

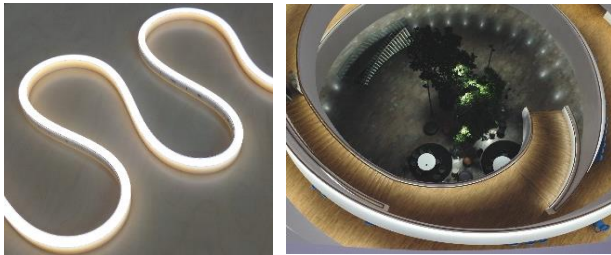
Light is OSRAM

OSRAM

LINEARlight FLEX® DIFFUSE Side

Homogeneous and uniform dot free light lines

LFD400/600S & LFD400MS



Features & Benefits

- Diffuse light lines without visible spots
- Luminous flux up to 680 lm/m
- IP66 & IP67 protection with high performance silicone
- Color uniformity ≤ 2 SDCM*
- Lifetime up to 60.000 h L80B10 at Tp (White)
- Lifetime up to 50.000 h L70B50 at Tp (Monochrome)
- LM80 & LM79 compliant
- 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

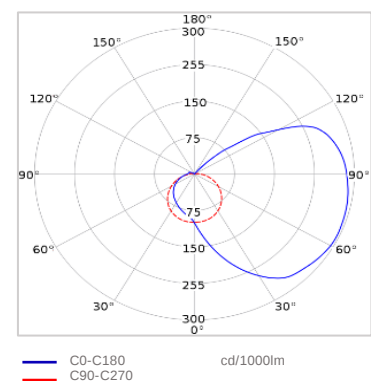
Architectural integration, Façade lighting, Cove lighting, Outdoor applications

Standards

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

Main data

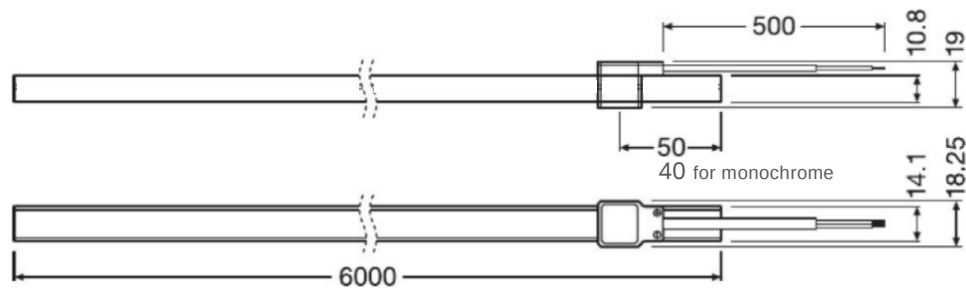
Operating voltage	24.0 V (23.0 ... 25.0 V)
Accidental reverse voltage protection up to	25.0 V
Product length	6000 mm
Product cross section (excl. connector)	(W) 10.8 mm x (H) 14.1 mm
Can be cut in field each	50 mm (white) / 40 mm (colors)
Connector factory installed with flying leads	500 mm
Lifetime L80B10 @ Tp	60.000 h (white)
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°

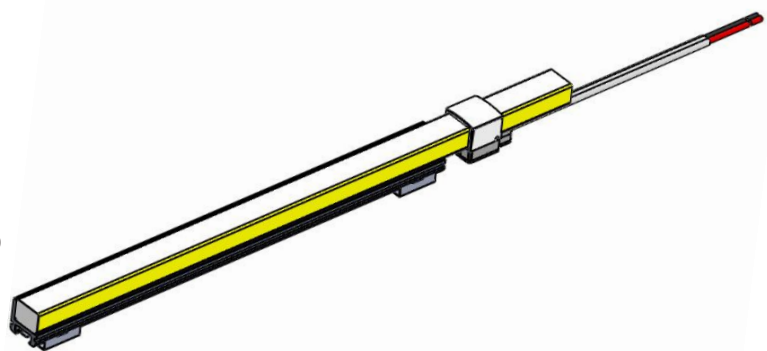
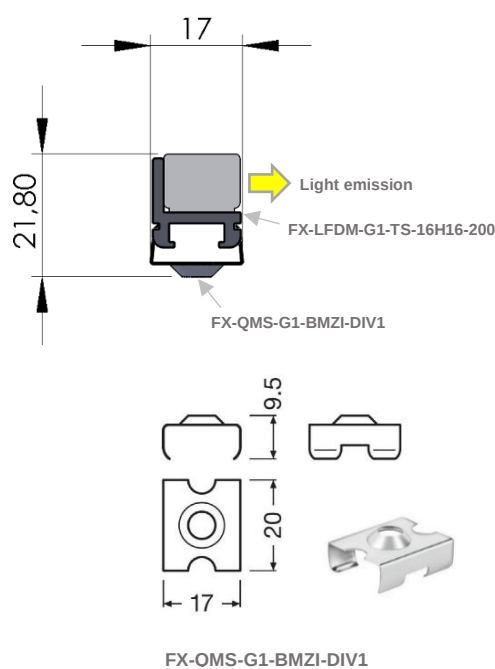
Mechanical data

LFD400 / LFD600 SIDE



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

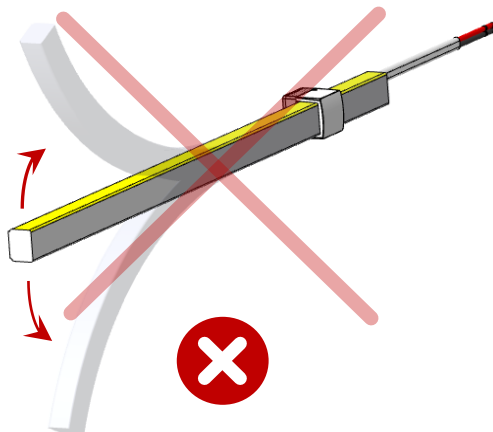
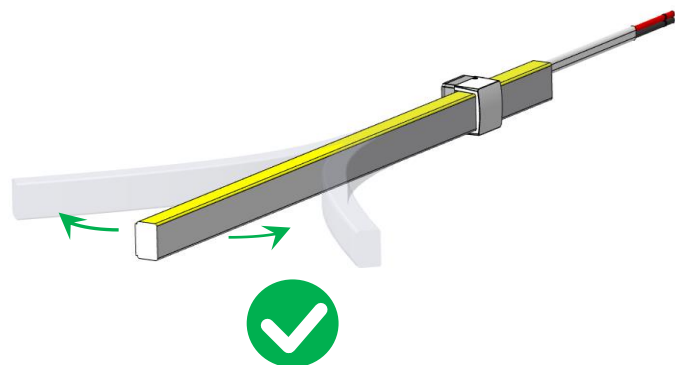
LFD400 / LFD600 SIDE with optional accessories



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

Allowed:

NOT allowed:



Technical data

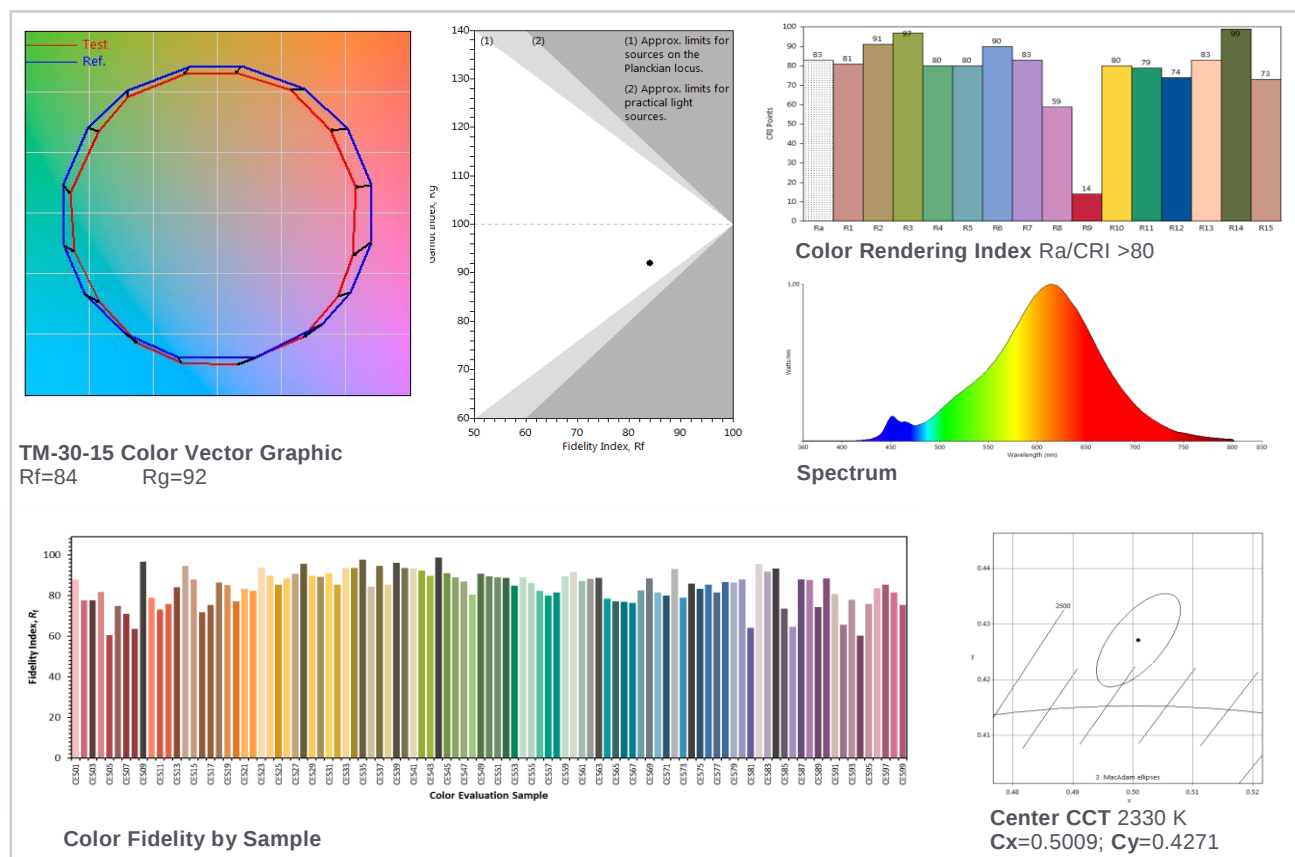
LFD400S White		Nominal CCT See color output data	CRI	Luminous Flux per meter lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LFD400S-G1-824-06		2400 K	>80	430	7.2	60	35	6
LFD400S-G1-827-06		2700 K	>80	430	7.2	60	35	6
LFD400S-G1-830-06		3000 K	>80	450	7.2	63	35	6
LFD400S-G1-835-06		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-G1-930-06		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-G1-930-06		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

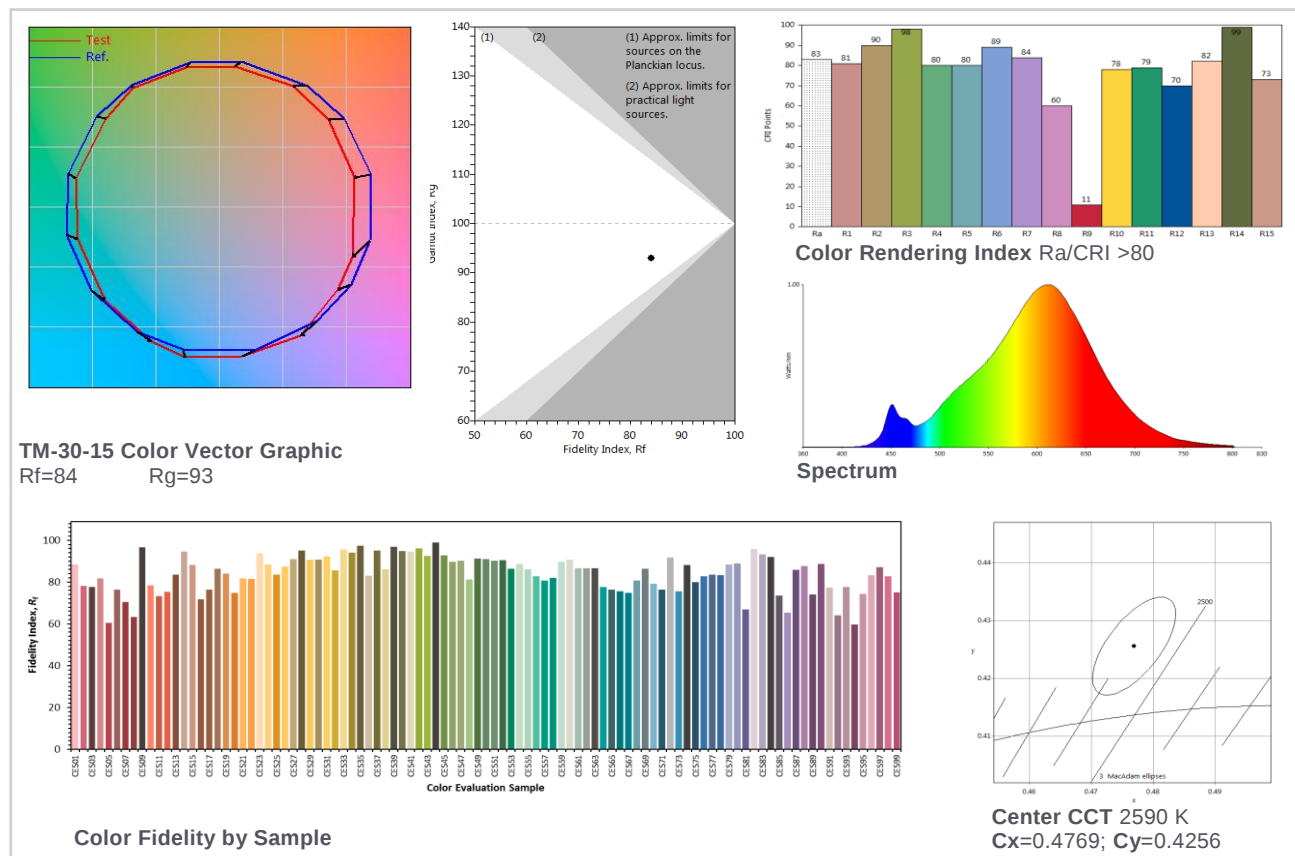
LFD400MS Monochrome	Color	Dom. λ nm	Luminous Flux per meter lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m	
LFD400MS-G1-BL-06		Blue	457-467	55	12	5	32	6
LFD400MS-G1-GR-06		Green	525-539	260	12	22	32	6
LFD400MS-G1-RE-06		Red	612-626	240	12	20	32	6
LFD400MS-G1-YE-06		Yellow	586-594	150	12	13	32	6
LFD400MS-G1-OR-06		Orange	603-611	160	12	13	32	6

