

Light is OSRAM

OSRAM

LINEARlight® FLEX Uniformity

LED strip for high quality homogeneous lighting



Features & Benefits

- 800 / 1200 / 2000 lm/m
- CRI 95+ / 90+ and 80+ for higher efficacy
- Color uniformity ≤ 2 SDCM*
- Uniform dot-less appearance also into shallow profiles
- Lifetime up to 60.000 h L90B10 at Tp, with SDT Technology
- Internal constant current regulators on each single cut unit
- Dimmable down to 0.1% with OPTOTRONIC® LED drivers
- High quality LED and large selection of light color temperatures
- Easy installation on smooth surfaces with the self-adhesive tape
- Top reliability with Reel-to-Reel technology, 140 LED/m
- High speed protection in case of accidental miswiring up to 25V
- Available also with silicone encapsulation IP67 & IP65
- Pre-soldered wires with the optional Connection System
- Made in Italy

Application areas

Direct and indirect lighting and integration in luminaires, where long lasting lighting performances are key for preserving value and prestige of lit locations.

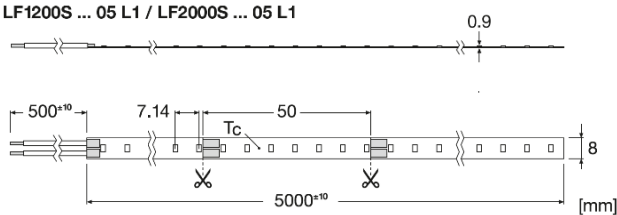
Standards

CE, ENEC 10, EAC, VDE, CSA and UL recognized

Photometric data acc. to: LM-80 and TM-21, LM-79, EN13032-4, CIE S 025, IES TM-30-15

Technical data

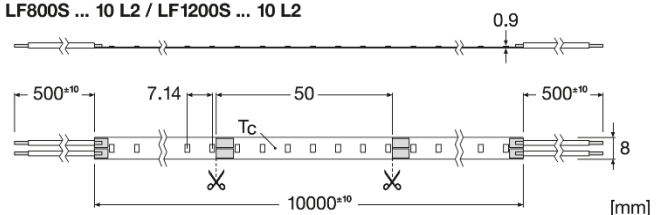
LF1200S ... 05 L1 / LF2000S ... 05 L1



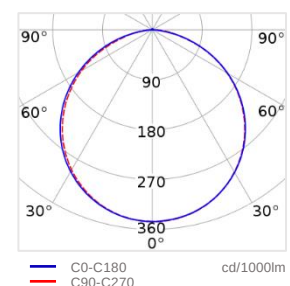
Lowest Bending Radius = 20 mm

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

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



Nominal Voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation @ Tc point	-30...+85 °C
Storage Temperature	-40...+85 °C
Ambient Temperature with profile **	-30...+50 °C



Beam Angle 120°

Technical data and order codes - 1/2

	CRI 90+	Nominal CCT See color output data	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Order Code	Length m
800 lm/m	LF800S-G5-922-10 L2	2200 K	800	9	100	4062172169974	10
	LF800S-G5-925-10 L2	2500 K	800	8	107	4062172169998	10
	LF800S-G5-927-10 L2	2700 K	800	7,5	107	4062172170017	10
	LF800S-G5-930-10 L2	3000 K	800	7,5	107	4062172170031	10
	LF800S-G5-935-10 L2	3500 K	800	7,5	119	4062172169790	10
	LF800S-G5-940-10 L2	4000 K	800	6,7	119	4062172170079	10
	LF800S-G5-950-10 L2	5000 K	800	6,7	119	4062172170093	10
	LF800S-G5-957-10 L2	5700 K	800	6,7	119	4062172170116	10
	LF800S-G5-965-10 L2	6500 K	810	6,7	96	4062172169950	10
1200 lm/m	LF1200S-G5-922-10 L2	2200 K	1100	11,6	95	4062172170451	10
	LF1200S-G5-925-10 L2	2500 K	1200	11,6	103	4062172170475	10
	LF1200S-G5-927-10 L2	2700 K	1200	10,9	110	4062172170611	10
	LF1200S-G5-930-10 L2	3000 K	1200	10,9	110	4062172170673	10
	LF1200S-G5-935-10 L2	3500 K	1200	10,9	110	4062172170697	10
	LF1200S-G5-940-10 L2	4000 K	1200	9,9	121	4062172171410	10
	LF1200S-G5-950-10 L2	5000 K	1200	9,9	121	4062172171434	10
	LF1200S-G5-957-10 L2	5700 K	1200	9,9	121	4062172171458	10
	LF1200S-G5-965-10 L2	6500 K	1200	9,9	121	4062172171472	10
2000 lm/m	LF2000S-G5-922-05 L1	2200 K	1900	21	90	4062172171113	5
	LF2000S-G5-925-05 L1	2500 K	2000	19,6	102	4062172171137	5
	LF2000S-G5-927-05 L1	2700 K	2000	18,5	108	4062172171151	5
	LF2000S-G5-930-05 L1	3000 K	2000	18,5	108	4062172171175	5
	LF2000S-G5-935-05 L1	3500 K	2000	18,5	108	4062172171199	5
	LF2000S-G5-940-05 L1	4000 K	2000	17,3	116	4062172171212	5
	LF2000S-G5-950-05 L1	5000 K	2000	17,3	116	4062172171236	5
	LF2000S-G5-957-05 L1	5700 K	2000	17,3	116	4062172171250	5
	LF2000S-G5-965-05 L1	6500 K	2000	17,3	116	4062172171274	5
	CRI 95+	Nominal CCT See color output data	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Order Code	Length m
800 lm/m	LF800S-G5-925R-10 L2	2500 K	800	8,3	96	4062172170154	10
	LF800S-G5-927R-10 L2	2700 K	800	8,3	96	4062172170178	10
	LF800S-G5-930R-10 L2	3000 K	800	7,3	110	4062172170192	10
	LF800S-G5-935R-10 L2	3500 K	800	7,3	110	4062172170215	10
	LF800S-G5-940R-10 L2	4000 K	800	7,3	110	4062172170239	10
	LF800S-G5-950R-10 L2	5000 K	800	7,3	110	4062172170253	10
1200 lm/m	LF1200S-G5-925R-05 L1	2500 K	1200	12	100	4062172171496	5
	LF1200S-G5-927R-05 L1	2700 K	1200	12	100	4062172171519	5
	LF1200S-G5-930R-05 L1	3000 K	1200	10,9	110	4062172171533	5
	LF1200S-G5-935R-05 L1	3500 K	1200	10,9	110	4062172171557	5
	LF1200S-G5-940R-05 L1	4000 K	1200	10,9	110	4062172171571	5
	LF1200S-G5-950R-05 L1	5000 K	1200	10,9	110	4062172171595	5
2000 lm/m	LF2000S-G5-925R-05 L1	2500 K	2000	19,5	103	4062172171298	5
	LF2000S-G5-927R-05 L1	2700 K	2000	19,5	103	4062172171311	5
	LF2000S-G5-930R-05 L1	3000 K	2000	18,1	110	4062172171335	5
	LF2000S-G5-935R-05 L1	3500 K	2000	18,1	110	4062172171359	5
	LF2000S-G5-940R-05 L1	4000 K	2000	18,1	110	4062172171373	5
	LF2000S-G5-950R-05 L1	5000 K	2000	18,1	110	4062172171397	5

Technical data and order codes - 2/2

	CRI 80+	Nominal CCT See color output data	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Order Code	Length m
800 lm/m	LF800S-G5-822-10 L2	2200 K	800	7,2	111	4062172170055	10
	LF800S-G5-825-10 L2	2500 K	800	6,7	119	4062172169813	10
	LF800S-G5-827-10 L2	2700 K	800	6,3	127	4062172169837	10
	LF800S-G5-830-10 L2	3000 K	810	6	135	4062172169851	10
	LF800S-G5-835-10 L2	3500 K	810	6	135	4062172169875	10
	LF800S-G5-840-10 L2	4000 K	810	6	135	4062172169899	10
	LF800S-G5-850-10 L2	5000 K	810	6	135	4062172169912	10
	LF800S-G5-857-10 L2	5700 K	810	6	135	4062172169936	10
	LF800S-G5-865-10 L2	6500 K	810	6	135	4062172169950	10
1200 lm/m	LF1200S-G5-822-10 L2	2200 K	1200	10,6	113	4062172170277	10
	LF1200S-G5-825-10 L2	2500 K	1200	9,8	122	4062172170291	10
	LF1200S-G5-827-10 L2	2700 K	1200	9,2	130	4062172170314	10
	LF1200S-G5-830-10 L2	3000 K	1200	8,6	140	4062172170338	10
	LF1200S-G5-835-10 L2	3500 K	1200	8,6	140	4062172170352	10
	LF1200S-G5-840-10 L2	4000 K	1200	8,6	140	4062172170376	10
	LF1200S-G5-850-10 L2	5000 K	1200	8,6	140	4062172170390	10
	LF1200S-G5-857-10 L2	5700 K	1200	8,6	140	4062172170413	10
	LF1200S-G5-865-10 L2	6500 K	1200	8,6	140	4062172170437	10
2000 lm/m	LF2000S-G5-822-05 L1	2200 K	2000	18,1	110	4062172170932	5
	LF2000S-G5-825-05 L1	2500 K	2000	17,3	116	4062172170956	5
	LF2000S-G5-827-05 L1	2700 K	2000	16	125	4062172170970	5
	LF2000S-G5-830-05 L1	3000 K	2000	14,6	137	4062172170994	5
	LF2000S-G5-835-05 L1	3500 K	2000	14,6	137	4062172171014	5
	LF2000S-G5-840-05 L1	4000 K	2000	14,6	137	4062172171038	5
	LF2000S-G5-850-05 L1	5000 K	2000	14,6	137	4062172171052	5
	LF2000S-G5-857-05 L1	5700 K	2000	14,6	137	4062172171076	5
	LF2000S-G5-865-05 L1	6500 K	2000	14,6	137	4062172171090	5

NOTE:

all declared values are measured keeping the product Tc point at the Performance temperature Tp here below listed:

