

Light is OSRAM

OSRAM

LINEARlight FLEX® DIFFUSE G2 Side

Homogeneous and uniform dot free light lines

LFD400S / 600S / 1000S



Features & Benefits

- Diffuse light lines without visible spots
- Luminous flux up to 1050 lm/m
- IP67 protection with high performance silicone
- CRI 80+ and 90+ versions
- Color uniformity ≤ 3 SDCM
- Lifetime up to 60.000 h L90B10 at T_p (LFD400)
- Lifetime up to 60.000 h L70B50 at T_p
- Large selection of light color temperatures
- Extraordinary design and high-quality materials
- Flexibility and cuttability to support design freedom
- Easy mounting thanks to extra-strong self-adhesive backside
- Dimmable by OPTOTRONIC® LED drivers
- Suitable for outdoor use: UV and salt mist resistant
- Made in Italy

Application areas

Architectural integration, Façade lighting, Cove lighting, Outdoor applications

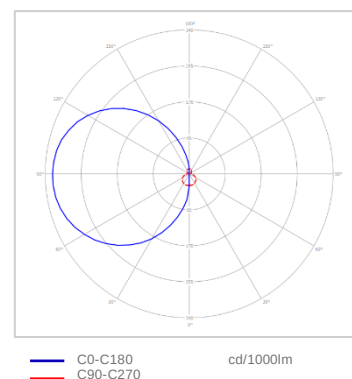
Standards

CE, UKCA, ENEC

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

Main data

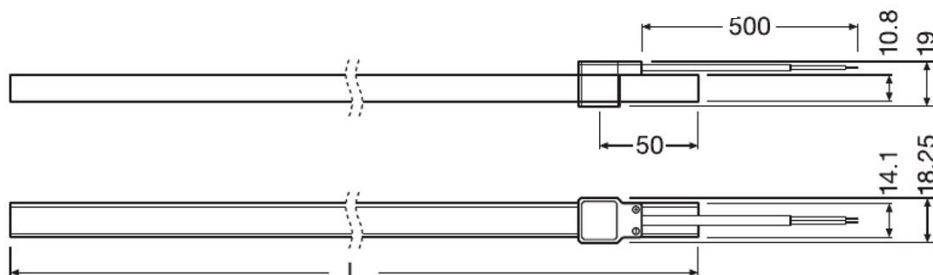
Operating voltage	24.0 V (23.0 ... 25.0 V)
Accidental reverse voltage protection up to	25.0 V
Product length up to	10000 mm
Lifetime L80B10 @ T_p	60.000 h
Temperature range in operation @ T_c point	-30...+75 °C
Ambient Temperature with profile **	-30...+50 °C
Storage Temperature	-30...+75 °C



Beam Angle 120°

Mechanical data

LFD400 / LFD600 / LFD1000 SIDE

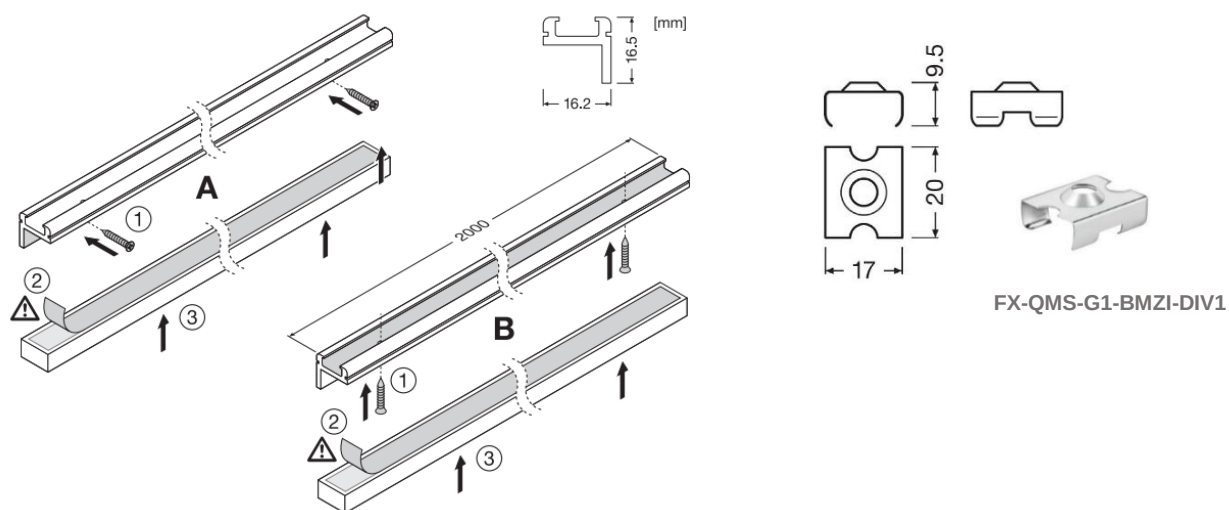


Min. bending radius = 100 mm
All dimensions in: mm

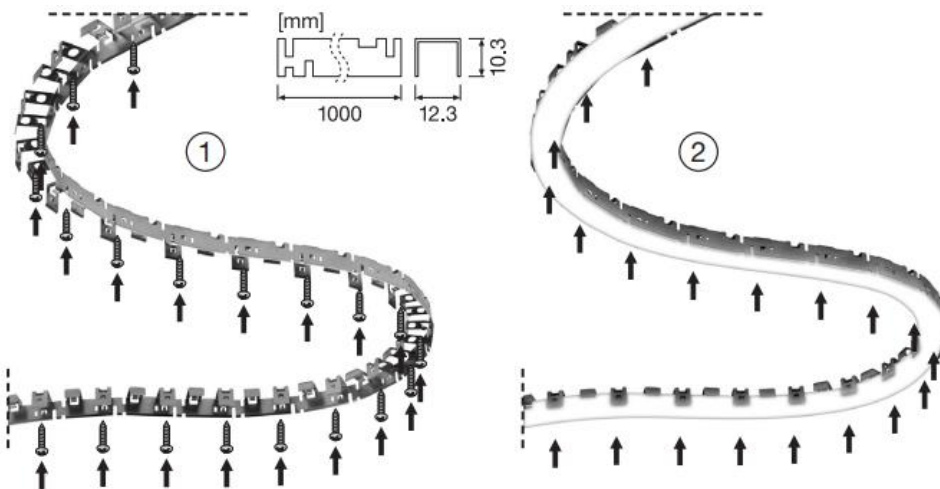
Max. operable length = product length

LFD400 / LFD600 / LFD1000 SIDE with optional accessories

FX-LFDM-G1-TS-16H16-200

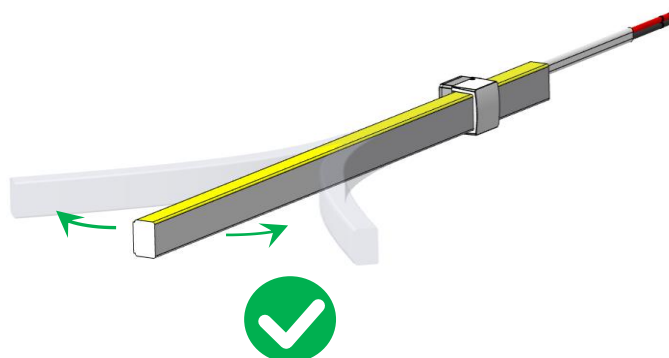


FX-LFDM-BEND-1000

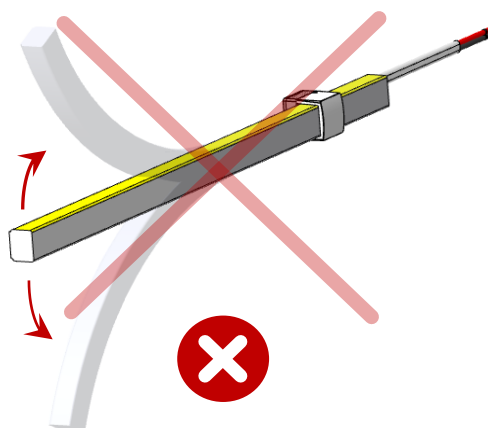


LFD400 / LFD600 / LFD1000 SIDE bending direction (yellow: light emitting surface)

Allowed:



NOT allowed:



Technical data

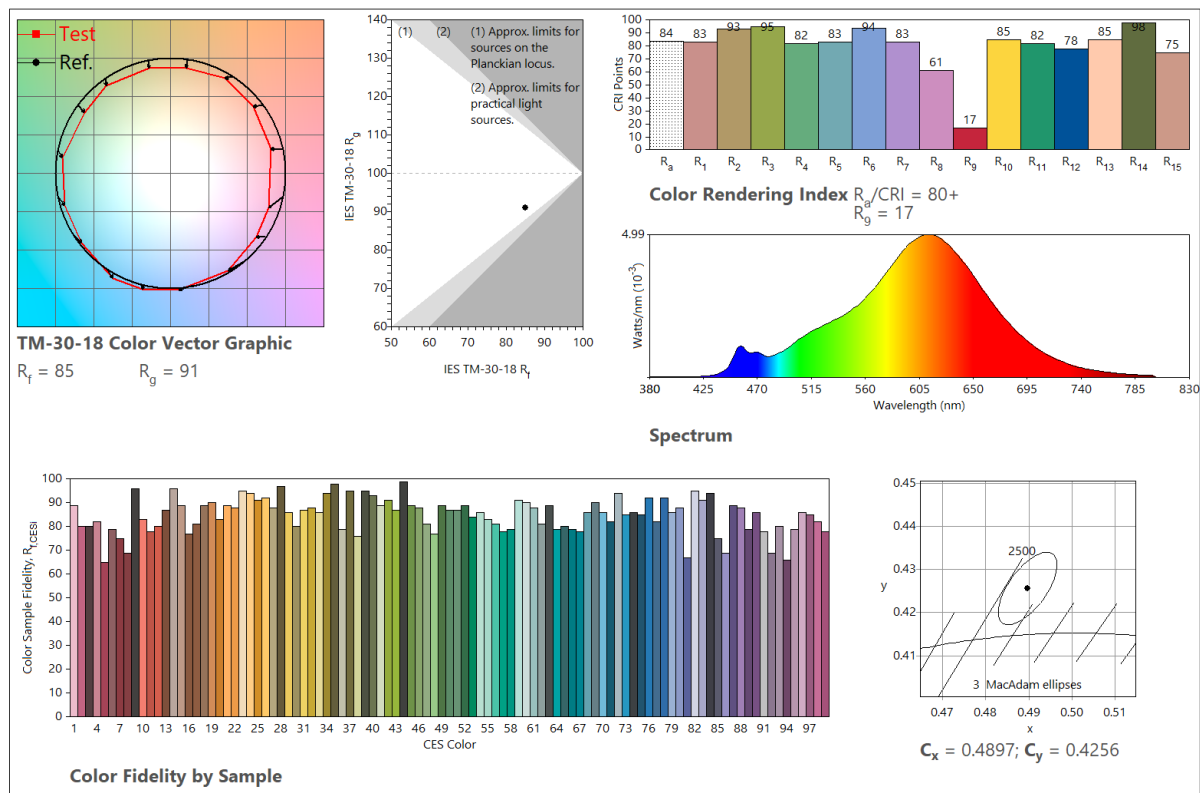
LFD400S White	Nominal CCT See color output data	CRI	Luminous Flux per meter lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LFD400S-G2-824-10	● 2400 K	>80	390	8.9	44	35	10
LFD400S-G2-827-10	● 2700 K	>80	440	8.9	49	35	10
LFD400S-G2-830-10	● 3000 K	>80	460	8.9	52	35	10
LFD400S-G2-835-10	● 3500 K	>80	460	8.9	52	35	10
LFD400S-G2-840-10	○ 4000 K	>80	460	8.9	52	35	10
LFD400S-G2-865-10	● 6500 K	>80	440	8.9	49	35	10
LFD400S-G2-924-10	● 2400 K	>90	390	8.9	44	35	10
LFD400S-G2-927-10	● 2700 K	>90	400	8.9	45	35	10
LFD400S-G2-930-10	● 3000 K	>90	430	8.9	48	35	10
LFD400S-G2-935-10	● 3500 K	>90	430	8.9	48	35	10
LFD400S-G2-940-10	○ 4000 K	>90	390	8.9	44	35	10
LFD400S-G2-965-10	● 6500 K	>90	390	8.9	44	35	10

LFD600S White	Nominal CCT See color output data	CRI	Luminous Flux per meter lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LFD600S-G2-824-06	● 2400 K	>80	590	13.5	44	50	6
LFD600S-G2-827-06	● 2700 K	>80	630	13.5	47	50	6
LFD600S-G2-830-06	● 3000 K	>80	680	13.5	50	50	6
LFD600S-G2-835-06	● 3500 K	>80	690	13.5	51	50	6
LFD600S-G2-840-06	○ 4000 K	>80	690	13.5	51	50	6
LFD600S-G2-865-06	● 6500 K	>80	630	13.5	47	50	6
LFD600S-G2-924-06	● 2400 K	>90	540	13.5	40	50	6
LFD600S-G2-927-06	● 2700 K	>90	600	13.5	44	50	6
LFD600S-G2-930-06	● 3000 K	>90	600	13.5	44	50	6
LFD600S-G2-935-06	● 3500 K	>90	620	13.5	46	50	6
LFD600S-G2-940-06	○ 4000 K	>90	620	13.5	46	50	6
LFD600S-G2-965-06	● 6500 K	>90	580	13.5	43	50	6

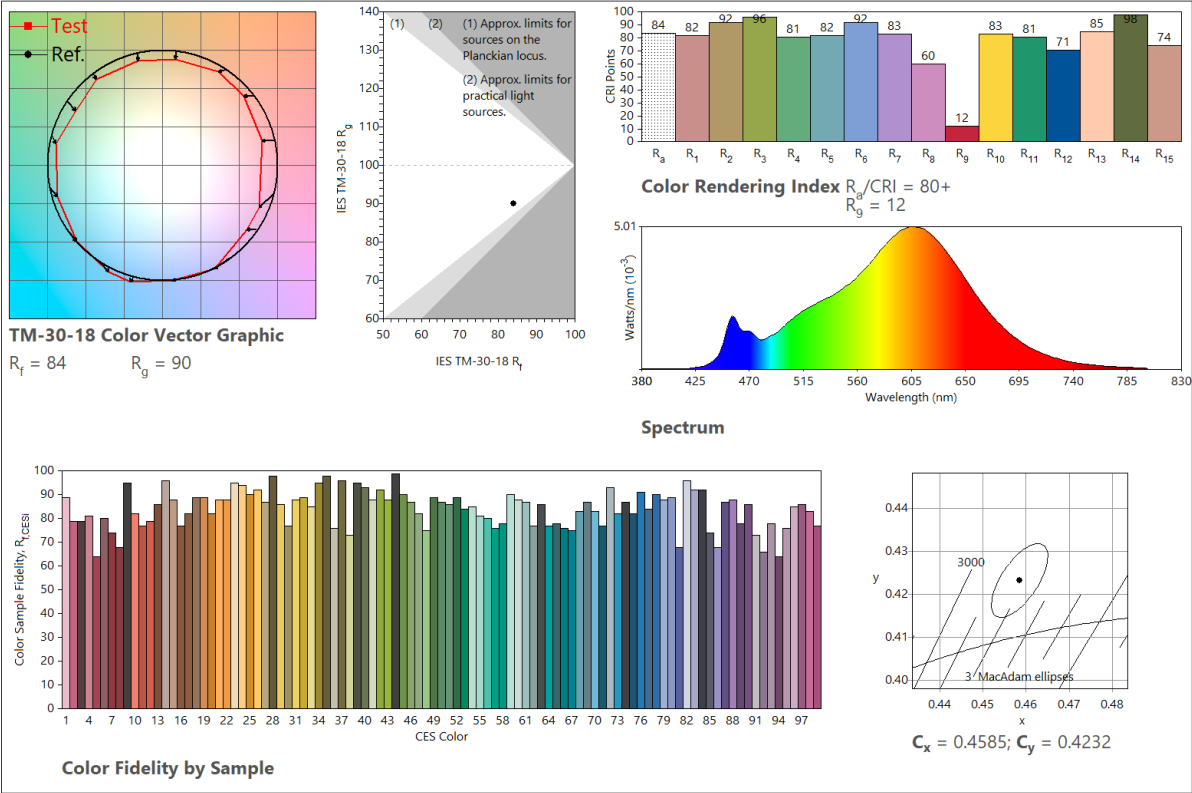
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LFD1000S-G2-824-04	2400 K	>80	830	20.9	48	55	4
LFD1000S-G2-827-04	2700 K	>80	980	20.9	48	55	4
LFD1000S-G2-830-04	3000 K	>80	1000	20.9	48	55	4
LFD1000S-G2-835-04	3500 K	>80	1000	20.9	48	55	4
LFD1000S-G2-840-04	4000 K	>80	1050	20.9	48	55	4
LFD1000S-G2-865-04	6500 K	>80	980	20.9	48	55	4
LFD1000S-G2-927-04	2700 K	>90	840	21	47	55	4
LFD1000S-G2-930-04	3000 K	>90	900	21	48	55	4
LFD1000S-G2-935-04	3500 K	>90	900	21	48	55	4
LFD1000S-G2-940-04	4000 K	>90	900	21	50	55	4
LFD1000S-G2-965-04	6500 K	>90	850	21	47	55	4

