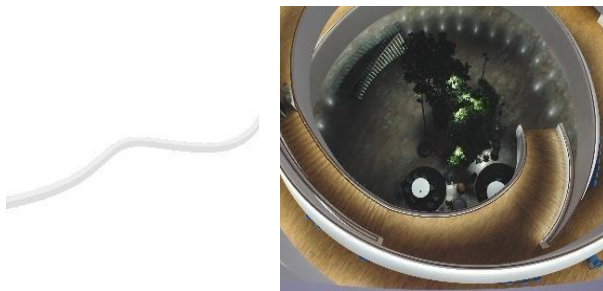




# LINEARlight FLEX<sup>®</sup> DIFFUSE G2 Side

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  $\leq 3$  SDCM
- Lifetime up to 60.000 hours L90B10 at Tp (LFD400S)
- Lifetime up to 60.000 hours L70B50 at Tp (LFD1000S)
- 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<sup>®</sup> LED drivers
- Suitable for outdoor use: UV and salt mist resistant
- Made in Italy



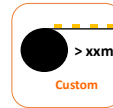
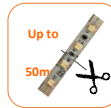
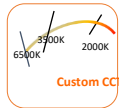
### Application areas

Architectural integration, Façade lighting, Cove lighting, Outdoor applications

### Standards

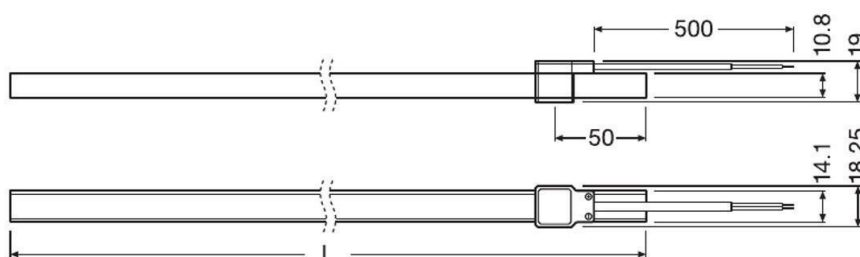
CE, UKCA, ENEC

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



## Technical drawings

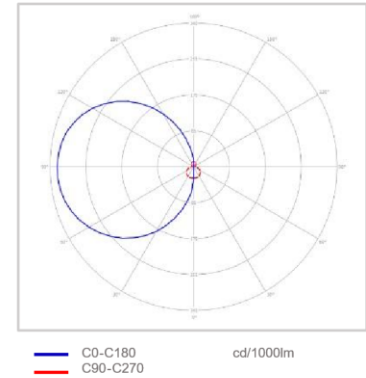
LFD400 / LFD600 / LFD1000 SIDE



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

Max. operable length = product length  
L: 10m for LFD400S  
6m for LFD600S  
4m for LFD1000S

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 L 80B10 @ Tp	60.000 h
Temperature range in operation @ Tc point	-30...+75 °C
Ambient Temperature with profile **	-30...+50 °C
Storage Temperature	-30...+75 °C



Beam Angle 120°

Technical data

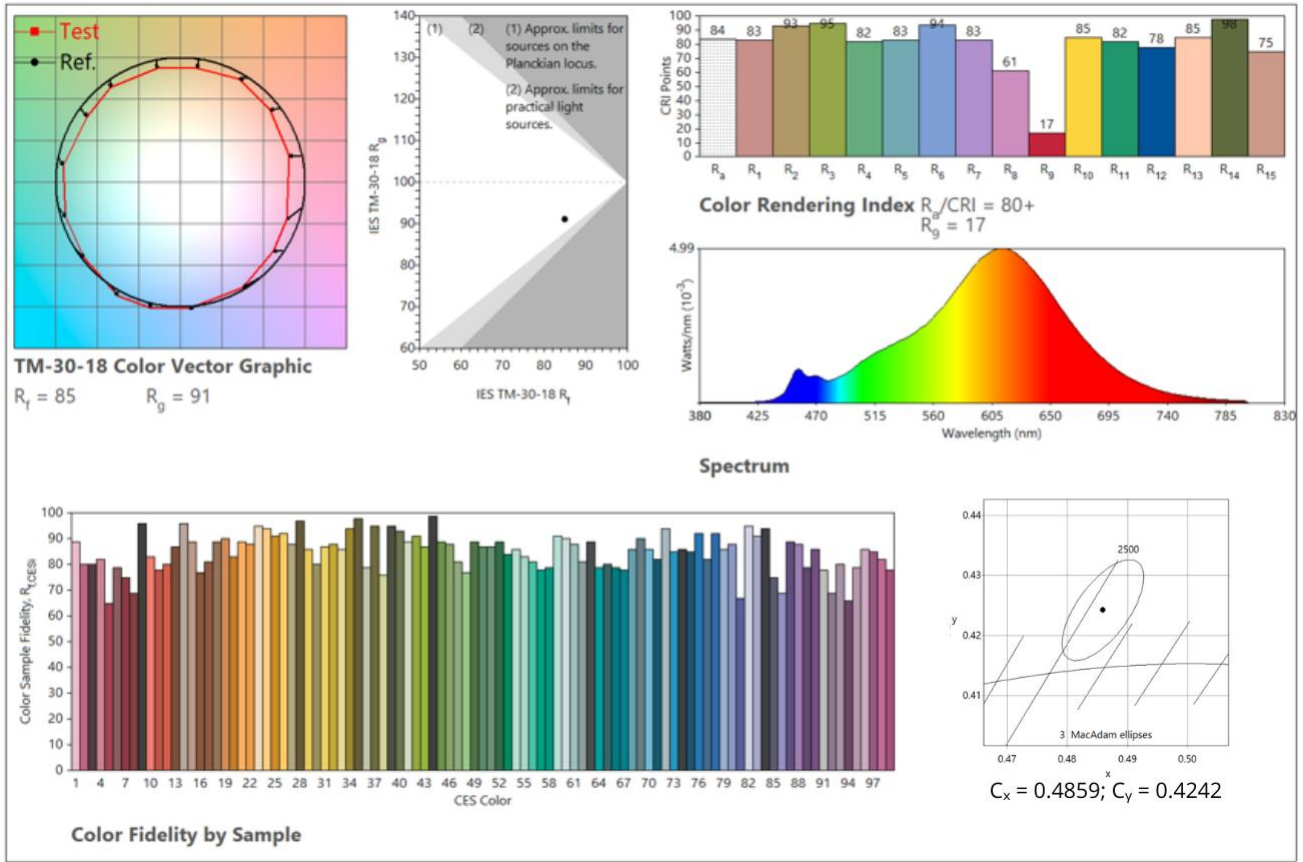
LFD400S White	Nominal CCT See color output data	CRI	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LFD400S-G2-824-10	● 2400 K	>80	390	8.9	44	35	10
LFD400S-G2-827-10	● 2700 K	>80	440	8.9	49	35	10
LFD400S-G2-830-10	● 3000 K	>80	460	8.9	52	35	10
LFD400S-G2-840-10	○ 4000 K	>80	460	8.9	52	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-G2-940-10	○ 4000 K	>90	390	8.9	44	35	10

LFD600S White	Nominal CCT See color output data	CRI	Luminous Flux 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-G2-840-06	○ 4000 K	>80	690	13.5	51	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-G2-940-06	○ 4000 K	>90	620	13.5	46	50	6

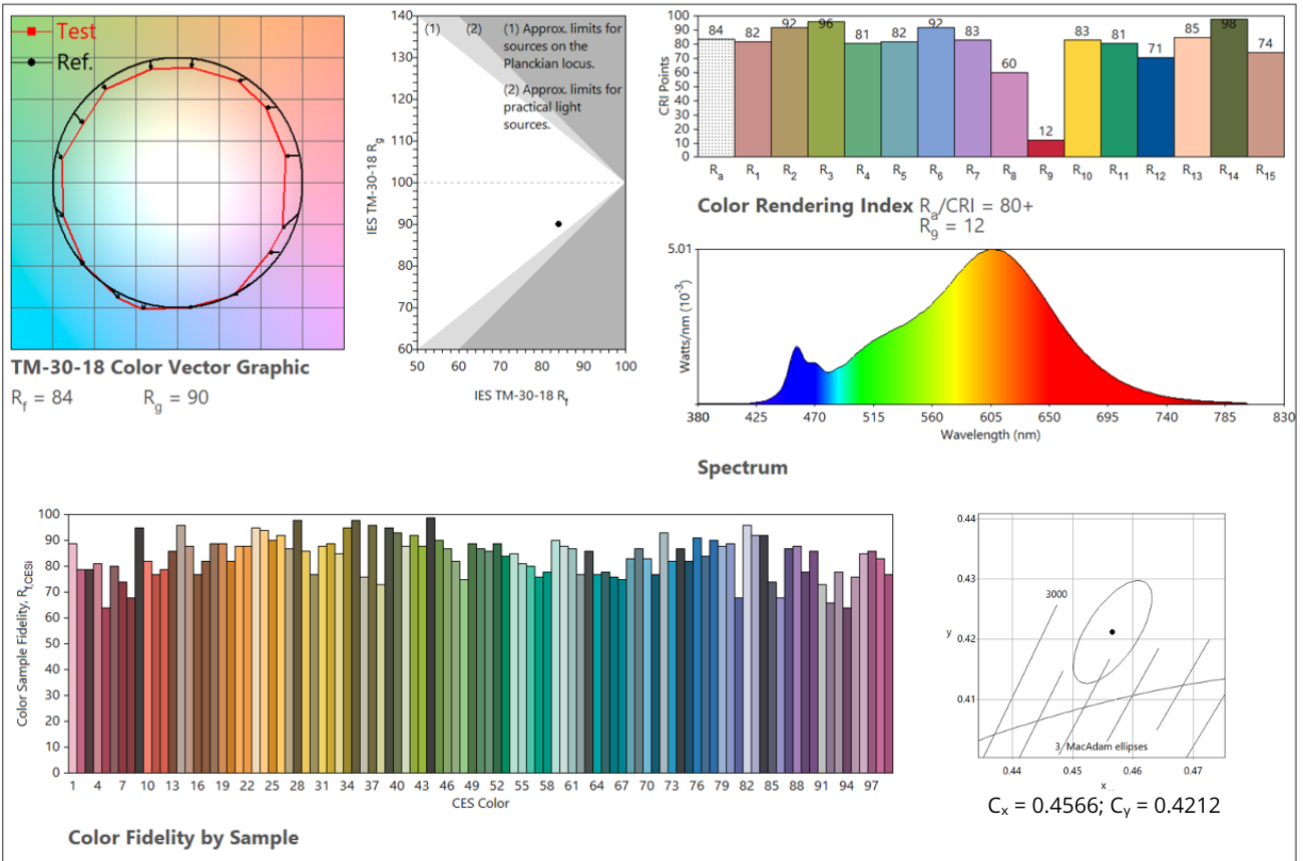
LFD1000S White	Nominal CCT See color output data	CRI	Luminous Flux lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LFD1000S-G2-824-04	● 2400 K	>80	830	20.9	48	55	4
LFD1000S-G2-827-04	● 2700 K	>80	980	20.9	48	55	4
LFD1000S-G2-830-04	● 3000 K	>80	1000	20.9	48	55	4
LFD1000S-G2-840-04	○ 4000 K	>80	1050	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-G2-940-04	○ 4000 K	>90	900	21	50	55	4