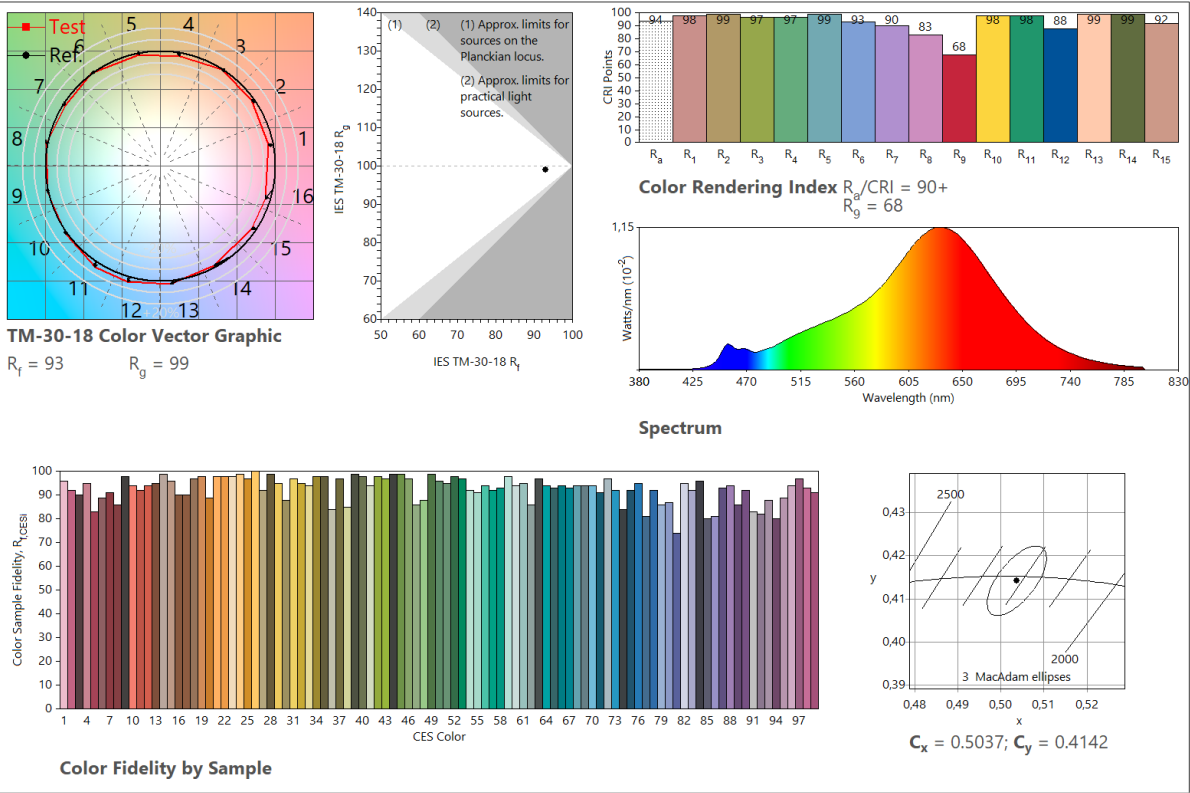
LF800S → Tp = 35°C

LF1200S → Tp = 40°C

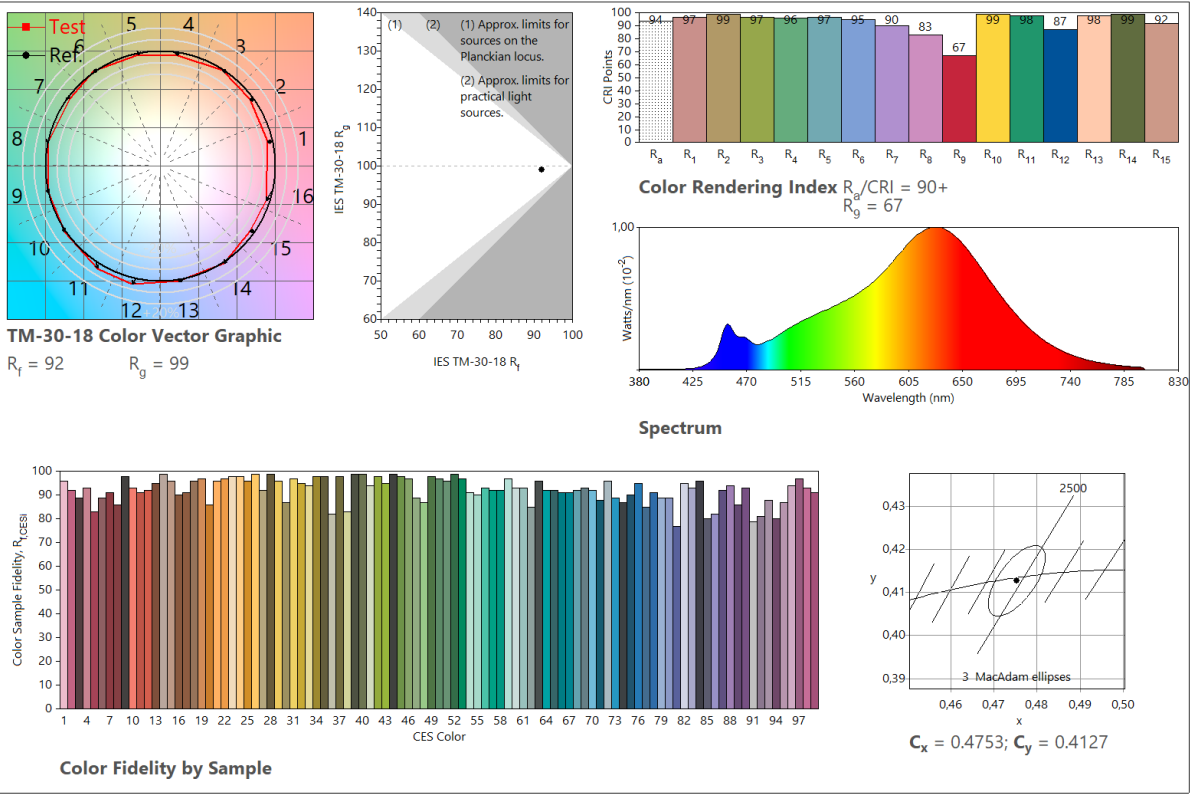
LF2000S → Tp = 45°C

Color output data CRI 90+

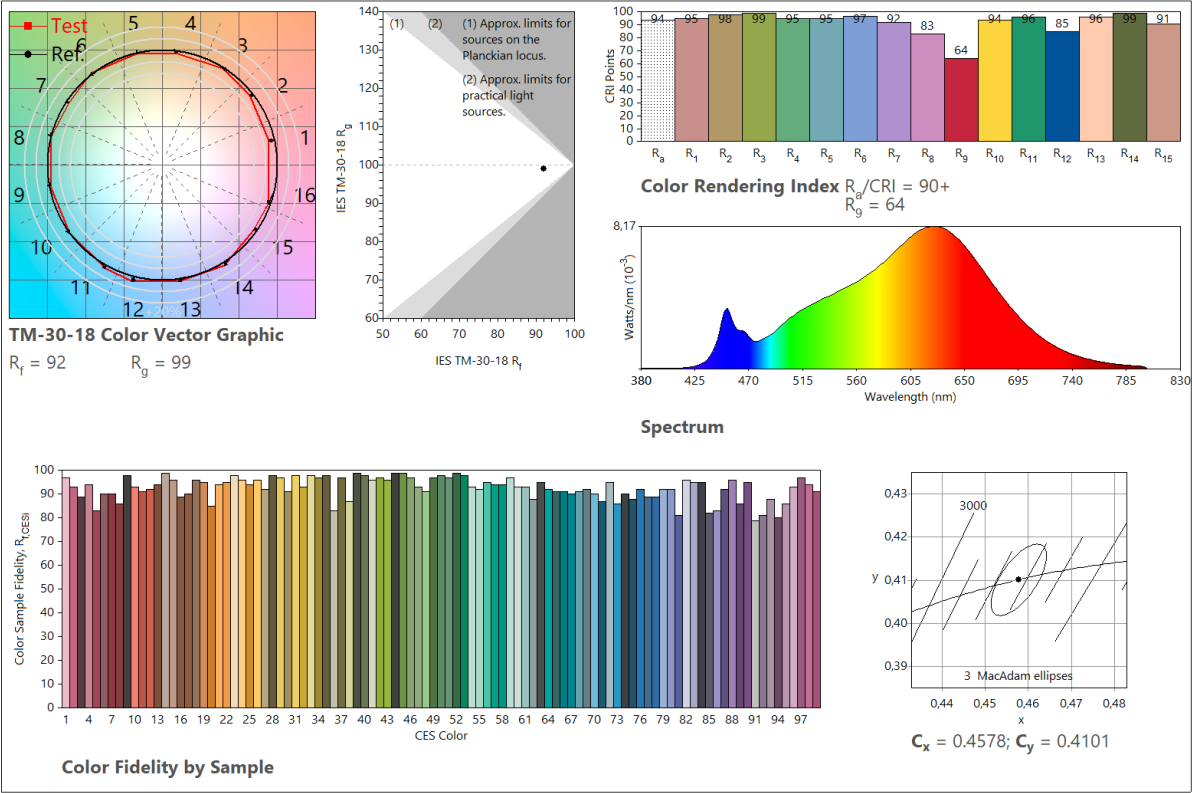
LFxx00S-G5-922-yy Lz



