inventronics

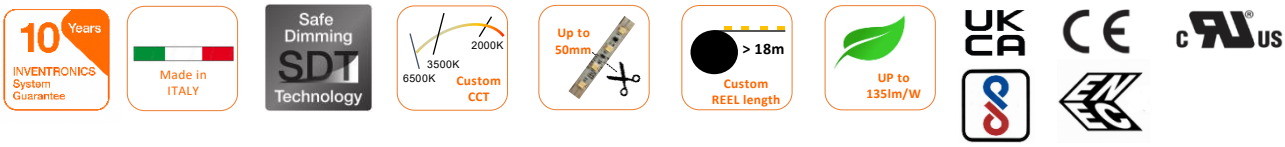
LINEARlight® FLEX Uniformity – IP00

Precision lighting engineered for design excellence.

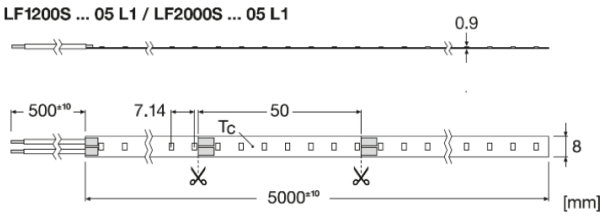
LF800S-G5 / LF1200S-G5 / LF2000S-G5

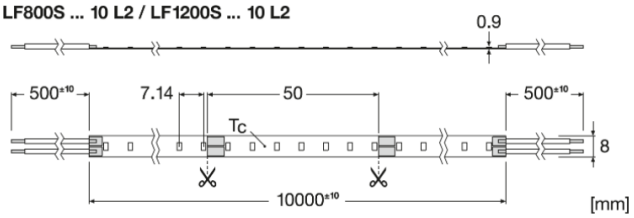
Features & Benefits

- 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.
- 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

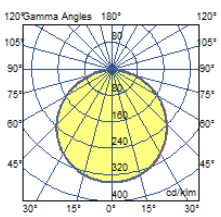




Lowest Bending Radius = 20 mm

Max. operable length = product length, possible extension to be evaluated with installation details.

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



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	LF800S-G5-825-10 L2	2500 K	800	6,7	119	10
	LF800S-G5-827-10 L2	2700 K	800	6,3	127	10
	LF800S-G5-830-10 L2	3000 K	810	6	135	10
	LF800S-G5-840-10 L2	4000 K	810	6	135	10
1200lm/m	LF1200S-G5-825-10 L2	2500 K	1200	9,8	122	10
	LF1200S-G5-827-10 L2	2700 K	1200	9,2	130	10
	LF1200S-G5-830-10 L2	3000 K	1200	8,6	140	10
	LF1200S-G5-840-10 L2	4000 K	1200	8,6	140	10
2000lm/m	LF2000S-G5-825-05 L1	2500 K	2000	17,3	116	5
	LF2000S-G5-827-05 L1	2700 K	2000	16	125	5
	LF2000S-G5-830-05 L1	3000 K	2000	14,6	137	5
	LF2000S-G5-840-05 L1	4000 K	2000	14,6	137	5

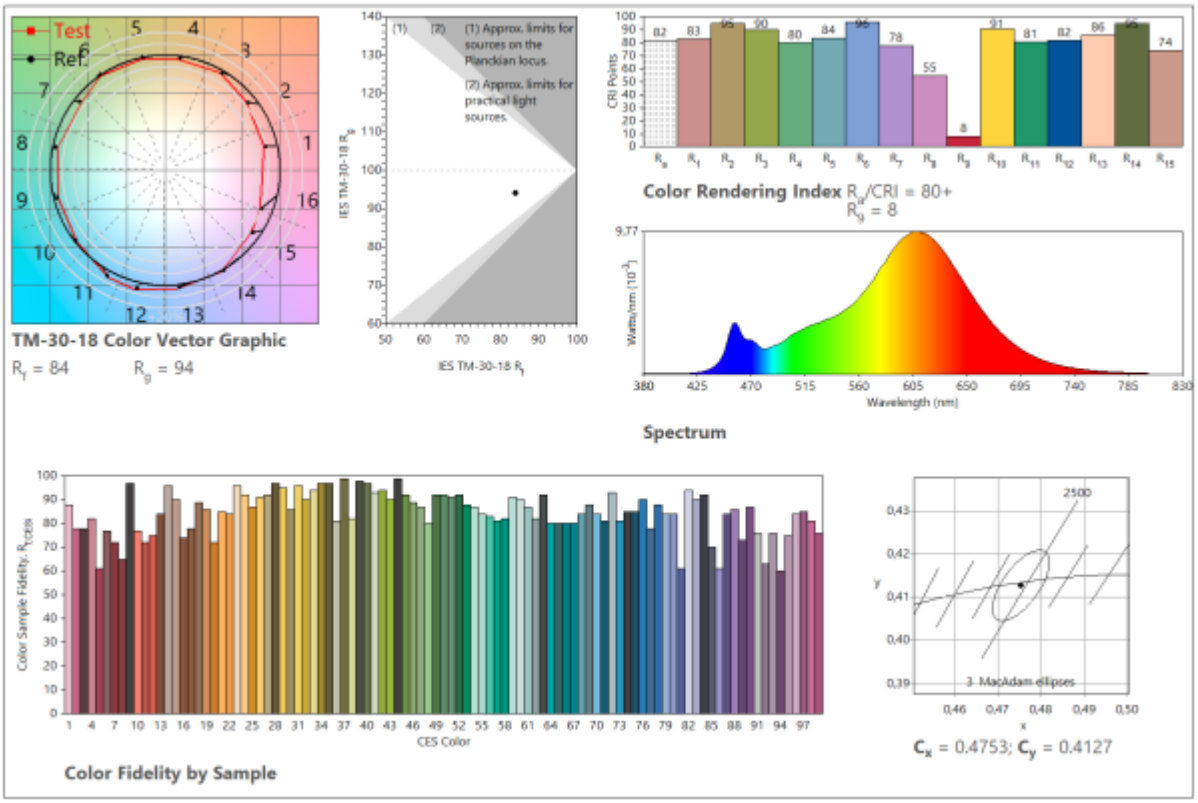
	CRI 90+	Nominal CCT See color output data	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Length m
800lm/m	LF800S-G5-925-10 L2	2500 K	800	8	107	10
	LF800S-G5-927-10 L2	2700 K	800	7,5	107	10
	LF800S-G5-930-10 L2	3000 K	800	7,5	107	10
	LF800S-G5-940-10 L2	4000 K	800	6,7	119	10
1200lm/m	LF1200S-G5-925-10 L2	2500 K	1200	11,6	103	10
	LF1200S-G5-927-10 L2	2700 K	1200	10,9	110	10
	LF1200S-G5-930-10 L2	3000 K	1200	10,9	110	10
	LF1200S-G5-940-10 L2	4000 K	1200	9,9	121	10
2000lm/m	LF2000S-G5-925-05 L1	2500 K	2000	19,6	102	5
	LF2000S-G5-927-05 L1	2700 K	2000	18,5	108	5
	LF2000S-G5-930-05 L1	3000 K	2000	18,5	108	5
	LF2000S-G5-940-05 L1	4000 K	2000	17,3	116	5

