

Light is OSRAM

OSRAM

LINEARlight FLEX Protect Uniformity



Weatherproof LED strip for high quality homogeneous lighting
LFP800S-G5 / LFP1200S-G5 / LFP2000S-G5



Features & Benefits

- Durable IP67/IP68 - fully sealed and filled with crystalline optical grade silicone; can be cut and re-sealed each 50 mm
- Outdoor use possible: UV and salt mist tested
- 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 T_p , 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
- Reel-to-Reel technology, 140 LED/m
- Top reliability with Reel-to-Reel technology, 140 LED/m
- High speed protection in case of accidental miswiring up to 25V
- Available also in non-IP versions for indoor use.
- Made in Italy

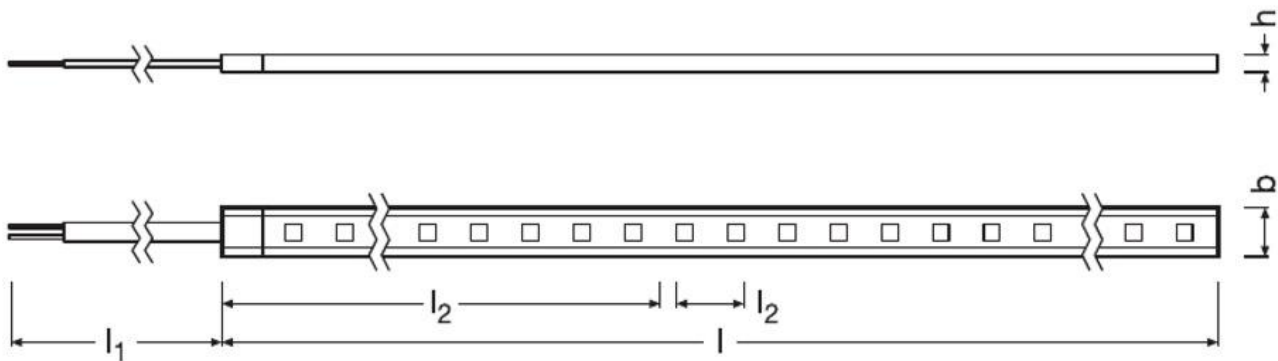
Application areas

Direct and indirect lighting in outdoor or wet areas, where long lasting lighting performances are key for preserving value and prestige of lit locations.

Standards

CE, UL recognized component according to UL 8750; ENEC, EAC, VDE according to ENEC 10
Photometric data acc. to: LM-80 and TM-21, LM-79, EN13032-4, CIE S 025, IES TM-30-15

Technical data

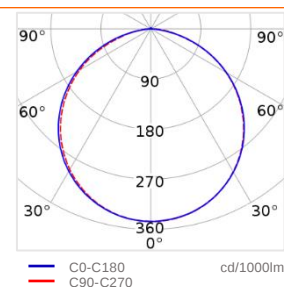


CRI80 / 90	L [mm]	L1 [mm]	L2 [mm]	H [mm]	B [mm]
LFP800S	10000	500	7.14	4.5	11.1
LFP1200S	10000	500	7.14	4.5	11.1
LFP2000S	5000	500	7.14	4.5	11.1
CRI95	L [mm]	L1 [mm]	L2 [mm]	H [mm]	B [mm]
LFP800S	10000	500	7.14	4.5	11.1
LFP1200S	5000	500	7.14	4.5	11.1
LFP2000S	5000	500	7.14	4.5	11.1

Lowest Bending Radius = 50 mm

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

Nominal Voltage	24.0 V
Reverse voltage protection up to	25.0 V
Temperature range in operation @ Tc point	-30 °C...+80 °C
Storage Temperature	-40 °C...+85 °C
Ambient Temperature with profile **	-30 °C...+50 °C



Technical data

	CRI 90+	Nominal CCT See color output data	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Beam Angle 120° Order Code	Length m
800 lm/m	LFP800S-G5-927-10 L1	2700 K	840	9,2	91	4062172303613	10
	LFP800S-G5-930-10 L1	3000 K	840	8	105	4062172303637	10
	LFP800S-G5-935-10 L1	3500 K	840	7,5	112	4062172303651	10
	LFP800S-G5-940-10 L1	4000 K	840	7,5	112	4062172303675	10
	LFP800S-G5-947-10 L1	4700 K	840	7,5	112	4062172303699	10
	LFP800S-G5-957-10 L1	5700 K	840	7	120	4062172303712	10
	LFP800S-G5-980-10 L1	8000 K	840	7	120	4062172303736	10
1200 lm/m	LFP1200S-G5-927-10 L1	2700 K	1100	11,6	95	4062172303996	10
	LFP1200S-G5-930-10 L1	3000 K	1200	11,6	103	4062172304016	10
	LFP1200S-G5-935-10 L1	3500 K	1200	10,9	110	4062172304030	10
	LFP1200S-G5-940-10 L1	4000 K	1200	10,9	110	4062172304054	10
	LFP1200S-G5-947-10 L1	4700 K	1200	10,9	110	4062172304078	10
	LFP1200S-G5-957-10 L1	5700 K	1200	10	120	4062172304092	10
	LFP1200S-G5-980-10 L1	8000 K	1200	10	120	4062172304115	10
2000 lm/m	LFP2000S-G5-927-05 L1	2700 K	1900	21	90	4062172304375	5
	LFP2000S-G5-930-05 L1	3000 K	2000	19,6	102	4062172304399	5
	LFP2000S-G5-935-05 L1	3500 K	2000	18,5	108	4062172304412	5
	LFP2000S-G5-940-05 L1	4000 K	2000	18,5	108	4062172304436	5
	LFP2000S-G5-947-05 L1	4700 K	2000	18,5	108	4062172304450	5
	LFP2000S-G5-957-05 L1	5700 K	2000	17,3	116	4062172304474	5
	LFP2000S-G5-980-05 L1	8000 K	2000	17,3	116	4062172304498	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	LFP800S-G5-927R-10 L1	2700 K	860	9,5	91	4062172303750	10
	LFP800S-G5-930R-10 L1	3000 K	860	8,3	104	4062172303774	10
	LFP800S-G5-935R-10 L1	3500 K	860	8,3	104	4062172303798	10
	LFP800S-G5-940R-10 L1	4000 K	840	7,3	115	4062172303811	10
1200 lm/m	LFP1200S-G5-927R-05 L1	2700 K	1240	14	89	4062172304139	5
	LFP1200S-G5-930R-05 L1	3000 K	1200	12	100	4062172304153	5
	LFP1200S-G5-935R-05 L1	3500 K	1200	12	100	4062172304177	5
	LFP1200S-G5-940R-05 L1	4000 K	1200	10,6	113	4062172304191	5
2000 lm/m	LFP2000S-G5-927R-05 L1	2700 K	1850	21	88	4062172304511	5
	LFP2000S-G5-930R-05 L1	3000 K	2000	19,5	103	4062172304535	5
	LFP2000S-G5-935R-05 L1	3500 K	2000	19,5	103	4062172304559	5
	LFP2000S-G5-940R-05 L1	4000 K	2000	18,1	110	4062172304573	5

Technical data

	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	LFP800S-G5-825-10 L1	2500 K	870	8	109	4062172303453	10
	LFP800S-G5-827-10 L1	2700 K	840	7,2	117	4062172303477	10
	LFP800S-G5-830-10 L1	3000 K	840	6,7	125	4062172303491	10
	LFP800S-G5-835-10 L1	3500 K	840	6,2	135	4062172303514	10
	LFP800S-G5-840-10 L1	4000 K	800	6,1	131	4062172303538	10
	LFP800S-G5-847-10 L1	4700 K	800	6,1	131	4062172303552	10
	LFP800S-G5-857-10 L1	5700 K	800	6,1	131	4062172303576	10
	LFP800S-G5-880-10 L1	8000 K	800	6,1	131	4062172303590	10
1200 lm/m	LFP1200S-G5-825-10 L1	2500 K	1250	11,6	108	4062172303835	10
	LFP1200S-G5-827-10 L1	2700 K	1220	10,6	115	4062172303859	10
	LFP1200S-G5-830-10 L1	3000 K	1220	9,8	124	4062172303873	10
	LFP1200S-G5-835-10 L1	3500 K	1220	9,6	127	4062172303897	10
	LFP1200S-G5-840-10 L1	4000 K	1200	9,4	128	4062172303910	10
	LFP1200S-G5-847-10 L1	4700 K	1200	9,4	128	4062172303934	10
	LFP1200S-G5-857-10 L1	5700 K	1200	9,4	128	4062172303958	10
	LFP1200S-G5-880-10 L1	8000 K	1200	9,4	128	4062172303972	10
2000 lm/m	LFP2000S-G5-825-05 L1	2500 K	2100	19,6	107	4062172304214	5
	LFP2000S-G5-827-05 L1	2700 K	2050	18,1	113	4062172304238	5
	LFP2000S-G5-830-05 L1	3000 K	2050	17,3	118	4062172304252	5
	LFP2000S-G5-835-05 L1	3500 K	2000	16	128	4062172304276	5
	LFP2000S-G5-840-05 L1	4000 K	2000	15,2	132	4062172304290	5
	LFP2000S-G5-847-05 L1	4700 K	2000	15,2	132	4062172304313	5
	LFP2000S-G5-857-05 L1	5700 K	2000	15,2	132	4062172304337	5
	LFP2000S-G5-880-05 L1	8000 K	2000	15,2	132	4062172304351	5

