inventronics

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/mIP67 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

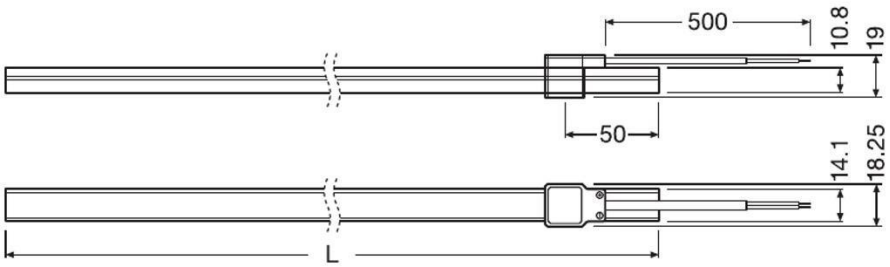
CE, UKCA, ENEC

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

10 Years INVENTRONICS System Guarantee | Made in ITALY | Safe Dimming SDT Technology | 3500K 2000K 6500K Custom CCT | Up to 50m | > xxm Custom | UP to 74lm/W | UKCA | CE | c UL us

Technical drawings

LFD400 / LFD800 / LFD1300 TOP

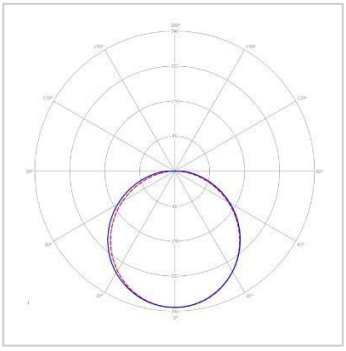


Min. bending radius = 100 mm
All dimensions in: mm

Max. operable length = product length

L: 10m **for LFD400T**
6m **for LFD800T**
4m **for LFD1300T**

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



Beam Angle 120°

Technical data

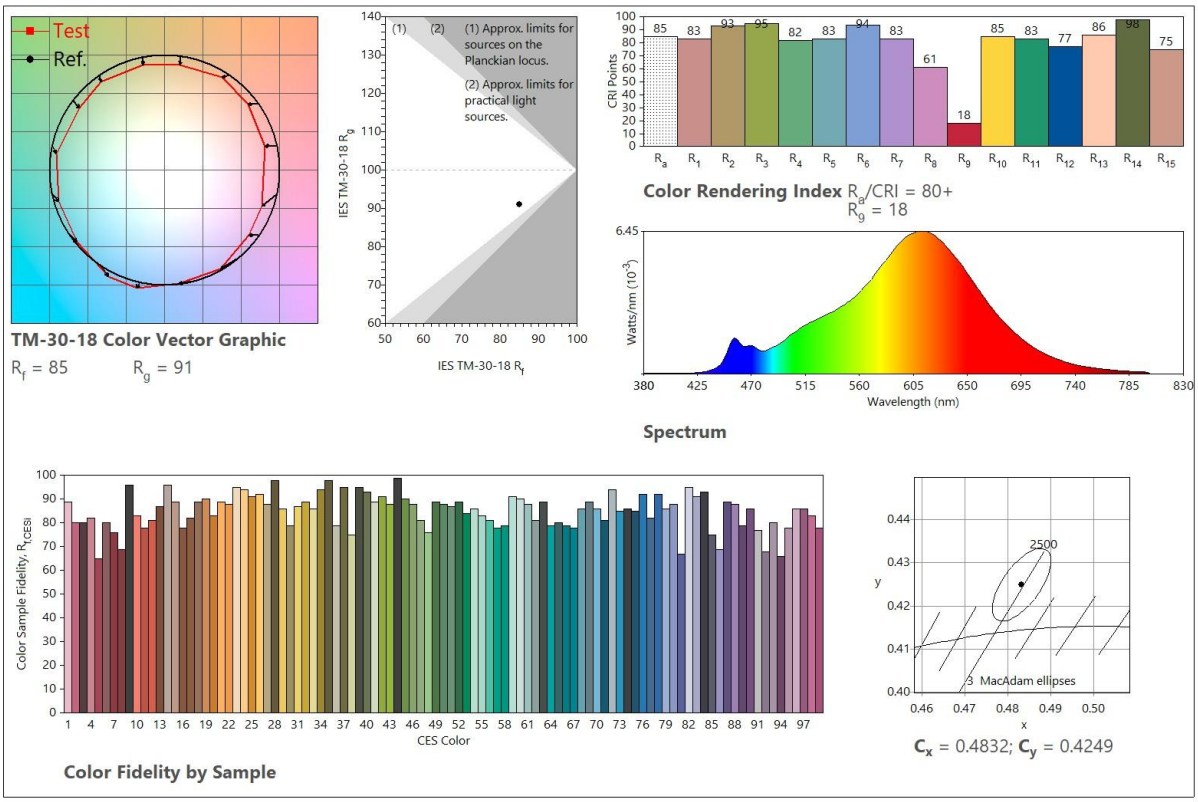
LFD400T White	Nominal CCT See color output data	CRI	Luminous Flux per meter lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LFD400T-G2-824-10	2400 K	>80	520	7.3	71	35	10
LFD400T-G2-827-10	2700 K	>80	560	7.3	77	35	10
LFD400T-G2-830-10	3000 K	>80	600	7.3	82	35	10
LFD400T-G2-840-10	4000 K	>80	600	7.3	82	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-G2-940-10	4000 K	>90	510	7.3	70	35	10