Color output data

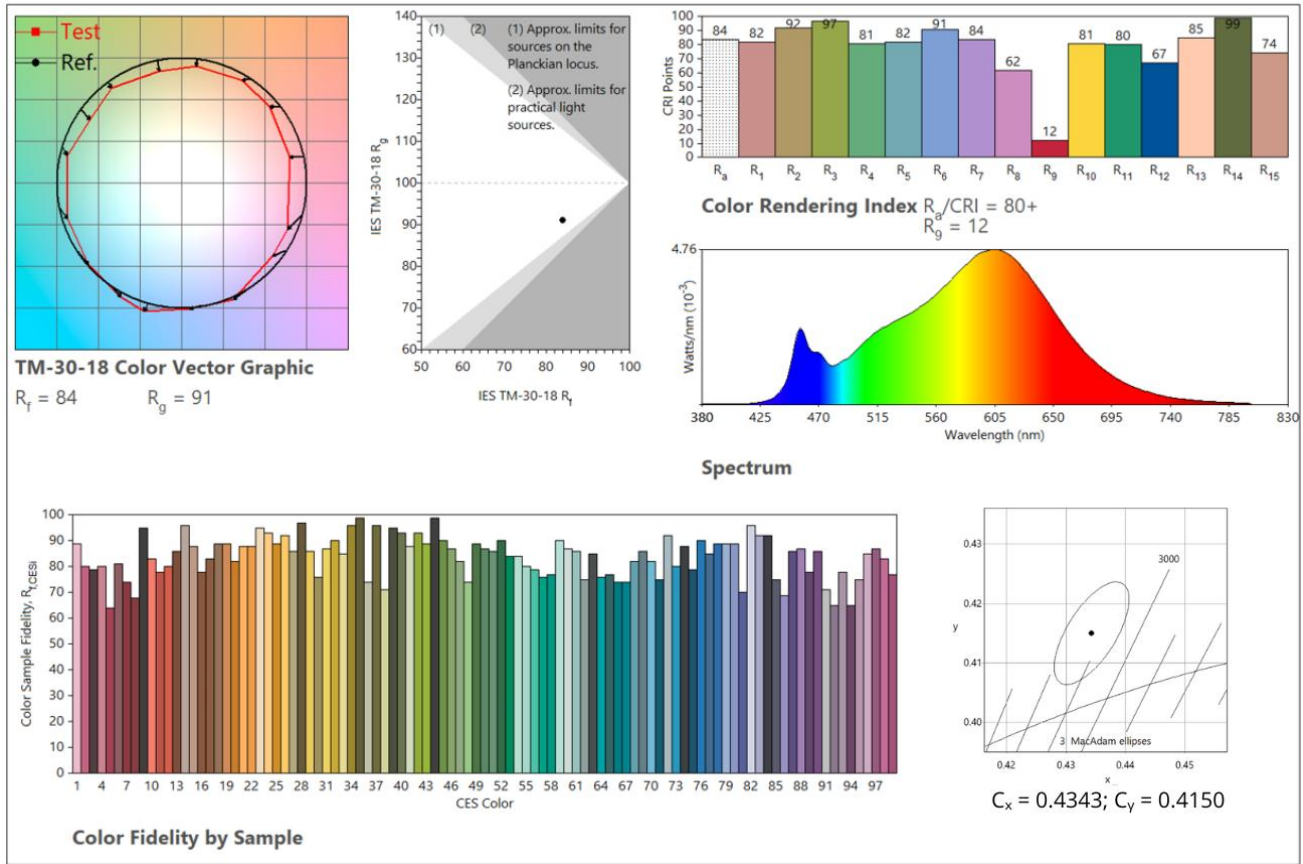
LFD400S-G2-824-10



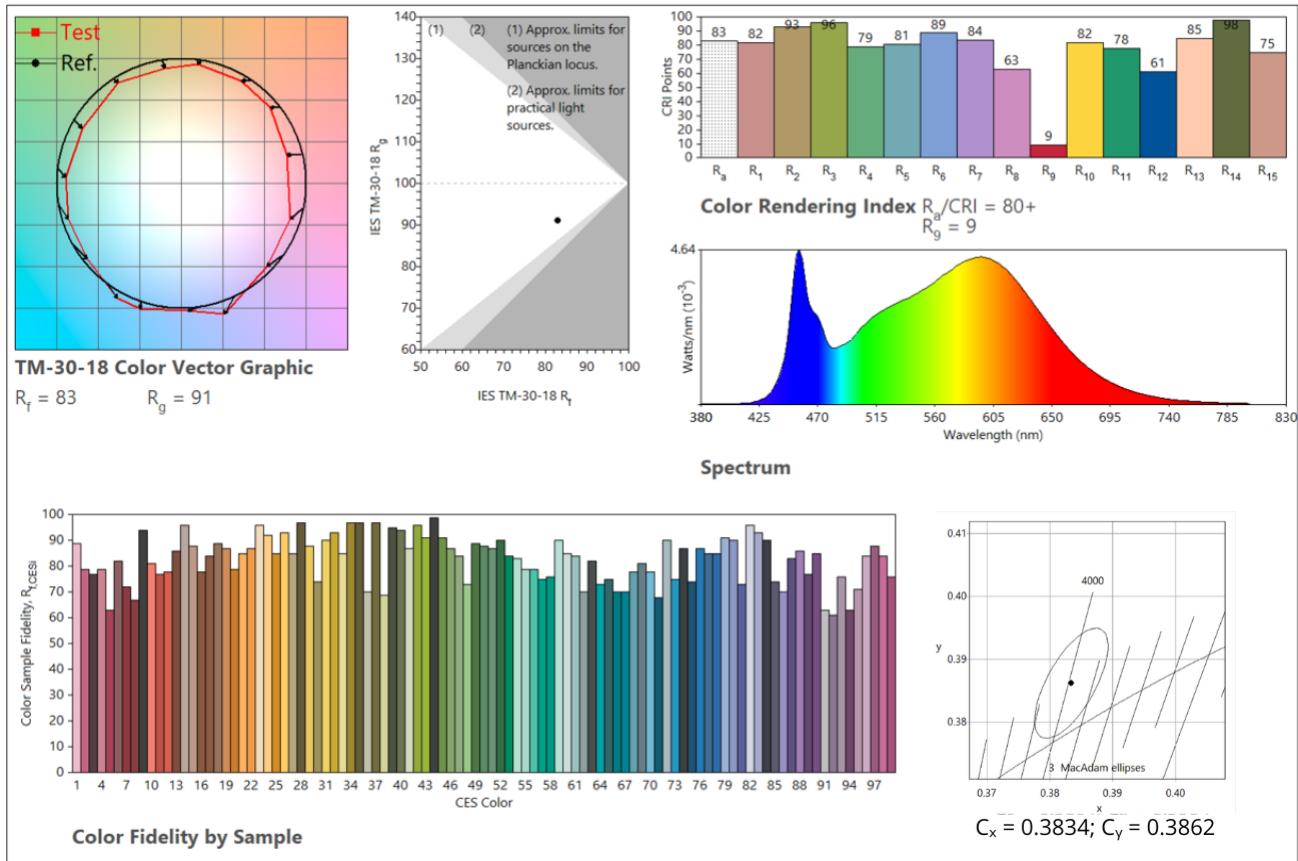
LFD400S-G2-827-10



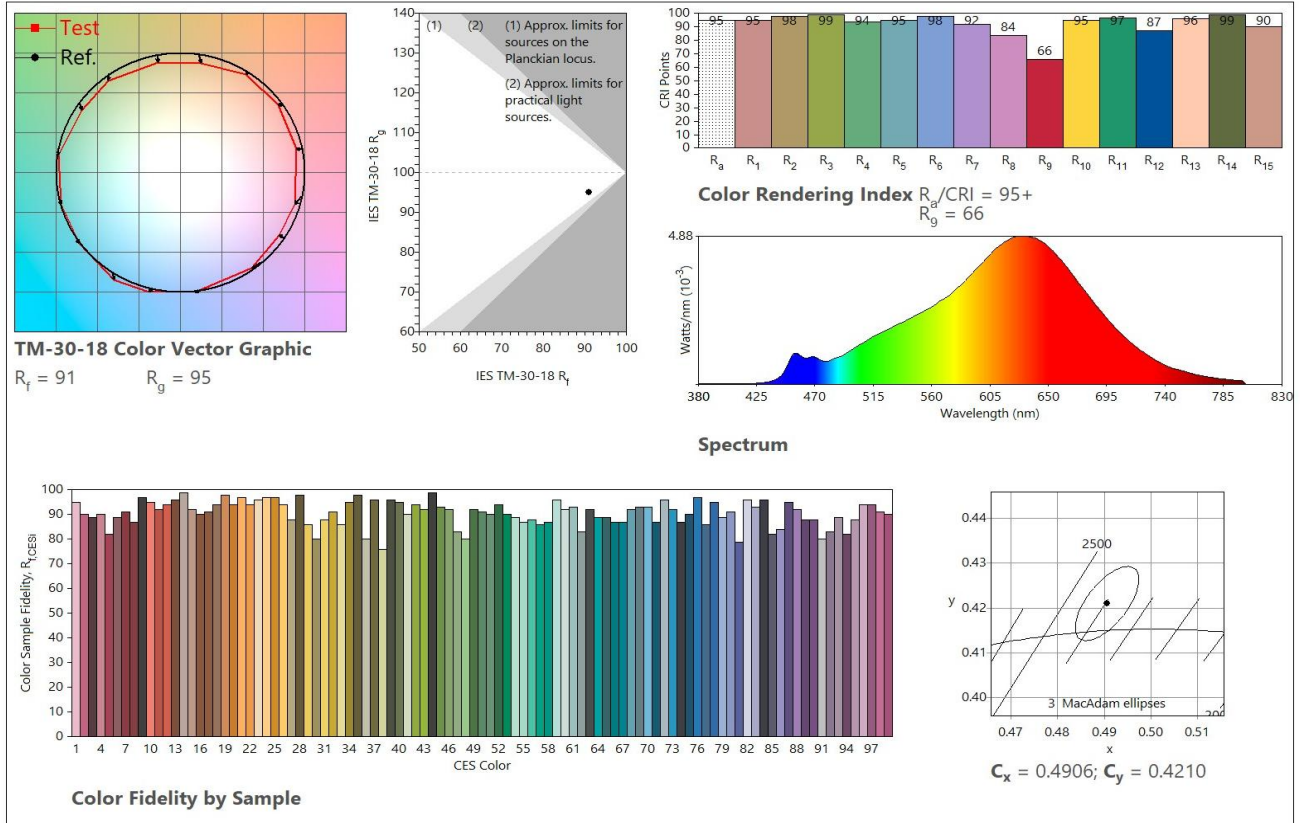
### LFD400S-G2-830-10



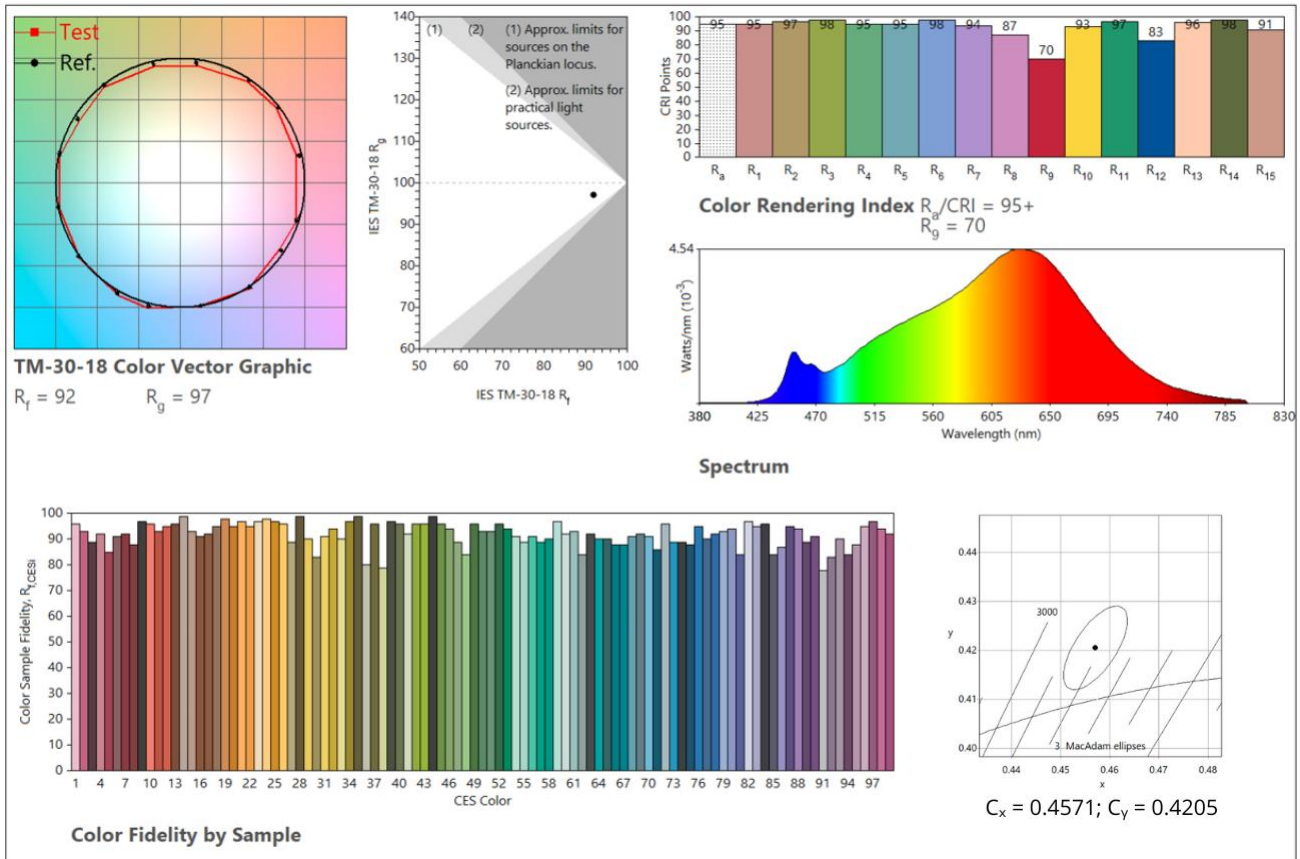
### LFD400S-G2-840-10



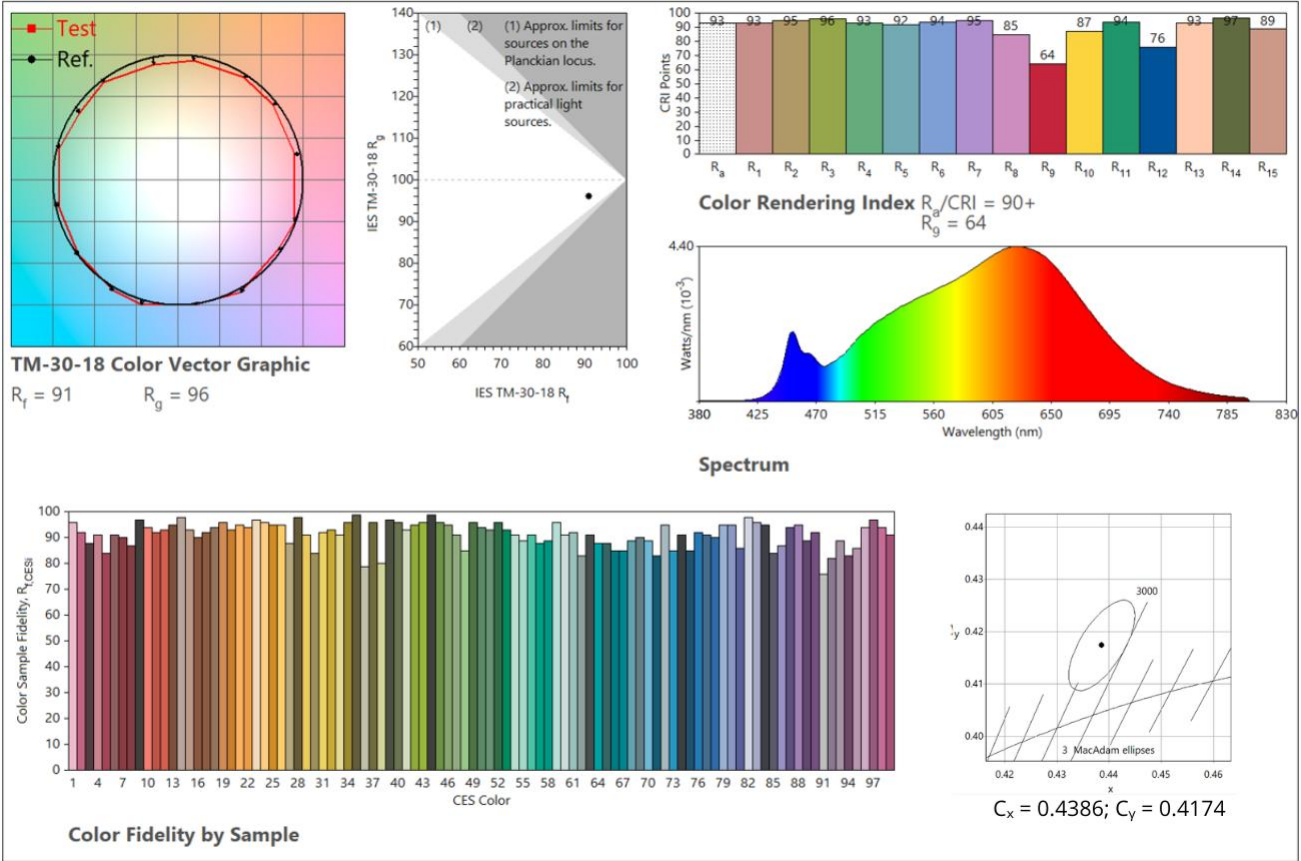