NOTE:

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

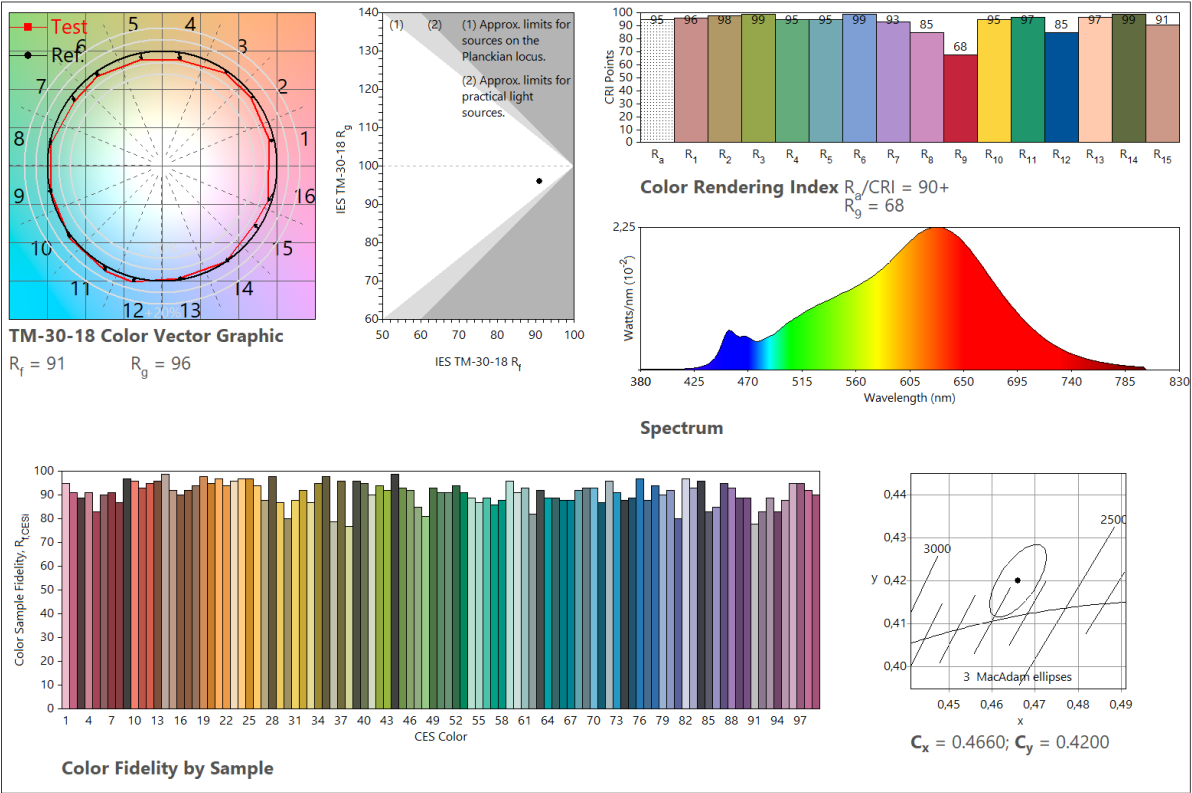
LFP800S → Tp = 30°C

LFP1200S → Tp = 35°C

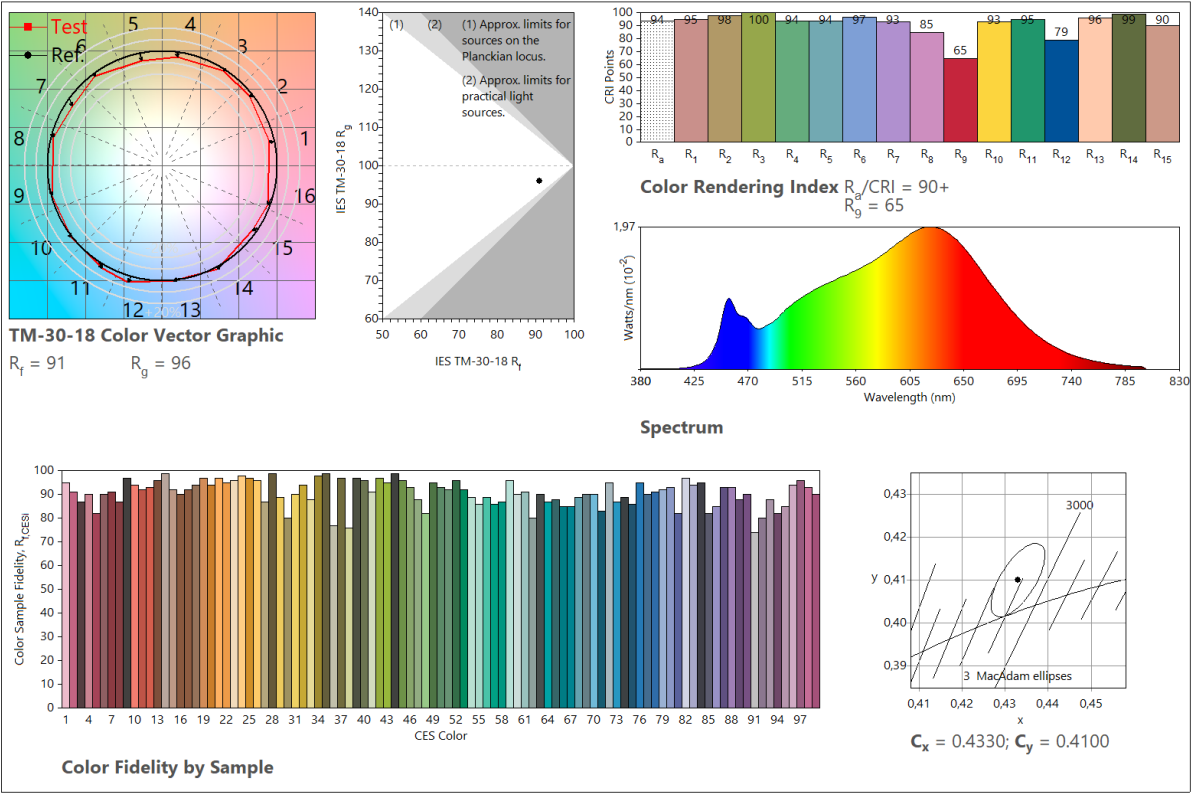
LFP2000S → Tp = 40°C

Color output data CRI 90+

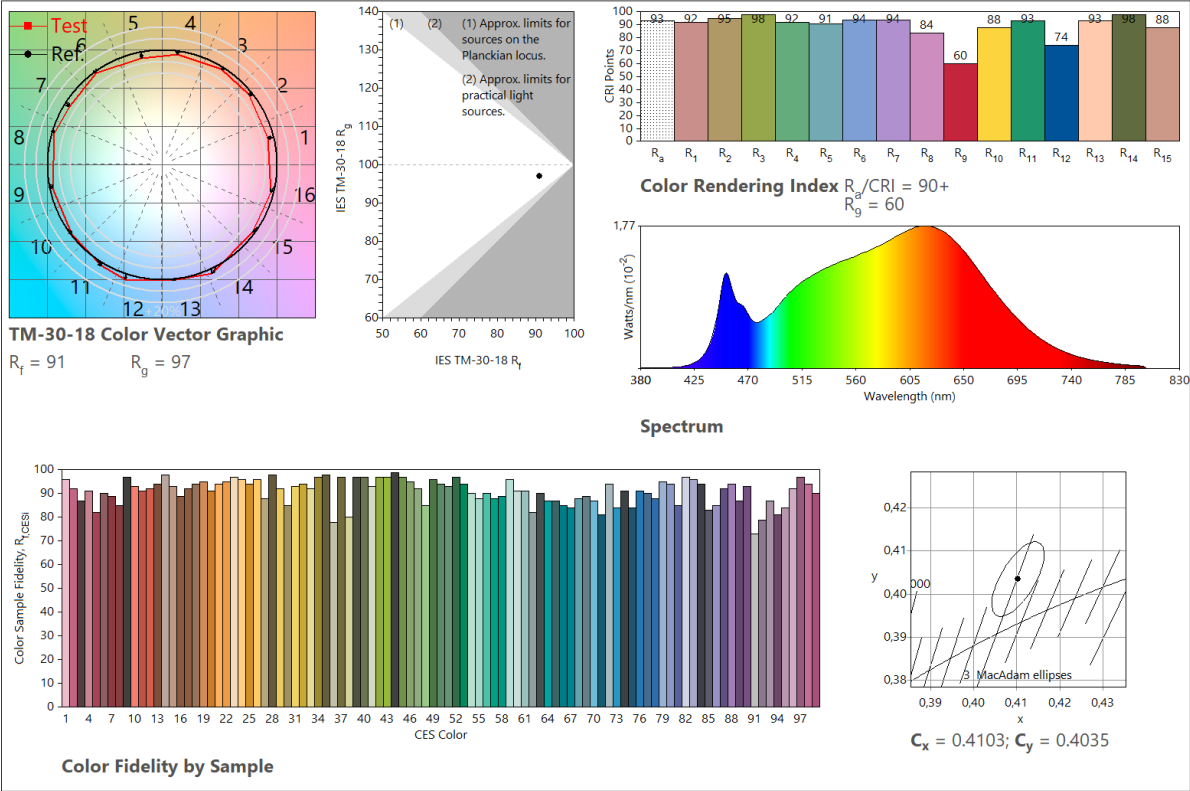
LFPxx00S-G5-927-yy



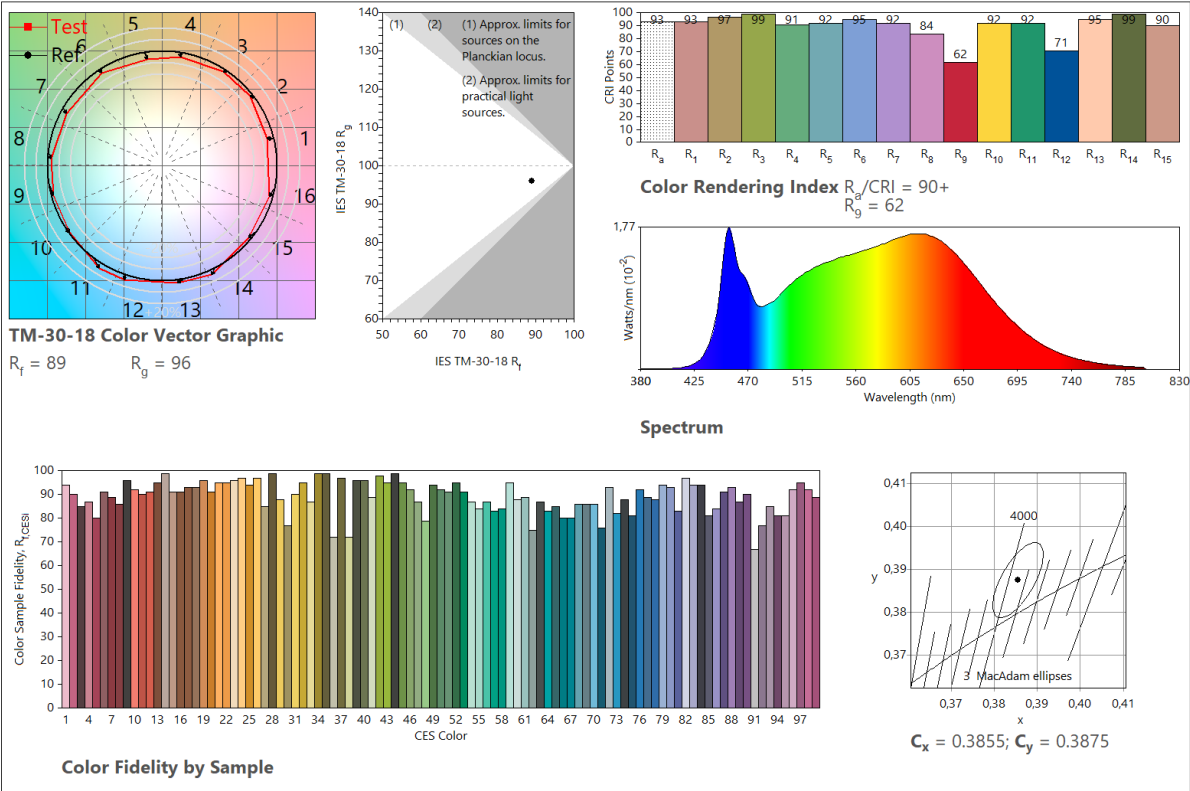