Color output data

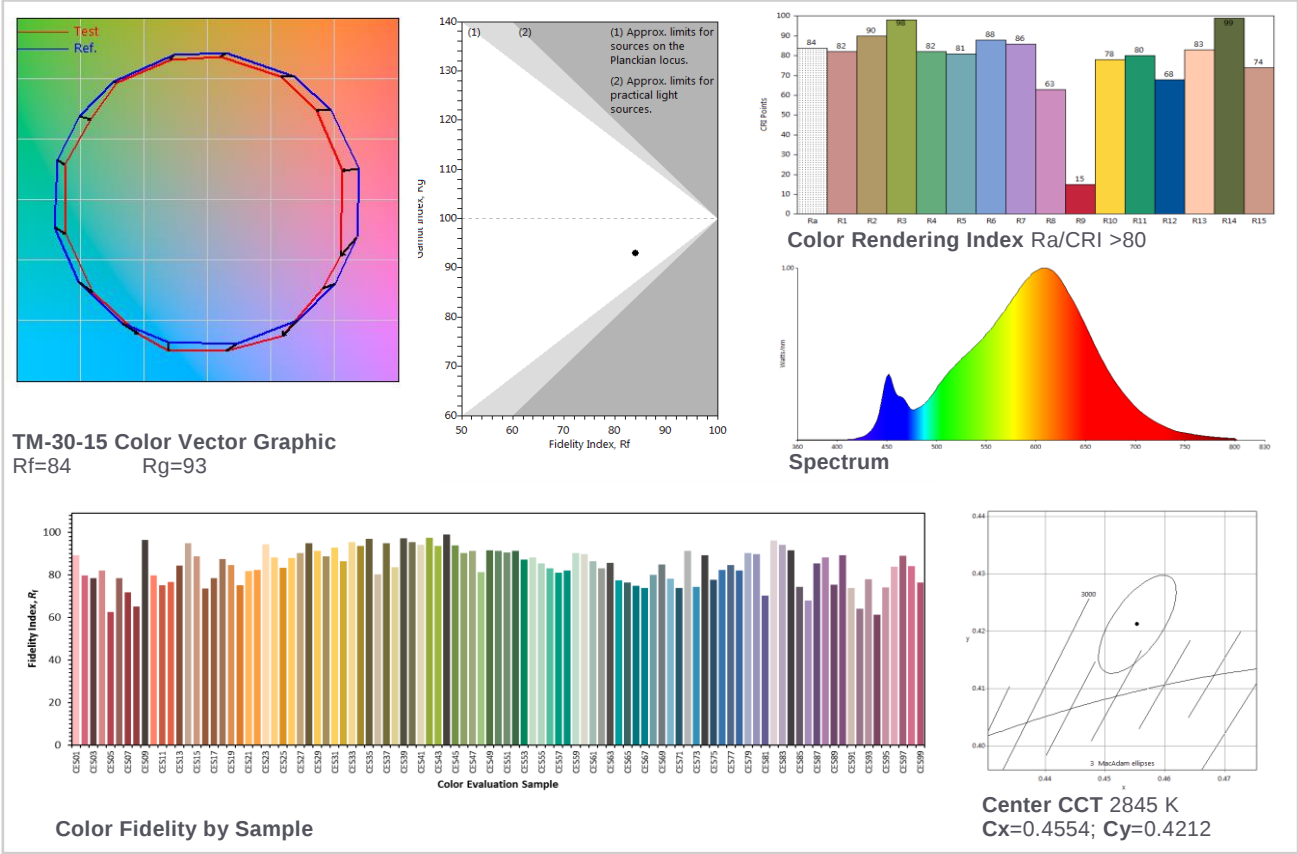
LFD400S-G1-824



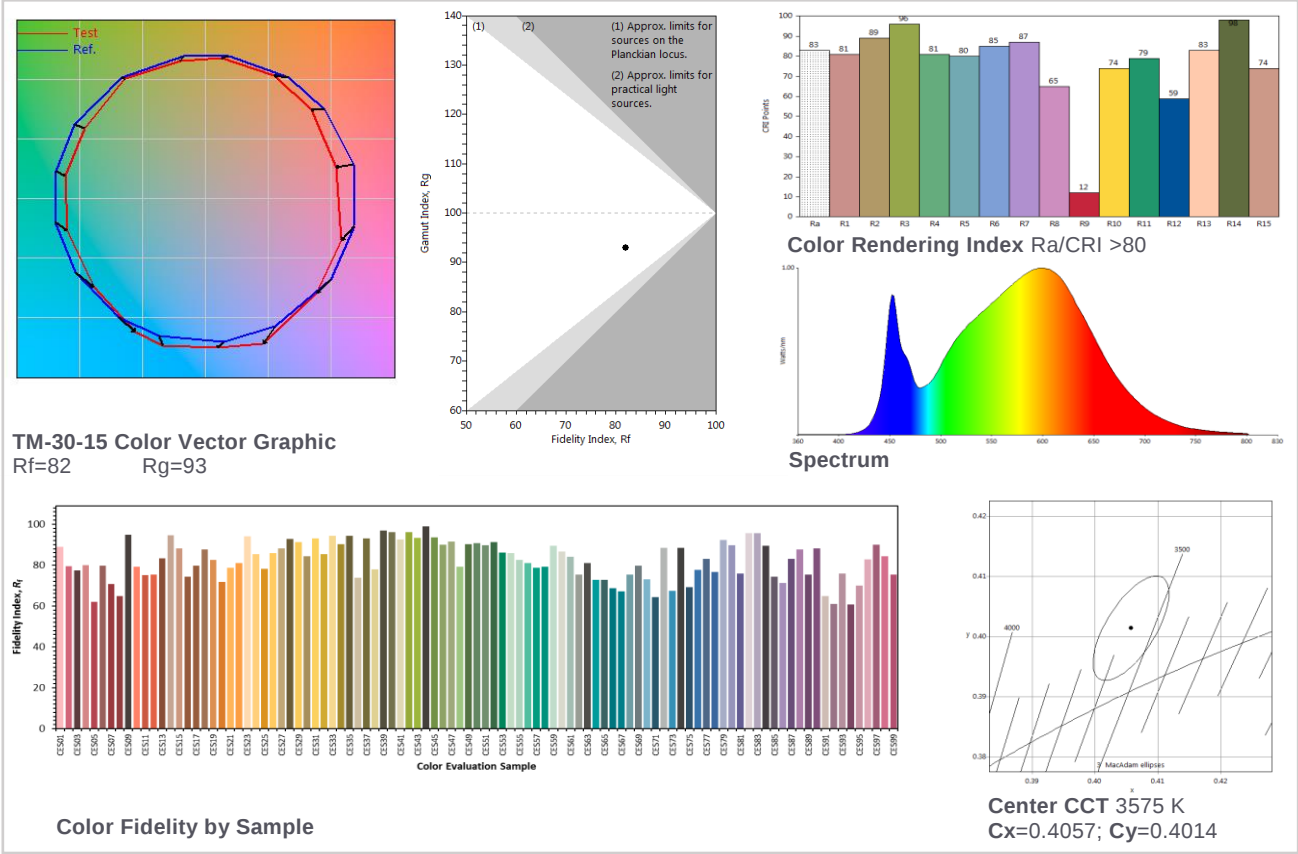
LFD400S-G1-827



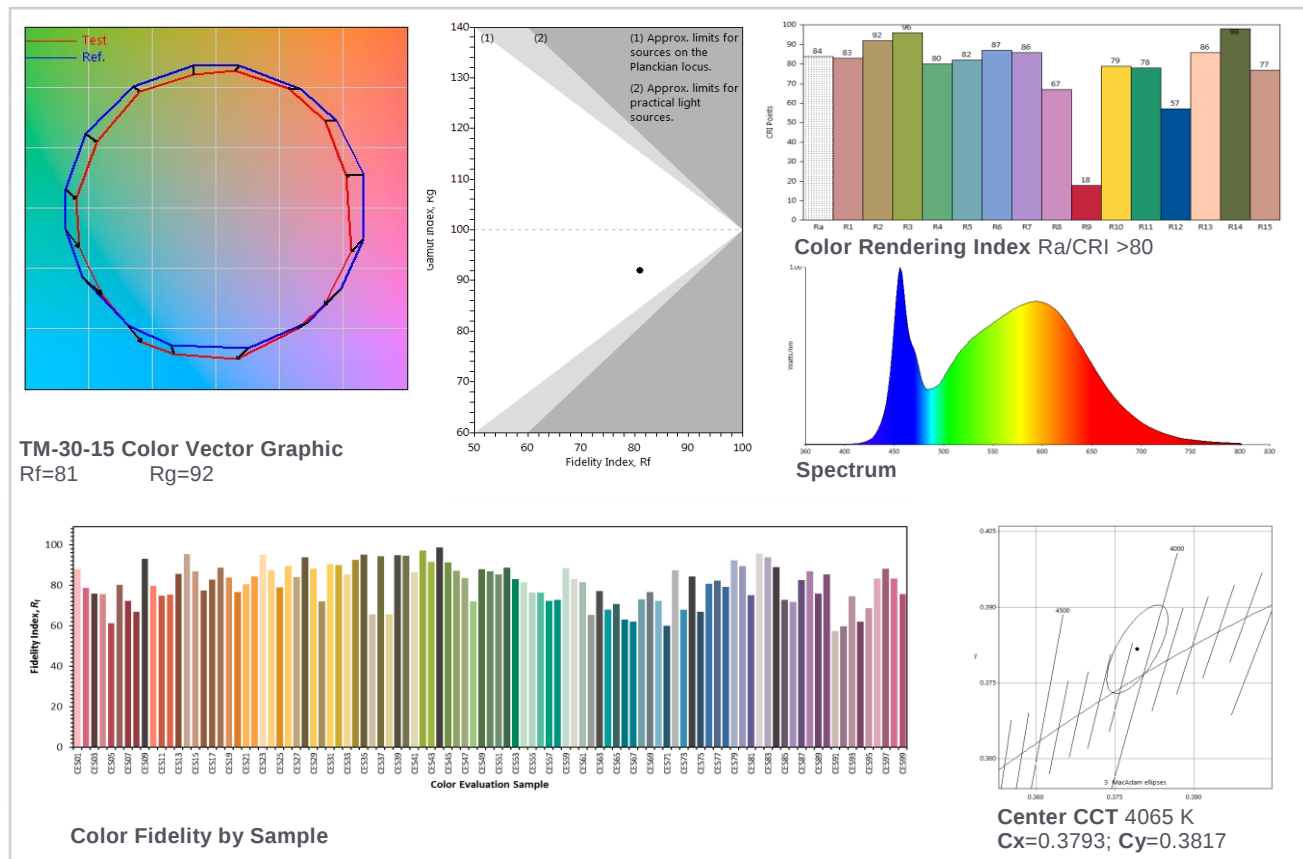
LFD400S-G1-830



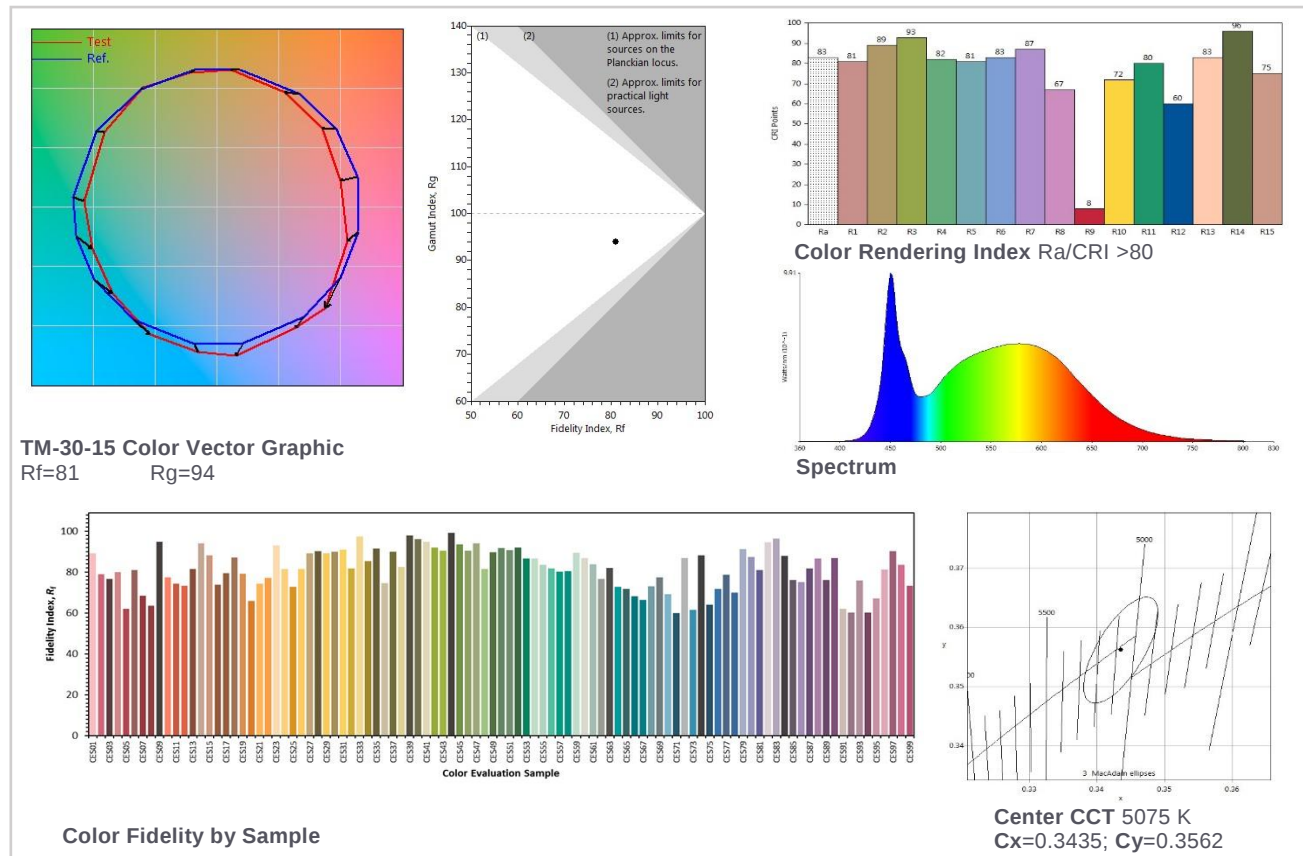
