

Light is OSRAM

OSRAM

LINEARlight FLEX® DIFFUSE G2 Top

Homogeneous and uniform dot free light lines

LFD400T/800T/1300T



Features & Benefits

- Diffuse light lines without visible spots
- Luminous flux up to 1550 lm/m
- IP67 protection with high performance silicone
- CRI 80+ and 90+ versions
- Color uniformity ≤ 3 SDCM
- Lifetime up to 60.000 hours L90B10 at 25°C
- Lifetime up to 60.000 hours L70B50 at 25°C
- 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

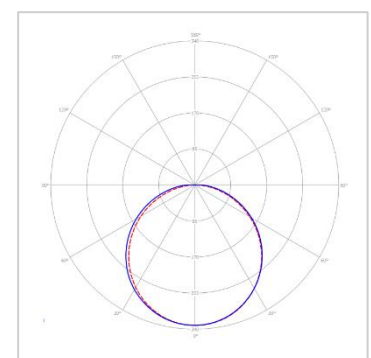
Standards

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 @ 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

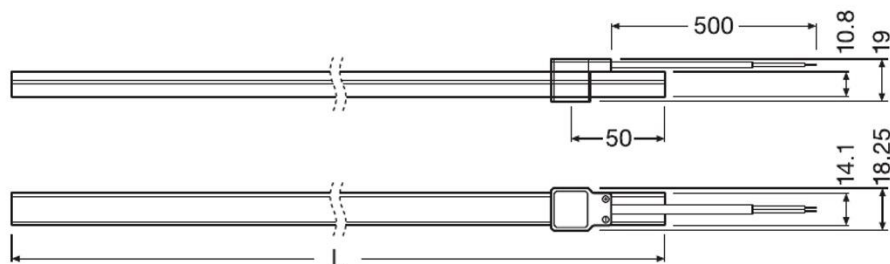


— C0-C180
— C90-C270
cd/1000lm

Beam Angle: 120°

Mechanical data

LFD400 / LFD800 / LFD1300 TOP

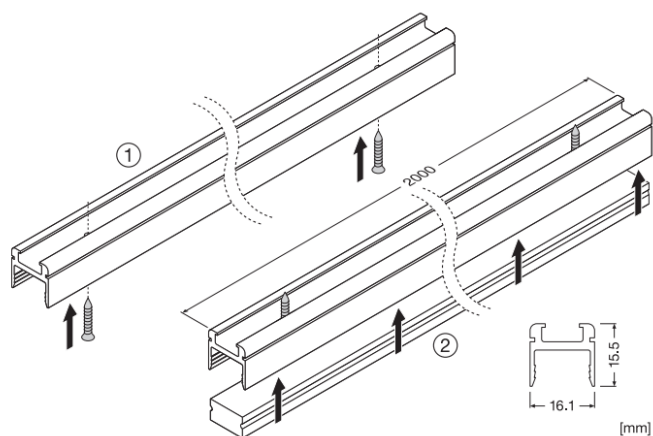


Min. bending radius = 100 mm
All dimensions in: mm

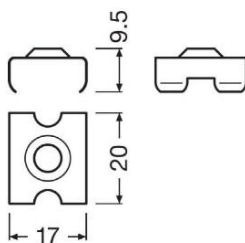
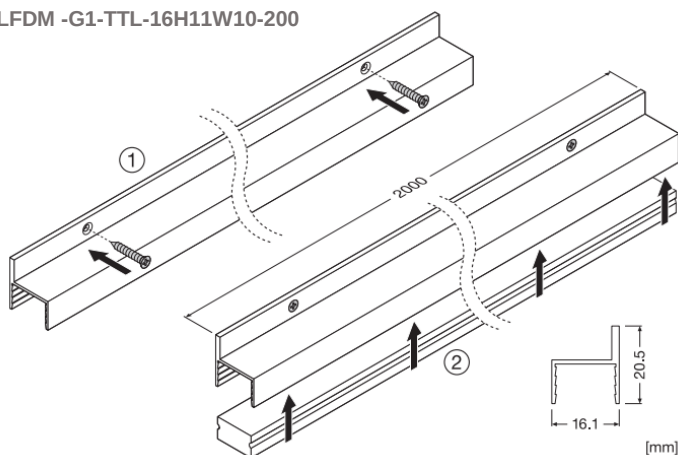
Max. operable length = product length

LFD400 / LFD800 / LFD1300 TOP with optional accessories

FX-LFDM -G1-TT-16H16-200



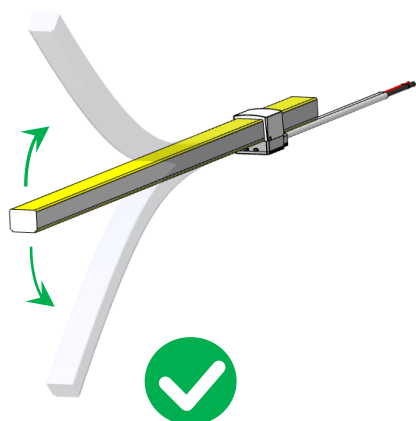
FX-LFDM -G1-TTL-16H11W10-200



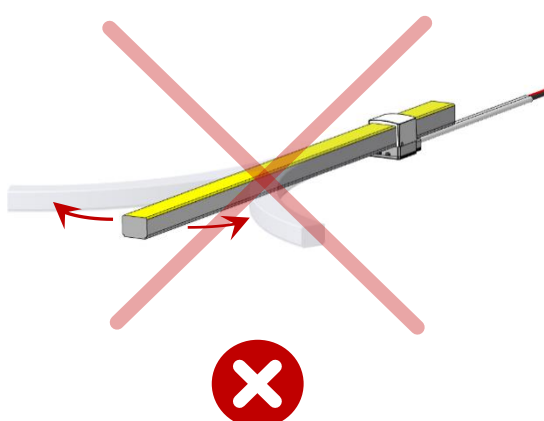
FX-QMS-G1-BMZI-DIV1

LFD400 / LFD800 / LFD1300 TOP bending direction (yellow: light emitting surface)

Allowed:



NOT allowed:



Technical data

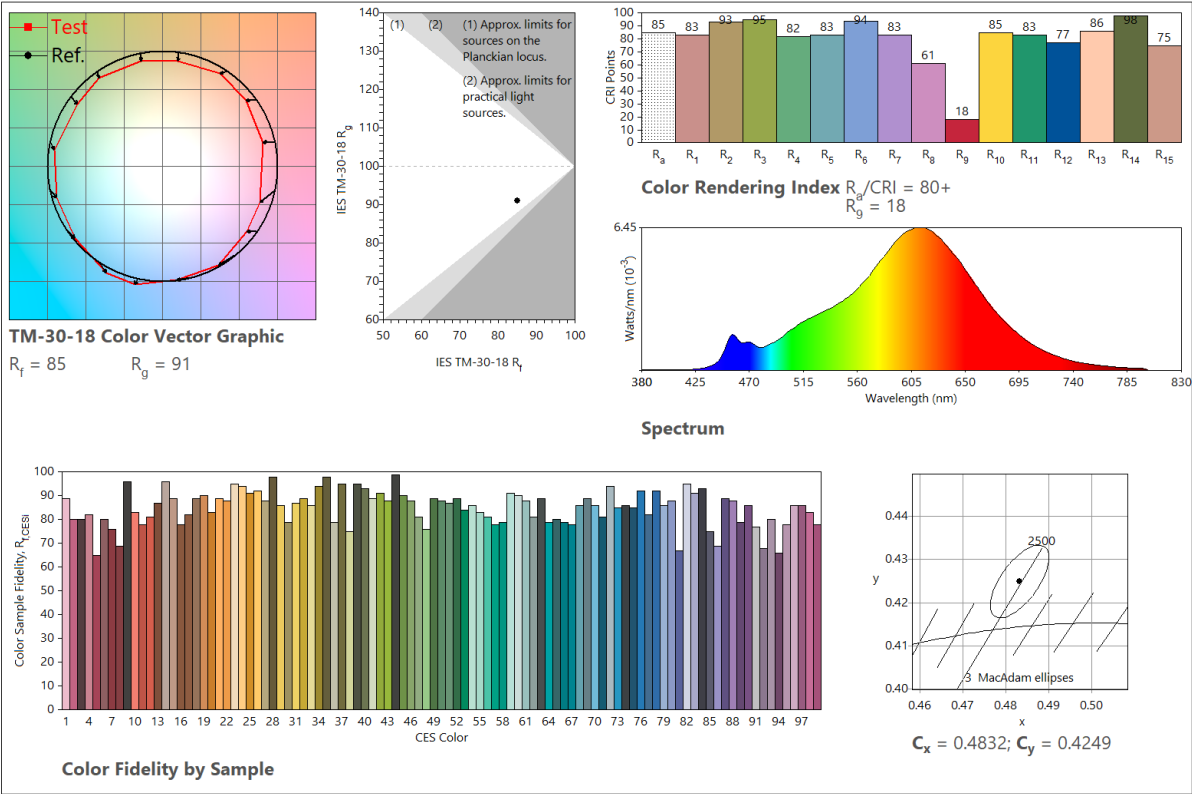
LFD400T White	 Nominal CCT See color output data	CRI	Luminous Flux per meter lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LFD400T-G2-824-10	 2400 K	>80	520	7.3	71	35	10
LFD400T-G2-827-10	 2700 K	>80	560	7.3	77	35	10
LFD400T-G2-830-10	 3000 K	>80	600	7.3	82	35	10
LFD400T-G2-835-10	 3500 K	>80	600	7.3	82	35	10
LFD400T-G2-840-10	 4000 K	>80	600	7.3	82	35	10
LFD400T-G2-865-10	 6500 K	>80	550	7.3	75	35	10
LFD400T-G2-924-10	 2400 K	>90	460	7.3	63	35	10
LFD400T-G2-927-10	 2700 K	>90	480	7.3	66	35	10
LFD400T-G2-930-10	 3000 K	>90	510	7.3	70	35	10
LFD400T-G2-935-10	 3500 K	>90	510	7.3	70	35	10
LFD400T-G2-940-10	 4000 K	>90	510	7.3	70	35	10
LFD400T-G2-965-10	 6500 K	>90	470	7.3	64	35	10

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-G2-824-06	 2400 K	>80	950	13.5	70	50	6
LFD800T-G2-827-06	 2700 K	>80	1000	13.5	74	50	6
LFD800T-G2-830-06	 3000 K	>80	1050	13.5	78	50	6
LFD800T-G2-835-06	 3500 K	>80	1050	13.5	78	50	6
LFD800T-G2-840-06	 4000 K	>80	1050	13.5	78	50	6
LFD800T-G2-865-06	 6500 K	>80	950	13.5	70	50	6
LFD800T-G2-924-06	 2400 K	>90	800	13.5	59	50	6
LFD800T-G2-927-06	 2700 K	>90	870	13.5	64	50	6
LFD800T-G2-930-06	 3000 K	>90	870	13.5	64	50	6
LFD800T-G2-935-06	 3500 K	>90	910	13.5	67	50	6
LFD800T-G2-940-06	 4000 K	>90	910	13.5	67	50	6
LFD800T-G2-965-06	 6500 K	>90	860	13.5	64	50	6

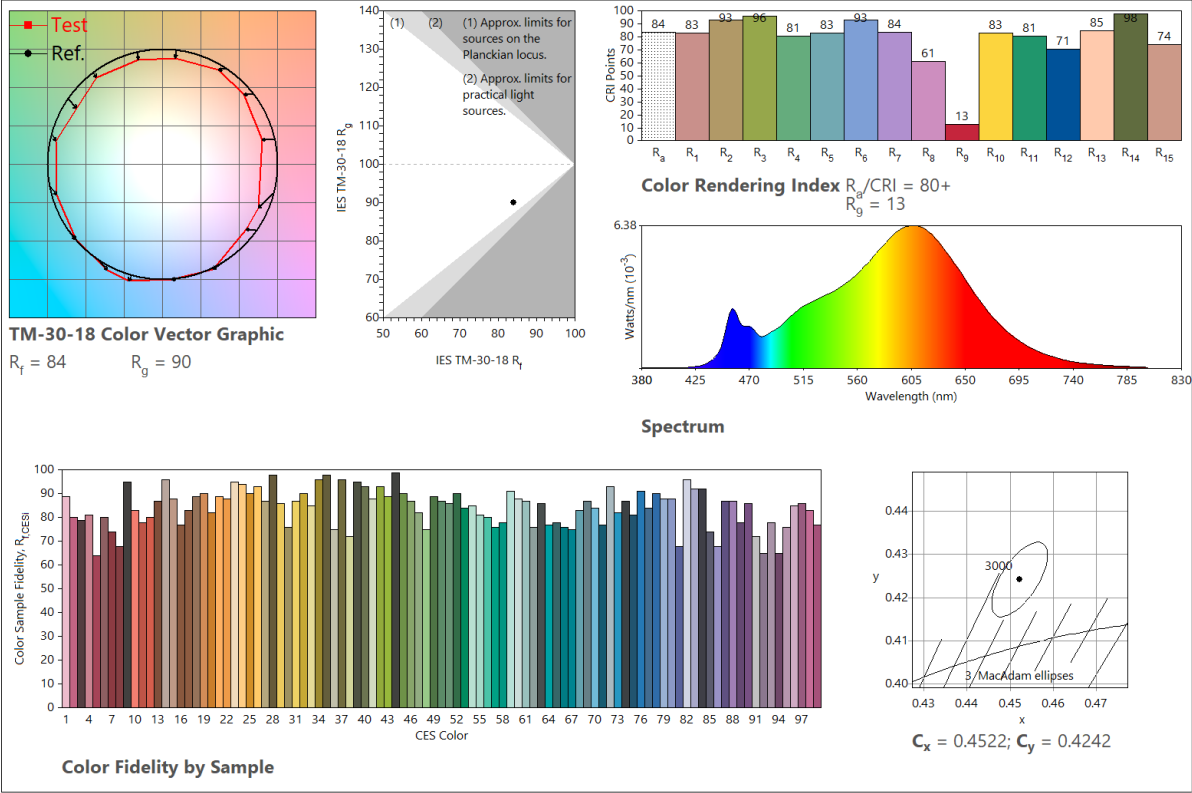
LFD1300T White	 Nominal CCT See color output data	CRI	Luminous Flux per meter lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LFD1300T-G2-824-04	 2400 K	>80	1350	21	64	55	4
LFD1300T-G2-827-04	 2700 K	>80	1500	21	71	55	4
LFD1300T-G2-830-04	 3000 K	>80	1500	21	71	55	4
LFD1300T-G2-835-04	 3500 K	>80	1550	21	74	55	4
LFD1300T-G2-840-04	 4000 K	>80	1550	21	74	55	4
LFD1300T-G2-865-04	 6500 K	>80	1400	21	67	55	4
LFD1300T-G2-927-04	 2700 K	>90	1230	21	59	55	4
LFD1300T-G2-930-04	 3000 K	>90	1340	21	64	55	4
LFD1300T-G2-935-04	 3500 K	>90	1340	21	64	55	4
LFD1300T-G2-940-04	 4000 K	>90	1340	21	64	55	4
LFD1300T-G2-965-04	 6500 K	>90	1250	21	60	55	4

