

Light is OSRAM

OSRAM

LINEARlight FLEX® DIFFUSE Top

Homogeneous and uniform dot free light lines

LFD400/800T & LFD400MT



Features & Benefits

- Diffuse light lines without visible spots
- Luminous flux up to 810 lm/m
- IP66 & IP67 protection with high performance silicone
- Color uniformity ≤ 2 SDCM*
- Lifetime up to 60.000 hours L80B10 at Tp (White)
- Lifetime up to 50.000 hours 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

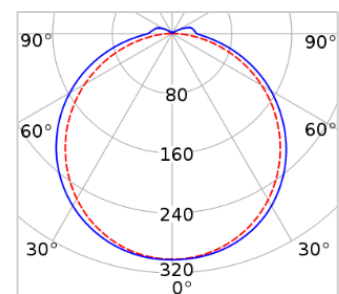
Architectural integration, Façade lighting, Cove lighting, Outdoor applications

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) 14.1 mm x (H) 10.8 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	



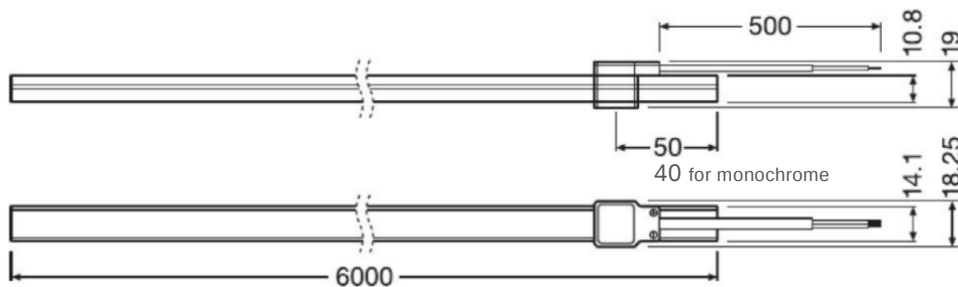
— C0-C180
- - C90-C270

cd/1000lm

Beam Angle: 120°

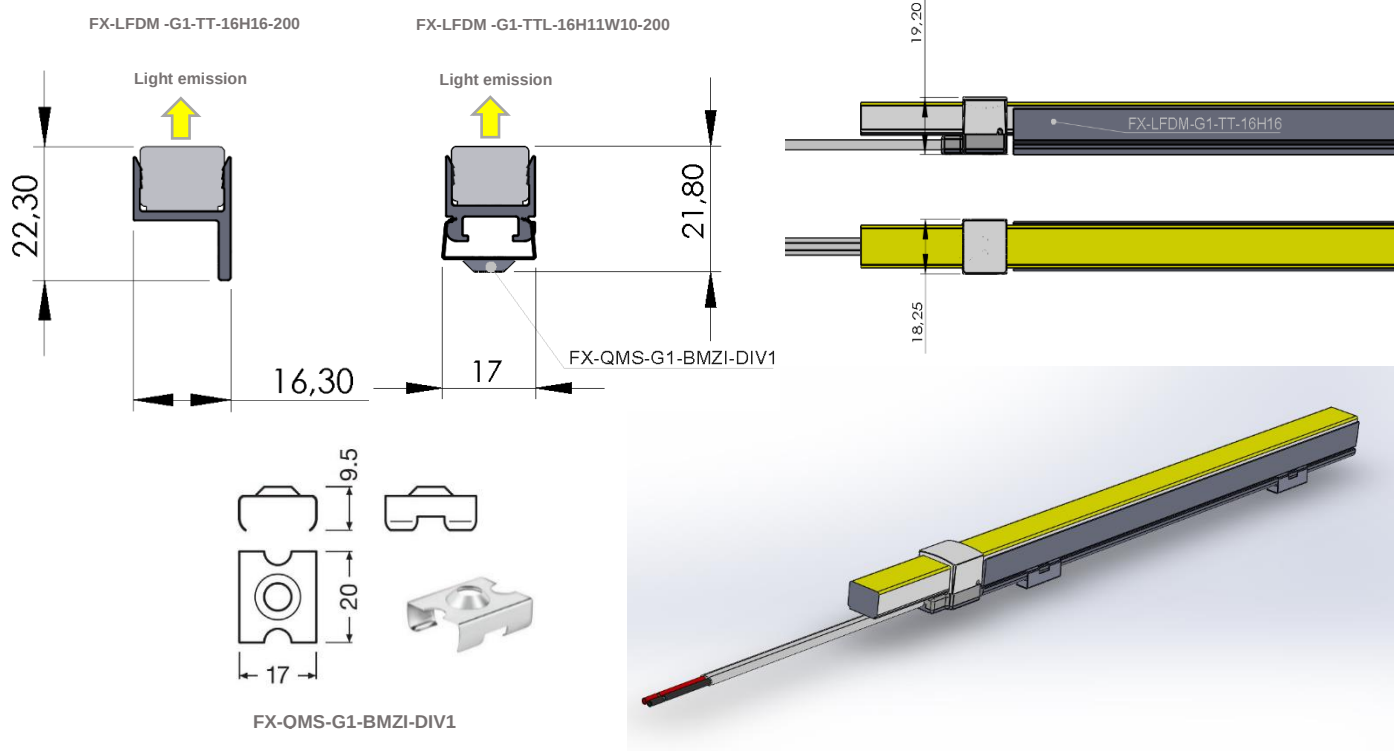
Mechanical data

LFD400 / LFD800 TOP



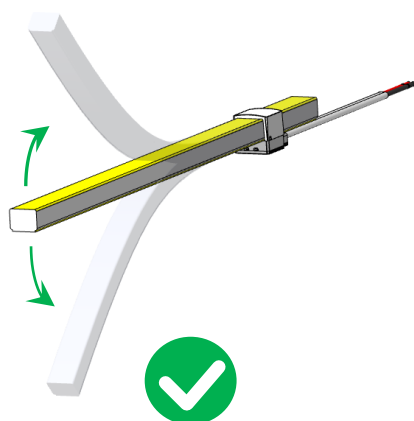
Min. bending radius = 100 mm
All dimensions in: mm

LFD400 / LFD800 TOP with optional accessories

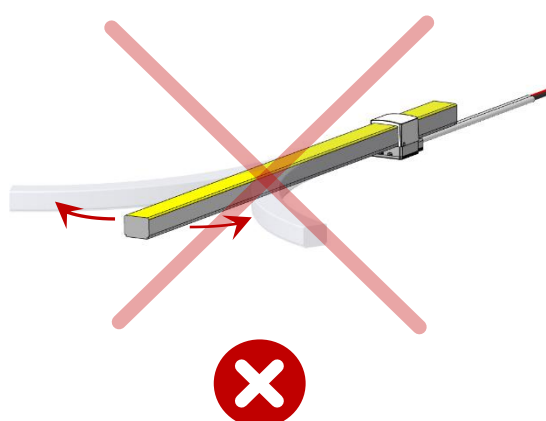


LFD400 / LFD800 TOP bending direction (yellow: light emitting surface)

Allowed:



NOT allowed:



Technical data

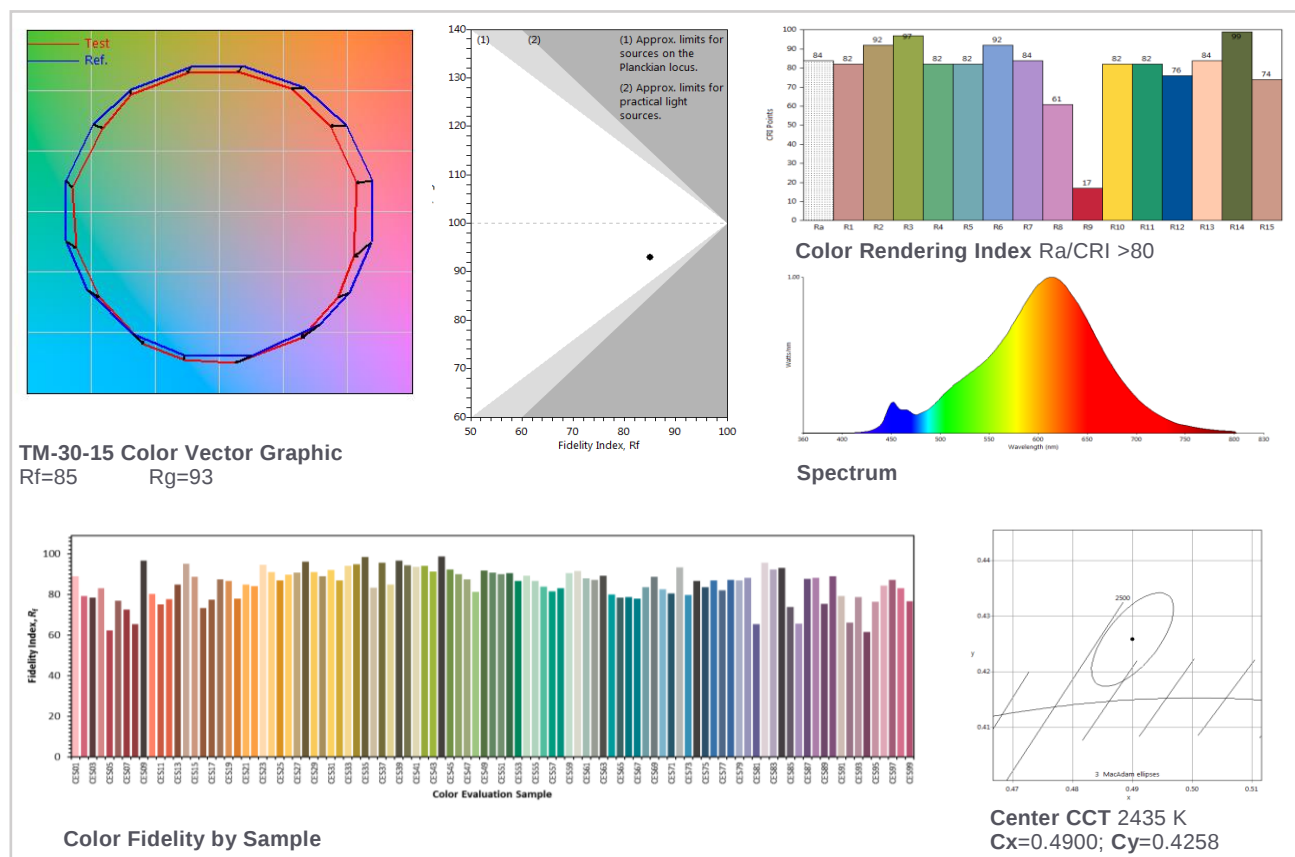
LFD400T White		Nominal CCT See color output data	CRI	Luminous Flux per meter lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LFD400T-G1-824-06		2400 K	>80	520	7.2	72	35	6
LFD400T-G1-827-06		2700 K	>80	540	7.2	75	35	6
LFD400T-G1-830-06		3000 K	>80	540	7.2	75	35	6
LFD400T-G1-835-06		3500 K	>80	540	7.2	75	35	6
LFD400T-G1-840-06		4000 K	>80	540	7.2	75	35	6
LFD400T-G1-850-06		6500 K	>80	510	7.2	71	35	6
LFD400T-G1-865-06		6500 K	>80	500	7.2	69	35	6
LFD400T-G1-924-06		2400 K	>90	420	7.2	58	35	6
LFD400T-G1-930-06		3000 K	>90	480	7.2	67	35	6
LFD400T-G1-935-06		3500 K	>90	480	7.2	67	35	6
LFD400T-G1-940-06		4000 K	>90	480	7.2	67	35	6
LFD400T-G1-965-06		6500 K	>90	480	7.2	67	35	6

LFD800T 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
LFD800T-G1-824-06		2400 K	>80	780	11.5	68	50	6
LFD800T-G1-827-06		2700 K	>80	780	11.5	68	50	6
LFD800T-G1-830-06		3000 K	>80	810	11.5	70	50	6
LFD800T-G1-835-06		3500 K	>80	810	11.5	70	50	6
LFD800T-G1-840-06		4000 K	>80	810	11.5	70	50	6
LFD800T-G1-850-06		5000 K	>80	700	11.5	61	50	6
LFD800T-G1-865-06		6500 K	>80	700	11.5	61	50	6
LFD800T-G1-924-06		2400 K	>90	550	11.5	48	50	6
LFD800T-G1-930-06		3000 K	>90	680	11.5	59	50	6
LFD800T-G1-935-06		3500 K	>90	680	11.5	59	50	6
LFD800T-G1-940-06		4000 K	>90	680	11.5	59	50	6
LFD800T-G1-965-06		6500 K	>90	640	11.5	56	50	6