LFD400S-G1-835



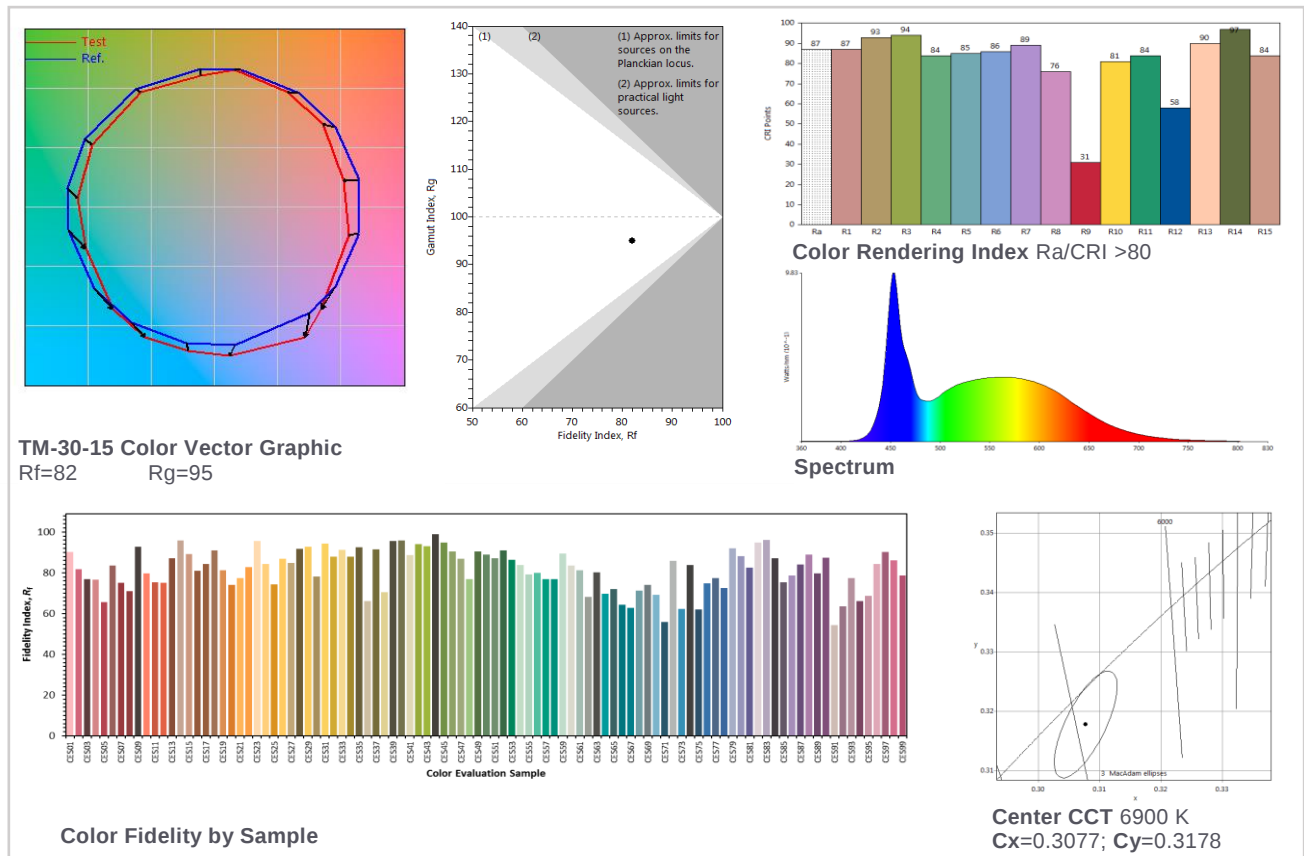
LFD400S-G1-840



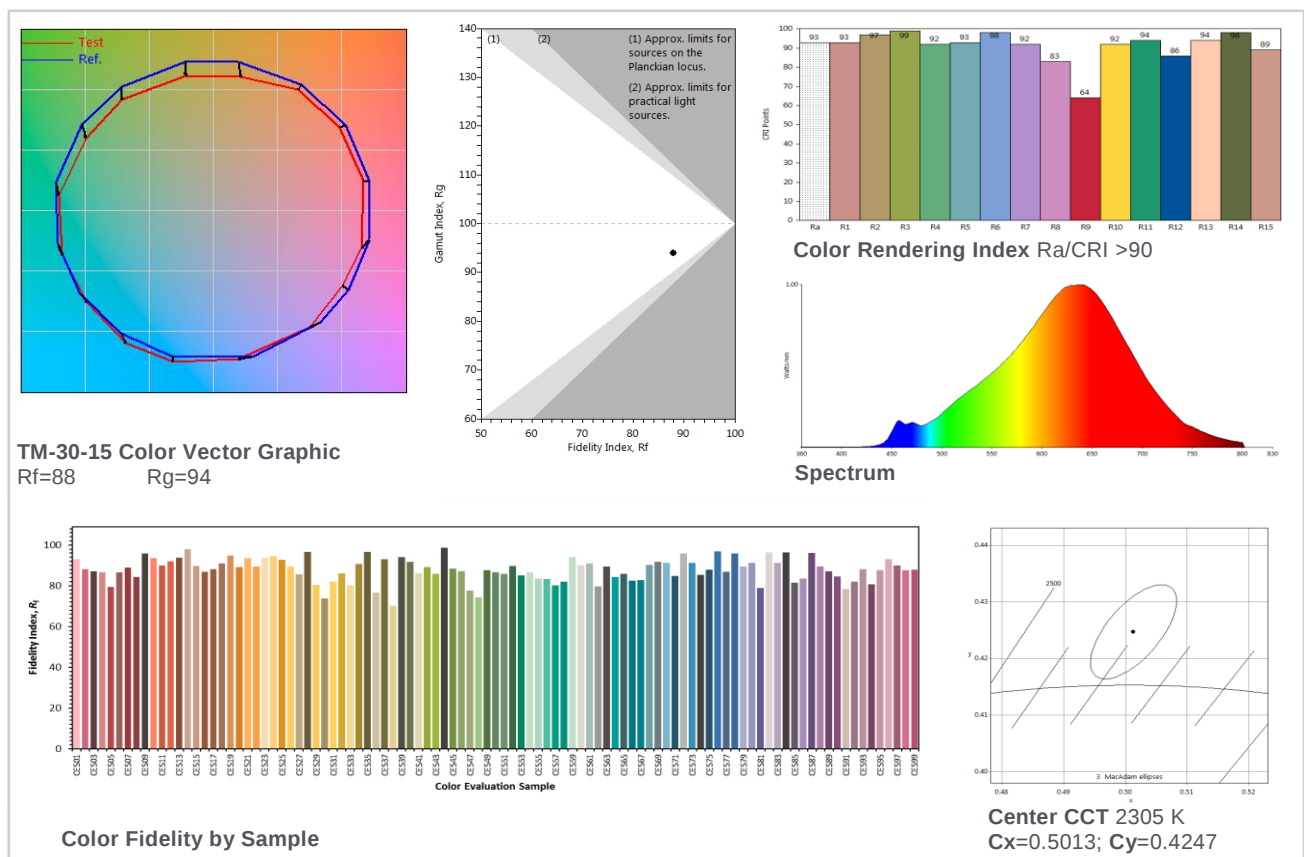
LFD400S-G1-850



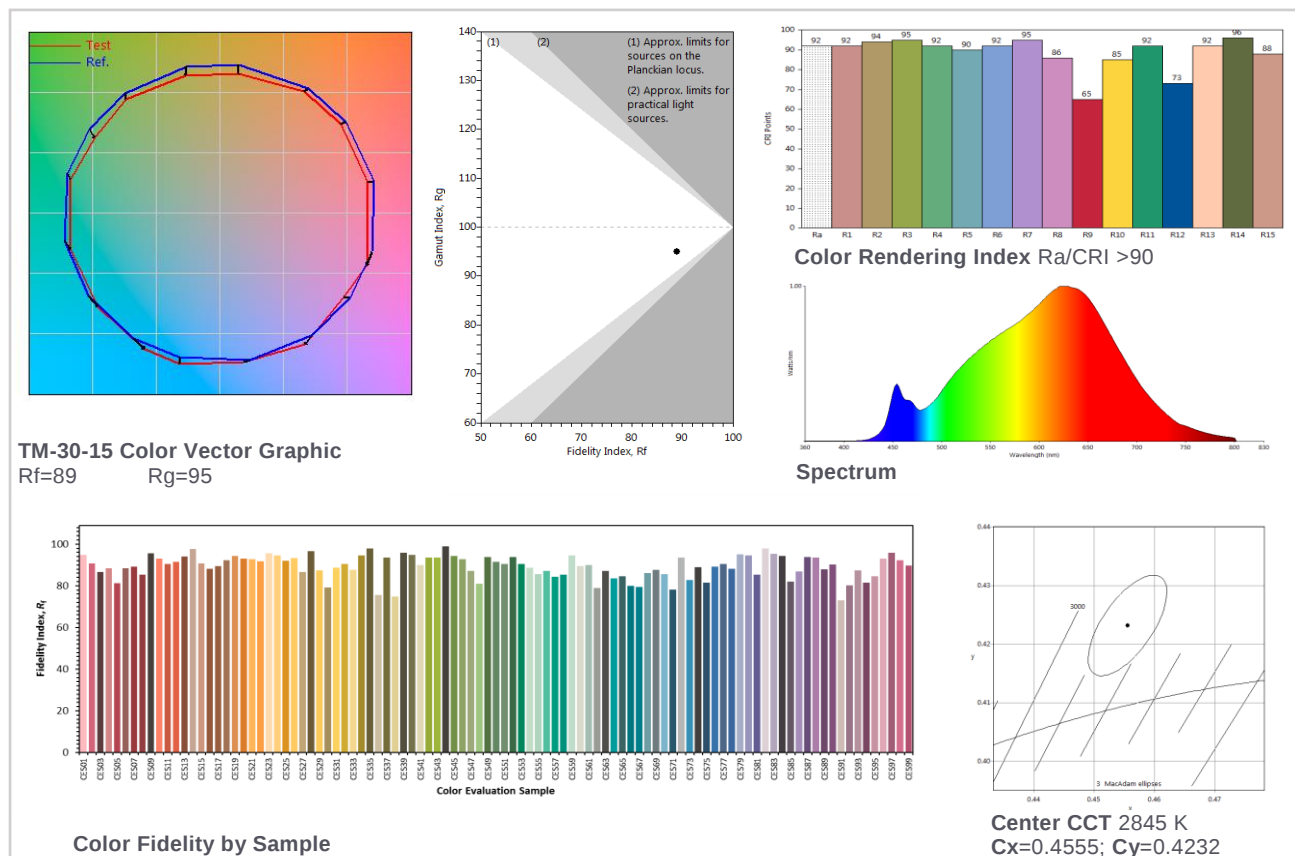
LFD400S-G1-865



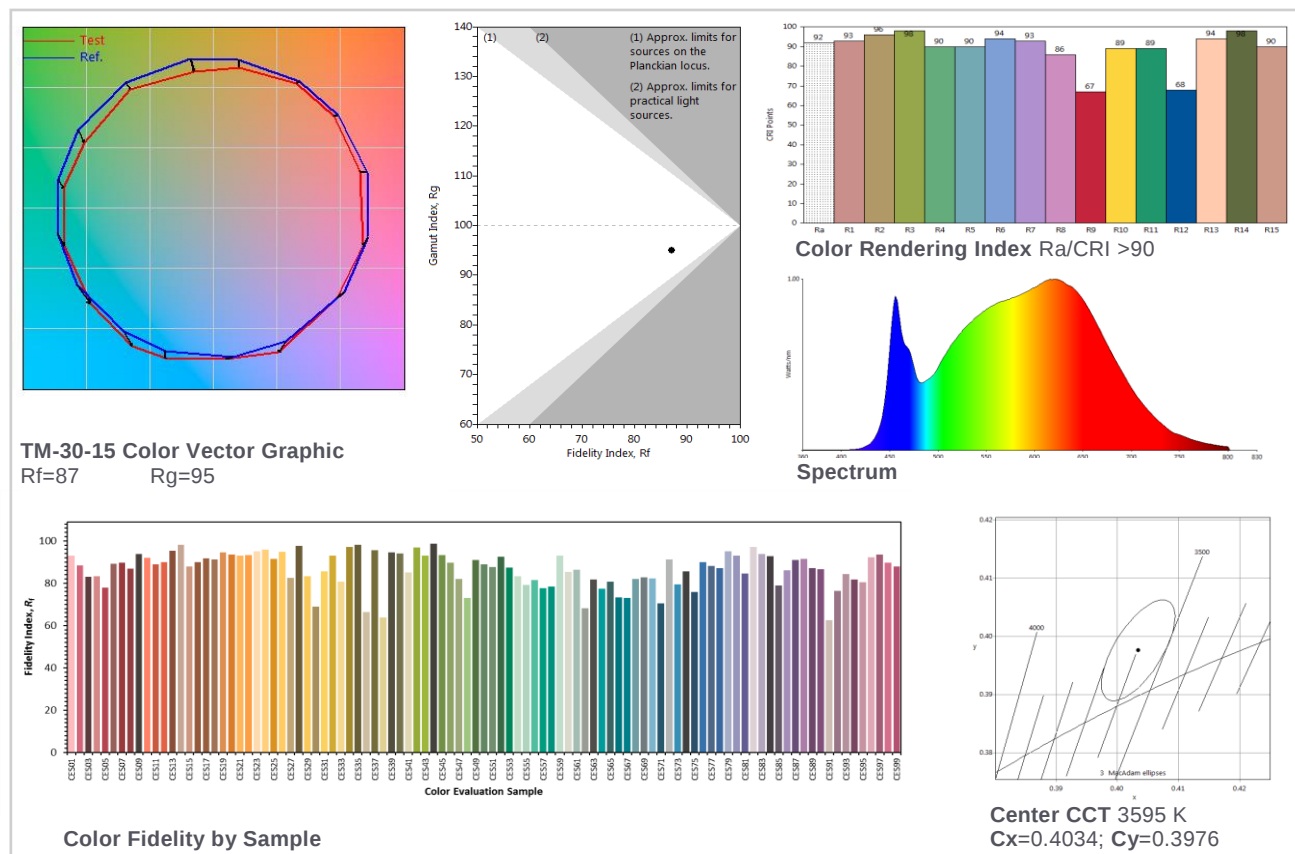