### LFD400S-G2-924-10



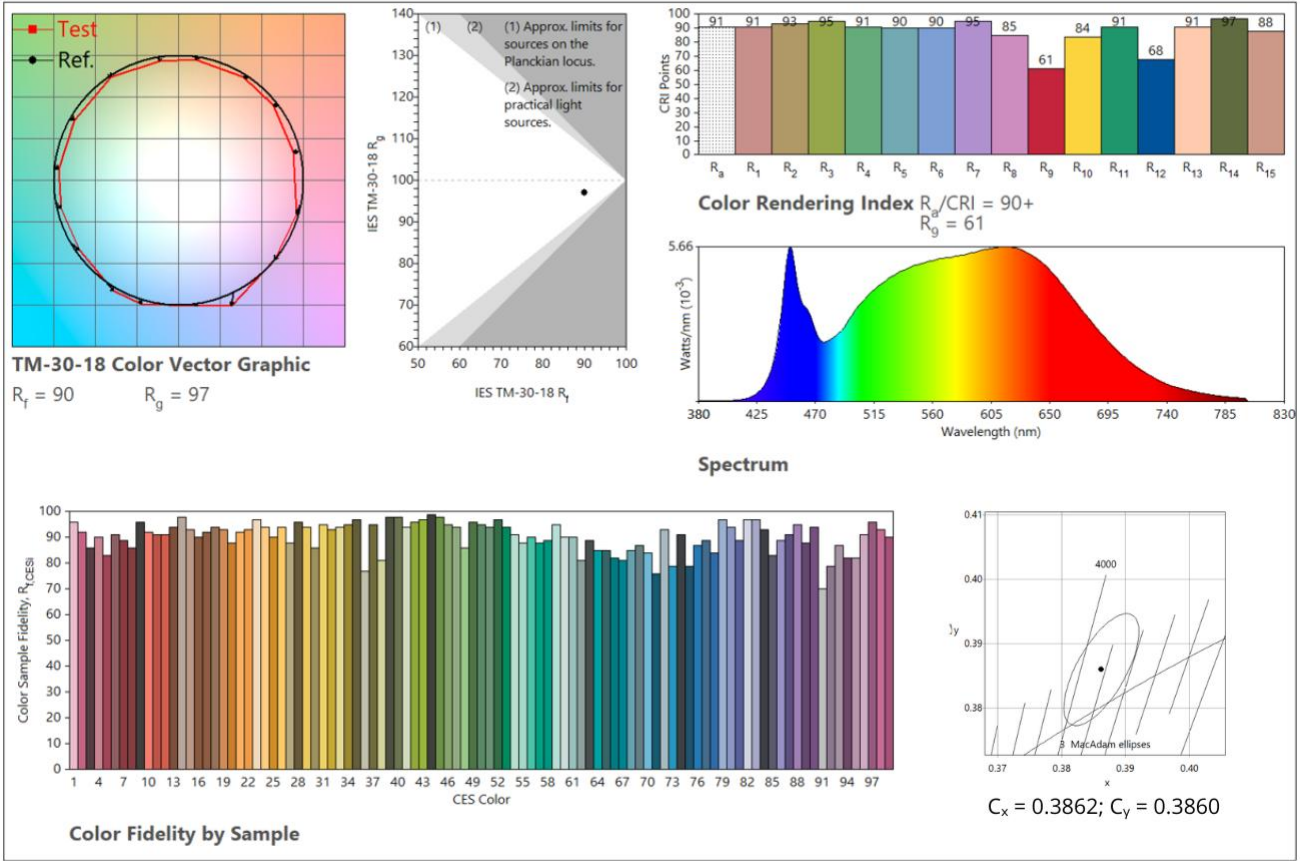
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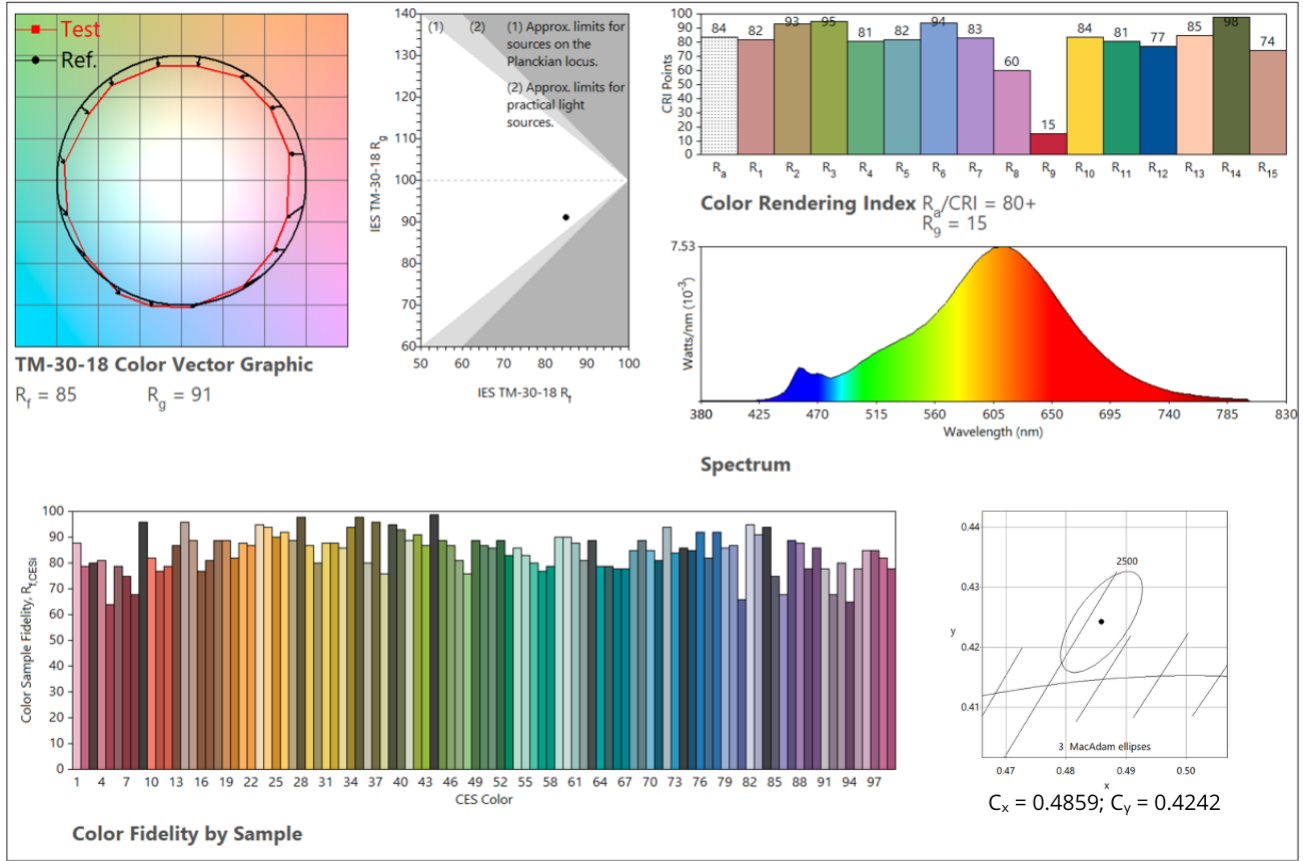
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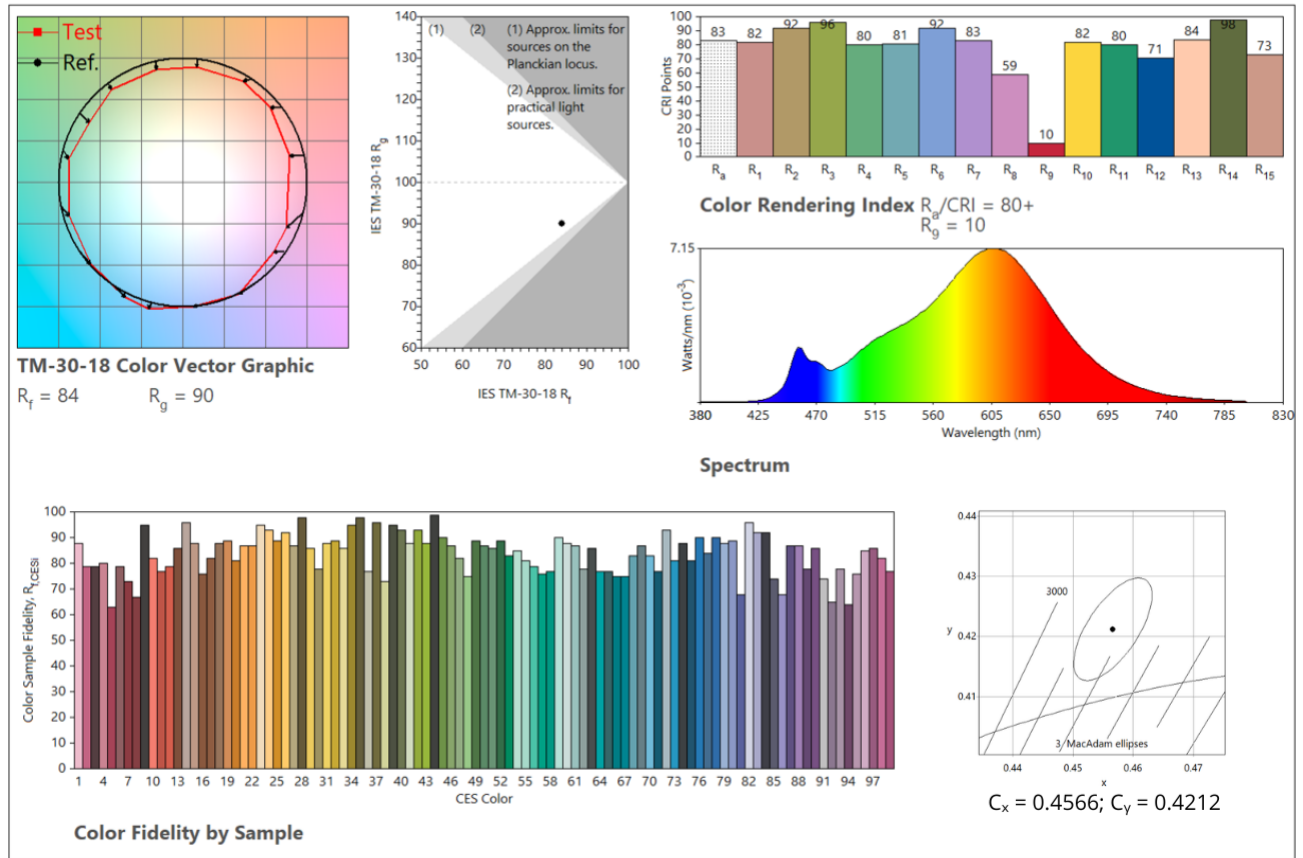
### LFD400S-G2-940-10