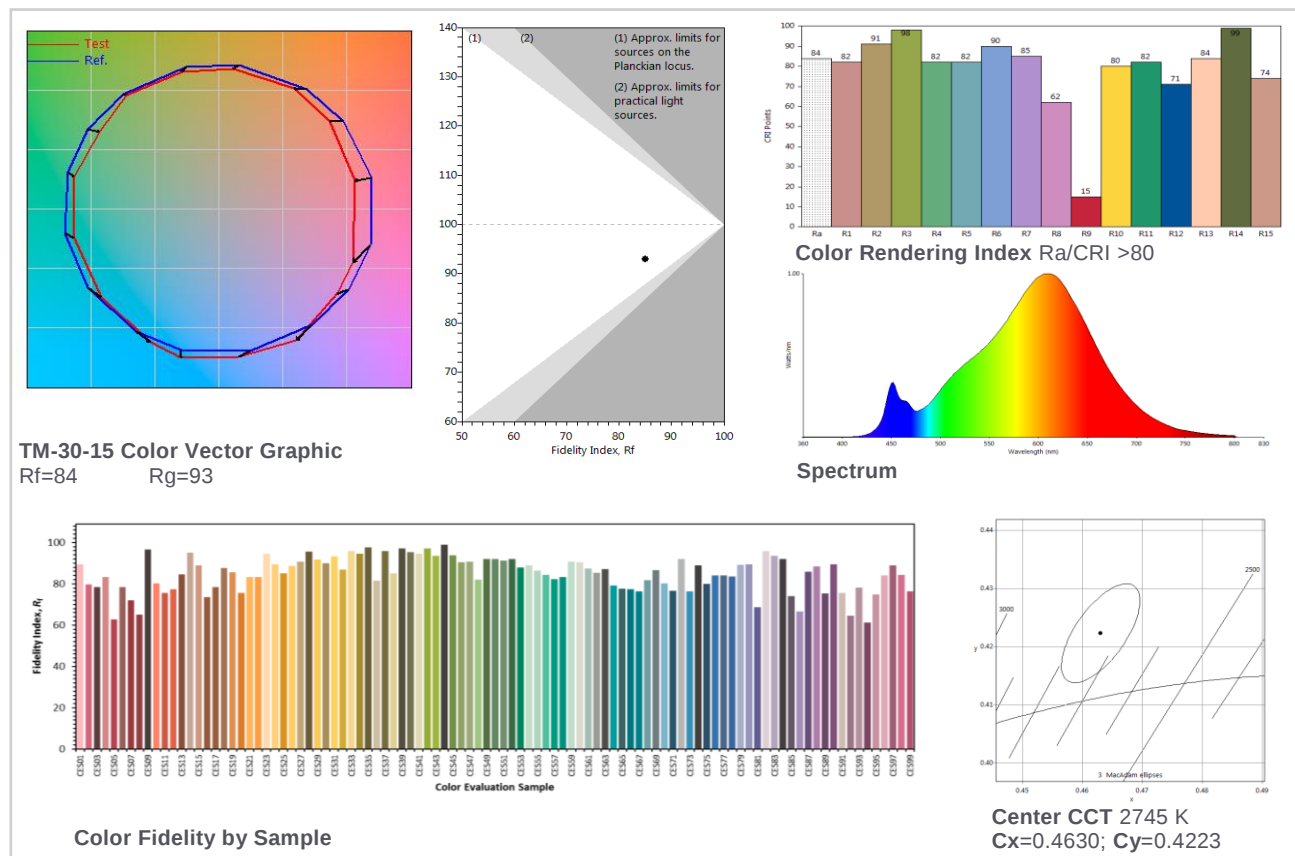
LFD400MT Monochrome		Color	Dom. λ nm	Luminous Flux per meter lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LFD400MT-G1-BL-06		Blue	457-467	60	12	5	32	6
LFD400MT-G1-GR-06		Green	525-539	285	12	24	32	6
LFD400MT-G1-RE-06		Red	612-626	320	12	27	32	6
LFD400MT-G1-YE-06		Yellow	586-594	162	12	14	32	6
LFD400MT-G1-OR-06		Orange	603-611	175	12	15	32	6