LFD400S-G1-924



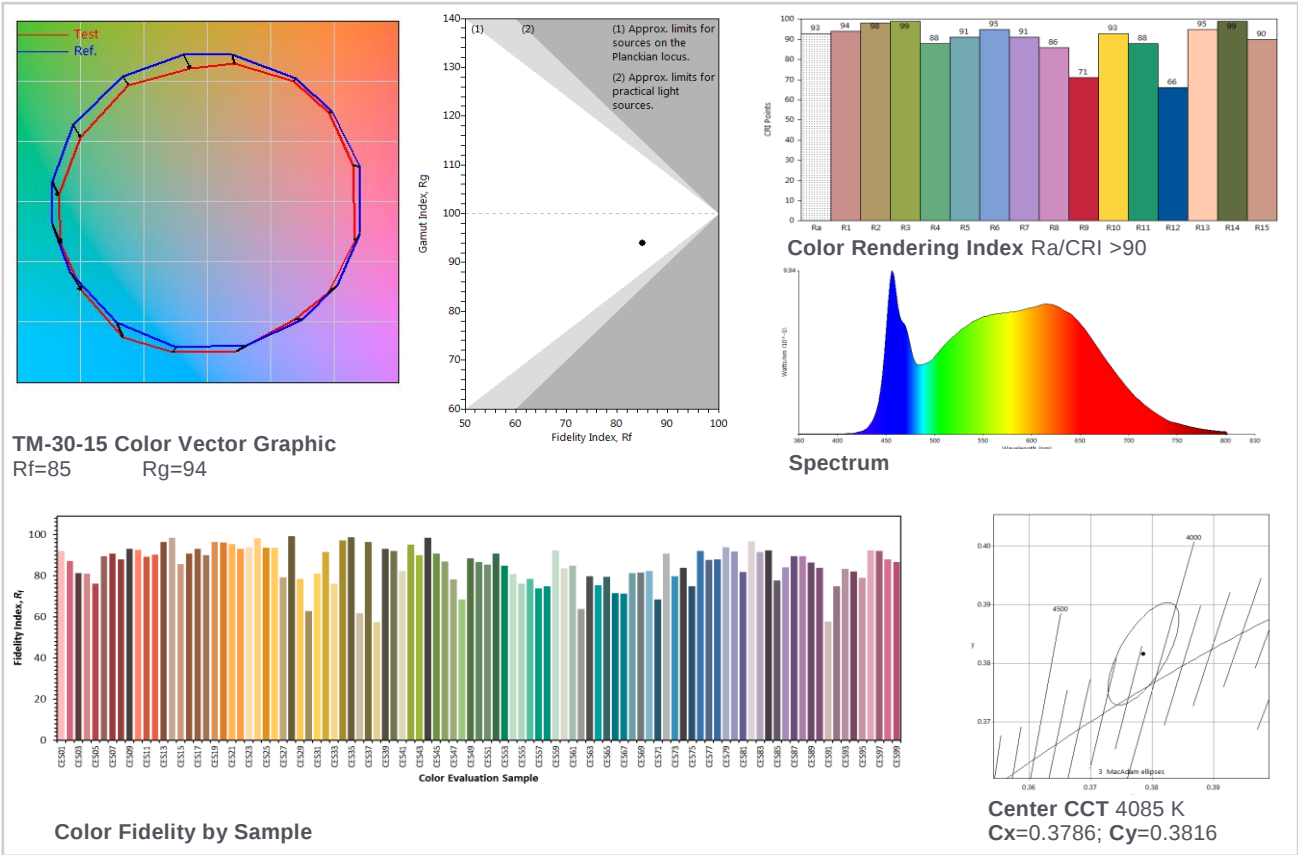
LFD400S-G1-930



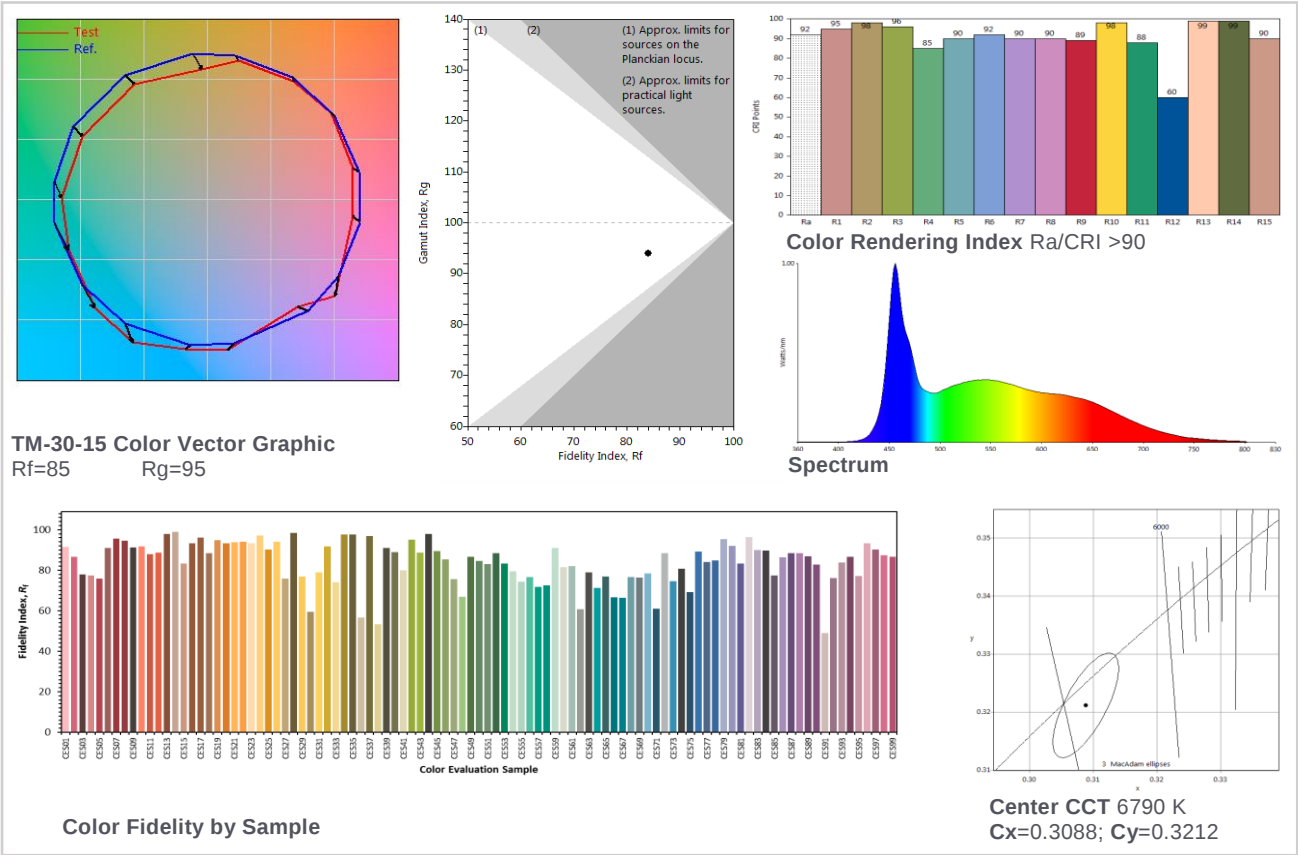
LFD400S-G1-935



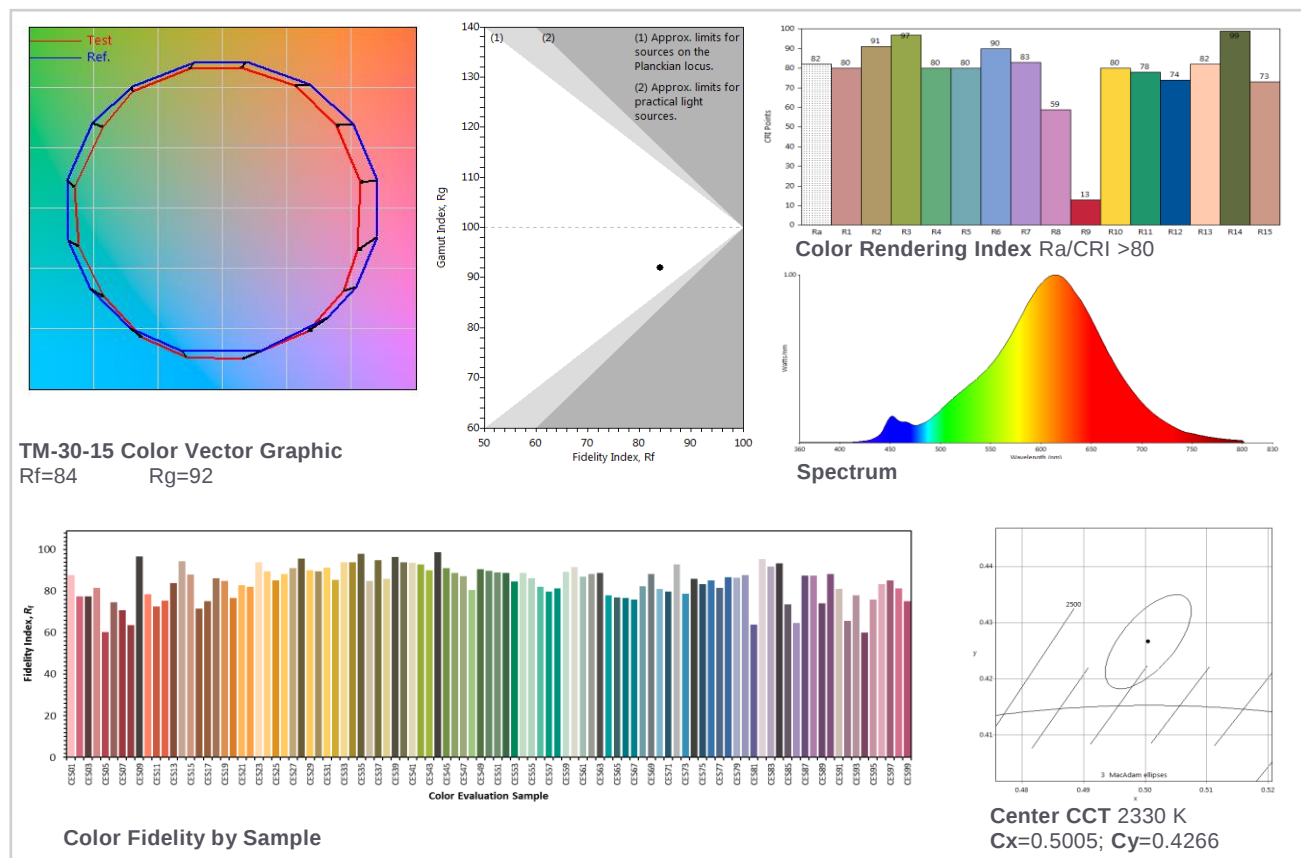
LFD400S-G1-940



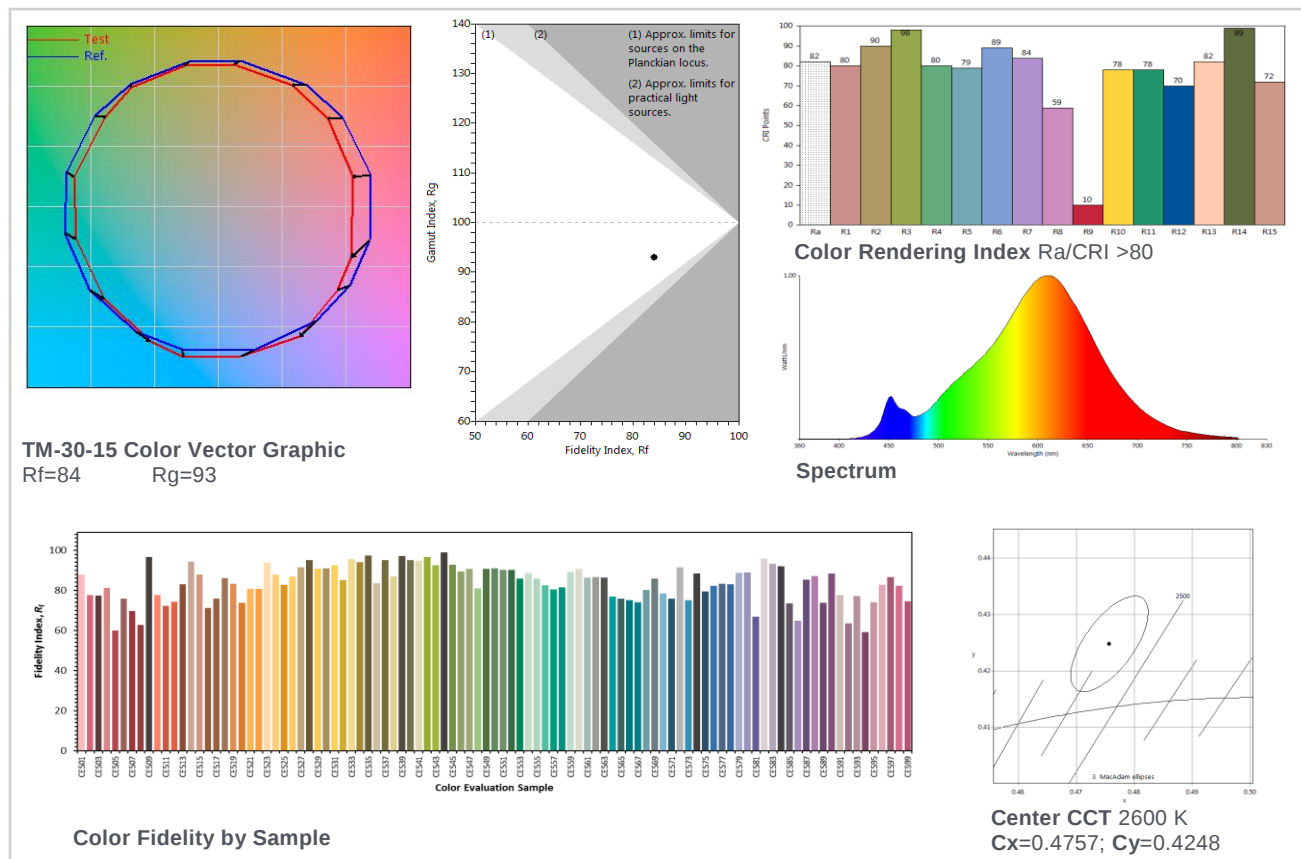