Color output data

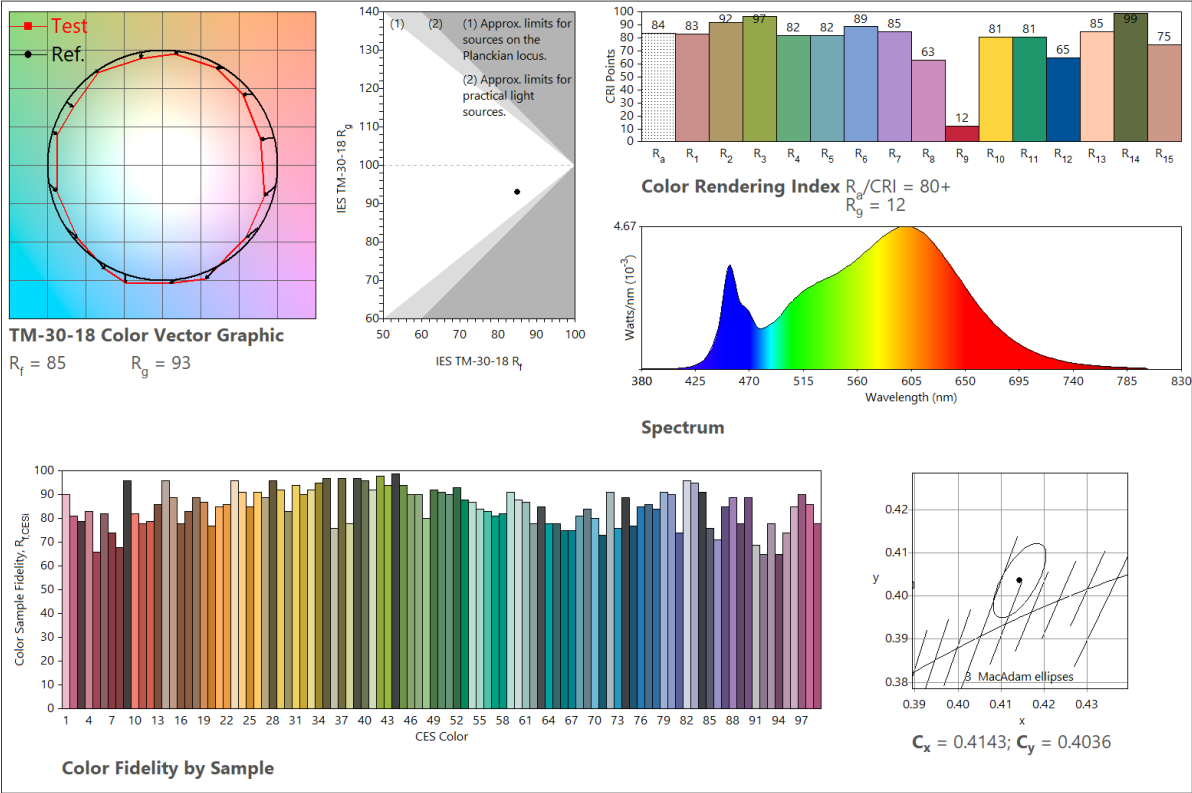
LFD400S-G2-824-10



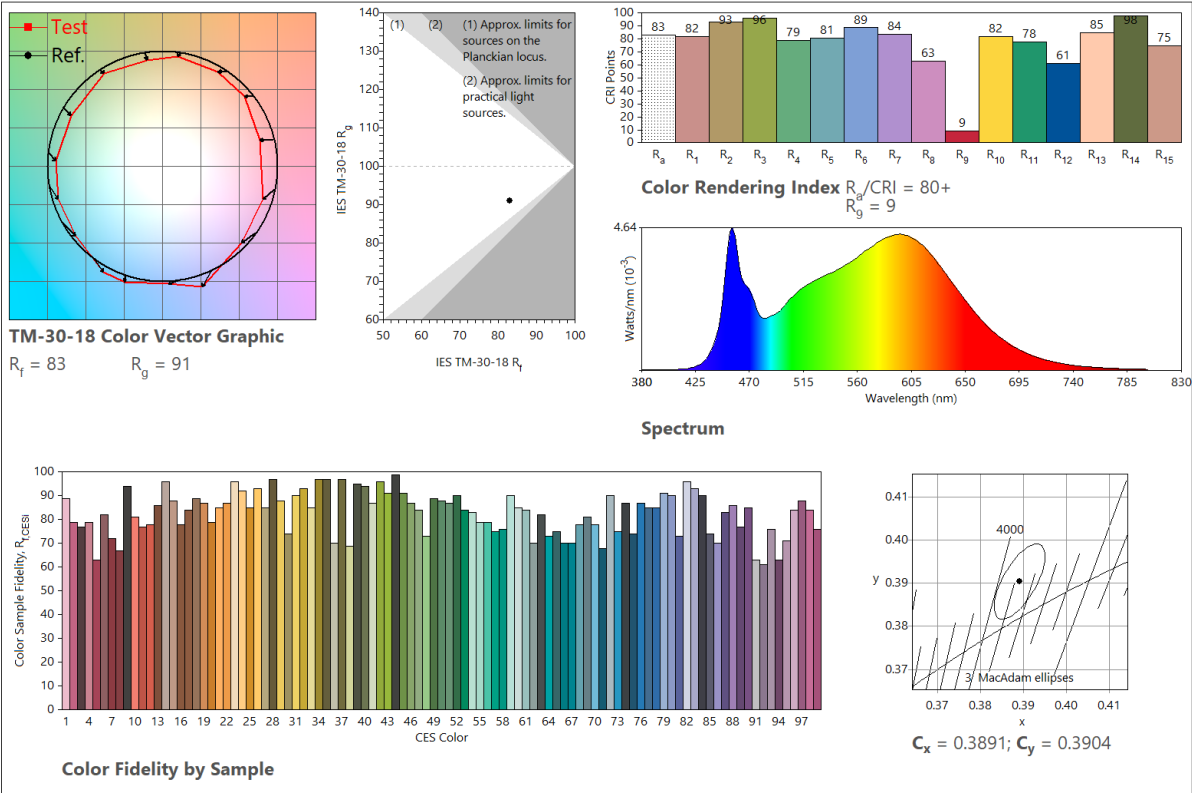
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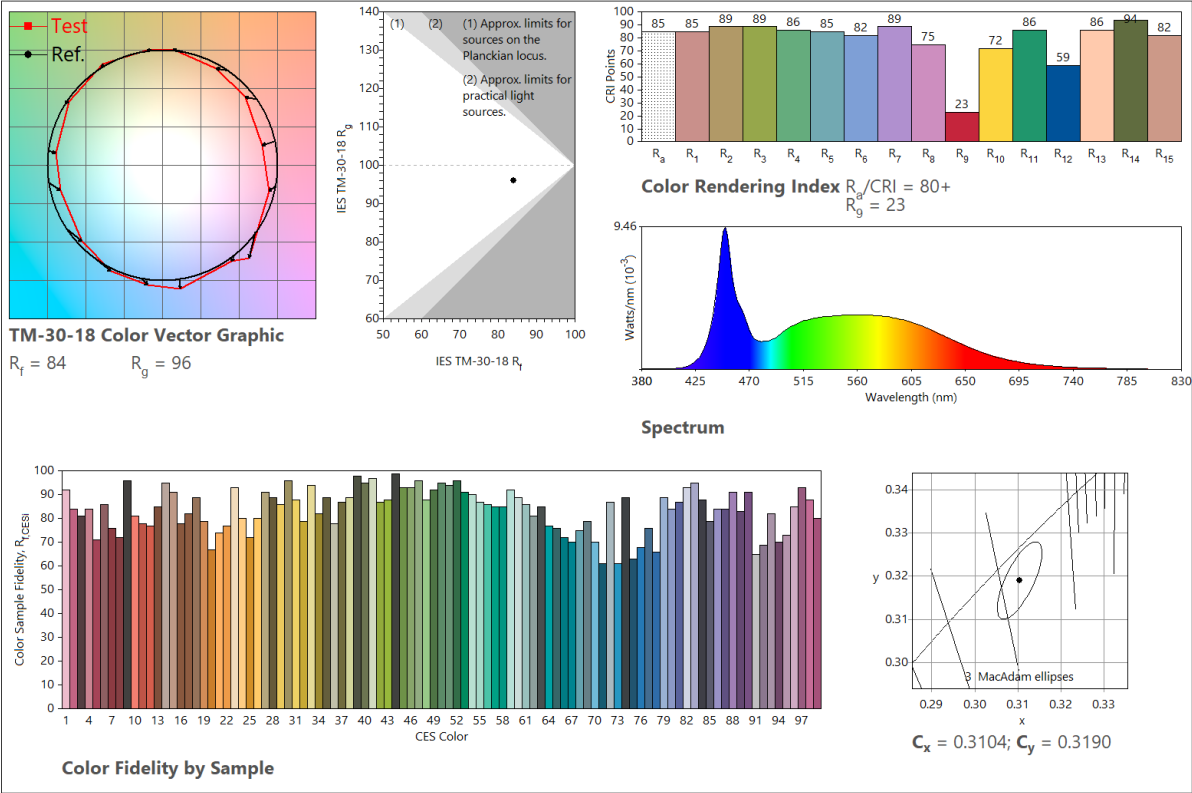
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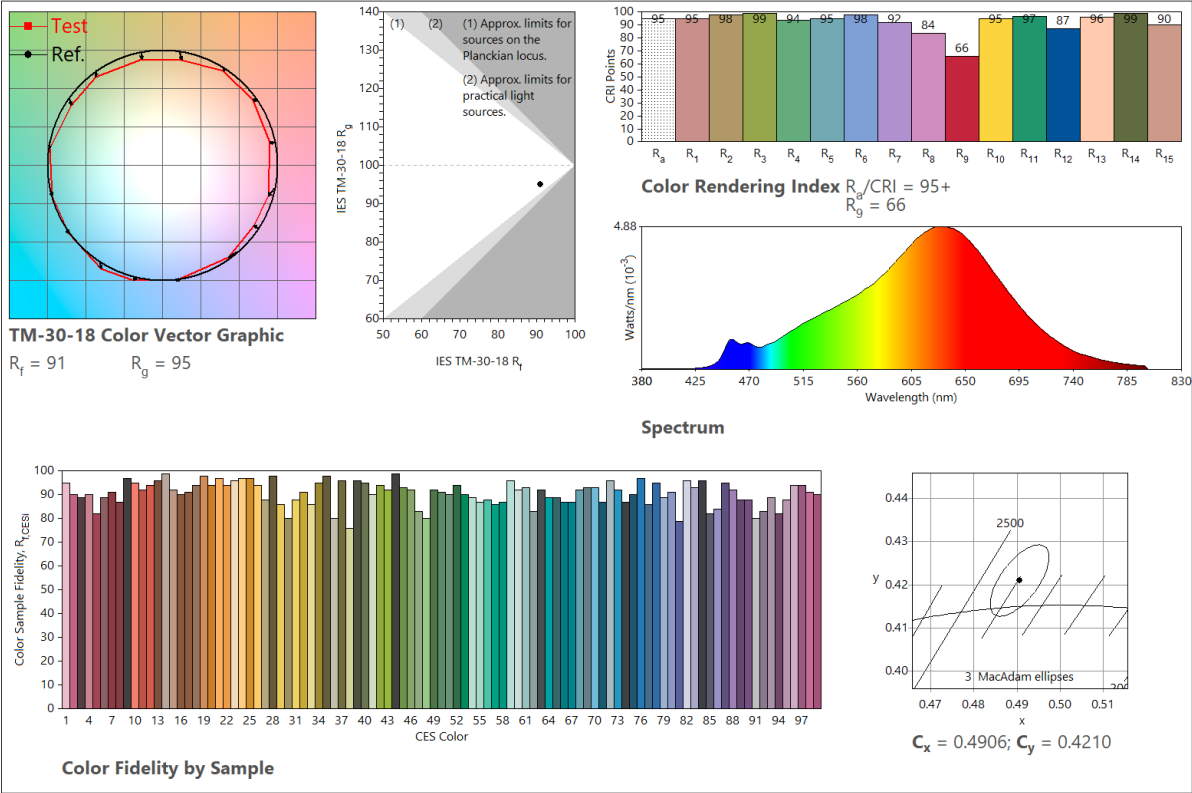
LFD400S-G2-840-10