	CRI 95+	Nominal CCT See color output data	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Length m
800lm/m	LF800S-G5-925R-10 L2	2500 K	800	8,3	96	10
	LF800S-G5-927R-10 L2	2700 K	800	8,3	96	10
	LF800S-G5-930R-10 L2	3000 K	800	7,3	110	10
	LF800S-G5-940R-10 L2	4000 K	800	7,3	110	10
1200lm/m	LF1200S-G5-925R-05 L1	2500 K	1200	12	100	5
	LF1200S-G5-927R-05 L1	2700 K	1200	12	100	5
	LF1200S-G5-930R-05 L1	3000 K	1200	10,9	110	5
	LF1200S-G5-940R-05 L1	4000 K	1200	10,9	110	5
2000lm/m	LF2000S-G5-925R-05 L1	2500 K	2000	19,5	103	5
	LF2000S-G5-927R-05 L1	2700 K	2000	19,5	103	5
	LF2000S-G5-930R-05 L1	3000 K	2000	18,1	110	5
	LF2000S-G5-940R-05 L1	4000 K	2000	18,1	110	5

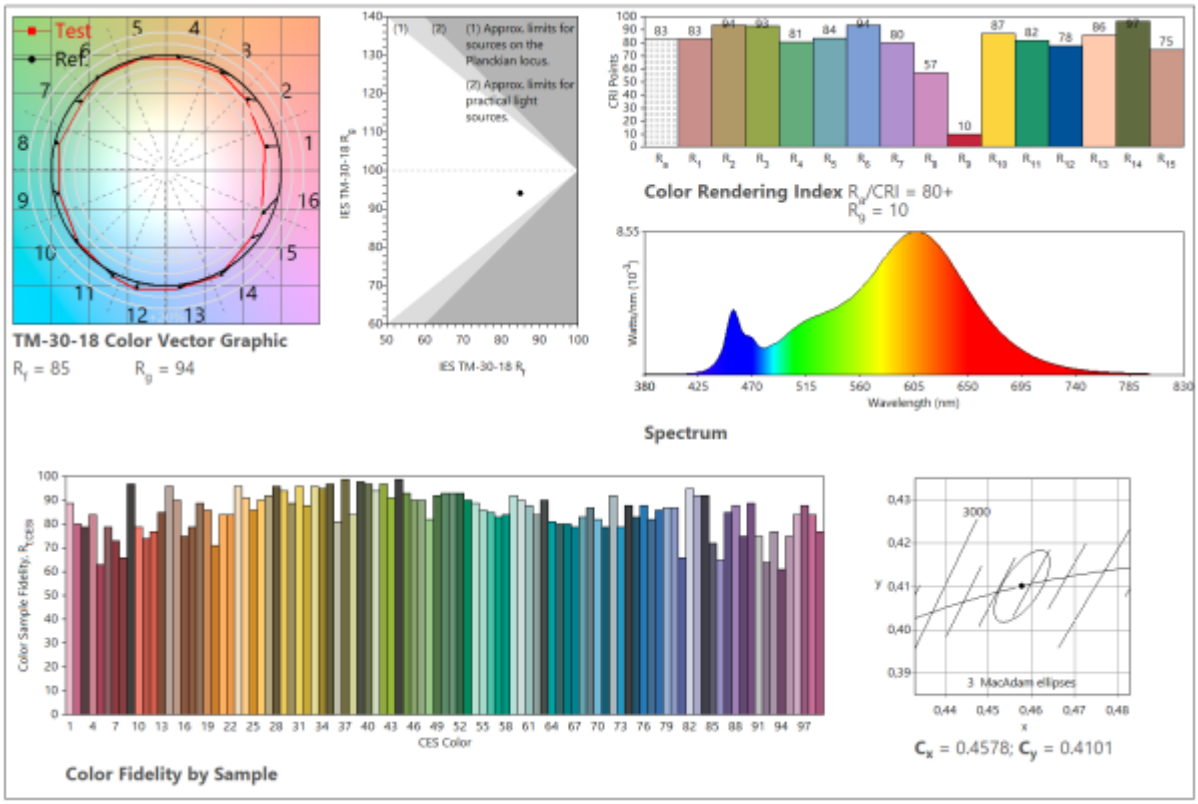
NOTE: all declared values are measured keeping the product Tc point at the Performance temperature Tp here below listed:
LF800S → Tp = 35°C / LF1200S → Tp = 40°C / LF2000S → Tp = 45°C