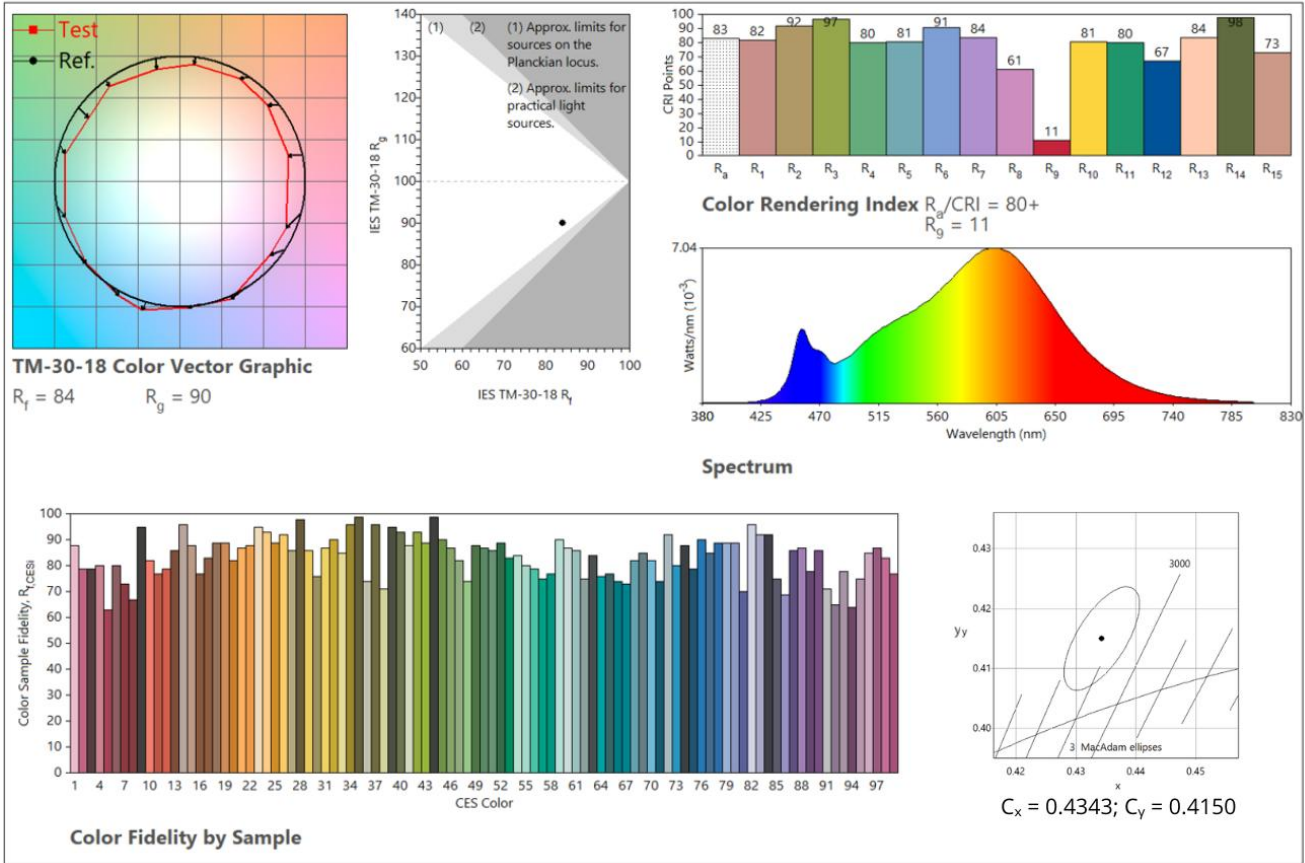
### LFD600S-G2-824-06



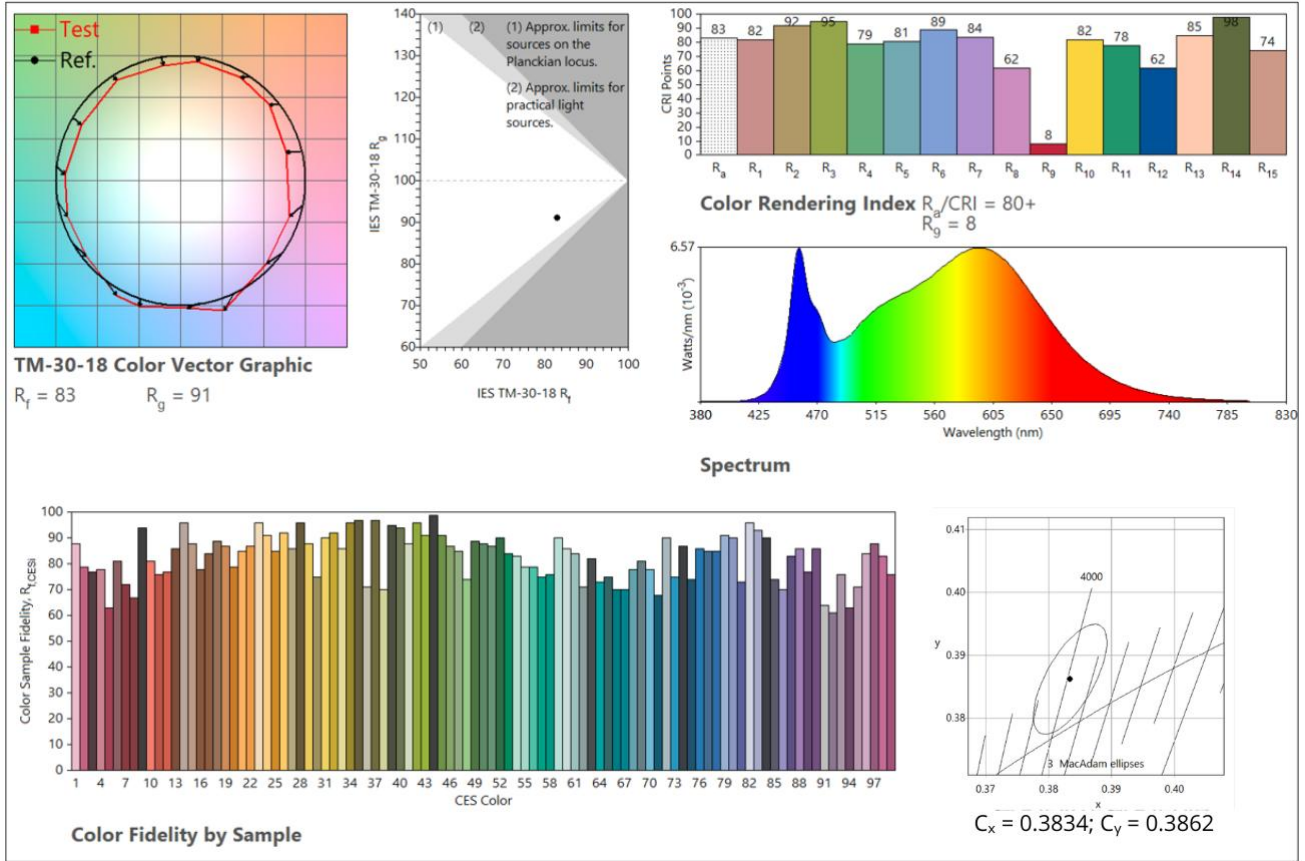
### LFD600S-G2-827-06



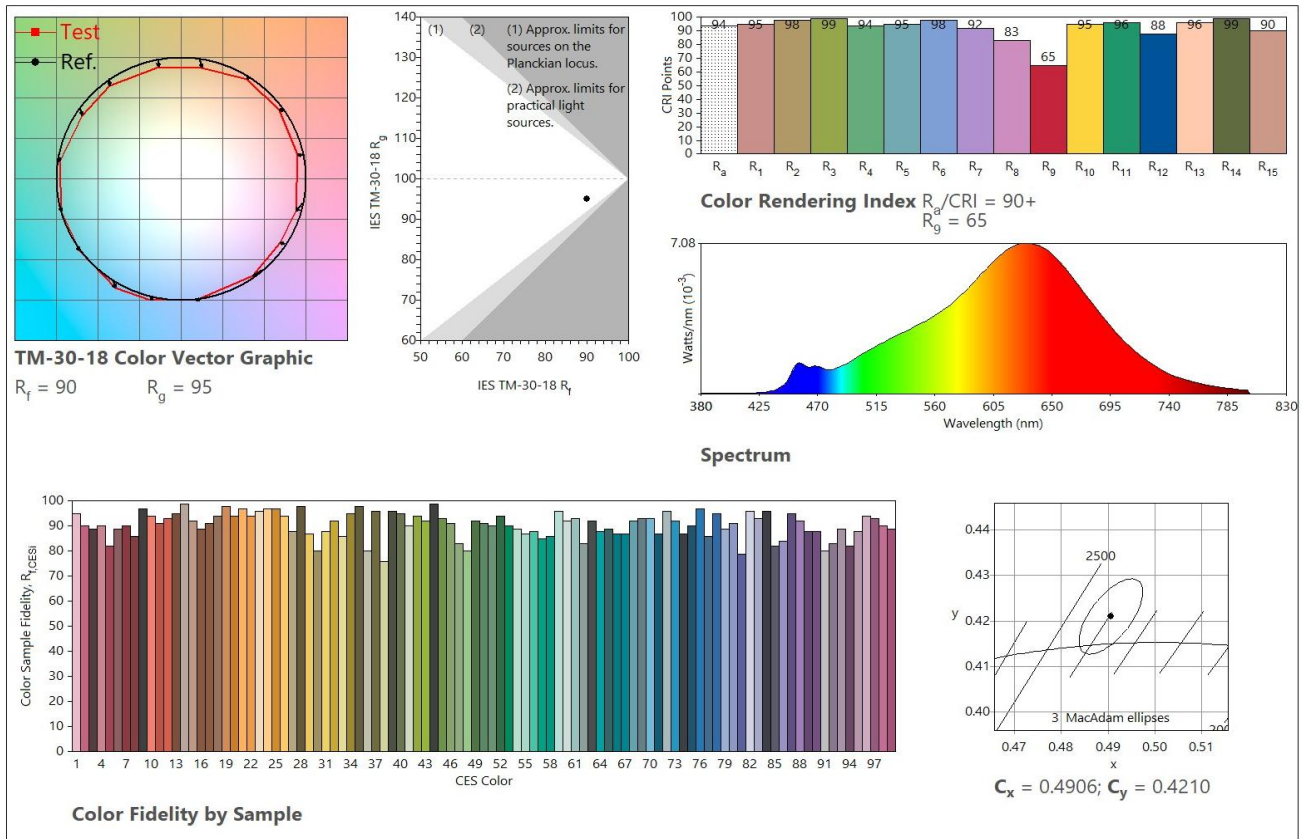
### LFD600S-G2-830-06



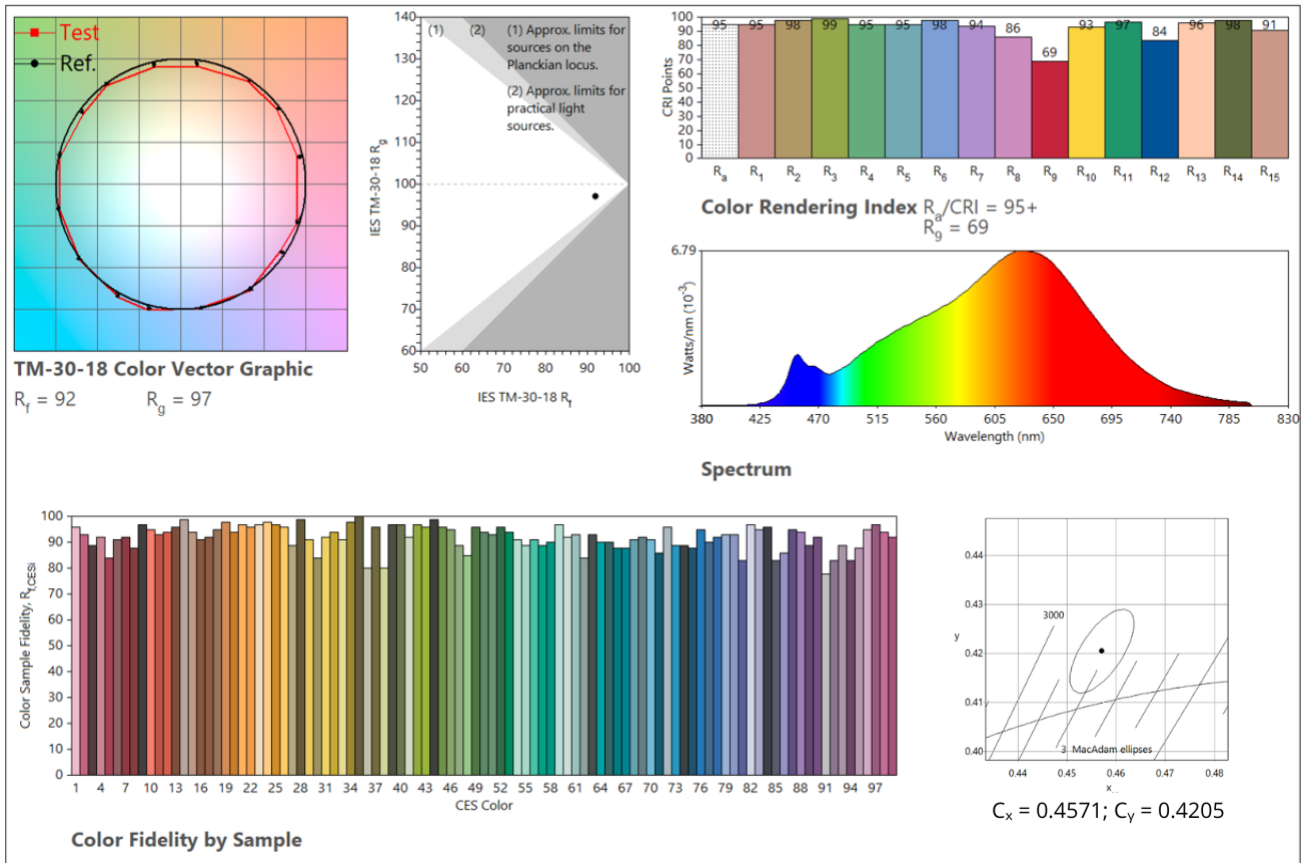
### LFD600S-G2-840-06



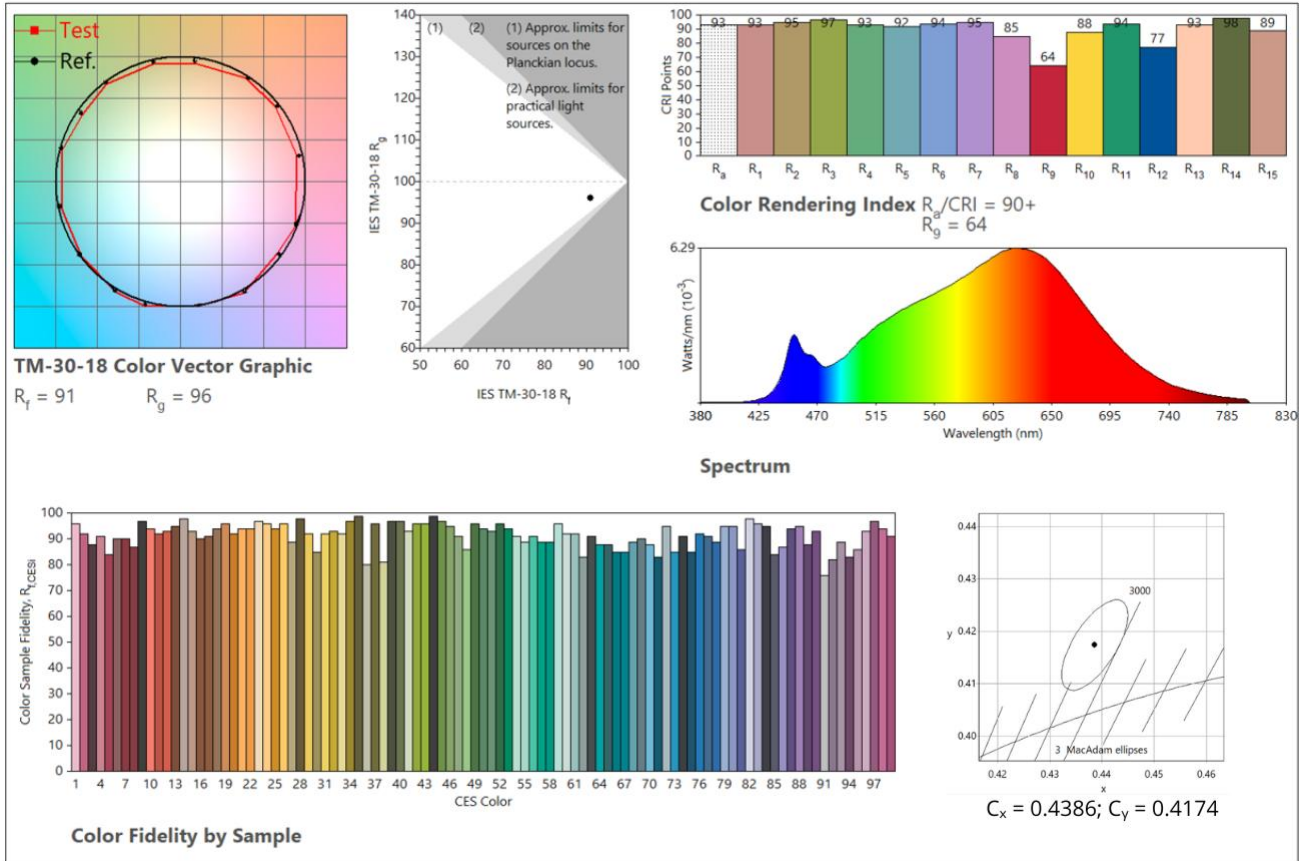
**LFD600S-G2-924-06**



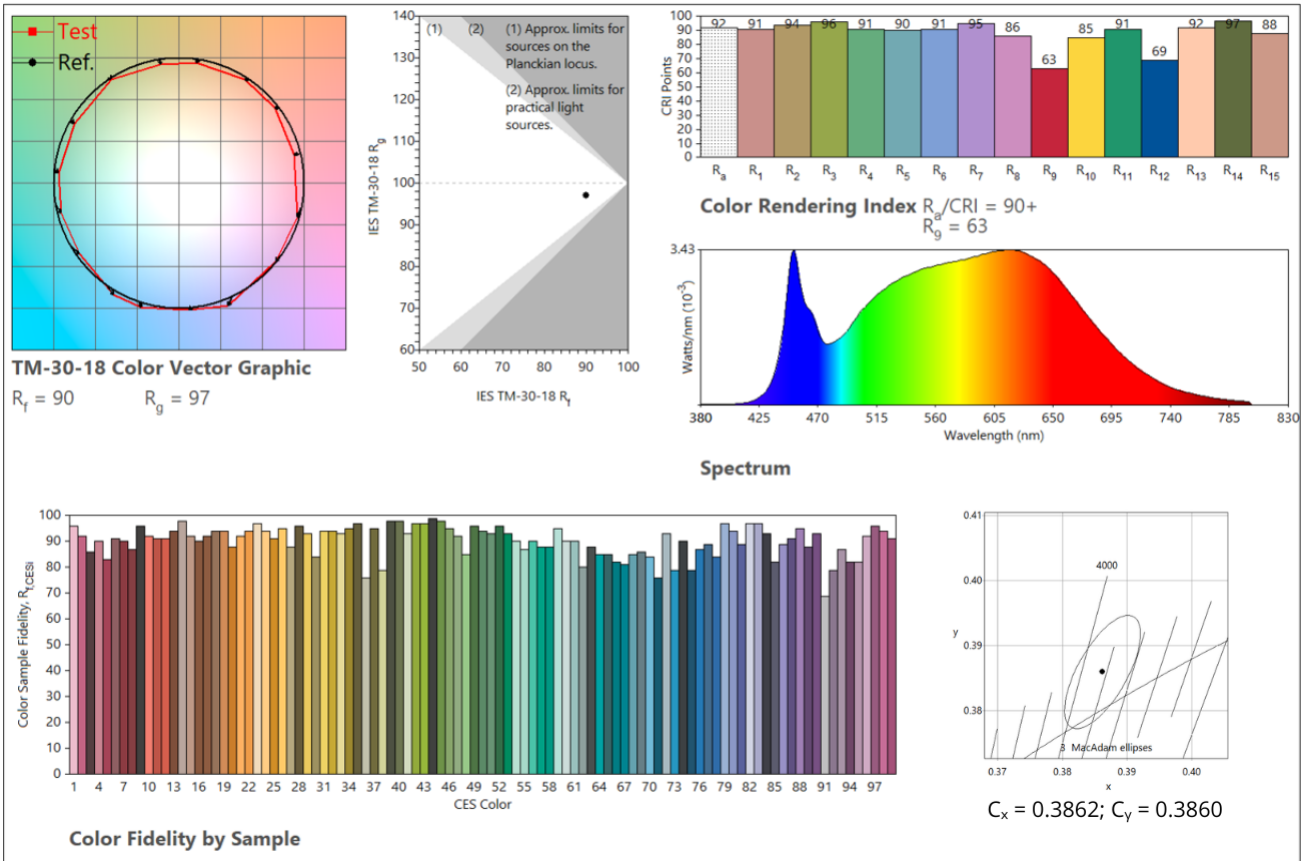
**LFD600S-G2-927-06**



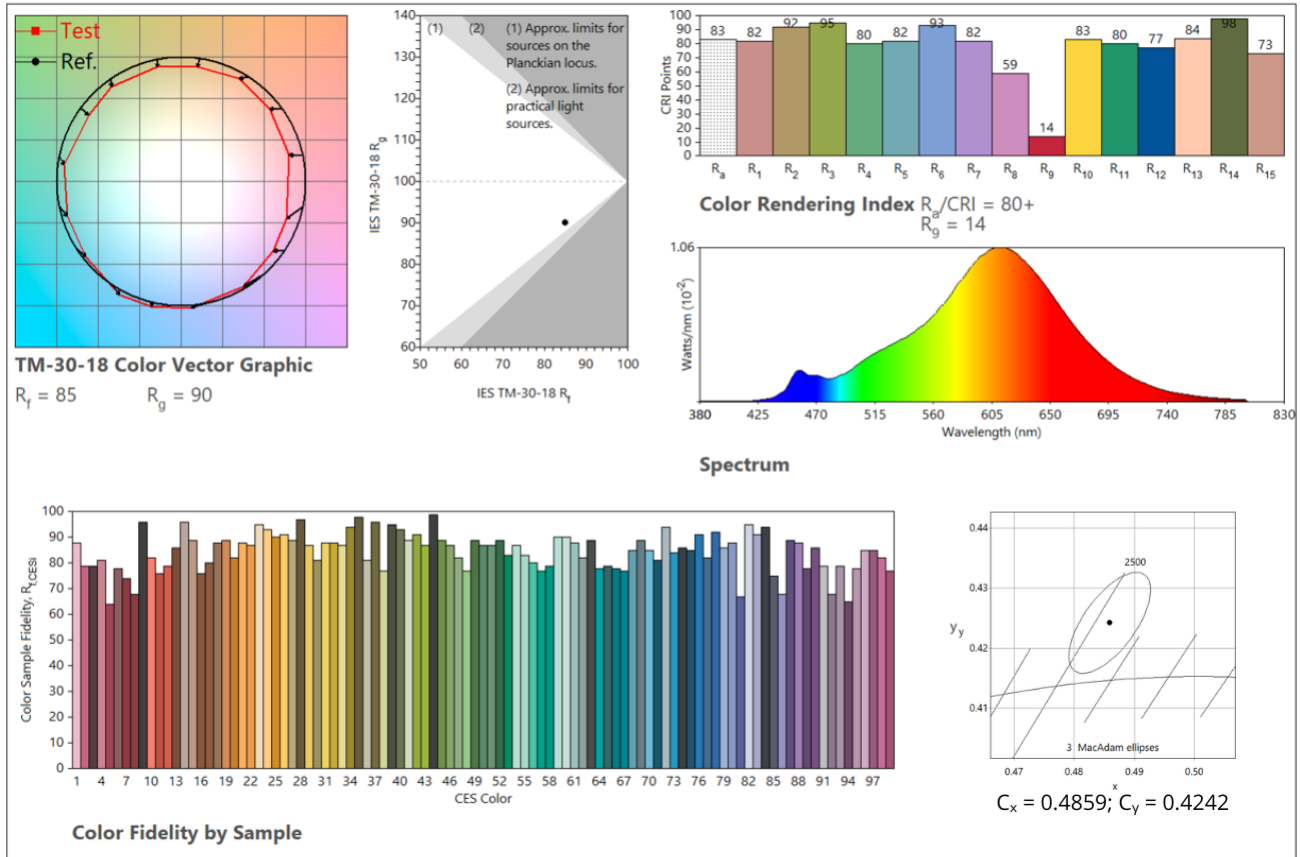
### LFD600S-G2-930-06



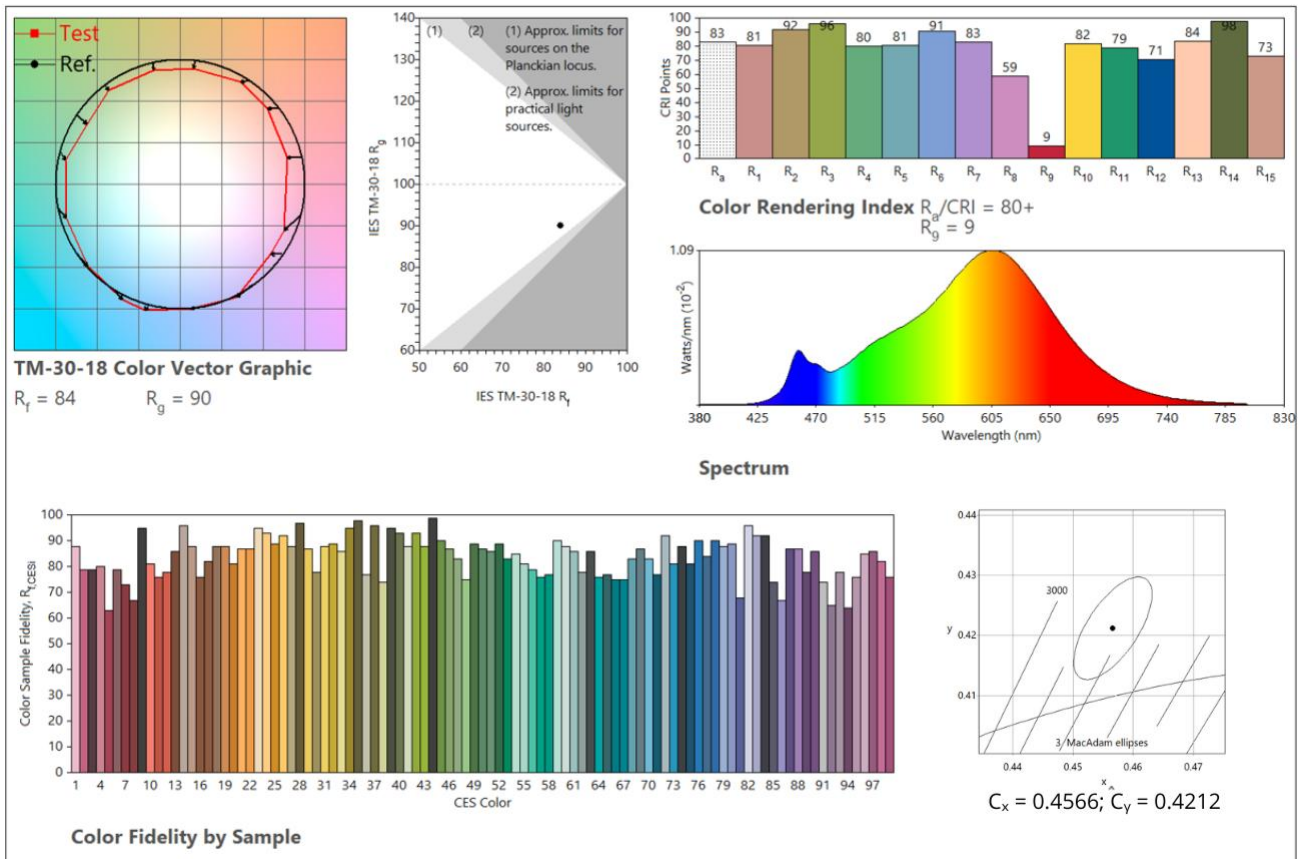
### LFD600S-G2-940-06



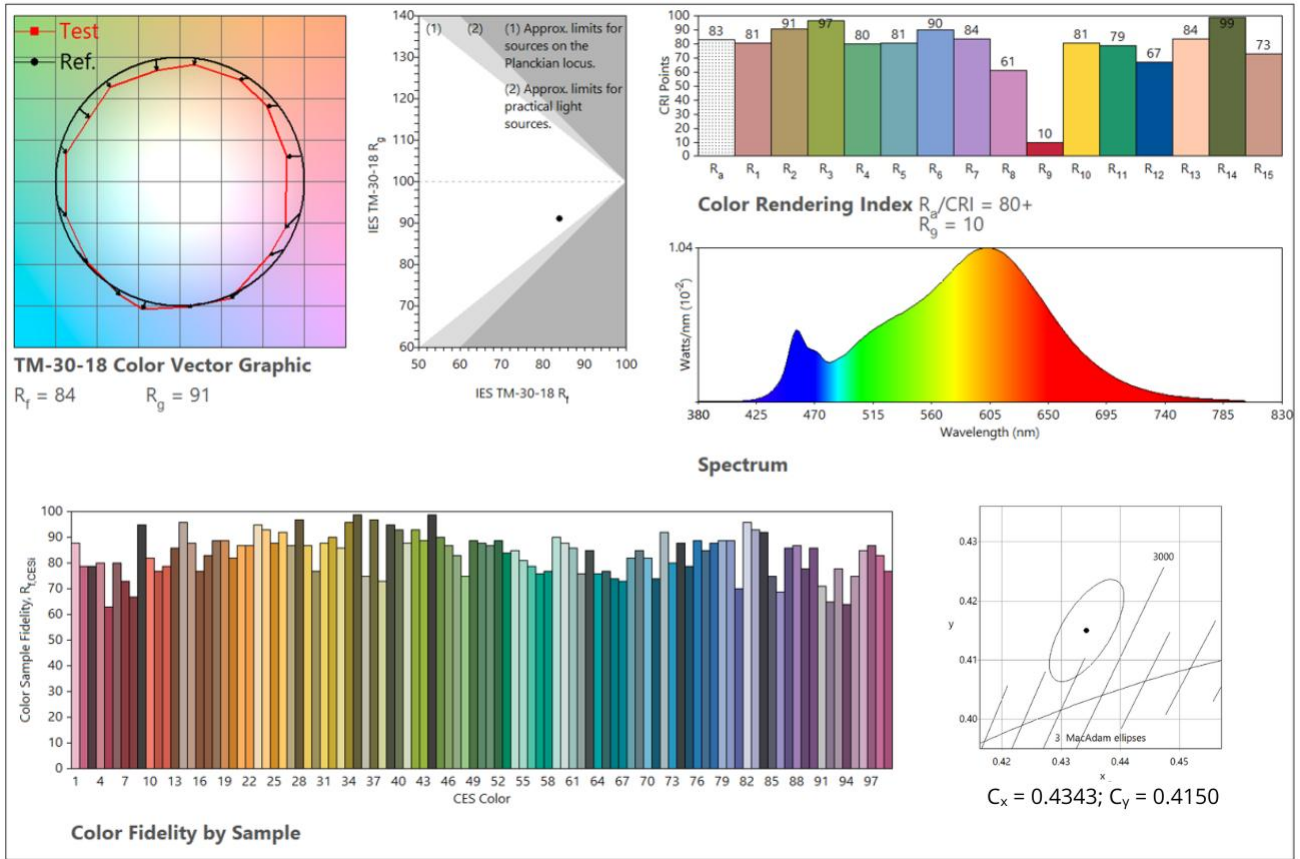
### LFD1000S-G2-824-04



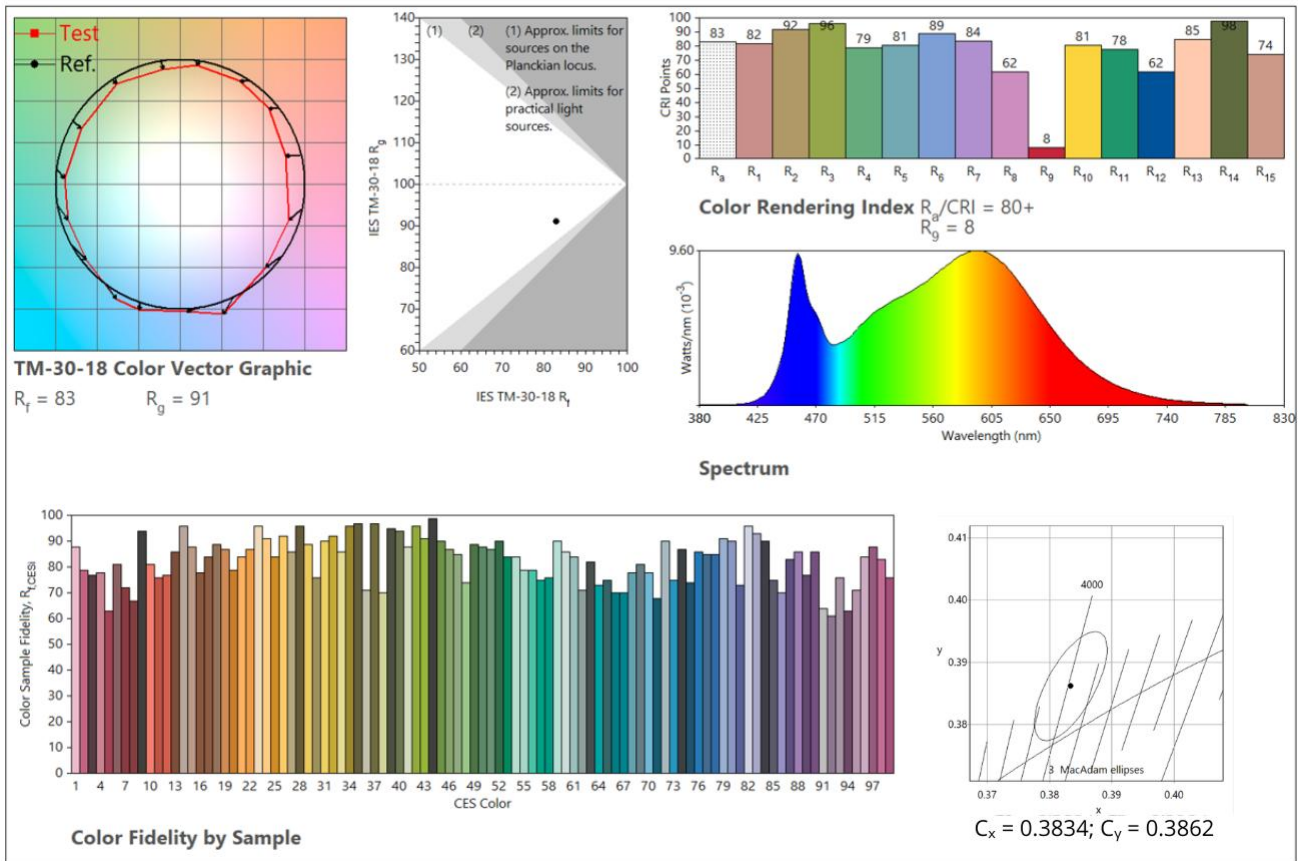
### LFD1000S-G2-827-04



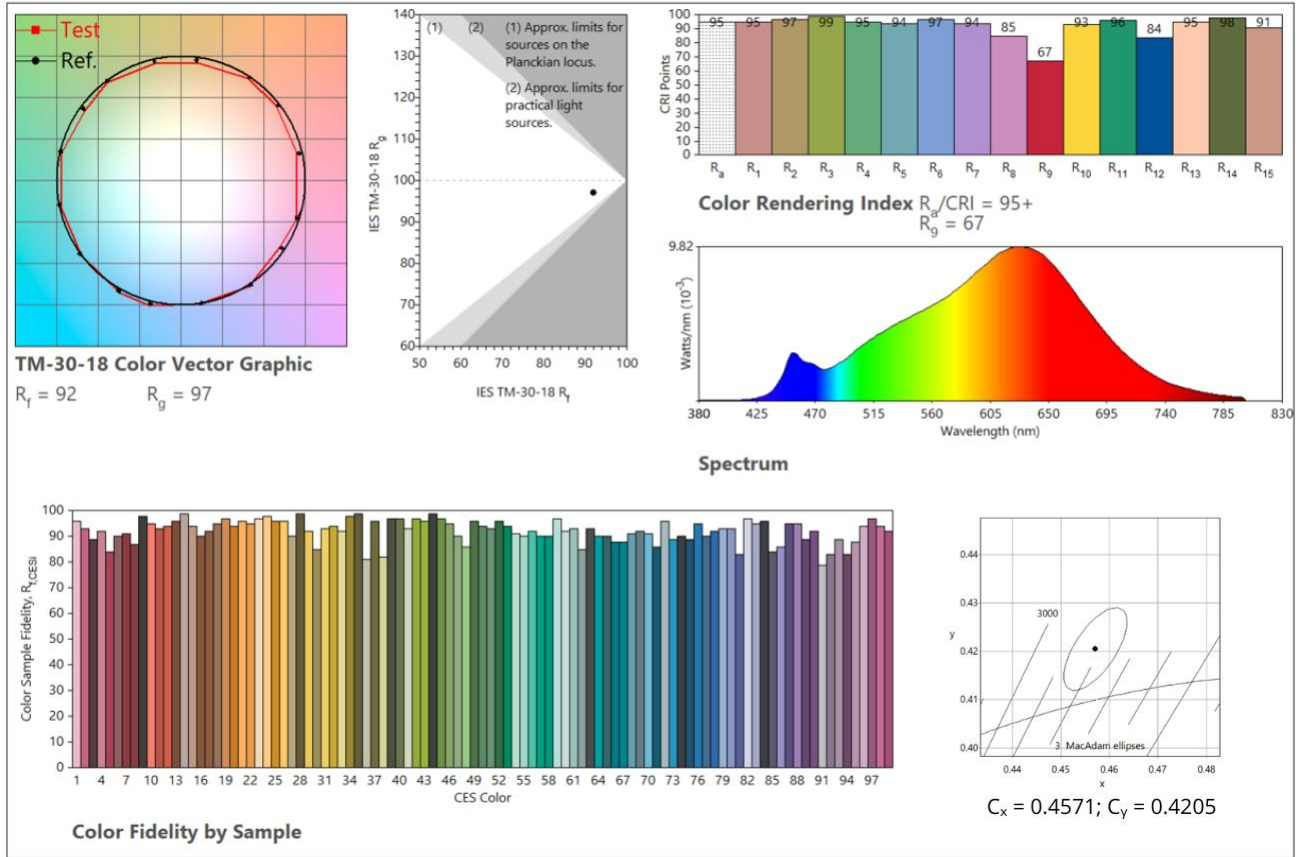
### LFD1000S-G2-830-04



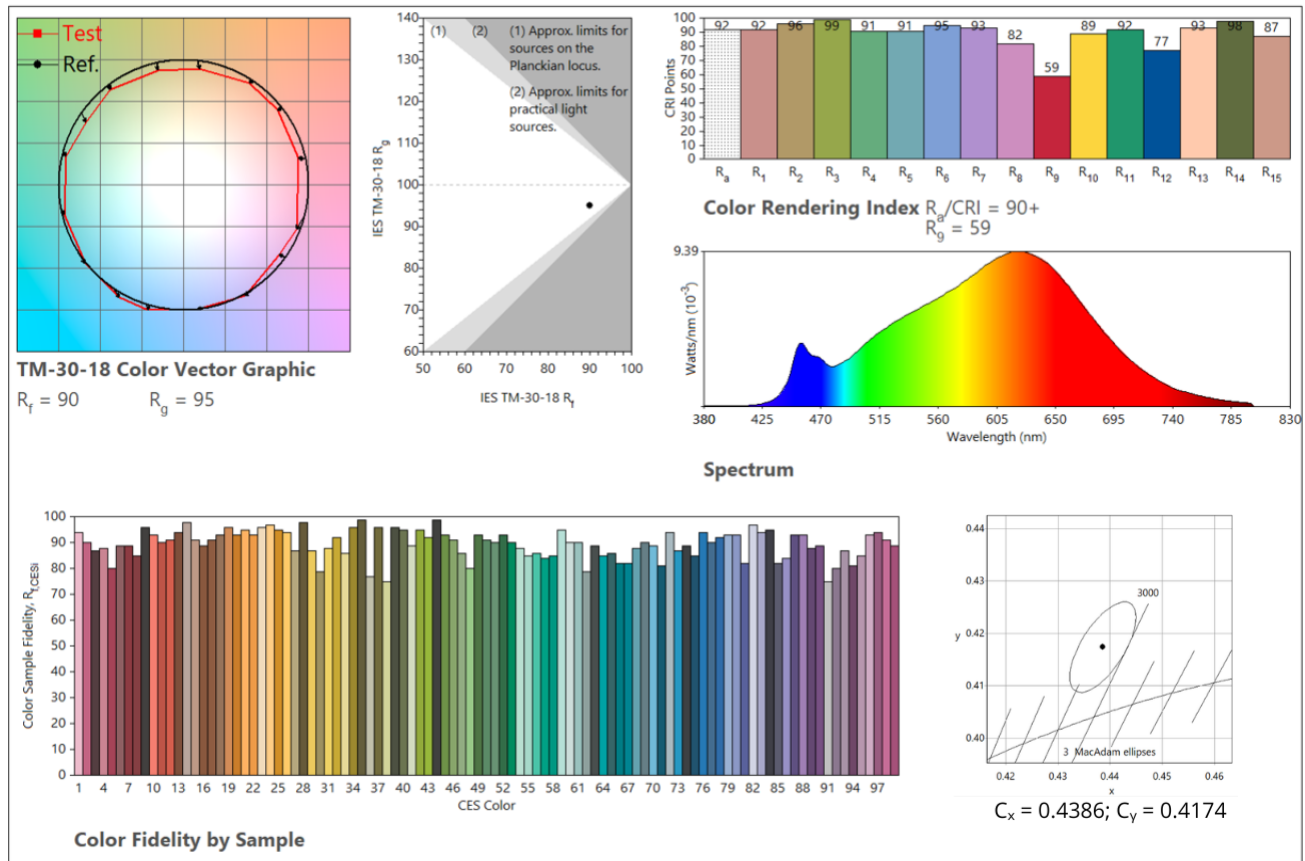
### LFD1000S-G2-840-04



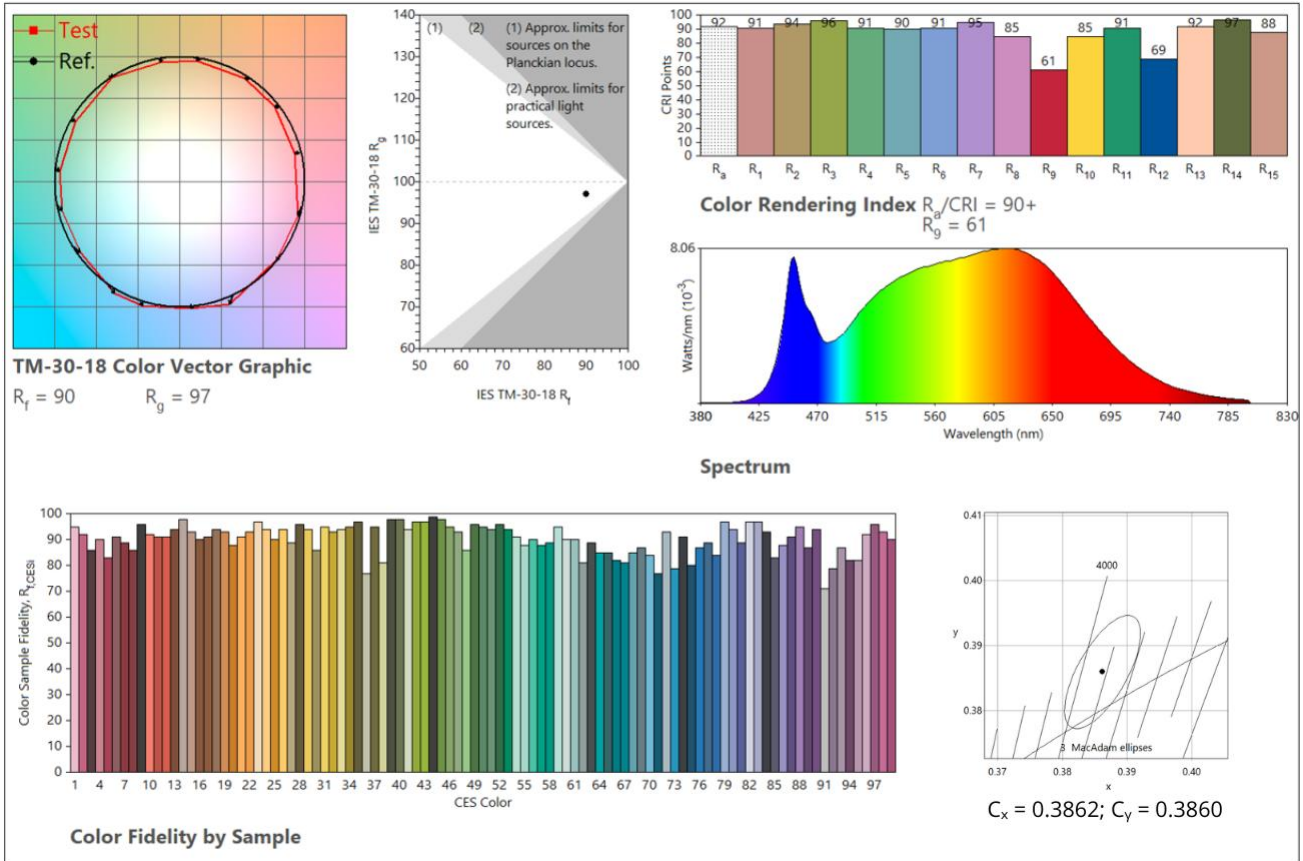
LFD1000S-G2-927-04



LFD1000S-G2-930-04

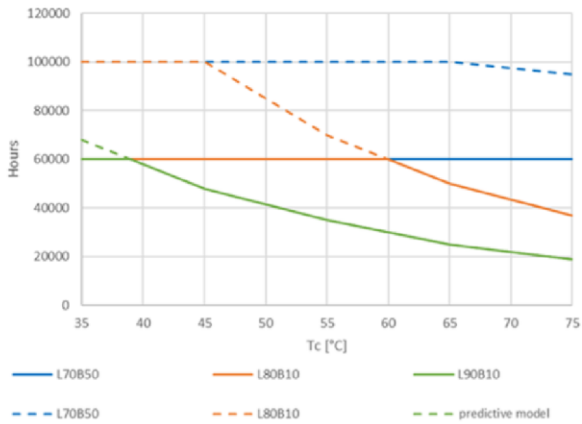


### LFD1000S-G2-940-04

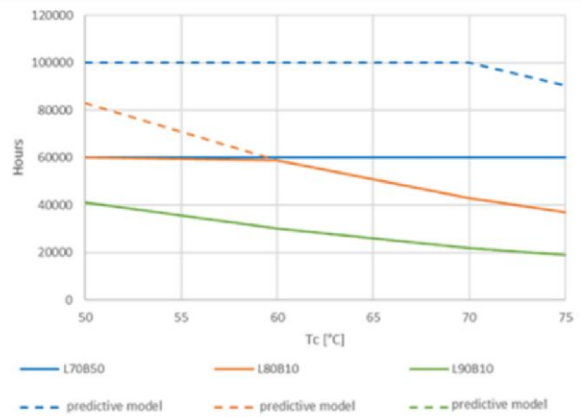


**Lifetime**

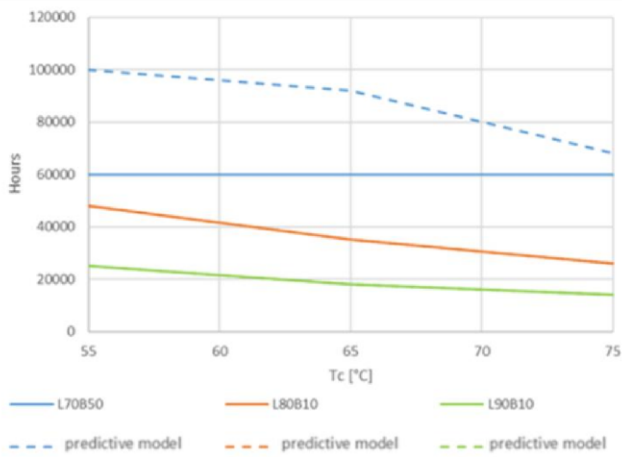
**LFD400S**



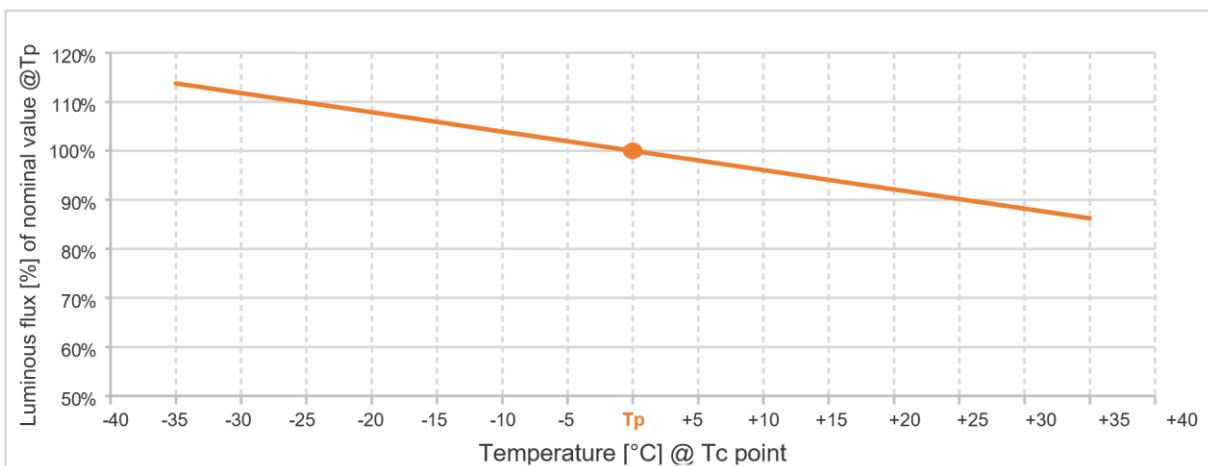
**LFD600S**



**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.

**Packaging content**

Product description	Product code	Dimensions (length x width x height)	EAN10 Package content