Color output data

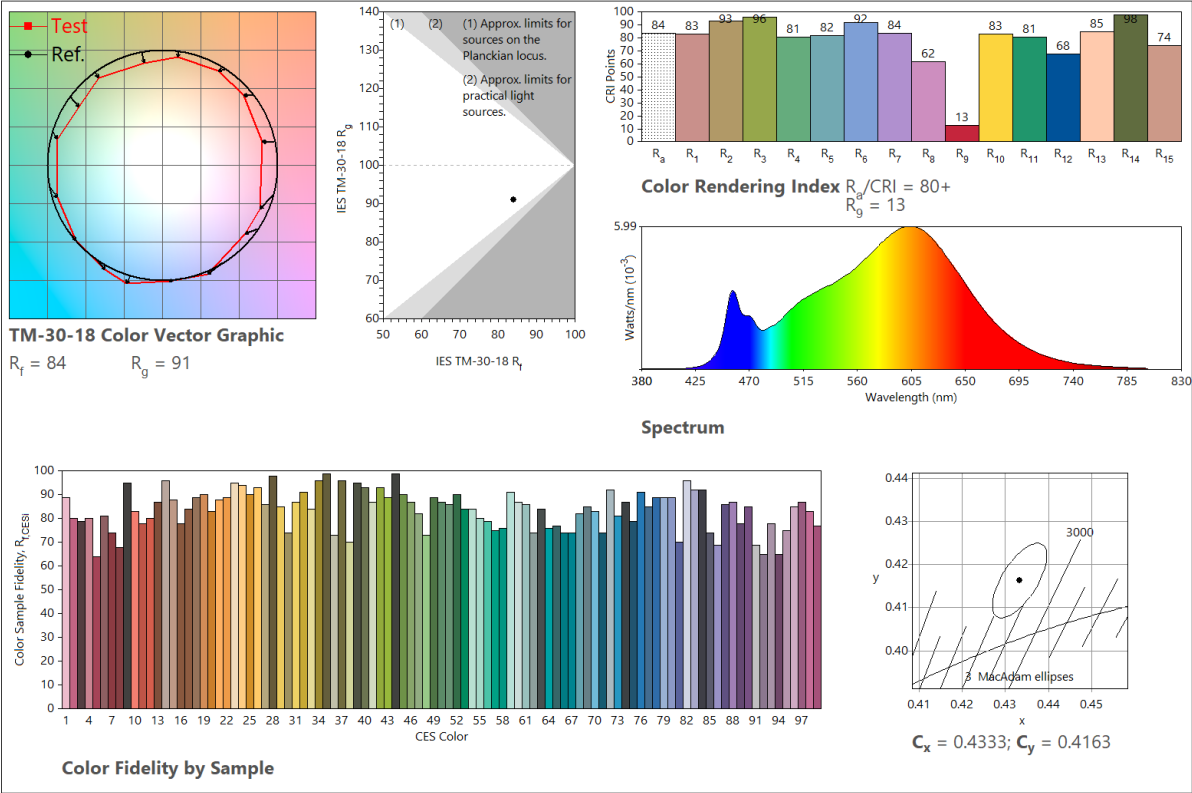
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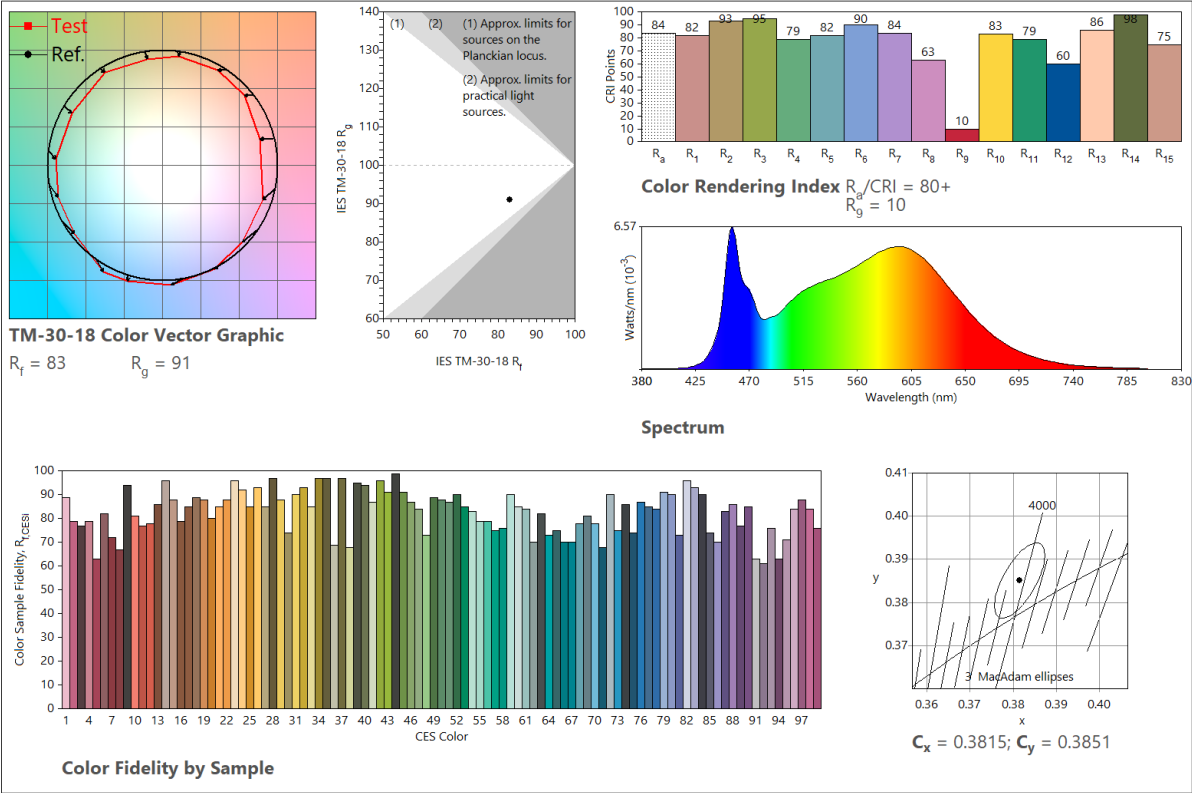
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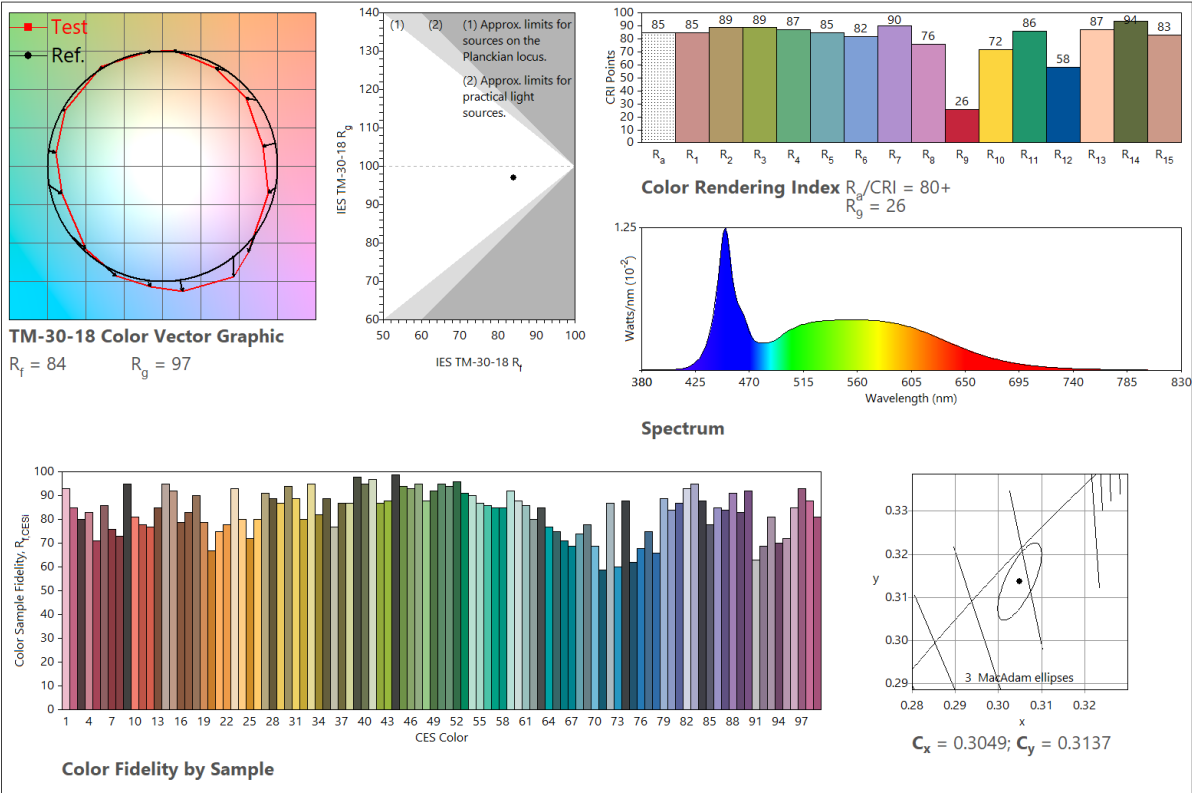
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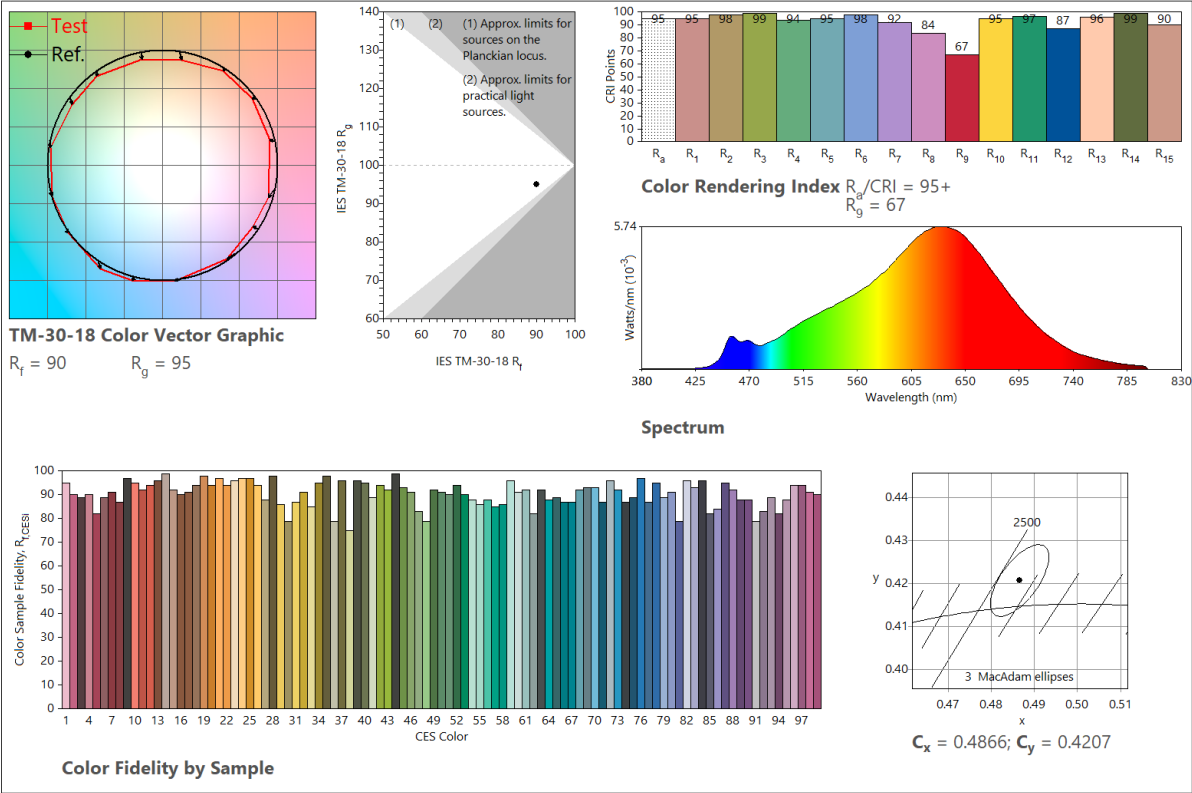
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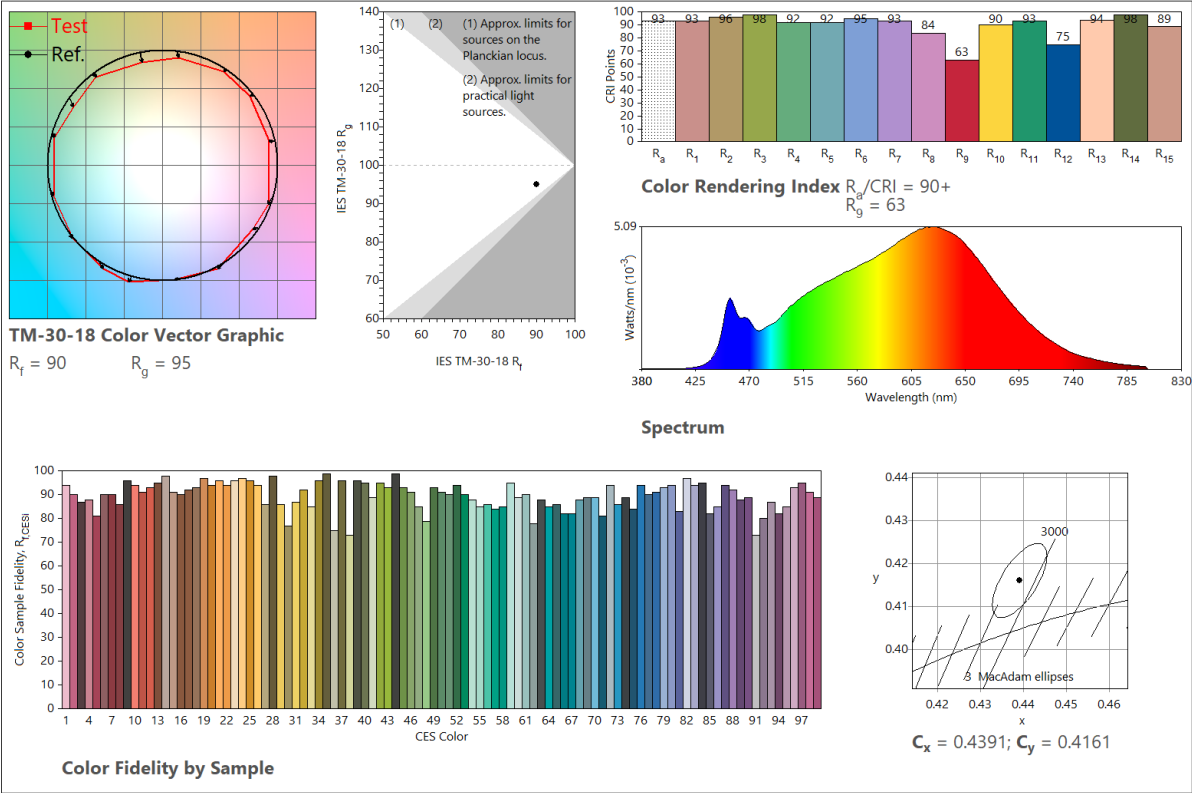
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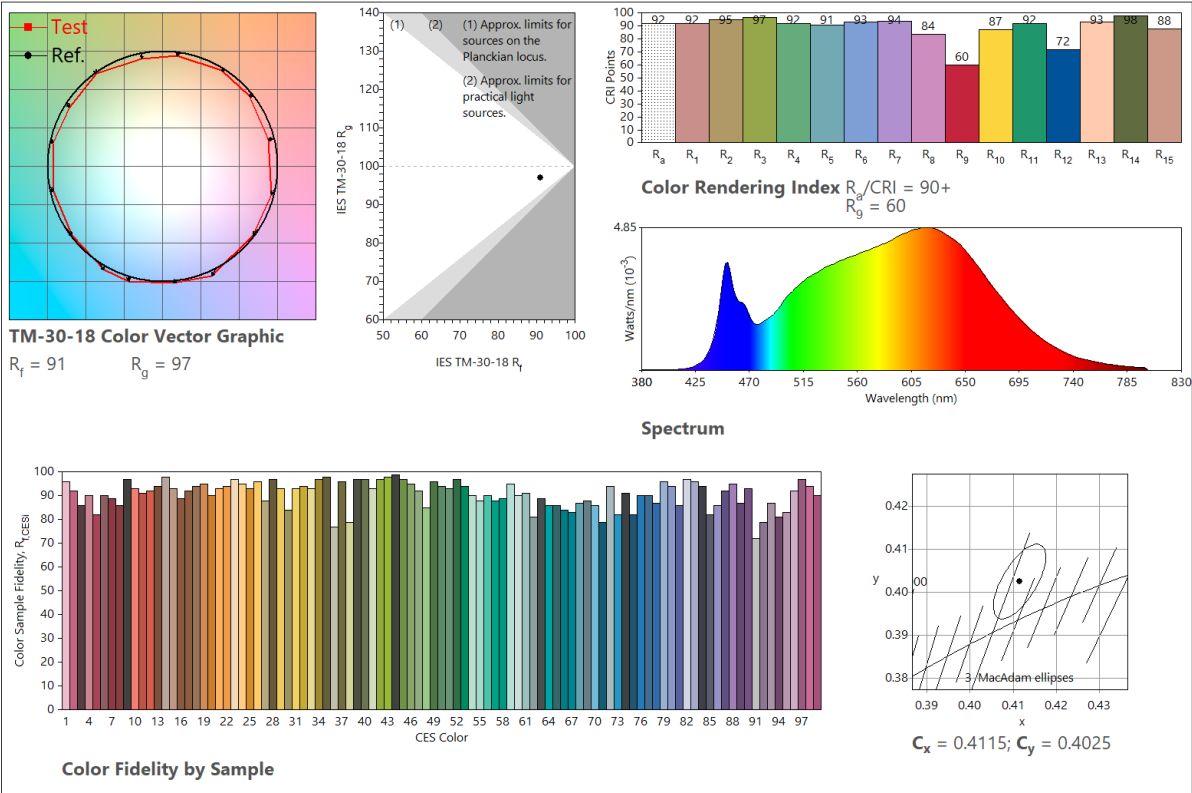