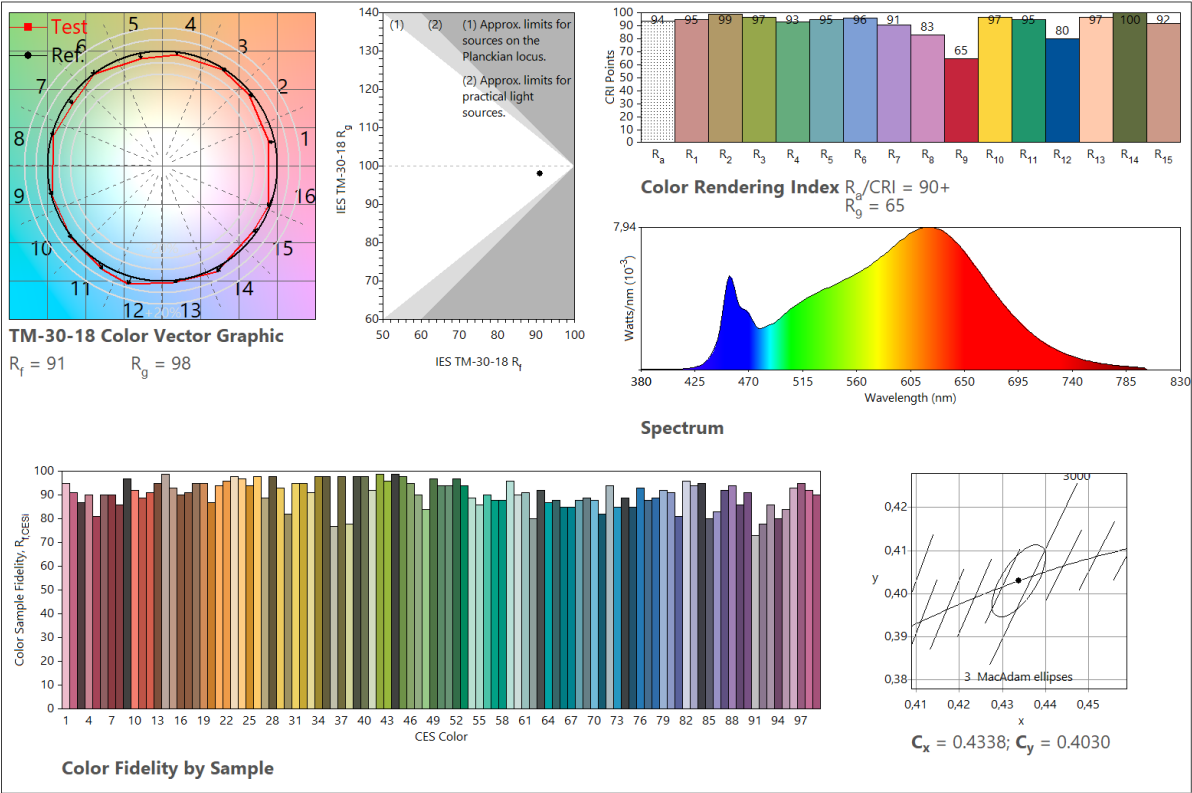
LFxx00S-G5-925-yy Lz



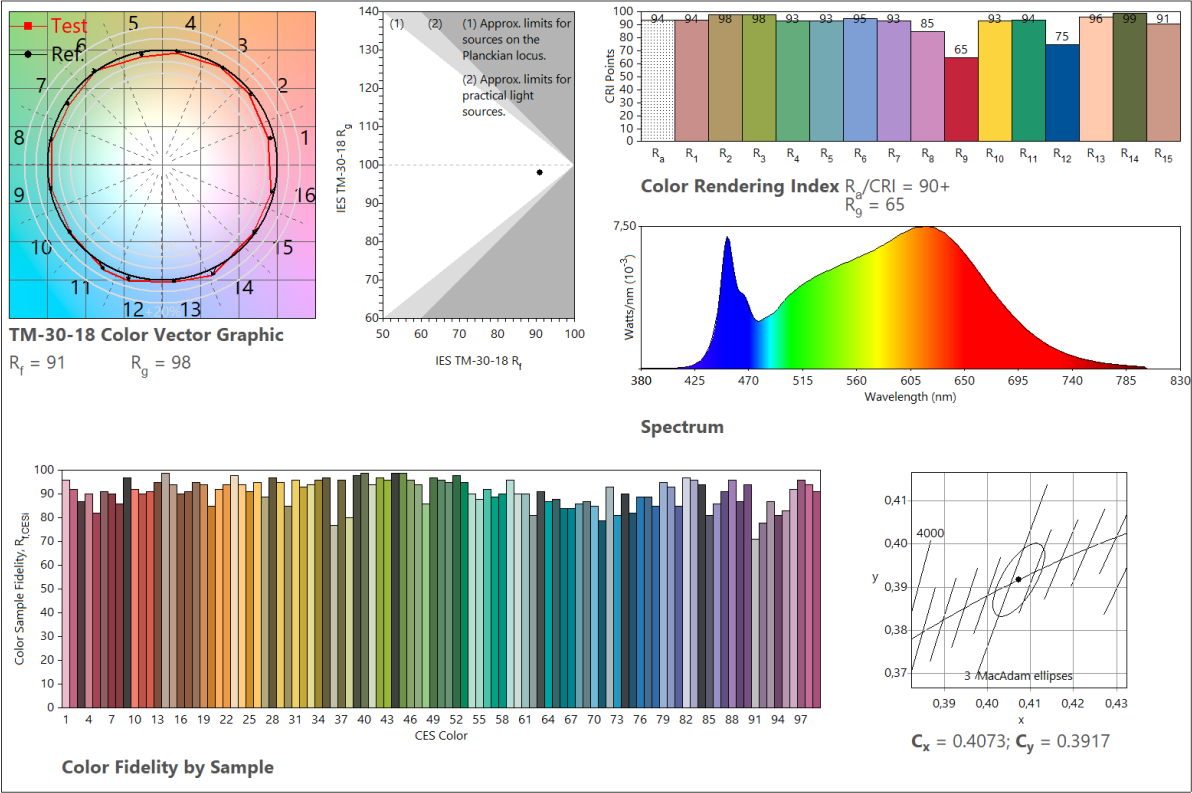
LFxx00S-G5-927-yy Lz



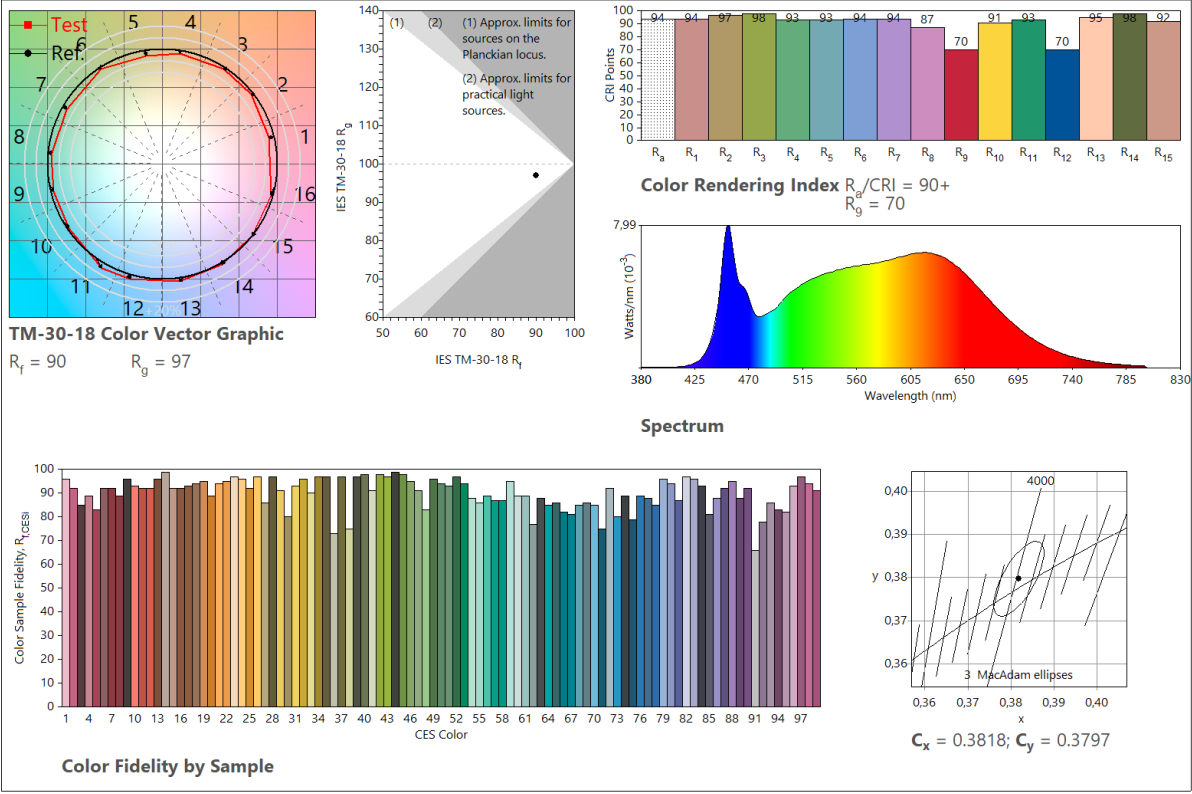
LFxx00S-G5-930-yy Lz



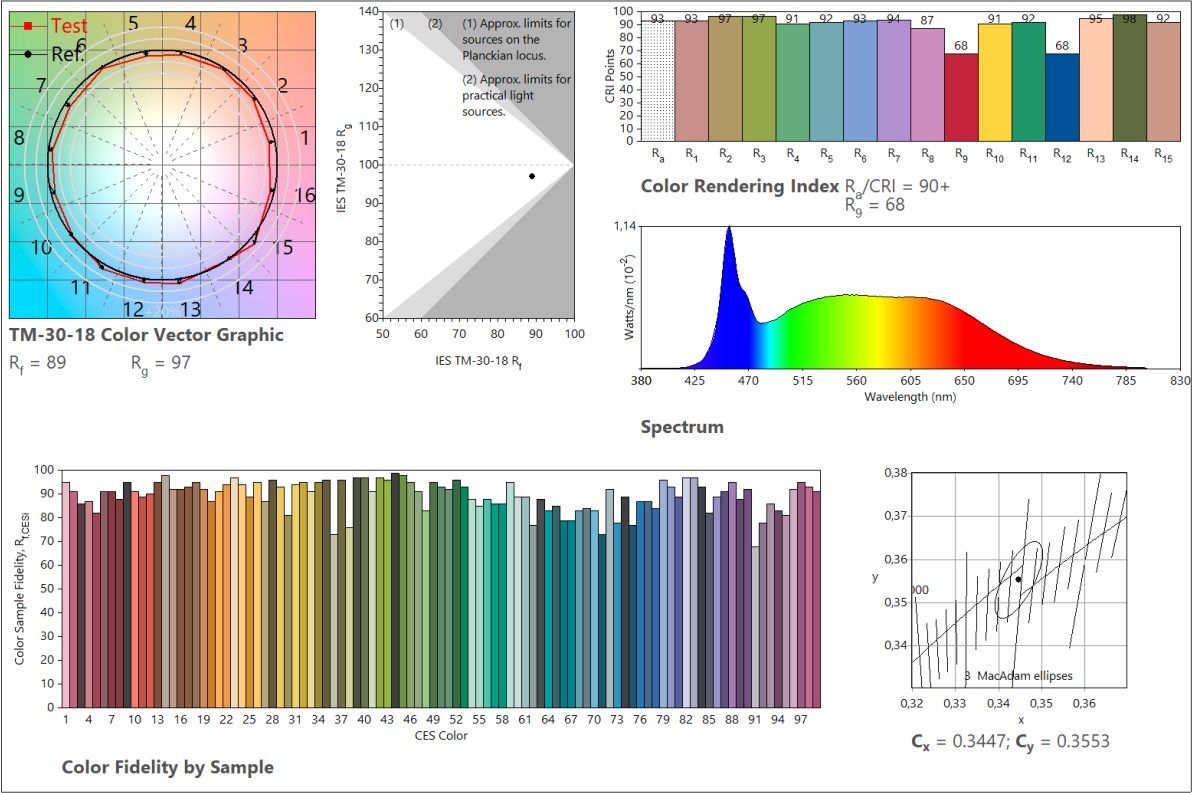