LFD400S-G2-824-10	6937186136725	519 x 167 x 525 mm	1x LED strip with connector
LFD400S-G2-827-10	6937186136749	519 x 167 x 525 mm	1x LED strip with connector
LFD400S-G2-830-10	6937186136763	519 x 167 x 525 mm	1x LED strip with connector
LFD400S-G2-840-10	6937186136787	519 x 167 x 525 mm	1x LED strip with connector
LFD400S-G2-924-10	6937186136800	519 x 167 x 525 mm	1x LED strip with connector
LFD400S-G2-927-10	6937186136824	519 x 167 x 525 mm	1x LED strip with connector
LFD400S-G2-930-10	6937186136848	519 x 167 x 525 mm	1x LED strip with connector
LFD400S-G2-940-10	6937186136862	519 x 167 x 525 mm	1x LED strip with connector
LFD600S-G2-824-06	6937186199232	420 x 232 x 430 mm	1x LED strip with connector
LFD600S-G2-827-06	6937186137043	420 x 232 x 430 mm	1x LED strip with connector
LFD600S-G2-830-06	6937186137067	420 x 232 x 430 mm	1x LED strip with connector
LFD600S-G2-840-06	6937186137104	420 x 232 x 430 mm	1x LED strip with connector
LFD600S-G2-924-06	6937186137128	420 x 232 x 430 mm	1x LED strip with connector
LFD600S-G2-927-06	6937186137142	420 x 232 x 430 mm	1x LED strip with connector
LFD600S-G2-930-06	6937186137166	420 x 232 x 430 mm	1x LED strip with connector
LFD600S-G2-940-06	6937186137180	420 x 232 x 430 mm	1x LED strip with connector
LFD1000S-G2-824-04	6937186137340	420 x 232 x 430 mm	1x LED strip with connector