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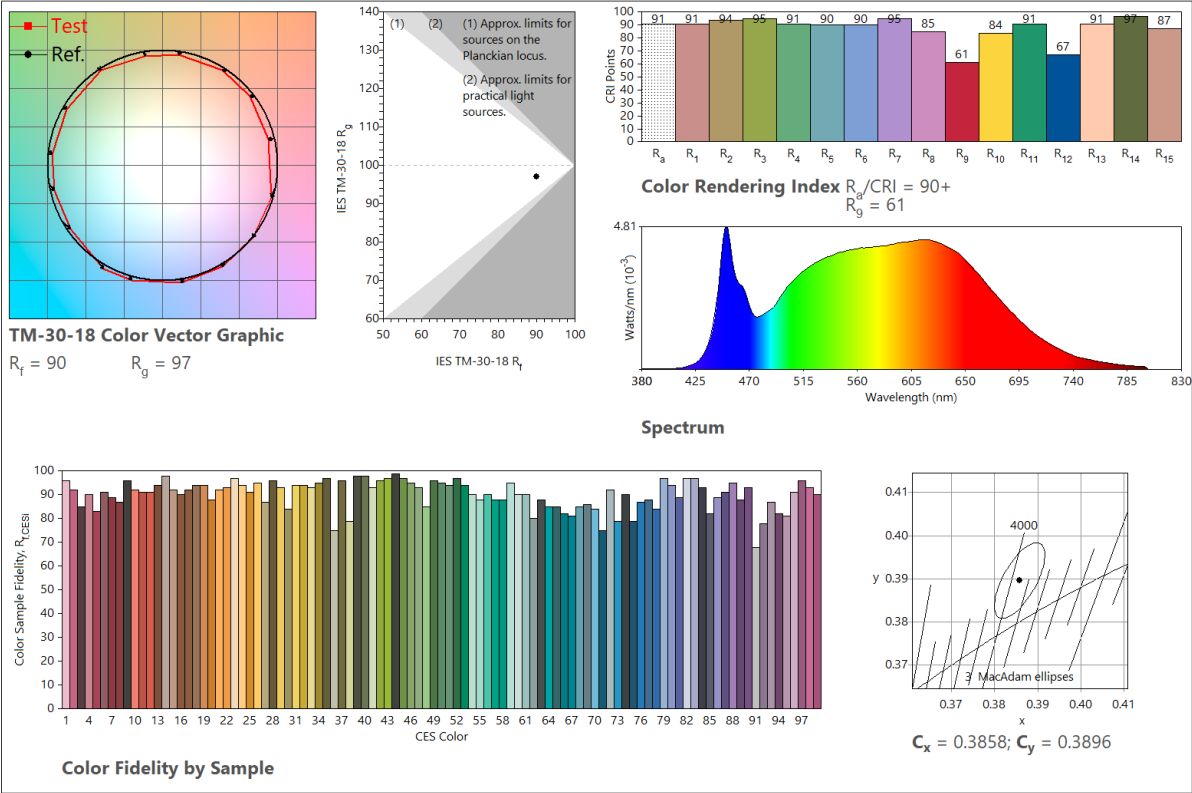
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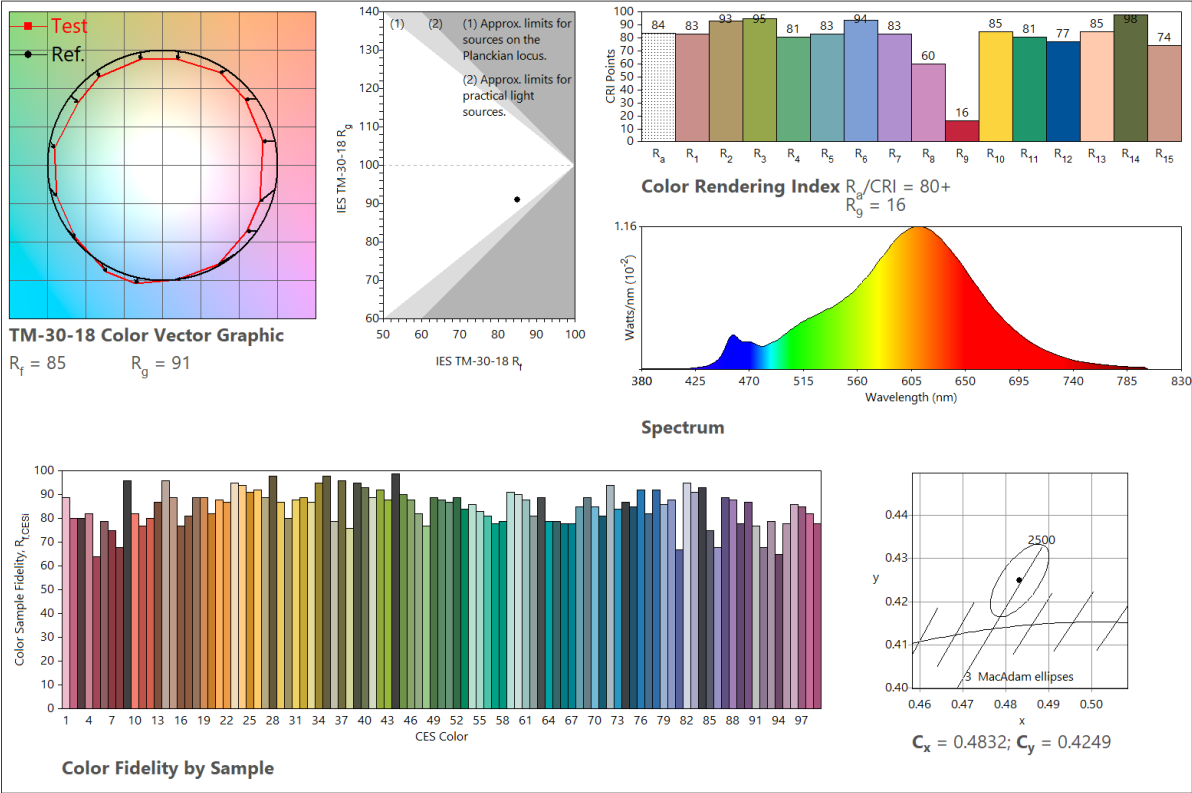
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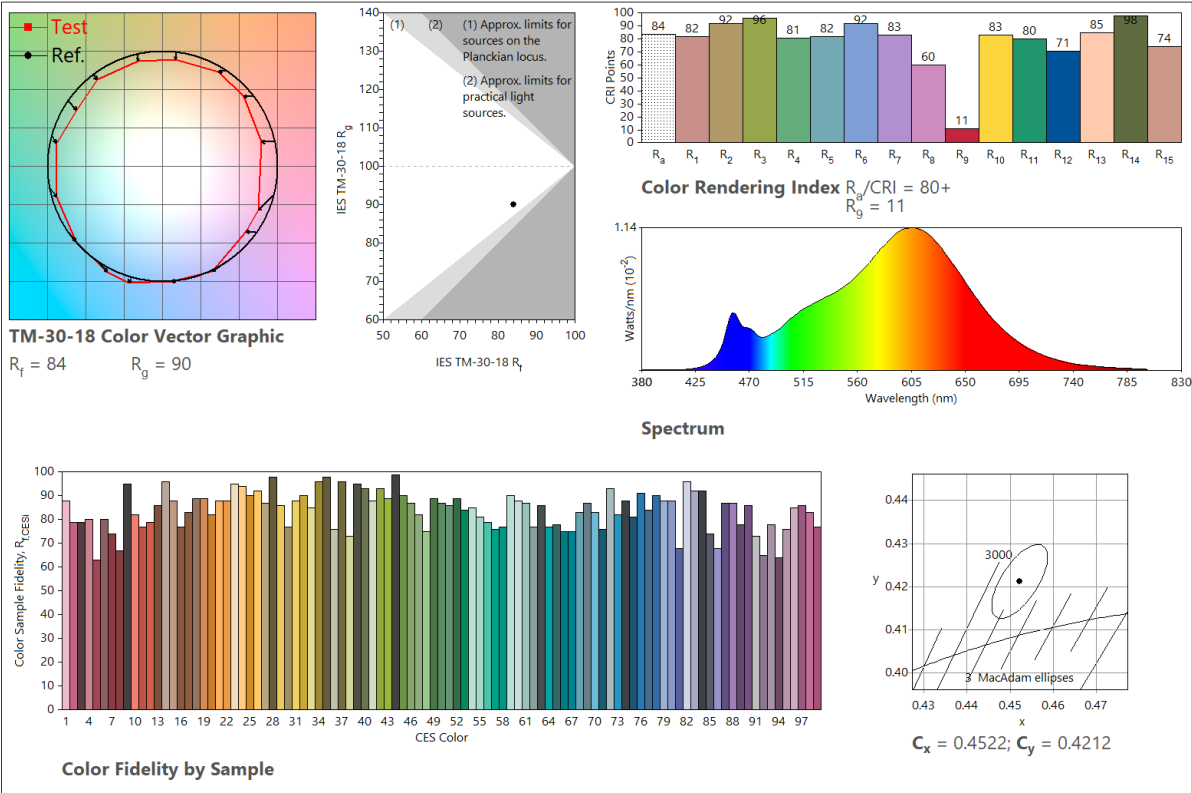
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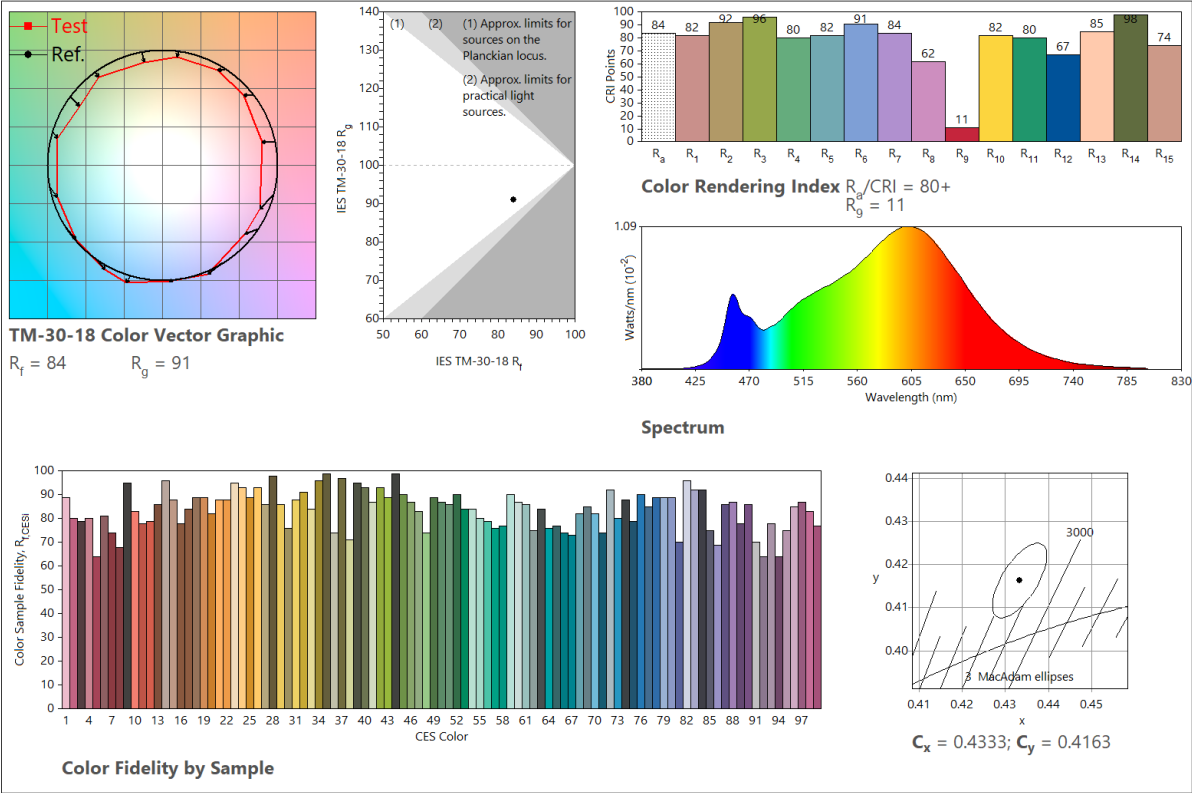
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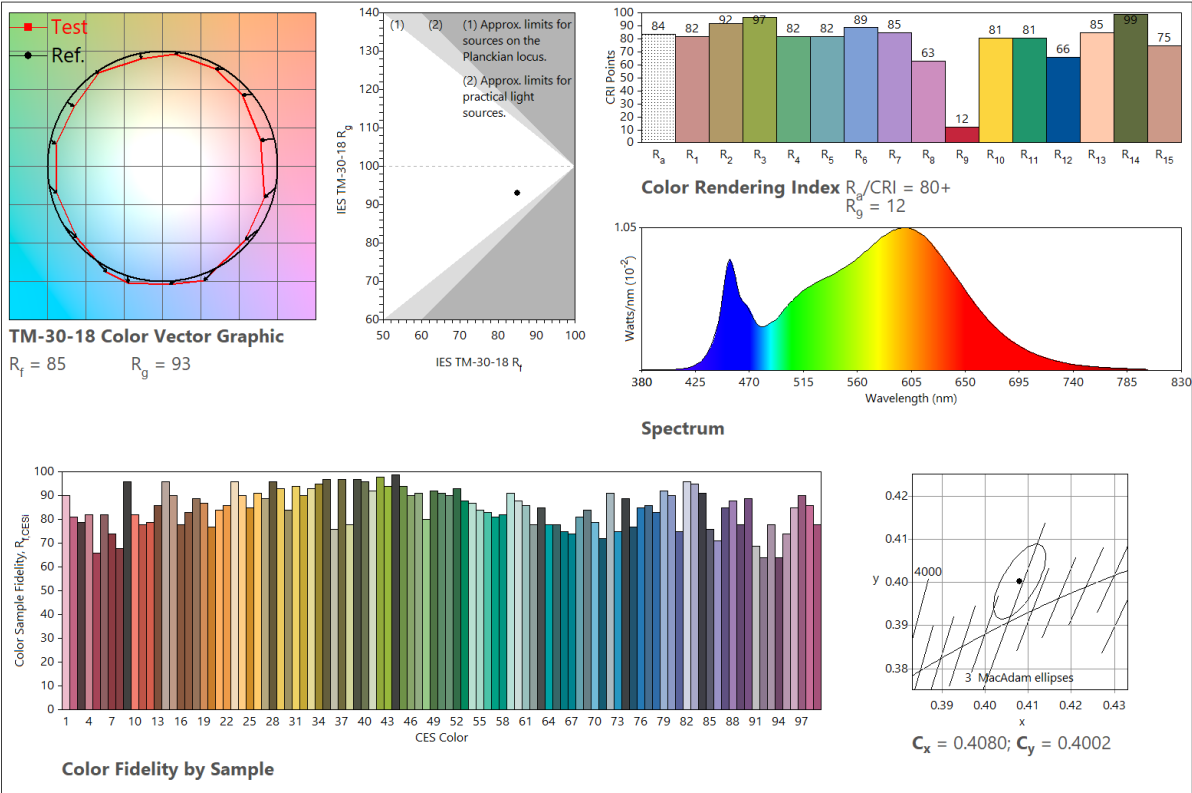
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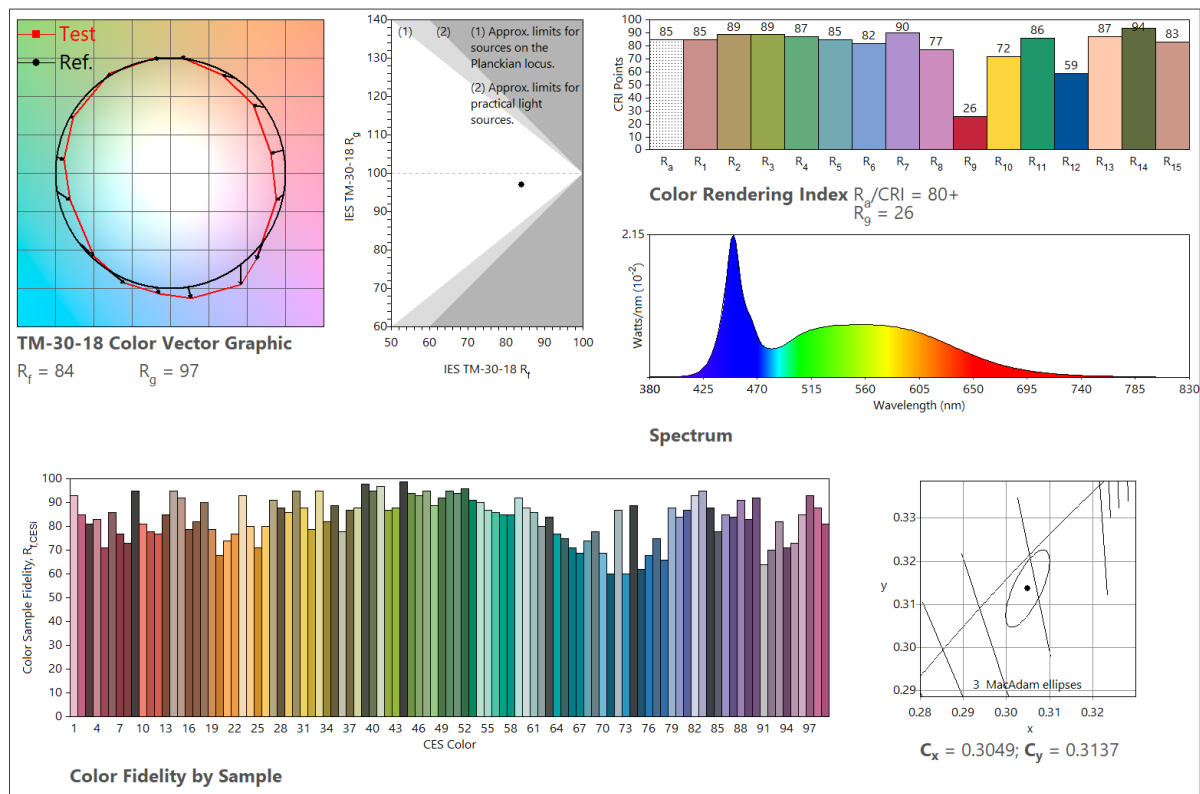
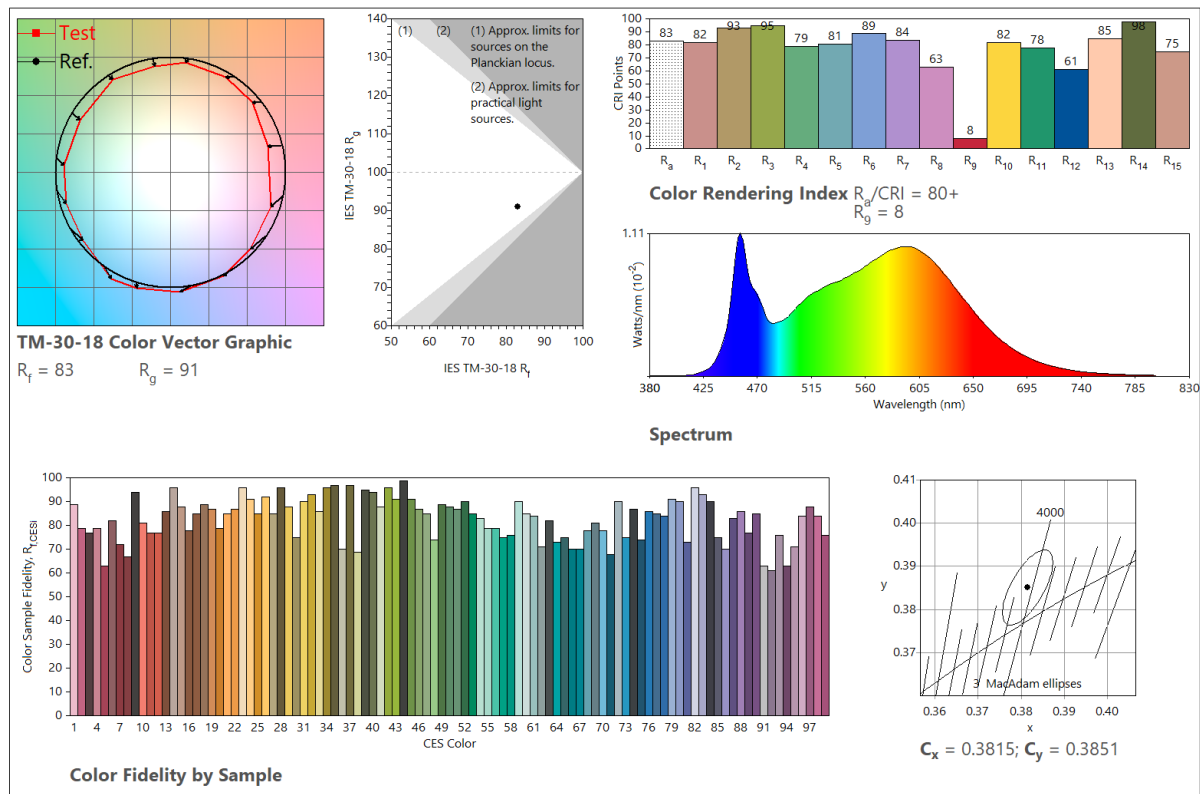