Color output data

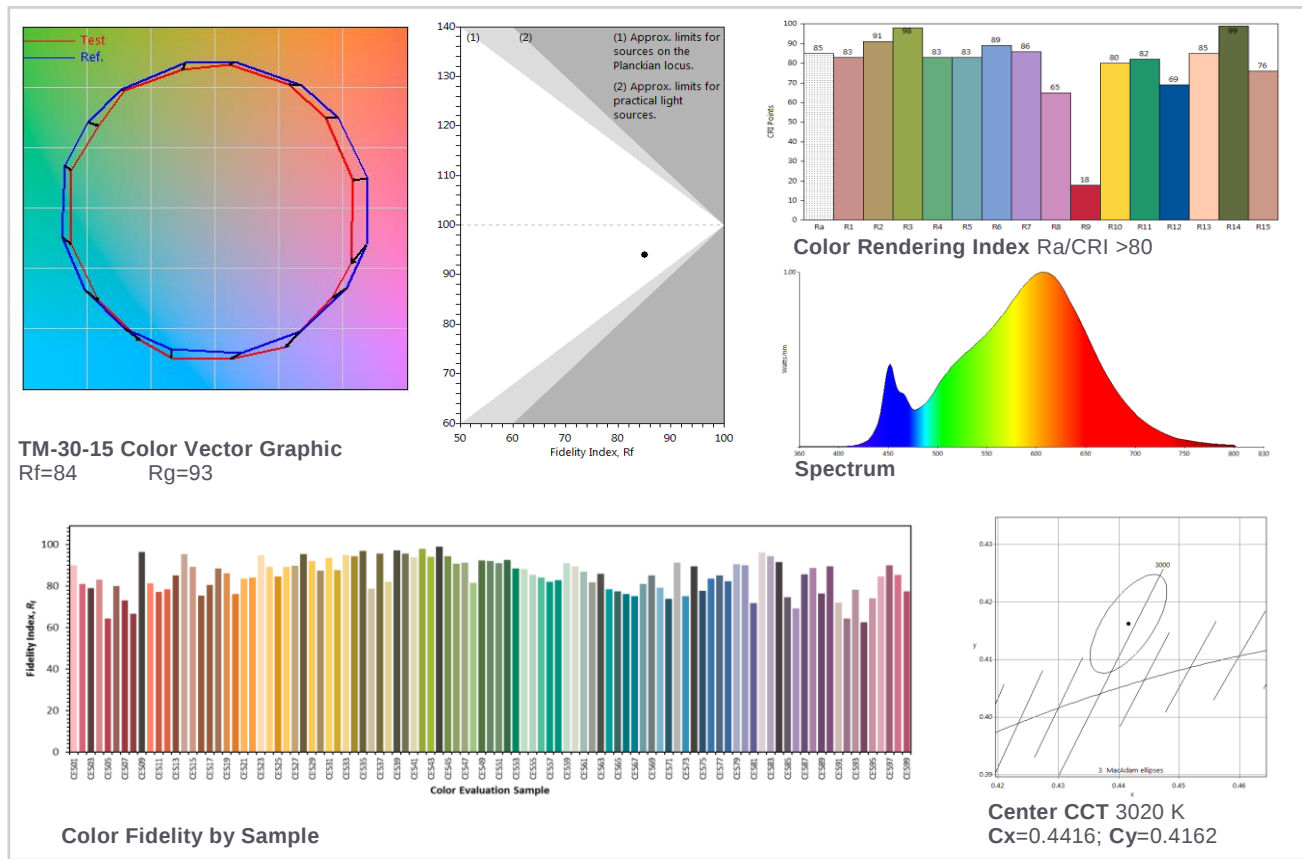
LFD400T-G1-824



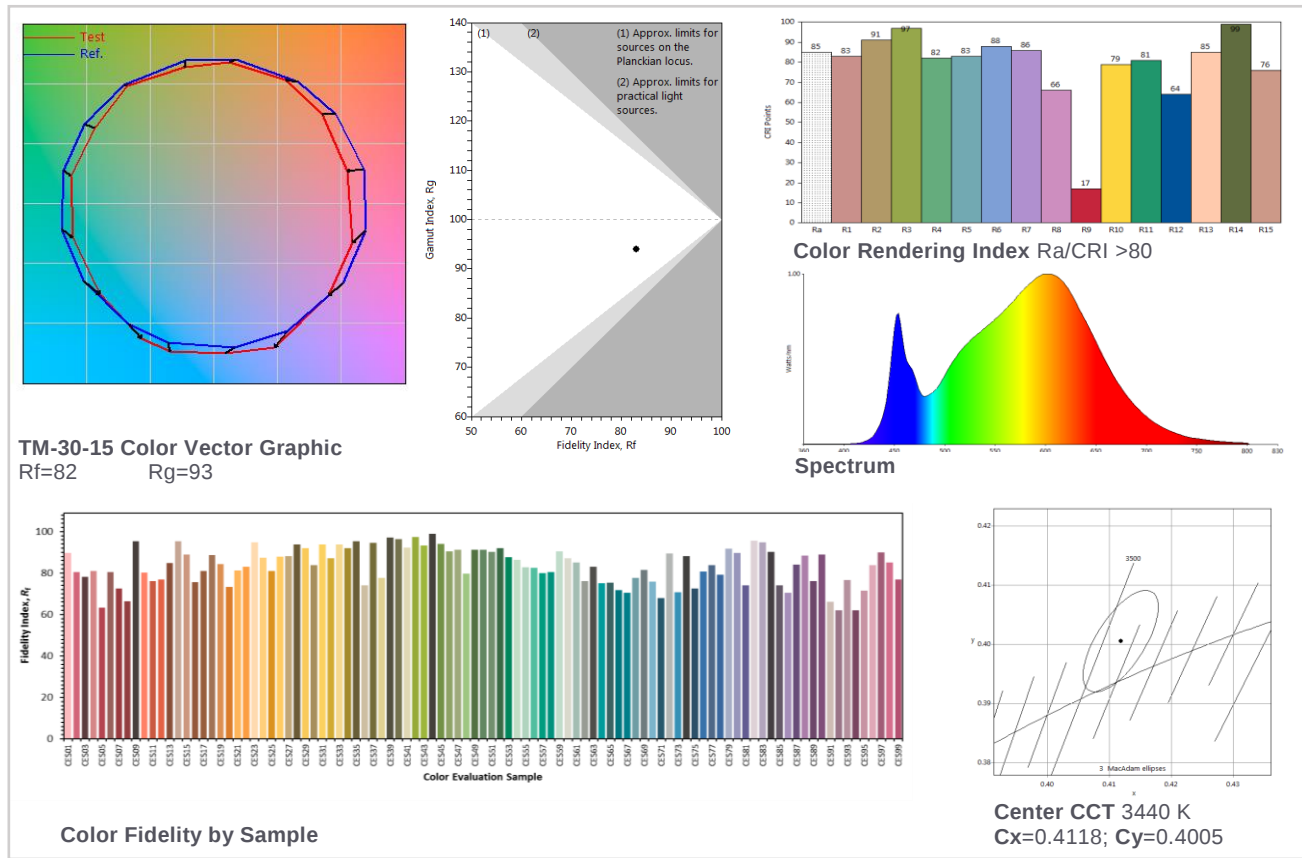
LFD400T-G1-827



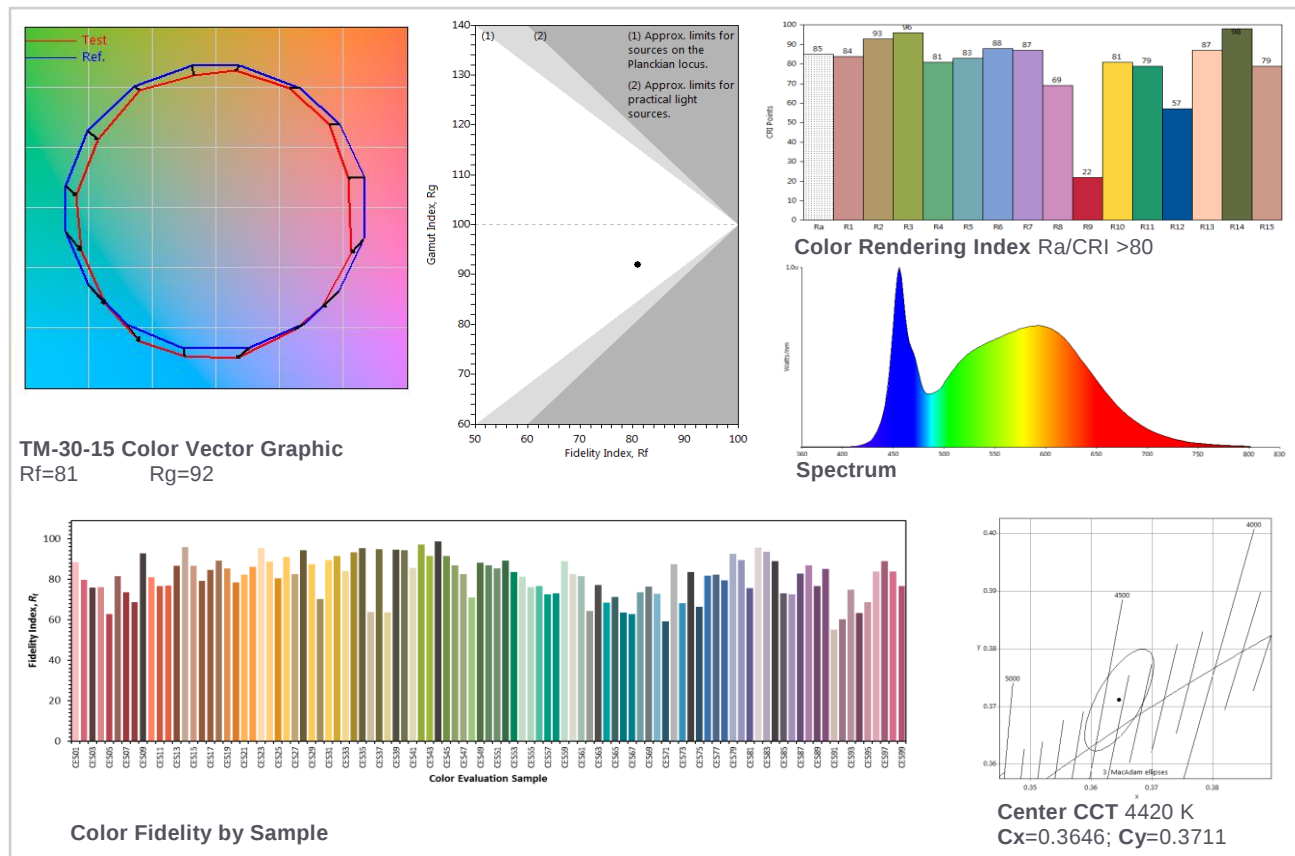
LFD400T-G1-830



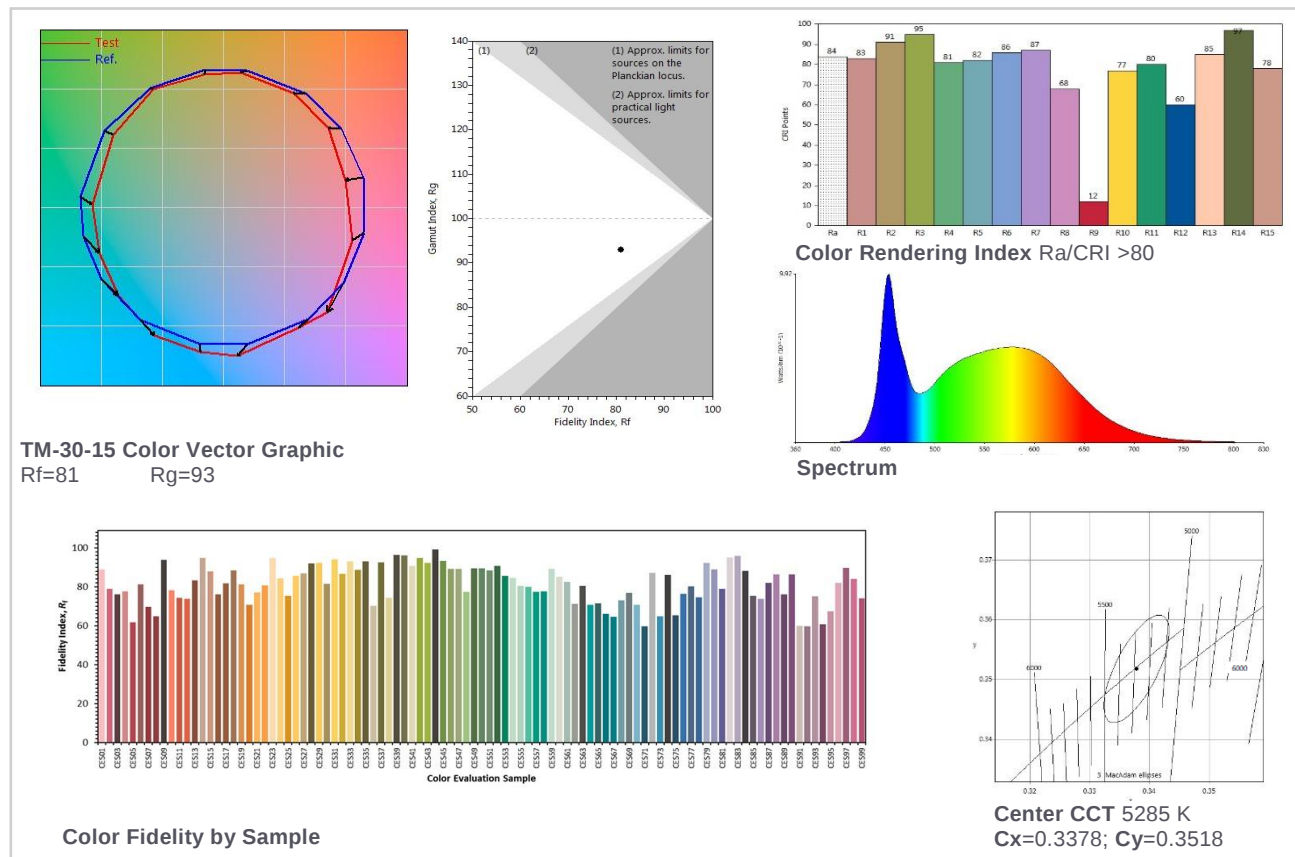
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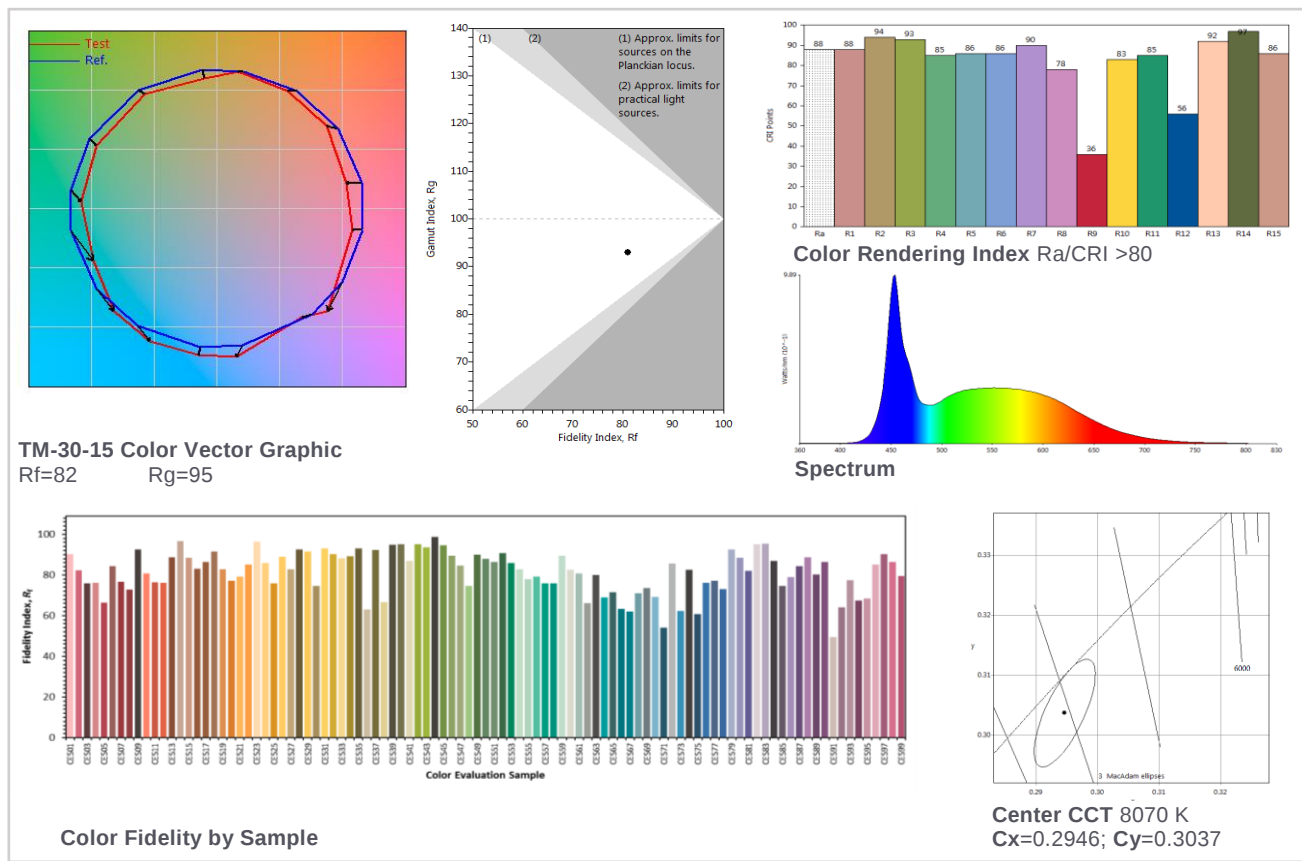
LFD400T-G1-840