LFxx00S-G5-935-yy Lz



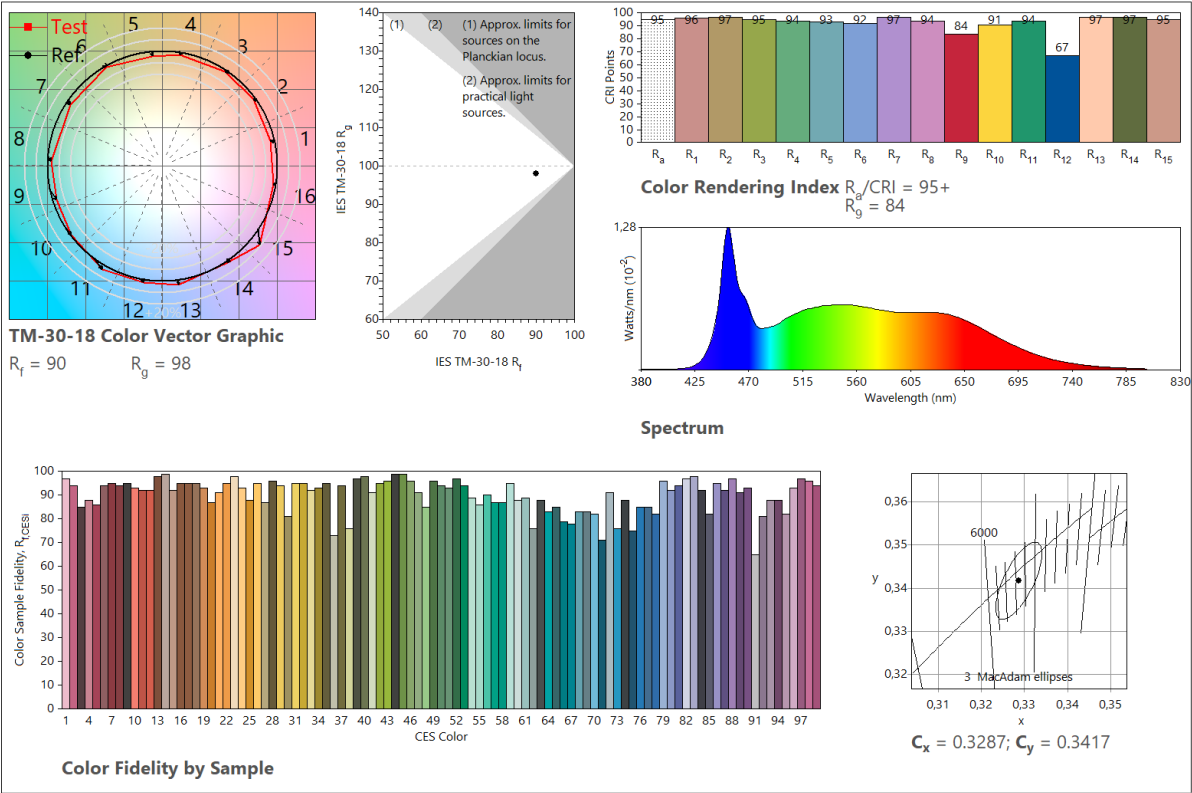
LFxx00S-G5-940-yy Lz



LFxx00S-G5-950-yy Lz



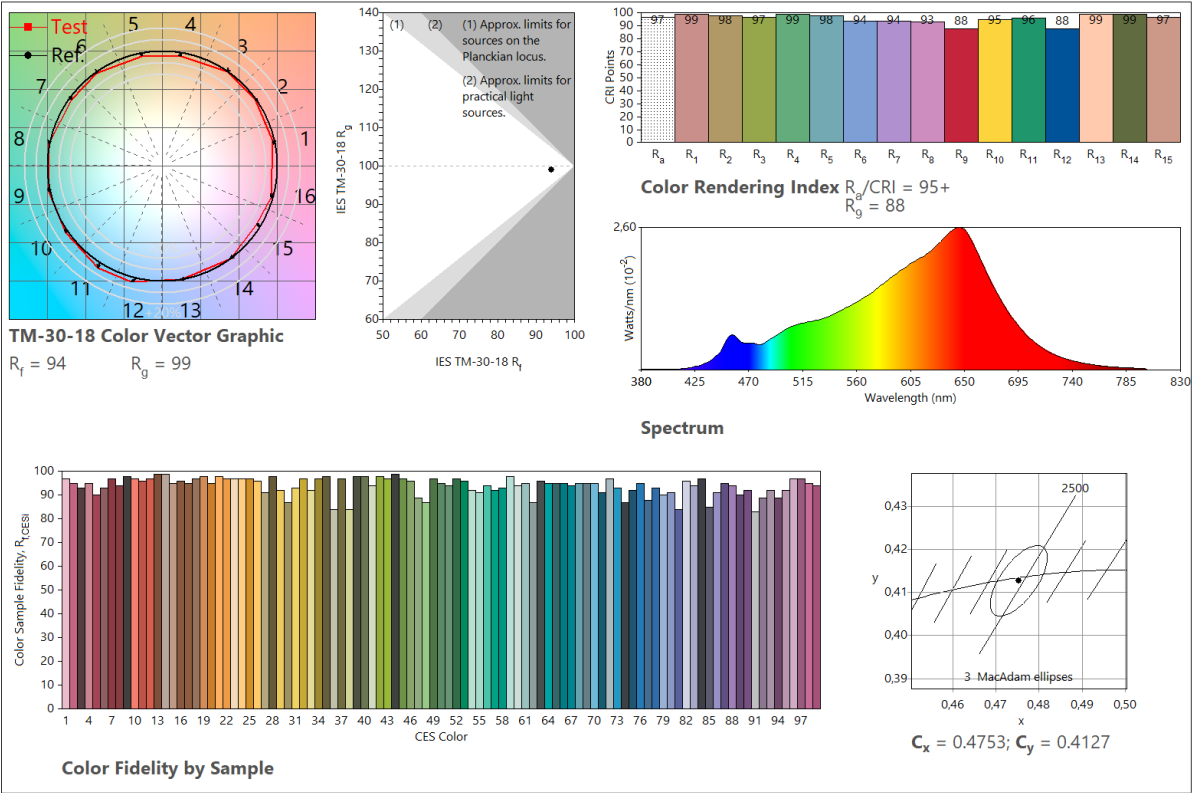
LFxx00S-G5-957-yy Lz



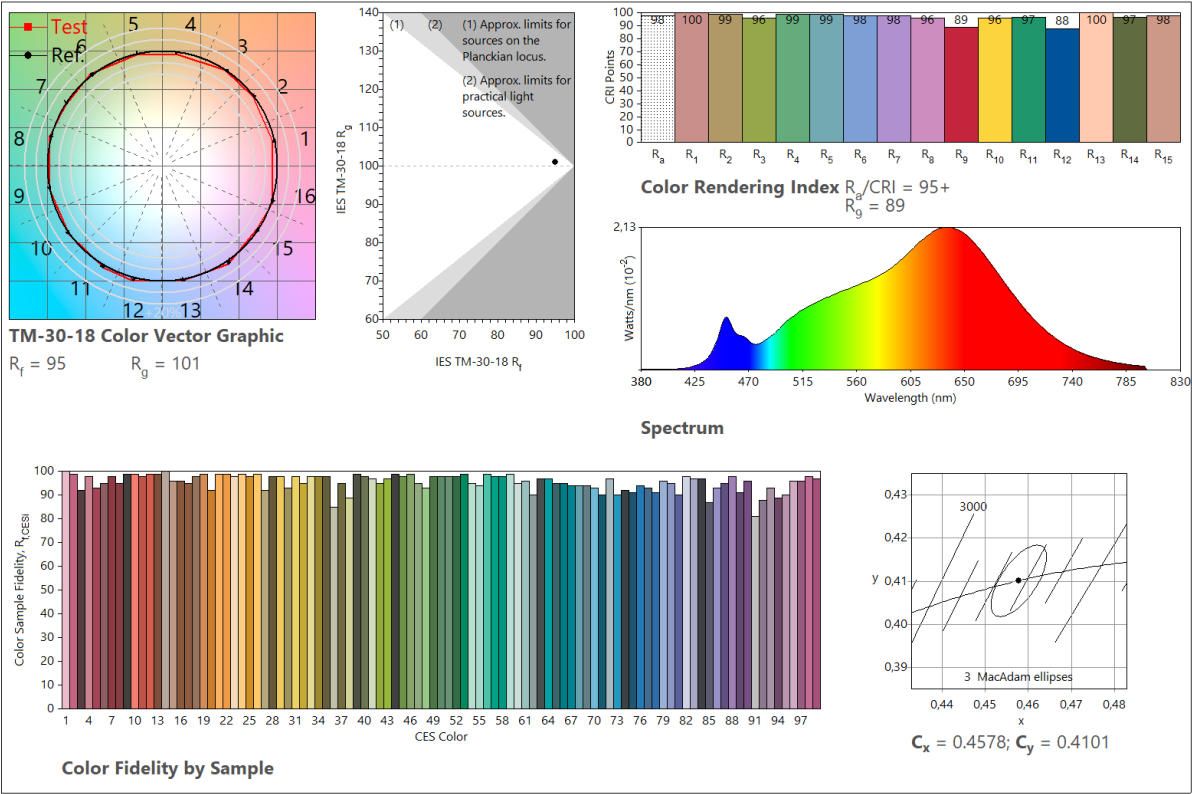
[illegible]