Color output data CRI 80+

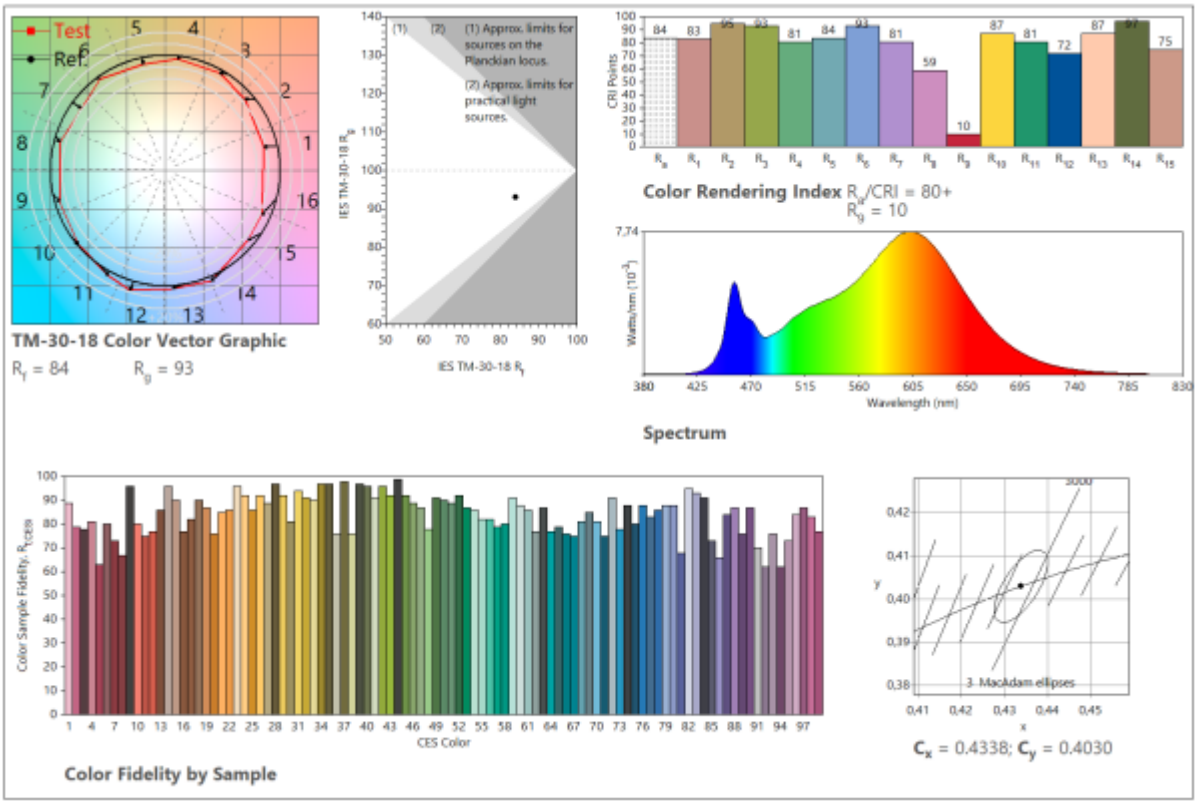
LFxxx00S-G5-825-yy Lz



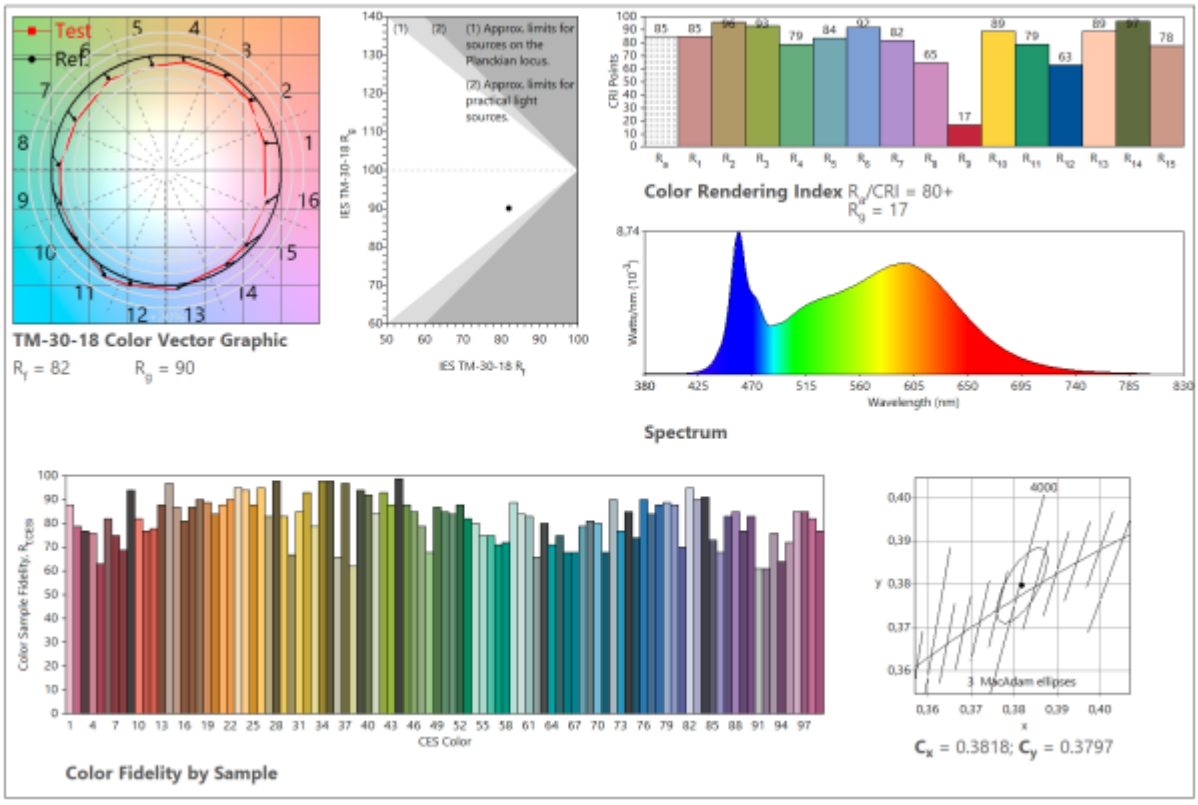
LFxxx00S-G5-827-yy Lz



LFxxx00S-G5-830-yy Lz