LFD800T 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
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-G2-840-06	4000 K	>80	1050	13.5	78	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-G2-940-06	4000 K	>90	910	13.5	67	50	6

LFD1300T 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
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-G2-840-04	4000 K	>80	1550	21	74	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-G2-940-04	4000 K	>90	1340	21	64	55	4

Color output data

LFD400T-G2-824-10

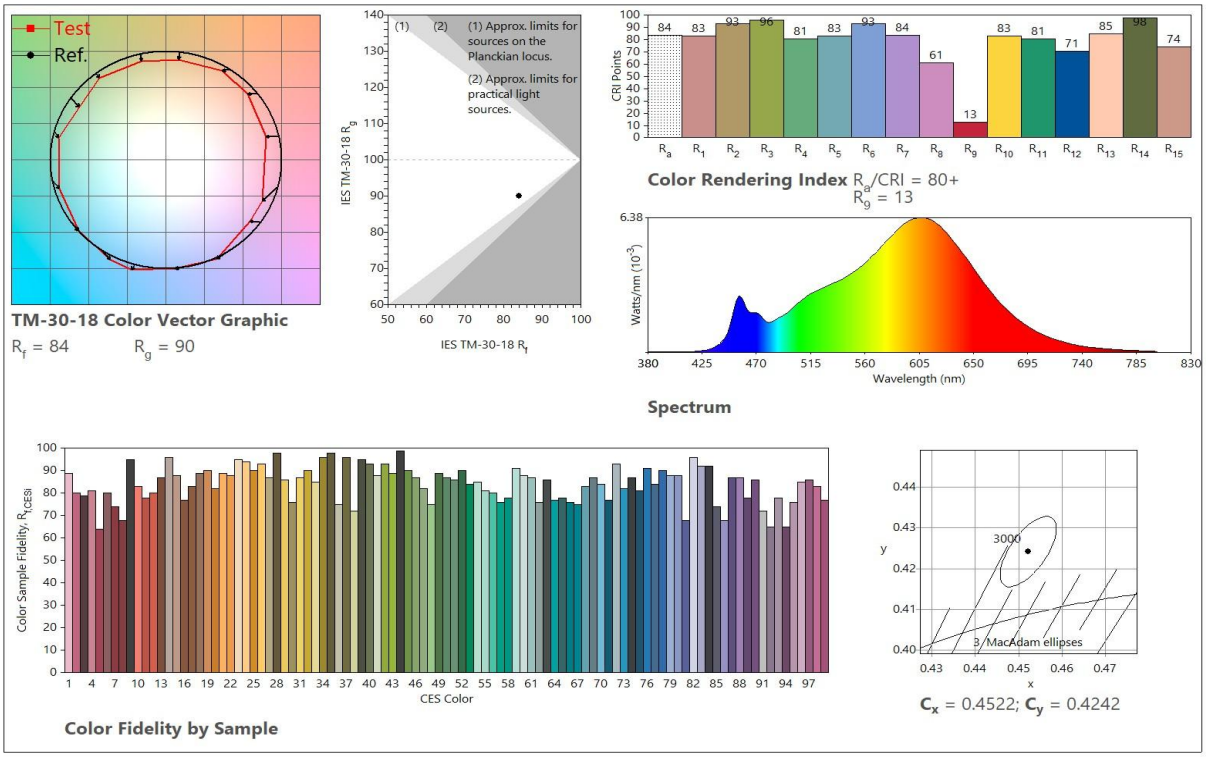


TM-30-18 Color Vector Graphic

R_f = 85 R_g = 91

C_x = 0.4832; C_y = 0.4249

LFD400T-G2-827-10



TM-30-18 Color Vector Graphic

R_f = 84 R_g = 90

