

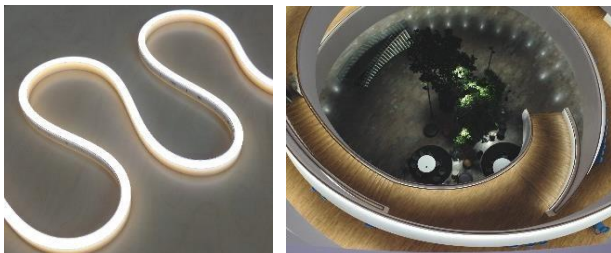
Light is OSRAM

OSRAM

LINEARlight FLEX® DIFFUSE Side

Homogeneous and uniform dot free light lines

LFD400S / LFD600S / LFD1000S



Features & Benefits

- Diffuse light lines without visible spots
- Luminous flux up to 1000 lm/m
- IP66 & IP67 protection with high performance silicone
- CRI 80+ and 90+ versions
- Color uniformity ≤ 2 SDCM*
- Lifetime up to 60.000 h L90B10 at Tp (LFD400 White)
- 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

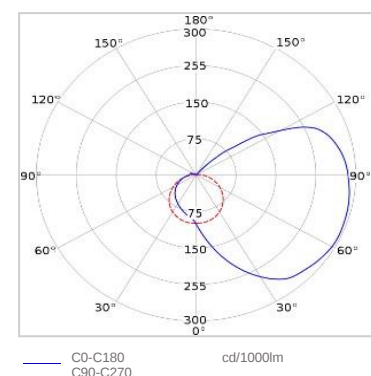
Standards

CE, 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

Main data

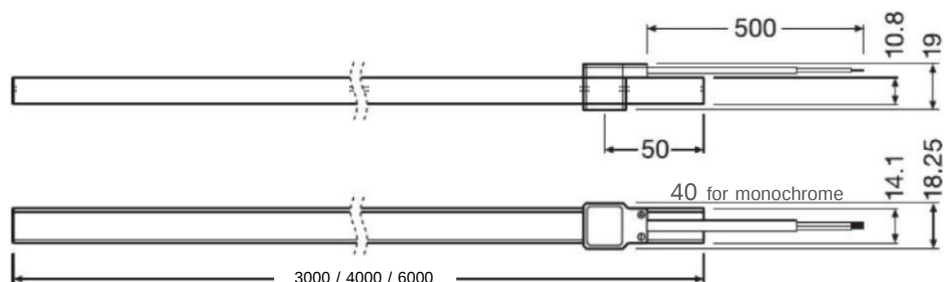
Operating voltage	24.0 V (23.0 ... 25.0 V)
Accidental reverse voltage protection up to	25.0 V
Product length	Up to 6000 mm
Product cross section (excl. connector)	(W) 10.8 mm x (H) 14.1 mm
Can be cut in field each	50 mm
Connector factory installed with flying leads	500 mm
Lifetime L80B10 @ Tp	60.000 h
Temperature range in operation @ Tc point	-30...+75 °C
Ambient Temperature with profile **	-30...+50 °C
Storage Temperature	-30...+75 °C
Installation by provided adhesive tape or optional clips / channels	



Beam Angle 120°

Mechanical data

LFD400 / LFD600 / LFD1000 SIDE



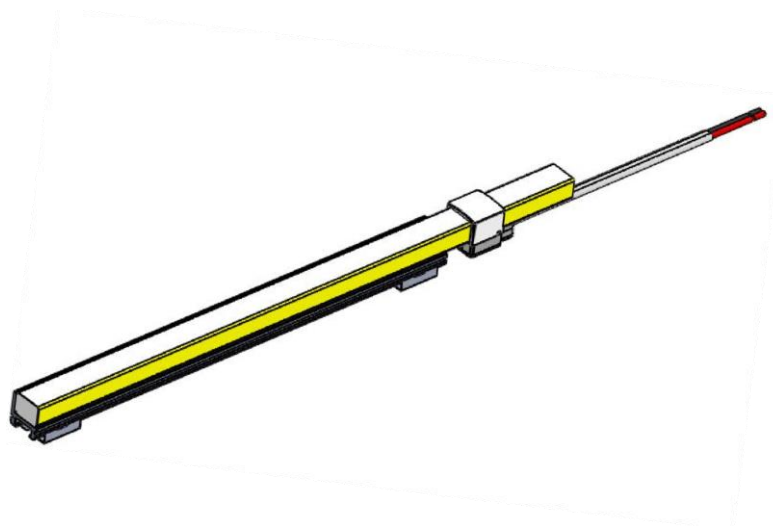
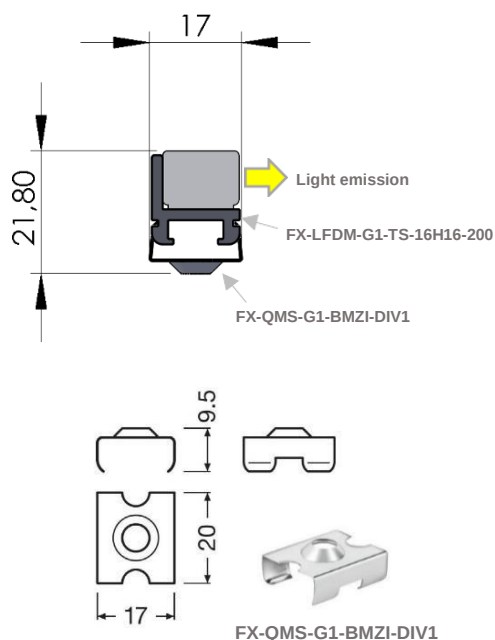
Min. bending radius = 100 mm
All dimensions in: mm

Max. operable length = product length
(6000 mm)

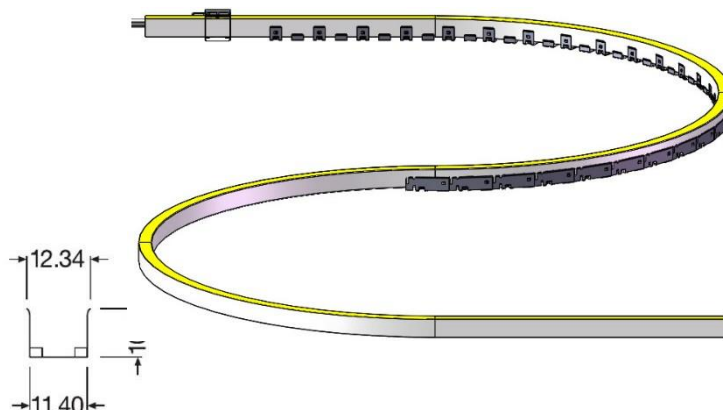
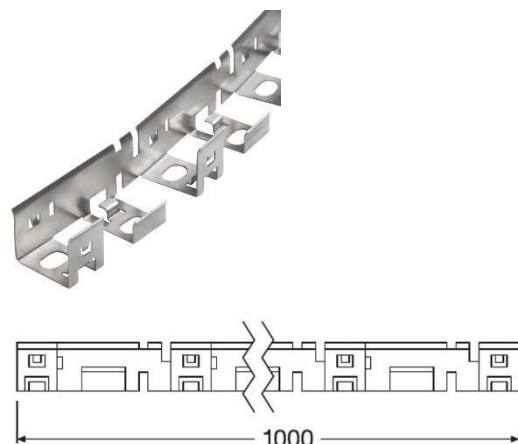
LFD400 / LFD600 / LFD1000 SIDE with optional accessories

Aluminum profile Side: FX-LFDM-G1-TS-16H16-200, 2-meters length

Mounting bracket: FX-QMS-G1-BMZI-DIV1

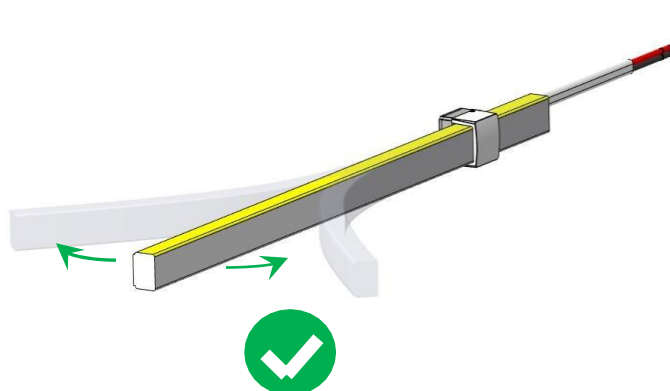


Steel profile bendable Side: FX-LFDM-BEND-1000, 1-meter length

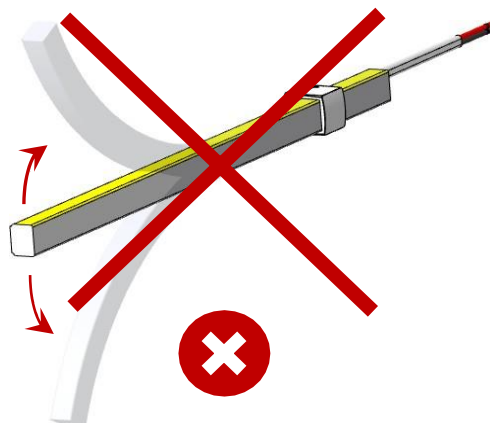


LFD400 / LFD600 / LFD1000 SIDE bending direction (yellow: light emitting surface)

Allowed:



NOT allowed:



Technical data

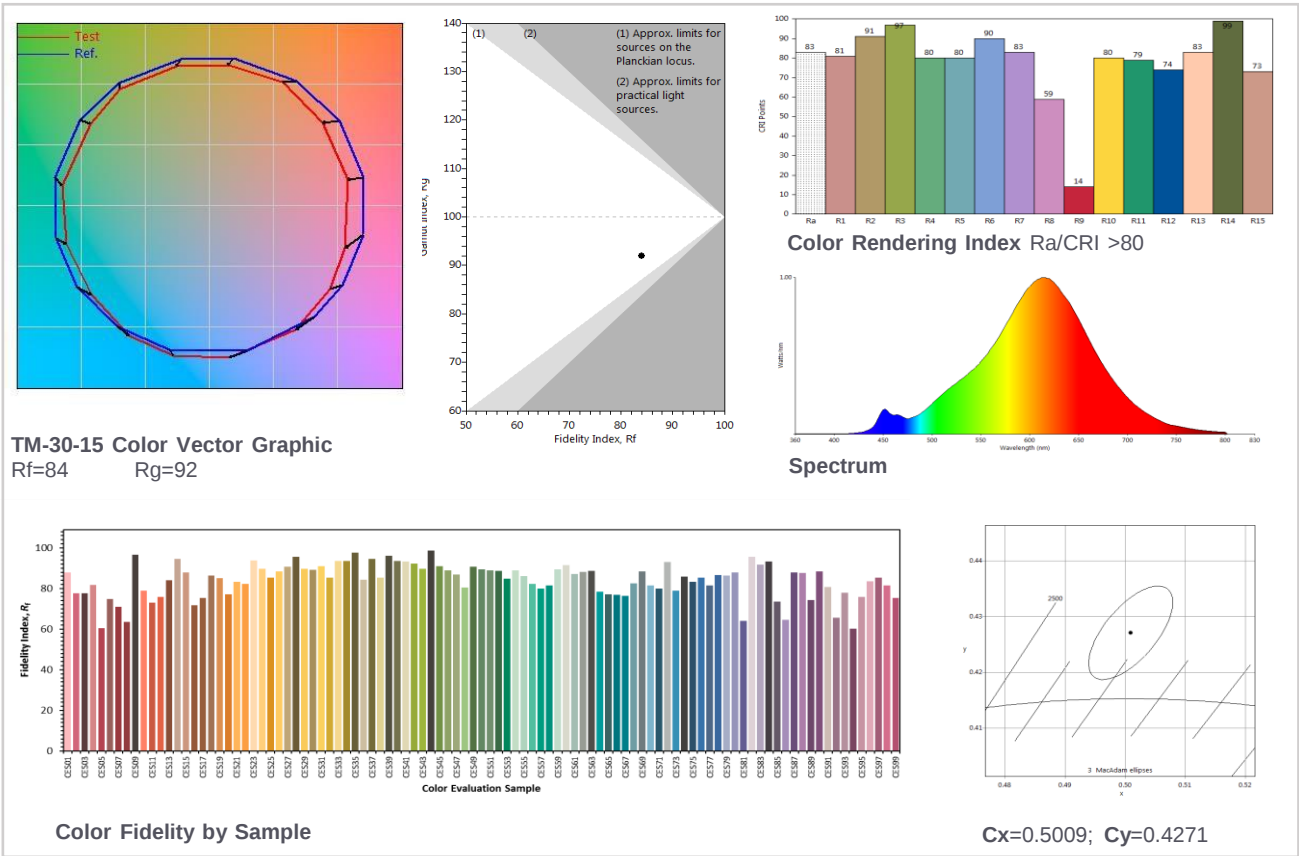
LFD400S White	Nominal CCT See color output data	CRI	Luminous Flux per meter lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LFD400S-G1-824-06	● 2400 K	>80	430	7.2	60	35	6
LFD400S-G1-827-06	● 2700 K	>80	430	7.2	60	35	6
LFD400S-G1-830-06	● 3000 K	>80	450	7.2	63	35	6
LFD400S-G1-835-06	● 3500 K	>80	450	7.2	63	35	6
LFD400S-G1-840-06	○ 4000 K	>80	450	7.2	63	35	6
LFD400S-G1-850-06	● 5000 K	>80	430	7.2	60	35	6
LFD400S-G1-865-06	● 6500 K	>80	380	7.2	53	35	6
LFD400S-G1-924-06	● 2400 K	>90	340	7.2	47	35	6
LFD400S-G1-927-06	● 2700 K	>90	370	7.2	51	35	6
LFD400S-G1-930-06	● 3000 K	>90	370	7.2	51	35	6
LFD400S-G1-935-06	● 3500 K	>90	390	7.2	54	35	6
LFD400S-G1-940-06	○ 4000 K	>90	390	7.2	54	35	6
LFD400S-G1-965-06	● 6500 K	>90	380	7.2	53	35	6