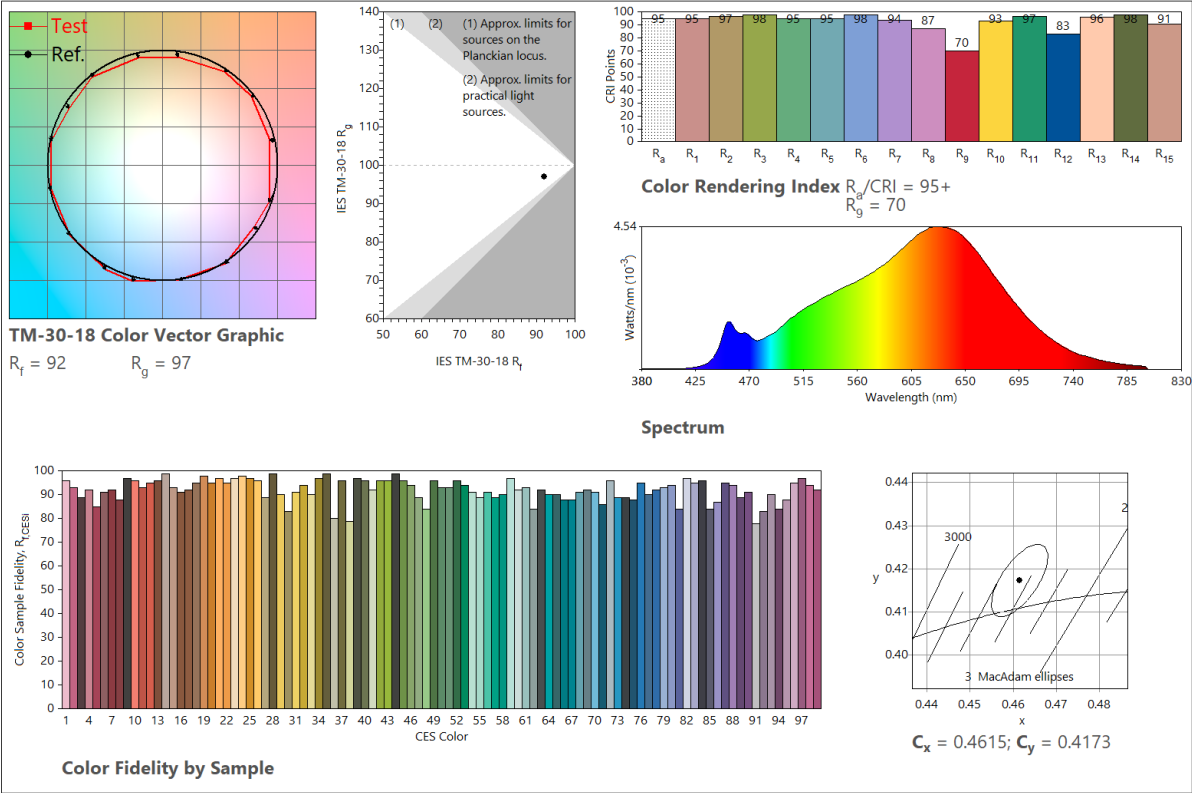
LFD400S-G2-865-10



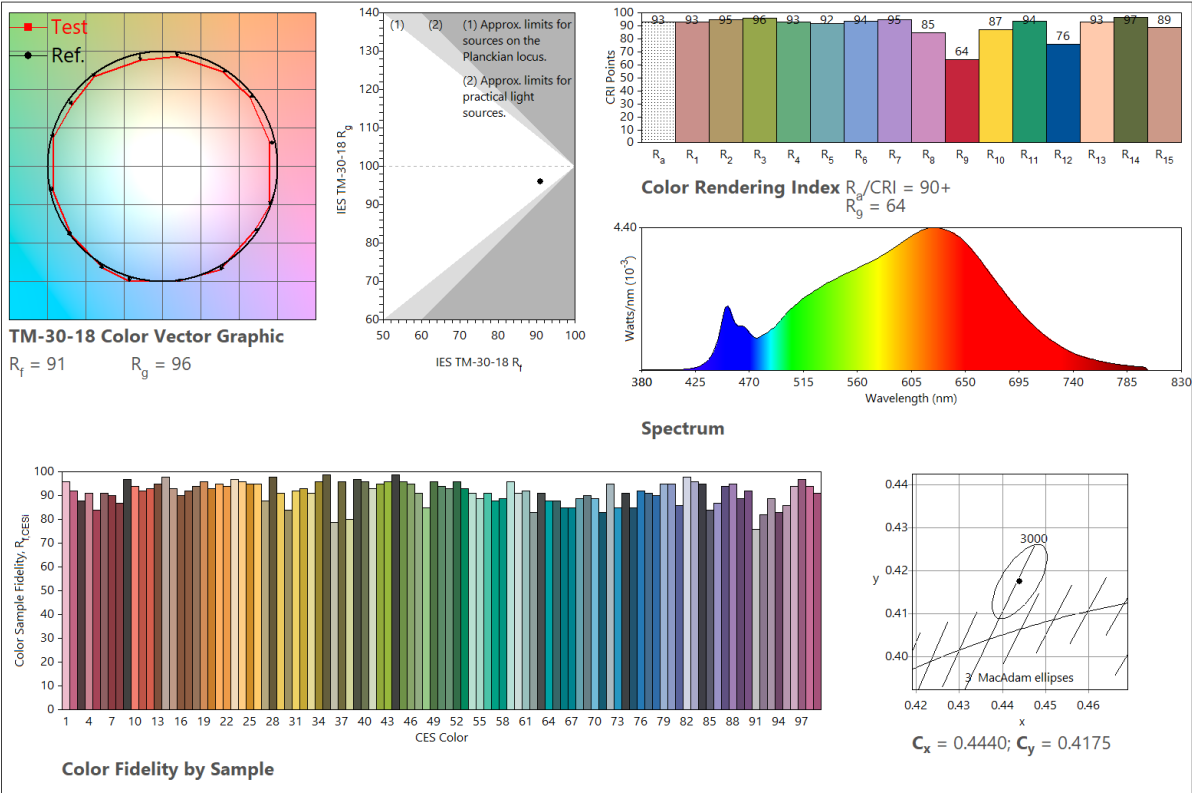
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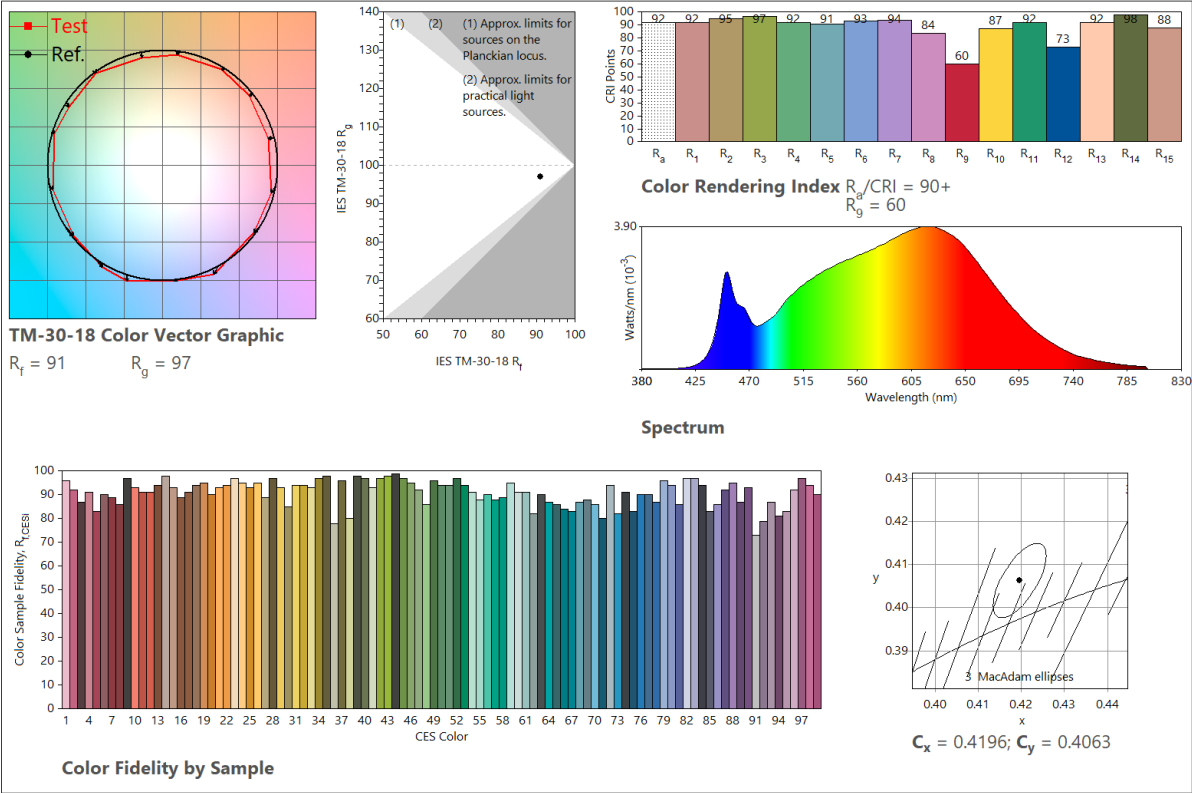
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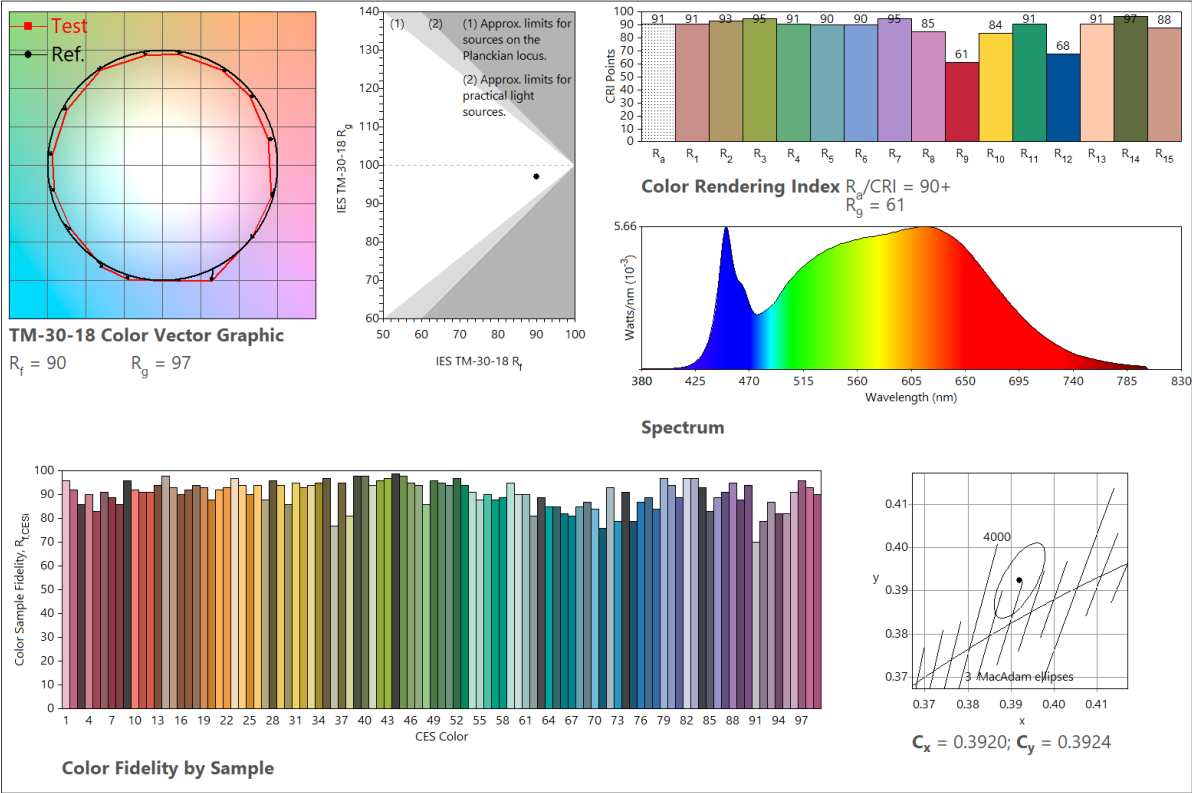
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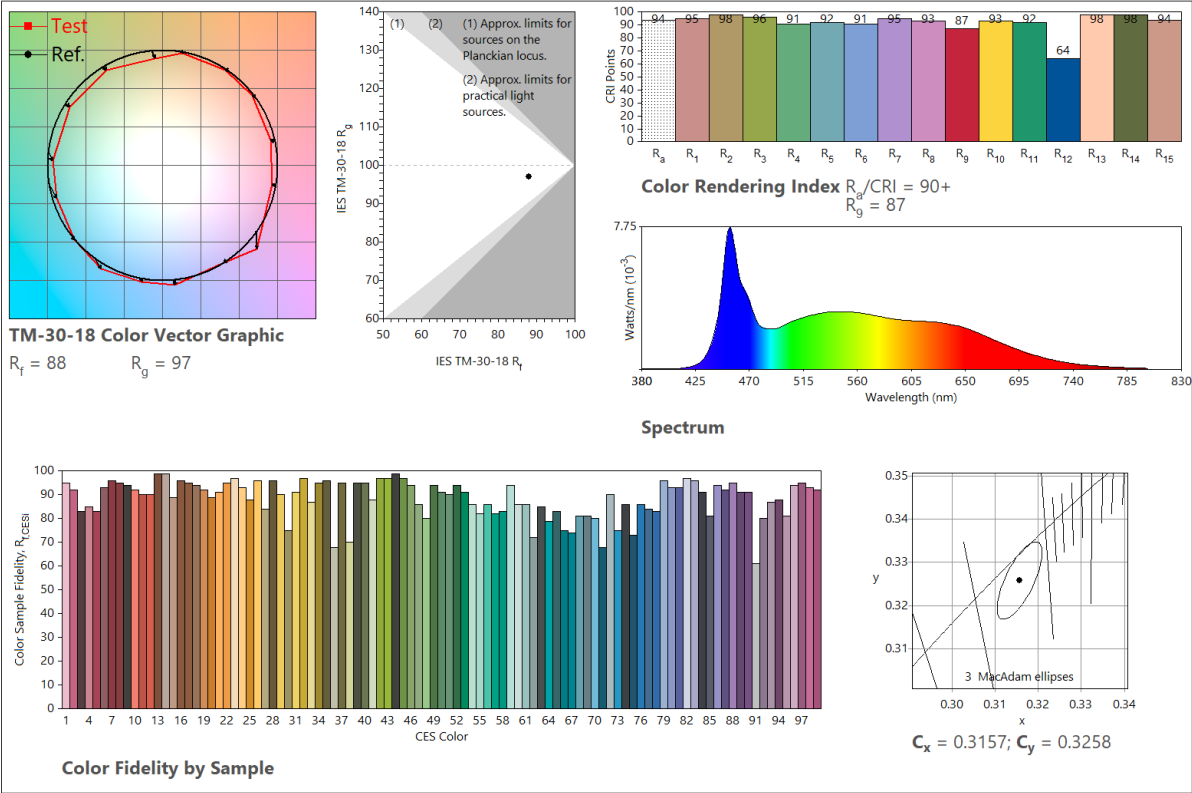
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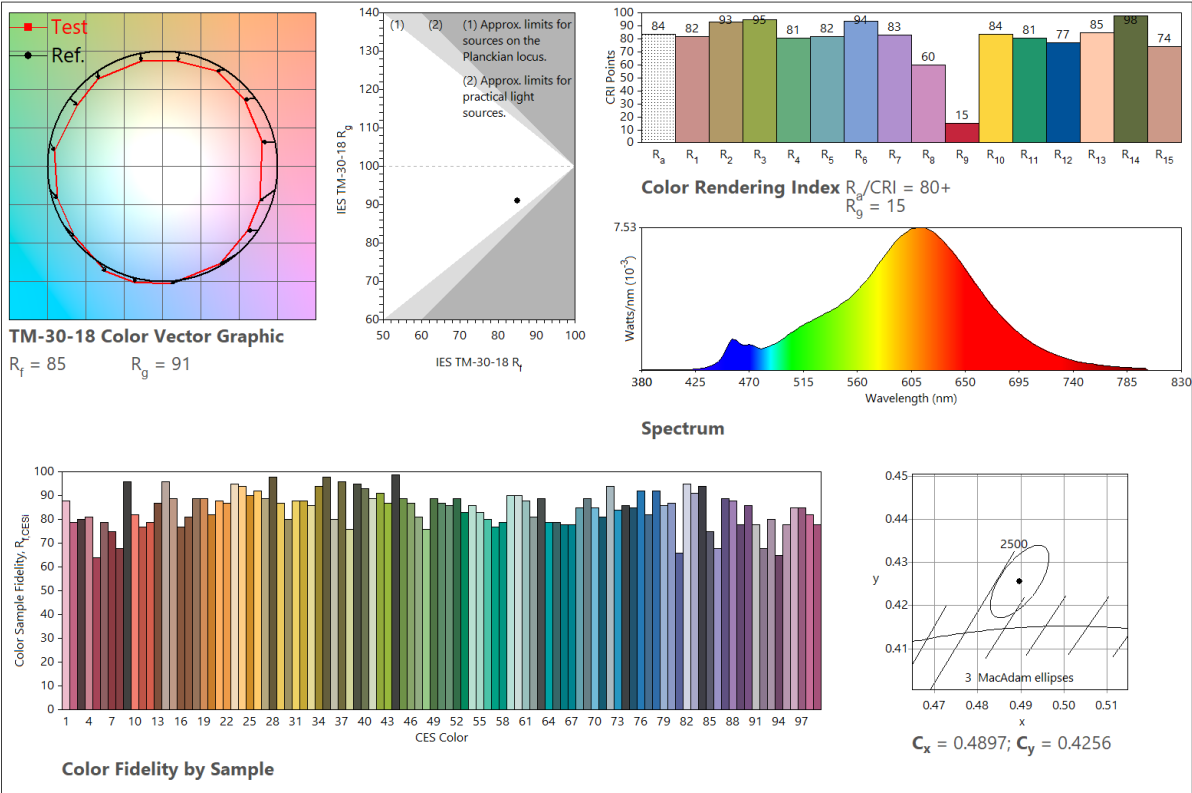
LFD400S-G2-940-10