LFD400S-G1-965



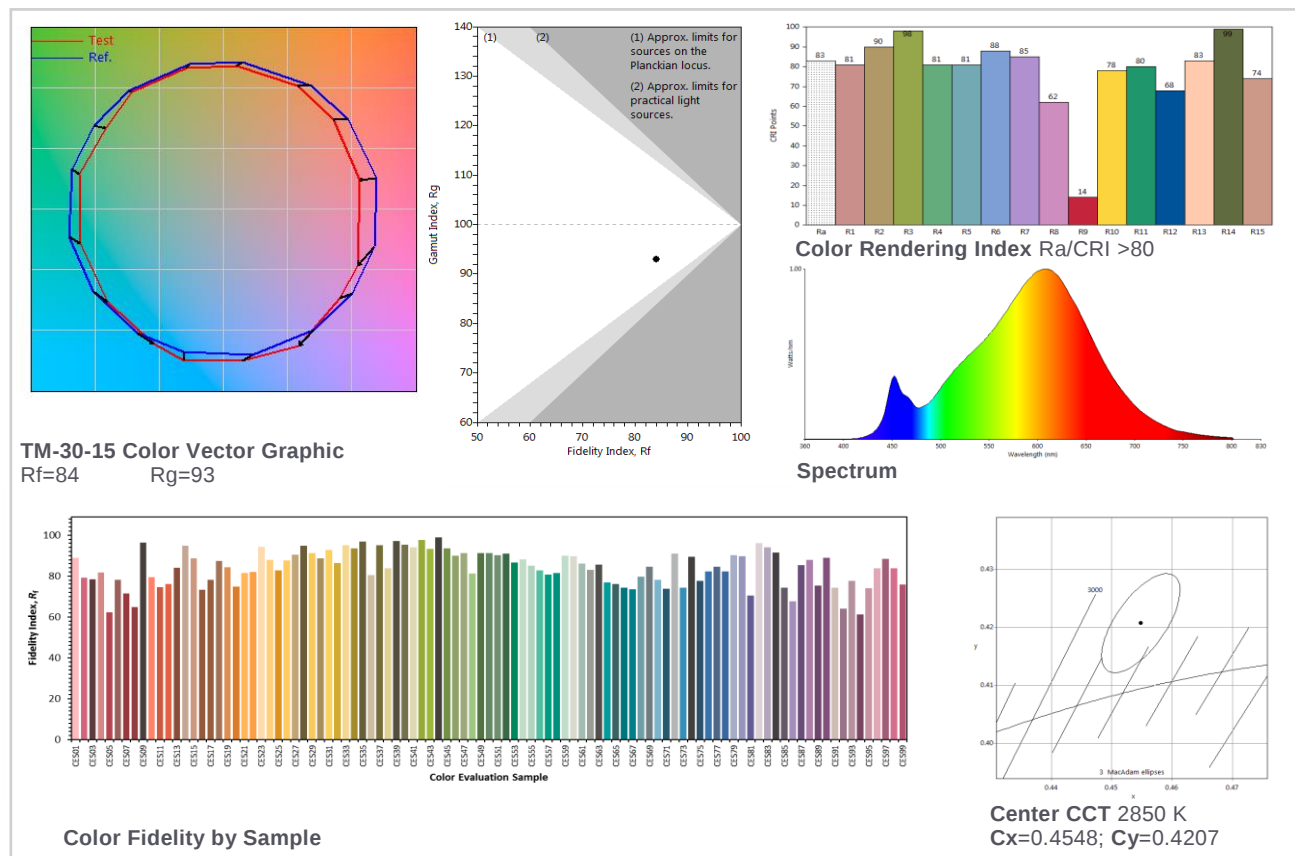
LFD600S-G1-824



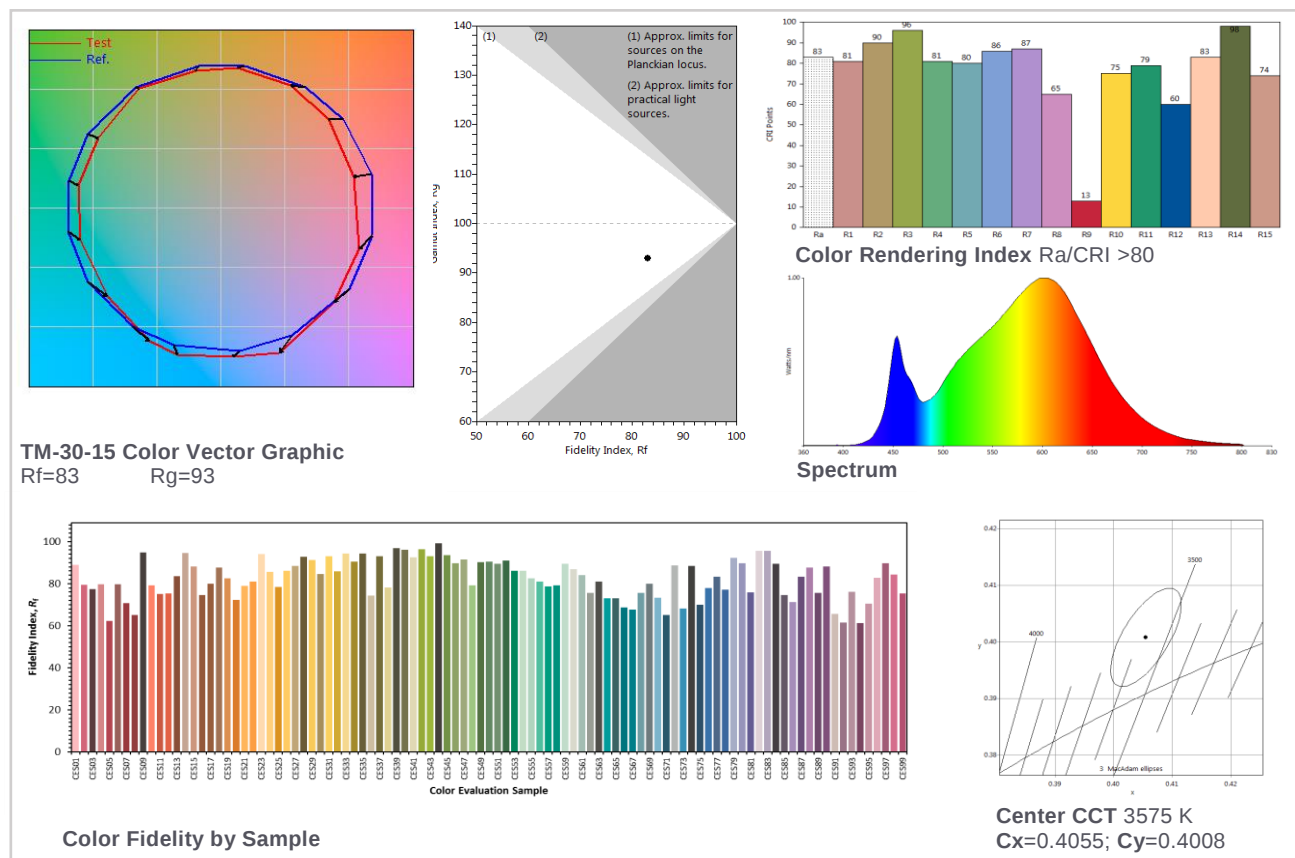
LFD600S-G1-827



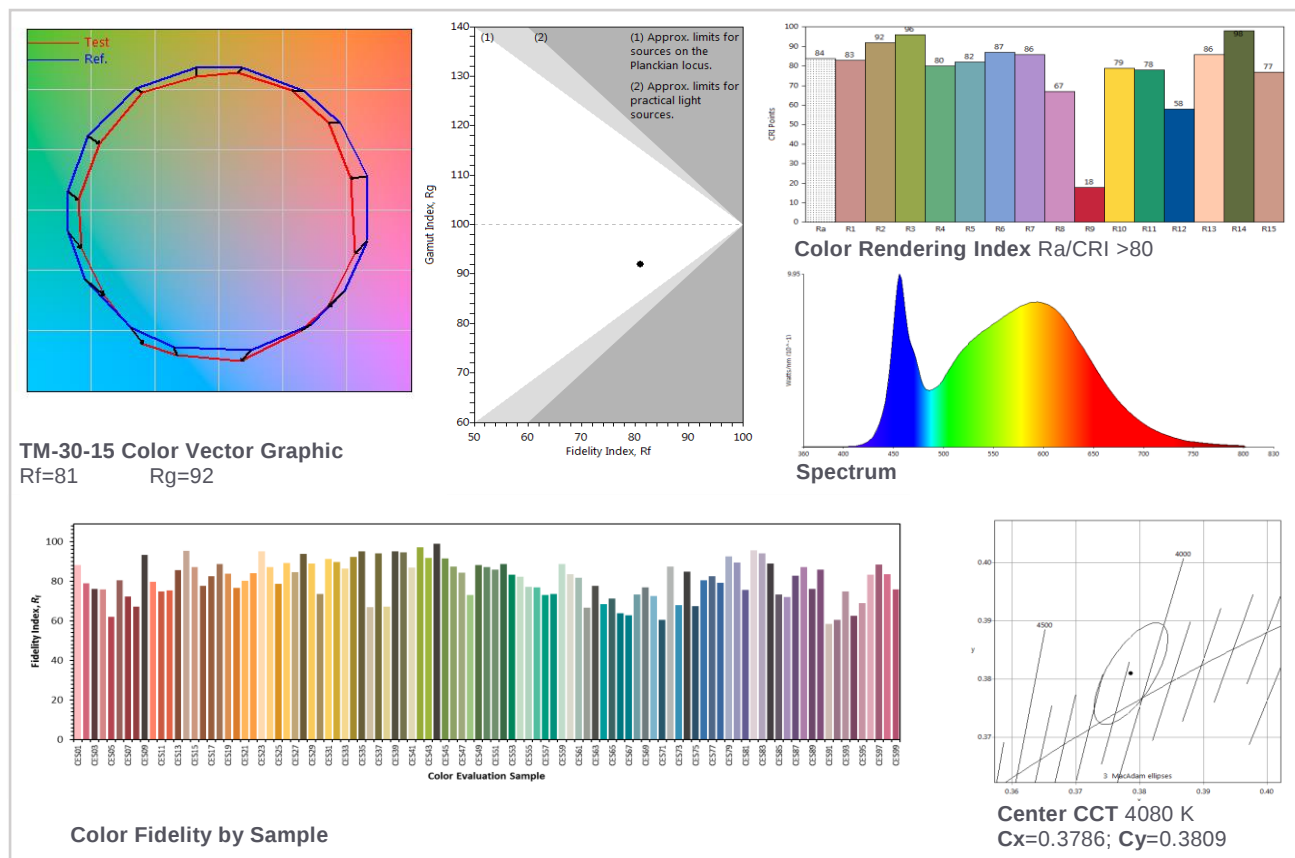
LFD600S-G1-830



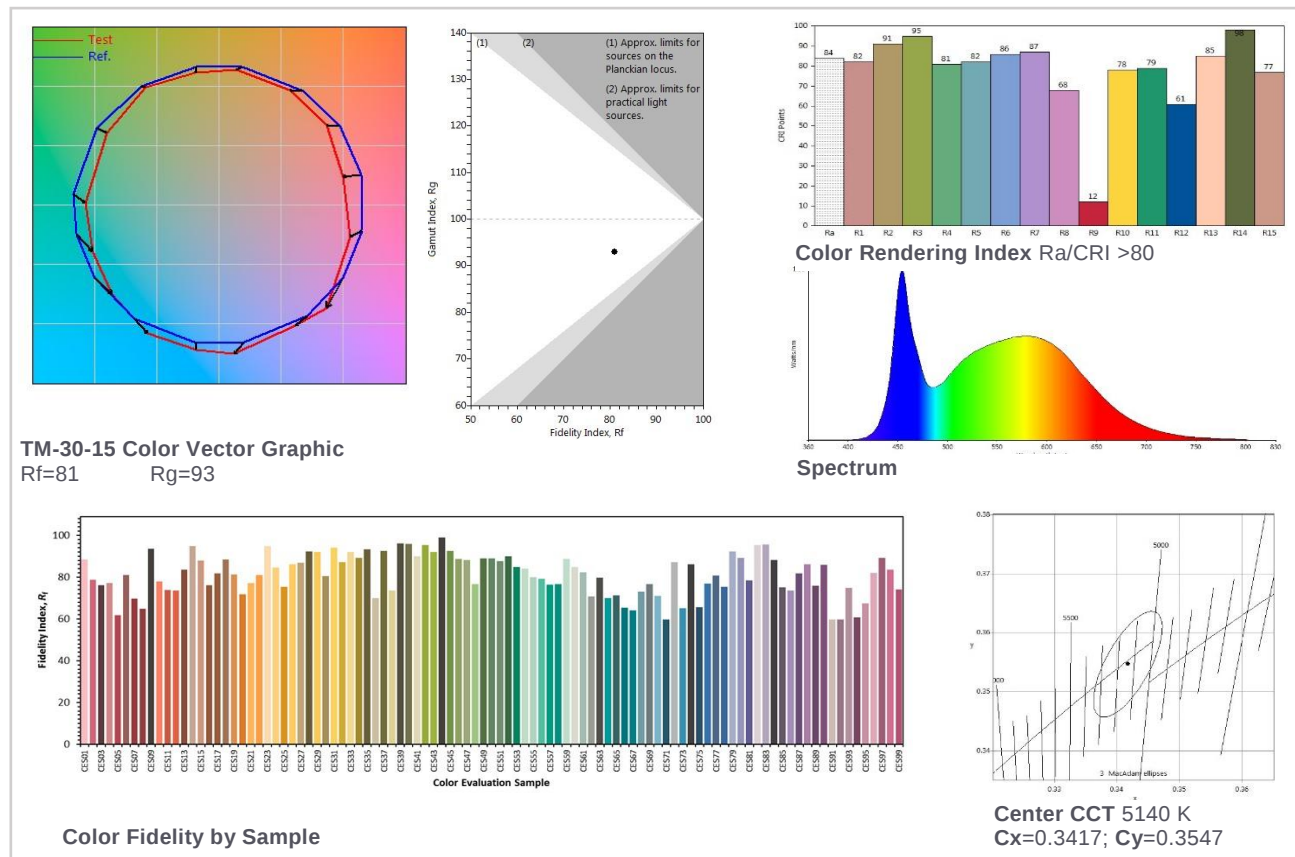