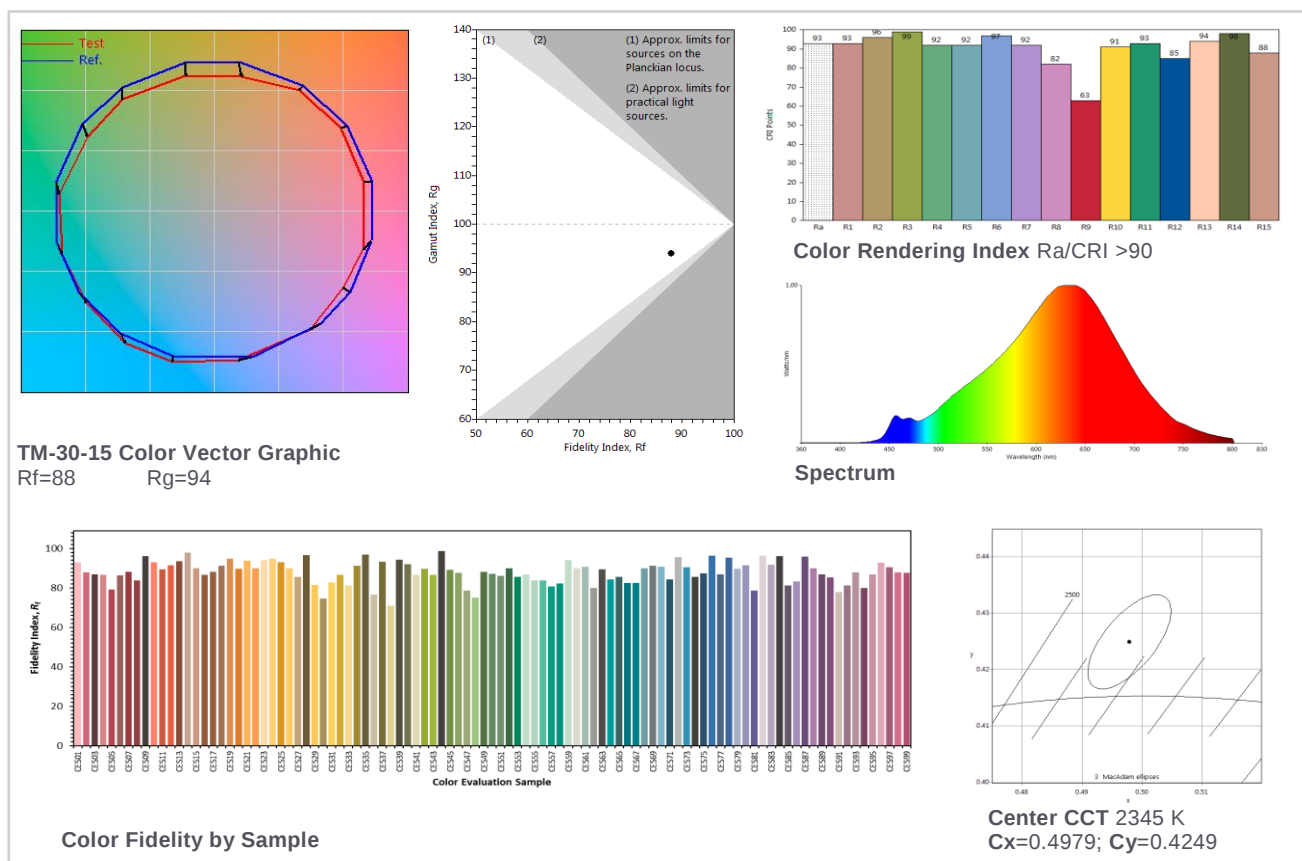
LFD400T-G1-850



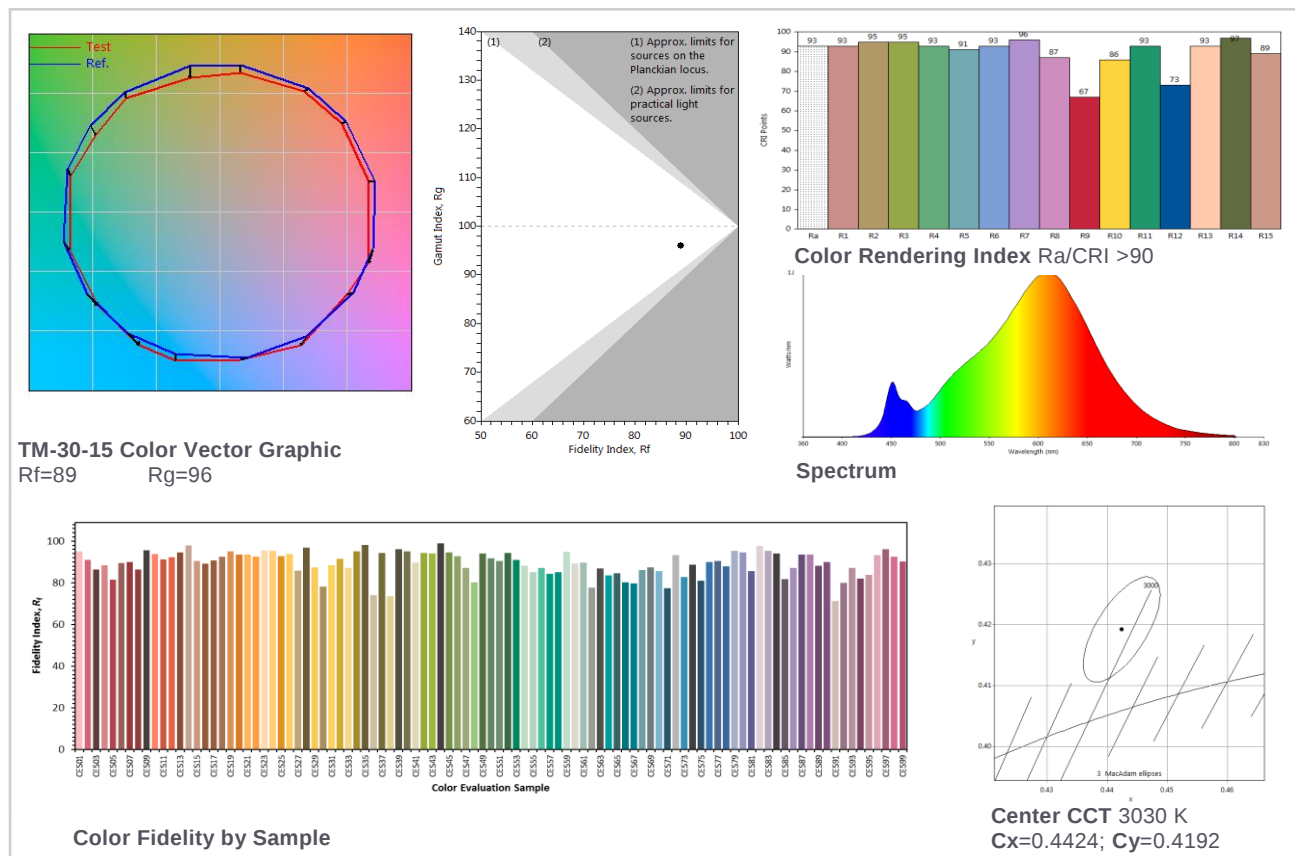
LFD400T-G1-865



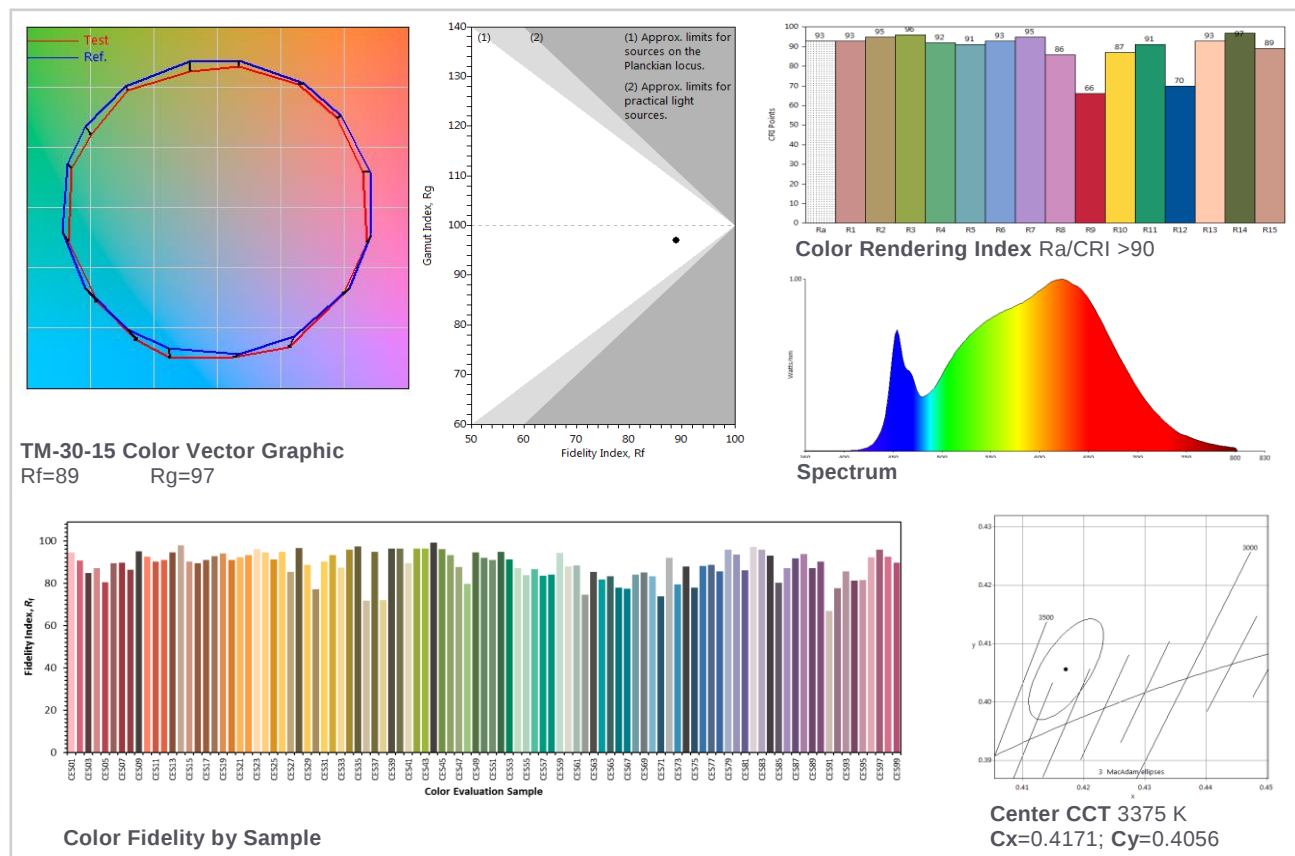
LFD400T-G1-924



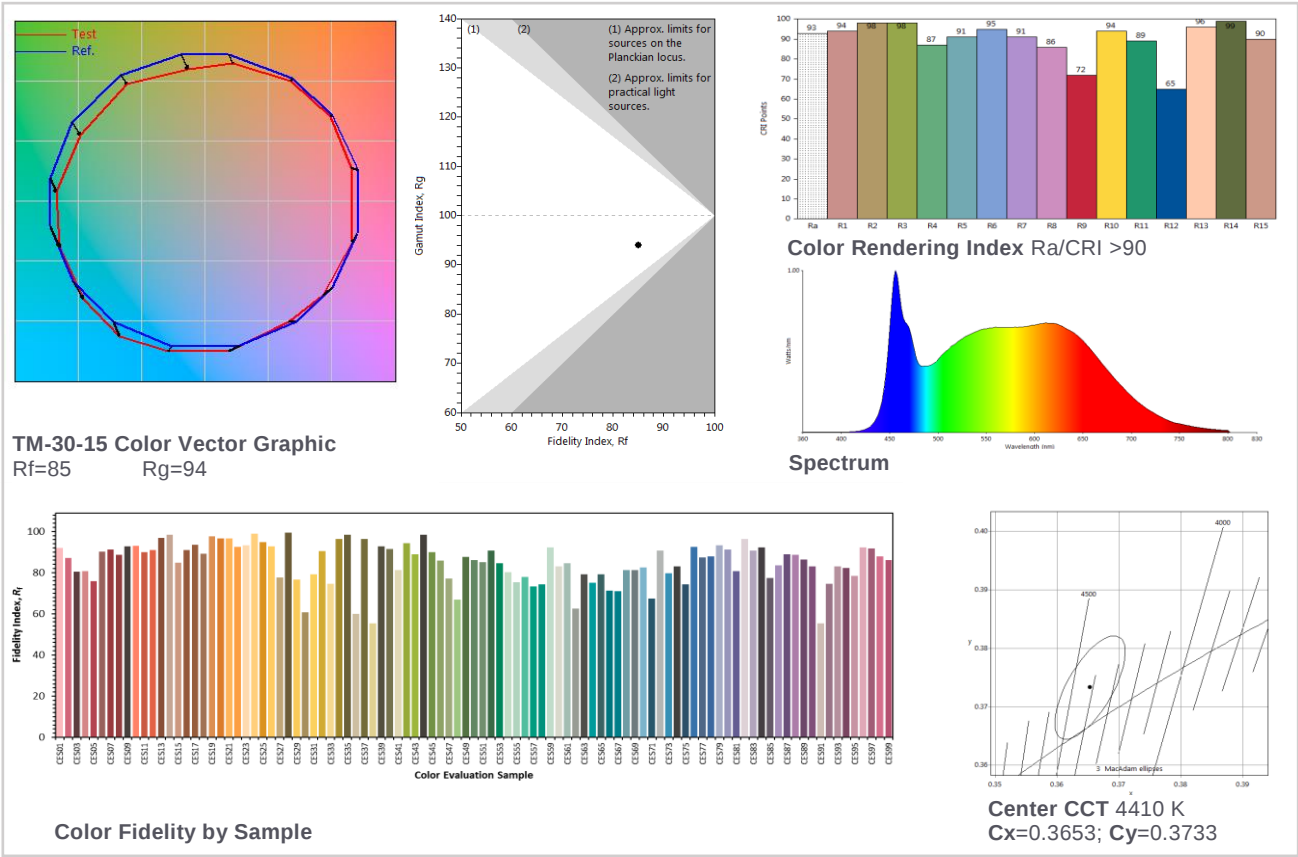
LFD400T-G1-930



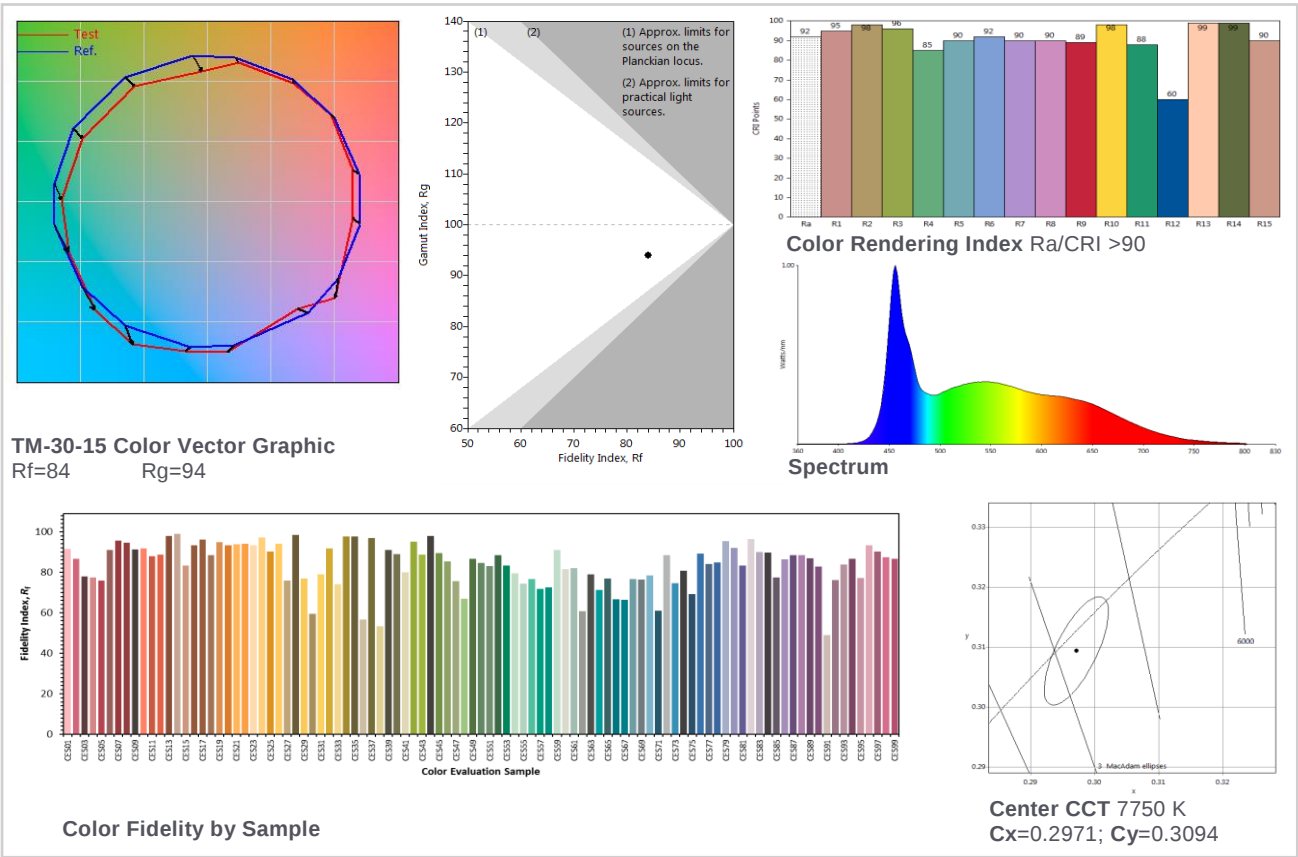
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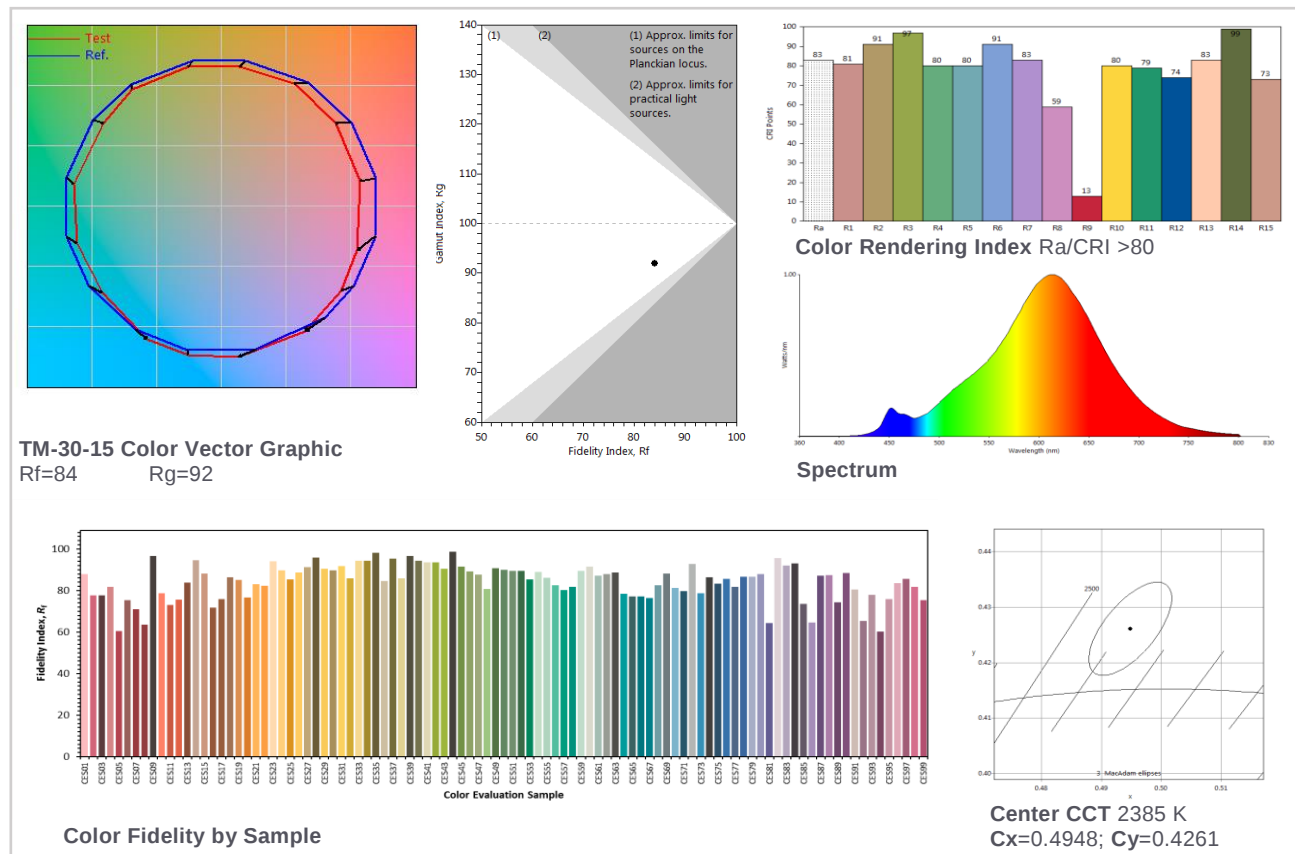
LFD400T-G1-940