C_x = 0.4522; C_y = 0.4242

LFD400T-G2-830-10

TM-30-18 Color Vector Graphic

R_f = 84 R_g = 91

Color Rendering Index R_a/CRI = 80+
R_g = 13

Spectrum

Color Fidelity by Sample

C_x = 0.4333; C_y = 0.4163

LFD400T-G2-840-10

TM-30-18 Color Vector Graphic

R_f = 83 R_g = 91

Color Rendering Index R_a/CRI = 80+
R_g = 10

Spectrum

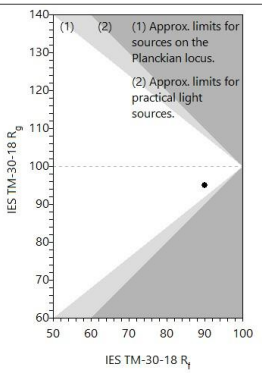
Color Fidelity by Sample

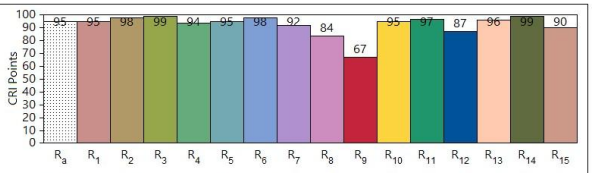
C_x = 0.3815; C_y = 0.3851

LFD400T-G2-924-10

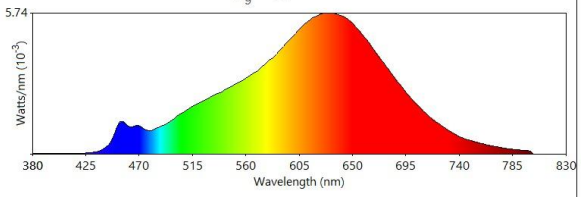
TM-30-18 Color Vector Graphic

R_f = 90 R_g = 95

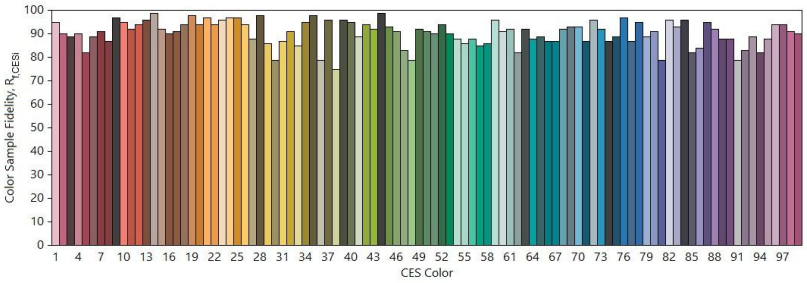




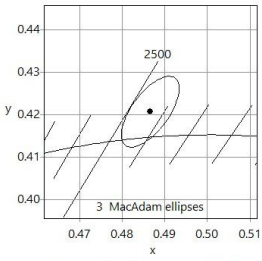
Color Rendering Index R_a/CRI = 95+
R_g = 67