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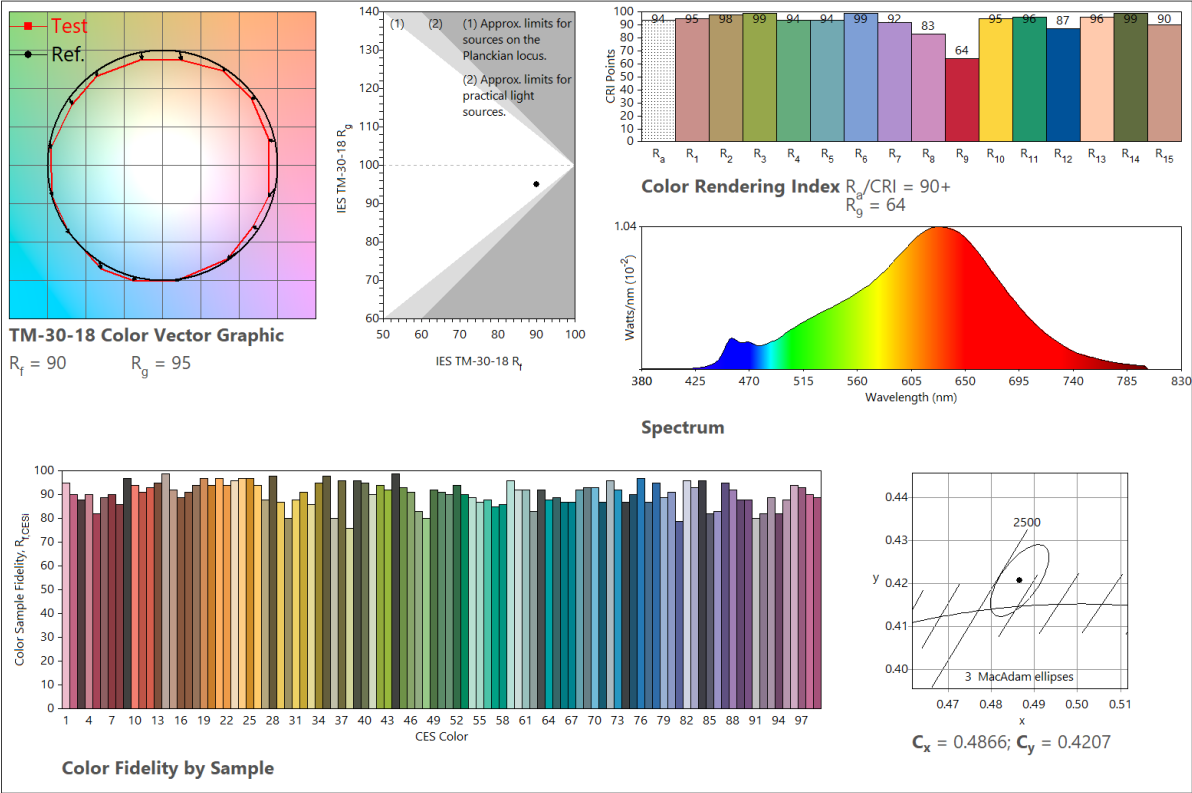