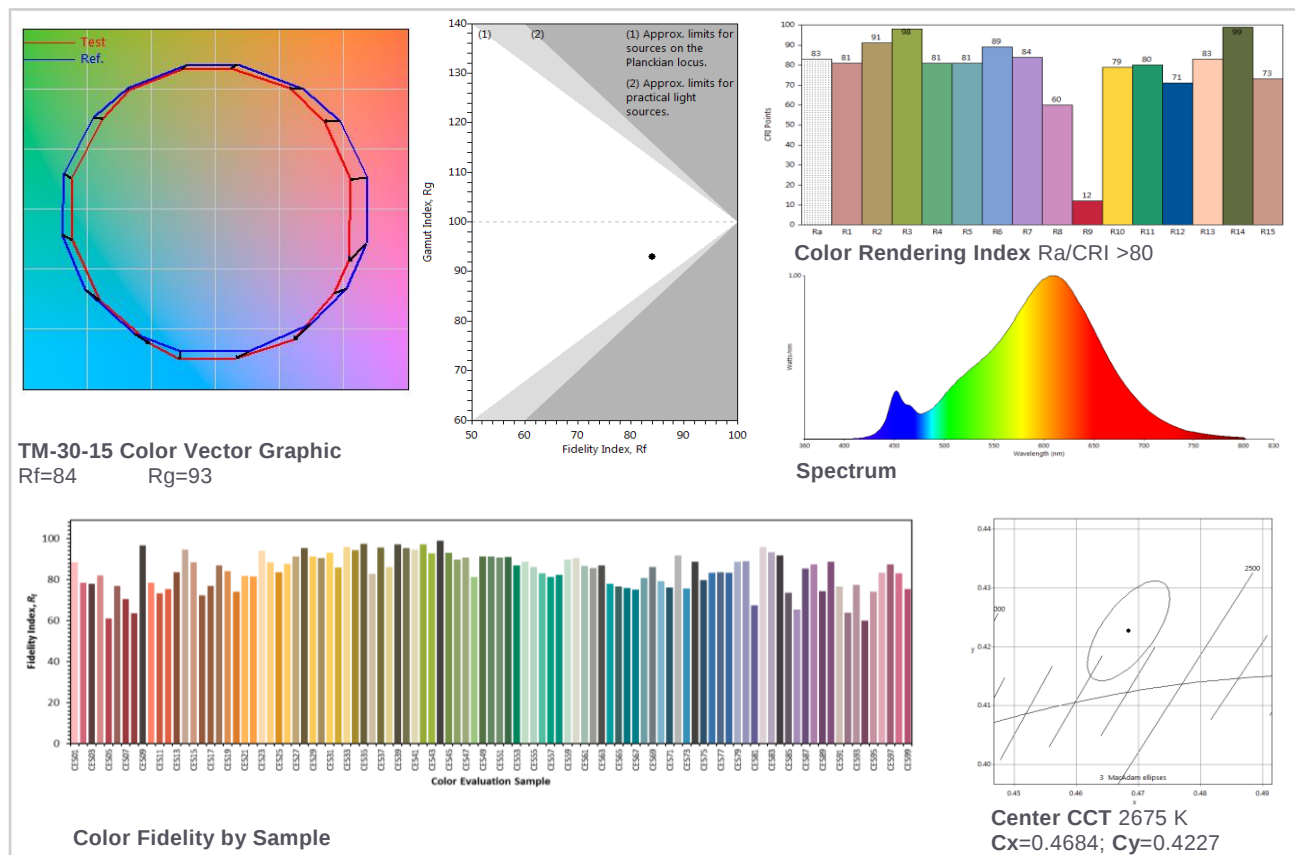
LFD400T-G1-965



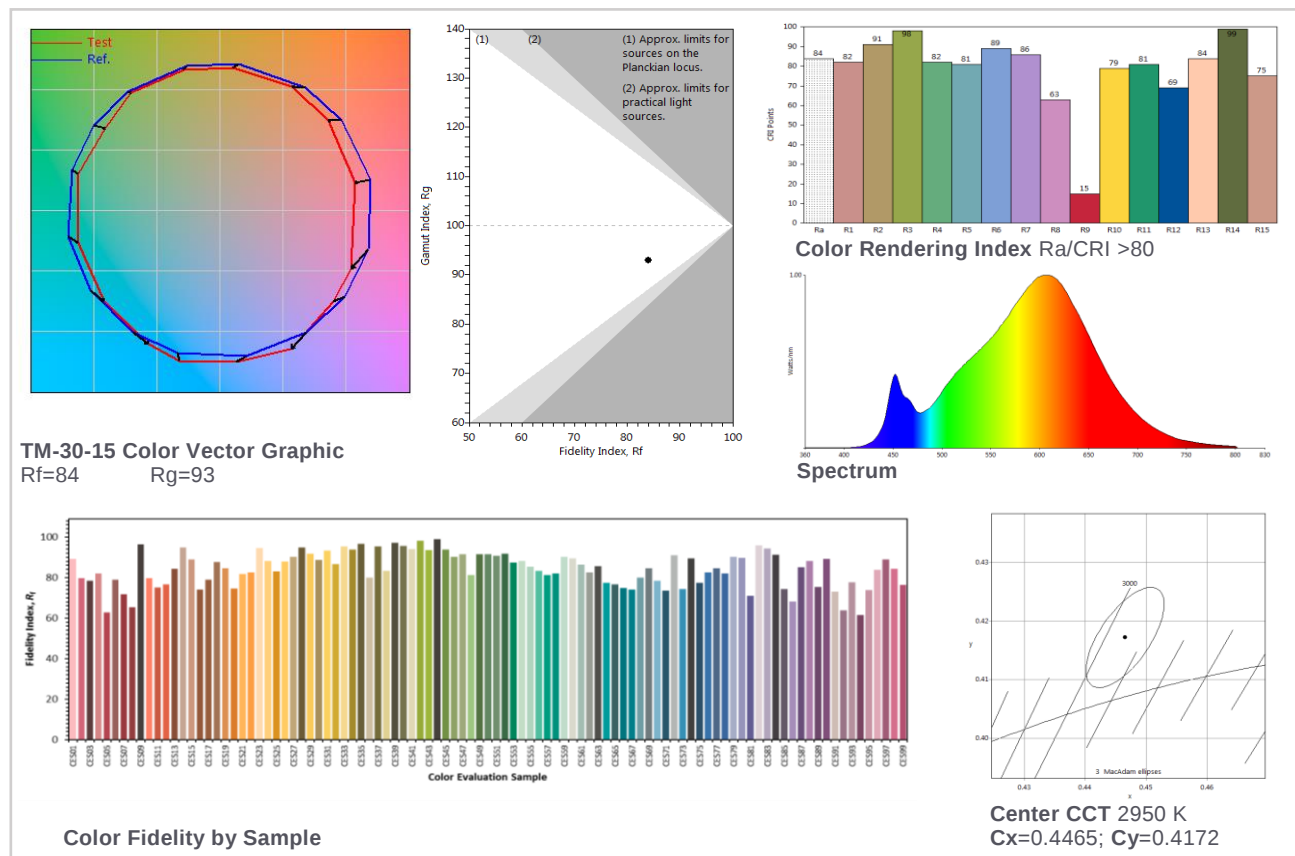
LFD800T-G1-824



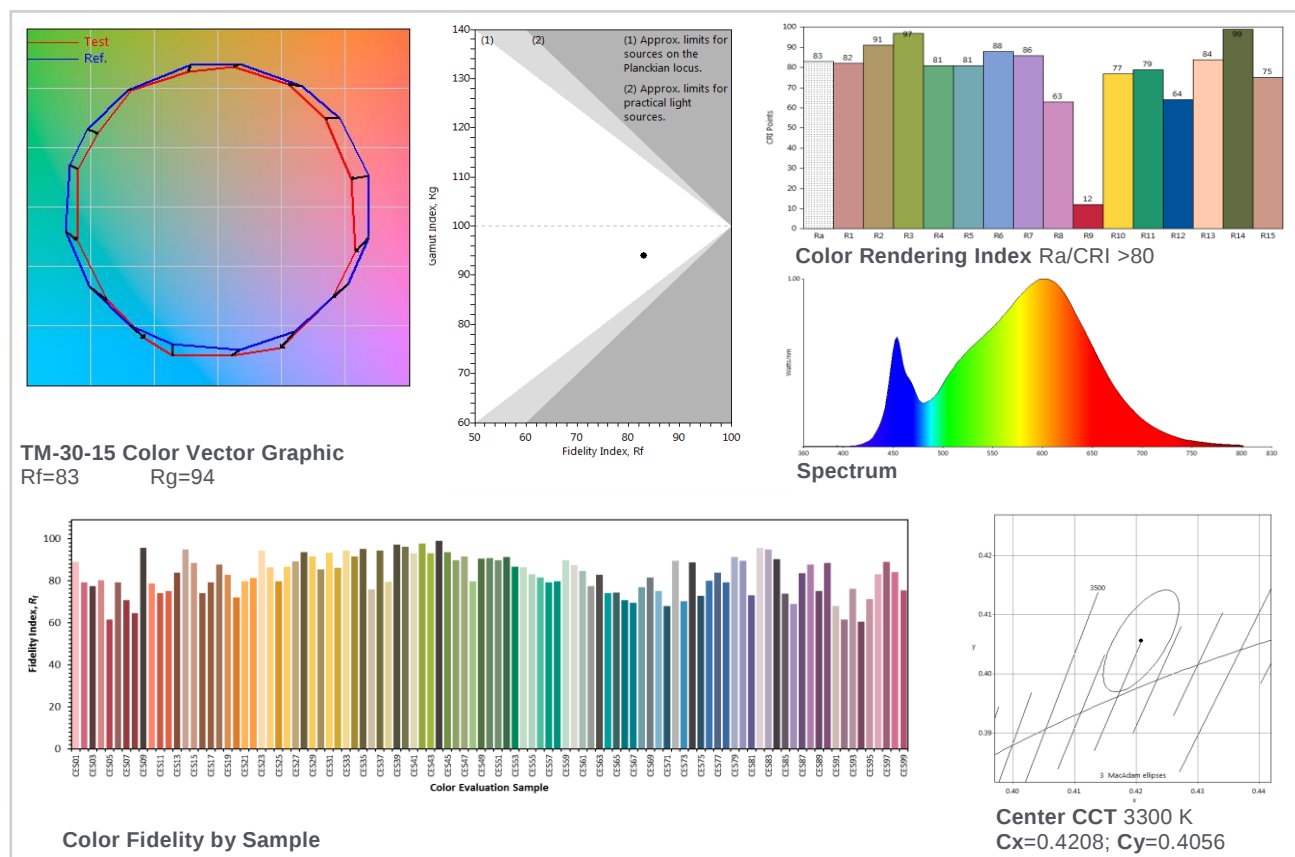
LFD800T-G1-827



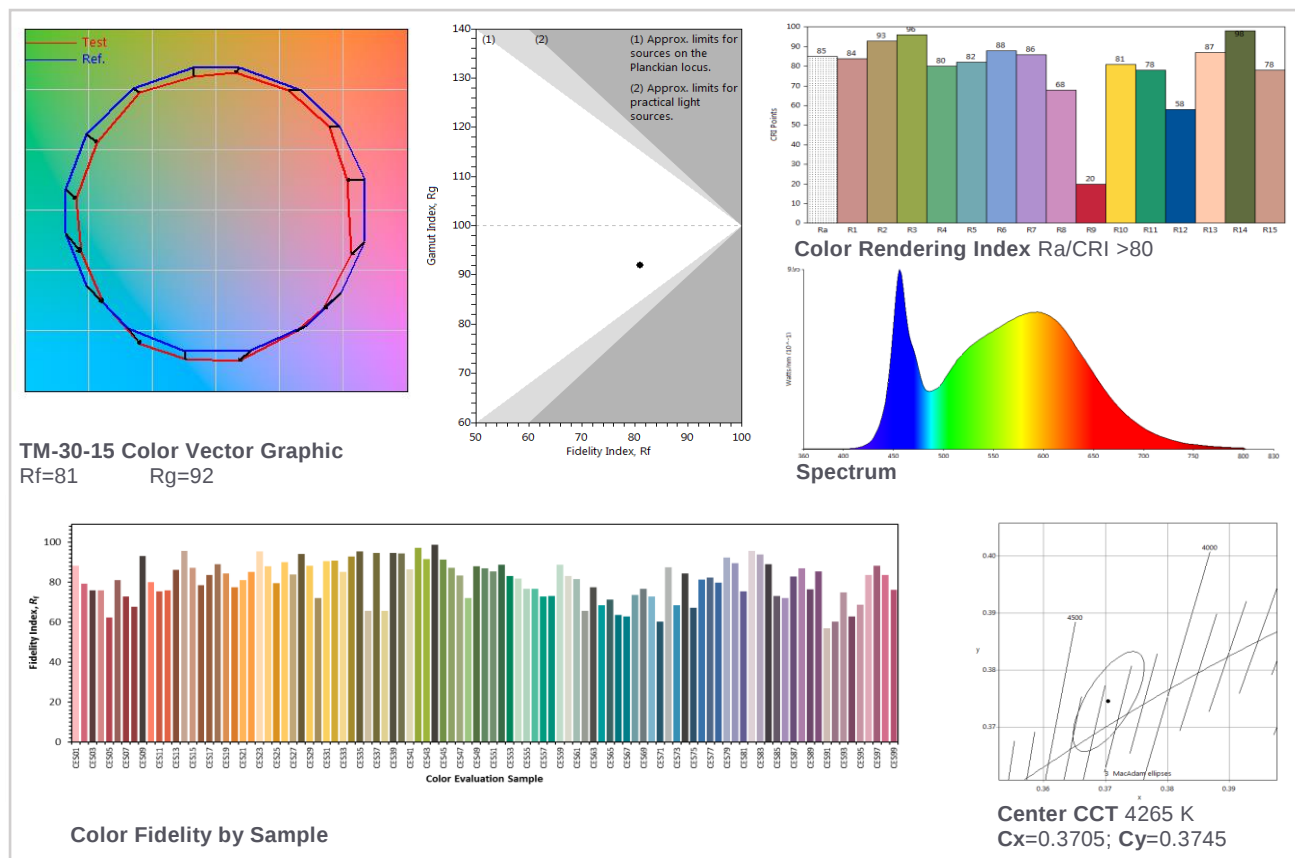
LFD800T-G1-830



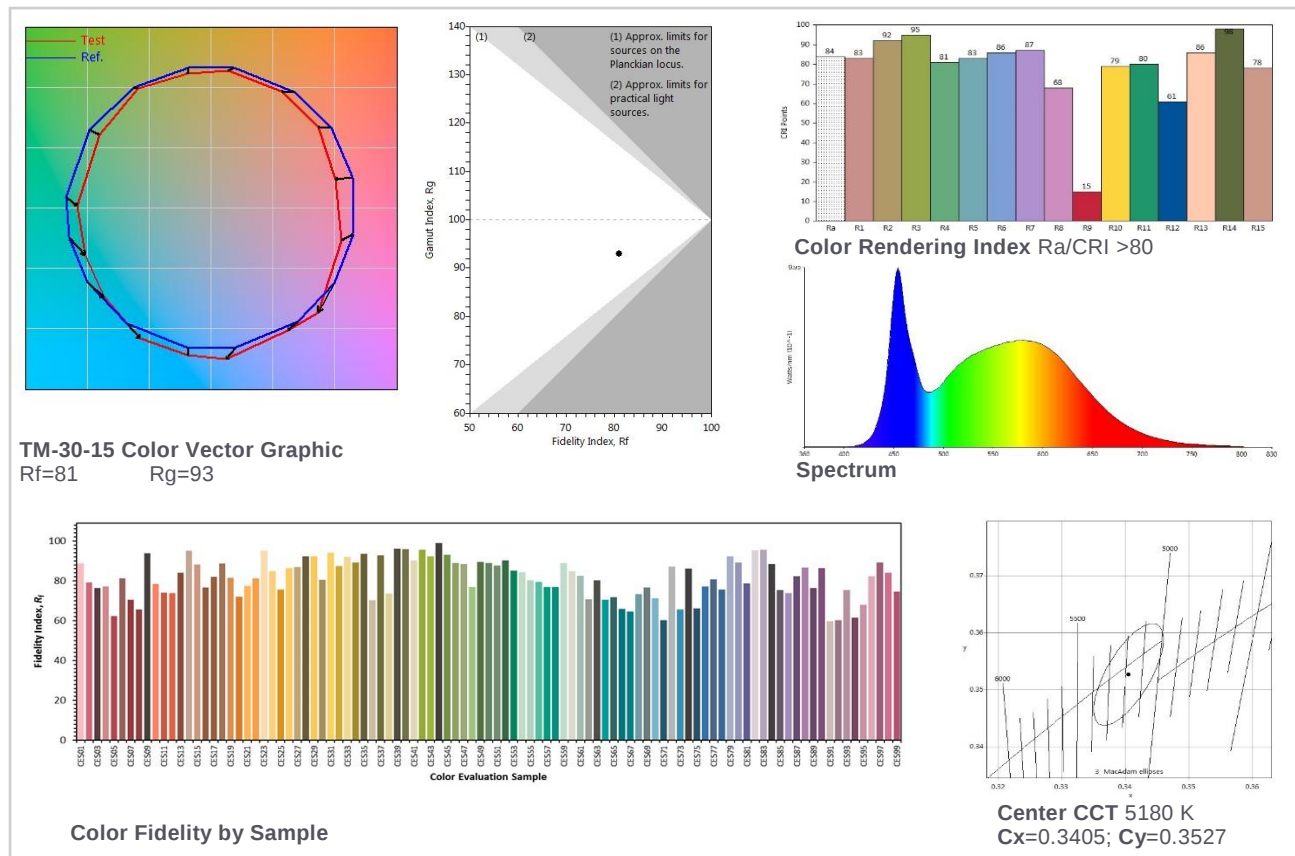