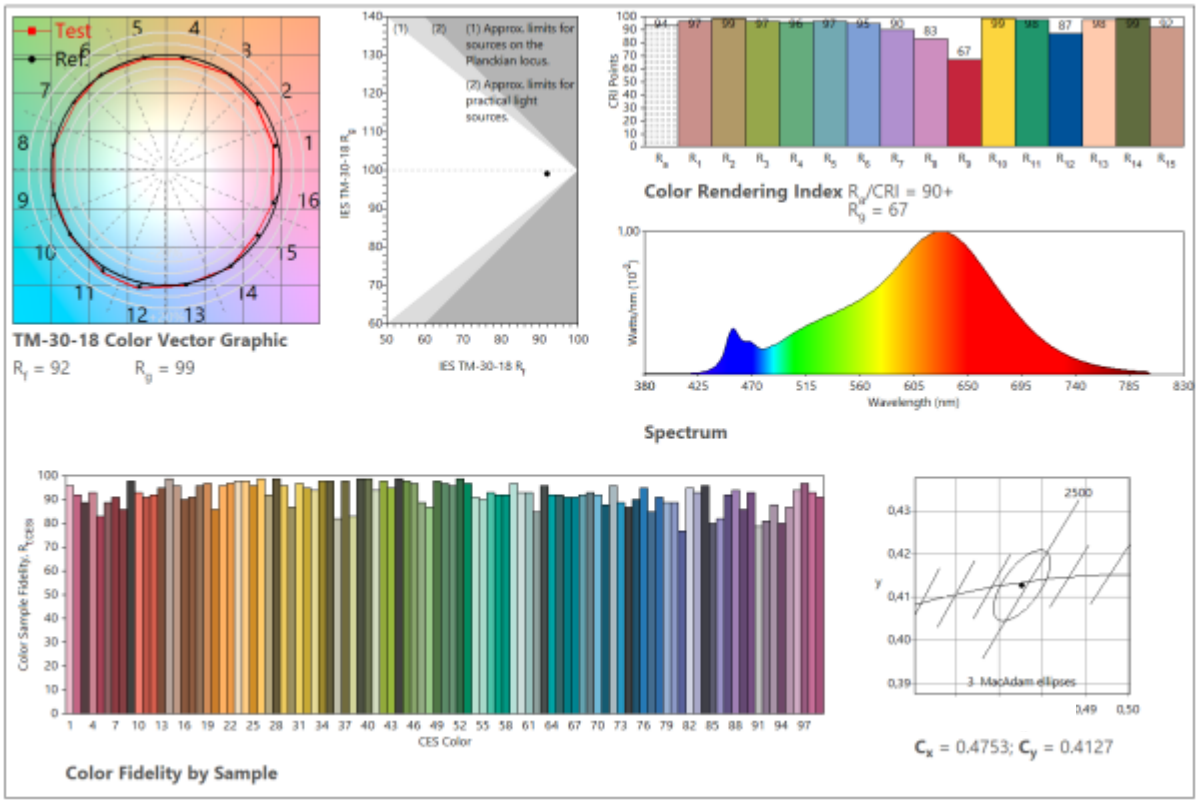


LFxxx00S-G5-840-yy Lz

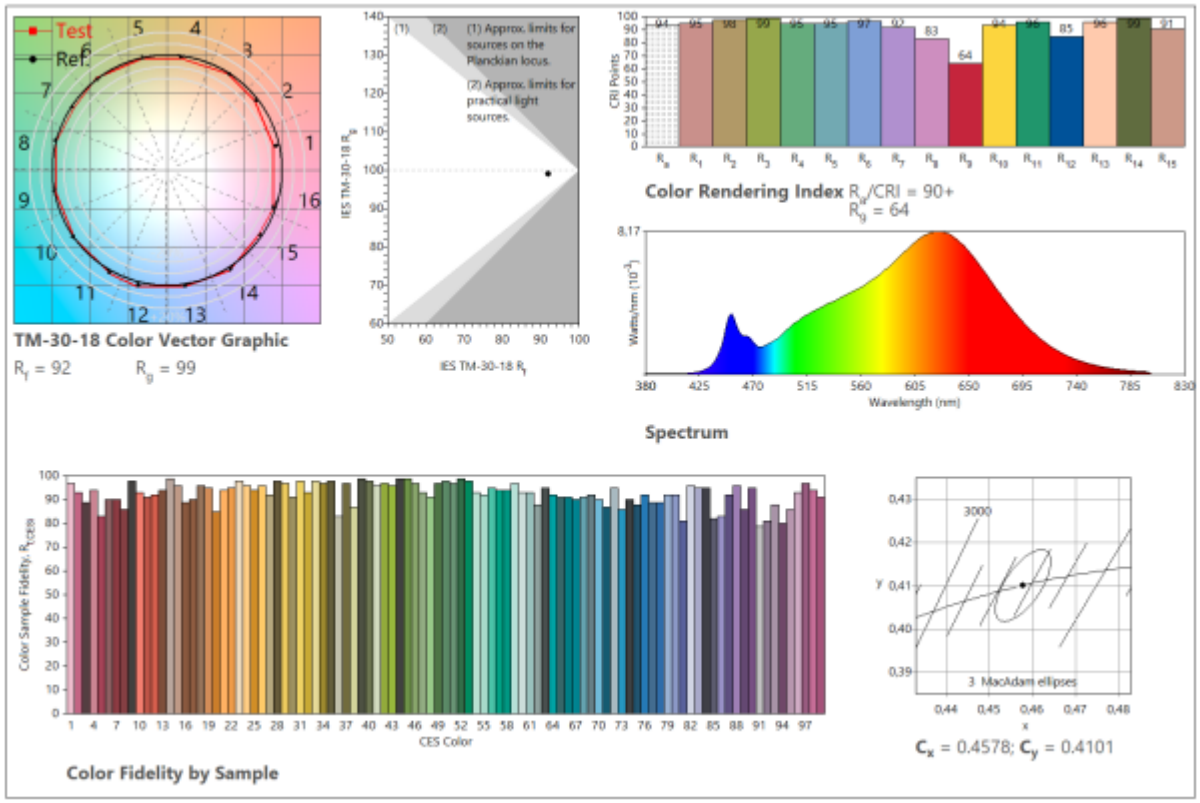


Color output data CRI 90+

LFxxx00S-G5-925-yy Lz



LFxxx00S-G5-927-yy Lz



