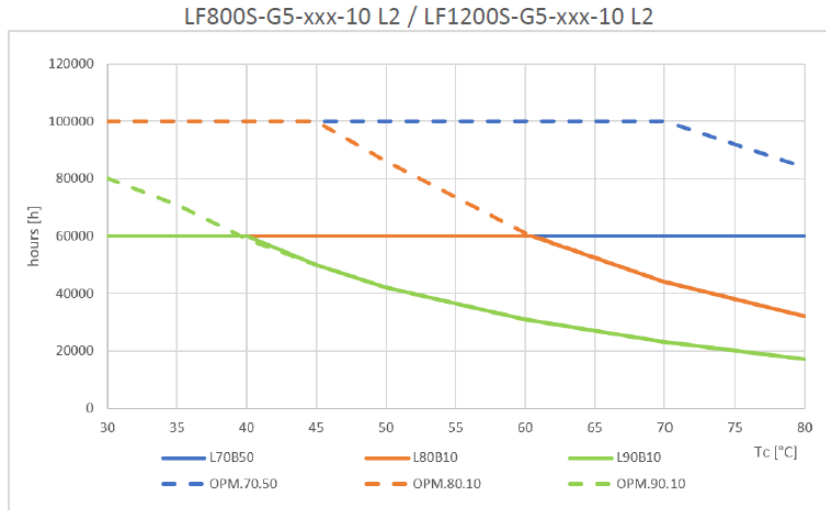
LFxx00S-G5-930R-yy Lz



LFxx00S-G5-940R-yy Lz



Lifetime chart







OPM70.50 / OPM80.10 / OPM90.10: Inventronics Predictive Models based on internal tests and know-how.

Packaging content

Product type	EAN10 Package content
LF800S-G5-xxx-yy L1	1 x Led strip 1x flying leads factory assembled
LF1200S-G5-xxx-yy L1	1 x Led strip 1x flying leads factory assembled
LF2000S-G5-xxx-yy L1	1 x Led strip 1x flying leads factory assembled

Optional Accessories

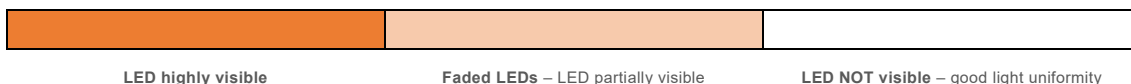
Product Type	Product description	Product code (EAN10)	EAN10 Package content
 2pin Connector 19.7" cable	CONN-FLEX-2P-050 KIT 10PCS	6937186141088	10 x Connectors
 2pin Connector 78.7" cable	CONN-FLEX-2P-200 KIT 10PCS	6937186141101	10 x Connectors
 Bridge 1,2" cable	CORNER-FLEX-4P-003 KIT 10PCS	6937186141262	10 x Bridges
 Bridge 5,9" 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 PERFORMACES - 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 PERFORMACES - 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 can not be used

Eg: LF800S-G5-825-10 L2 + LTS-SLIMTRACK-2000 + cover transparent

244lm/ft. x (-20%) = 195lm/ft
 195lm/ft is the lumen output outside the system

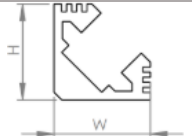
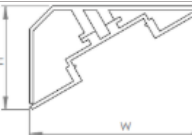
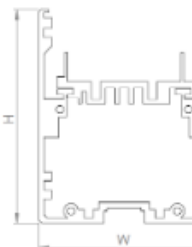
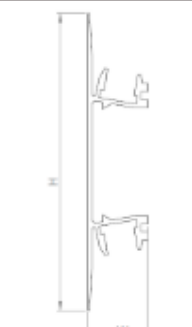
SURFACE INSTALLATION

Track Type	Dimension WxH	Product description	Max Tamb [°F]			OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)		
			LF800S LF1200S LF2000S-830→865	LF2000S-822→827 LF2000S-927→965 LF2000S-9xxR	LF2000S-922→925	Flat Cover Transparent	Flat Cover Frosted or Opal	Round Cover Frosted or lens
	0,6x0,4 inches	LTS-SLIMTRACK-2000 EAN:6937186141200	122 °F	117 °F	107 °F	-20%	-35%	-40%
	0,6x0,23 inches	FX-QMS-G2-TU15H6-300 EAN:6937186130860	122 °F	117 °F	107 °F	-15%	-40%	--
	0,63x0,47 inches	FX-QMS-G1-TU16H12-300 EAN:6937186126740	122 °F	122 °F	113 °F	-24%	-45%	--
	0,63x0,47 inches	FX-QMS-G1-TU16H12LS-300 EAN:6937186148421	122 °F	122 °F	113 °F	--	--	-30%
	1x0,4 inches	FX-QMW-G2-TU26H10-200 EAN: 6937186126849	122 °F	122 °F	113 °F	--	--	-30%
	1x0,9 inches	FX-QMW-G2-TU26H25-200 EAN: 6937186126825	122 °F	122 °F	113 °F	--	-55%	-50%

RECESSED INSTALLATION

Track Type	Dimension WxH	Product description	Max Tamb [°F]			OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)		
			LF800S LF1200S LF2000S-830→865	LF2000S-822→827 LF2000S-927→965 LF2000S-9xxR	LF2000S-922→925	Flat Cover Transparent	Flat Cover Frosted or Opal	Round Cover Frosted or lens
	0,6x0,23 inches	FX-QMS-G2-TU15H6W3-300 EAN:6937186126702	122 °F	95 °F	86 °F	-15%	-40%	--
	0,63x0,47 inches	FX-QMS-G1-TU16H12W3-300 EAN:6937186146229	122 °F	104 °F	98 °F	-24%	-45%	--
	1x0,9 inches	FX-QMW-G2-TU26H25W10-200 EAN: 6937186126801	122 °F	113 °F	104 °F	--	-55%	-50%

SPECIAL INSTALLATION

Track Type	Dimension WxH	Product description	Max Tamb [°F]			OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)		
			LF800S LF1200S LF2000S-830→865	LF2000S-822→827 LF2000S-927→965 LF2000S-9xxR	LF2000S-922→925	Flat Cover Transparent	Flat Cover Frosted or Opal	Round Cover Frosted or lens
	0,75x0,75 inches	FX-QMS-G2-T45D19H19-300 EAN:6937186131706	122 °F	122 °F	117 °F	-38%	-57%	-
	1,8 x 1,1 inches	FX-QMW-G1-TK30D46H27-300 EAN:6937186148407	122 °F	122 °F	122 °F	--	-39%	-43%
	2,2x2,8 inches	FX-QMP-G1-TU56H70-xx-0yy EAN: 6977078997805 6977078997836 6977078997867 6977078997898 6977078997928 6977078997959	122 °F	122 °F	122 °F	--	-32%	-26%
	4,3x0,87 inches	FX-QMR-G1-TT25H110-xx-0yy EAN: 6977078998017 6977078998048 6977078998079 6977078998109 6977078998130 6977078998161	122 °F	122 °F	122 °F	--	-70%	--

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.