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-G1-824-06	● 2400 K	>80	650	11.5	56	50	6
LFD600S-G1-827-06	● 2700 K	>80	650	11.5	56	50	6
LFD600S-G1-830-06	● 3000 K	>80	680	11.5	59	50	6
LFD600S-G1-835-06	● 3500 K	>80	680	11.5	59	50	6
LFD600S-G1-840-06	○ 4000 K	>80	680	11.5	59	50	6
LFD600S-G1-850-06	● 5000 K	>80	620	11.5	54	50	6
LFD600S-G1-865-06	● 6500 K	>80	560	11.5	49	50	6
LFD600S-G1-924-06	● 2400 K	>90	510	11.5	44	50	6
LFD600S-G1-927-06	● 2700 K	>90	550	11.5	48	50	6
LFD600S-G1-930-06	● 3000 K	>90	550	11.5	48	50	6
LFD600S-G1-935-06	● 3500 K	>90	570	11.5	49	50	6
LFD600S-G1-940-06	○ 4000 K	>90	570	11.5	49	50	6
LFD600S-G1-965-06	● 6500 K	>90	560	11.5	49	50	6

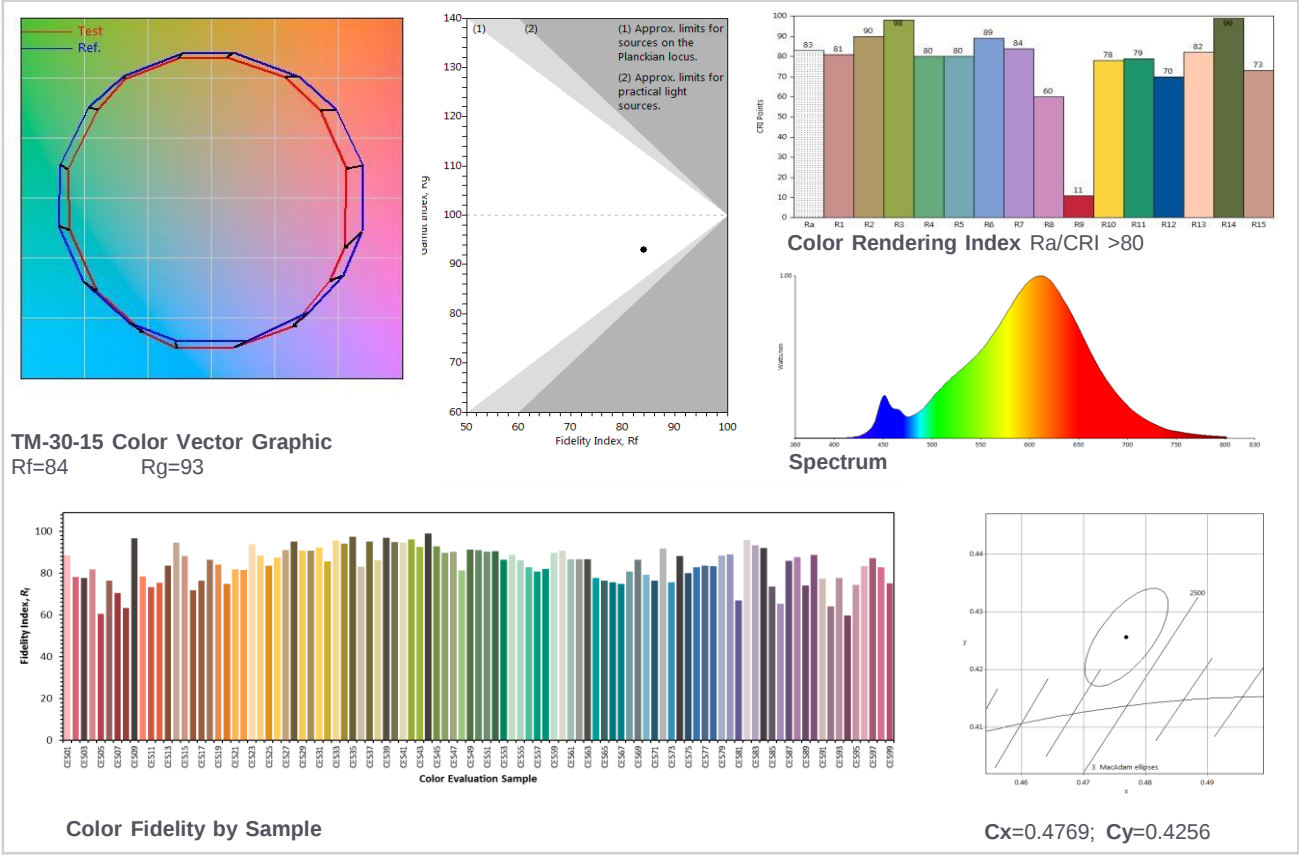
LFD1000S White		Nominal CCT See color output data	CRI	Luminous Flux per meter lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LFD1000S-G1-824-04		2400 K	>80	1050	17.8	59	55	4
LFD1000S-G1-827-04		2700 K	>80	1050	17.8	59	55	4
LFD1000S-G1-830-04		3000 K	>80	1100	17.8	62	55	4
LFD1000S-G1-835-04		3500 K	>80	1100	17.8	62	55	4
LFD1000S-G1-840-04		4000 K	>80	1100	17.8	62	55	4
LFD1000S-G1-865-04		6500 K	>80	1000	17.8	56	55	4
LFD1000S-G1-927-04		2700 K	>90	940	17.8	53	55	4
LFD1000S-G1-930-04		3000 K	>90	940	17.8	53	55	4
LFD1000S-G1-935-04		3500 K	>90	950	17.8	53	55	4
LFD1000S-G1-940-04		4000 K	>90	950	17.8	53	55	4
LFD1000S-G1-965-04		6500 K	>90	940	17.8	53	55	4