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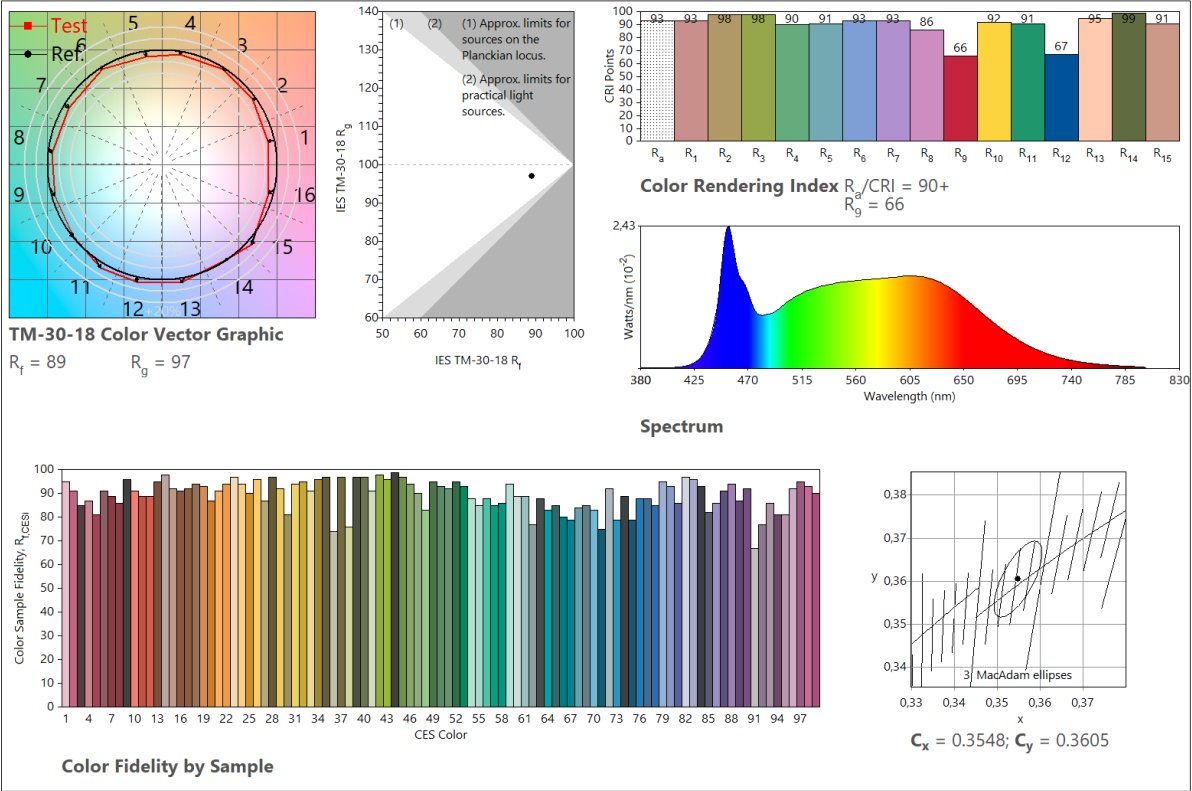
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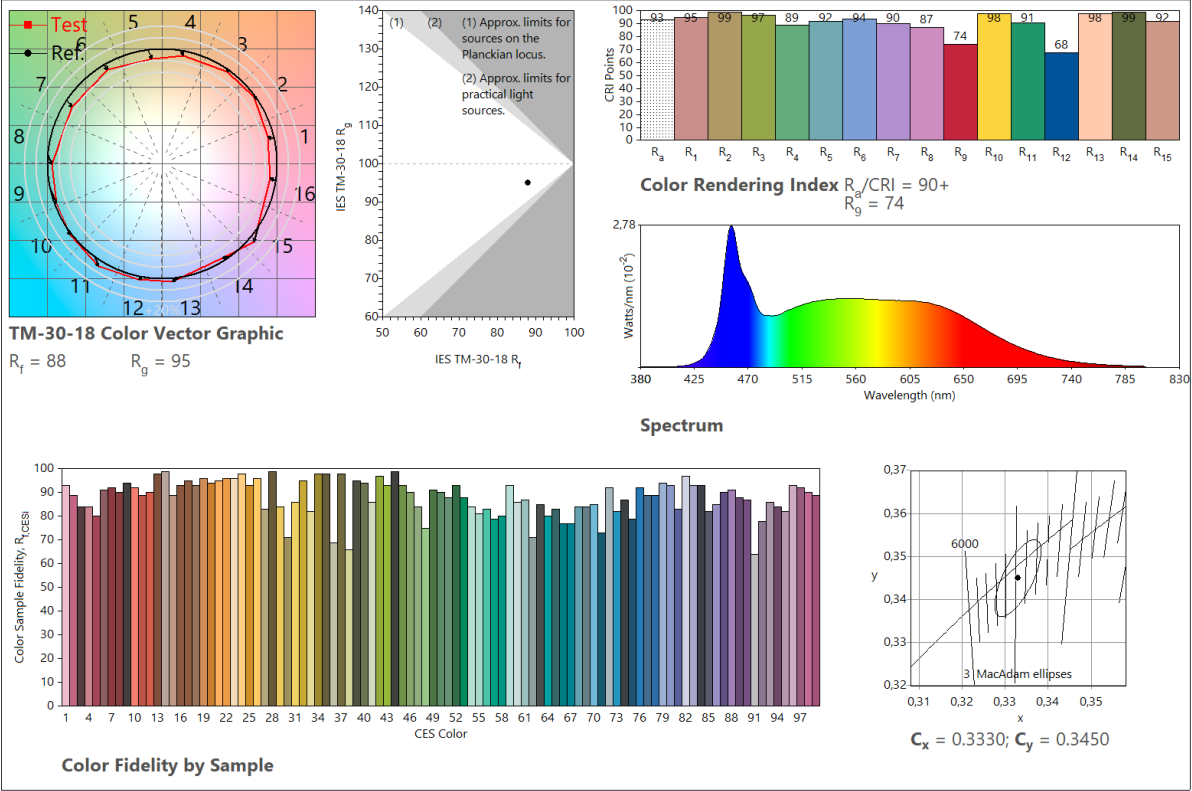
LFPxx00S-G5-940-yy



LFPxx00S-G5-947-yy



LFPxx00S-G5-957-yy



Top-left: TM-30-18 Color Vector Graphic

Legend: ■ Test, ● Ref.