Spectrum



Color Fidelity by Sample

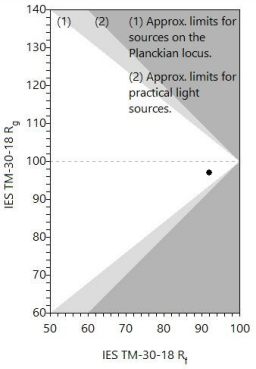


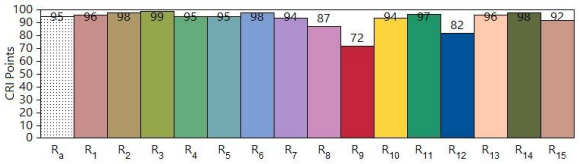
C_x = 0.4866; C_y = 0.4207

LFD400T-G2-927-10

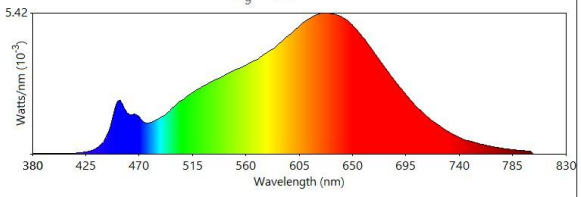
TM-30-18 Color Vector Graphic

R_f = 92 R_g = 97

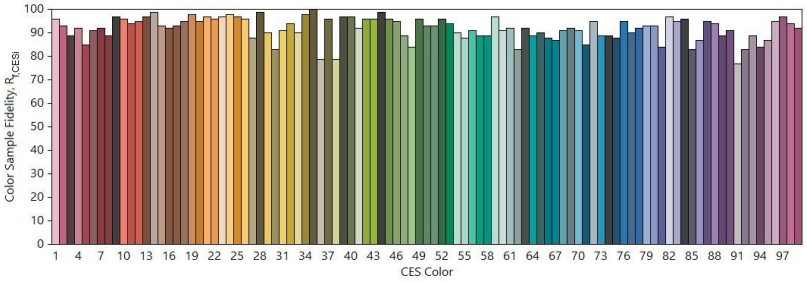




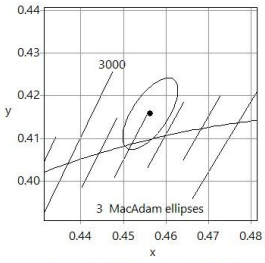
Color Rendering Index R_a/CRI = 95+
R_g = 72



Spectrum



Color Fidelity by Sample



C_x = 0.4563; C_y = 0.4158

LFD400T-G2-930-10

TM-30-18 Color Vector Graphic

R_f = 90 R_g = 95

Color Rendering Index R_a/CRI = 90+
R_g = 63

Spectrum

Color Fidelity by Sample

C_x = 0.4391; C_y = 0.4161

LFD400T-G2-940-10

TM-30-18 Color Vector Graphic

R_f = 90 R_g = 97

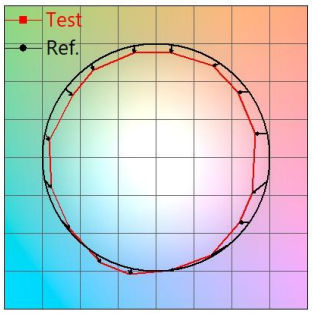
Color Rendering Index R_a/CRI = 90+
R_g = 61

Spectrum

Color Fidelity by Sample

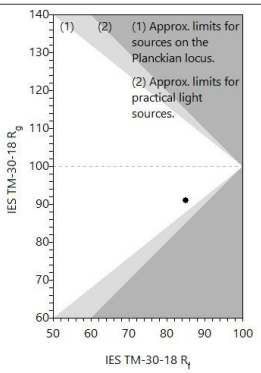
C_x = 0.3858; C_y = 0.3896

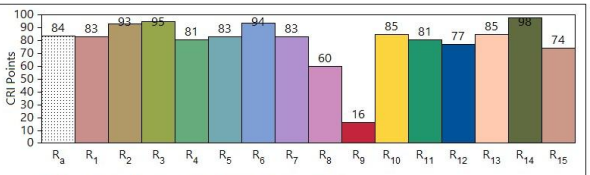
LFD800T-G2-824-06



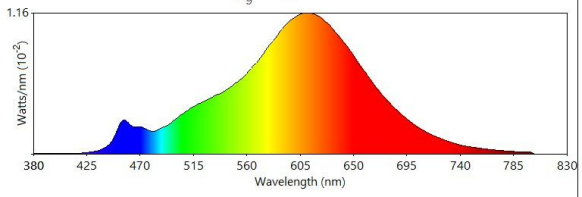
TM-30-18 Color Vector Graphic

R_f = 85 R_g = 91

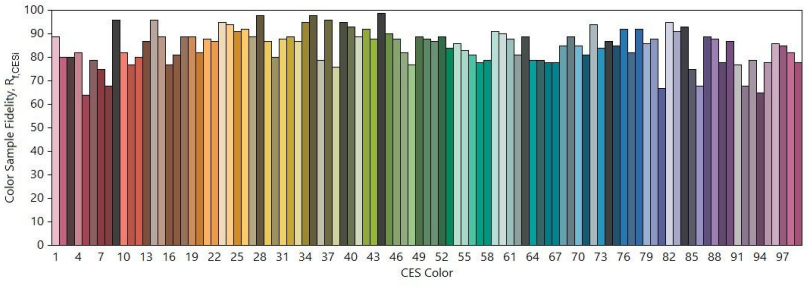




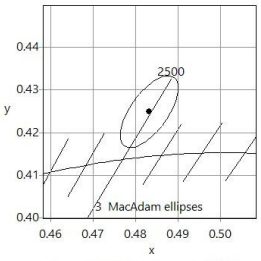
Color Rendering Index R_a/CRI = 80+
R_g = 16