LFD800T-G1-835



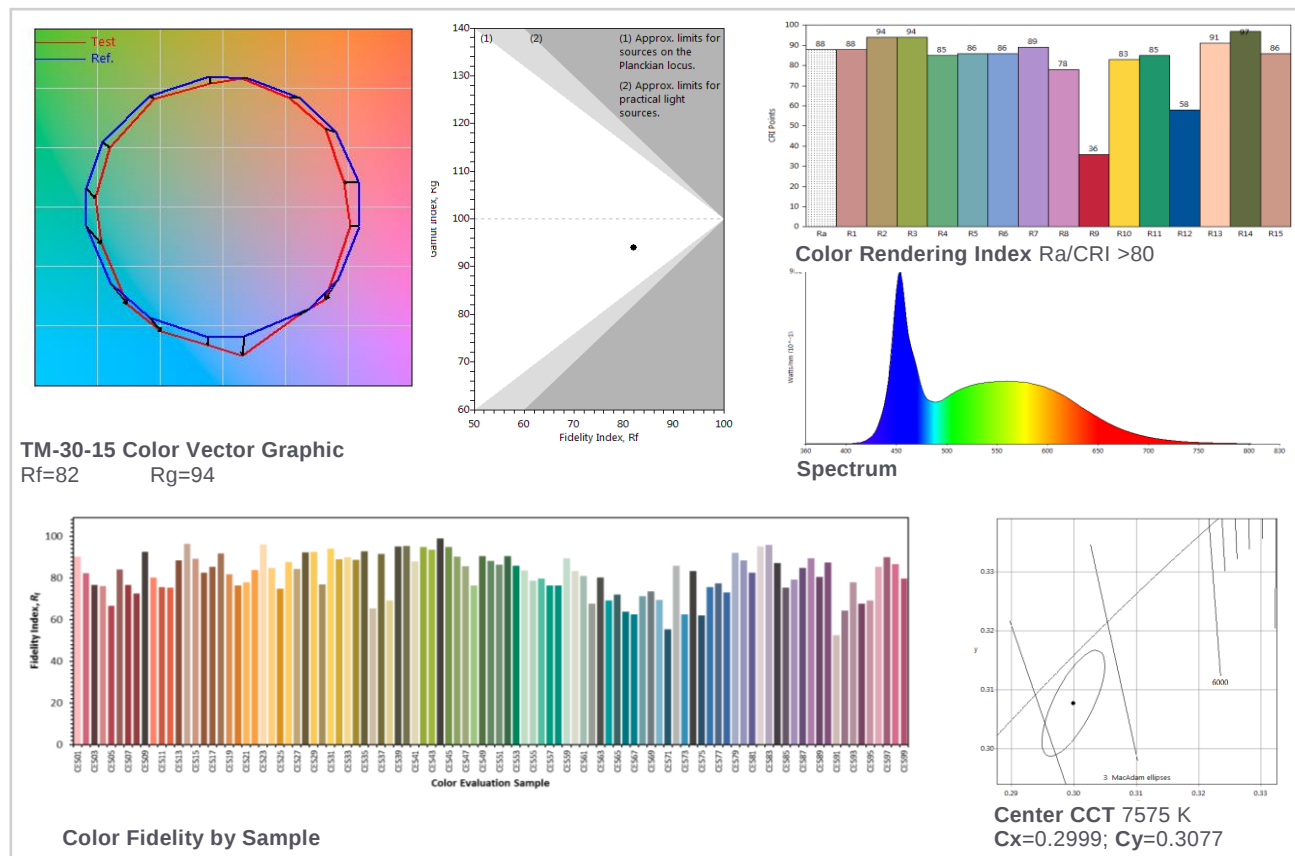
LFD800T-G1-840



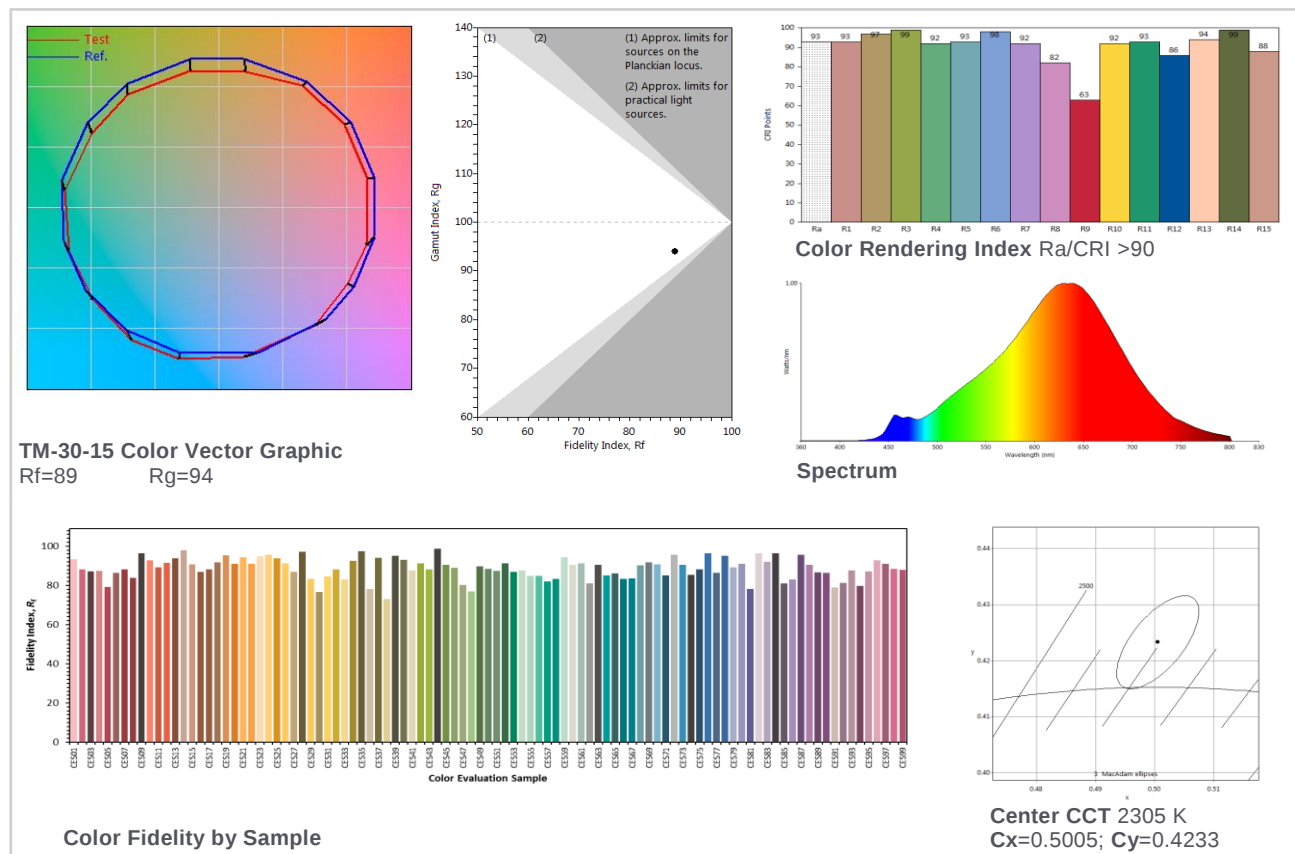
LFD800T-G1-850



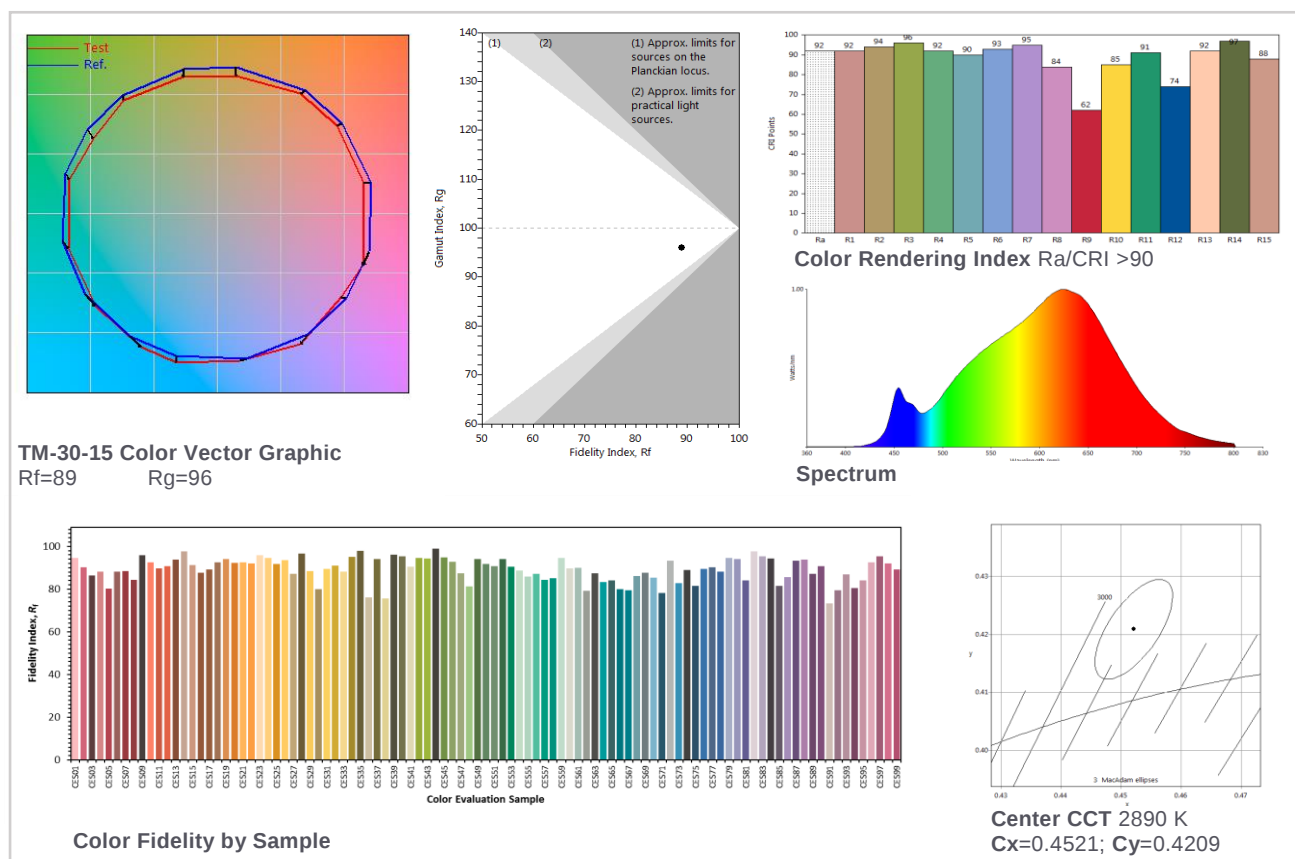
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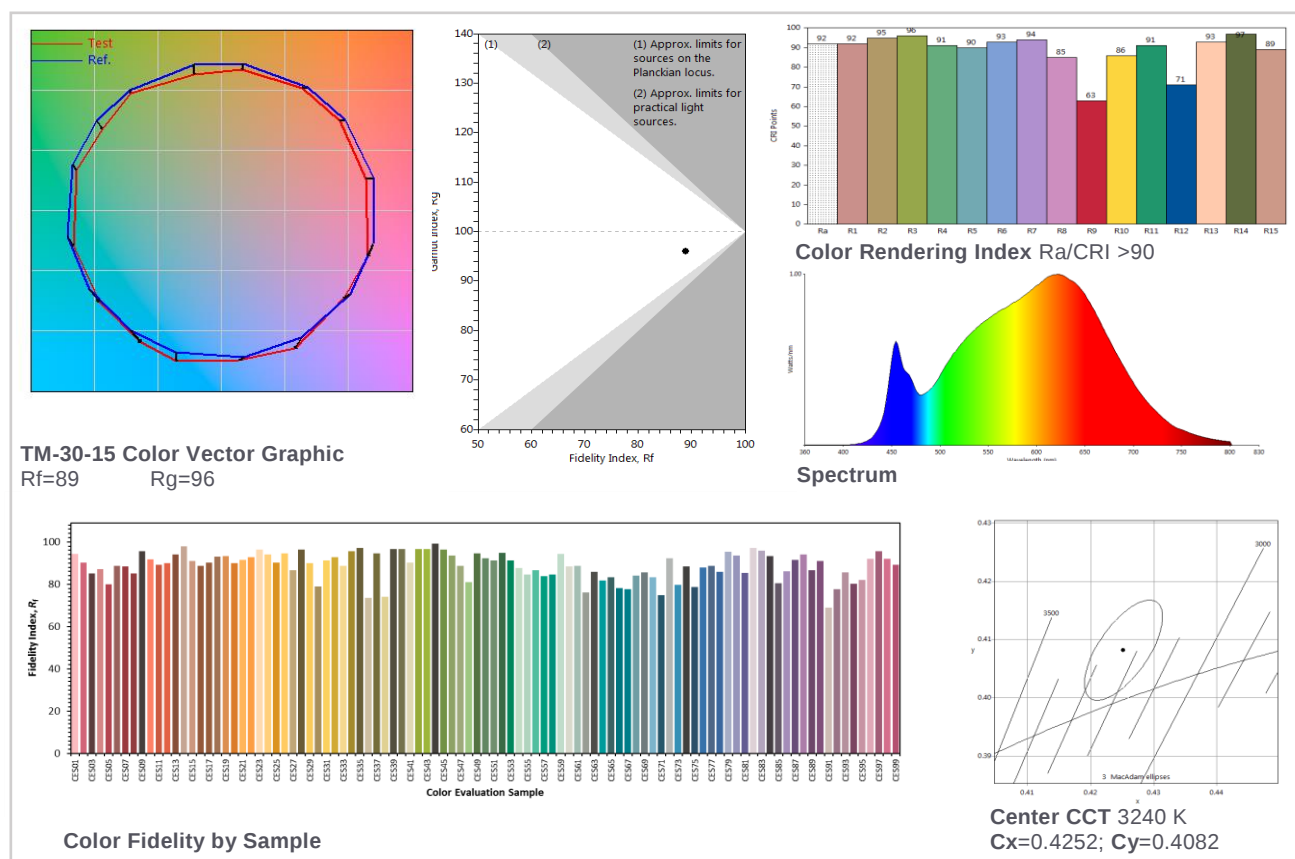