Color Rendering Index: $R_i = 88$, $R_g = 95$

Top-right: IES TM-30-18 R_g

(1) Approx. limits for sources on the Planckian locus.
(2) Approx. limits for practical light sources.

Bottom-left: Color Sample Fidelity, R_{cs}

Color Fidelity by Sample

Bottom-right: Spectrum

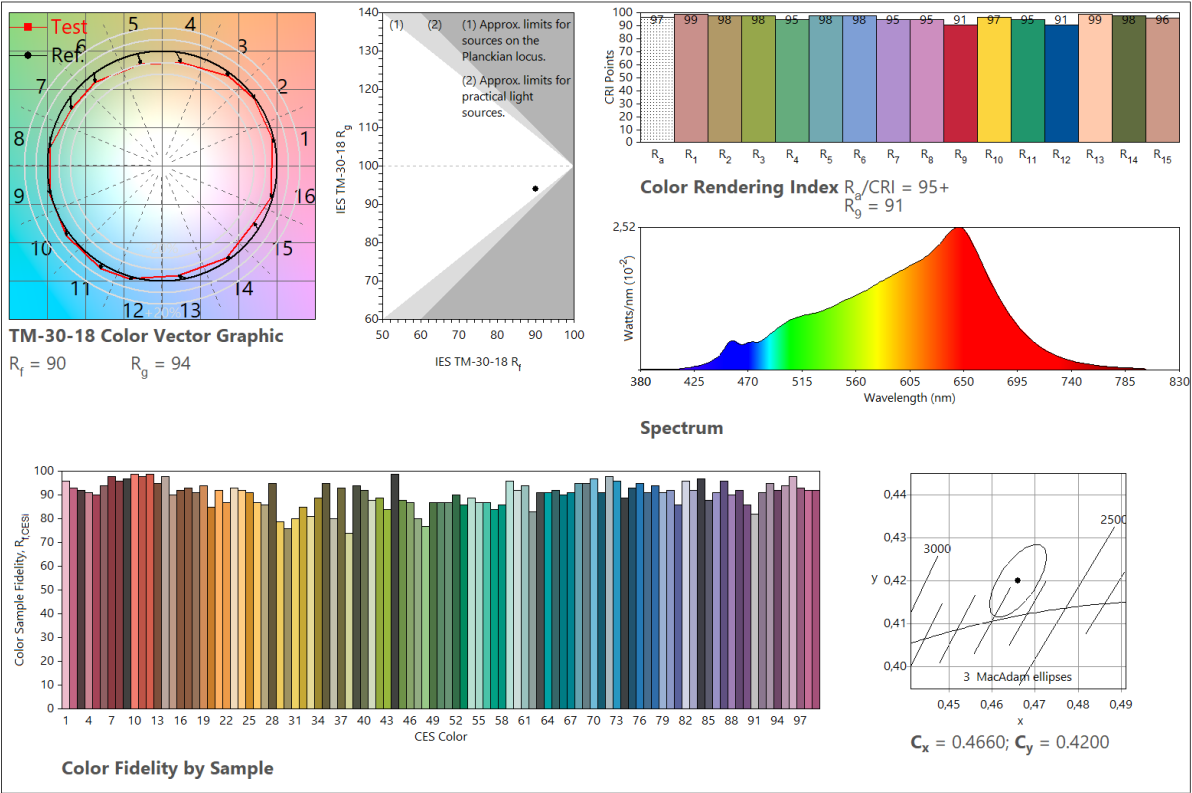
Color Rendering Index: $R_g / CRI = 90+$
 $R_g = 74$

Wavelength (nm)

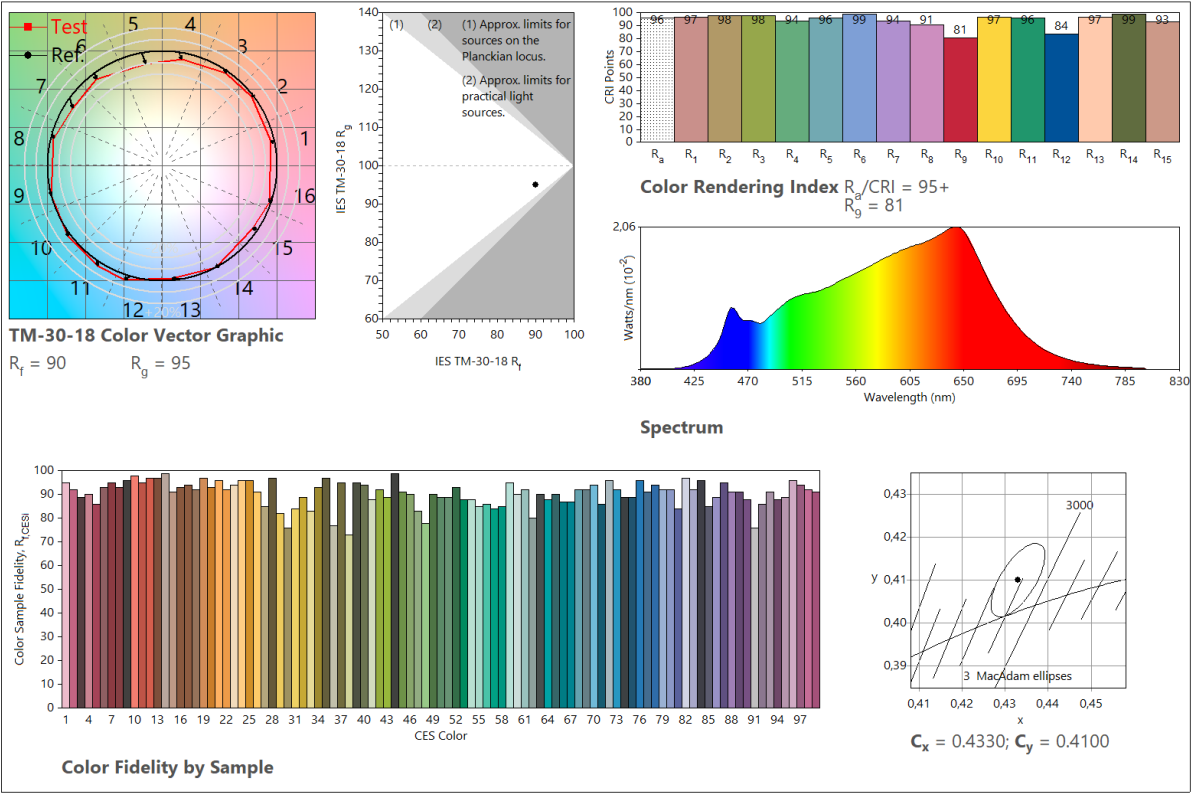
Color Difference: $C_x = 0.2980$; $C_y = 0.3080$