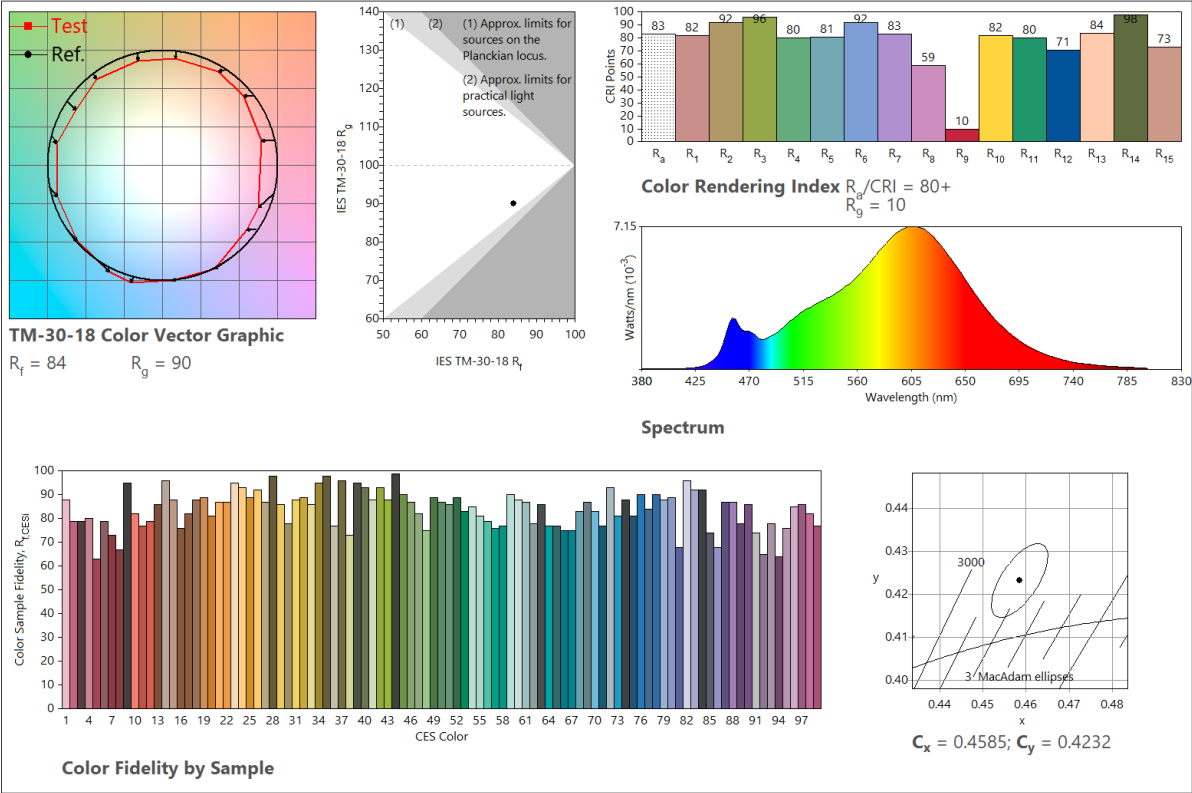
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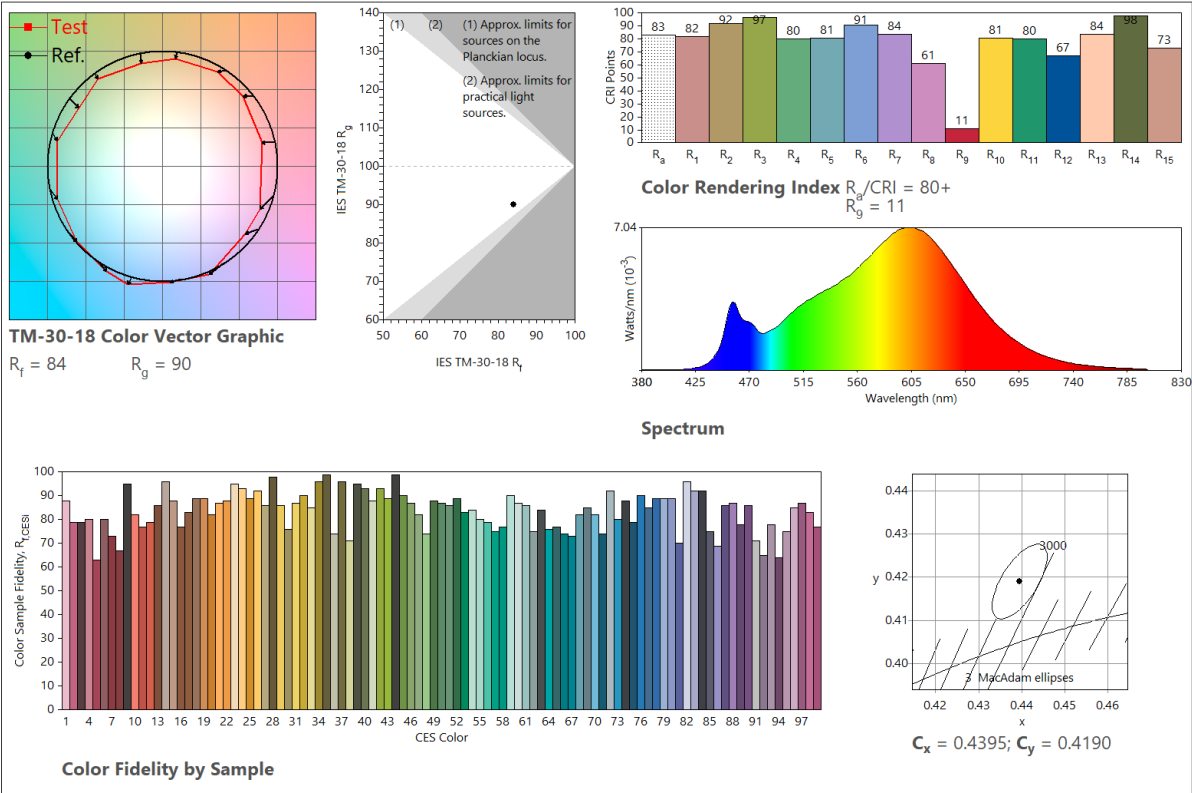
LFD600S-G2-824-06



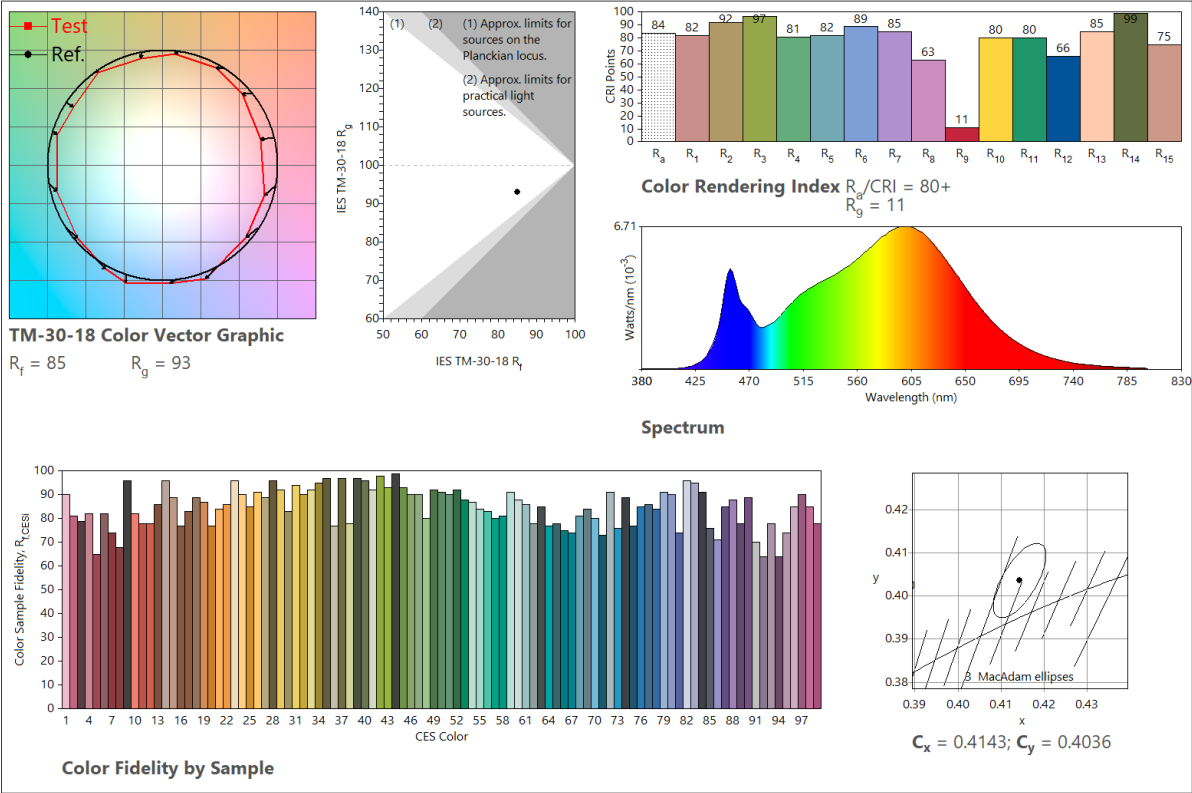
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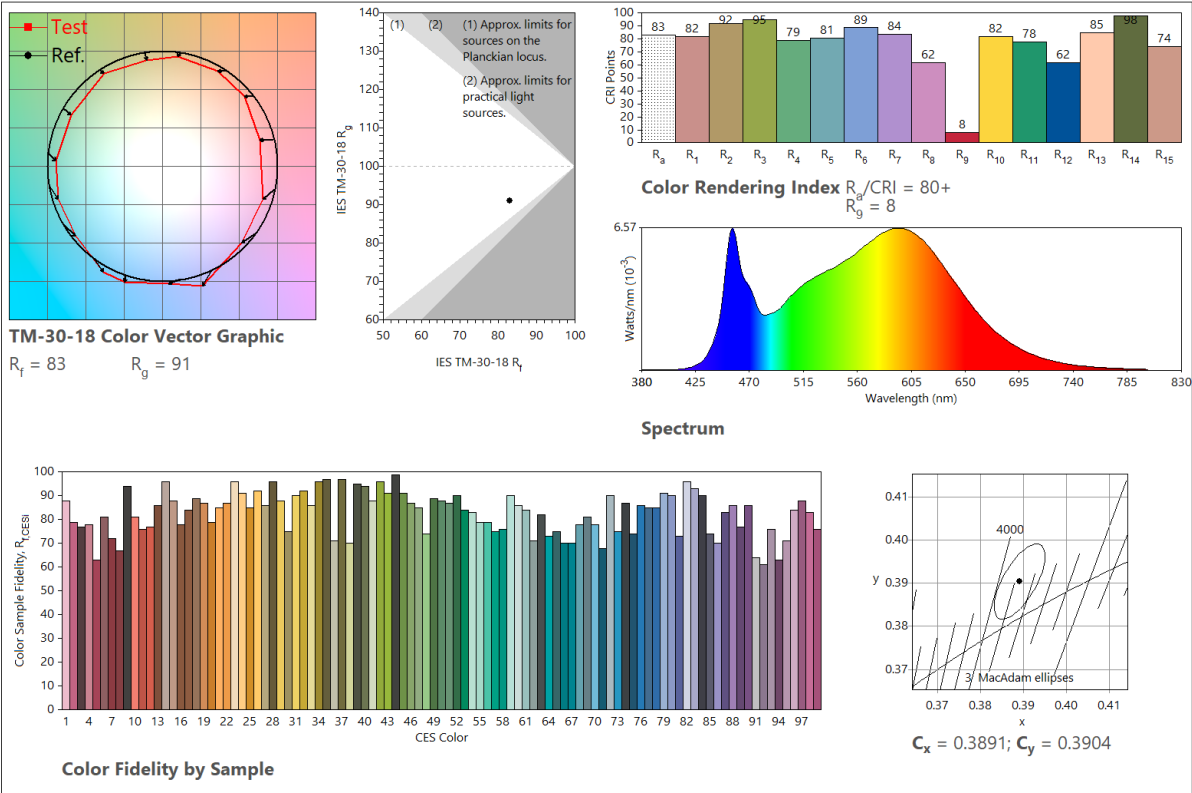
LFD600S-G2-830-06