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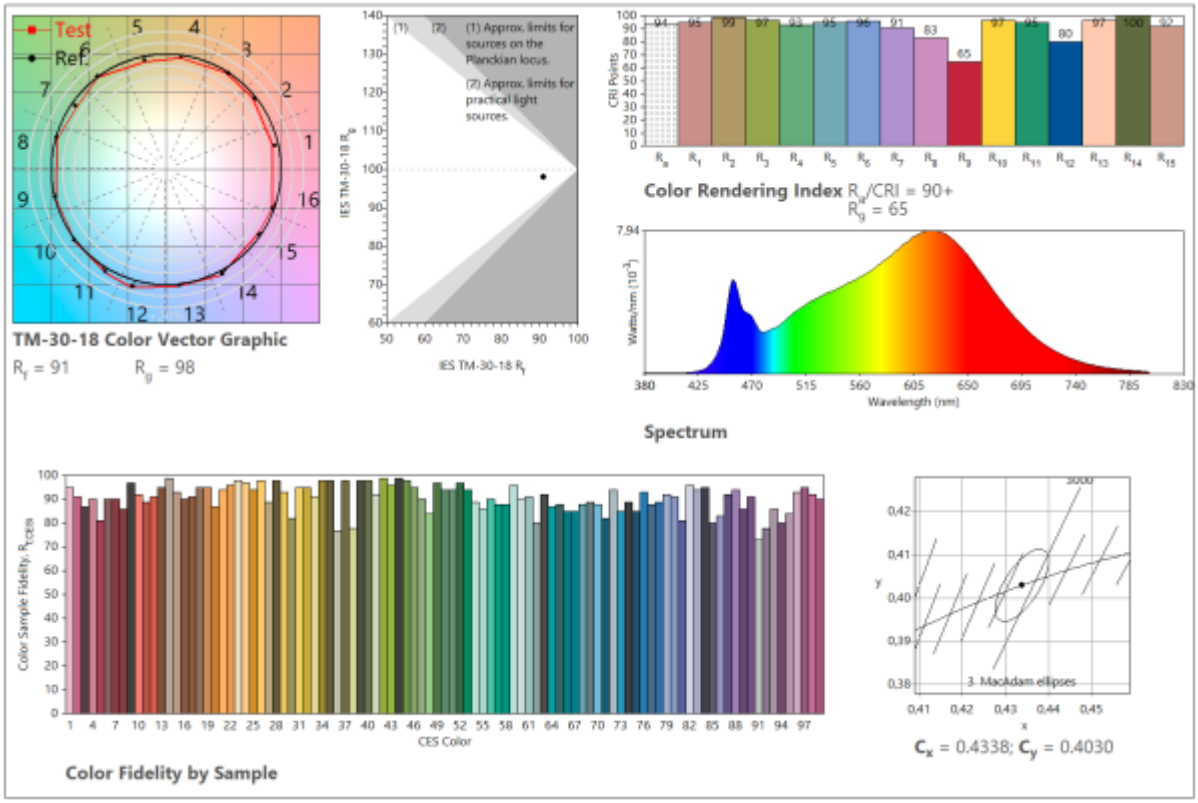
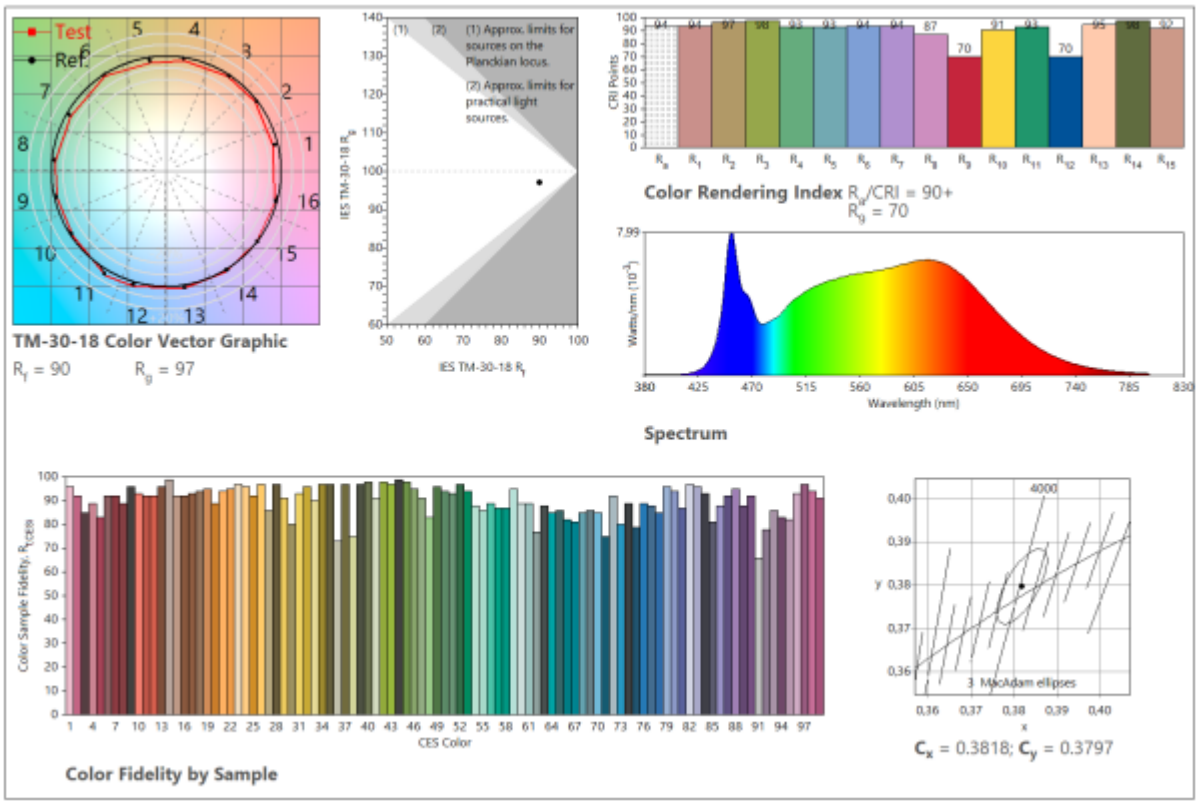
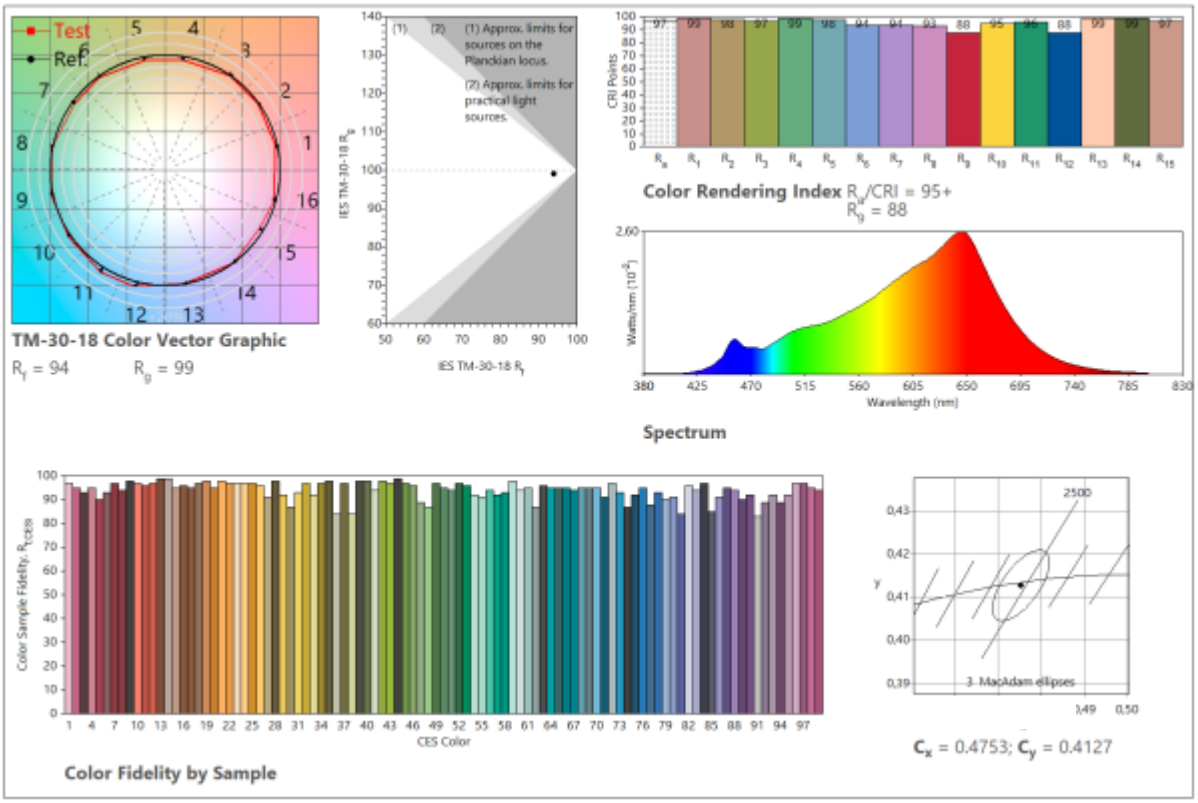