LFD1000S-G2-827-04	6937186137364	420 x 232 x 430 mm	1x LED strip with connector
LFD1000S-G2-830-04	6937186137388	420 x 232 x 430 mm	1x LED strip with connector
LFD1000S-G2-840-04	6937186137401	420 x 232 x 430 mm	1x LED strip with connector
LFD1000S-G2-927-04	6937186137425	420 x 232 x 430 mm	1x LED strip with connector
LFD1000S-G2-930-04	6937186137449	420 x 232 x 430 mm	1x LED strip with connector
LFD1000S-G2-940-04	6937186137463	420 x 232 x 430 mm	1x LED strip with connector

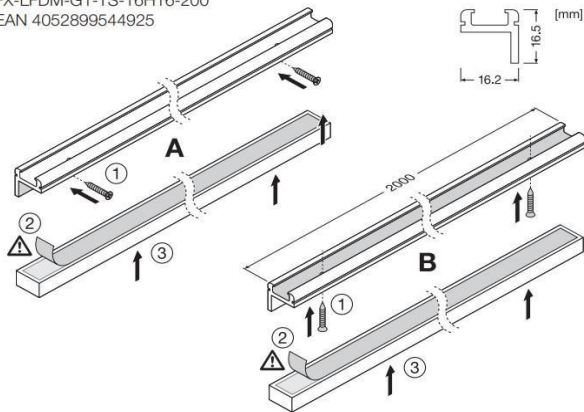
Optional accessories

Product Type	Product description	Product code (EAN10)	EAN10 Package content
 Middle power feeder	FX-DCS-G1-CM2PF-IP67-0500-X5	6937186139733	5x Feeder
 Strip to strip middle jumper	FX-DCS-G1-CM2PJ-IP67-0190-X5	6937186139757	5x Jumper
 Feeder kit with endcaps & glue	FX-DCS-G1-CM2PF-IP67-SIDEKIT5	6937186139917	5x Feeder, 10x Endcaps, 1x Glue (5g)
 Jumper kit with endcaps & glue	FX-DCS-G1-CM2PJIP67-SIDEKIT5	6937186139931	5x Jumper, 10x Endcaps, 1x Glue (5g)
 Endcaps & glue	FX-DCS-G1-ECS-KIT20	6937186139870	20x Endcaps, 2x Glue (5g)
 Silicone glue 25 g	FX-DCS-G1-GL-25	6937186139818	1x Glue (25g)
 Mounting bracket	FX-QMS-G1-BMZI-DIV1	6937186148483	40x Mounting Bracket
 Mounting bracket	FX-LFDM-G1-BS-12H13	6937186126603	50x Mounting Bracket