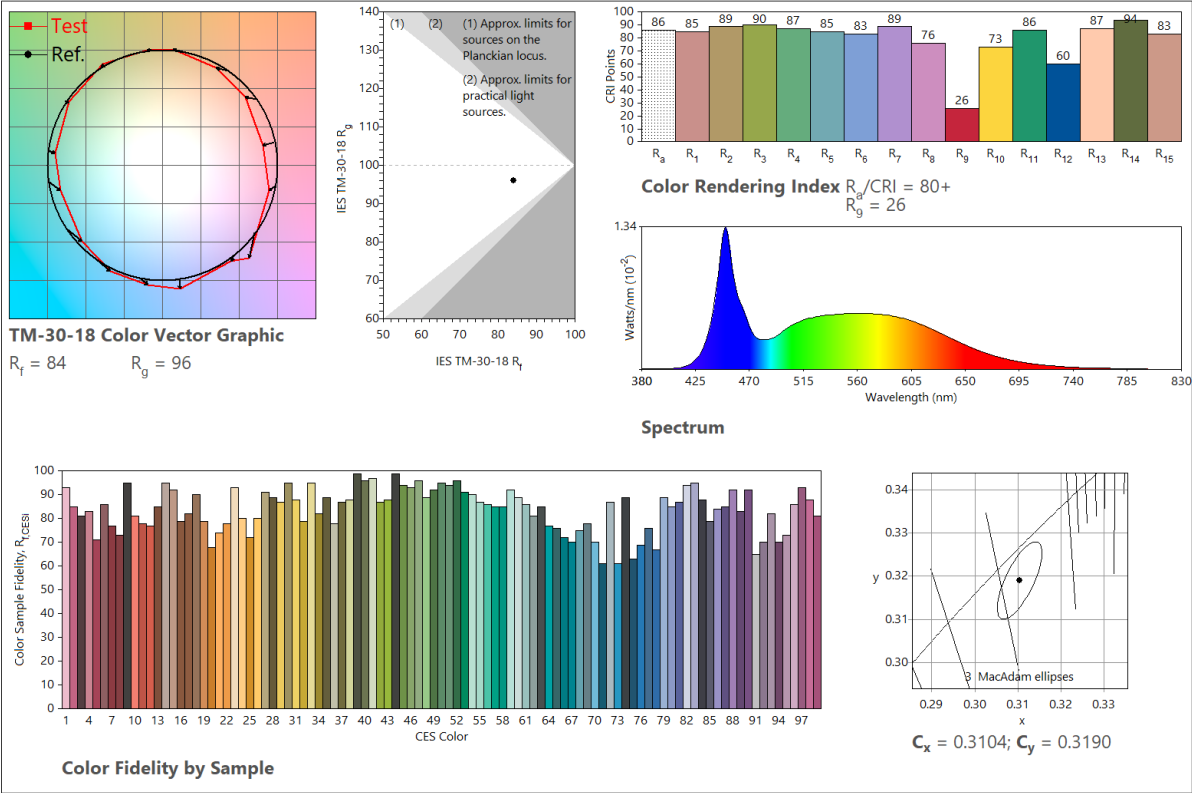
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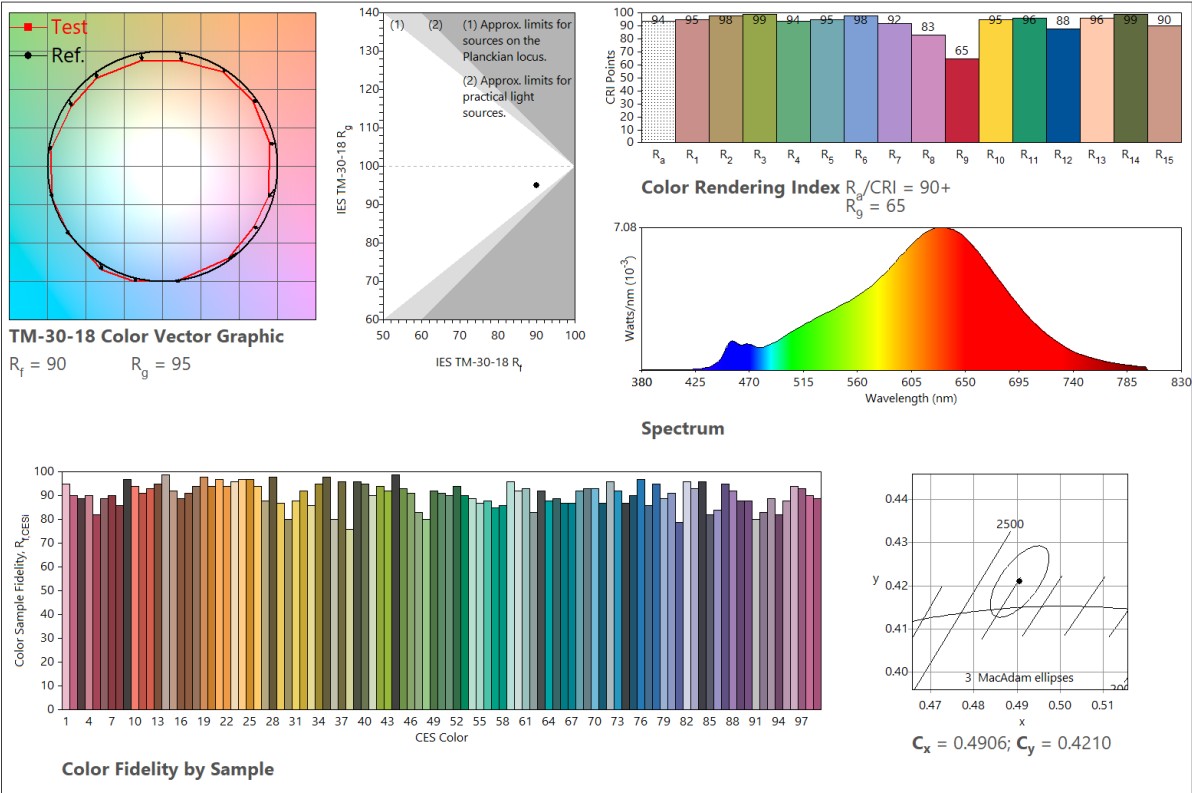
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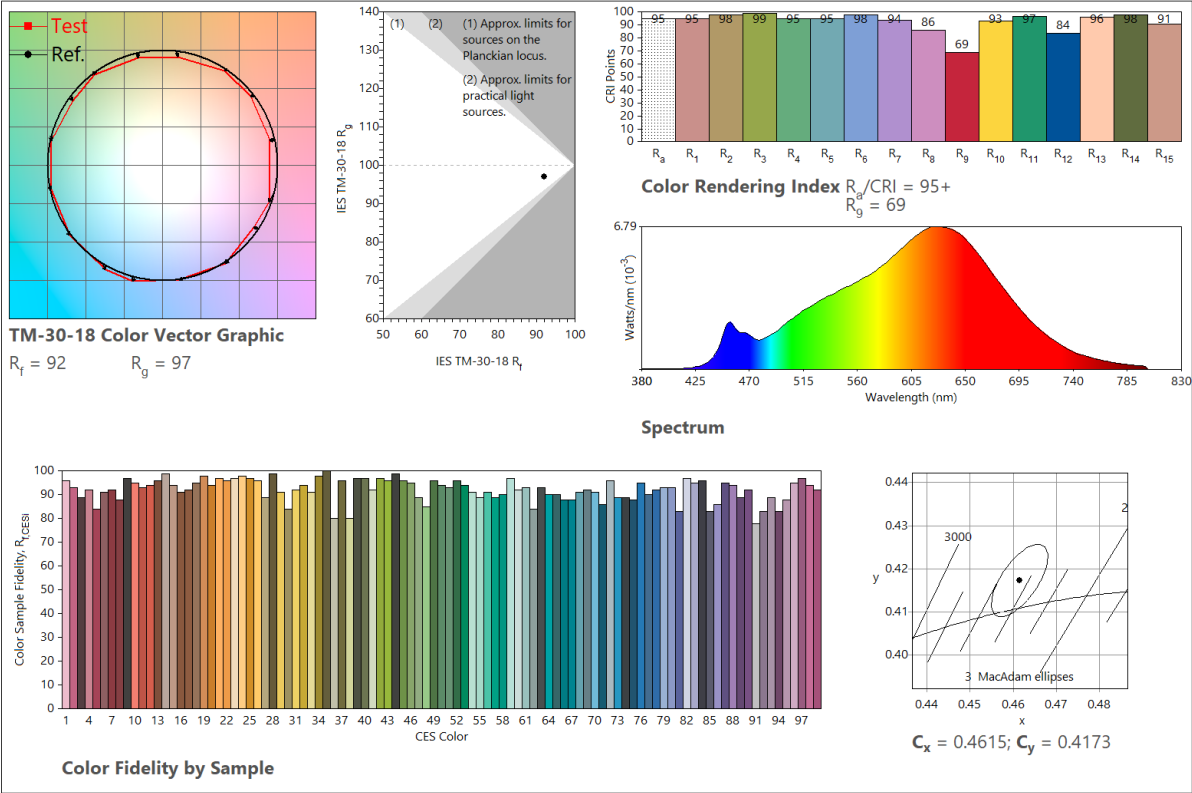
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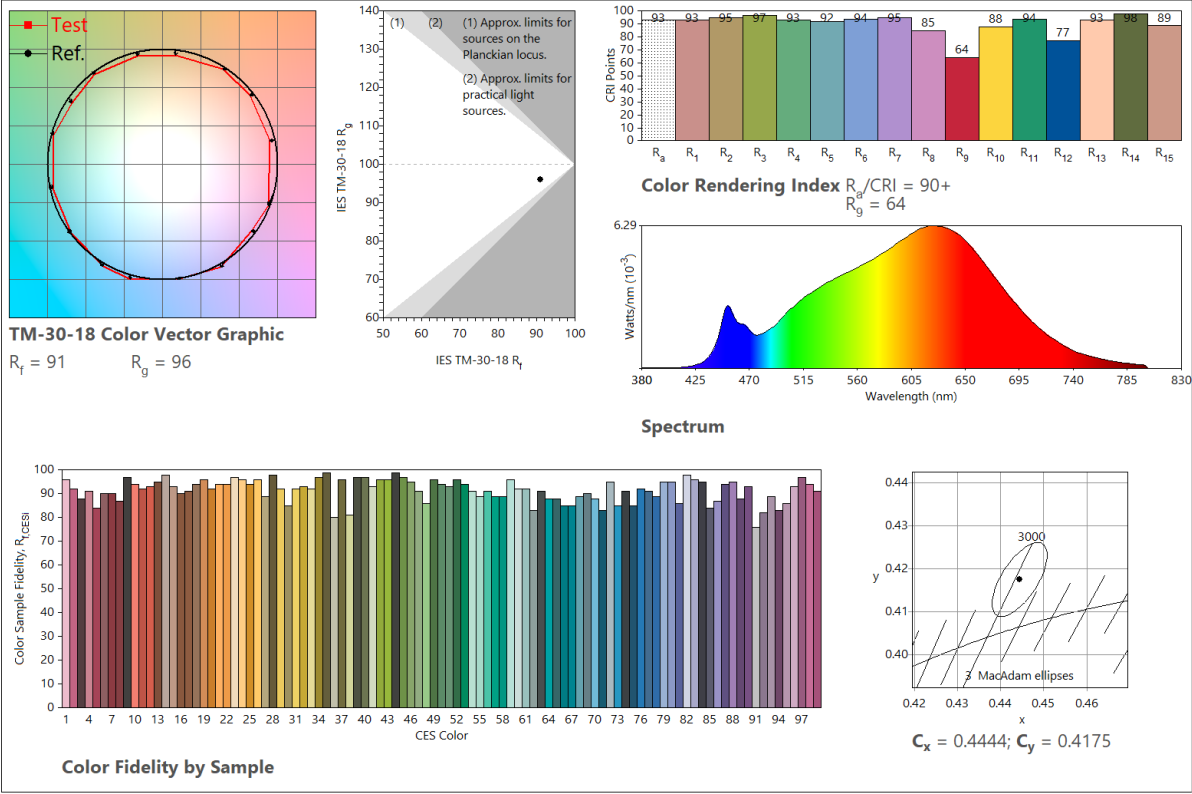
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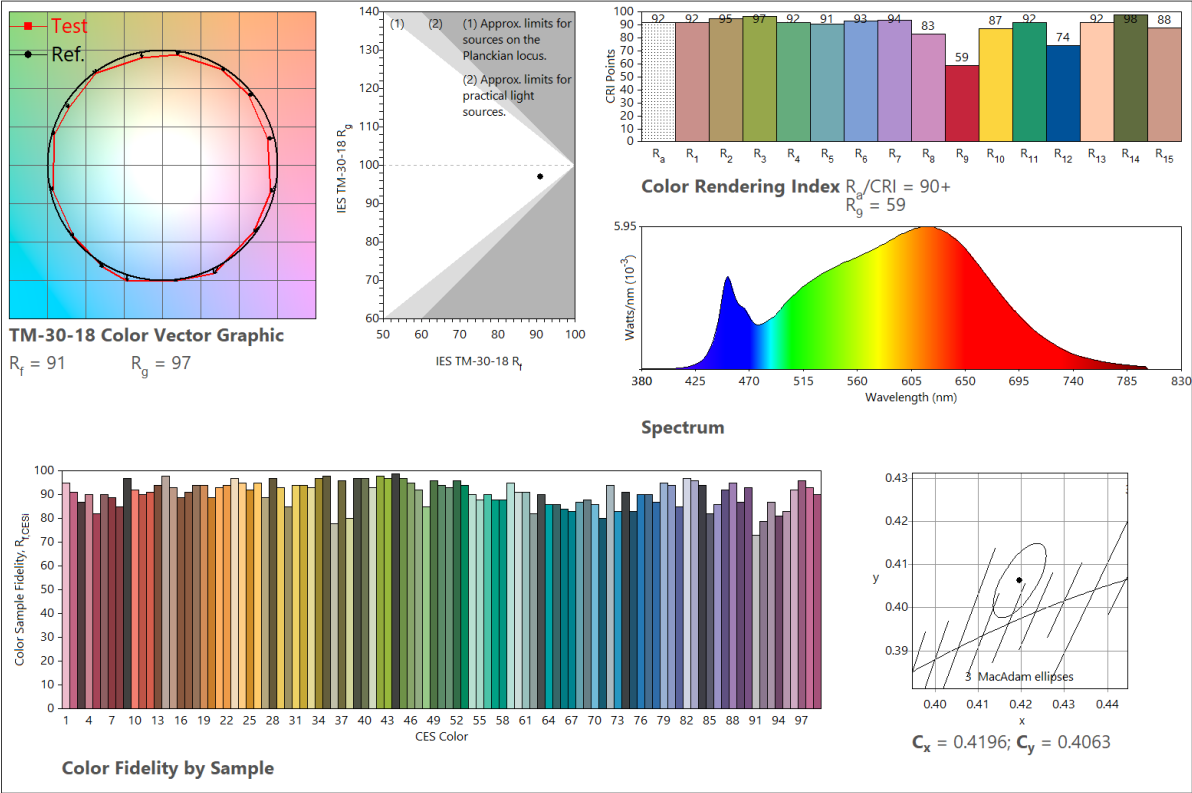
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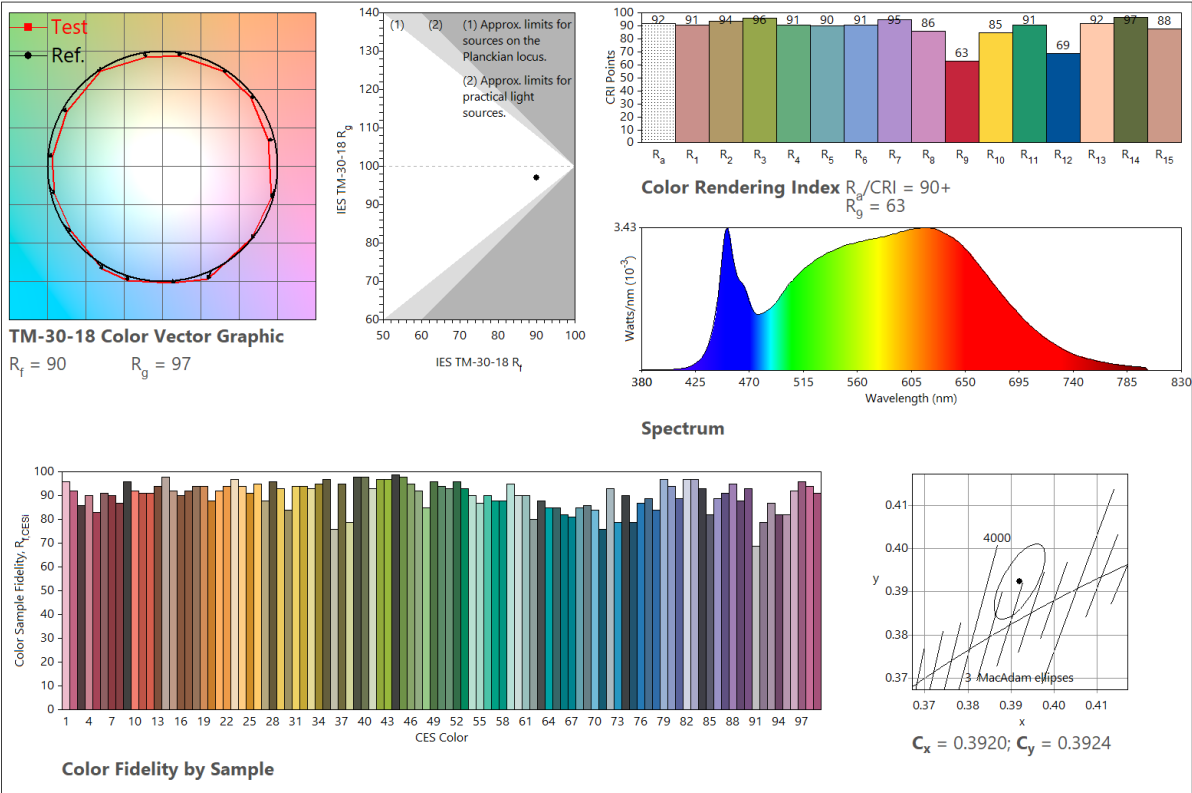
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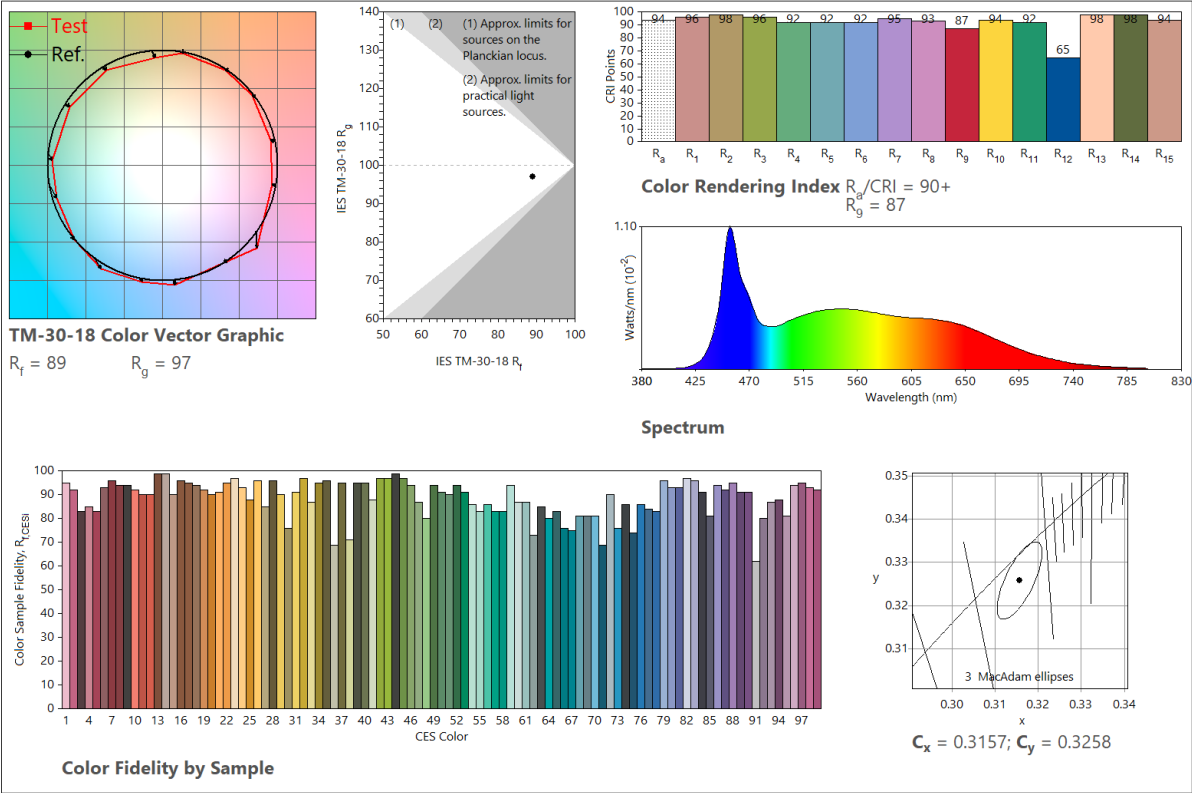
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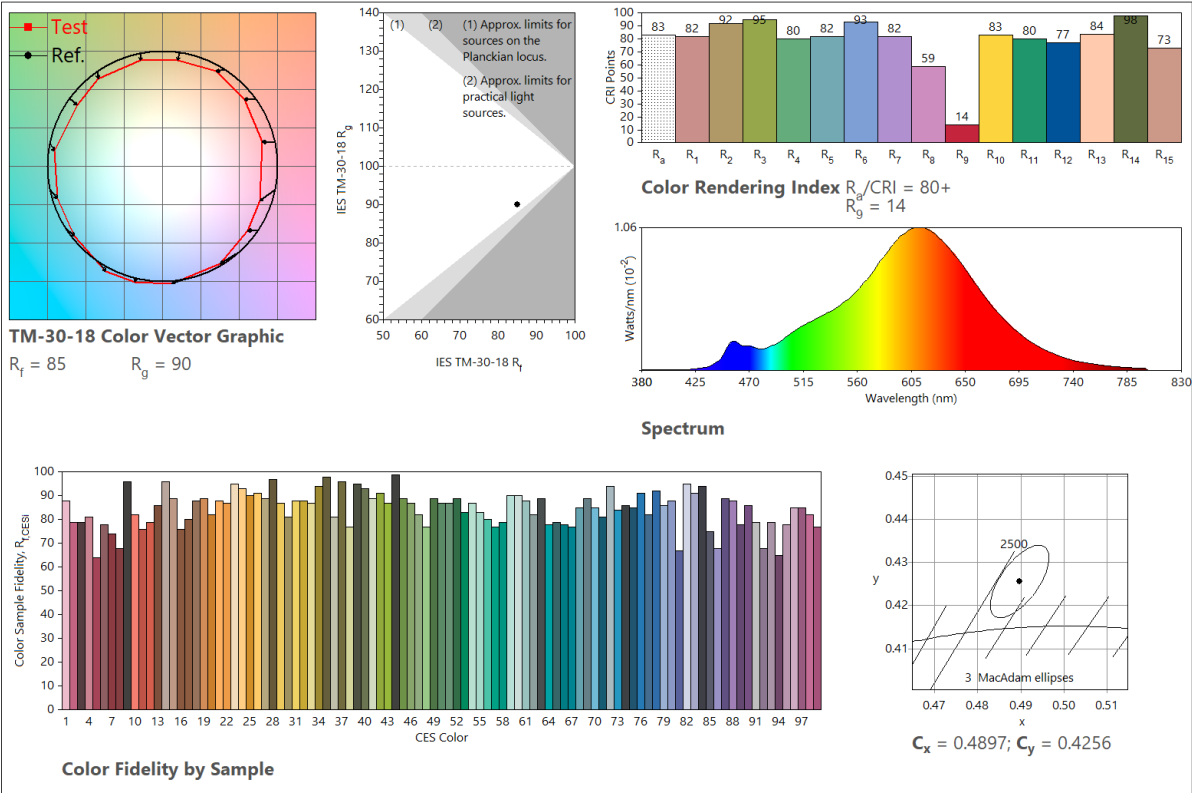
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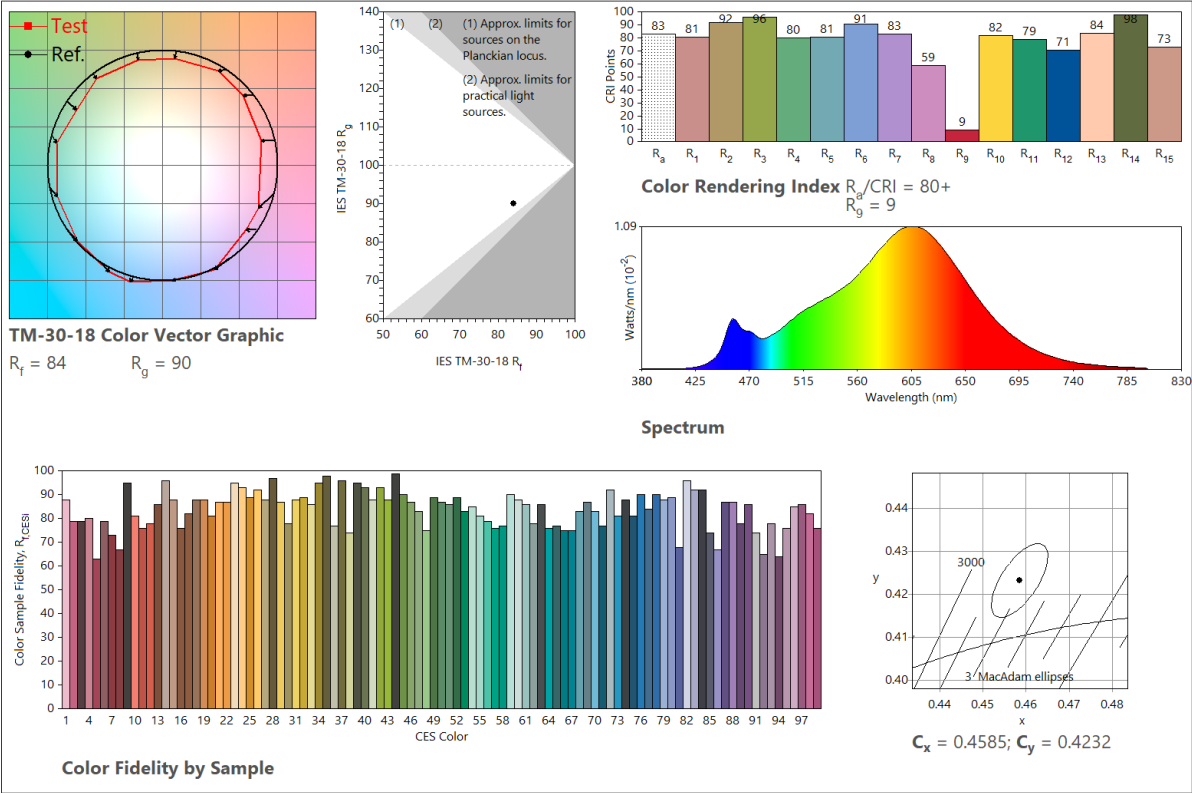
LFD600S-G2-965-06