Color output data CRI 95+

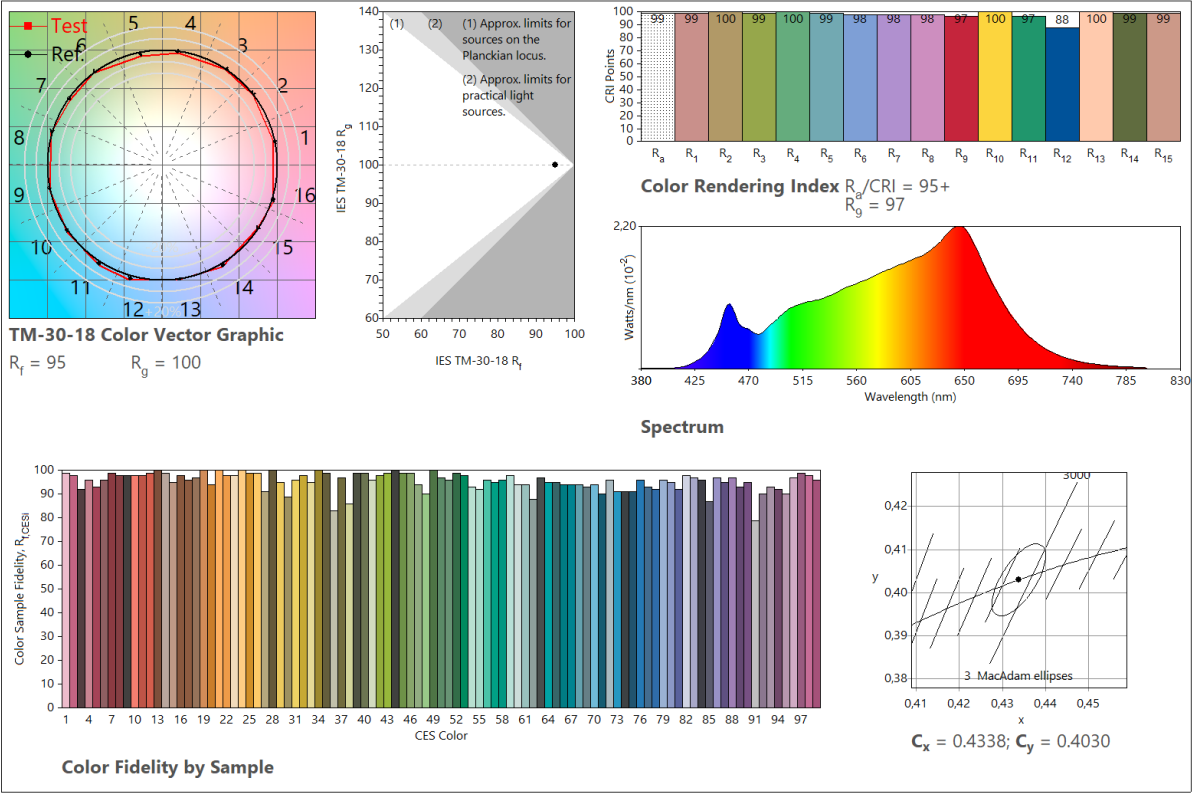
LFxx00S-G5-925R-yy Lz



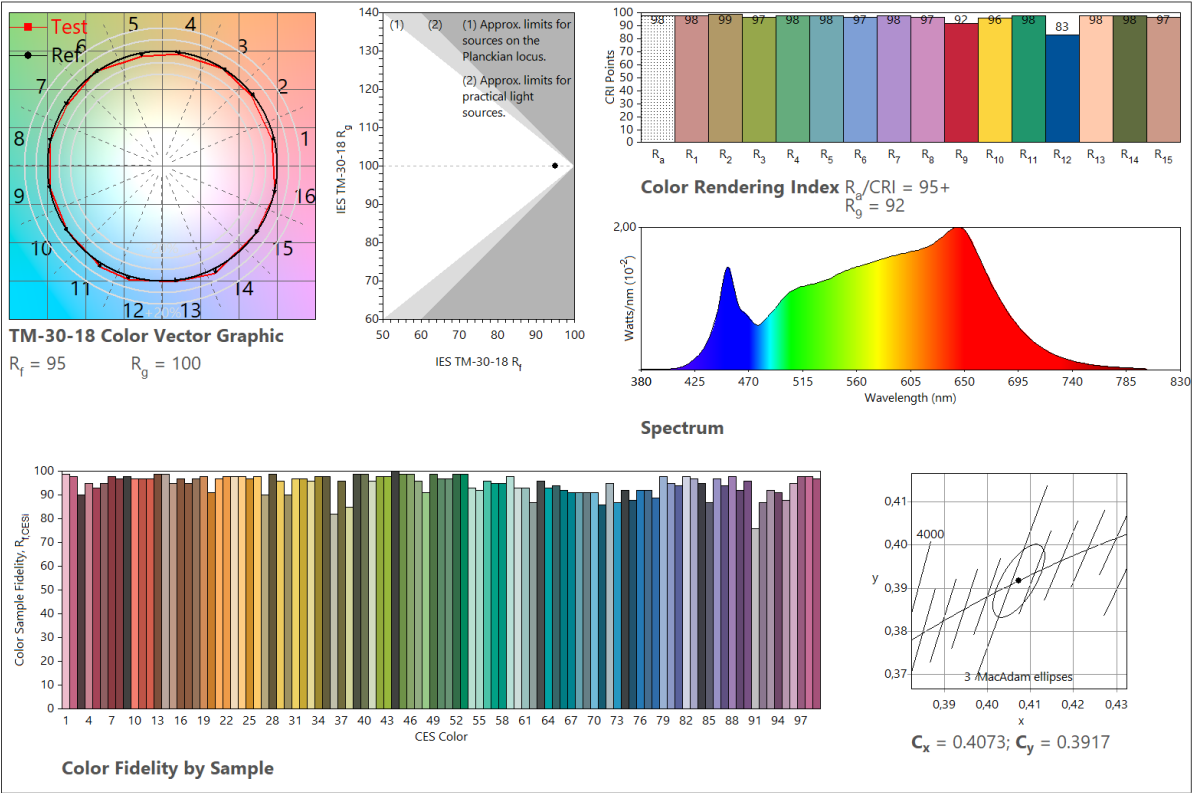
LFxx00S-G5-927R-yy Lz



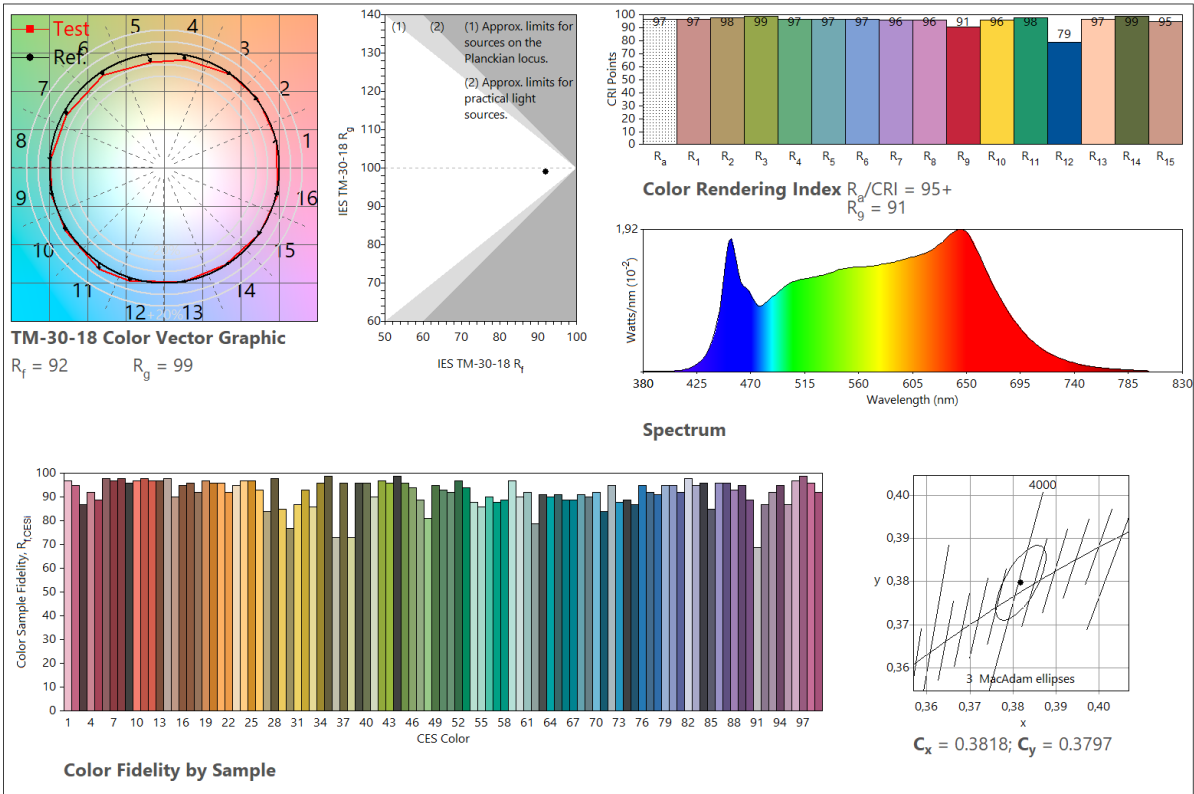
LFxx00S-G5-930R-yy Lz



LFxx00S-G5-935R-yy Lz

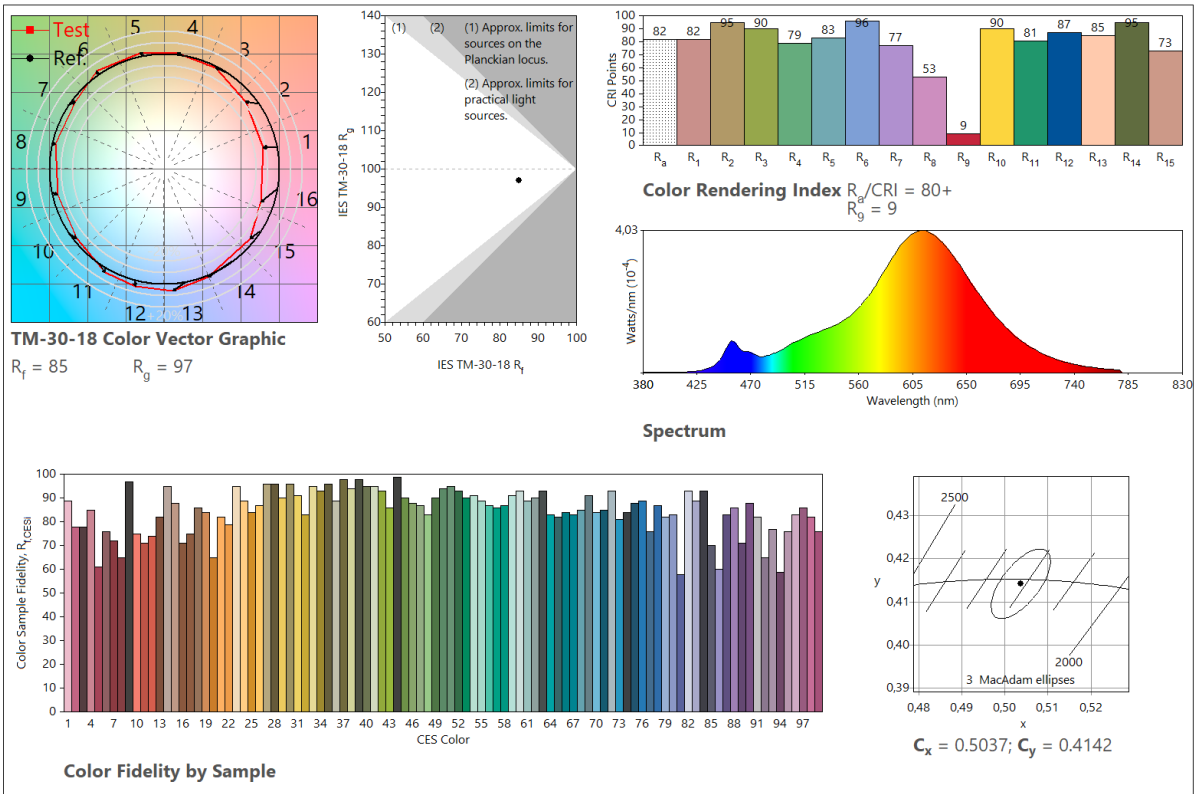


LFxx00S-G5-940R-yy Lz

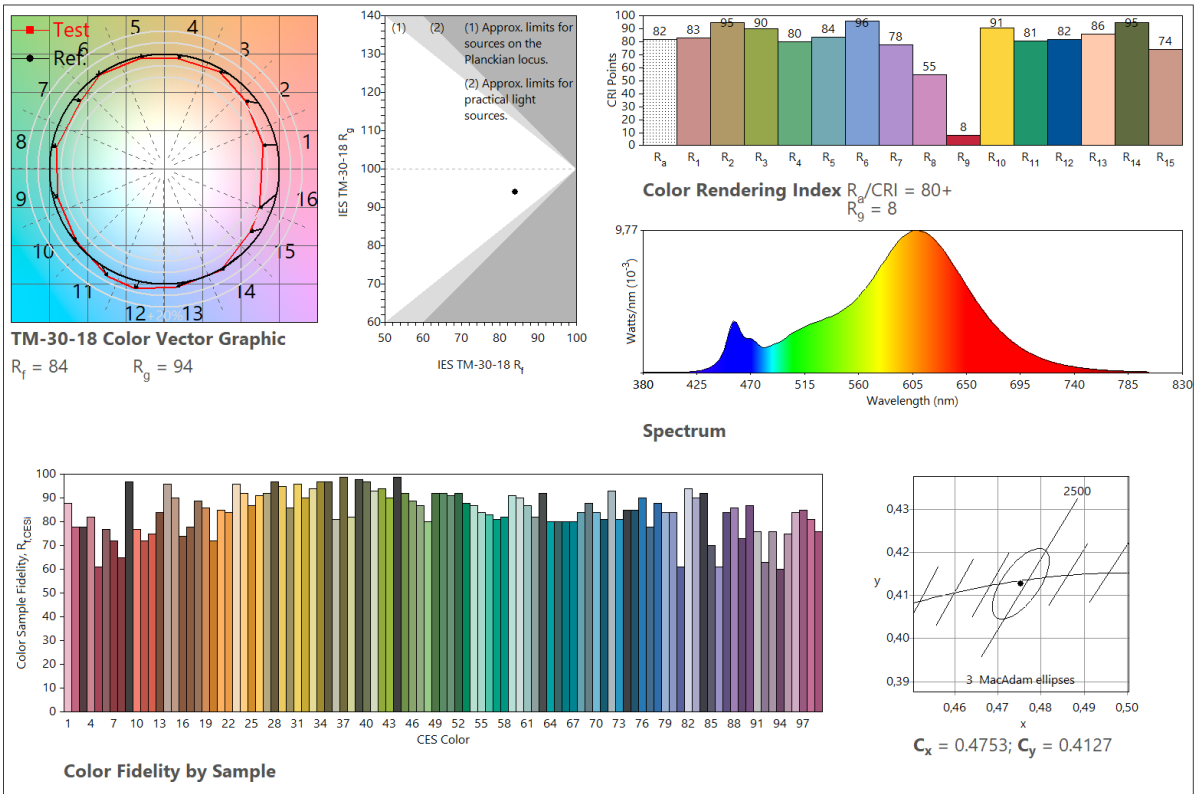


Color output data CRI 80+