 Mounting bracket with additional wing	FX-LFDM-G1-BSL-12H13E9	6937186126542	50x Mounting Bracket
 Aluminum profile Side	FX-LFDM-G1-TS-16H16-200	6937186126665	5x Profile
 Steel profile bendable Side	FX-LFDM-BEND-1000 KIT 3 PCS	6937186126689	3x Profile

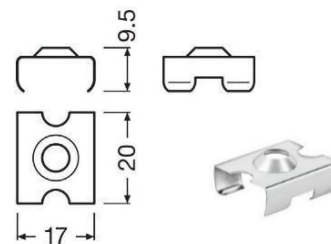
LFD400 / LFD600 / LFD1000 SIDE with optional accessories

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

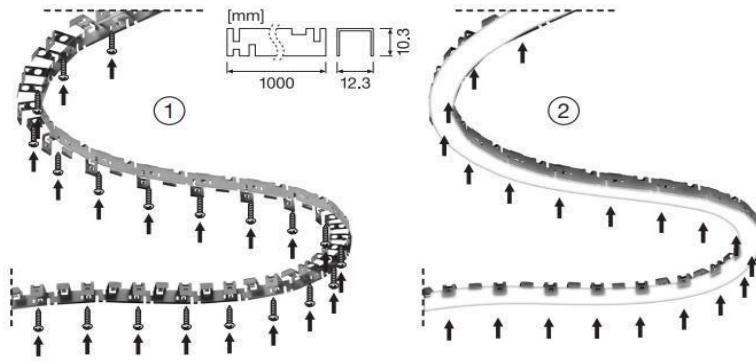
FX-LFDM-G1-TS-16H16-200  
EAN 4052899544925



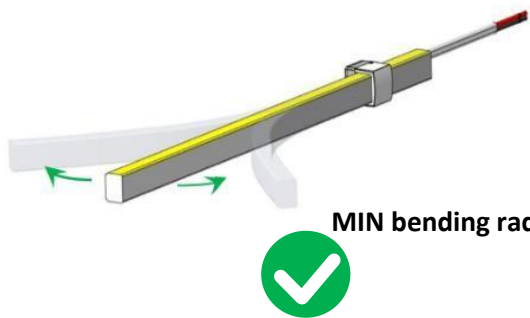
FX-QMS-G1-BMZI-DIV1



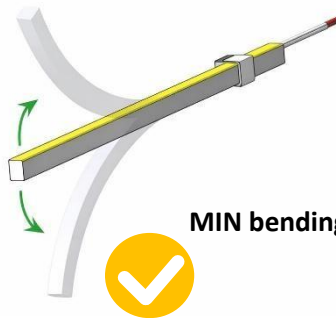
FX-LFDM-BEND-1000



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





MIN bending radius:10cm



MIN bending radius:80cm

**Ambient temperature – operating considerations**

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 Tc of LED strip is the maximum allowed.

Profile Type	Product description	Product code (EAN)	MAX Ambient Temperature °C		
			LFD400S	LFD600S	LFD1000S
	FX-LFDM -G1-TS-16H16-200	6937186126665	55	40	38
	FX-LFDM-BEND-1000 KIT 3 PCS	6937186126689	55	45	35
Without any profile			55	45	35

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

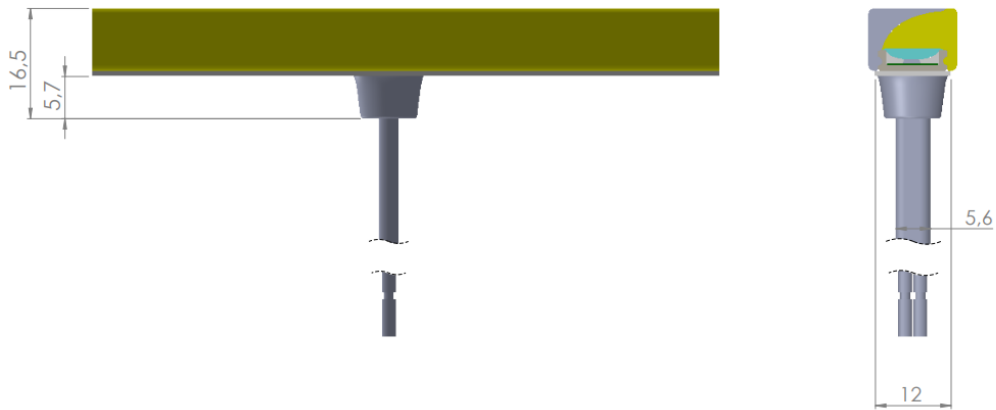