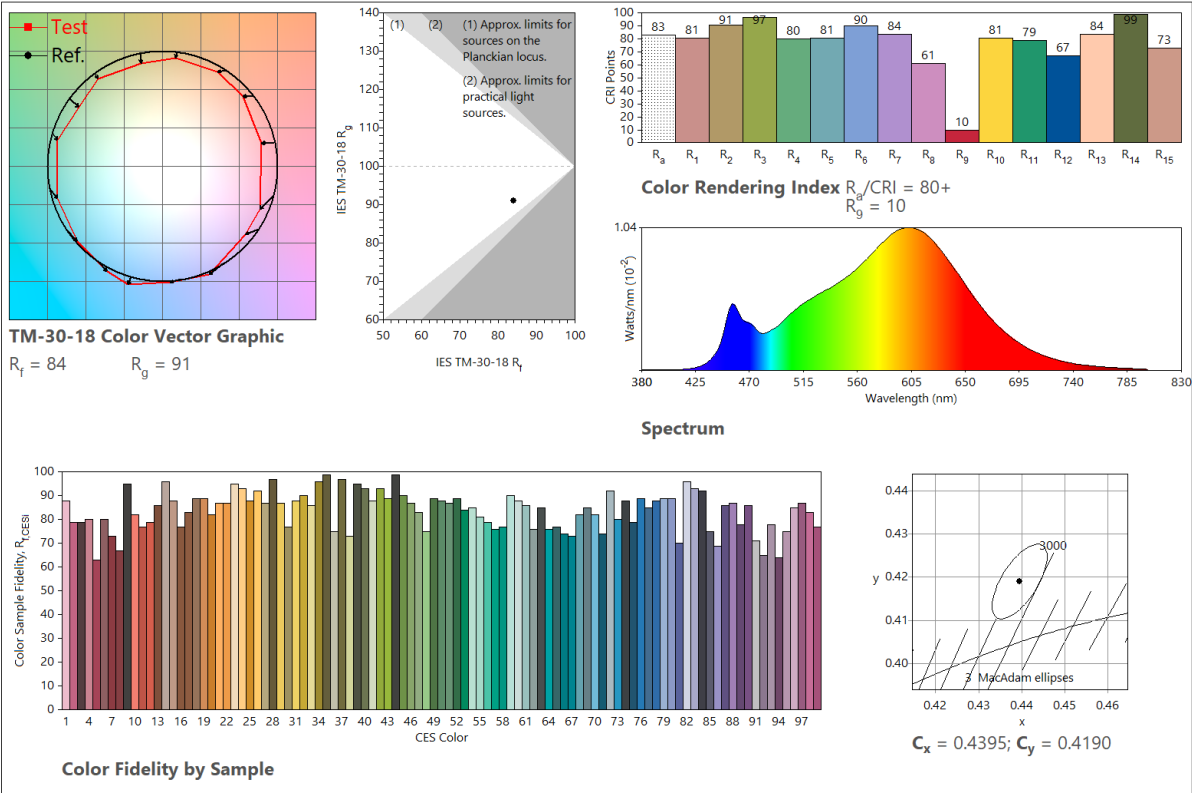
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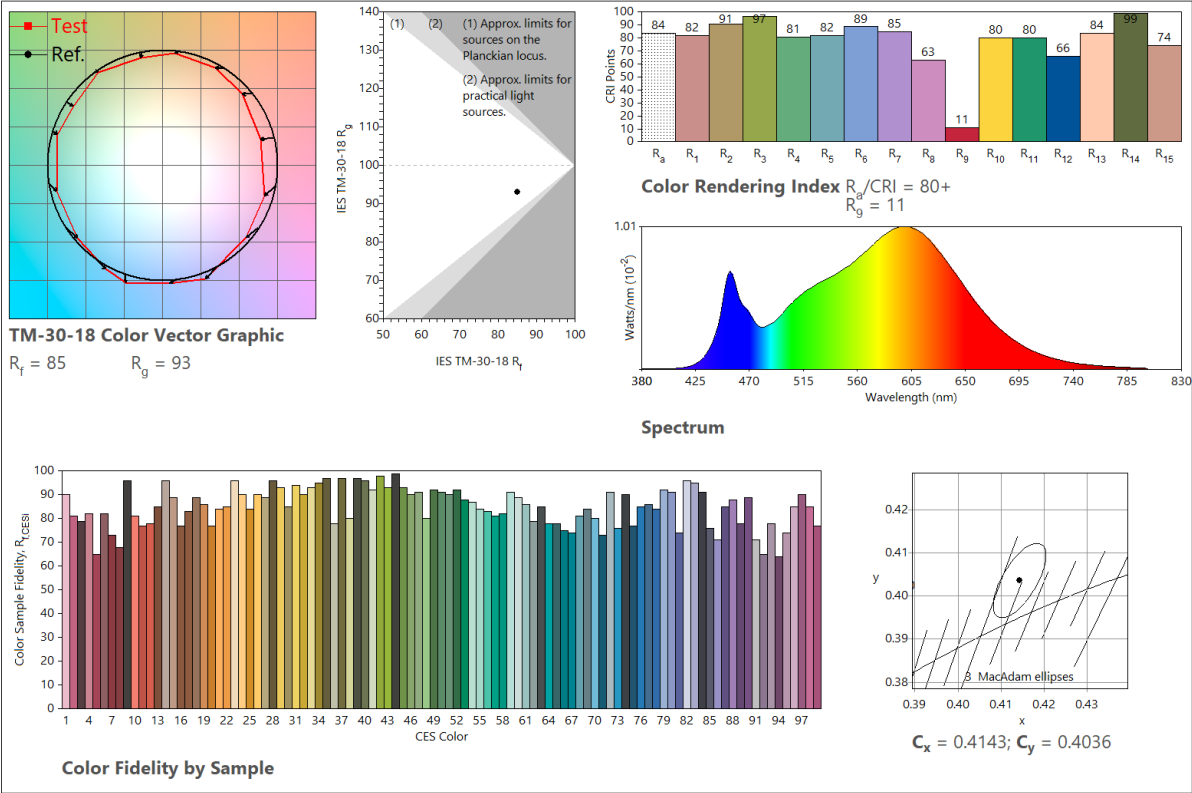
LFD1000S-G2-827-04