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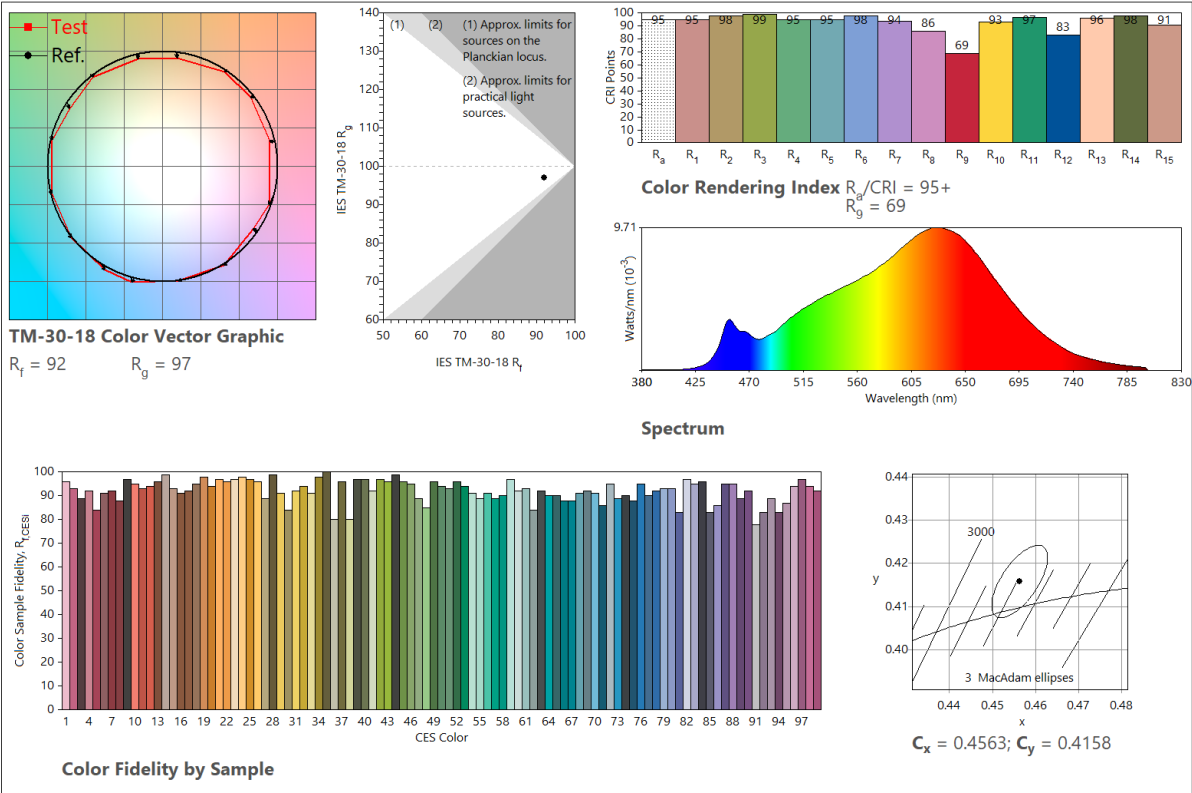