LFxxx00S-G5-940-yy Lz



Color output data CRI 95+

LFxxx00S-G5-925R-yy Lz



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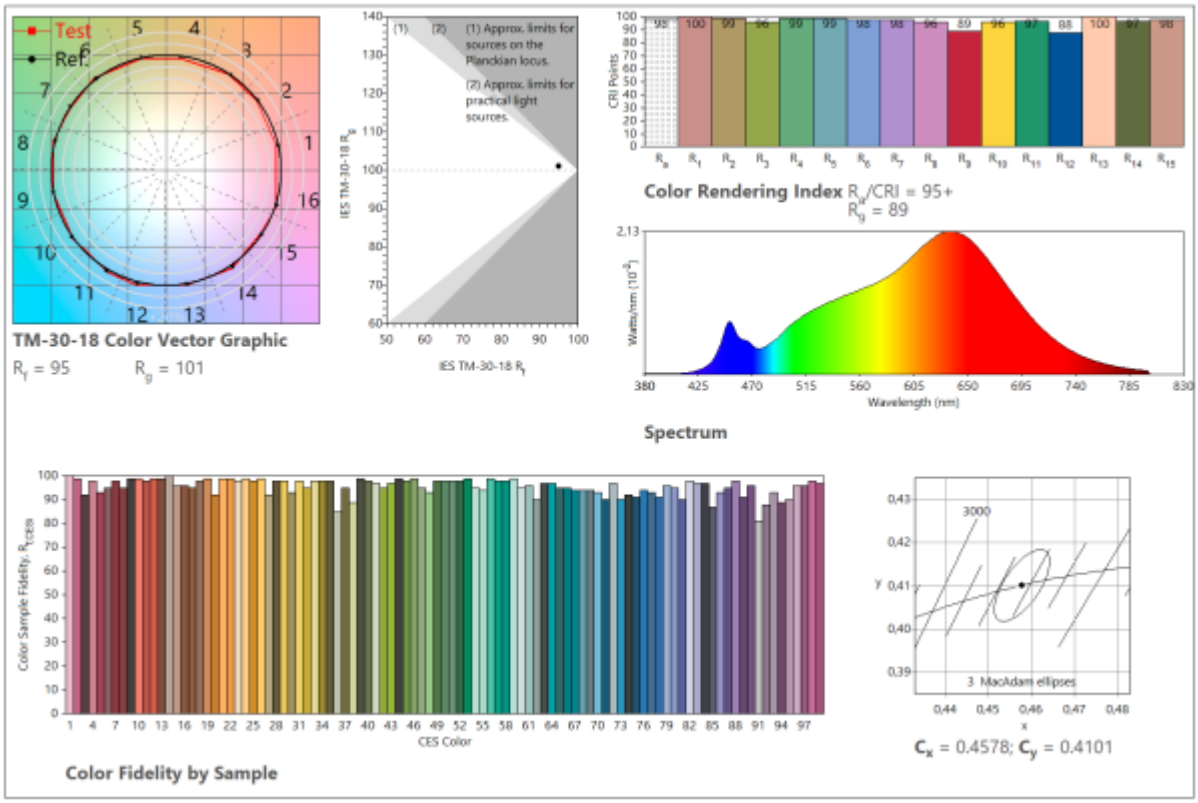