Color output data

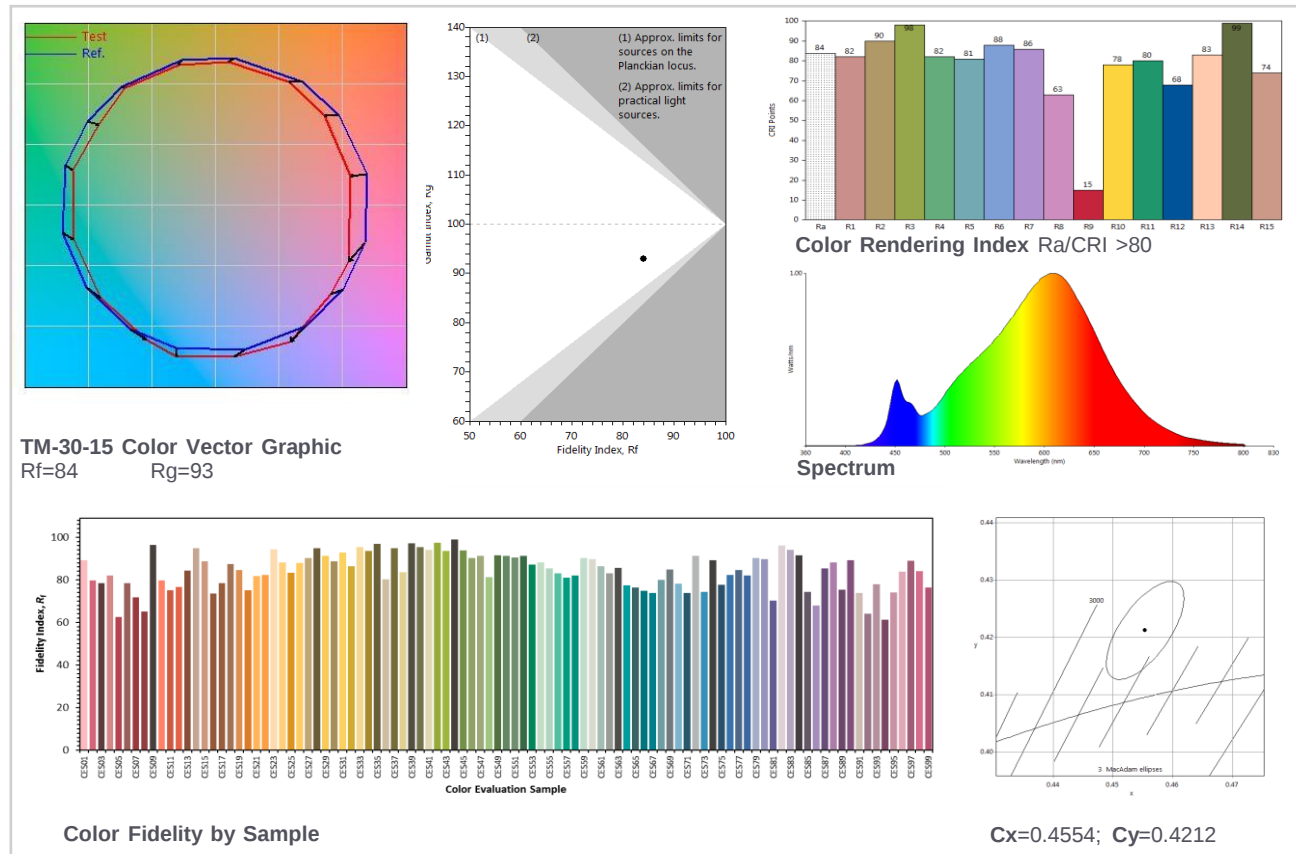
LFD400S-G1-824



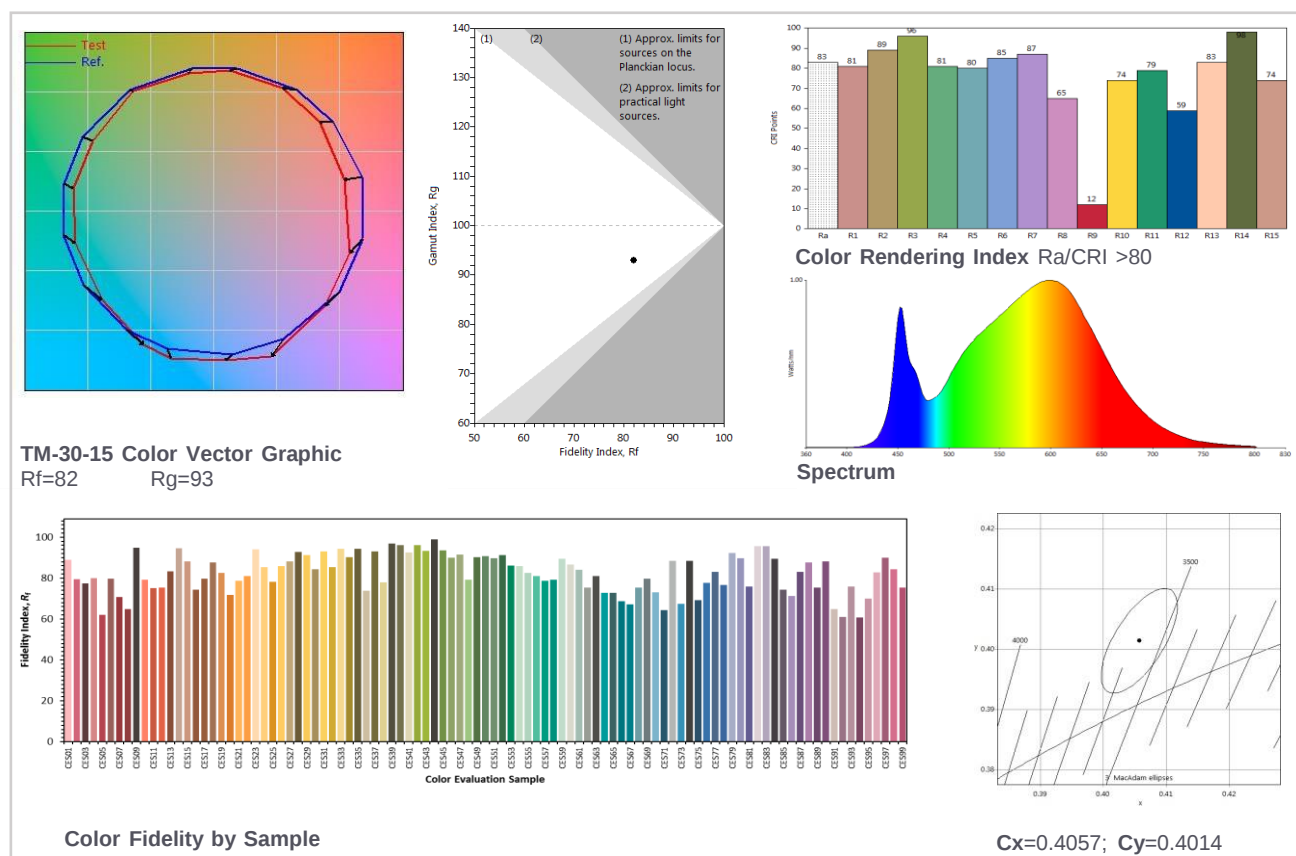
LFD400S-G1-827



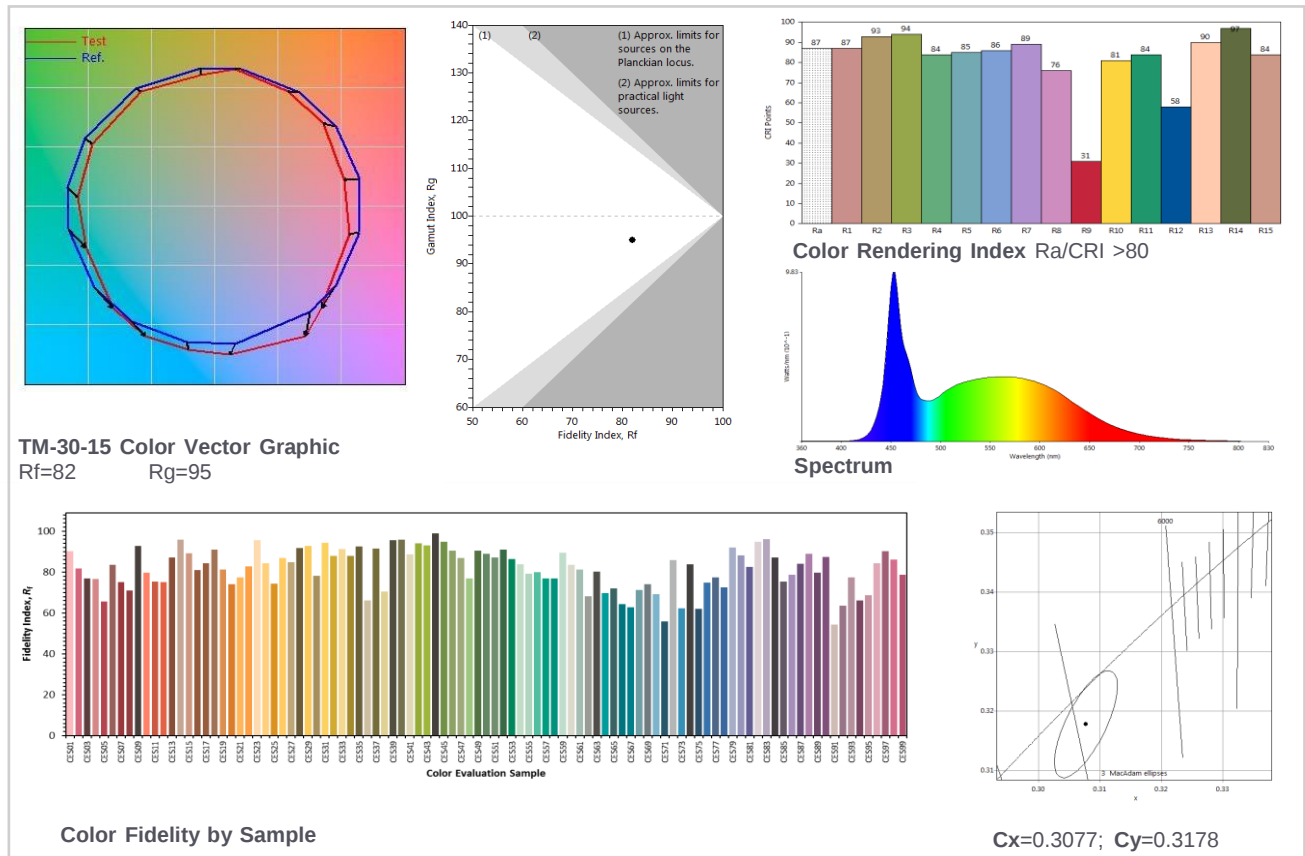
LFD400S-G1-830



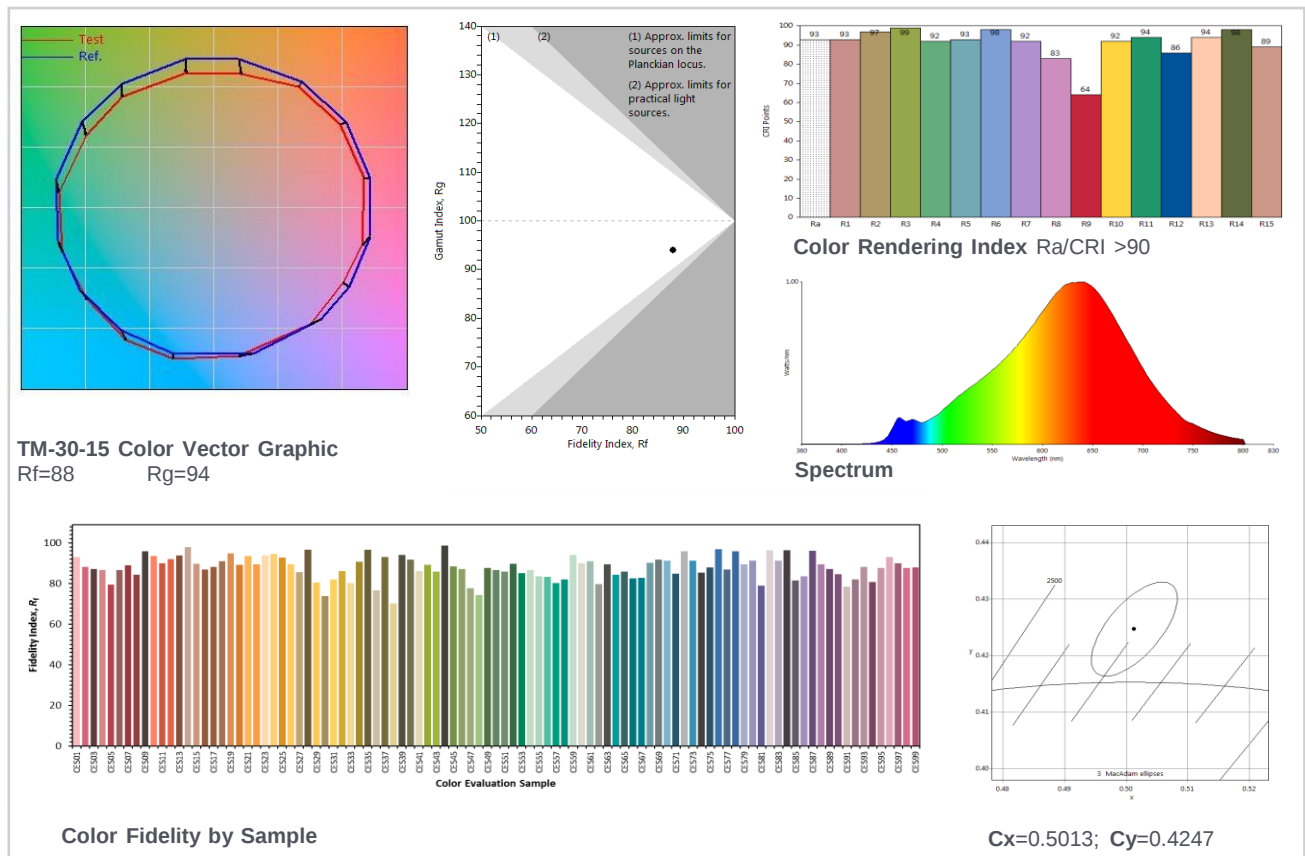
LFD400S-G1-835