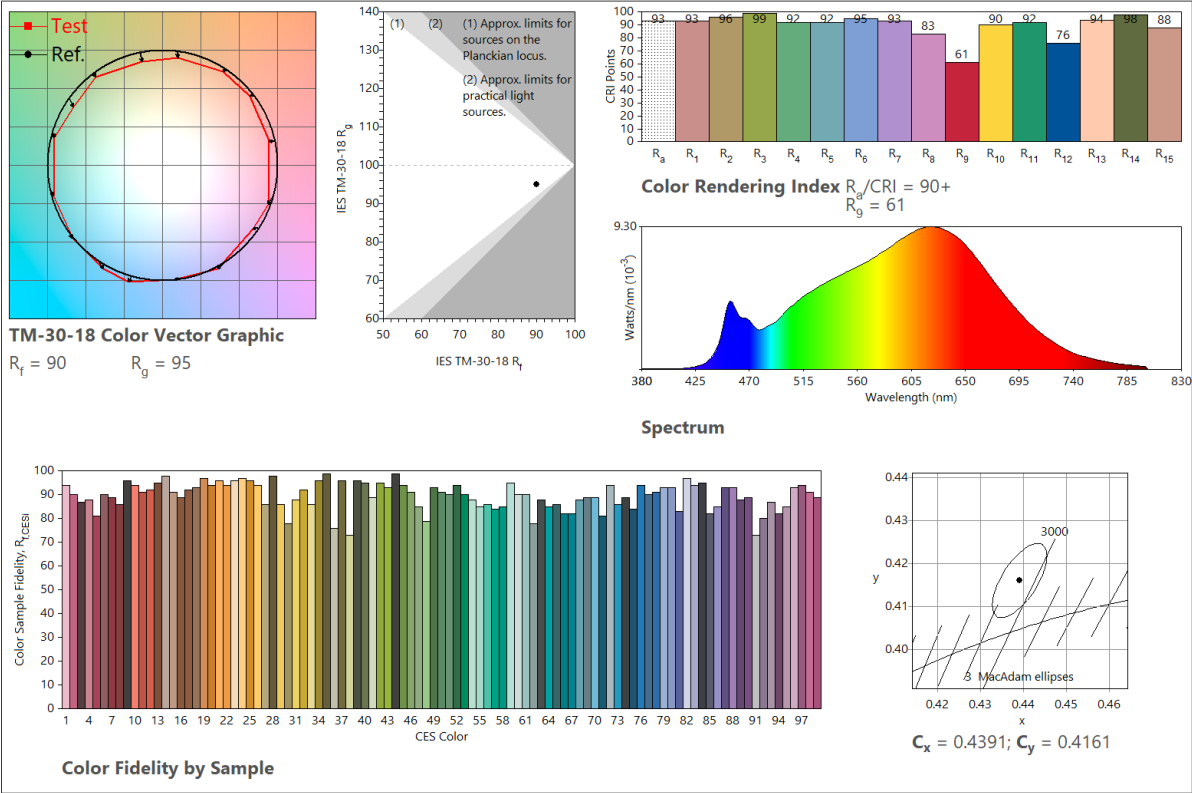
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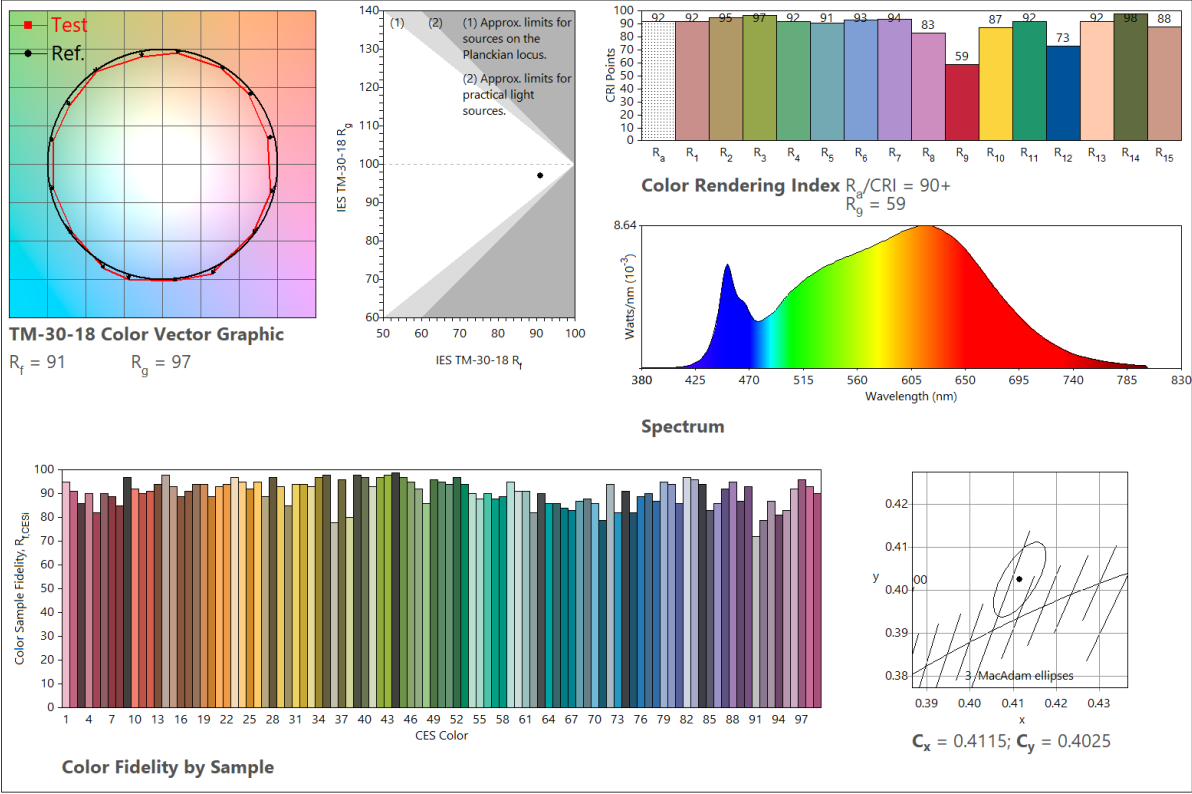
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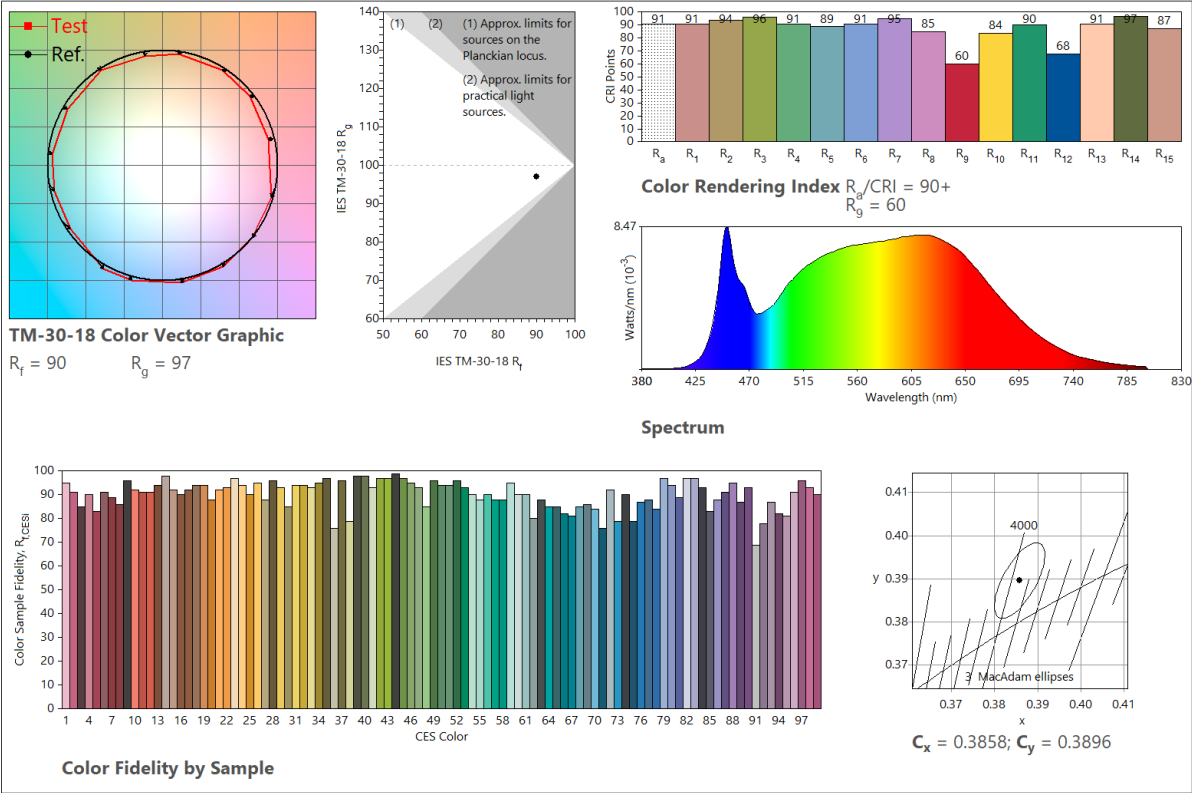
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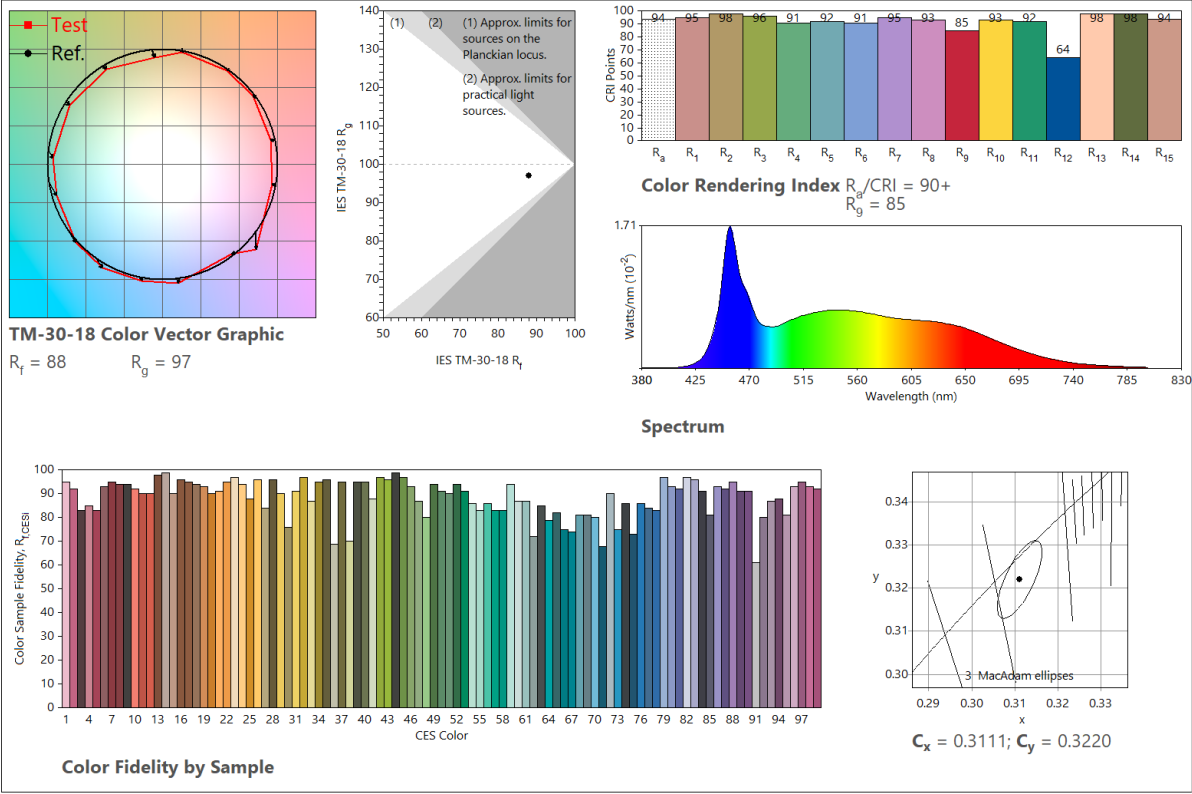
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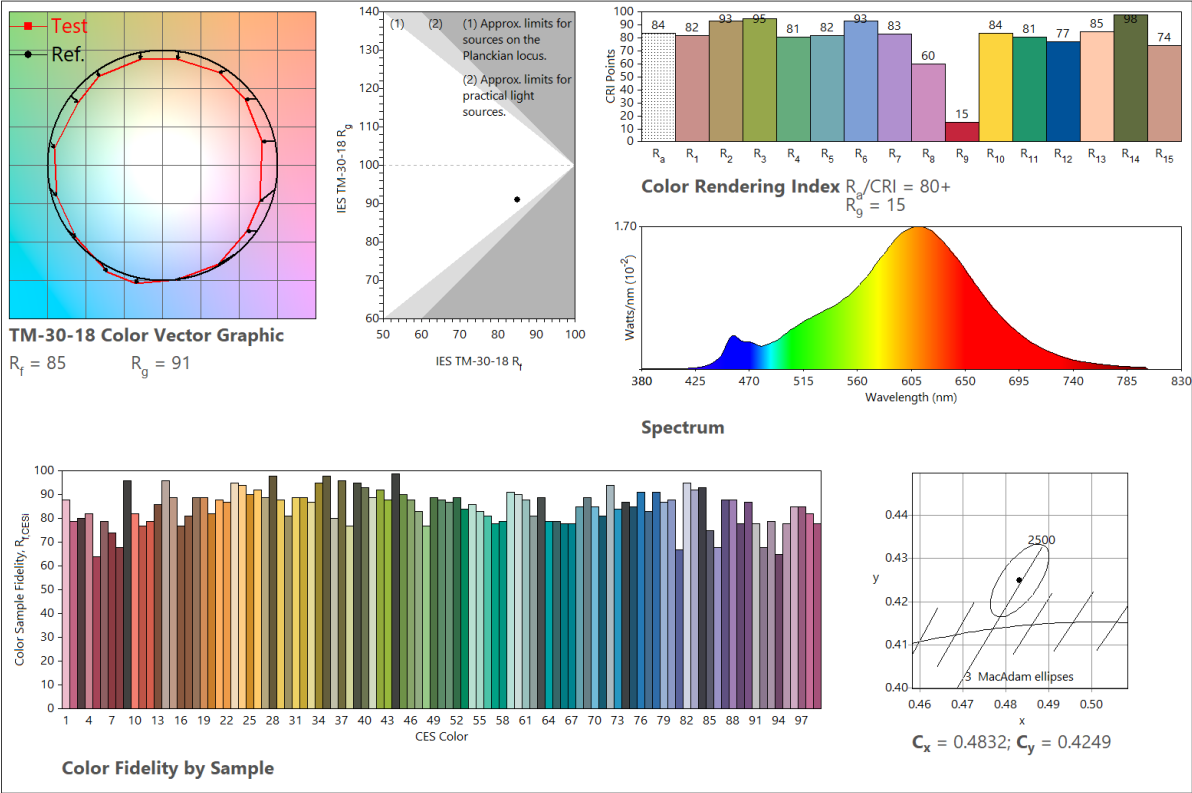
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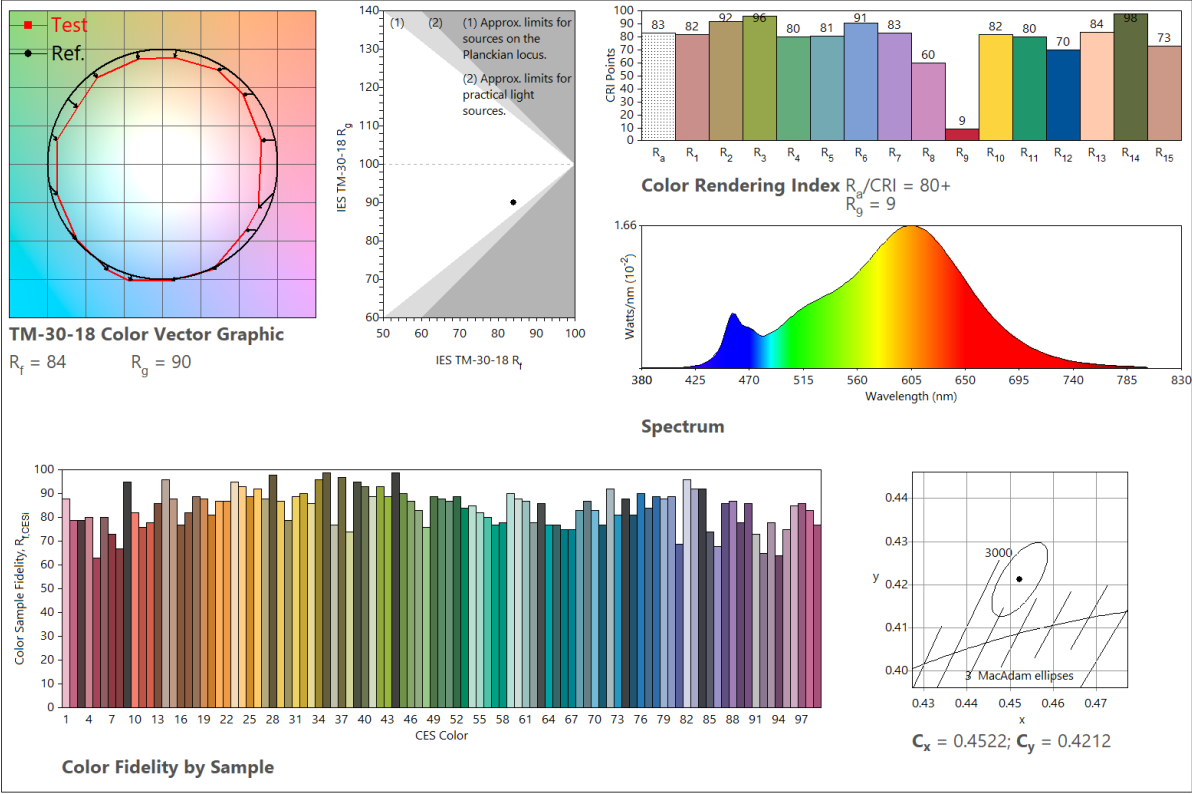
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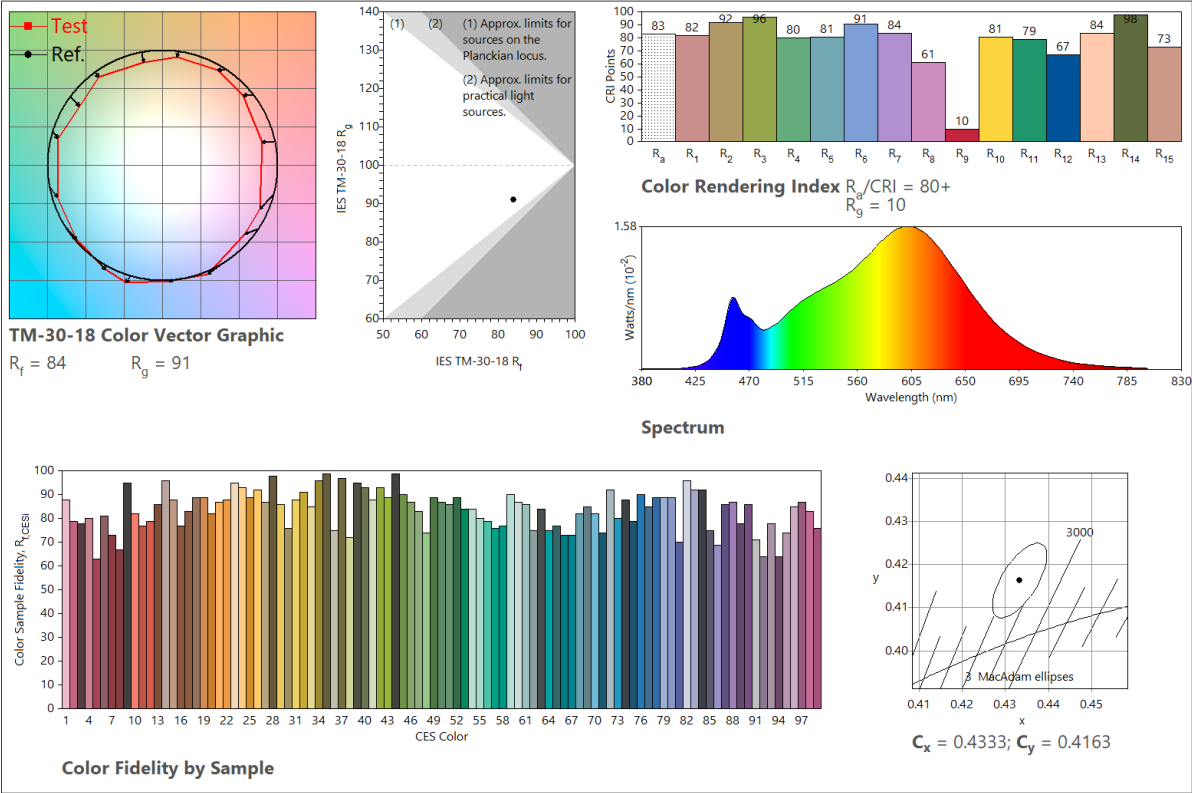
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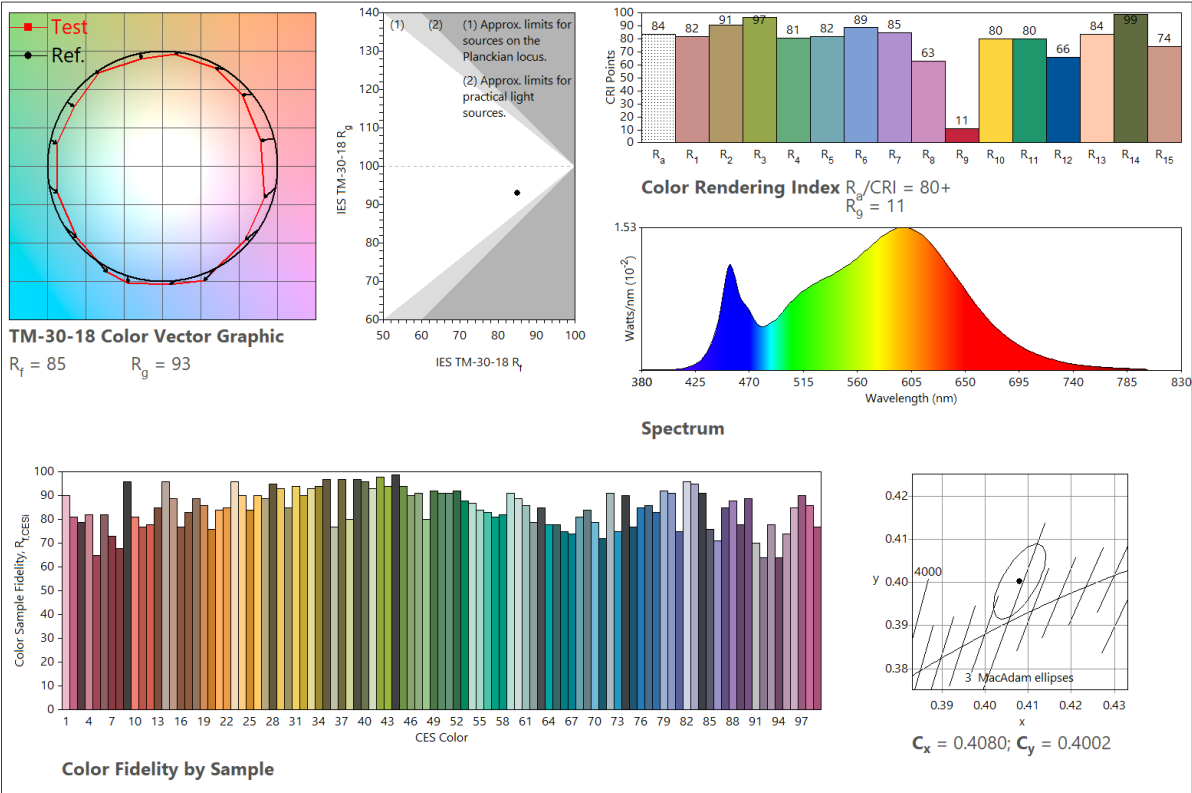