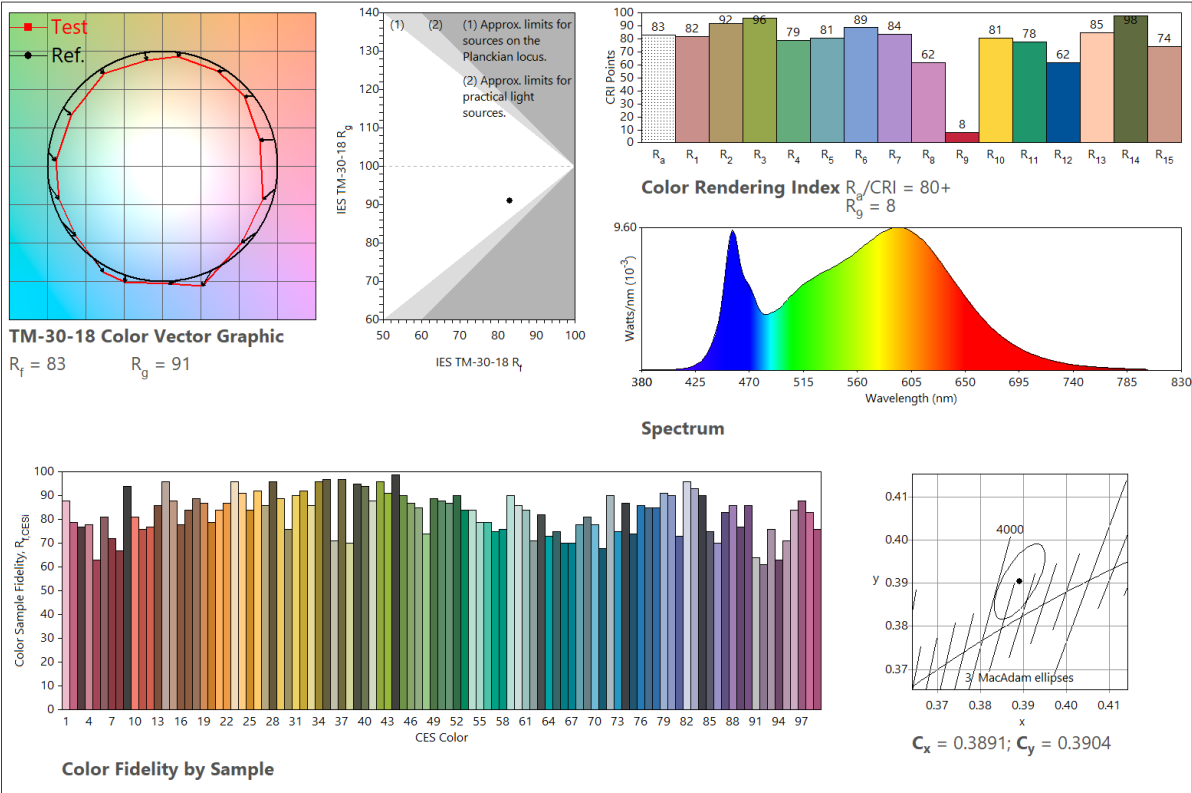
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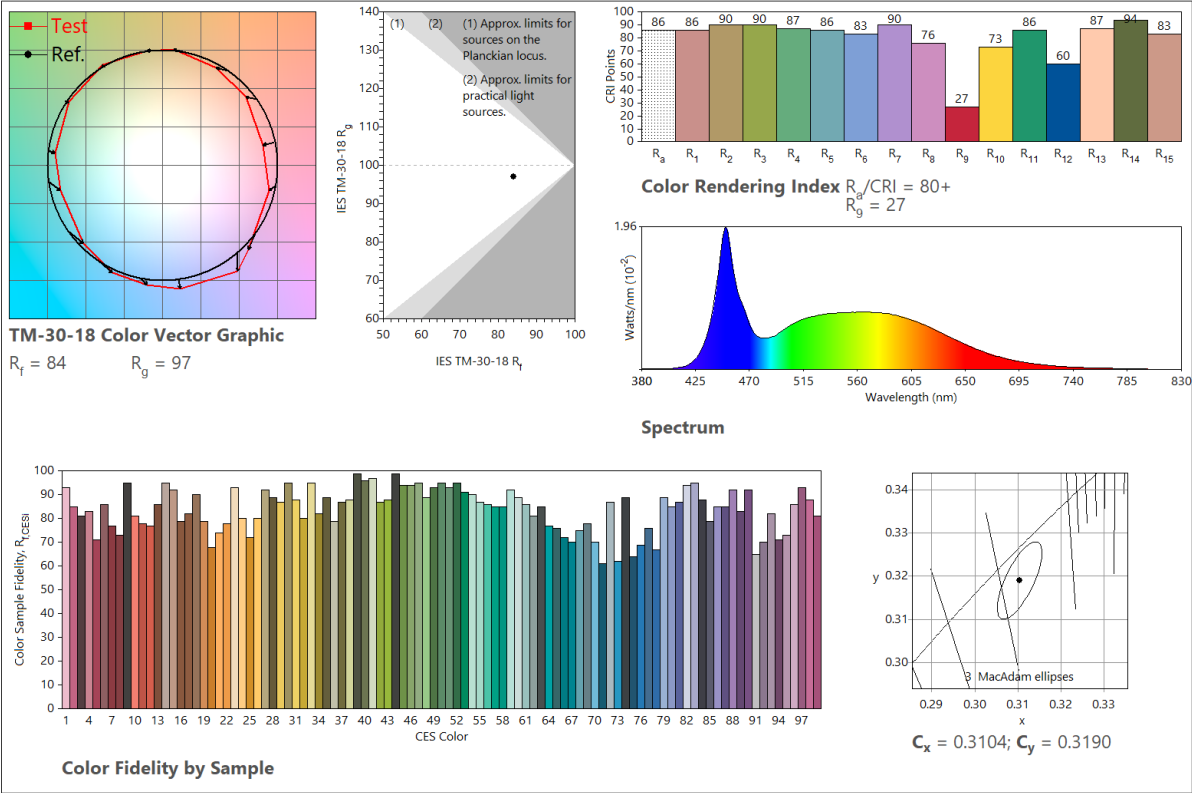
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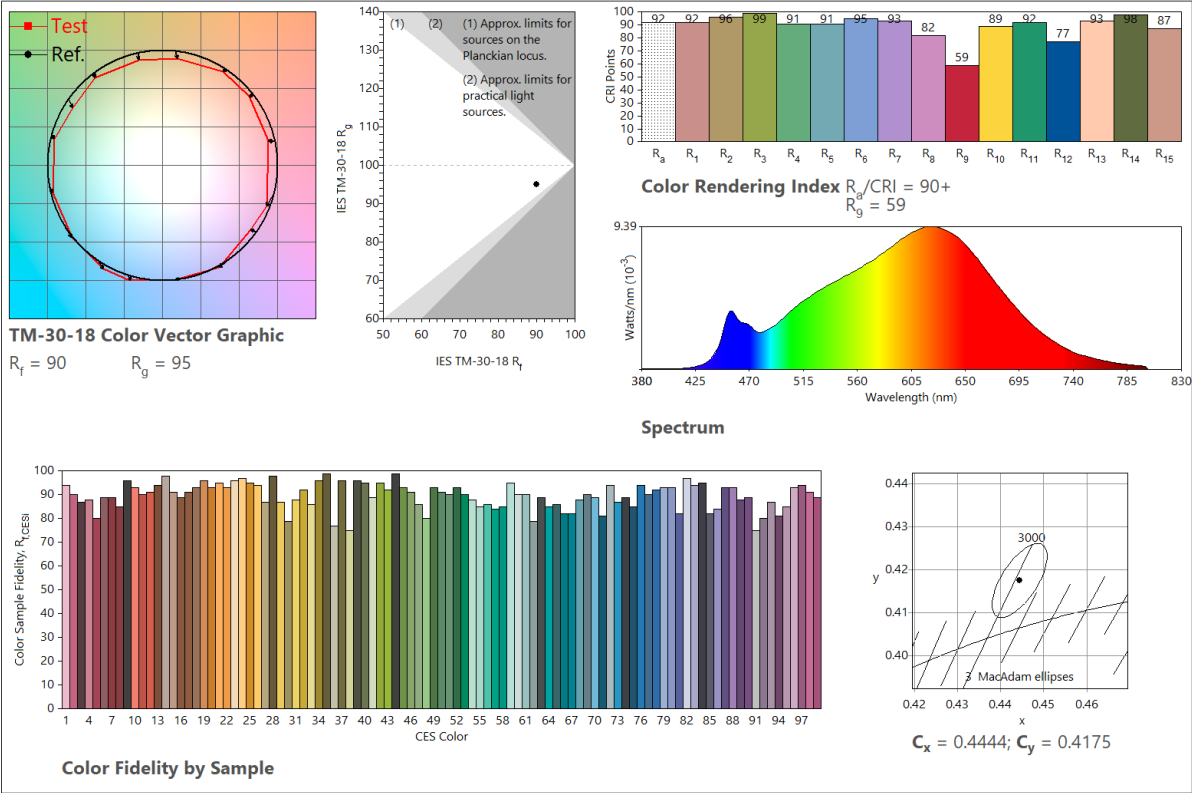
LFD1000S-G2-840-04



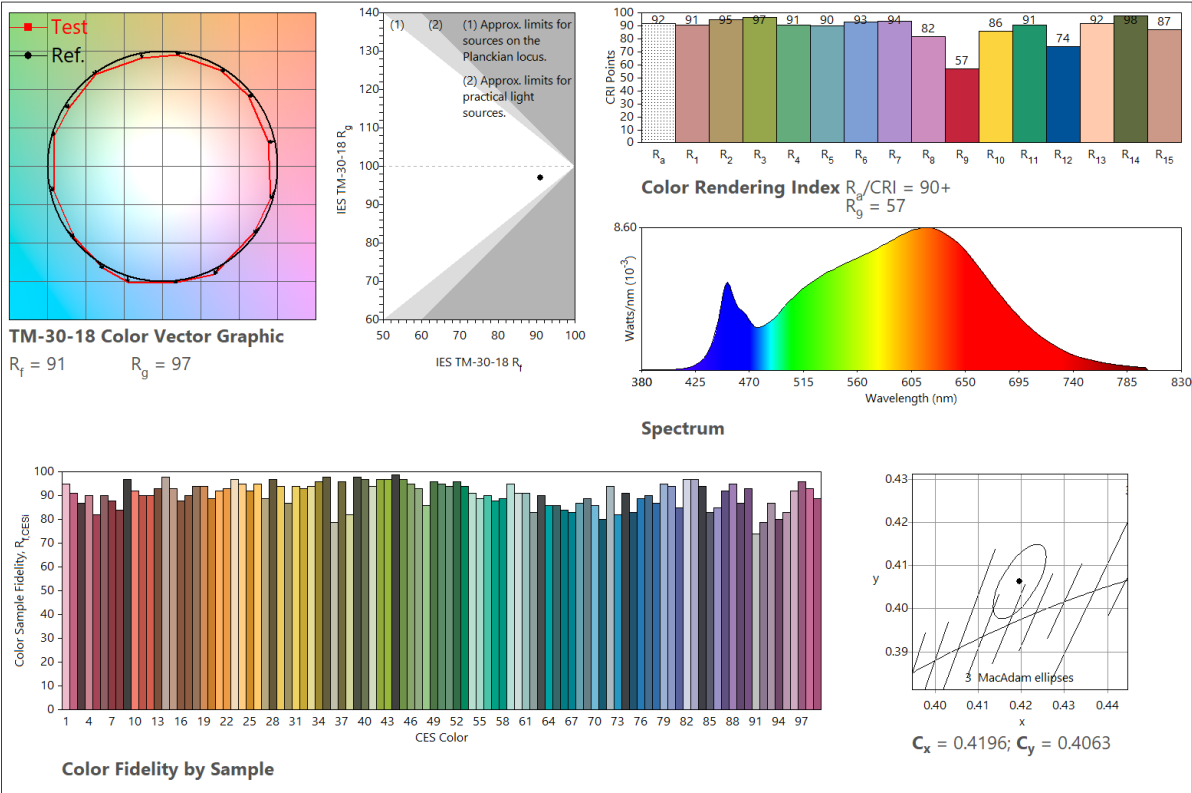
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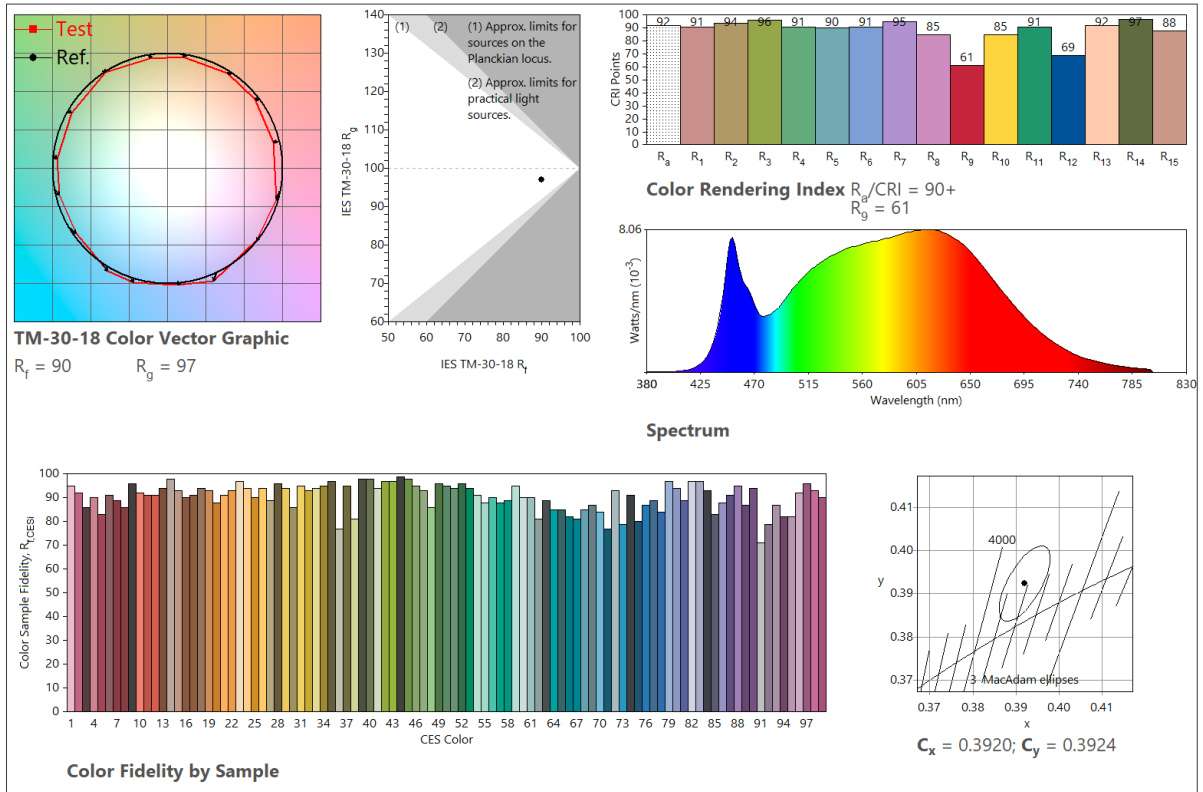
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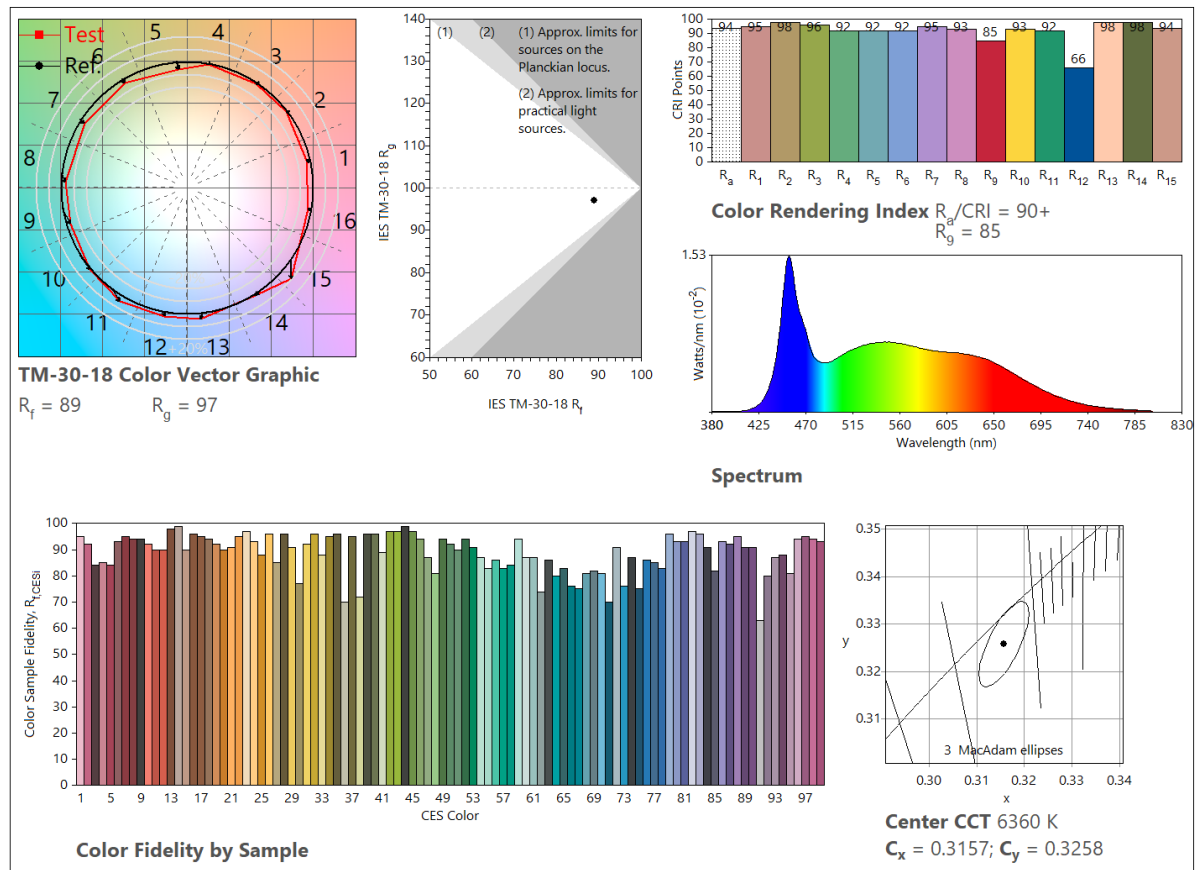
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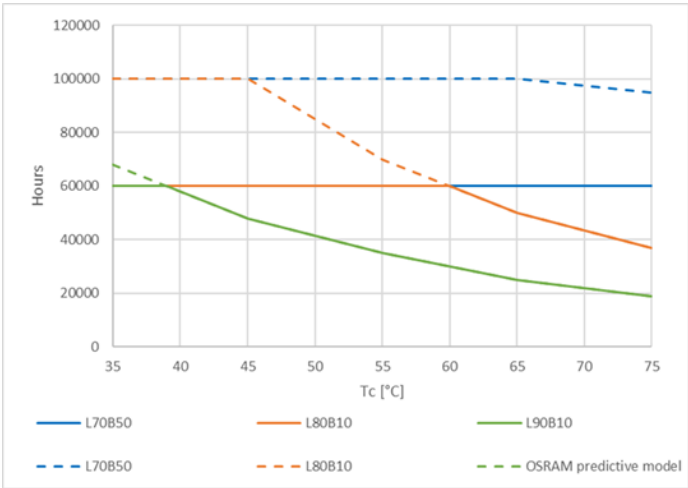