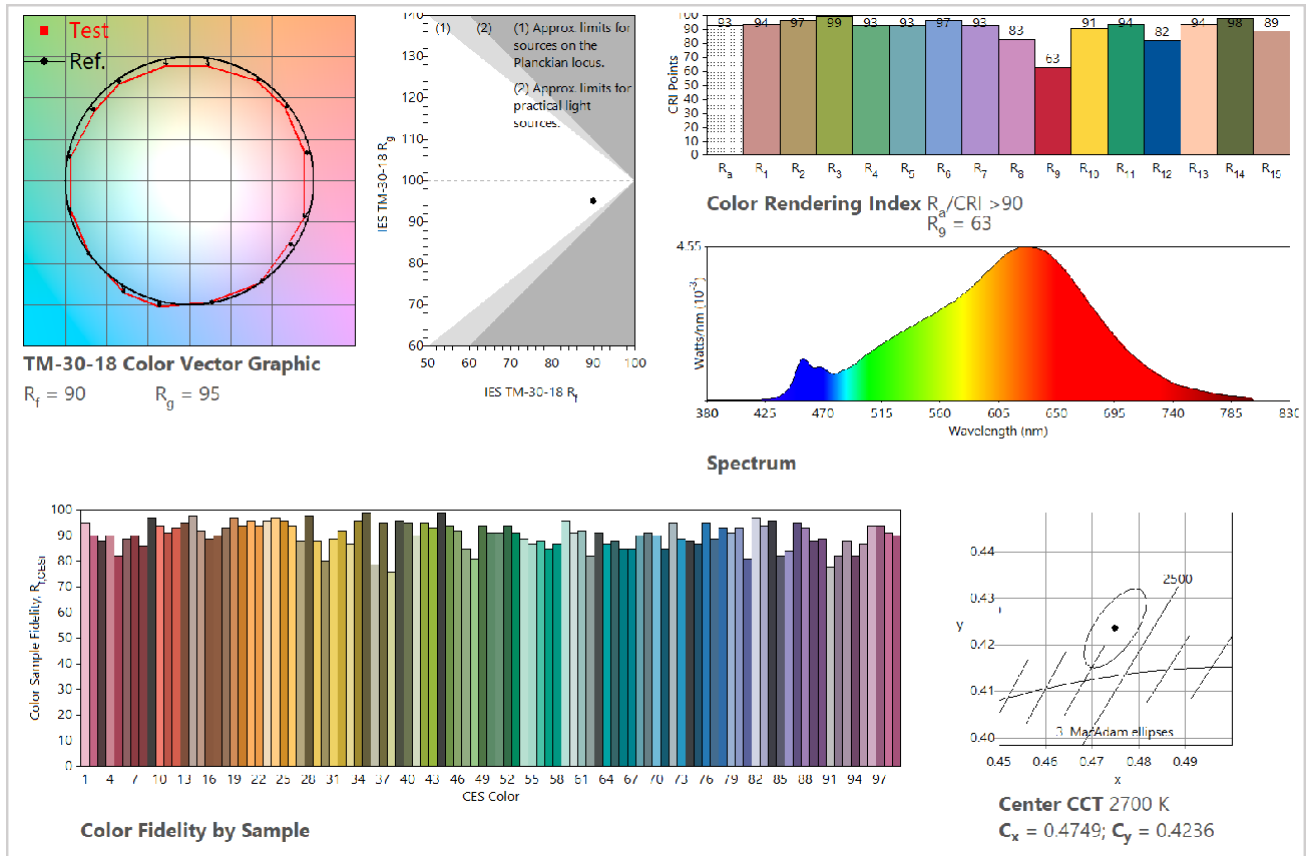
LFD400S-G1-865



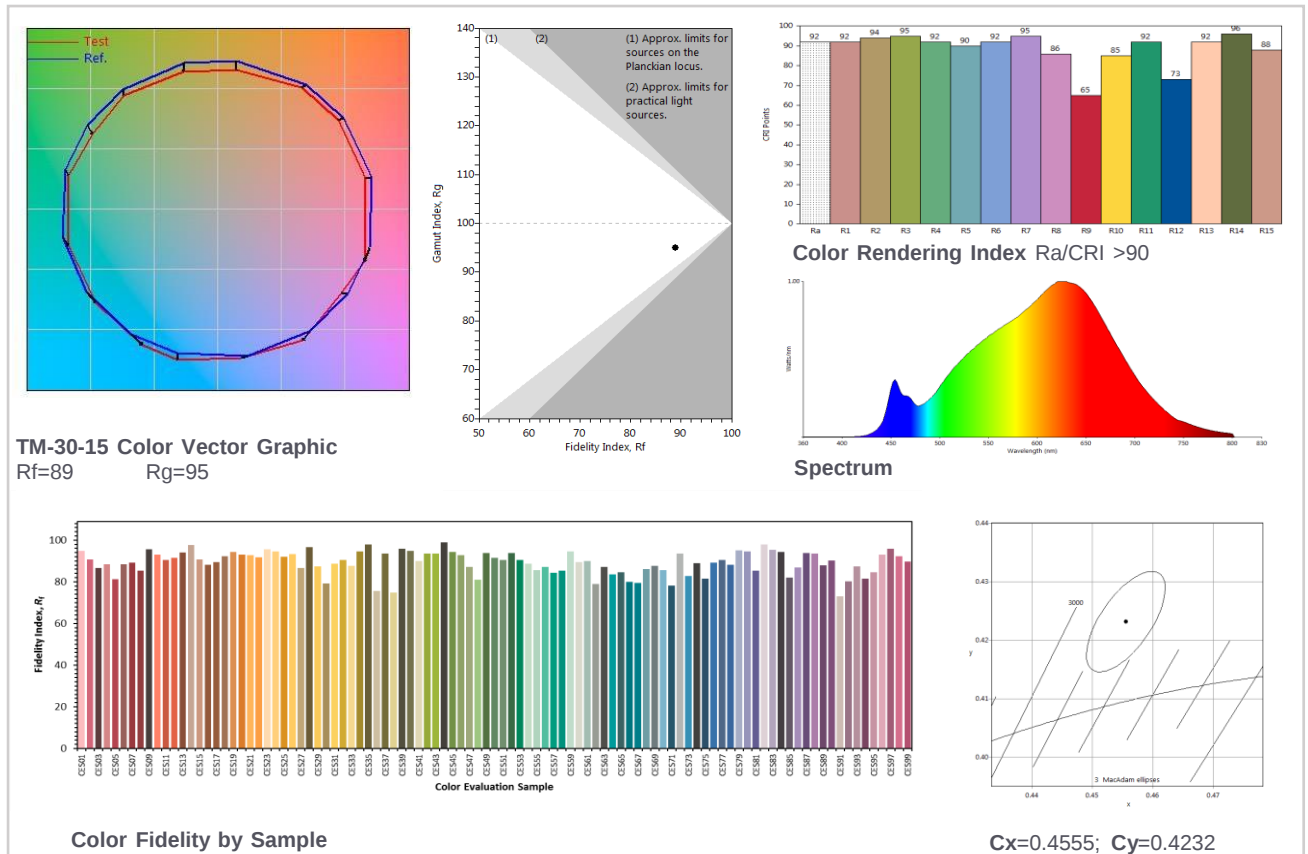
LFD400S-G1-924



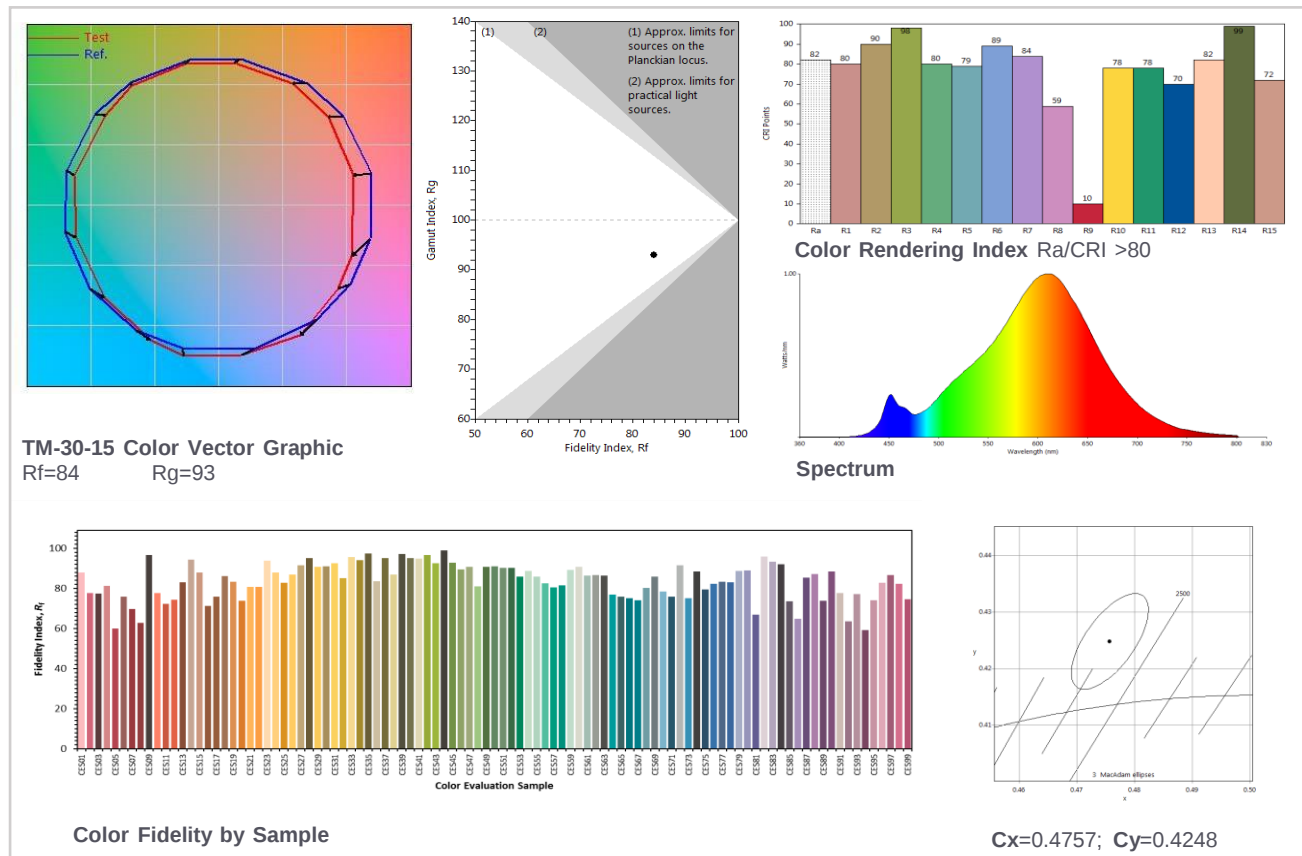
LFD400S-G1-927



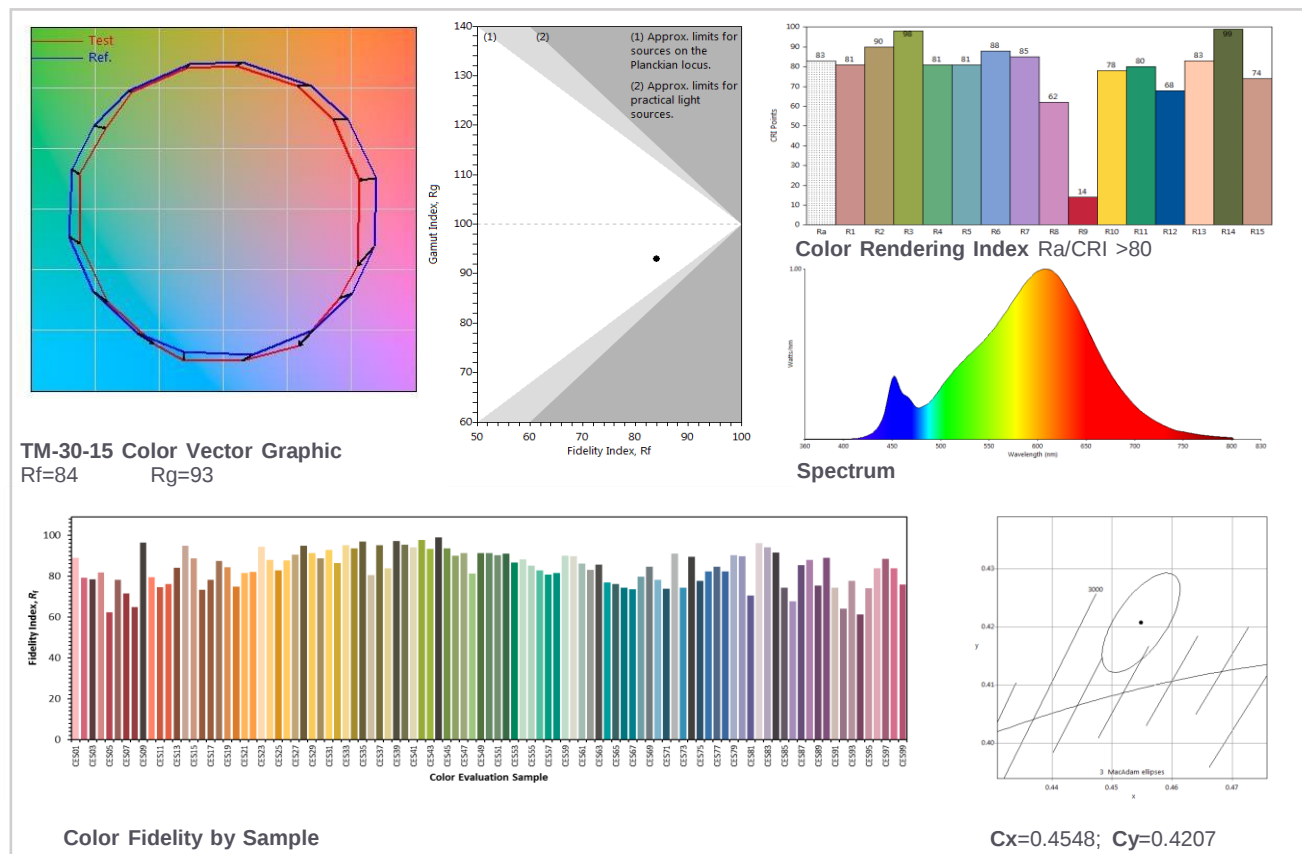
LFD400S-G1-930