Color output data CRI 95+

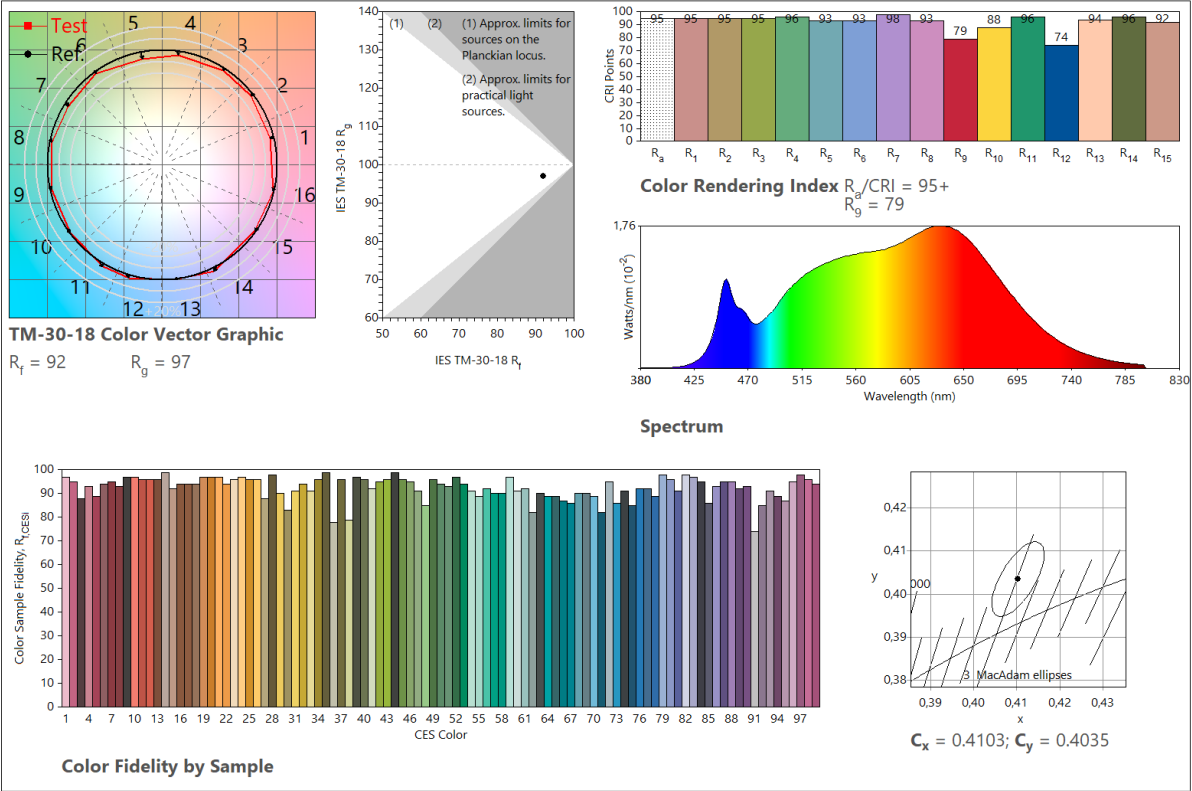
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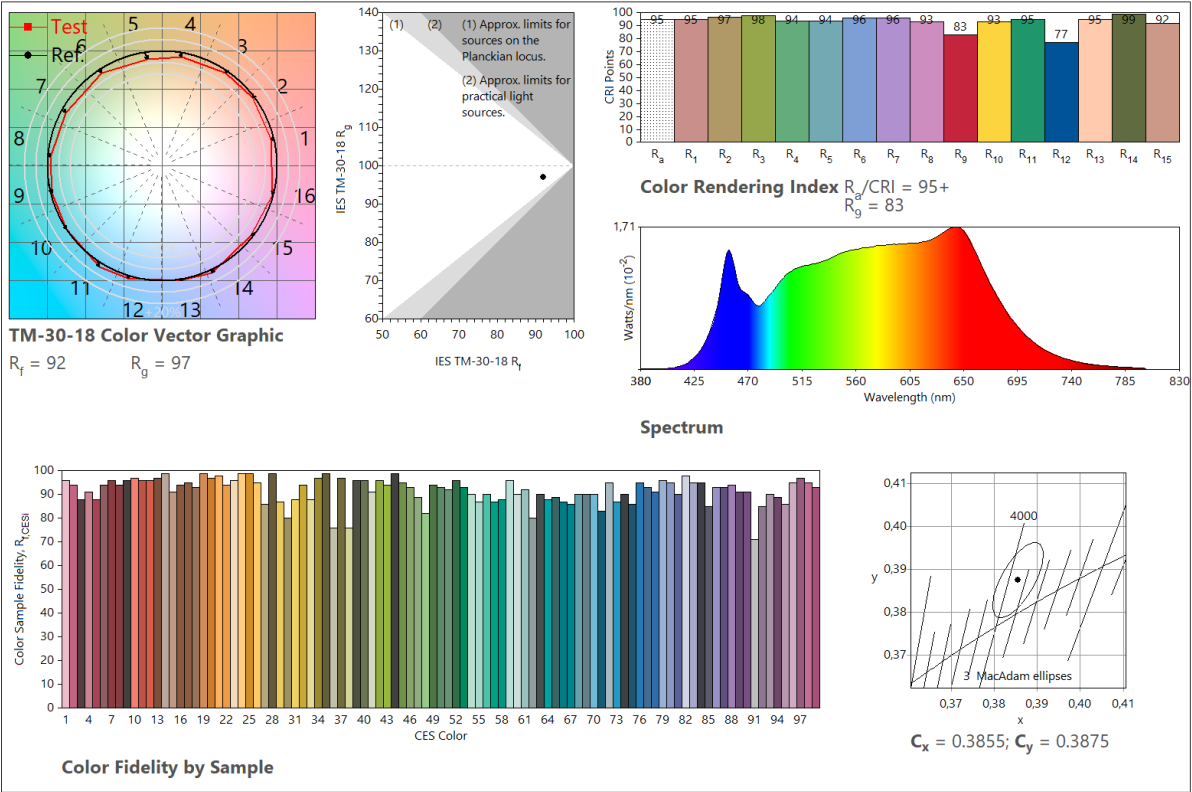
LFPxx00S-G5-930R-yy



LFPxx00S-G5-935R-yy

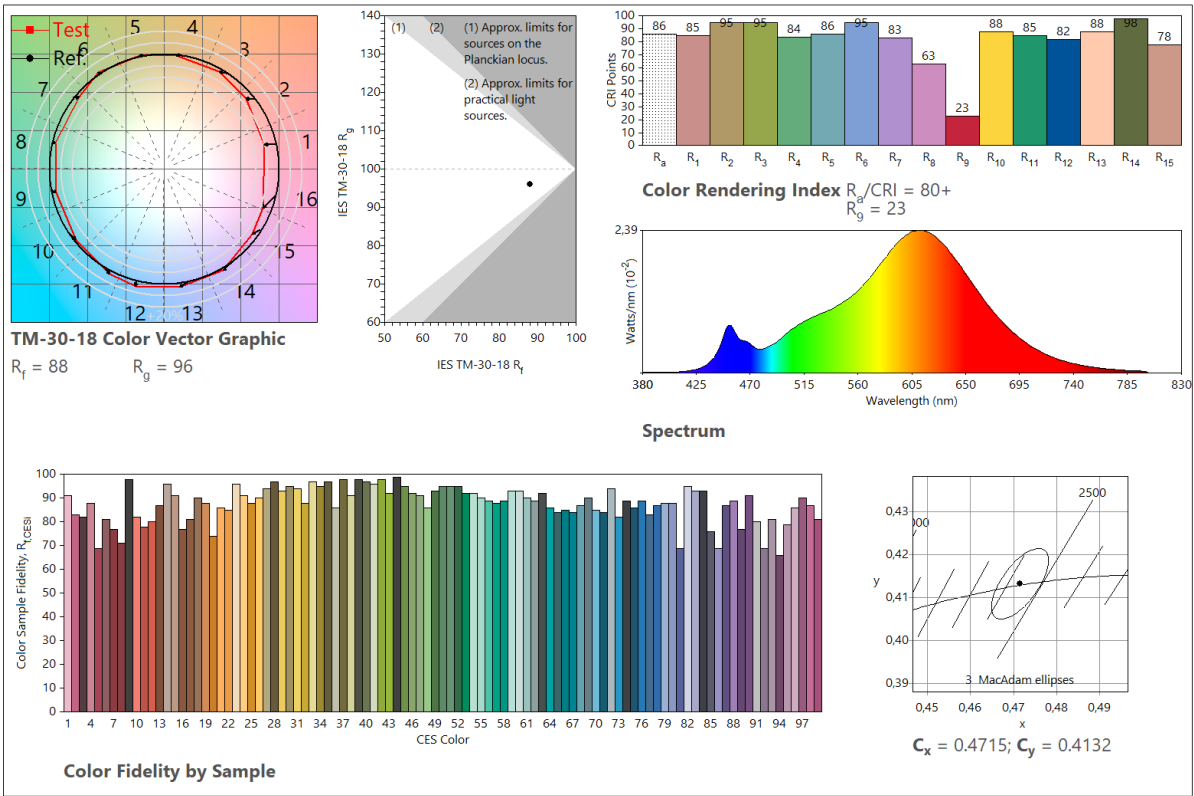


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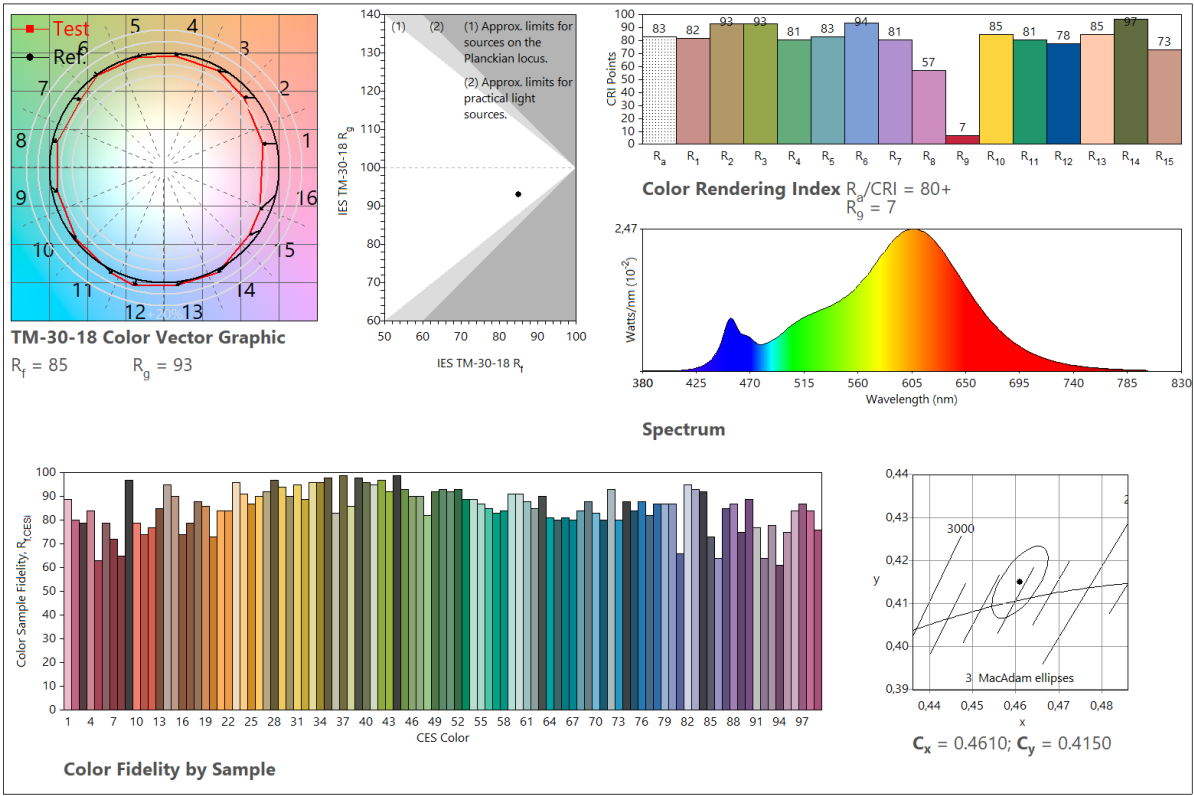