LFD600S-G1-835



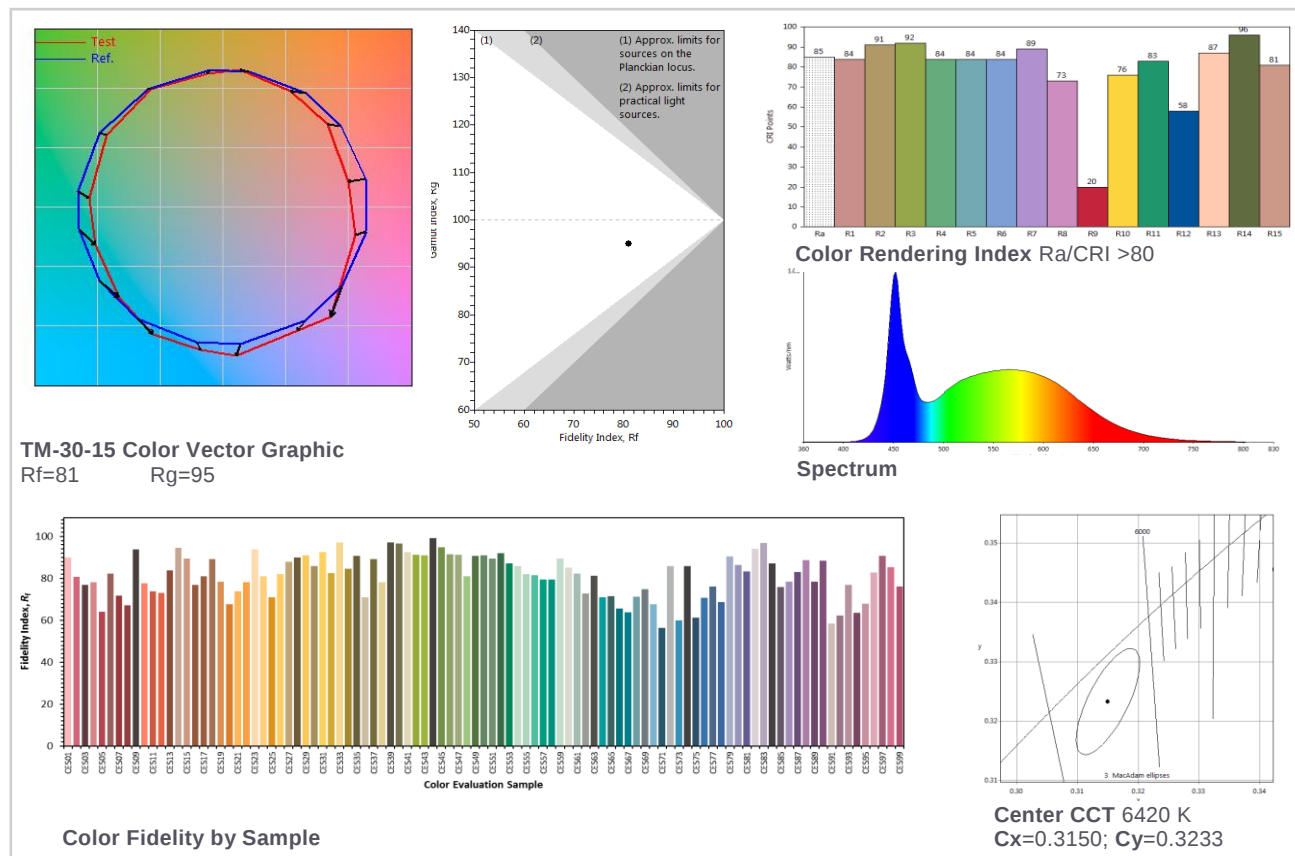
LFD600S-G1-840



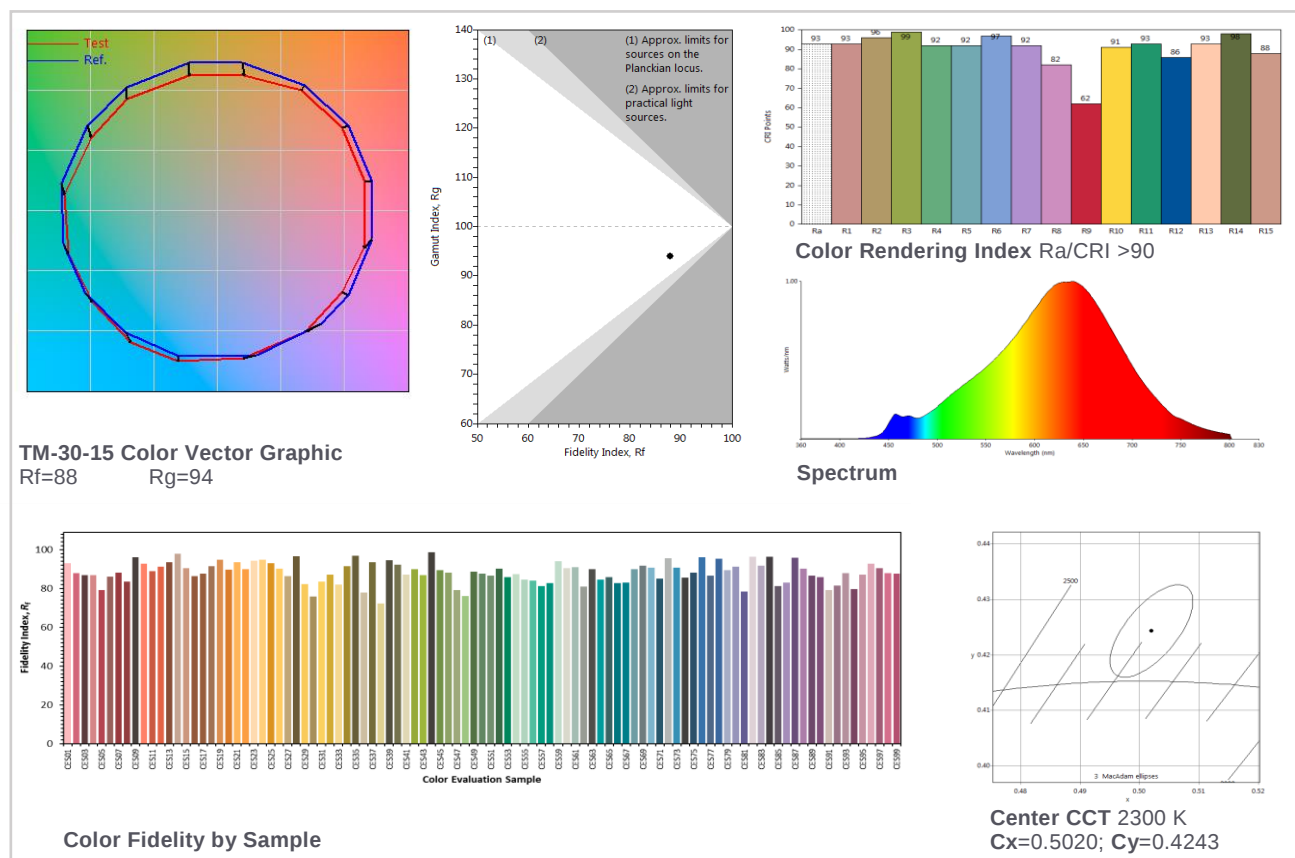
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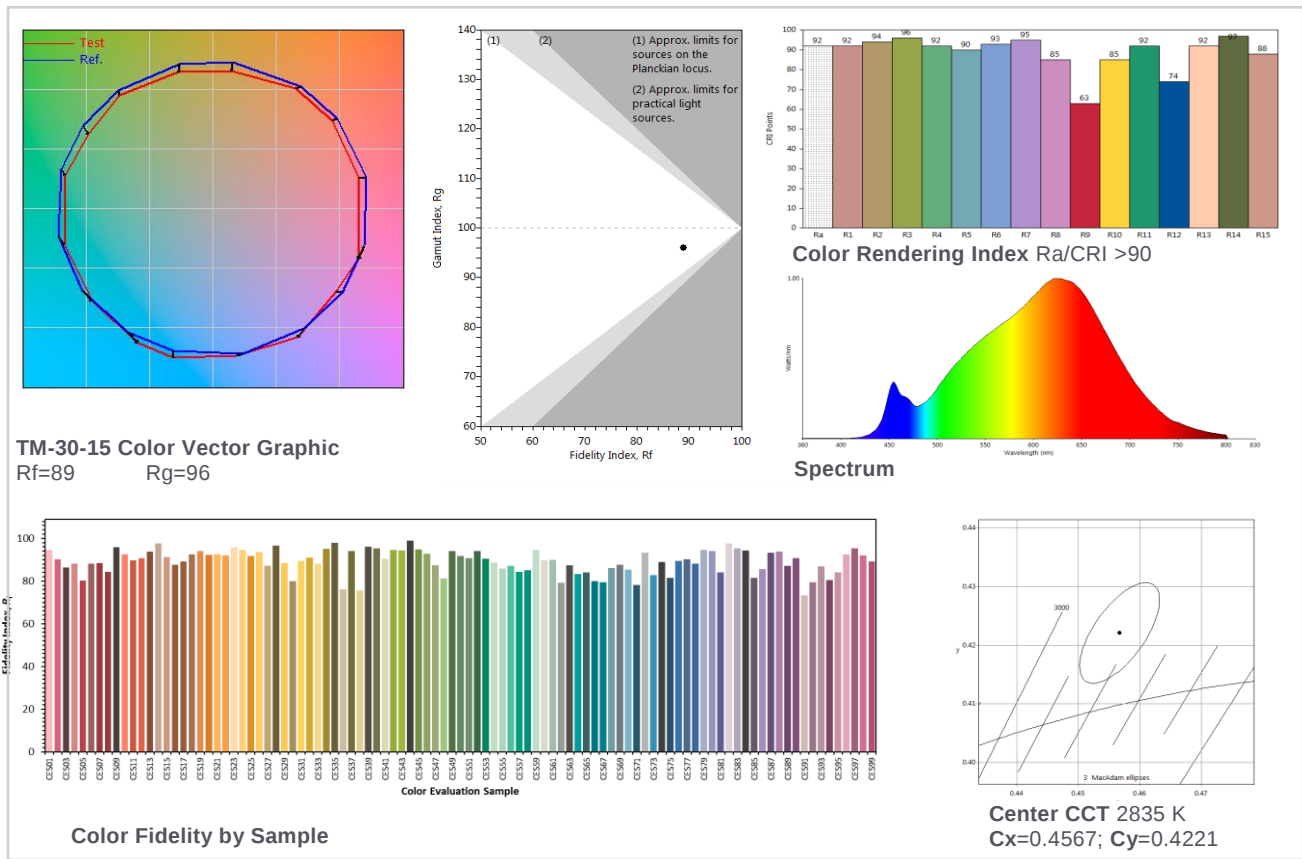
LFD600S-G1-865