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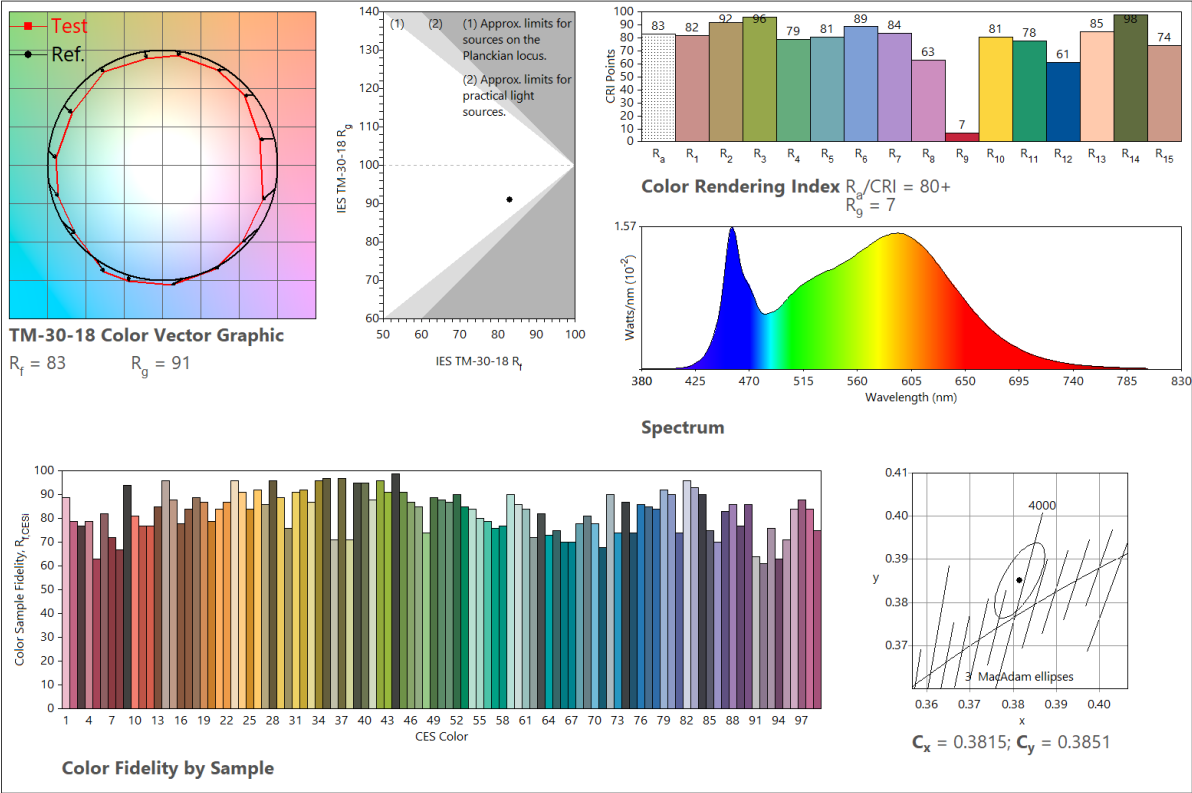
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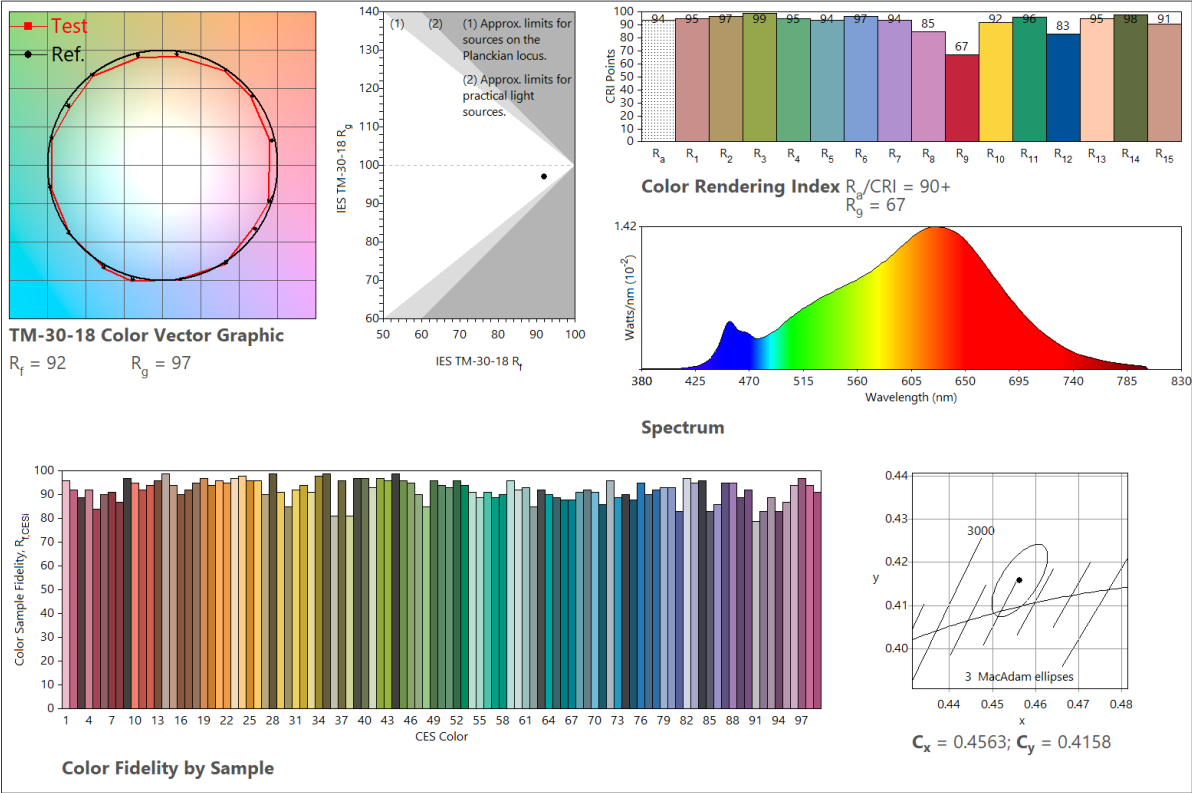
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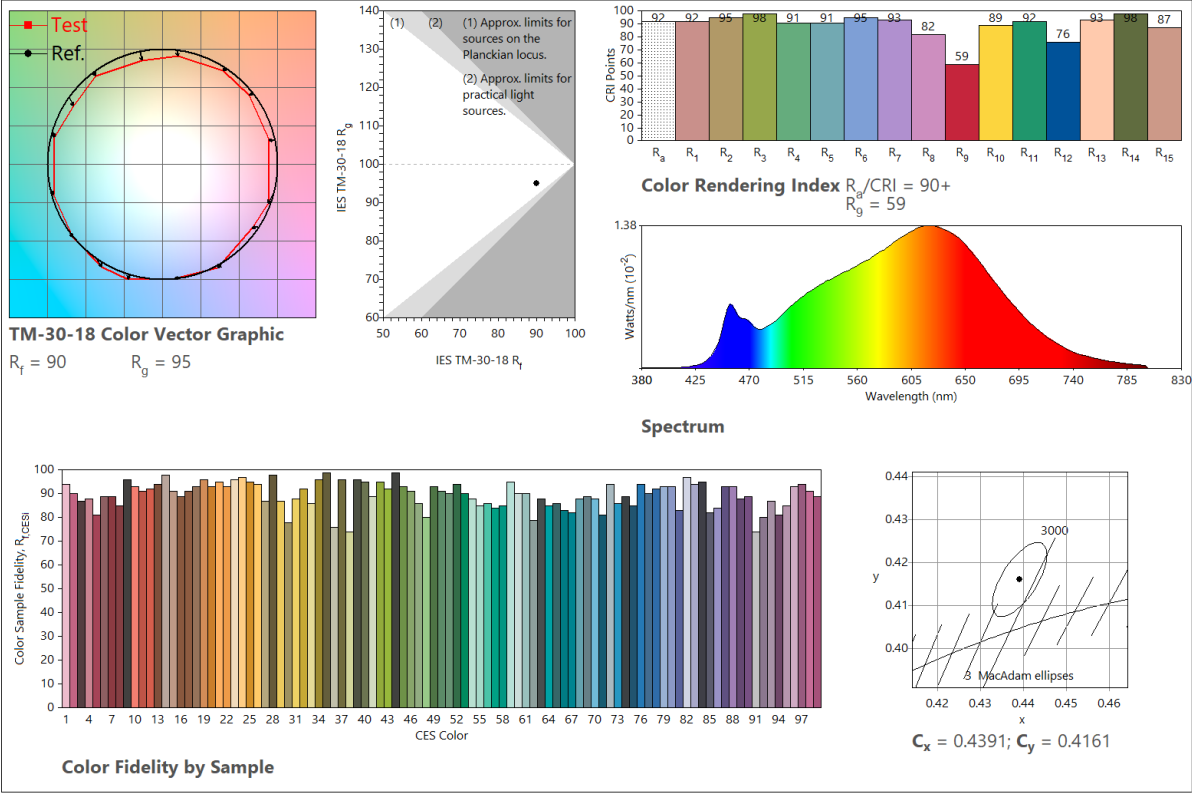
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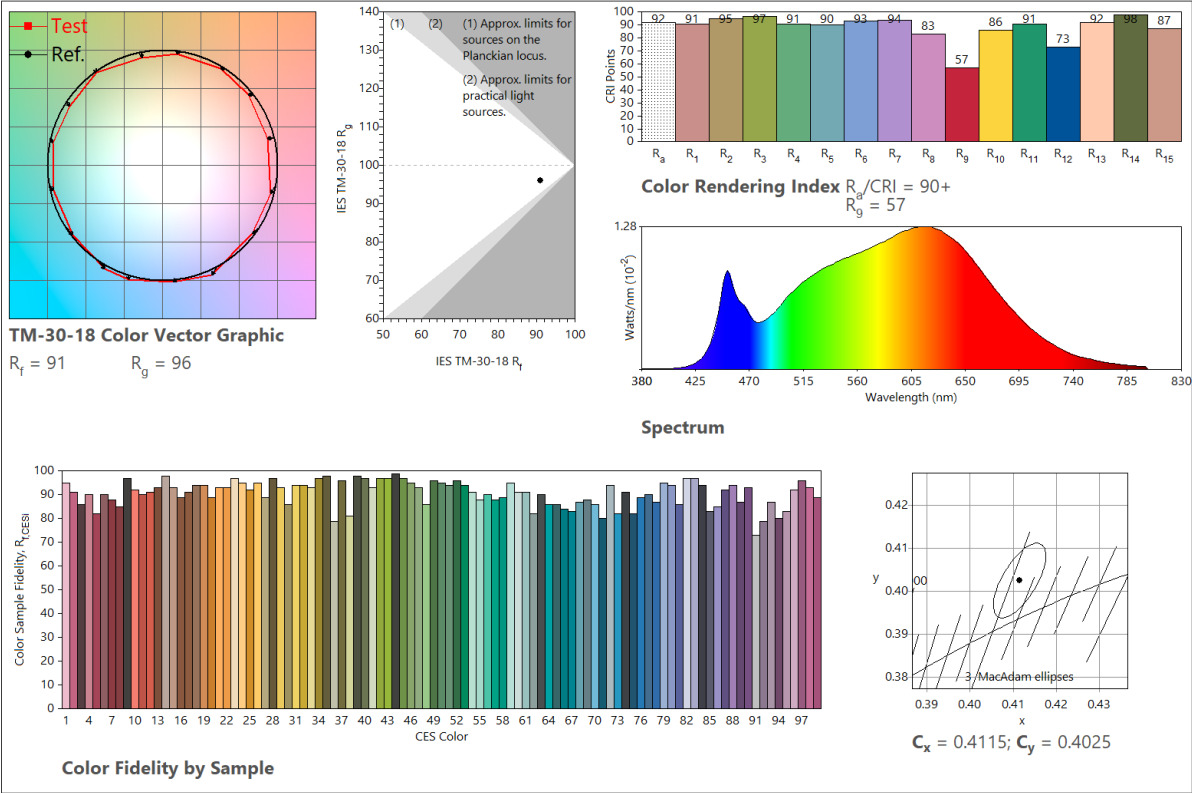
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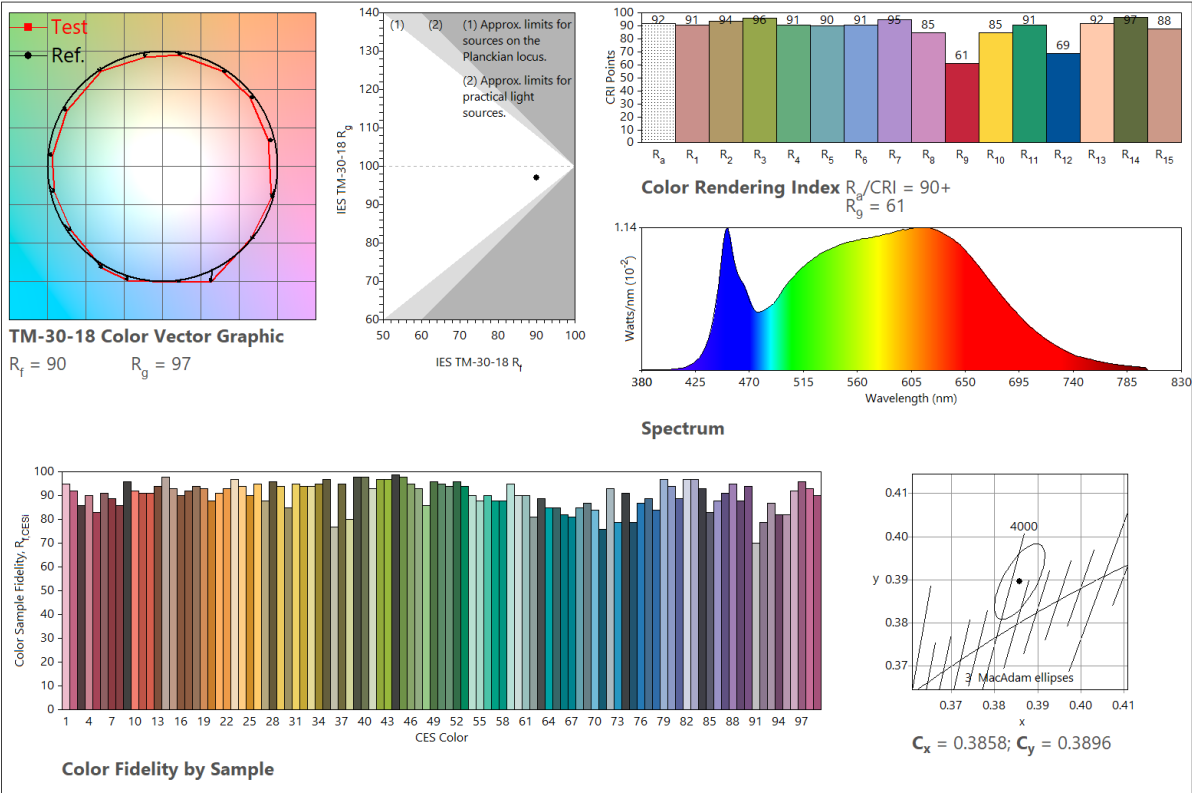
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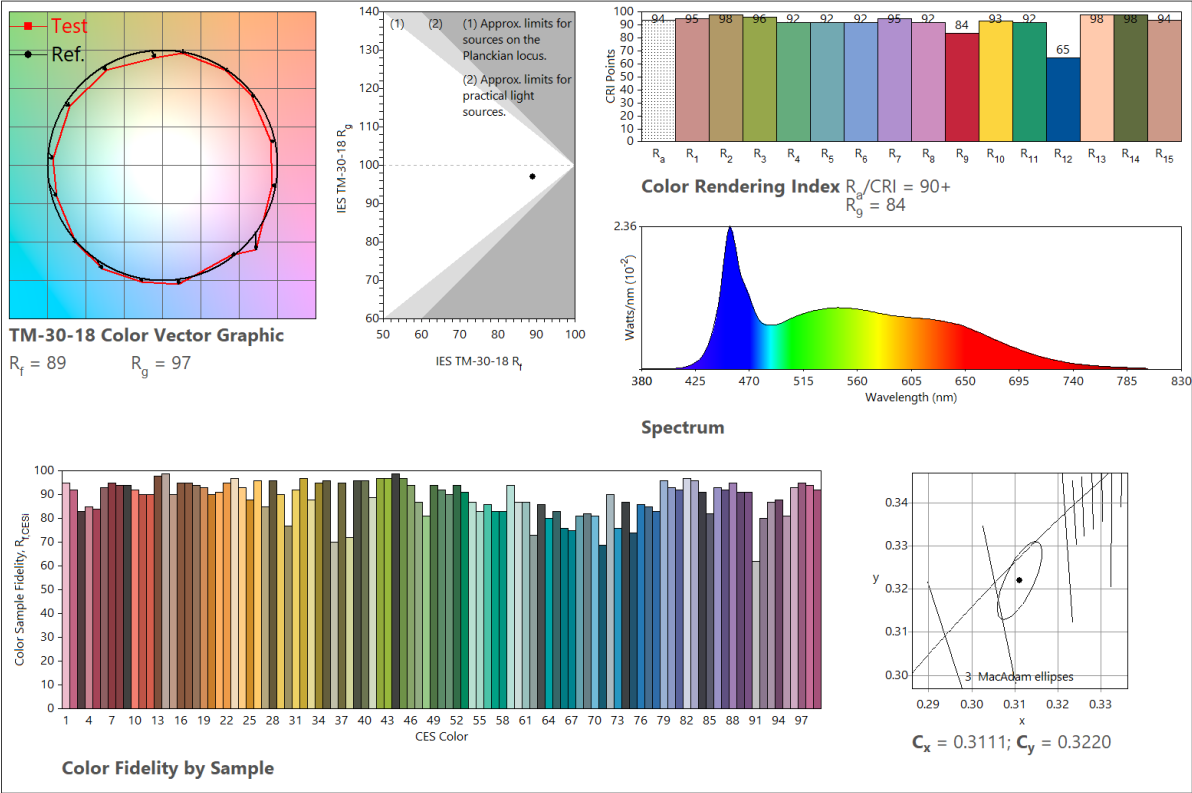
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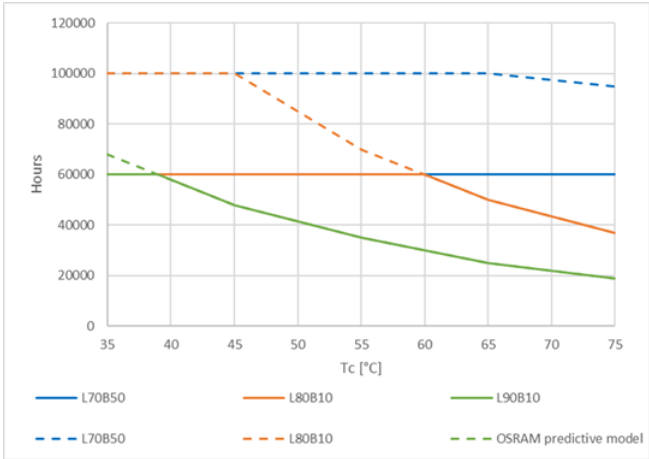