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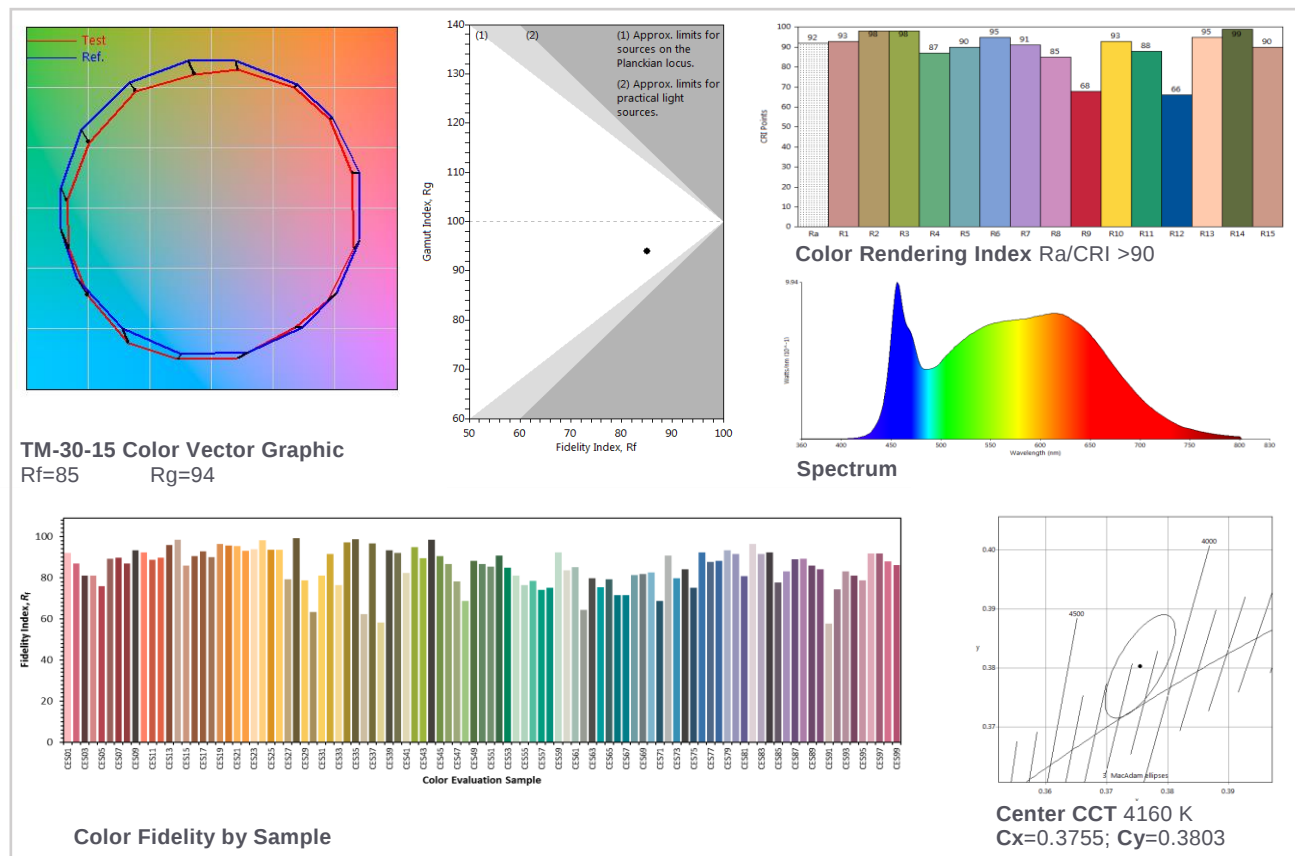
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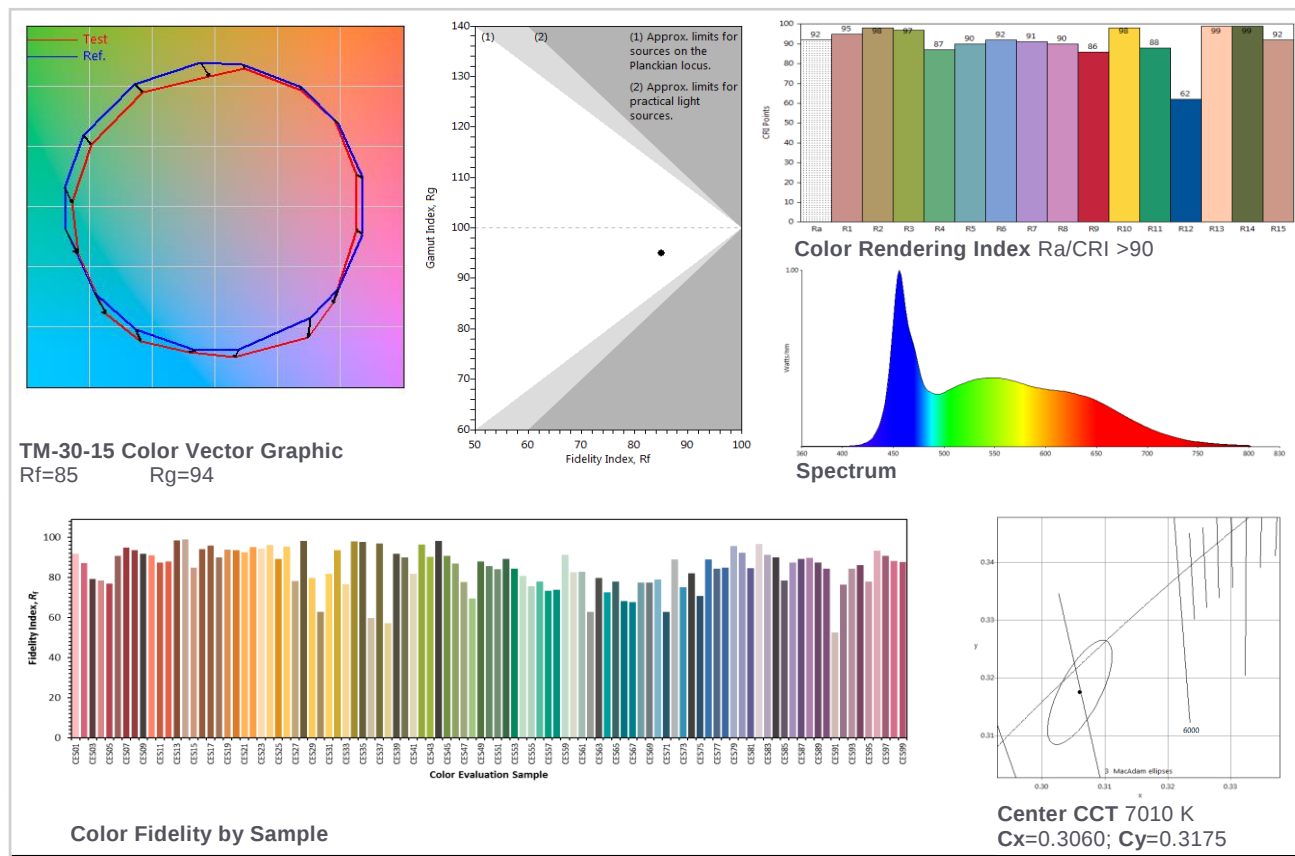
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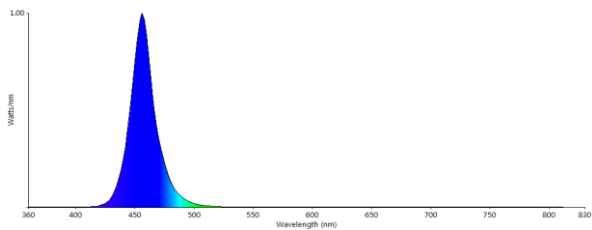
LFD800T-G1-940