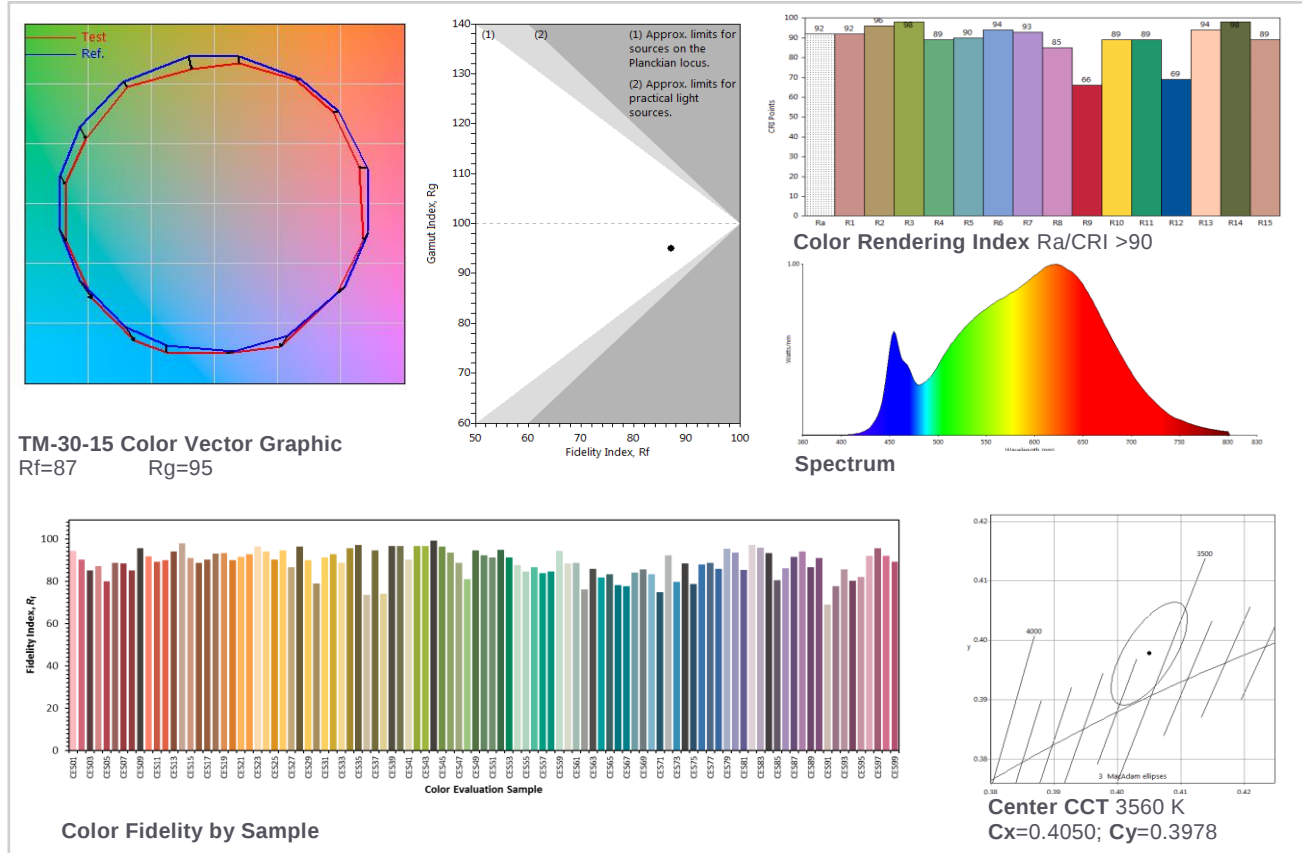
LFD600S-G1-924



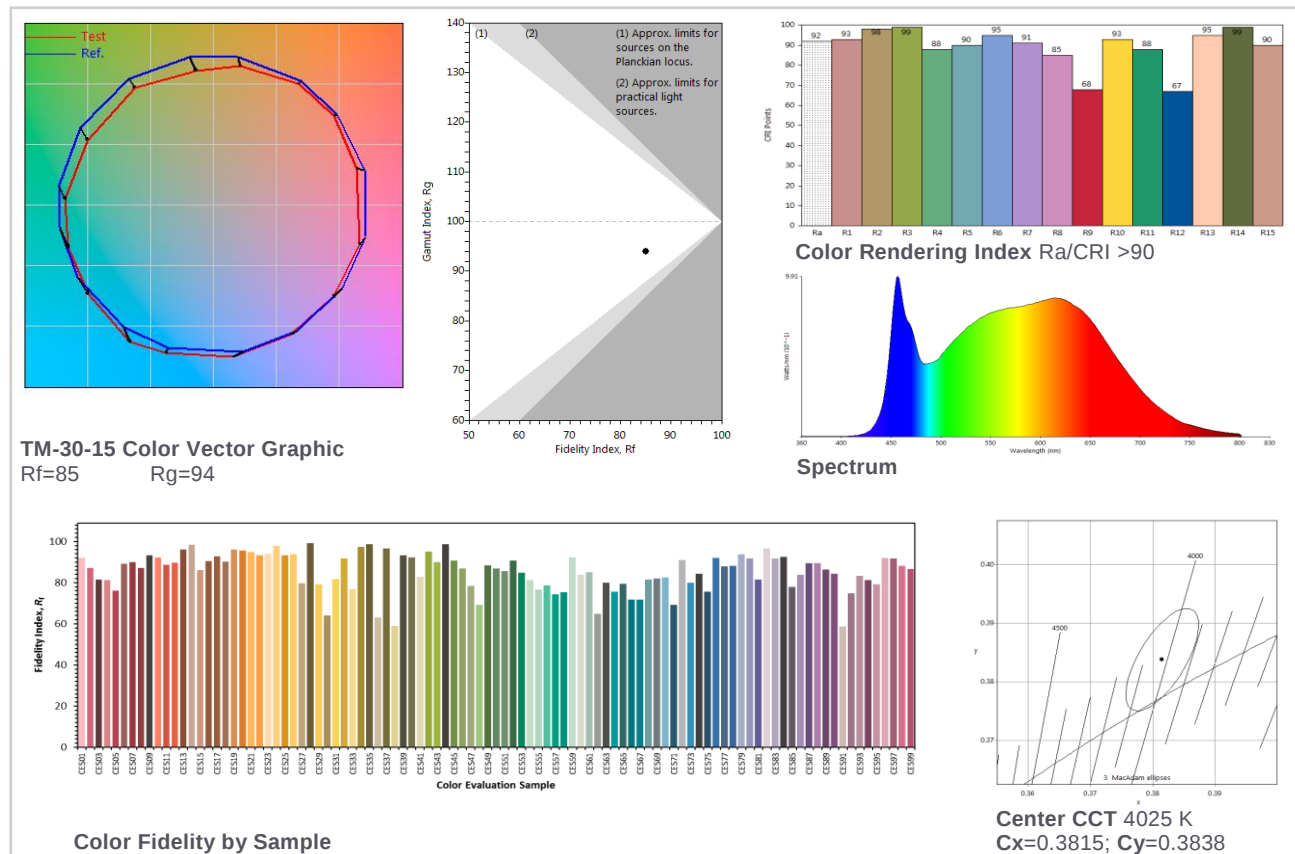
LFD600S-G1-930



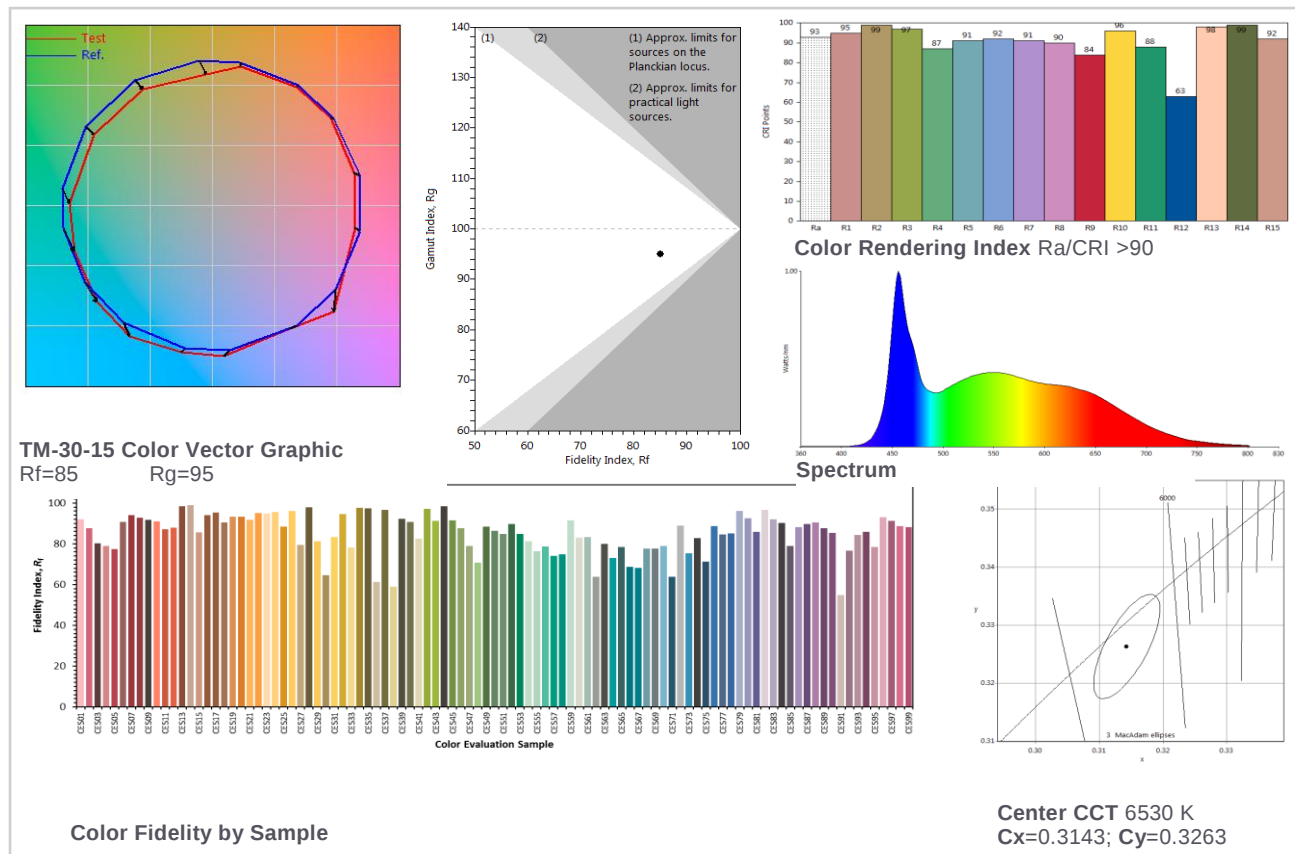
LFD600S-G1-935

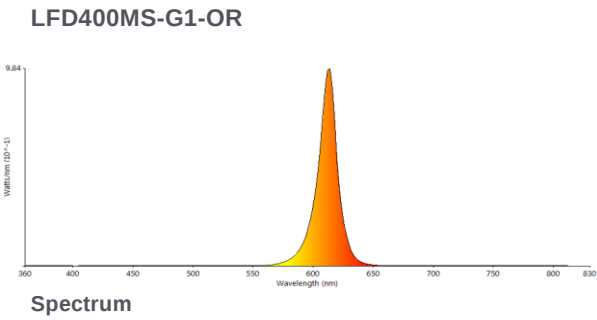
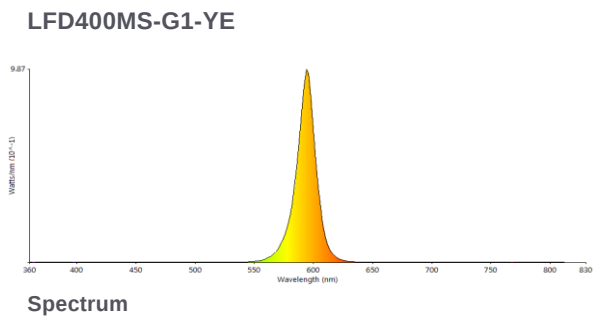
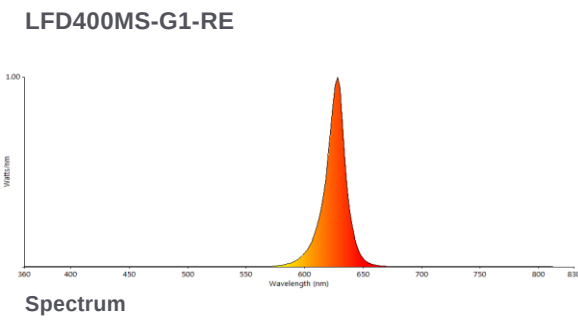
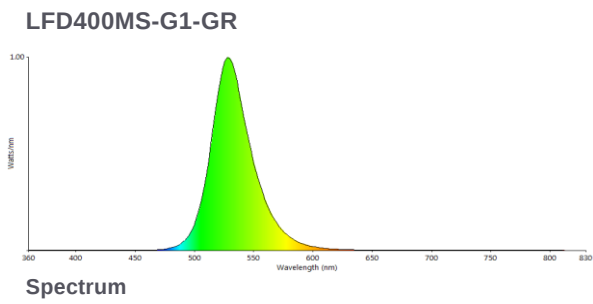
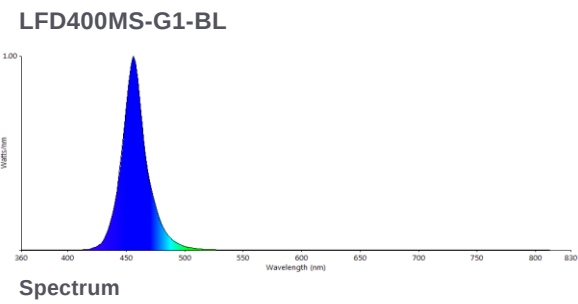


LFD600S-G1-940



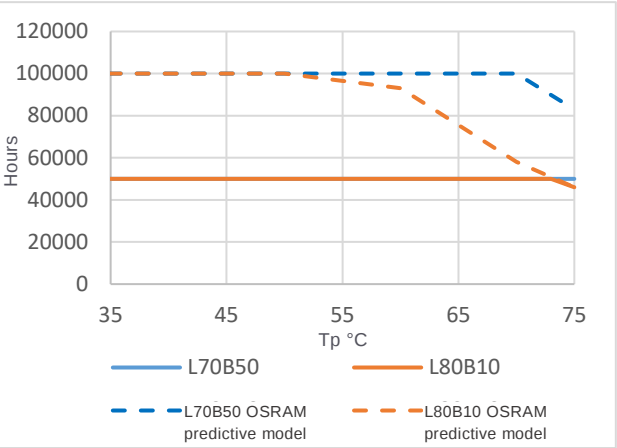
LFD600S-G1-965



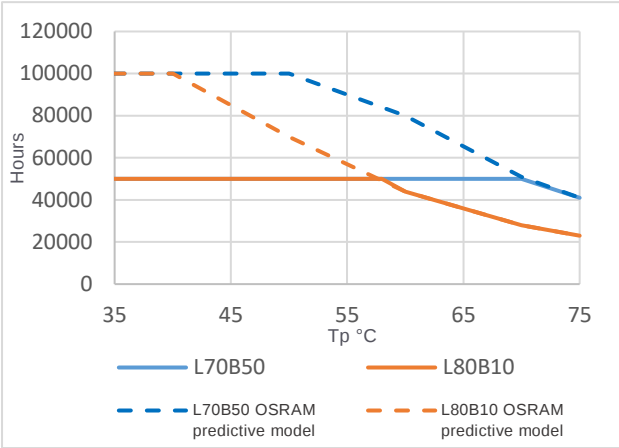


Lifetime

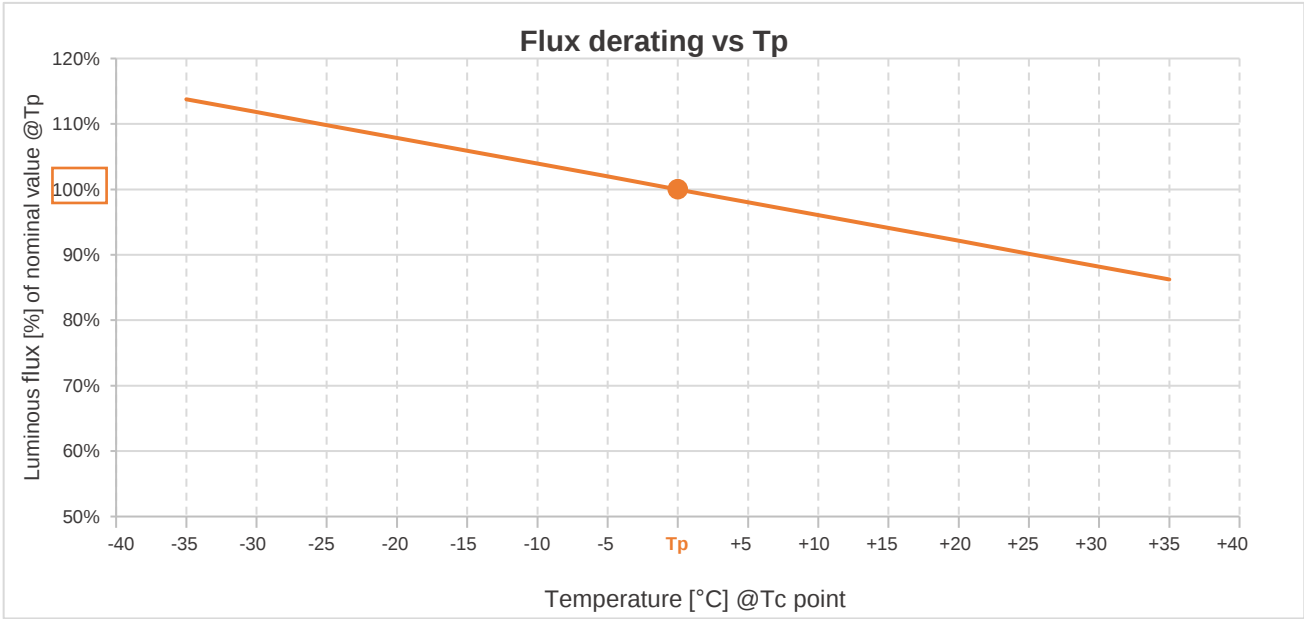
LFD400S/LFD400MS



LFD600S



Luminous Flux maintenance according to Tp 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-G1-930-06	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-G1-930-06	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
LFD400MS-G1-BL-06	4052899953659	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400MS-G1-GR-06	4052899953666	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400MS-G1-RE-06	4052899953680	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400MS-G1-YE-06	4052899953697	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400MS-G1-OR-06	4052899450882	6000 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

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

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 Tc of LED strip is the maximum allowed.

 THERMAL MEASUREMENTS FOR SURFACE MOUNTING				
			LFD400S/LFD400MS	LFD600S
Profile Type	Product description	Product code (EAN)	Ambient Temperature °C	
 Side profile	FX-LFDM -G1-TS-16H16-200	4052899544925	50	40
Without any profile			47	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 Tc of LED strip is the maximum allowed.

 THERMAL MEASUREMENTS FOR SURFACE MOUNTING				
			LFD400S/LFD400MS	LFD600S
Profile Type	Product description	Product code (EAN)	Ambient Temperature °C	
 Side profile	FX-LFDM -G1-TS-16H16-200	4052899544925	45	33
Without any profile			41	31

Ambient temperature – operating considerations

Note: the table is for application evaluation only; always ensure that Tc does 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

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