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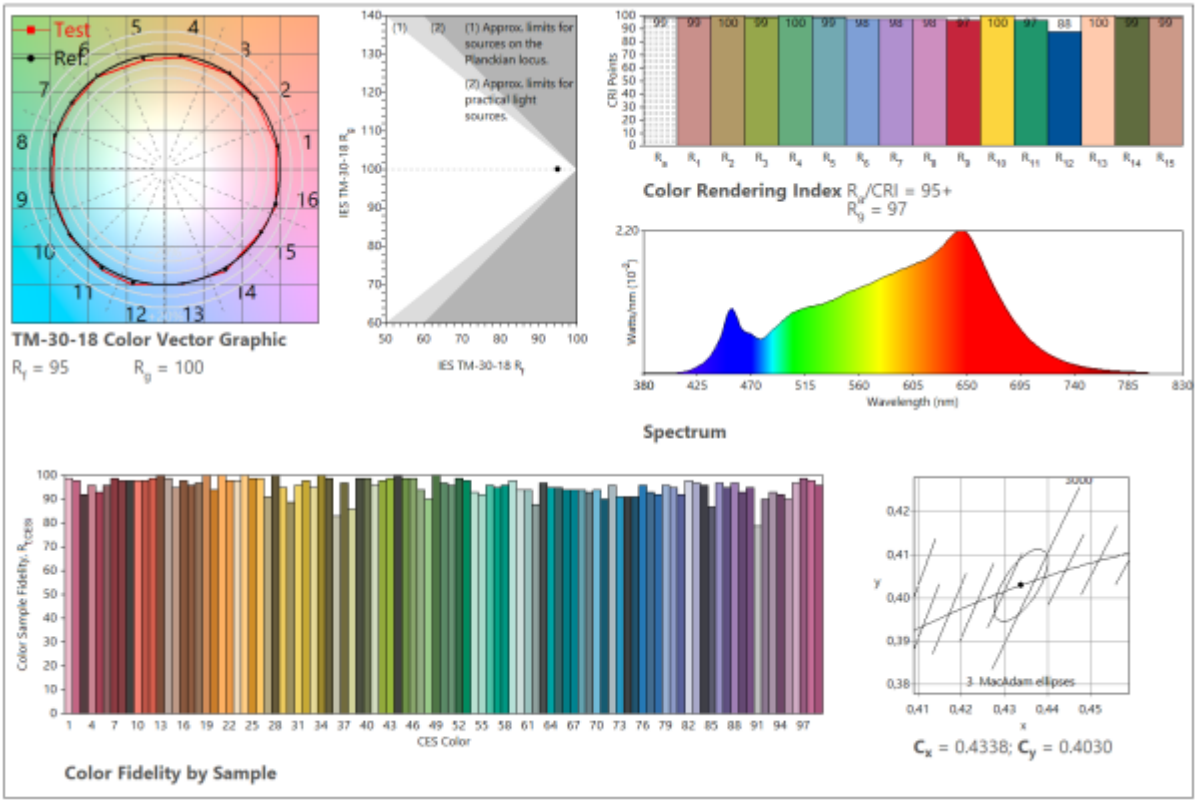
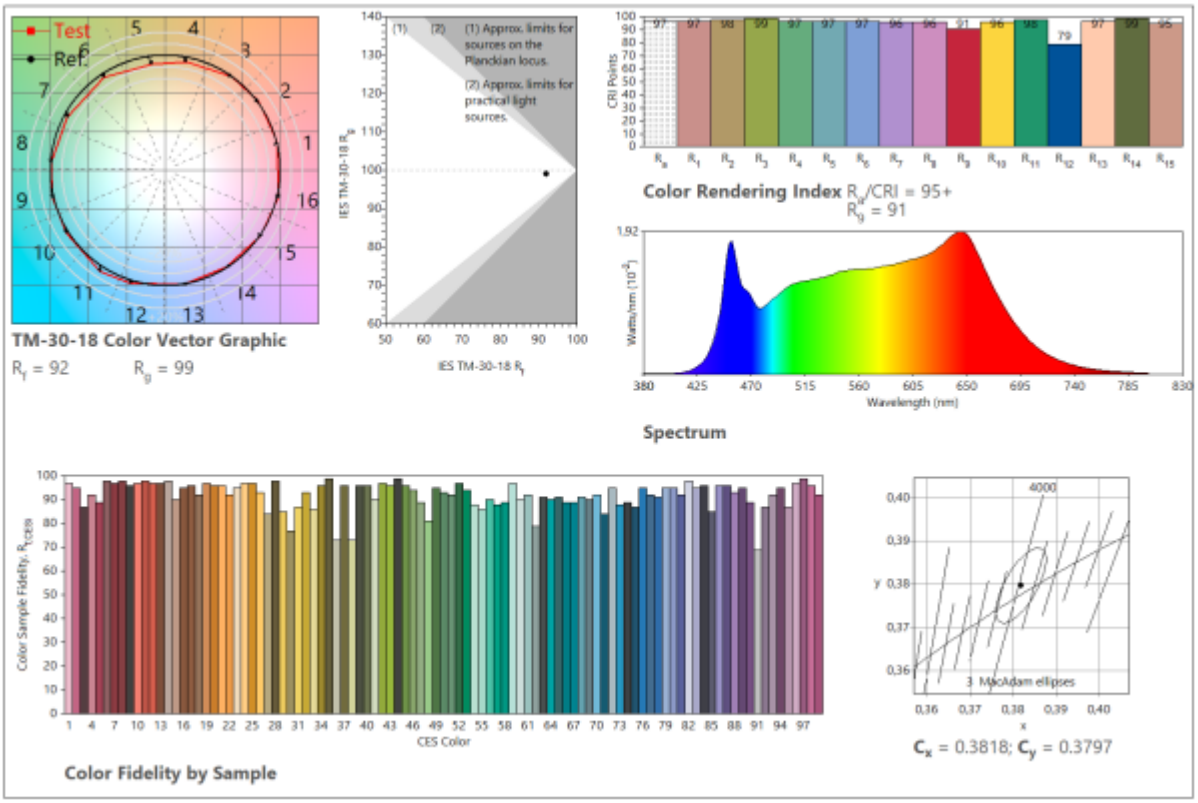
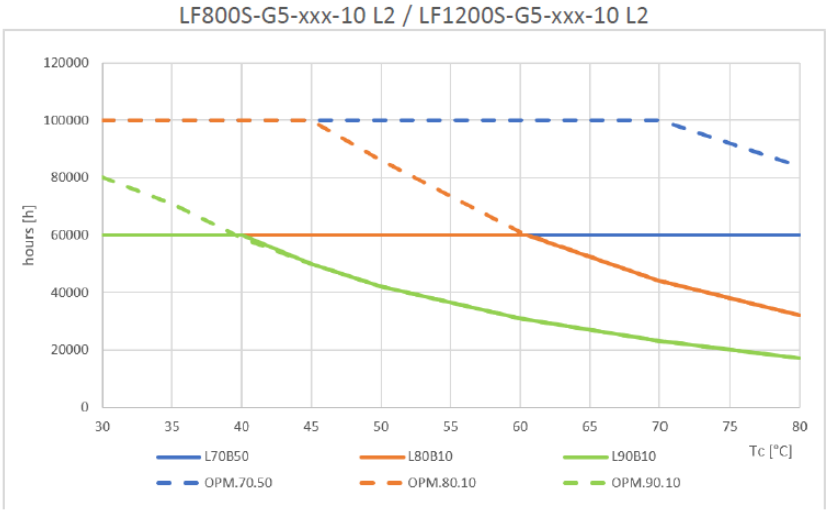
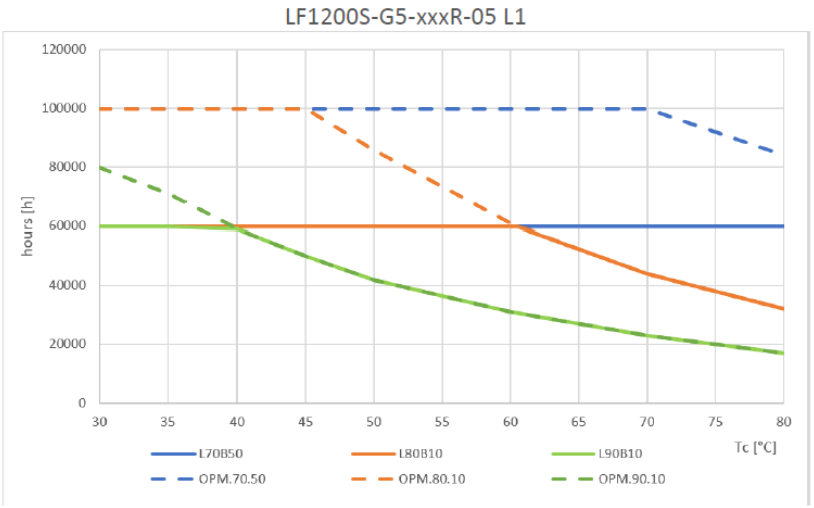