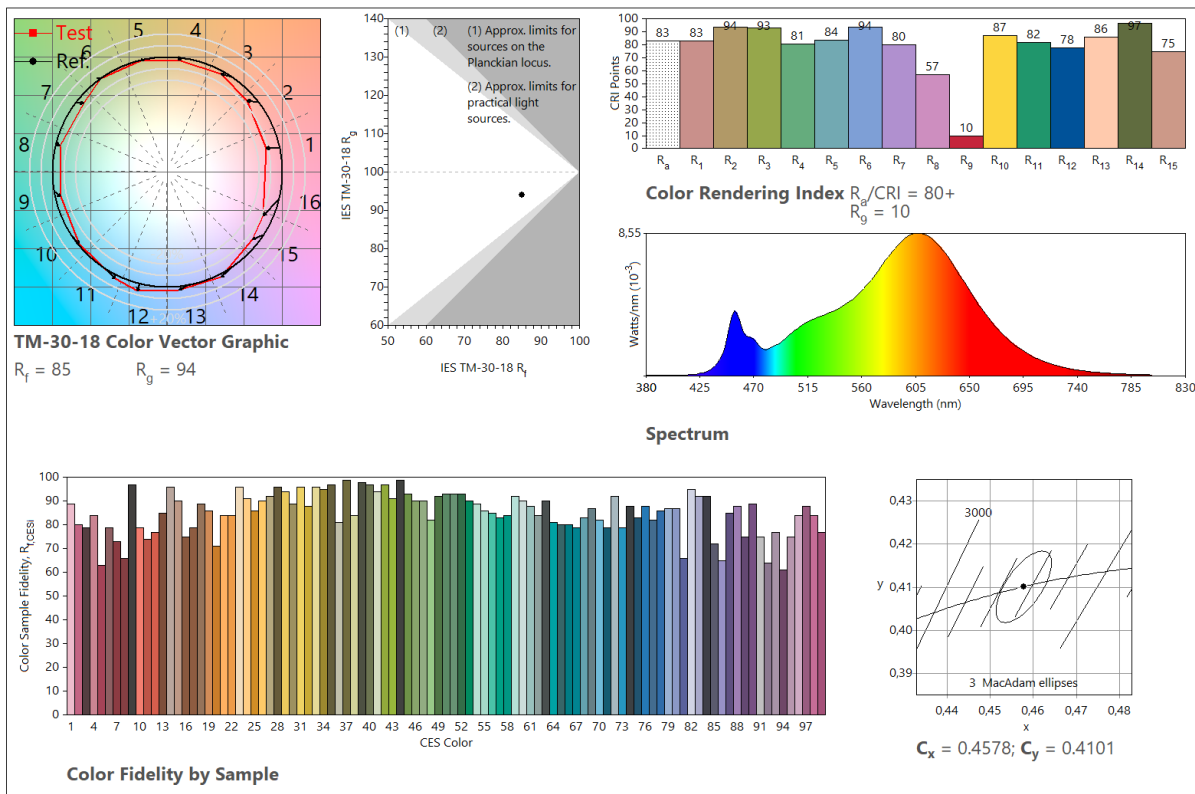
LFxx00S-G5-822-yy Lz



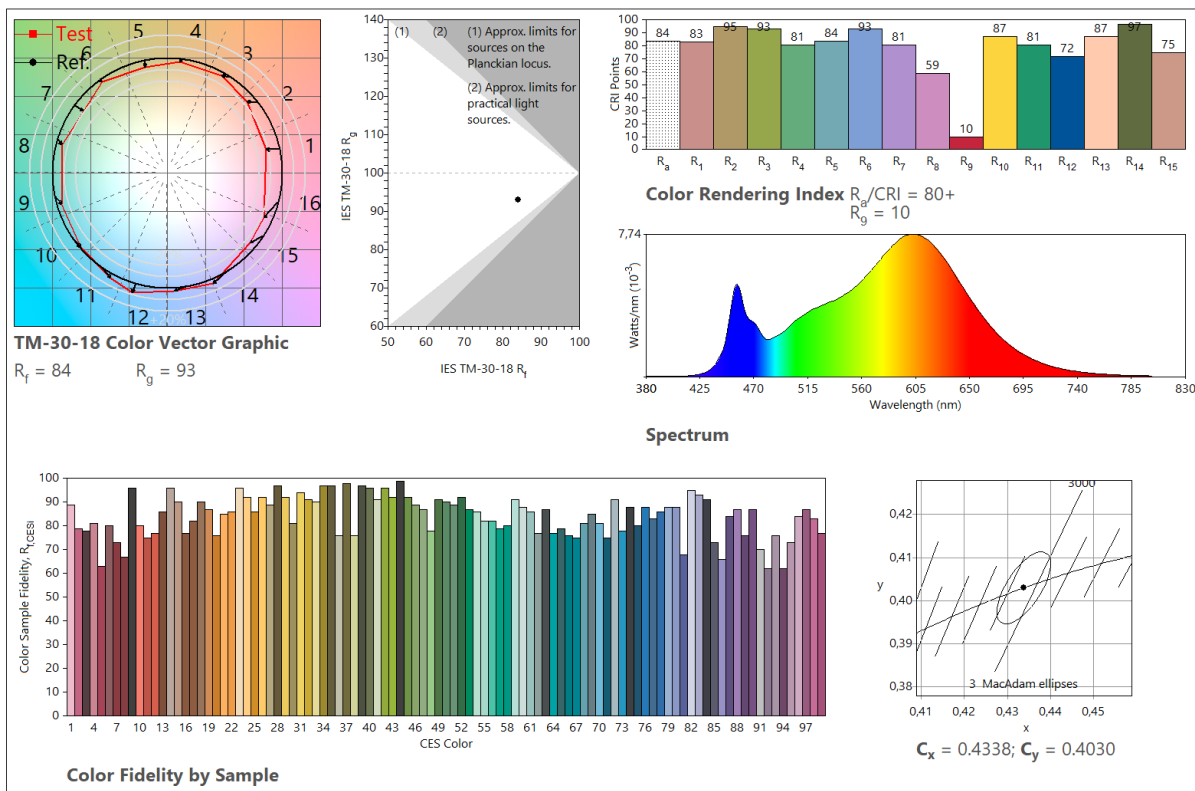
LFxx00S-G5-825-yy Lz



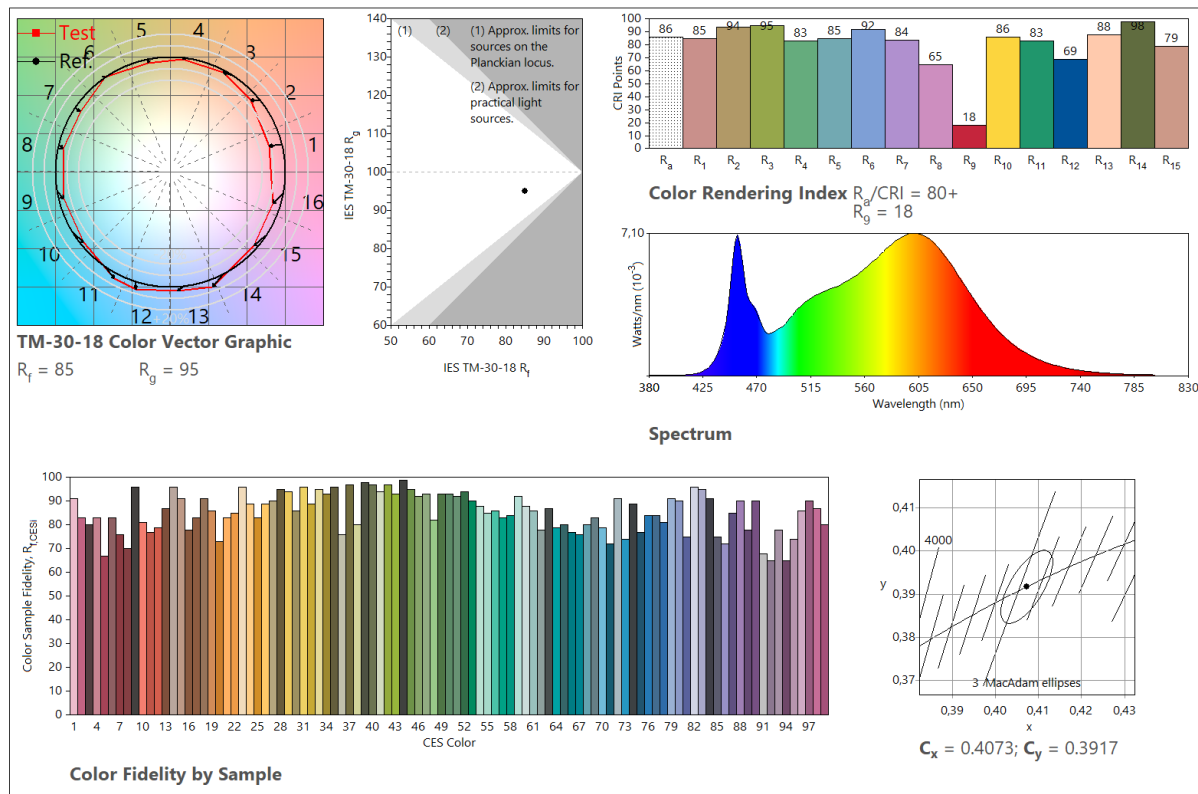
LFxx00S-G5-827-yy Lz



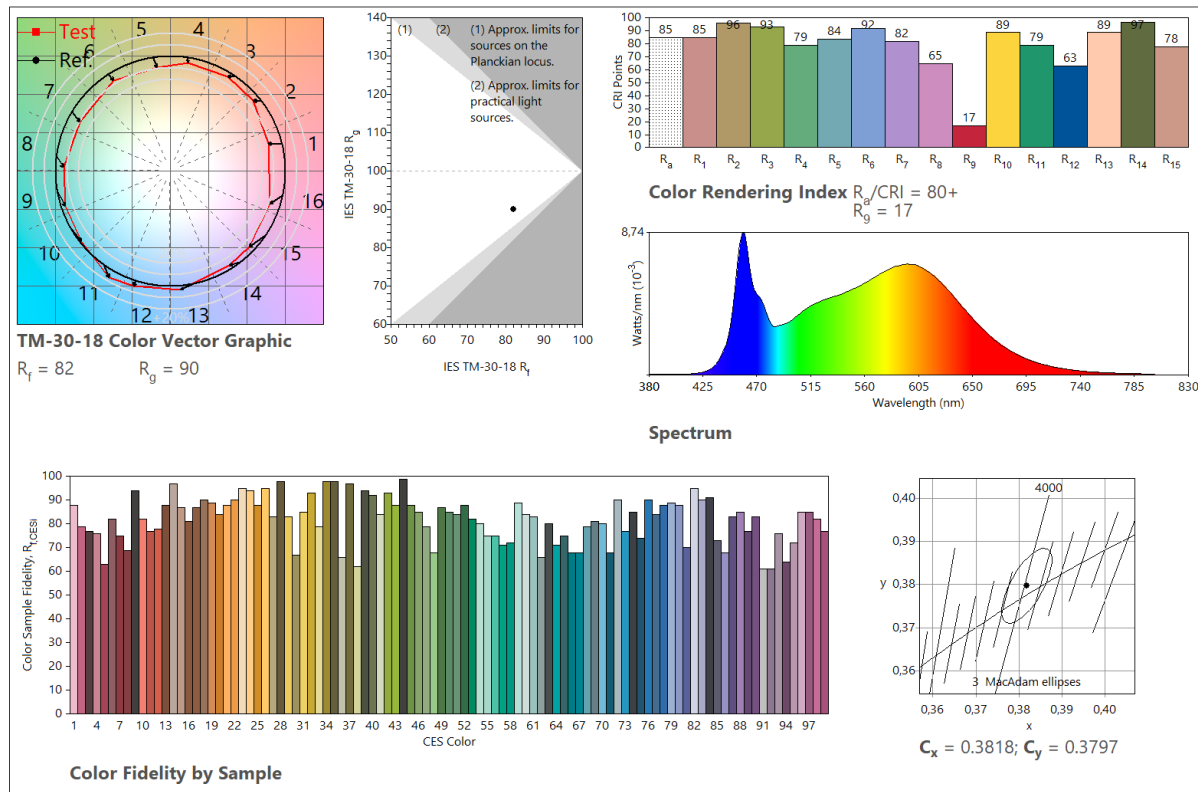
LFxx00S-G5-830-yy Lz



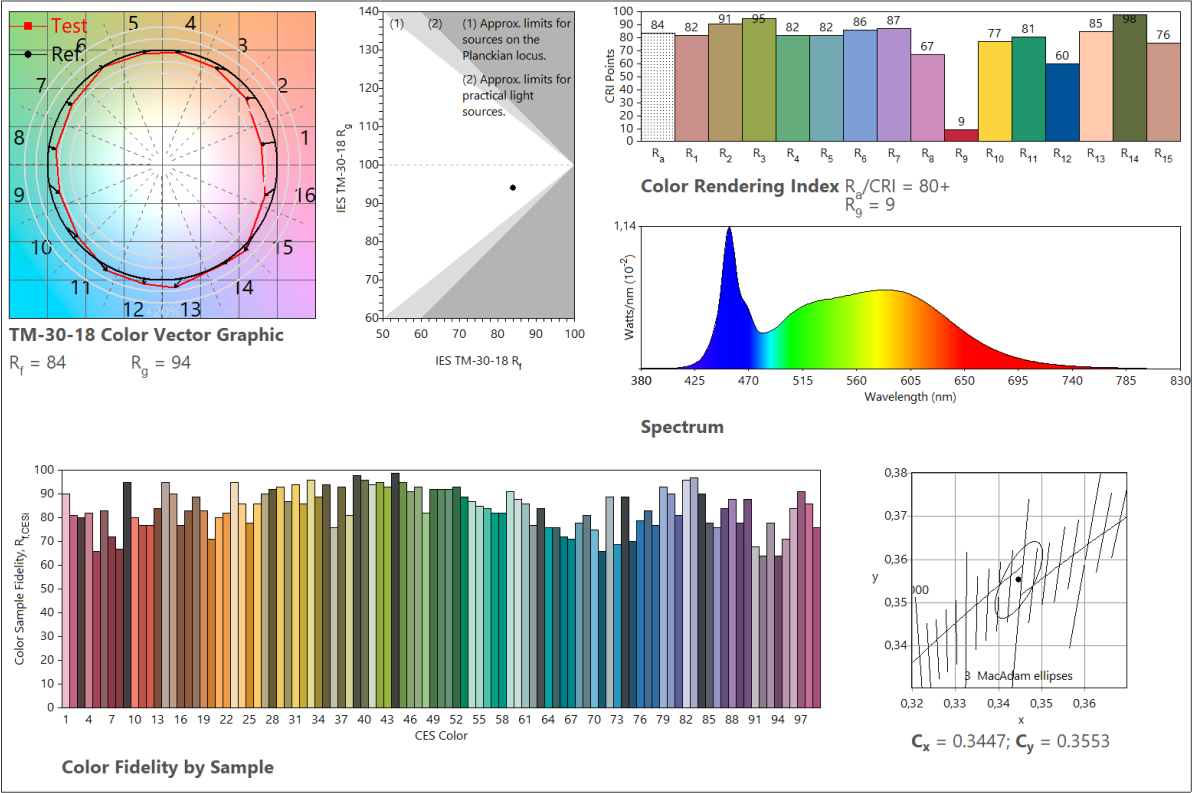
LFxx00S-G5-835-yy Lz



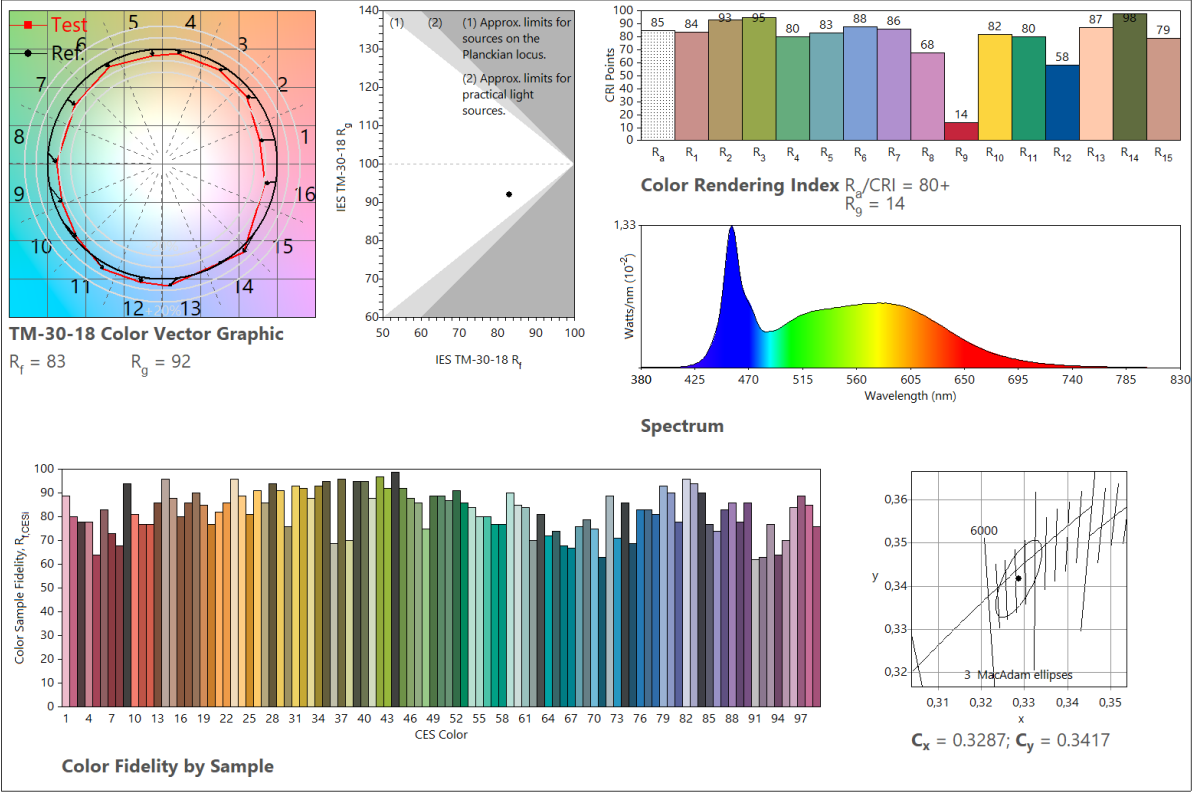
LFxx00S-G5-840-yy Lz



LFxx00S-G5-850-yy Lz



LFxx00S-G5-857-yy Lz



Top Left: TM-30-18 Color Vector Graphic

Legend: ■ Test, ● Ref.

Color Vector Graphic showing the relationship between color rendering index (R_i) and color fidelity (R_g). The plot shows a circular locus of color vectors, with the red locus representing the 'Test' and the black locus representing the 'Ref.' (Reference).