## Speaking code generator

You can generate your own LINEARlight FLEX DIFFUSE speaking code and send it to your INVENTRONICS contact for detailed information by using the dedicated generator on INVENTRONICS website: <https://design.inventronicsglobal.com/project/dotless-white/linearlight-flex-diffuse-protect-side#speaking-code>

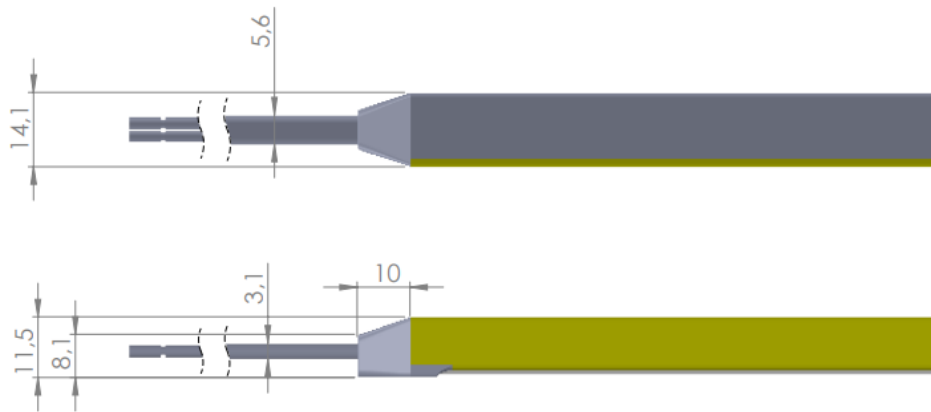
	LFD	800	T	924	10	C	T	L1	50	F	G2.1
<b>Product family</b> LINEARlight Flex DIFFUSE.....	LFD										
<b>Luminous flux</b> 400 lm/m..... 600 lm/m..... 800 lm/m..... 1000 lm/m..... 1300 lm/m.....		800									
<b>Model</b> Top..... Side.....			T								
<b>Light tone</b> CRI>80, 2400K..... CRI>80, 2700K..... CRI>80, 3000K..... CRI>80, 3500K..... CRI>80, 4000K..... CRI>80, 6500K.....  CRI>90, 2400K..... CRI>90, 2700K..... CRI>90, 3000K..... CRI>90, 3500K..... CRI>90, 4000K..... CRI>90, 6500K.....				924							
<b>Length</b> From 10 to 1000 cm					10						
<b>Connection</b> Connector..... Bottom cable..... End cable.....						C					
<b>Adhesive tape</b> Tape..... No tape.....							T				
<b>Wiring</b> One end..... Both ends.....								L1			
<b>Wire length</b> 50-500 cm									50		
<b>Wire ends</b> Flying leads.....										F	
<b>Generation</b> .....											G2.1

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

**CONNECTION – Bottom cable**



**CONNECTION – End cable**



**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>