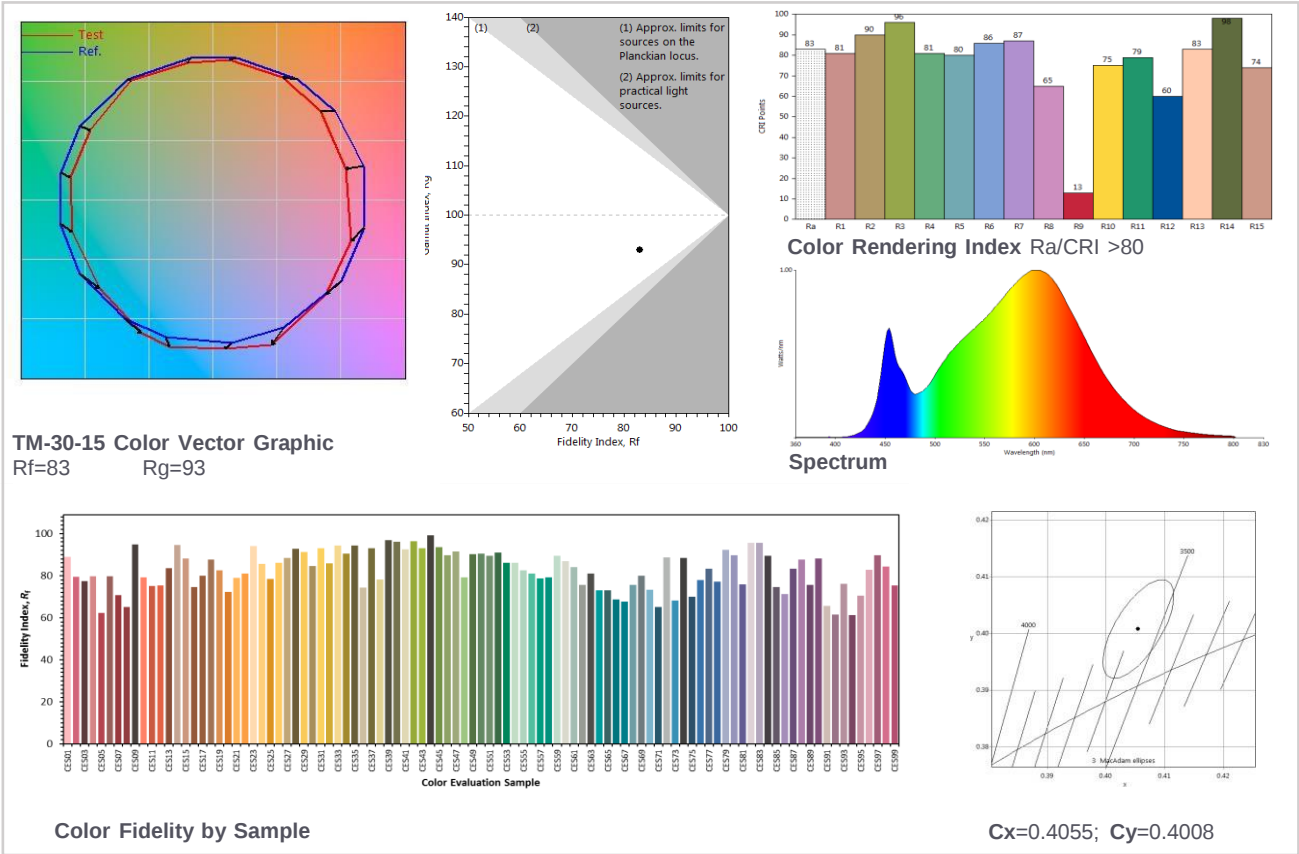
LFD600S-G1-827



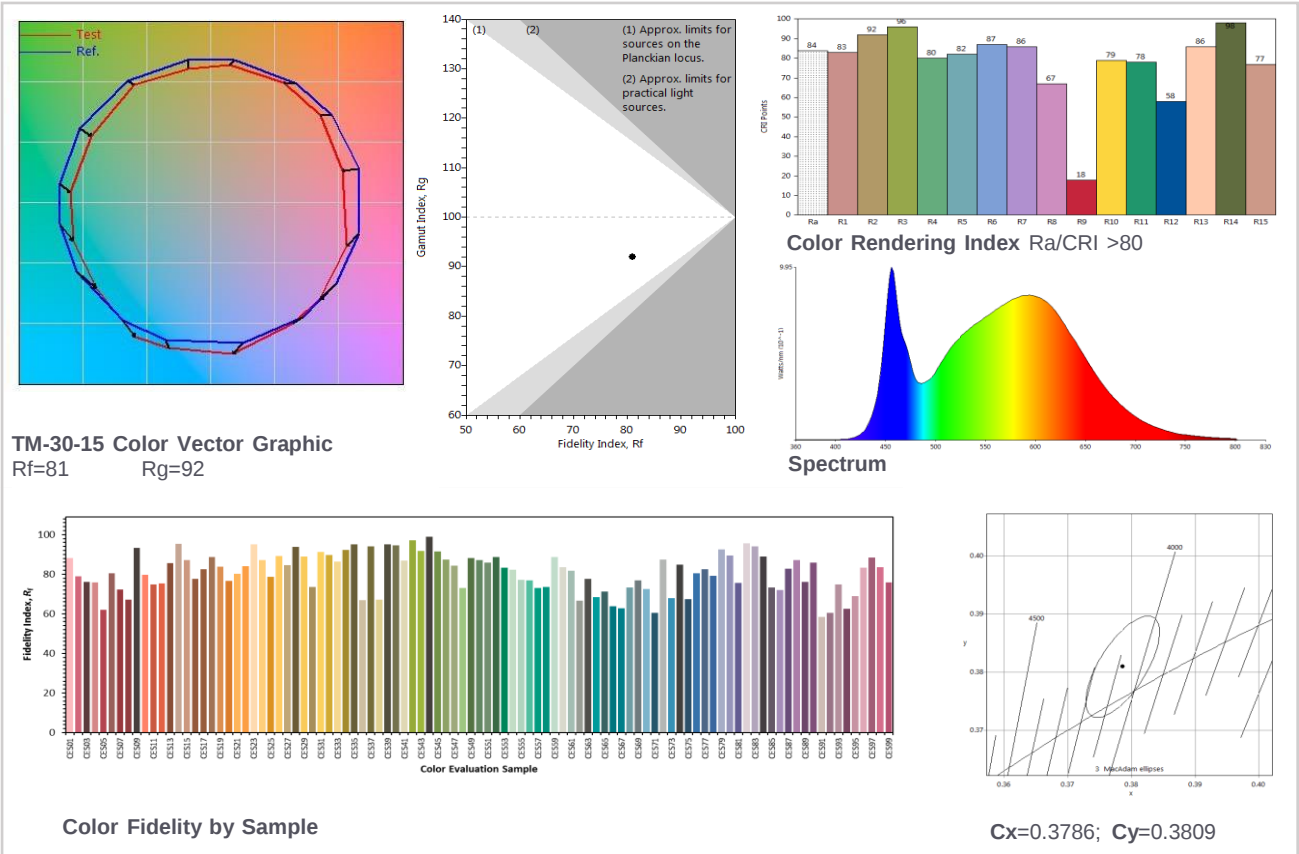
LFD600S-G1-830



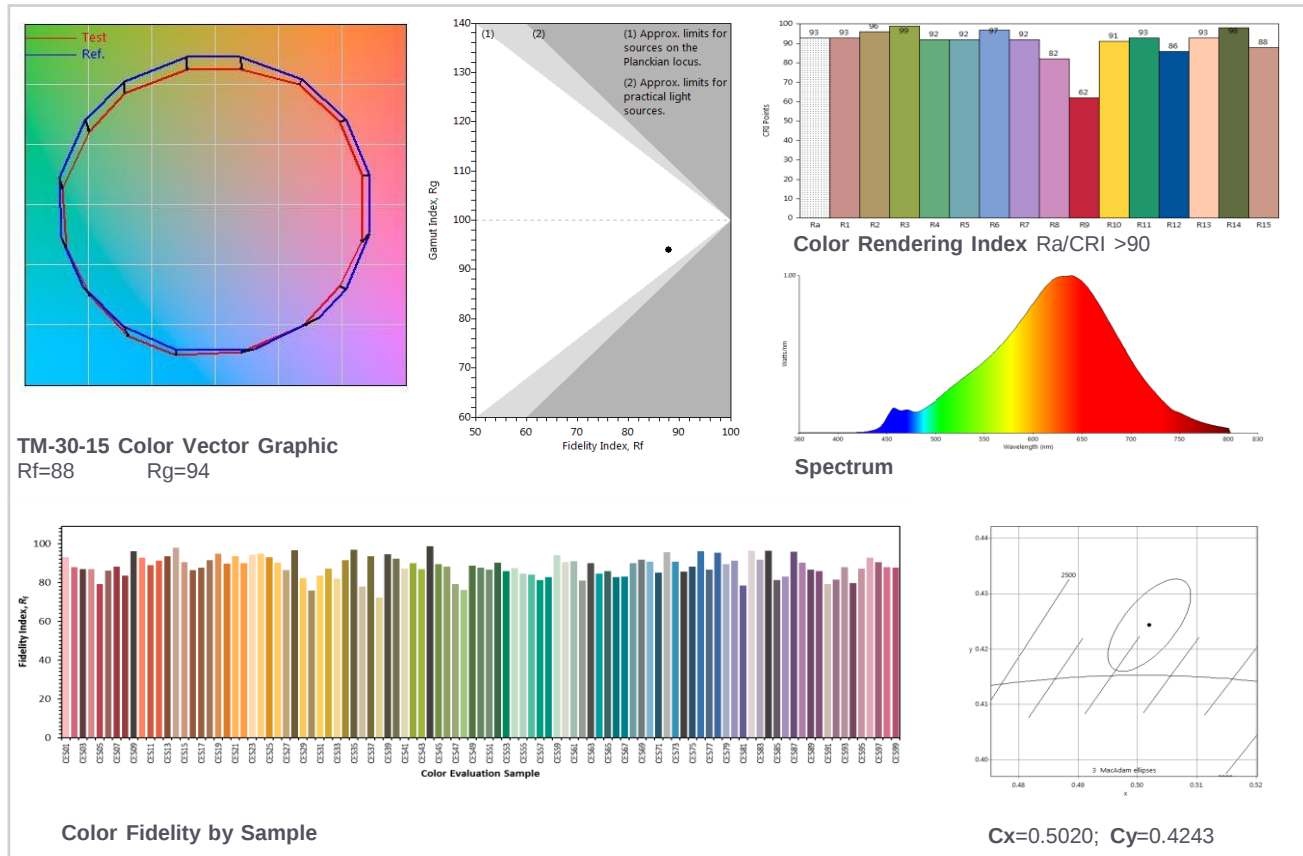
LFD600S-G1-835



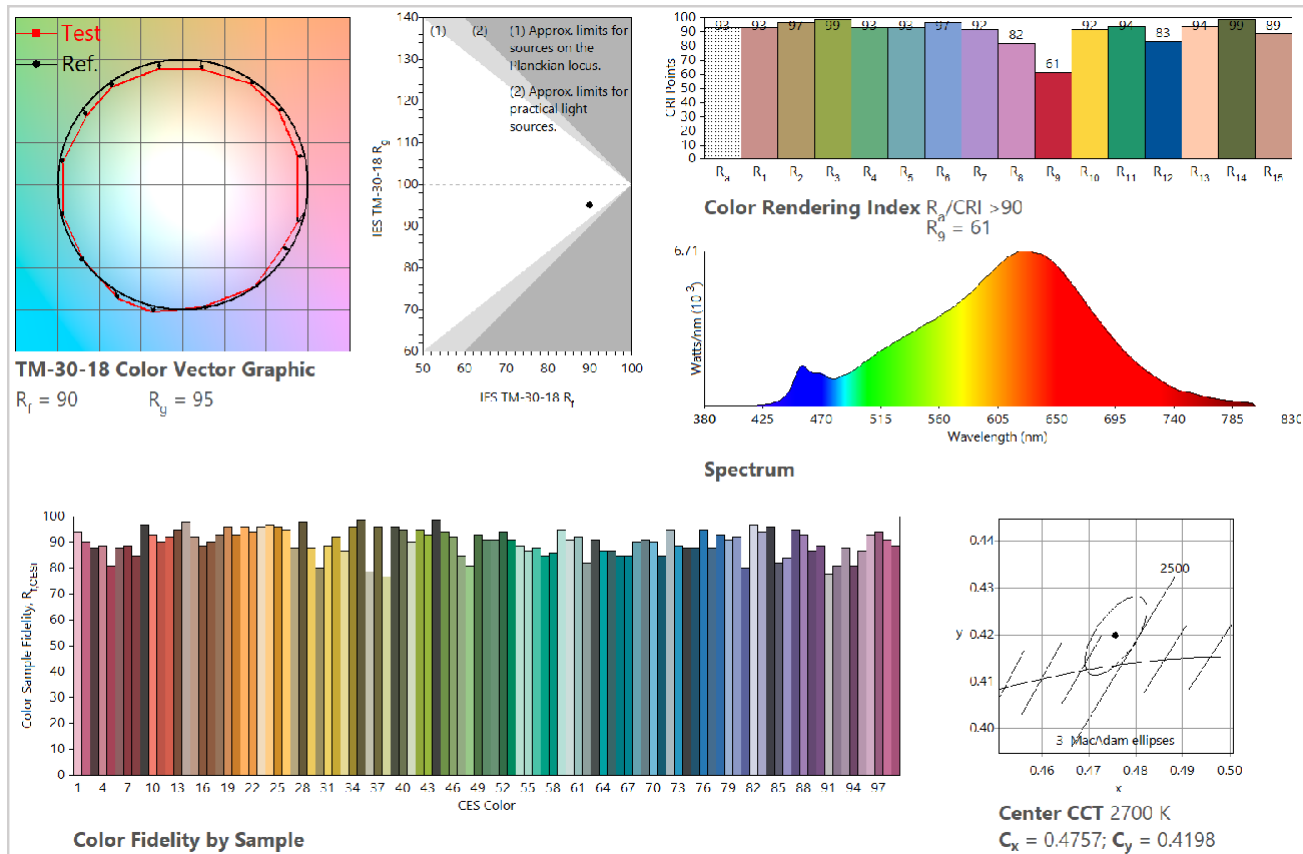
LFD600S-G1-840



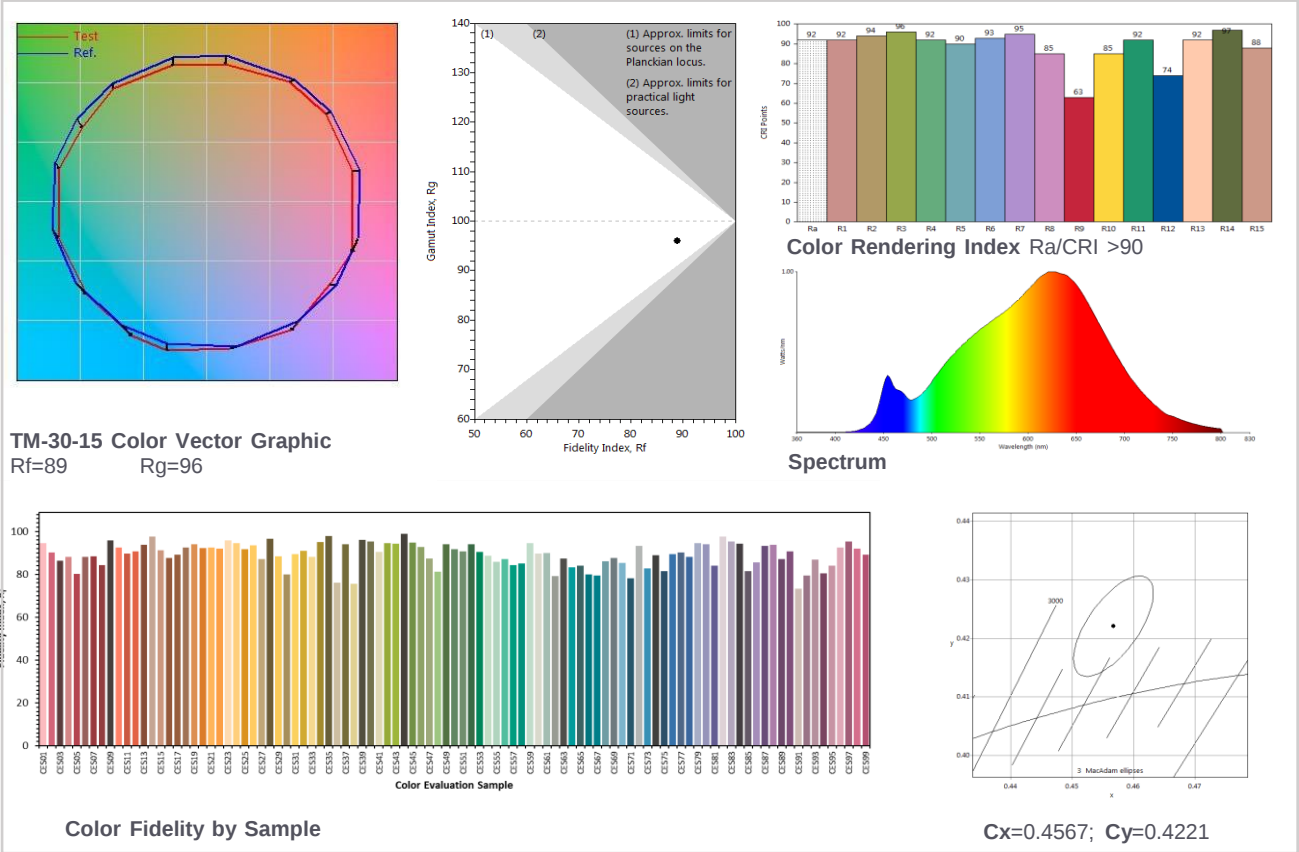