Top Right: Color Rendering Index (R_i) and R_g Bar Chart

Color Rendering Index (R_i) and R_g values for 15 test samples:

Sample	R_i	R_g
R_a	84	84
R_1	83	83
R_2	91	91
R_3	93	93
R_4	82	82
R_5	82	82
R_6	85	85
R_7	88	88
R_8	70	70
R_9	13	13
R_{10}	76	76
R_{11}	81	81
R_{12}	55	55
R_{13}	86	86
R_{14}	97	97
R_{15}	78	78

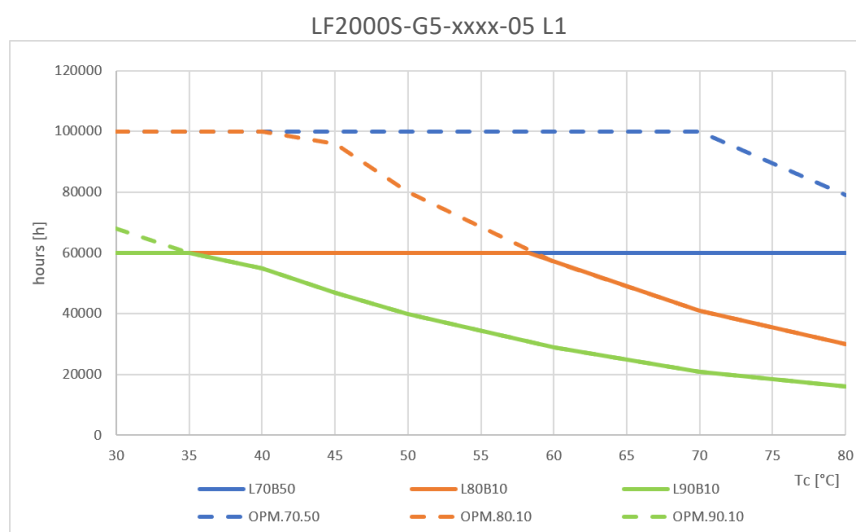
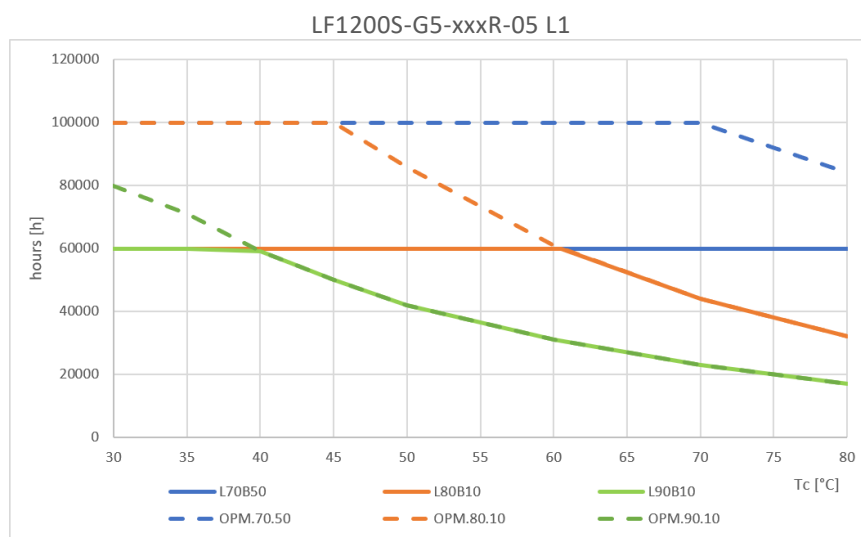
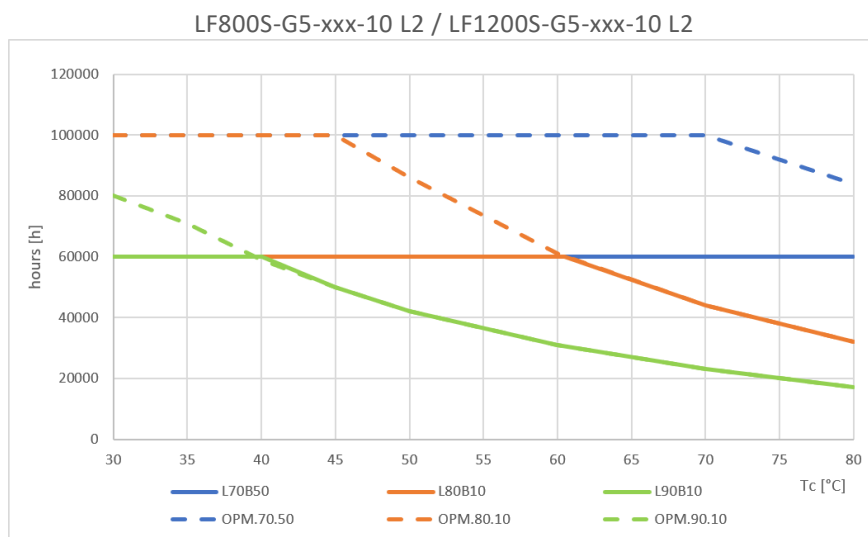
Bottom Left: Color Fidelity by Sample Bar Chart

Color Fidelity by Sample (R_{cs}) for 49 color samples (CES Color). The chart shows the distribution of color fidelity values across the color space.

Bottom Right: MacAdam ellipses

MacAdam ellipses plot showing the relationship between color coordinates x and y . The plot includes 3 MacAdam ellipses and a point labeled '0000'.

Lifetime charts



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

Packaging content

Product type	EAN10 Package content
LF800S-G5-xxx-10 L2	1 x Led strip; 2 x flying leads (one each end) factory assembled
LF1200S-G5-xxx-10 L2	1 x Led strip; 2 x flying leads (one each end) factory assembled
LF1200S-G5-xxxR-05 L1	1 x Led strip; 1 x flying lead factory assembled
LF2000S-G5-xxx-05 L1	1 x Led strip; 1 x flying lead factory assembled

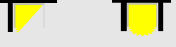
Installation accessories

	Product Type	Product description	Product code (EAN10)	EAN10 Package content	MOQ
New		2pin Connector 500mm cable CONN-FLEX-2P-050 KIT 10PCS	4062172179591	10x Connectors	10
New		2pin Connector 2000mm cable CONN-FLEX-2P-200 KIT 10PCS	4062172179614	10x Connectors	10
		Jumper FX-SC08-G2-CT4PJ	4052899464858	25x Jumpers	25
New		Bridge 30 mm cable CORNER-FLEX-4P-003 KIT 10PCS	4062172179638	10x Bridges	10
New		Bridge 150 mm cable CORNER-FLEX-4P-015 KIT 10PCS	4062172179676	10x Bridges	10
		2pin Connector 500mm cable FX-SC08-G2-CT2PF-0500	4052899464735	20x Connector	20
		2pin Connector 1000mm cable FX-SC08-G2-CT2PF-1000	4052899464766	20x Connector	20
		Extension wire 30 mm cable FX-SC08-G1-FW4P-LIN-0030	4008321875587	100x Extension wire	100
		Extension wire 150 mm cable FX-SC08-G1-FW4P-LIN-0150	4008321875563	50x Extension wire	50
		Extension wire 300 mm cable FX-SC08-G1-FW4P-LIN-0300	4052899469259	50x Extension wire	50

Note: All LINEARlight Flex LED strips are fully compatible with OSRAM OT and OTi LED drivers and dimmers.

Profile System compatibility

The table reports the maximum recommended ambient temperature for each listed profile in combination with the listed products, in case of surface or recessed mounting. In these conditions the expected T_c of LED strip is the maximum allowed.

Data valid for following products: LF800S-G5 ALL versions LF1200S-G5 ALL versions LF2000S-G5 versions: 830 – 835 – 840 – 850 – 857 – 865				SURFACE MOUNTING 	RECESSED MOUNTING 
Track Type	Product description	Product code (EAN)			
 Slim Profile	LF-LTS-2100	4008321978981		50 °C	50 °C
 Slim Profile	FX-QMS-G1-TU15H6-300	4052899448865		50 °C	50 °C
 Slim Profile	FX-QMS-G1-TU15H6W3-300	4052899448889		50 °C	50 °C
 Slim Profile	FX-QMS-G1-TU16H12-300	4052899448964		50 °C	50 °C
 Slim Profile	FX-QMS-G1-TU16H12W3-300	4052899448988		50 °C	50 °C
 Slim Profile	FX-QMS-G1-TR19H16-300	4052899449008		50 °C	50 °C
 Slim Profile	FX-QMS-G1-TU16H12LS-300	4052899449046		50 °C	50 °C
 Slim Profile	FX-QMS-G1-T45D19H19-300	4052899448667		50 °C	50 °C
 Wide Profile	FX-QMW-G1-TK30D46H27-300	4052899448827		50 °C	50 °C
 Wide Profile	FX-QMW-G1-TU26H8-300	4052899448643		50 °C	50 °C
 Wide Profile	FX-QMW-G1-TU26H25W10-300	4052899448773		50 °C	50 °C
 Wide Profile	FX-QMW-G1-TU26H25W2-300	4052899448841		50 °C	50 °C
 Wide Profile	FX-QMW-G1-TU26H25-300	4052899448803		50 °C	50 °C

The table reports the maximum recommended ambient temperature for each listed profile in combination with the listed products, in case of surface or recessed mounting. In these conditions the expected T_c of LED strip is the maximum allowed.

Data valid for following products: LF2000S-G5 versions: 822 – 825 – 827 → “A” LF2000S-G5 versions: 922 – 925 → “B” LF2000S-G5 versions: 927 – 930 – 935 – 940 – 950 – 957 – 965 → “A” LF2000S-G5 versions: 9xxR (CRI95+) → “A”				SURFACE MOUNTING 		RECESSED MOUNTING 	
Track Type	Product description	Product code (EAN)		“A”	“B”	“A”	“B”
 Slim Profile	LF-LTS-2100	4008321978981		47 °C	42 °C	38 °C	33 °C
 Slim Profile	FX-QMS-G1-TU15H6-300	4052899448865		47 °C	42 °C	35 °C	30 °C
 Slim Profile	FX-QMS-G1-TU15H6W3-300	4052899448889		47 °C	42 °C	35 °C	30 °C
 Slim Profile	FX-QMS-G1-TU16H12-300	4052899448964		50 °C	45 °C	40 °C	37 °C
 Slim Profile	FX-QMS-G1-TU16H12W3-300	4052899448988		50 °C	45 °C	40 °C	37 °C
 Slim Profile	FX-QMS-G1-TR19H16-300	4052899449008		50 °C	45 °C	40 °C	37 °C
 Slim Profile	FX-QMS-G1-TU16H12LS-300	4052899449046		50 °C	45 °C	40 °C	37 °C
 Slim Profile	FX-QMS-G1-T45D19H19-300	4052899448667		50 °C	47 °C	45 °C	37 °C
 Wide Profile	FX-QMW-G1-TK30D46H27-300	4052899448827		50 °C	50 °C	50 °C	48 °C
 Wide Profile	FX-QMW-G1-TU26H8-300	4052899448643		50 °C	45 °C	45 °C	42 °C
 Wide Profile	FX-QMW-G1-TU26H25W10-300	4052899448773		50 °C	45 °C	45 °C	40 °C
 Wide Profile	FX-QMW-G1-TU26H25W2-300	4052899448841		50 °C	45 °C	45 °C	40 °C
 Wide Profile	FX-QMW-G1-TU26H25-300	4052899448803		50 °C	45 °C	45 °C	40 °C

Note: the tables are for application evaluation only; always ensure that T_c will not exceed the maximum allowed value.

For further information please write to flex-support@osram.com
or consult our Flex Configurator at www.osram.com/flex-configurator

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: www.osram.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 OSRAM 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.

** Always ensure that Tc will not exceed the maximum allowed value.

OSRAM GmbH

Head Office:

Marcel-Breuer-Strasse 6
80807 Munich, Germany
Phone +49 89 6213-0
Fax +49 89 6213-2020
www.osram.com

OSRAM