Color output data CRI 80+

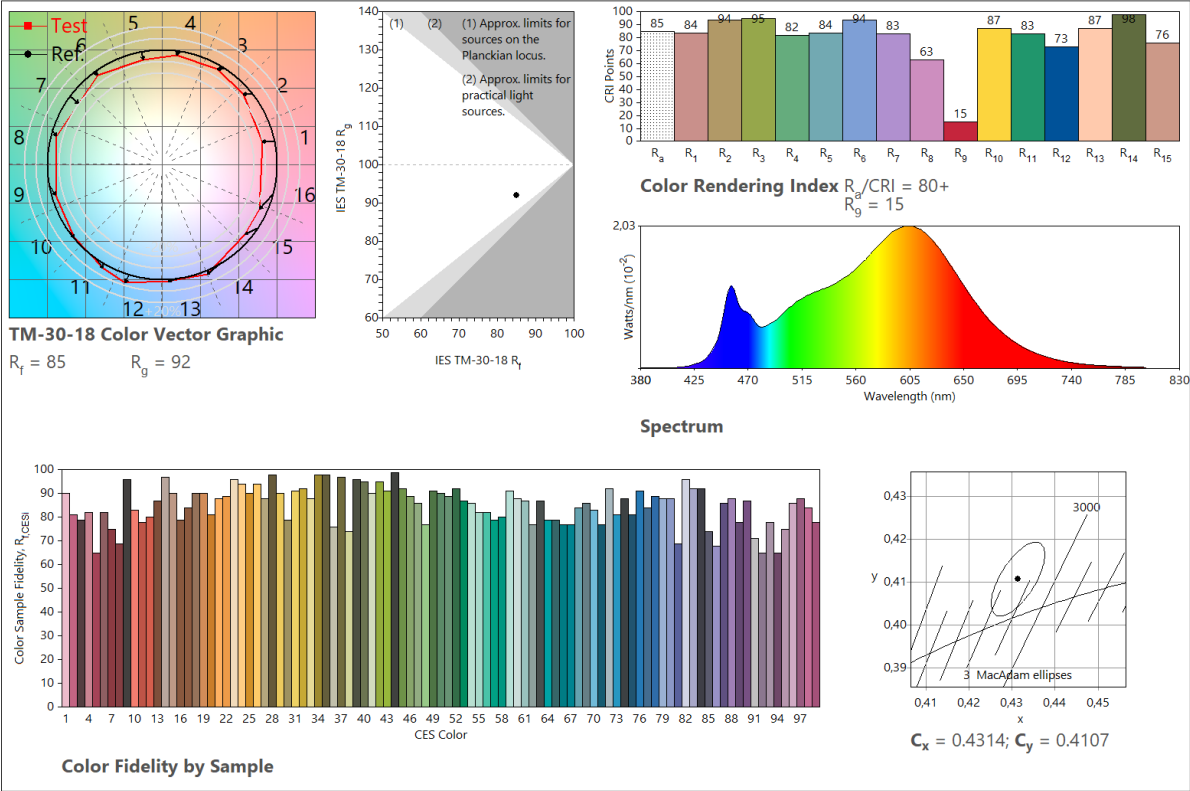
LFPxx00S-G5-825-yy



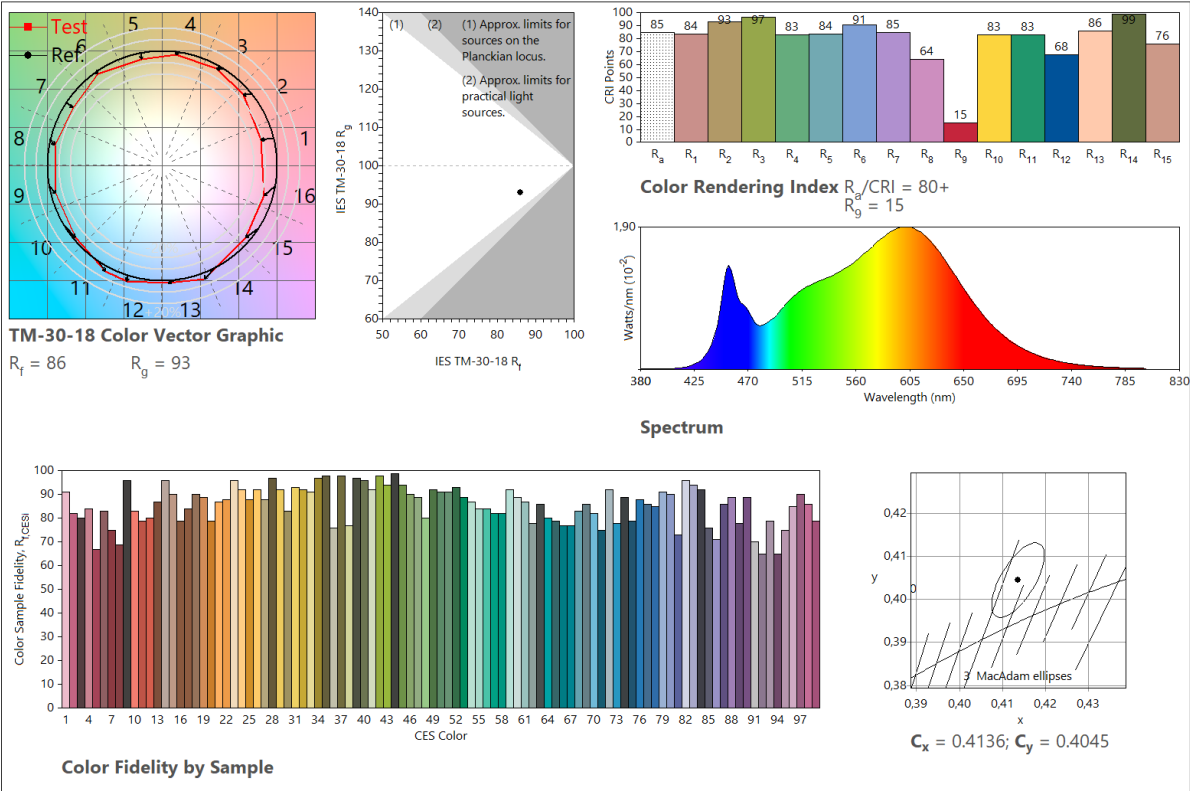
LFPxx00S-G5-827-yy



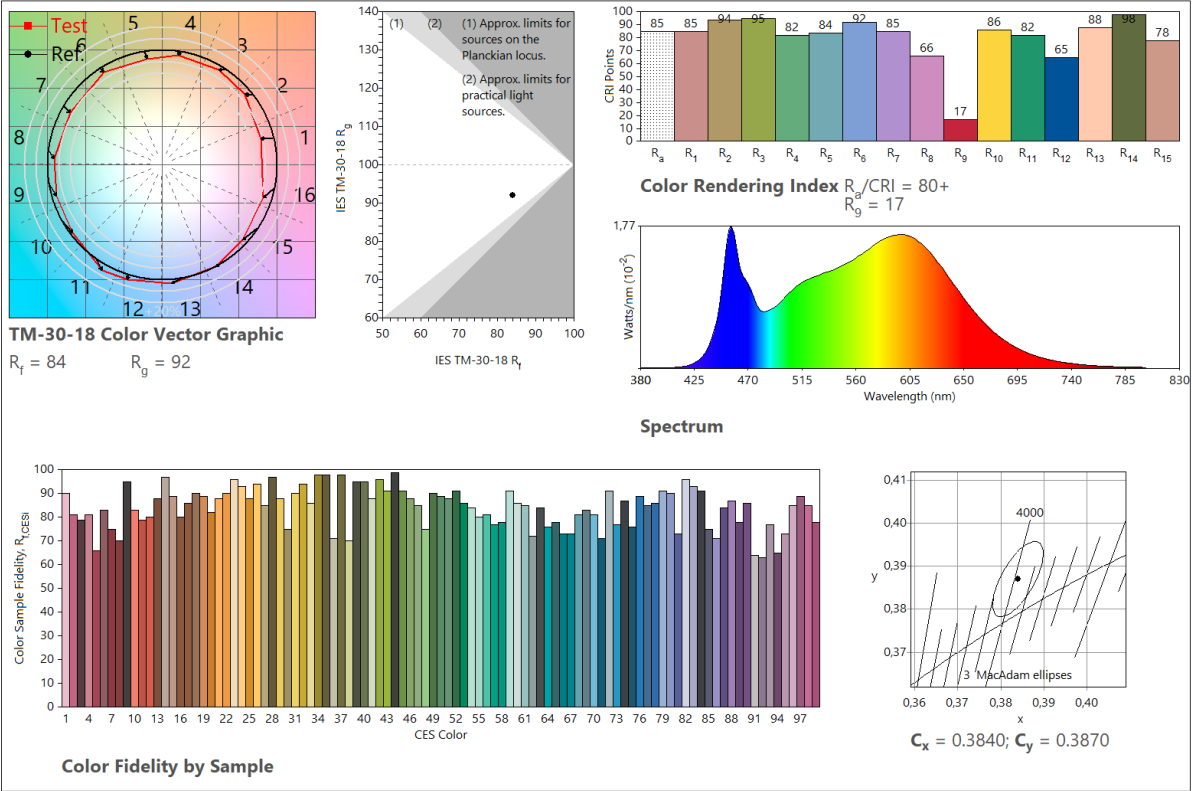