LFD600S-G1-924



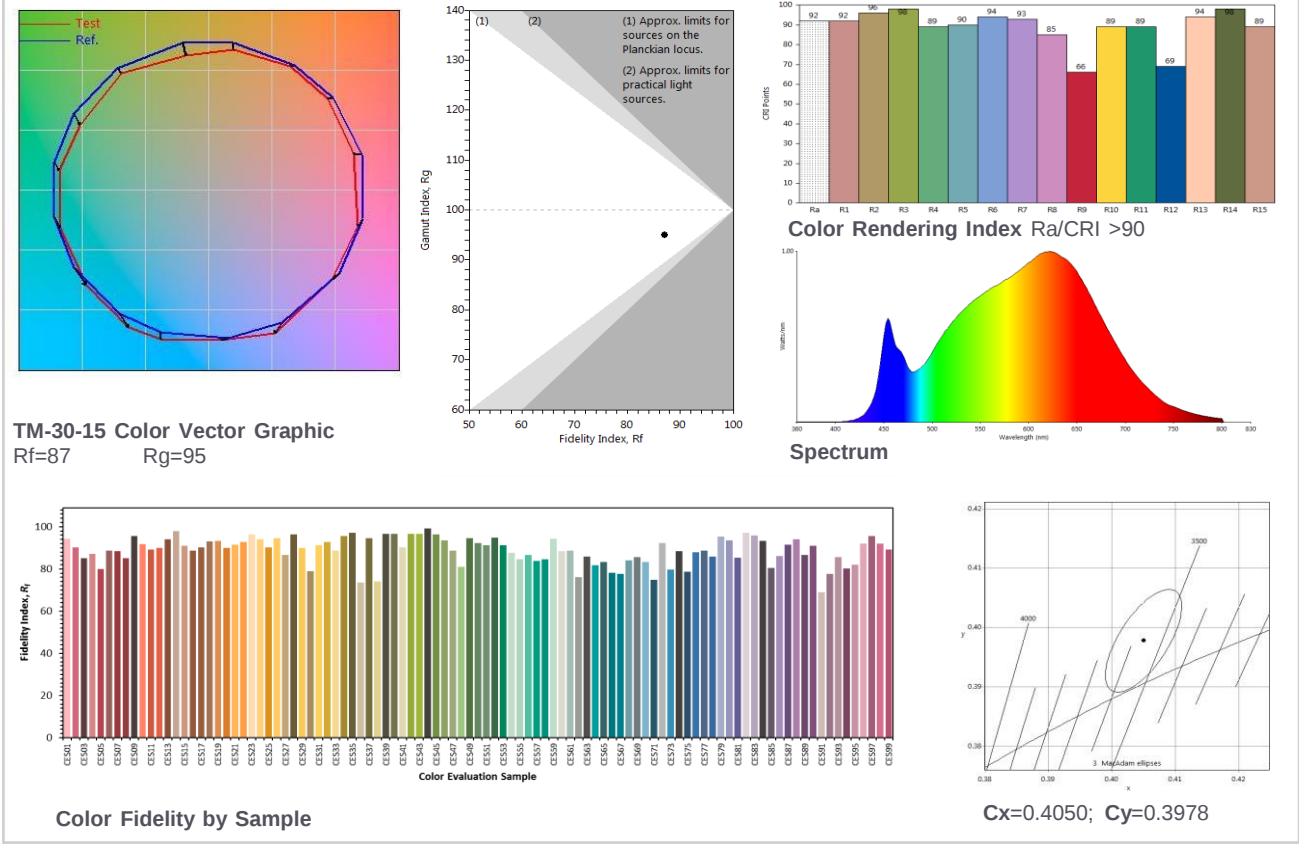
LFD600S-G1-927



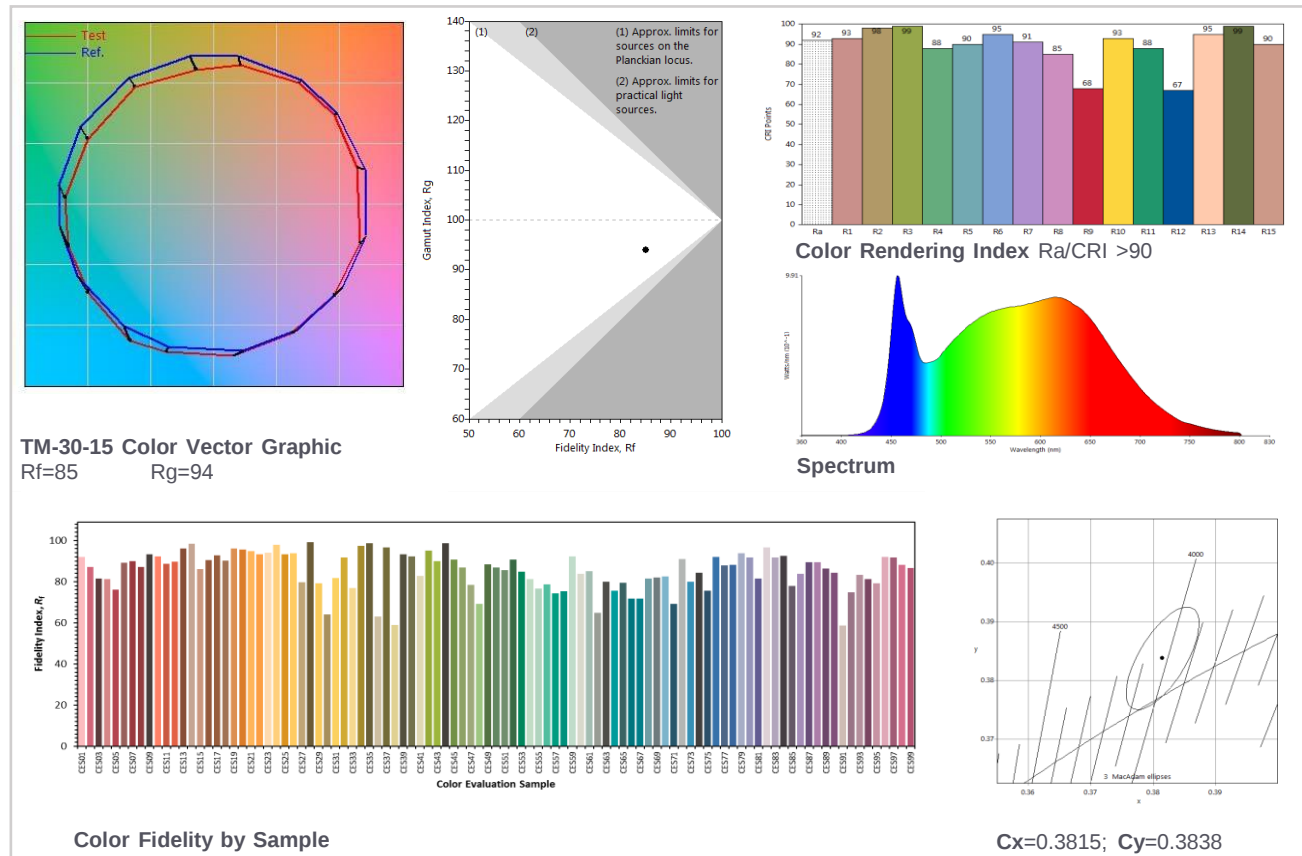
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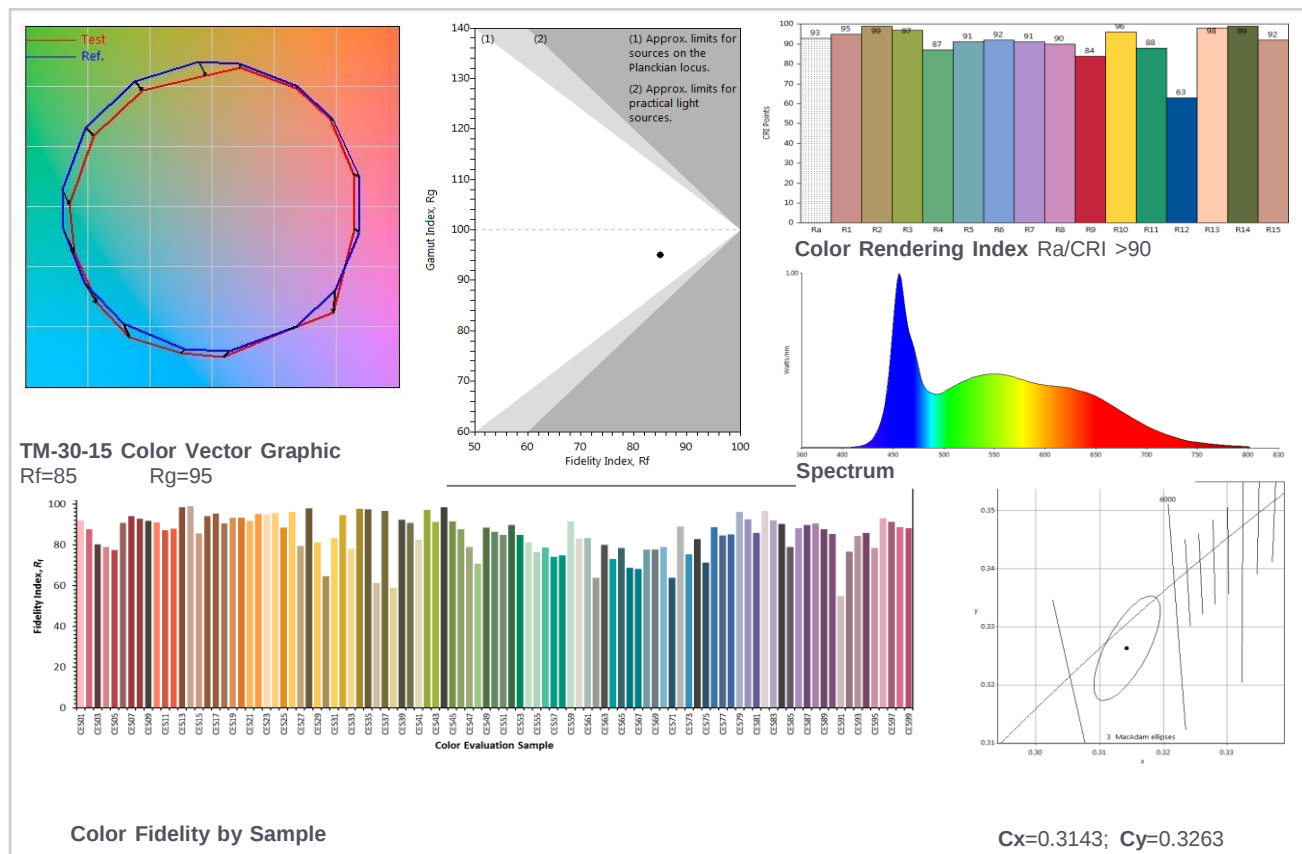
LFD600S-G1-935