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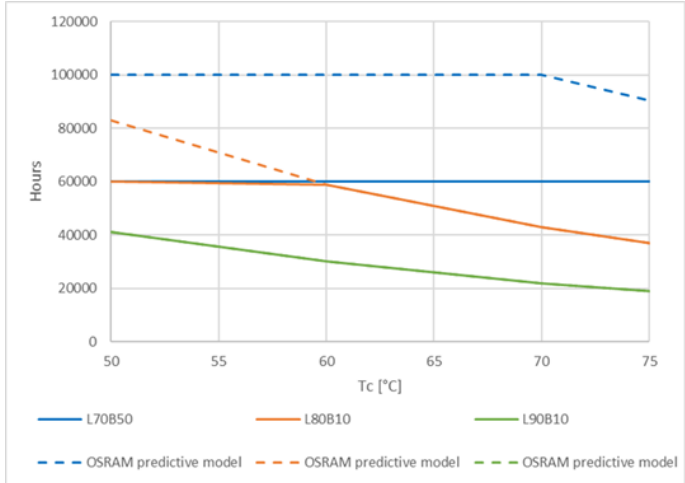


Lifetime

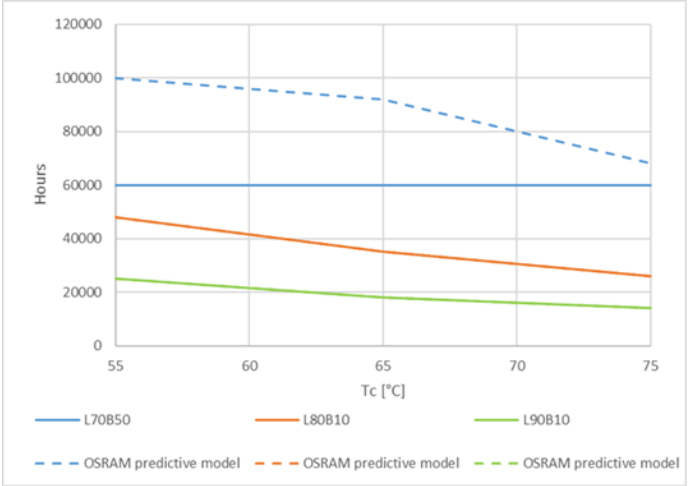
LFD400S



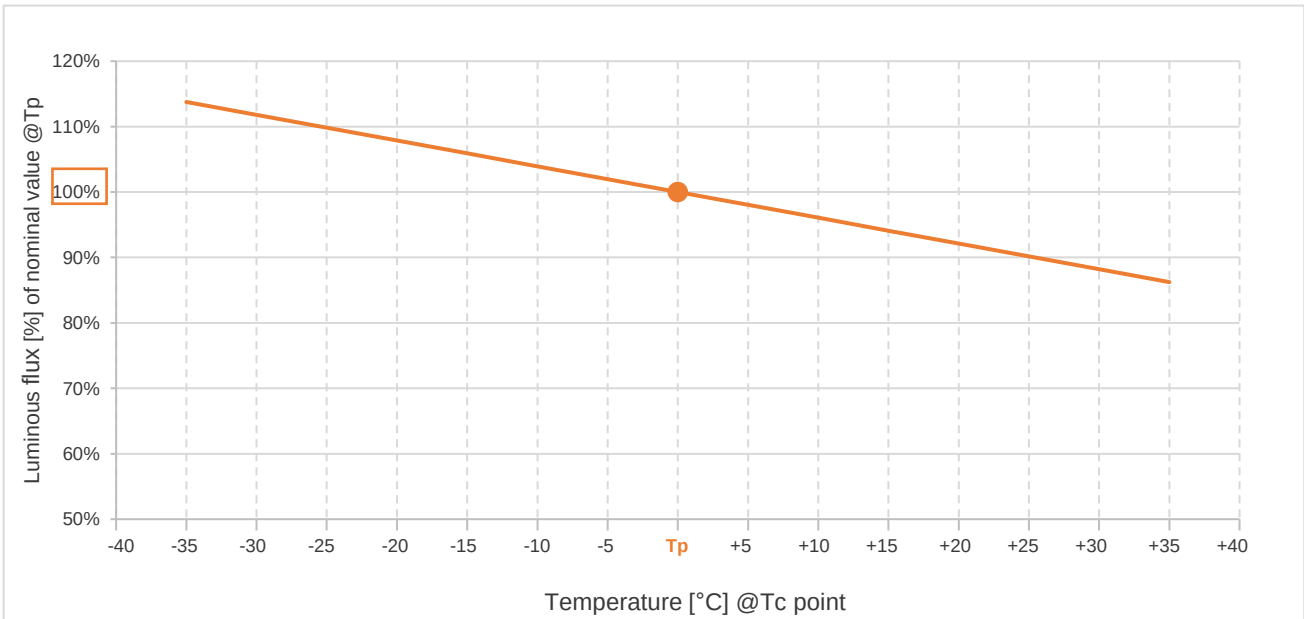
LFD600S



LFD1000S



Luminous Flux vs Tc value



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

Order Code

Product description	Product code	Dimensions (length x width x height)	EAN10 Package content
LFD400S-G2-824-10	4062172273992	519 x 167 x 525 mm	1x Diffuse LED strip
LFD400S-G2-827-10	4062172274012	519 x 167 x 525 mm	1x Diffuse LED strip
LFD400S-G2-830-10	4062172274036	519 x 167 x 525 mm	1x Diffuse LED strip
LFD400S-G2-835-10	4062172274050	519 x 167 x 525 mm	1x Diffuse LED strip
LFD400S-G2-840-10	4062172274074	519 x 167 x 525 mm	1x Diffuse LED strip
LFD400S-G2-865-10	4062172274098	519 x 167 x 525 mm	1x Diffuse LED strip
LFD400S-G2-924-10	4062172274111	519 x 167 x 525 mm	1x Diffuse LED strip
LFD400S-G2-927-10	4062172274135	519 x 167 x 525 mm	1x Diffuse LED strip
LFD400S-G2-930-10	4062172274159	519 x 167 x 525 mm	1x Diffuse LED strip
LFD400S-G2-935-10	4062172274173	519 x 167 x 525 mm	1x Diffuse LED strip
LFD400S-G2-940-10	4062172274197	519 x 167 x 525 mm	1x Diffuse LED strip
LFD400S-G2-965-10	4062172274210	519 x 167 x 525 mm	1x Diffuse LED strip
LFD600S-G2-824-06	4062172270618	420 x 232 x 430 mm	1x Diffuse LED strip
LFD600S-G2-827-06	4062172270632	420 x 232 x 430 mm	1x Diffuse LED strip
LFD600S-G2-830-06	4062172270656	420 x 232 x 430 mm	1x Diffuse LED strip
LFD600S-G2-835-06	4062172270670	420 x 232 x 430 mm	1x Diffuse LED strip
LFD600S-G2-840-06	4062172270694	420 x 232 x 430 mm	1x Diffuse LED strip
LFD600S-G2-865-06	4062172270717	420 x 232 x 430 mm	1x Diffuse LED strip
LFD600S-G2-924-06	4062172270731	420 x 232 x 430 mm	1x Diffuse LED strip
LFD600S-G2-927-06	4062172270755	420 x 232 x 430 mm	1x Diffuse LED strip
LFD600S-G2-930-06	4062172270779	420 x 232 x 430 mm	1x Diffuse LED strip
LFD600S-G2-935-06	4062172270793	420 x 232 x 430 mm	1x Diffuse LED strip
LFD600S-G2-940-06	4062172270816	420 x 232 x 430 mm	1x Diffuse LED strip
LFD600S-G2-965-06	4062172270830	420 x 232 x 430 mm	1x Diffuse LED strip
LFD1000S-G2-824-04	4062172271097	420 x 232 x 430 mm	1x Diffuse LED strip
LFD1000S-G2-827-04	4062172271110	420 x 232 x 430 mm	1x Diffuse LED strip
LFD1000S-G2-830-04	4062172271134	420 x 232 x 430 mm	1x Diffuse LED strip
LFD1000S-G2-835-04	4062172271158	420 x 232 x 430 mm	1x Diffuse LED strip
LFD1000S-G2-840-04	4062172271172	420 x 232 x 430 mm	1x Diffuse LED strip
LFD1000S-G2-865-04	4062172271196	420 x 232 x 430 mm	1x Diffuse LED strip
LFD1000S-G2-927-04	4062172271233	420 x 232 x 430 mm	1x Diffuse LED strip
LFD1000S-G2-930-04	4062172271257	420 x 232 x 430 mm	1x Diffuse LED strip
LFD1000S-G2-935-04	4062172271271	420 x 232 x 430 mm	1x Diffuse LED strip
LFD1000S-G2-940-04	4062172271295	420 x 232 x 430 mm	1x Diffuse LED strip
LFD1000S-G2-965-04	4062172271318	420 x 232 x 430 mm	1x Diffuse LED strip

Optional accessories

Product Type	Product description	Product code (EAN10)	EAN10 Package content
 Middle power feeder	FX-DCS-G1-CM2PF-IP67-0500-X5	4052899451971	5x Feeder
 Strip to strip middle jumper	FX-DCS-G1-CM2PJ-IP67-0190-X5	4052899452039	5x Jumper
 Feeder kit with endcaps & glue	FX-DCS-G1-CM2PF-IP67-SIDEKIT5	4052899452015	5x Feeder, 10x Endcaps, 1x Glue (5g)
 Endcaps & glue	FX-DCS-G1-ECS-KIT20	4052899452121	20x Endcaps, 2x Glue (5g)
 Double-sided endcaps & glue	FX-DCS-G1-EHS-KIT20	4052899452206	20x Endcaps, 1x Glue (25g)
 Silicone glue 25 g	FX-DCS-G1-GL-25	4052899452244	1x Glue (25g)
 Mounting bracket	FX-QMS-G1-BMZI-DIV1	4052899446861	40x Mounting Bracket
 Mounting bracket	FX-LFDM-G1-BS-12H13	4052899452541	50x Mounting Bracket
 Mounting bracket with additional wing	FX-LFDM-G1-BSL-12H13E9	4052899452572	50x Mounting Bracket
 Aluminum profile Side	FX-LFDM-G1-TS-16H16-200	4052899544925	5x Profile
 Steel profile bendable Side	FX-LFDM-BEND-1000 KIT 3 PCS	4062172192583	3x Profile

Ambient temperature – operating considerations

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

The table reports the maximum recommended ambient temperature for each listed profile in combination with LF Diffuse Side in case of recessed mounting. In this condition the expected T_c of LED strip is the maximum allowed.

THERMAL MEASUREMENTS FOR RECESSED MOUNTING						
				LFD400S	LFD600S	LFD1000S
Profile Type	Product description	Product code (EAN)	Ambient Temperature °C			
 Side profile	FX-LFDM -G1-TS-16H16-200	4052899544925	55	40	38	
 Bendable profile	FX-LFDM-BEND-1000 KIT 3 PCS	4062172192583	55	45	35	
Without any profile			55	45	35	

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

The table reports the maximum recommended ambient temperature for each listed profile in combination with LF Diffuse Side in case of surface mounting. In this condition the expected T_c of LED strip is the maximum allowed.

THERMAL MEASUREMENTS FOR SURFACE MOUNTING						
				LFD400S	LFD600S	LFD1000S
Profile Type	Product description	Product code (EAN)	Ambient Temperature °C			
 Side profile	FX-LFDM -G1-TS-16H16-200	4052899544925	55	45	40	
 Bendable profile	FX-LFDM-BEND-1000 KIT 3 PCS	4062172192583	55	45	35	
Without any profile			55	45	35	

Speaking code generator

You can generate your own LINEARlight FLEX DIFFUSE speaking code and send it to your OSRAM contact for detailed information by using the dedicated generator on OSRAM website: https://www.osram.com/ds/flexible-lighting-systems/tools-and-support/ds_speakingcodegenerator_diffuse.jsp

	LFD	800	T	924	10	C	T	L1	50	F	G2.1
Product family LINEARlight Flex DIFFUSE.....	LFD										
Luminous flux 400 lm/m.....		400									
600 lm/m.....		600									
800 lm/m.....		800									
1000 lm/m.....		1000									
1300 lm/m.....		1300									
Model Top.....			T								
Side.....			S								
Light tone CRI>80, 2400K.....				824							
CRI>80, 2700K.....				827							
CRI>80, 3000K.....				830							
CRI>80, 3500K.....				835							
CRI>80, 4000K.....				840							
CRI>80, 6500K.....				865							
CRI>90, 2400K.....				924							
CRI>90, 2700K.....				927							
CRI>90, 3000K.....				930							
CRI>90, 3500K.....				935							
CRI>90, 4000K.....				940							
CRI>90, 6500K.....				965							
Length From 10 to 1000 cm					10						
Connection Connector.....						C					
Bottom cable.....						B					
End cable.....						E					
Adhesive tape Tape.....							T				
No tape.....							X				
Wiring One end.....								L1			
Both ends.....								L2			
Wire length 50-500 cm									50		
Wire ends Flying leads.....										F	
Generation											G2.1

Note: LINEARlight FLEX DIFFUSE can be ordered both with standard and customized lengths.

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 typeface.