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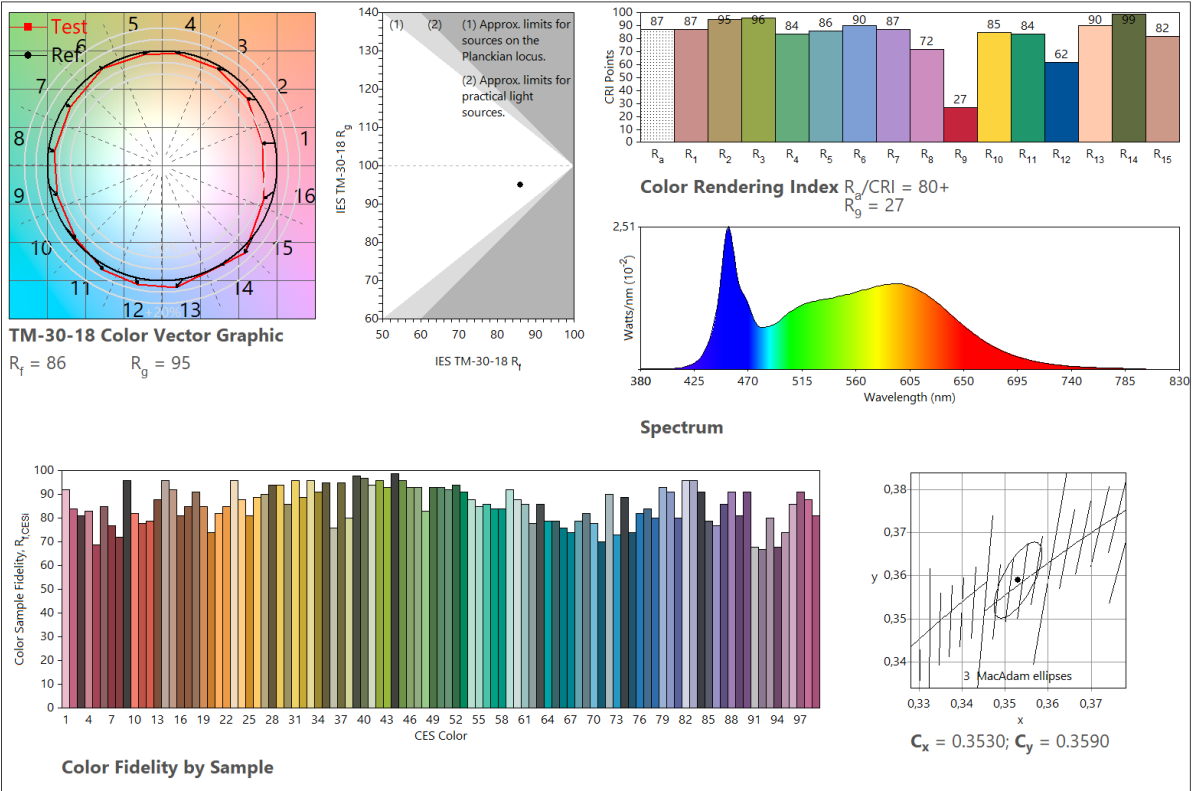
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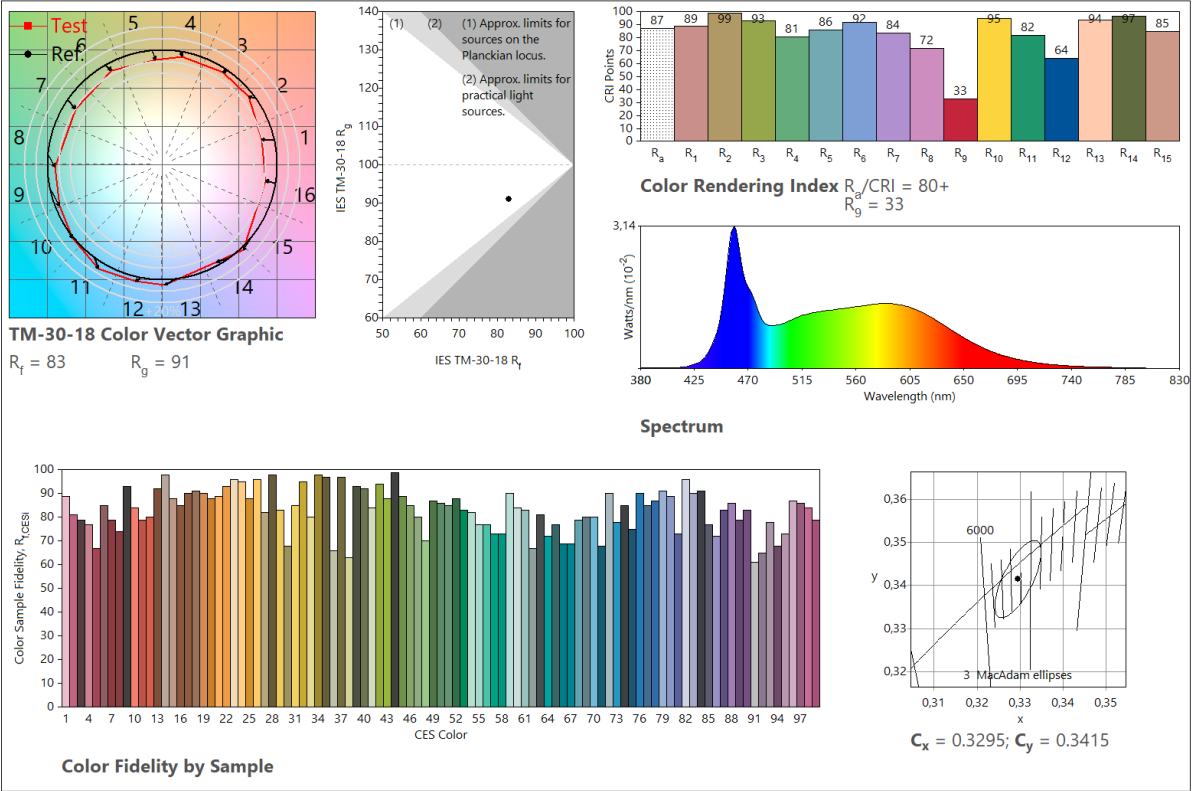
LFPxx00S-G5-840-yy