LFD800T-G1-965

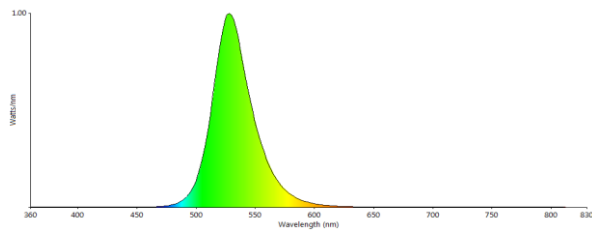


LFD400MT-G1-BL



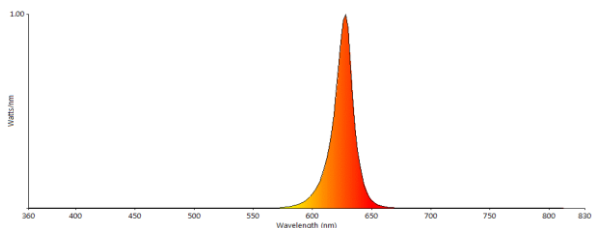
Spectrum

LFD400MT-G1-GR



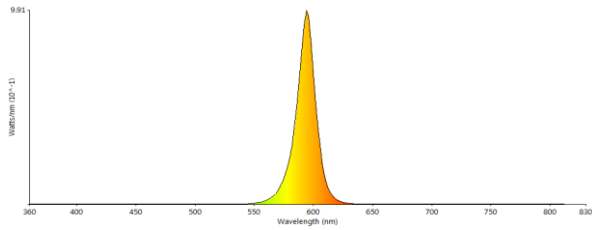
Spectrum

LFD400MT-G1-RE



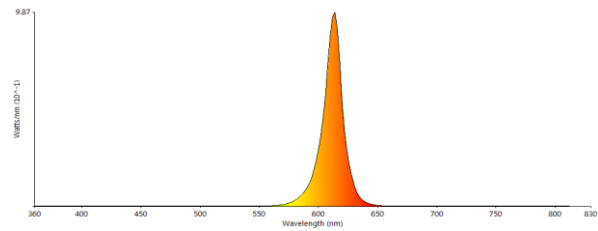
Spectrum

LFD400MT-G1-YE



Spectrum

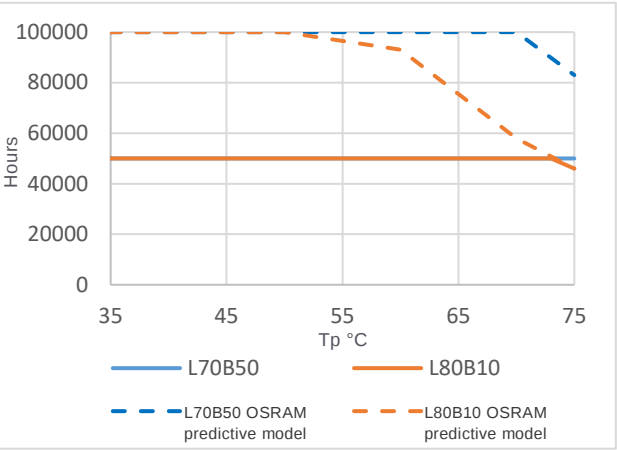
LFD400MT-G1-OR



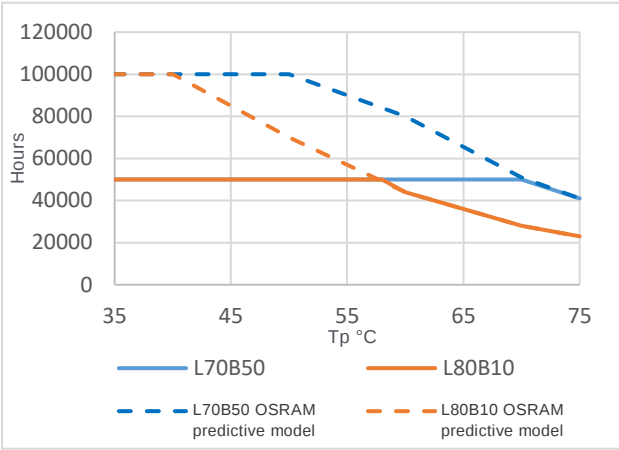
Spectrum

Lifetime

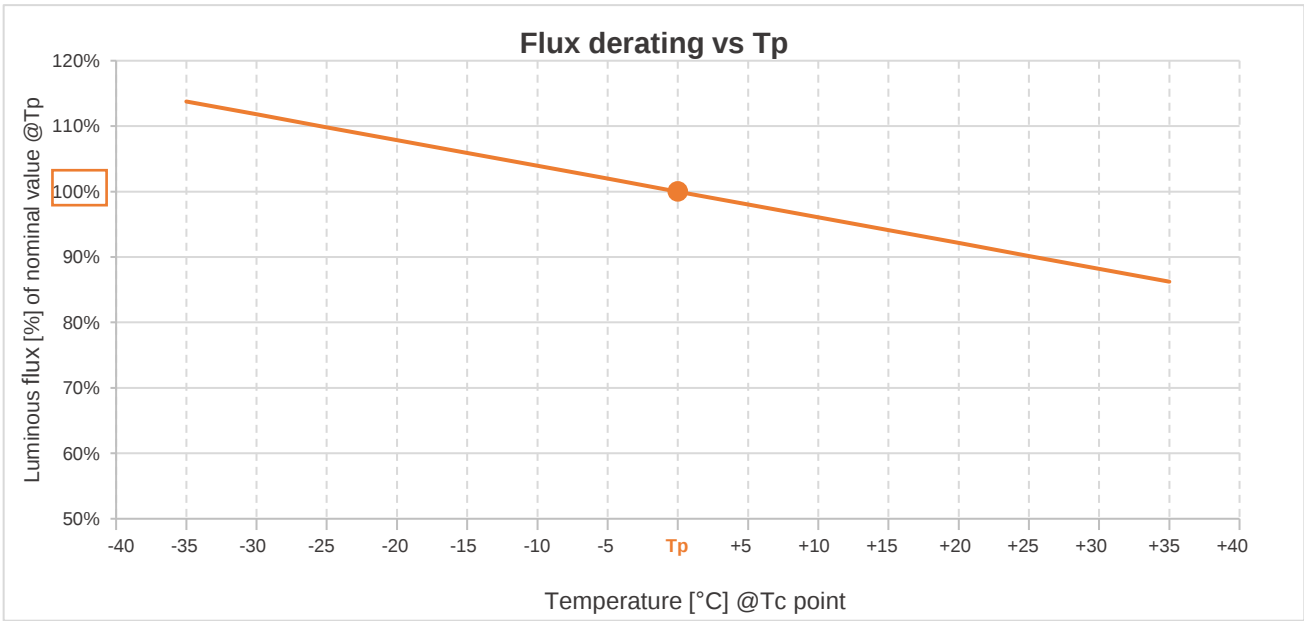
LFD400T/LFD400MT



LFD800T



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
LFD400T-G1-824-06	4052899581647	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400T-G1-827-06	4052899581661	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400T-G1-830-06	4052899581685	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400T-G1-835-06	4062172001038	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400T-G1-840-06	4052899581708	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400T-G1-850-06	4062172062350	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400T-G1-865-06	4052899581722	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400T-G1-924-06	4062172025522	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400T-G1-930-06	4062172025546	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400T-G1-935-06	4062172025560	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400T-G1-940-06	4062172025584	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400T-G1-965-06	4062172025607	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD800T-G1-824-06	4052899581883	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD800T-G1-827-06	4052899581906	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD800T-G1-830-06	4052899582002	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD800T-G1-835-06	4062172001076	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD800T-G1-840-06	4052899581920	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD800T-G1-850-06	4062172062398	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD800T-G1-865-06	4052899581944	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD800T-G1-924-06	4062172025720	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD800T-G1-930-06	4062172025744	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD800T-G1-935-06	4062172025768	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD800T-G1-940-06	4062172025782	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD800T-G1-965-06	4062172025805	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400MT-G1-BL-06	4052899953550	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400MT-G1-GR-06	4052899953567	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400MT-G1-RE-06	4052899953574	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400MT-G1-YE-06	4052899953581	6000 x 14.1 x 10.8 mm	1x Diffuse LED strip + connector
LFD400MT-G1-OR-06	4052899953598	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-TOPKIT5	4052899451995	5x Feeder, 10x Endcaps, 1x Glue (5g)
 Jumper kit with endcaps & glue	FX-DCS-G1-CM2PJ-IP67-TOPKIT5	4052899452053	5x Jumper, 10x Endcaps, 1x Glue (5g)
 Endcaps & glue	FX-DCS-G1-ECT-KIT20	4052899452107	20x Endcaps, 2x Glue (5g)
 Double-sided endcaps & glue	FX-DCS-G1-EHT-KIT20	4052899452176	20x Endcaps, 1x Glue (25g)
 Silicon glue 25g	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-BT-17H11	4052899452480	50x Mounting Bracket
 Mounting bracket with additional wing	FX-LFDM-G1-BTL-17H11E9	4052899452510	50x Mounting Bracket
 Aluminum profile Top	FX-LFDM -G1-TT-16H16-200	4052899544949	5x Profile
 Aluminum profile Top Wings	FX-LFDM -G1-TTL-16H11W10-200	4052899544963	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 Top in case of surface mounting. In this condition the expected Tc of LED strip is the maximum allowed.

THERMAL MEASUREMENTS FOR SURFACE MOUNTING				
			LFD400T/LFD400MT	LFD800T
Profile Type	Product description	Product code (EAN)	Ambient Temperature °C	
 Top profile	FX-LFDM -G1-TT-16H16-200	4052899544949	50	45
 Top profile wing	FX-LFDM -G1-TTL-16H11W10-200	4052899544963	50	45
Without any profile			47	39

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

THERMAL MEASUREMENTS FOR SURFACE MOUNTING				
			LFD400T/LFD400MT	LFD800T
Profile Type	Product description	Product code (EAN)	Ambient Temperature °C	
 Top profile	FX-LFDM -G1-TT-16H16-200	4052899544949	48	37
 Top profile wing	FX-LFDM -G1-TTL-16H11W10-200	4052899544963	48	47
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.

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