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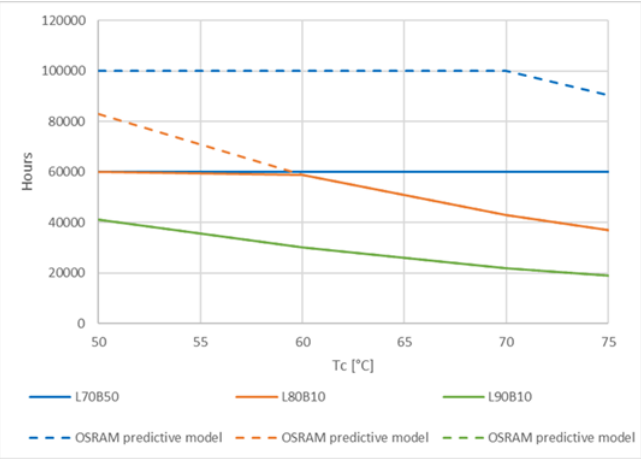


Lifetime

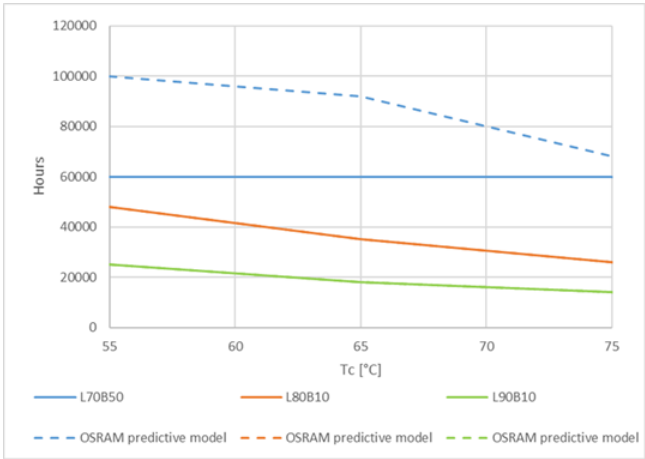
LFD400T



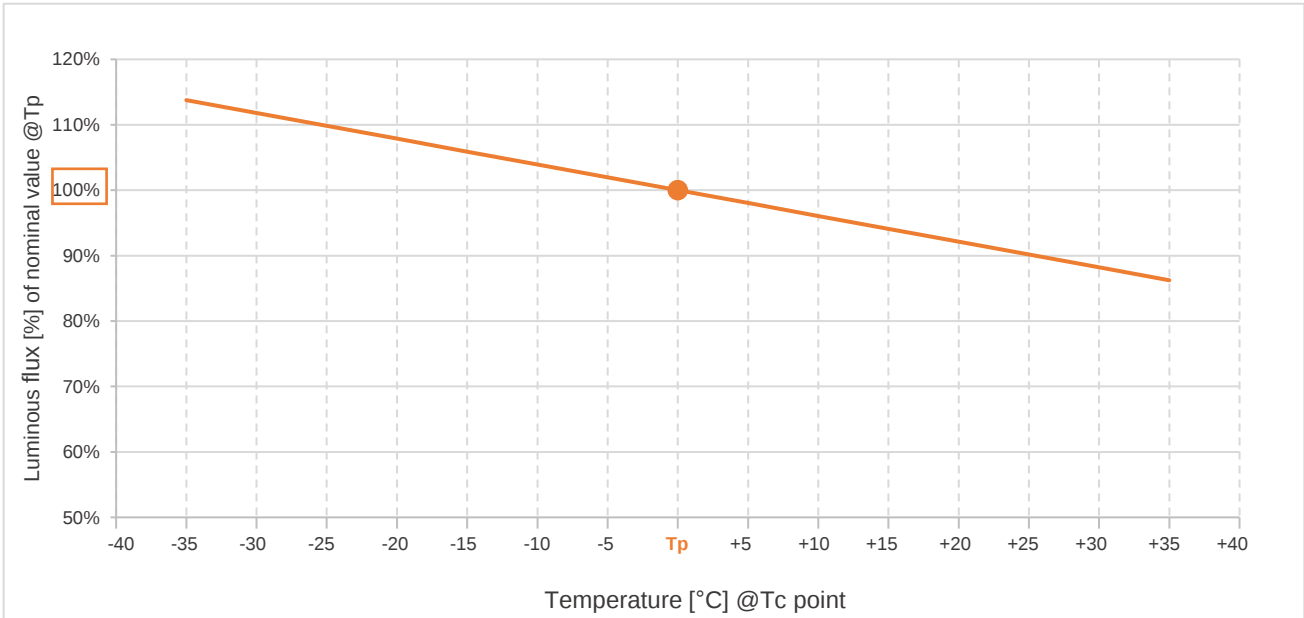
LFD800T



LFD1300T



Luminous Flux vs Tc temperature



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-G2-824-10	4062172273756	519 x 167 x 525 mm	1x LED strip
LFD400T-G2-827-10	4062172273770	519 x 167 x 525 mm	1x LED strip
LFD400T-G2-830-10	4062172273794	519 x 167 x 525 mm	1x LED strip
LFD400T-G2-835-10	4062172273817	519 x 167 x 525 mm	1x LED strip
LFD400T-G2-840-10	4062172273831	519 x 167 x 525 mm	1x LED strip
LFD400T-G2-865-10	4062172273855	519 x 167 x 525 mm	1x LED strip
LFD400T-G2-924-10	4062172273879	519 x 167 x 525 mm	1x LED strip
LFD400T-G2-927-10	4062172273893	519 x 167 x 525 mm	1x LED strip
LFD400T-G2-930-10	4062172273916	519 x 167 x 525 mm	1x LED strip
LFD400T-G2-935-10	4062172273930	519 x 167 x 525 mm	1x LED strip
LFD400T-G2-940-10	4062172273954	519 x 167 x 525 mm	1x LED strip
LFD400T-G2-965-10	4062172273978	519 x 167 x 525 mm	1x LED strip
LFD800T-G2-824-06	4062172270373	420 x 232 x 430 mm	1x LED strip
LFD800T-G2-827-06	4062172270397	420 x 232 x 430 mm	1x LED strip
LFD800T-G2-830-06	4062172270410	420 x 232 x 430 mm	1x LED strip
LFD800T-G2-835-06	4062172270434	420 x 232 x 430 mm	1x LED strip
LFD800T-G2-840-06	4062172270458	420 x 232 x 430 mm	1x LED strip
LFD800T-G2-865-06	4062172270472	420 x 232 x 430 mm	1x LED strip
LFD800T-G2-924-06	4062172270496	420 x 232 x 430 mm	1x LED strip
LFD800T-G2-927-06	4062172270519	420 x 232 x 430 mm	1x LED strip
LFD800T-G2-930-06	4062172270533	420 x 232 x 430 mm	1x LED strip
LFD800T-G2-935-06	4062172270557	420 x 232 x 430 mm	1x LED strip
LFD800T-G2-940-06	4062172270571	420 x 232 x 430 mm	1x LED strip
LFD800T-G2-965-06	4062172270595	420 x 232 x 430 mm	1x LED strip
LFD1300T-G2-824-04	4062172270854	420 x 232 x 430 mm	1x LED strip
LFD1300T-G2-827-04	4062172270878	420 x 232 x 430 mm	1x LED strip
LFD1300T-G2-830-04	4062172270892	420 x 232 x 430 mm	1x LED strip
LFD1300T-G2-835-04	4062172270915	420 x 232 x 430 mm	1x LED strip
LFD1300T-G2-840-04	4062172270939	420 x 232 x 430 mm	1x LED strip
LFD1300T-G2-865-04	4062172270953	420 x 232 x 430 mm	1x LED strip
LFD1300T-G2-927-04	4062172270991	420 x 232 x 430 mm	1x LED strip
LFD1300T-G2-930-04	4062172271011	420 x 232 x 430 mm	1x LED strip
LFD1300T-G2-935-04	4062172271035	420 x 232 x 430 mm	1x LED strip
LFD1300T-G2-940-04	4062172271059	420 x 232 x 430 mm	1x LED strip
LFD1300T-G2-965-04	4062172271073	420 x 232 x 430 mm	1x 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-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

Ambient temperature – operating considerations

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 RECESSED MOUNTING					
			LFD400T	LFD800T	LFD1300T
Profile Type	Product description	Product code (EAN)	Ambient Temperature °C		
 Top profile	FX-LFDM -G1-TT-16H16-200	4052899544949	55	50	45
 Top profile wing	FX-LFDM -G1-TTL-16H11W10-200	4052899544963	55	50	45
Without any profile			55	45	35

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	LFD800T	LFD1300T
Profile Type	Product description	Product code (EAN)	Ambient Temperature °C		
 Top profile	FX-LFDM -G1-TT-16H16-200	4052899544949	55	50	45
 Top profile wing	FX-LFDM -G1-TTL-16H11W10-200	4052899544963	55	50	50
Without any profile			55	45	35

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 support-ds@osram.com or consult our Flex Configurator at www.osram.com/flex-configurator

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..... 600 lm/m..... 800 lm/m..... 1000 lm/m..... 1300 lm/m.....		400 600 800 1000 1300									
Model Top..... Side.....			T S								
Light tone 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.....				824 827 830 835 840 865 924 927 930 935 940 965							
Length From 10 to 1000 cm					10 100 1000						
Connection Connector..... Bottom cable..... End cable						C B E					
Adhesive tape Tape..... No tape.....							T X				
Wiring One end..... Both ends.....								L1 L2			
Wire length 50-500 cm									50 100 150 200 250 300 350 400 450 500		
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 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 font.