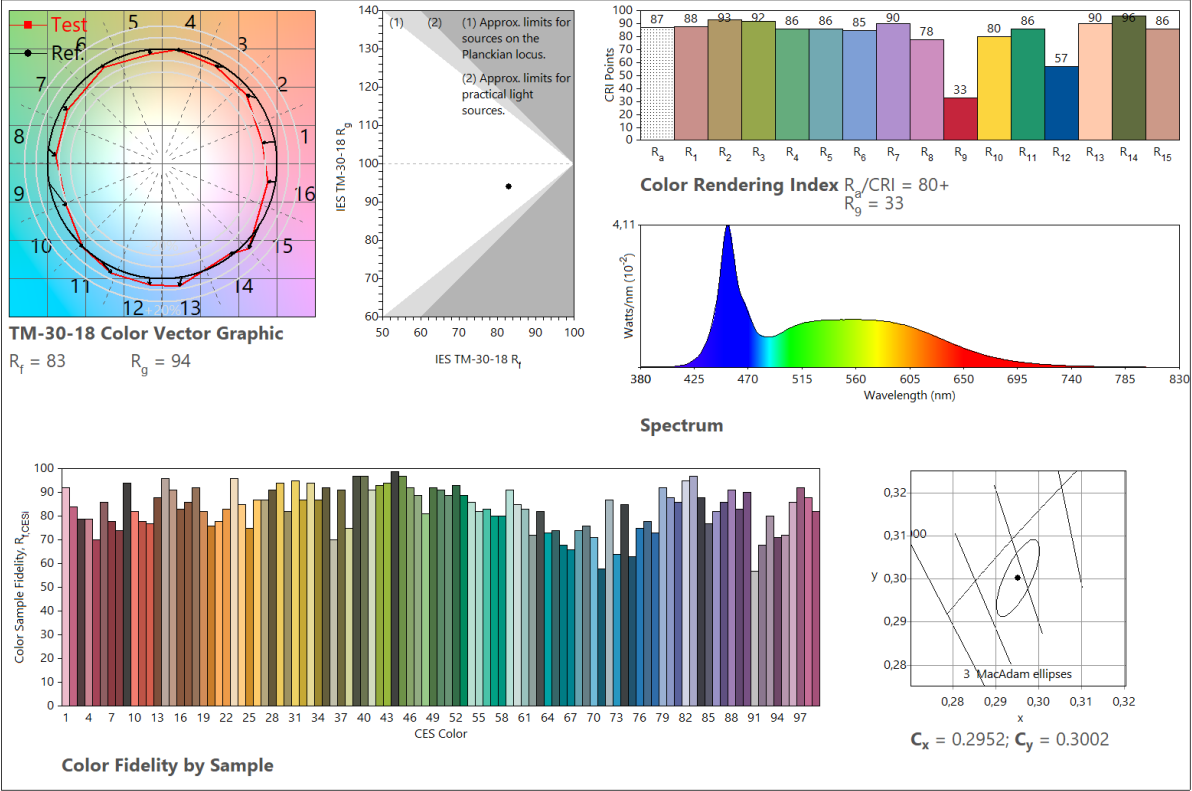
LFPxx00S-G5-847-yy



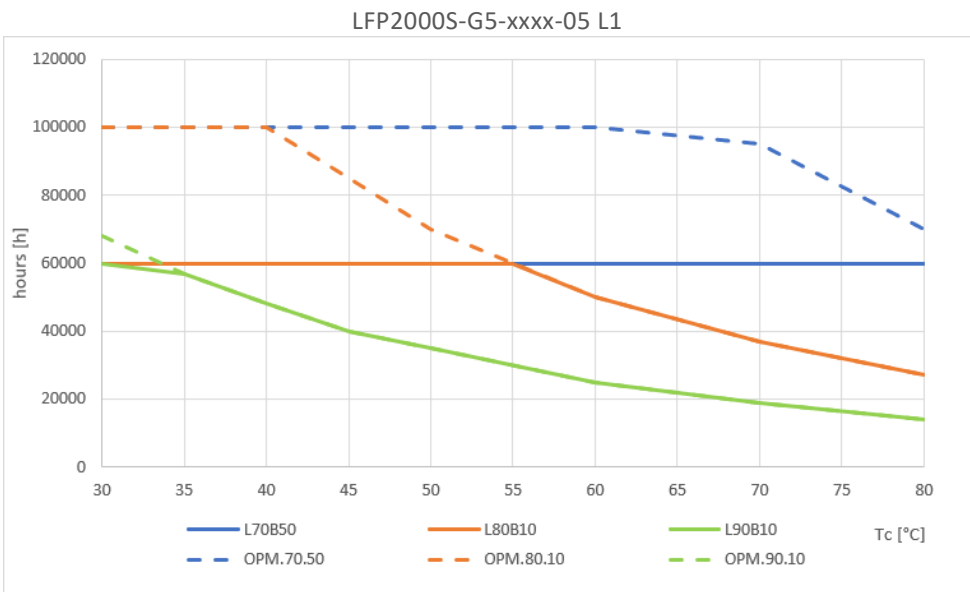
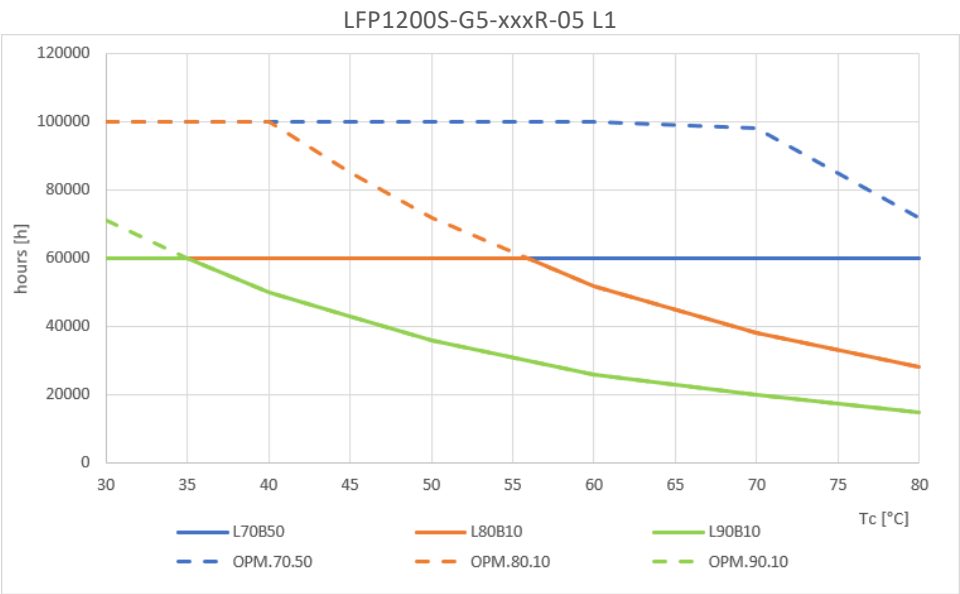
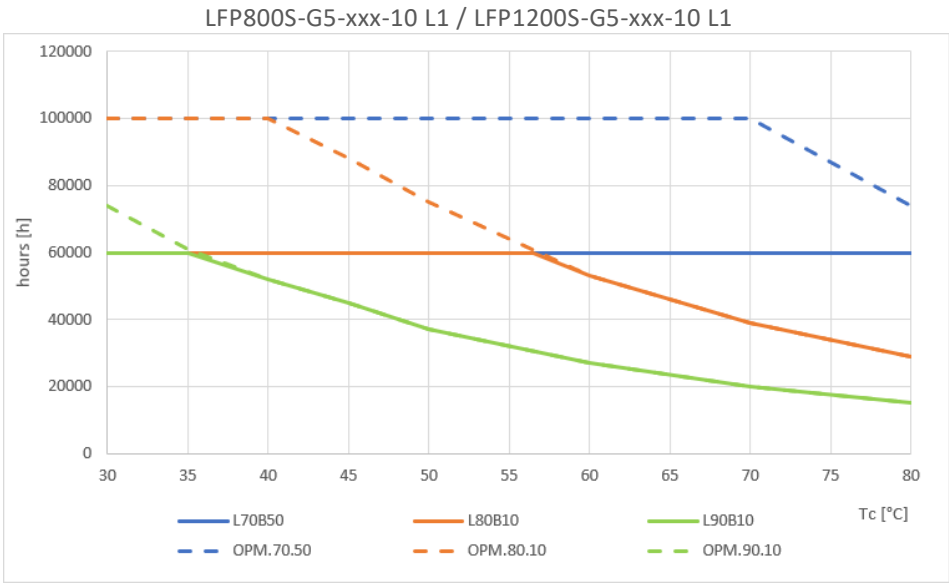
LFPxx00S-G5-857-yy



LFPxx00S-G5-880-yy



Lifetime chart



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

Packaging content

Product type	EAN10 Package content
LFP800S-G5-xxx-10 L1	1 x Led strip; 1 x connector factory assembled
LFP1200S-G5-xxx-10 L1	1 x Led strip; 1 x connector factory assembled
LFP1200S-G5-xxxR-05 L1	1 x Led strip; 1 x connector factory assembled
LFP2000S-G5-xxx-05 L1	1 x Led strip; 1 x connector factory assembled

Installation accessories

Product Type	Product description	Product code (EAN10)	EAN10 Package content
 End cap IP67	ENDCAP-IP67 KIT 10PCS	4062172176552	10x endcap, 1x glue
 Connector IP67 500mm cable	CONN-FLEX-IP67-2P KIT 5PCS	4062172176590	5x connectors with wire
 Jumper IP67	JUMPER-FLEX-IP67-2P KIT 5PCS	4062172176576	5x jumpers

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

Profile System thermal 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 Tc of LED strip is the maximum allowed.

Data valid for following products: LFP800S-G5 ALL versions LFP1200S-G5 ALL versions LFP2000S-G5 ALL versions except the ones in the next table				SURFACE MOUNTING 	RECESSED MOUNTING 
Track Type	Product description	Product code (EAN)			
 Slim Profile	LTS-SLIMTRACK-2000	4062172207300		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 Tc of LED strip is the maximum allowed.

Data valid for following products: LFP2000S-G5 versions: 825-927-930-937R-930R → "A" LFP2000S-G5 versions: 827-830-835-940-947-957-980-940R → "B"				SURFACE MOUNTING 		RECESSED MOUNTING 	
Track Type	Product description	Product code (EAN)		"A"	"B"	"A"	"B"
 Slim Profile	LTS-SLIMTRACK-2000	4062172207300		42 °C	45 °C	35 °C	40 °C
 Slim Profile	FX-QMS-G1-TU15H6-300	4052899448865		45 °C	47 °C	38 °C	43 °C
 Slim Profile	FX-QMS-G1-TU15H6W3-300	4052899448889		45 °C	47 °C	38 °C	43 °C
 Slim Profile	FX-QMS-G1-TU16H12-300	4052899448964		42 °C	50 °C	40 °C	45 °C
 Slim Profile	FX-QMS-G1-TU16H12W3-300	4052899448988		42 °C	50 °C	40 °C	45 °C
 Slim Profile	FX-QMS-G1-TR19H16-300	4052899449008		42 °C	50 °C	40 °C	45 °C
 Slim Profile	FX-QMS-G1-TU16H12LS-300	4052899449046		42 °C	50 °C	40 °C	45 °C
 Slim Profile	FX-QMS-G1-T45D19H19-300	4052899448667		47 °C	50 °C	43 °C	47 °C
 Wide Profile	FX-QMW-G1-TK30D46H27-300	4052899448827		50 °C	50 °C	45 °C	50 °C
 Wide Profile	FX-QMW-G1-TU26H8-300	4052899448643		42 °C	50 °C	40 °C	46 °C
 Wide Profile	FX-QMW-G1-TU26H25W10-300	4052899448773		45 °C	50 °C	38 °C	48 °C
 Wide Profile	FX-QMW-G1-TU26H25W2-300	4052899448841		45 °C	50 °C	38 °C	48 °C
 Wide Profile	FX-QMW-G1-TU26H25-300	4052899448803		45 °C	50 °C	38 °C	48 °C

For further information please write to support-DS@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.

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The OSRAM logo is displayed in a bold, orange, sans-serif font.