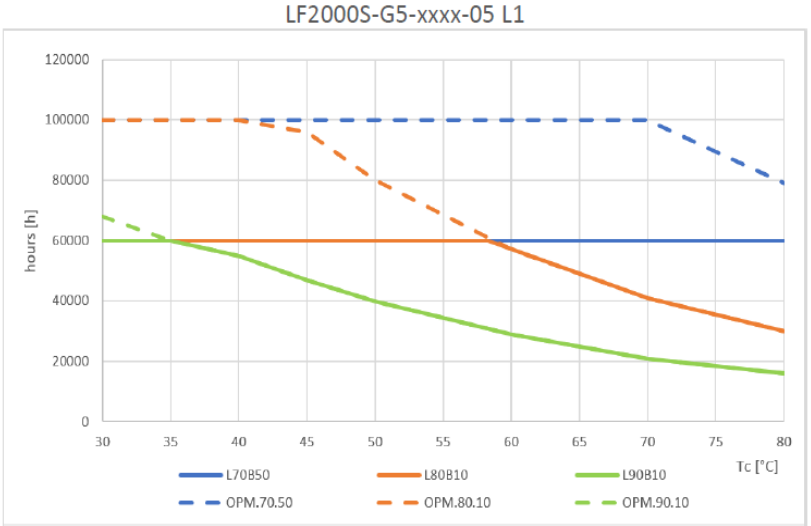
LFxxx00S-G5-940R-yy Lz



Lifetime chart







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

Packaging content

Product type	Product code	EAN10 Package content
LF800S-G5-825-10 L2	6937186129222	1x Led strip **both ends** with pre-soldered wires
LF800S-G5-827-10 L2	6937186129246	1x Led strip **both ends** with pre-soldered wires
LF800S-G5-830-10 L2	6937186129260	1x Led strip **both ends** with pre-soldered wires
LF800S-G5-840-10 L2	6937186129284	1x Led strip **both ends** with pre-soldered wires
LF1200S-G5-825-10 L2	6937186128805	1x Led strip **both ends** with pre-soldered wires
LF1200S-G5-827-10 L2	6937186128829	1x Led strip **both ends** with pre-soldered wires
LF1200S-G5-830-10 L2	6937186128843	1x Led strip **both ends** with pre-soldered wires
LF1200S-G5-840-10 L2	6937186128867	1x Led strip **both ends** with pre-soldered wires
LF2000S-G5-825-05 L1	6937186128928	1x Led strip **with single** pre-soldered wire
LF2000S-G5-827-05 L1	6937186128942	1x Led strip **with single** pre-soldered wire
LF2000S-G5-830-05 L1	6937186128966	1x Led strip **with single** pre-soldered wire
LF2000S-G5-840-05 L1	6937186138873	1x Led strip **with single** pre-soldered wire
LF800S-G5-925-10 L2	6937186129307	1x Led strip **both ends** with pre-soldered wires
LF800S-G5-927-10 L2	6937186139092	1x Led strip **both ends** with pre-soldered wires
LF800S-G5-930-10 L2	6937186129321	1x Led strip **both ends** with pre-soldered wires
LF800S-G5-940-10 L2	6937186129345	1x Led strip **both ends** with pre-soldered wires
LF1200S-G5-925-10 L2	6937186138897	1x Led strip **both ends** with pre-soldered wires
LF1200S-G5-927-10 L2	6937186129024	1x Led strip **both ends** with pre-soldered wires
LF1200S-G5-930-10 L2	6937186138910	1x Led strip **both ends** with pre-soldered wires
LF1200S-G5-940-10 L2	6937186138934	1x Led strip **both ends** with pre-soldered wires
LF2000S-G5-925-05 L1	6937186138958	1x Led strip **with single** pre-soldered wire
LF2000S-G5-927-05 L1	6937186129062	1x Led strip **with single** pre-soldered wire
LF2000S-G5-930-05 L1	6937186138972	1x Led strip **with single** pre-soldered wire
LF2000S-G5-940-05 L1	6937186129109	1x Led strip **with single** pre-soldered wire
LF800S-G5-925R-10 L2	6937186129369	1x Led strip **both ends** with pre-soldered wires
LF800S-G5-927R-10 L2	6937186139115	1x Led strip **both ends** with pre-soldered wires
LF800S-G5-930R-10 L2	6937186139139	1x Led strip **both ends** with pre-soldered wires
LF800S-G5-940R-10 L2	6937186129383	1x Led strip **both ends** with pre-soldered wires
LF1200S-G5-925R-05 L1	6937186138996	1x Led strip **with single** pre-soldered wire
LF1200S-G5-927R-05 L1	6937186129123	1x Led strip **with single** pre-soldered wire
LF1200S-G5-930R-05 L1	6937186129147	1x Led strip **with single** pre-soldered wire
LF1200S-G5-940R-05 L1	6937186139016	1x Led strip **with single** pre-soldered wire
LF2000S-G5-925R-05 L1	6937186139030	1x Led strip **with single** pre-soldered wire
LF2000S-G5-927R-05 L1	6937186129185	1x Led strip **with single** pre-soldered wire
LF2000S-G5-930R-05 L1	6937186139054	1x Led strip **with single** pre-soldered wire
LF2000S-G5-940R-05 L1	6937186139078	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:

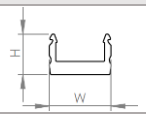
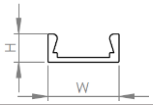
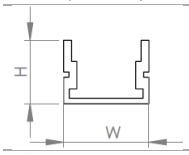
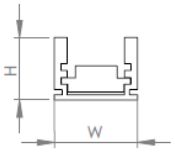
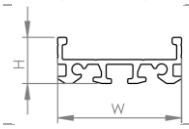
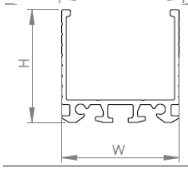
  LED highly visible | **Faded LEDs** – LED partially visible | **LED NOT visible** – good light uniformity

- **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.

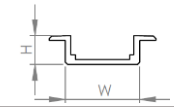
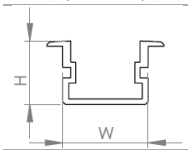
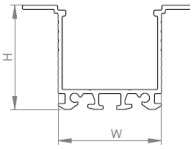
  Eg: LF800S-G5-825-10 L2 + LTS-SLIMTRACK-2000 + cover transparent

  800lm/m x **(-20%)** = 640lm/m
  640lm/m is the lumen output outside the system

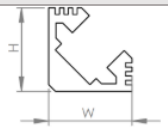
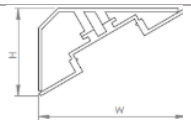
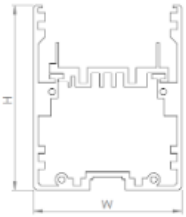
SURFACE INSTALLATION

Track Type	Dimension WxH	Product description	Max Tamb [°C]			OPTICAL PERFORMANCES (VISIBILITY of LED SPOT / OPTICAL EFFICIENCY)		
			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
	15 x 10 mm	**LTS-SLIMTRACK-2000** **EAN:**6937186141200	50°C	47°C	42°C	-20%	-35%	-40%
	15x6 mm	**FX-QMS-G2-TU15H6-300** **EAN:**6937186130860	50°C	47°C	42°C	-15%	-40%	--
	16x12 mm	**FX-QMS-G1-TU16H12-300** **EAN:**6937186126740	50°C	50°C	45°C	-24%	-45%	--
	16x12 mm	**FX-QMS-G1-TU16H12LS-300** **EAN:**6937186148421	50°C	50°C	45°C	--	--	-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%

RECESSED INSTALLATION

Track Type	Dimension WxH	Product description	Max Tamb [°C]			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
	15x6 mm	**FX-QMS-G2-TU15H6W3-300** **EAN:**6937186126702	50°C	35°C	30°C	-15%	-40%	--
	16x12 mm	**FX-QMS-G1-TU16H12W3-300** **EAN:**6937186146229	50°C	40°C	37°C	-24%	-45%	--
	26x25 mm	**FX-QMW-G2-TU26H25W10-200** **EAN:** 6937186126801	50°C	45°C	40°C	--	-55%	-50%

SPECIAL INSTALLATION

Track Type	Dimension WxH	Product description	Max Tamb [°C]			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
	19x19 mm	**FX-QMS-G2-T45D19H19-300** **EAN:**6937186131706	50°C	50°C	47°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 combination.

For **1 x LF800S-G5-825-10 L2 – 67W**

Product name	Product description	EAN 10
OT SLIM 100/220-240/24	On/off	6977770438736
OT WI 80/220-240/24 4CH CA	Bluetooth – Casambi	6937186115171
OTi DALI 80/220-240/24 1CH G3	DALI	6977770431867

For **1 x LF1200S-G5-825-10 L2 – 98W**

Product name	Product description	EAN 10
OT SLIM 160/220-240/24	On/off	6977770438750
OT WI 160/220-240/24 2CH CA	Bluetooth – Casambi	6937186115218
OTi DALI 160/220-240/24 1CH G3	DALI	6977770431904

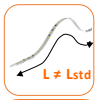
Customizations

LINEARlight FLEX Uniformity 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 2500K 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 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.