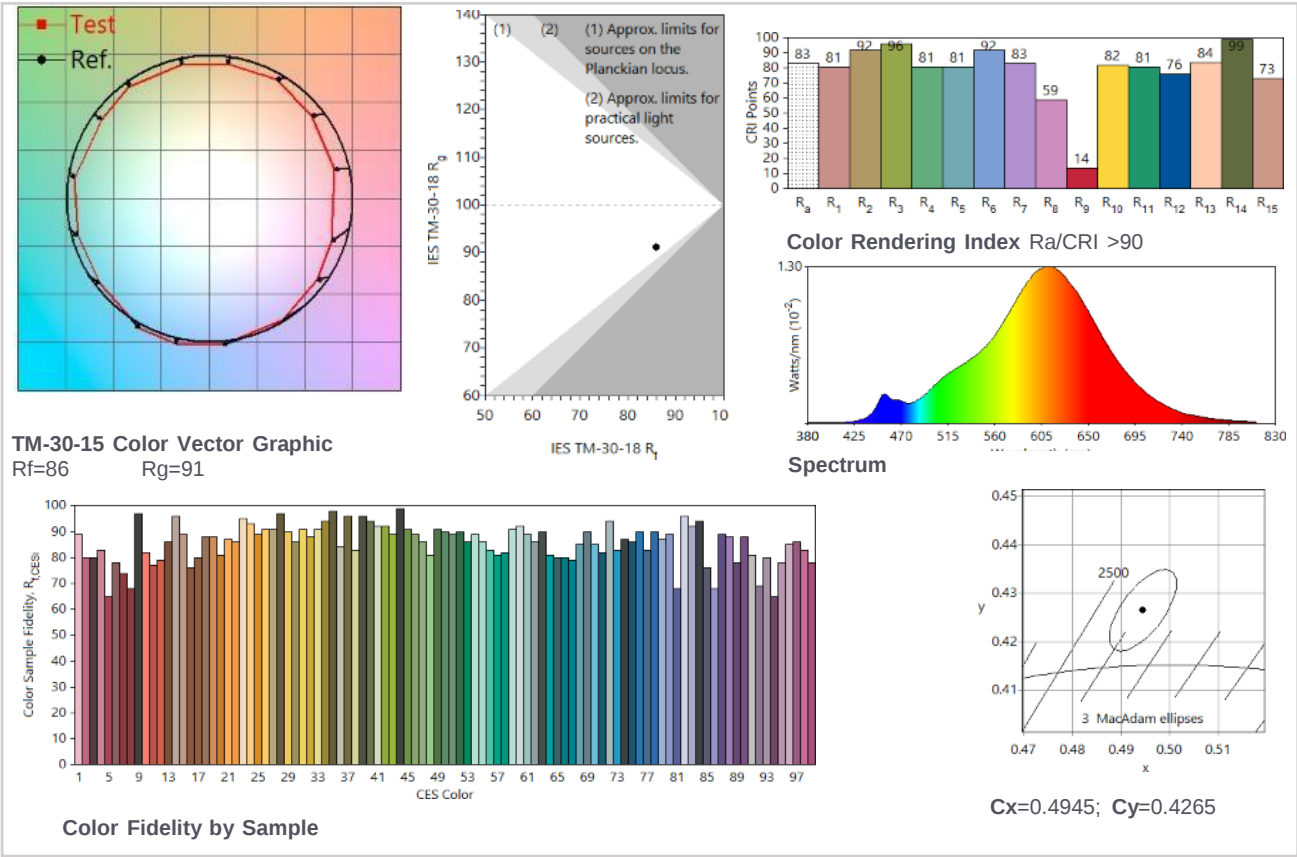
LFD600S-G1-940



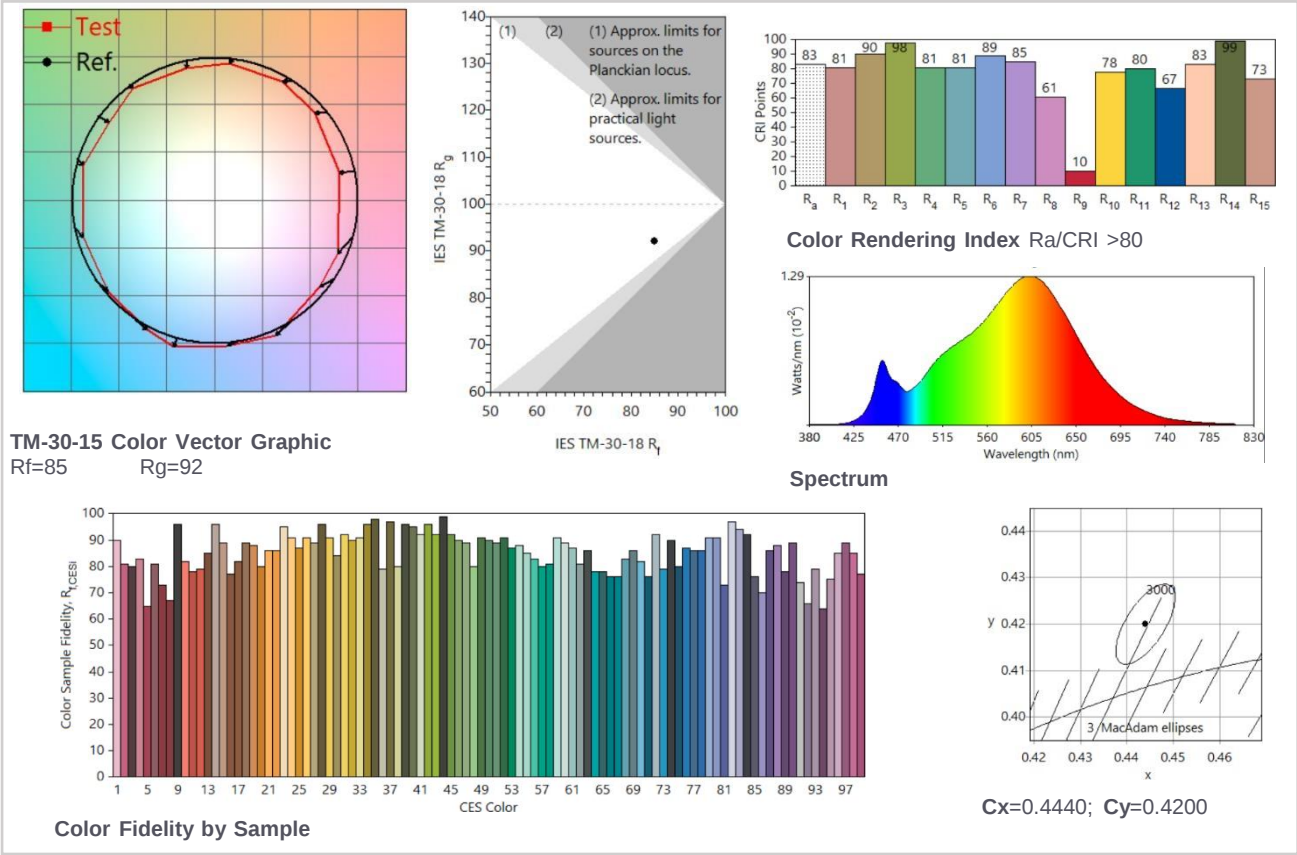
LFD600S-G1-965



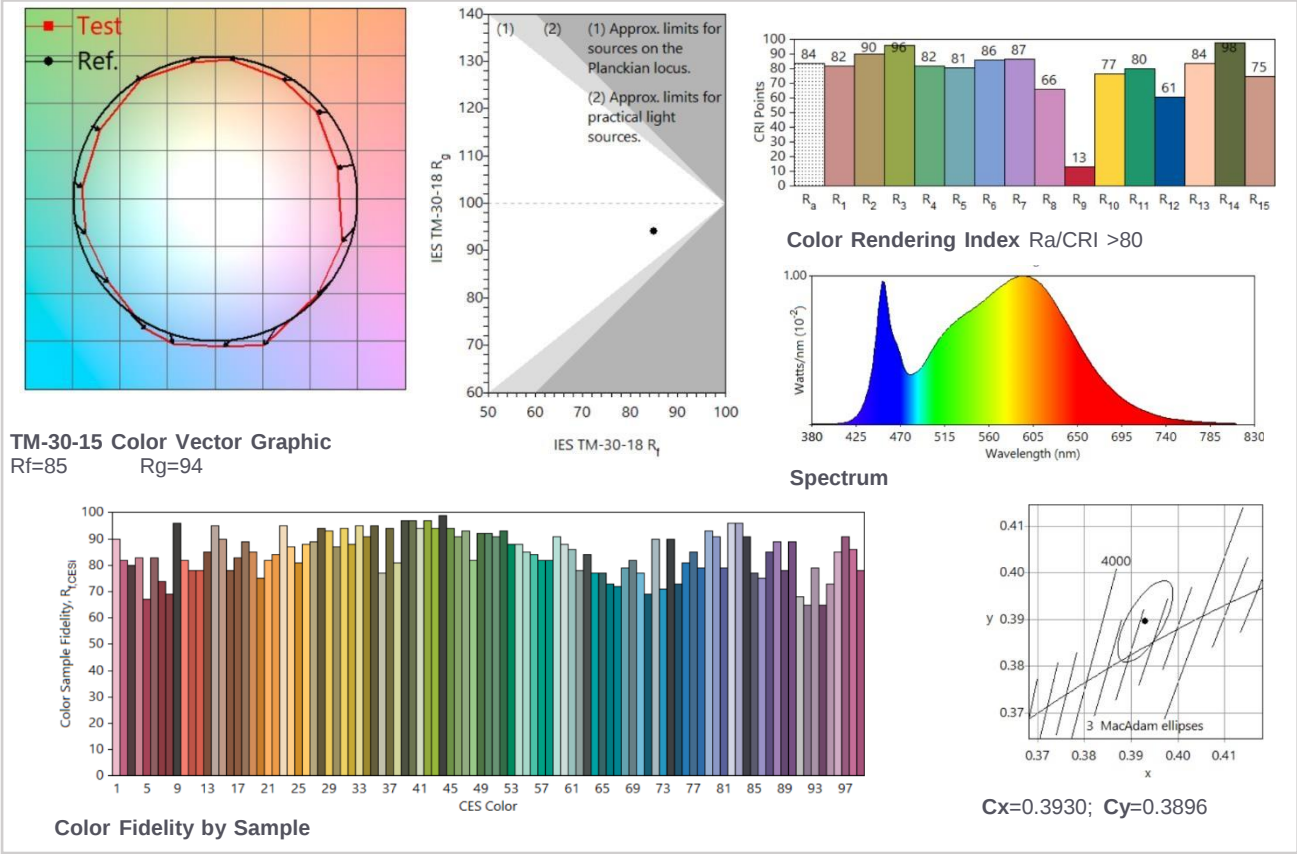
LFD1000S-G1-824



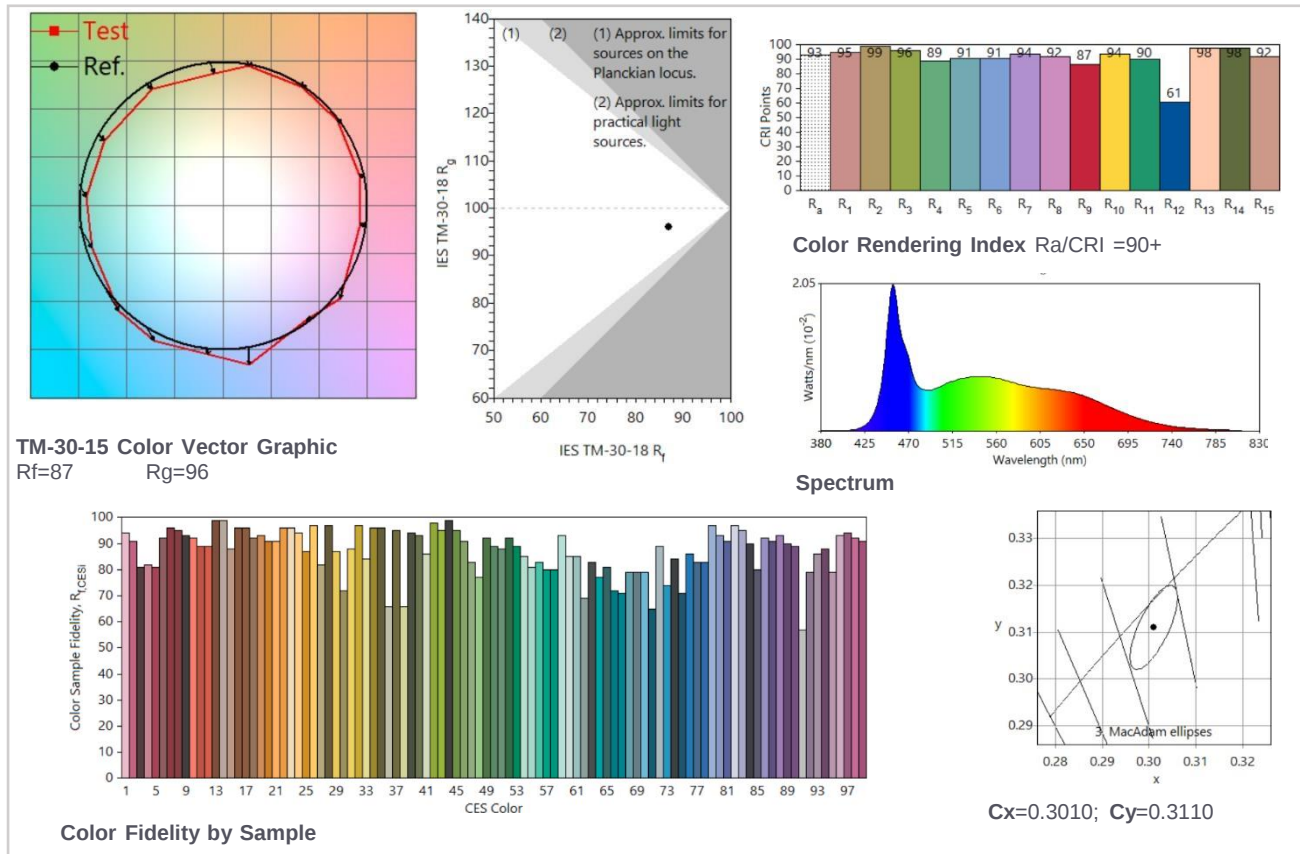
LFD1000S-G1-830



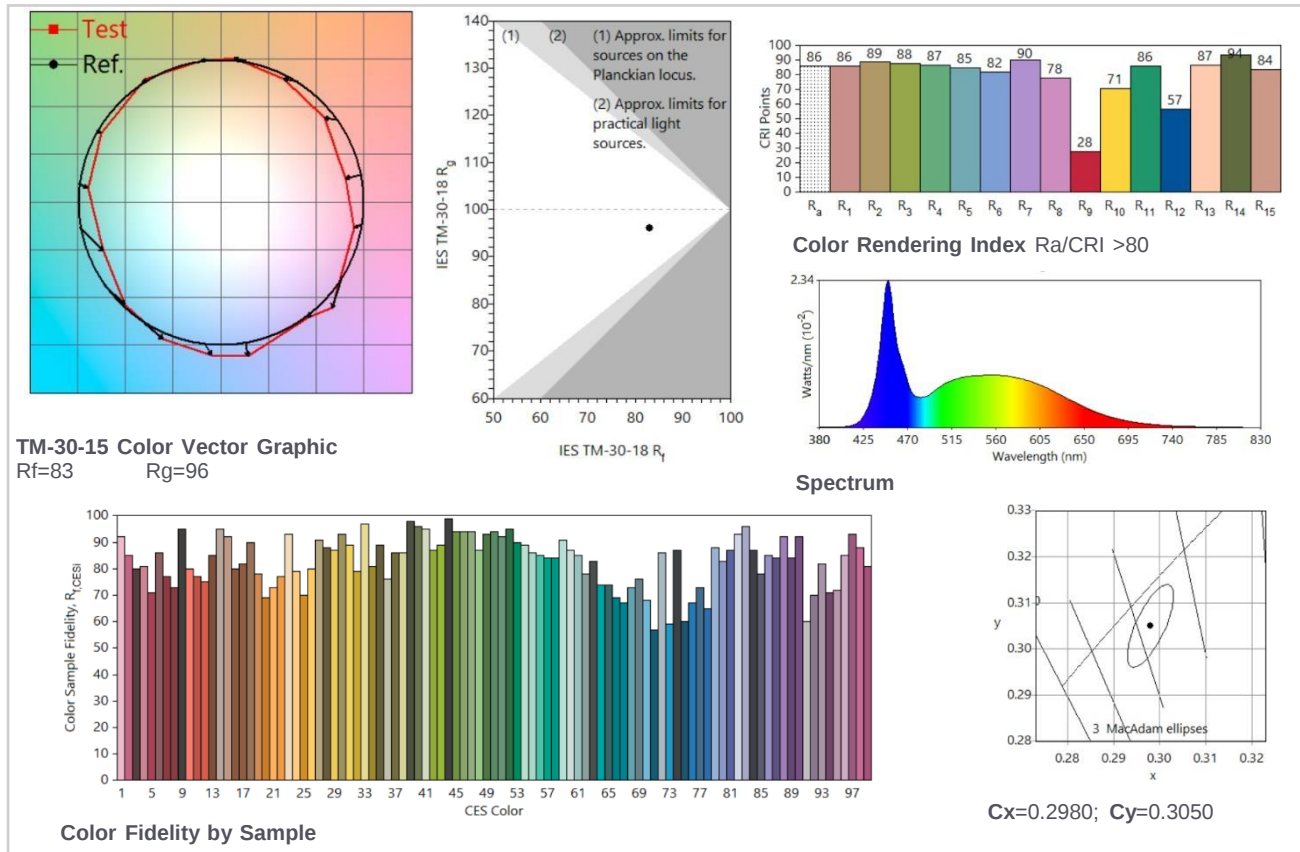
LFD1000S-G1-835



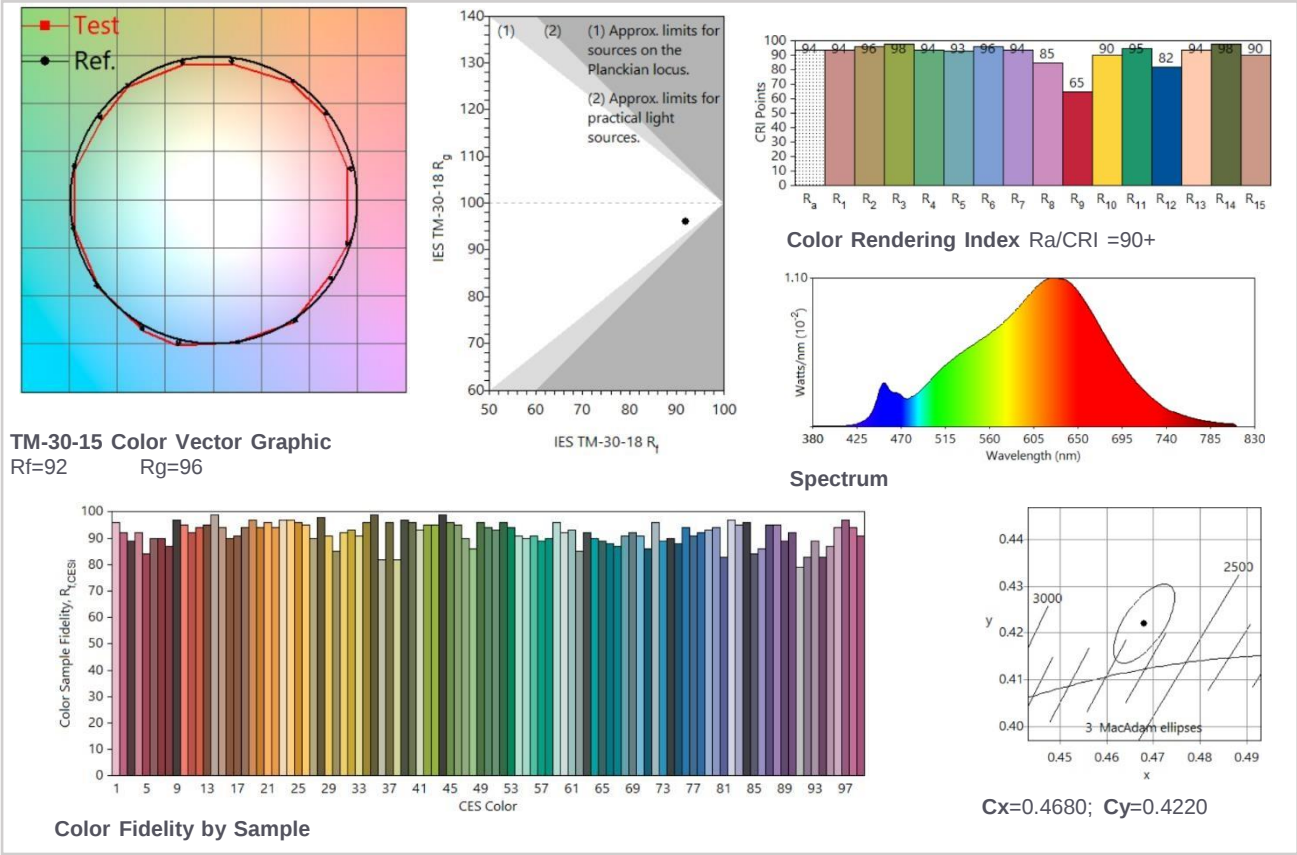
LFD1000S-G1-840



LFD1000S-G1-865

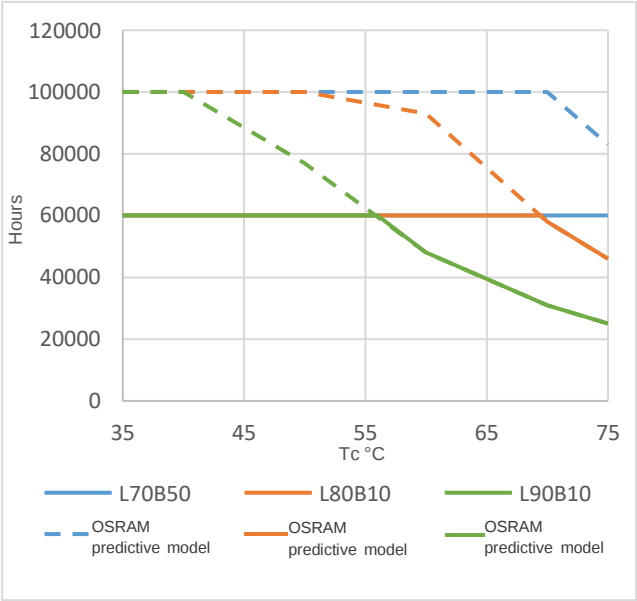


LFD1000S-G1-927

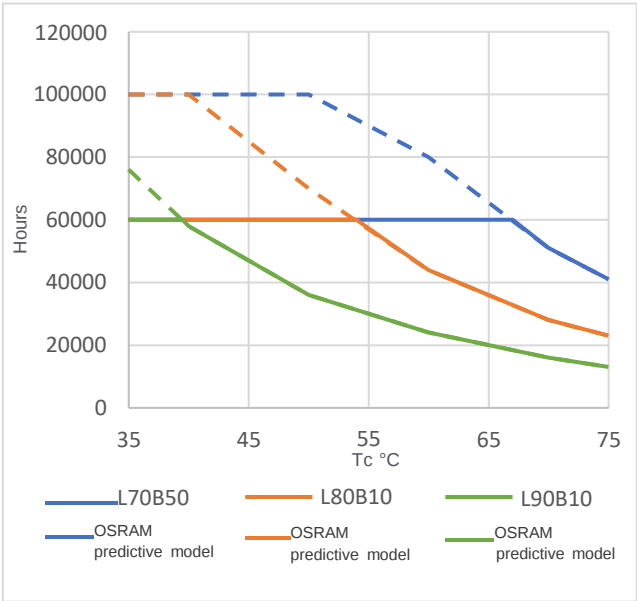


Lifetime

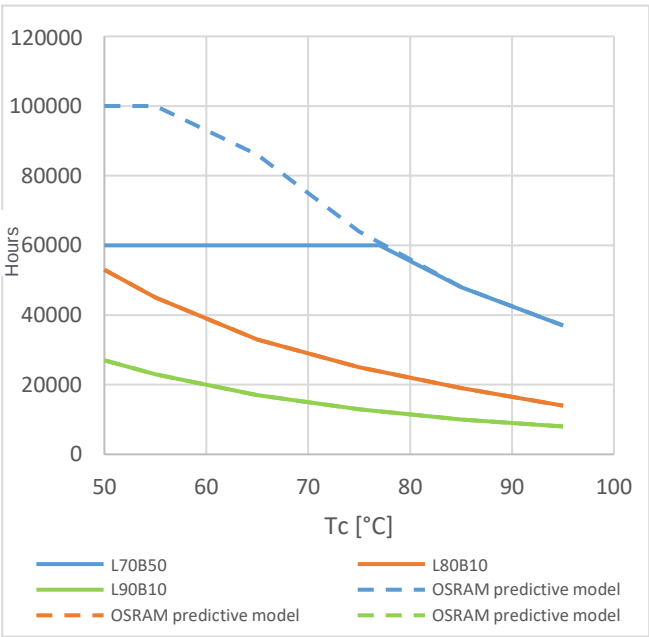
LFD400S/LFD400MS



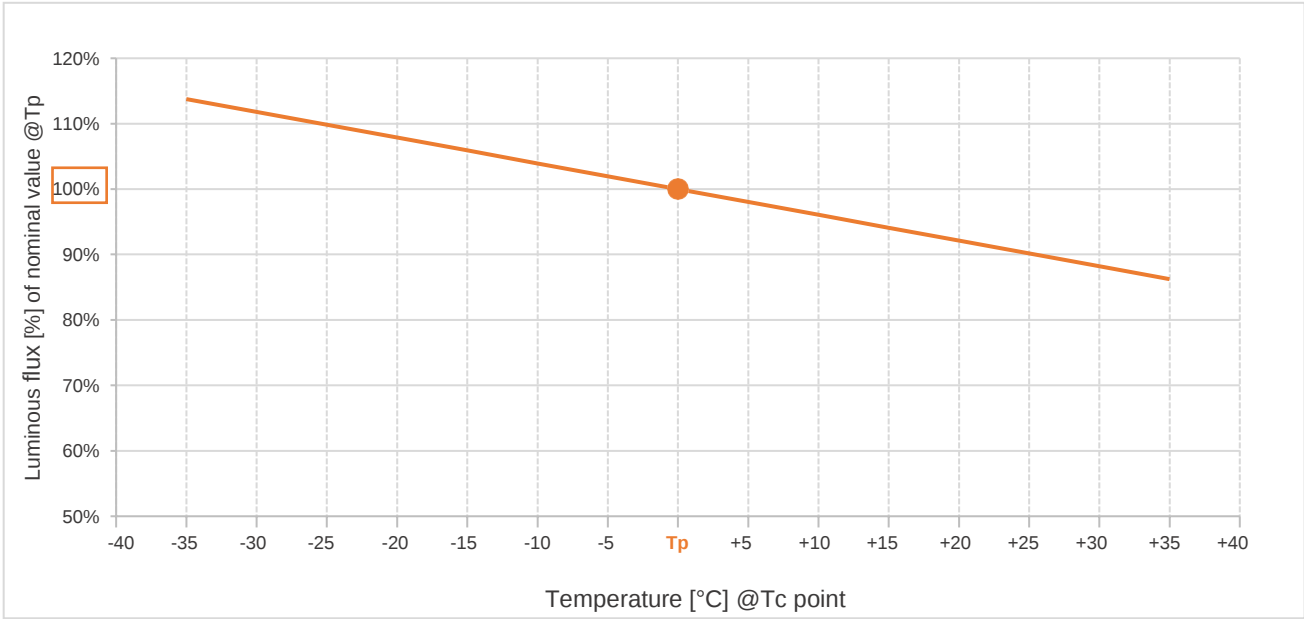
LFD600S



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-G1-824-06	4052899581760	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400S-G1-827-06	4052899581784	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400S-G1-830-06	4052899581807	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400S-G1-835-06	4062172001052	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400S-G1-840-06	4052899581821	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400S-G1-850-06	4062172007658	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400S-G1-865-06	4052899581845	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400S-G1-924-06	4062172025621	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400S-G1-927-06	4062172168960	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400S-G1-930-06	4062172025645	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400S-G1-935-06	4062172025669	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400S-G1-940-06	4062172025683	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400S-G1-965-06	4062172025706	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD600S-G1-824-06	4052899581982	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD600S-G1-827-06	4052899582026	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD600S-G1-830-06	4052899582040	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD600S-G1-835-06	4062172001090	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD600S-G1-840-06	4052899582064	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD600S-G1-850-06	4062172062411	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD600S-G1-865-06	4052899582088	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD600S-G1-924-06	4062172025829	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD600S-G1-927-06	4062172168922	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD600S-G1-930-06	4062172025843	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD600S-G1-935-06	4062172025867	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD600S-G1-940-06	4062172025881	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD600S-G1-965-06	4062172025904	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD1000S-G1-824-04	4062172230322	4000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD1000S-G1-827-04	4062172230346	4000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD1000S-G1-830-04	4062172230360	4000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD1000S-G1-835-04	4062172230384	4000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD1000S-G1-840-04	4062172230407	4000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD1000S-G1-865-04	4062172230421	4000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD1000S-G1-927-04	4062172230537	4000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD1000S-G1-930-04	4062172230551	4000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD1000S-G1-935-04	4062172230575	4000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD1000S-G1-940-04	4062172230599	4000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD1000S-G1-965-04	4062172230612	4000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector

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)
 Jumper kit with endcaps & glue	FX-DCS-G1-CM2PJ-IP67-TOPKIT5	4052899452077	5x Jumper, 10x Endcaps, 1x Glue (5g)
 Endcaps & glue	FX-DCS-G1-CM2PJ-IP67-SIDEKIT5	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

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

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 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	50	40	40
 Bendable profile	FX-LFDM-BEND-1000 KIT 3 PCS	4062172192583	47	39	39
	Without any profile		47	39	39

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 SURFACE MOUNTING					
			LFD400S	LFD600S	LFD1000S
Profile Type	Product description	Product code (EAN)	Ambient Temperature °C		
 Side profile	FX-LFDM -G1-TS-16H16-200	4052899544925	45	33	31
 Bendable profile	FX-LFDM-BEND-1000 KIT 3 PCS	4062172192583	41	31	30
	Without any profile		41	31	30

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

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 2SD CM 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.