Spectrum

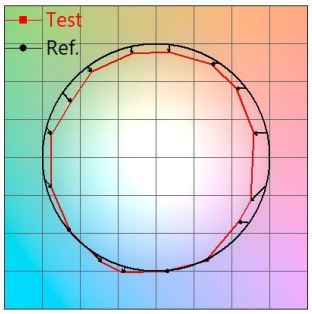


Color Fidelity by Sample



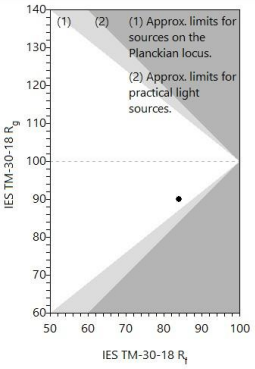
C_x = 0.4832; C_y = 0.4249

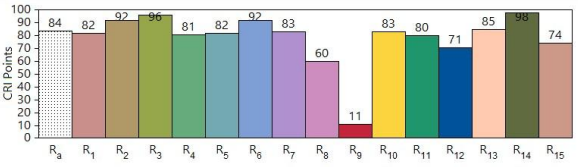
LFD800T-G2-827-06



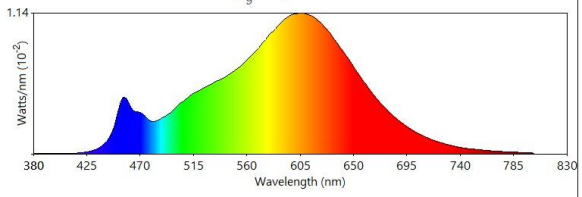
TM-30-18 Color Vector Graphic

R_f = 84 R_g = 90

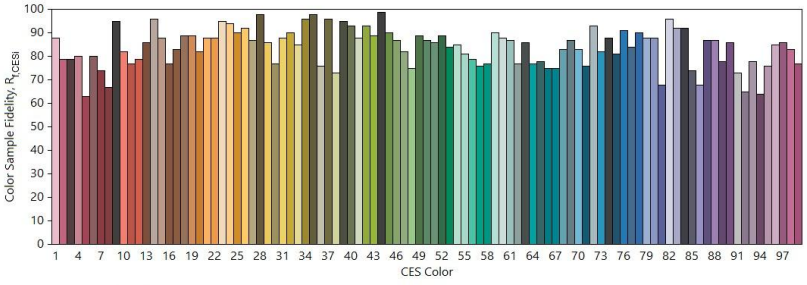




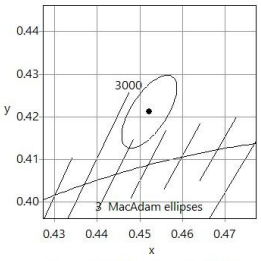
Color Rendering Index R_a/CRI = 80+
R_g = 11



Spectrum

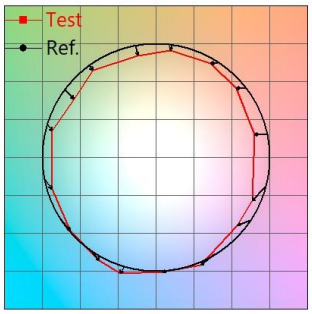


Color Fidelity by Sample



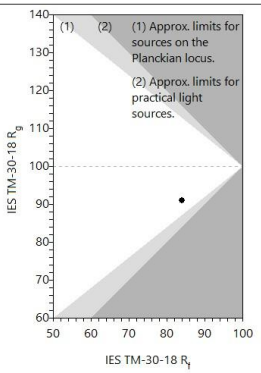
C_x = 0.4522; C_y = 0.4212

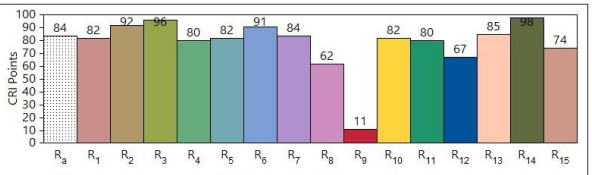
LFD800T-G2-830-06



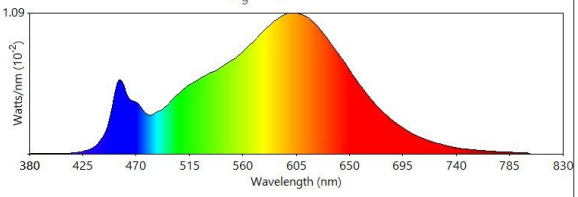
TM-30-18 Color Vector Graphic

R_f = 84 R_g = 91

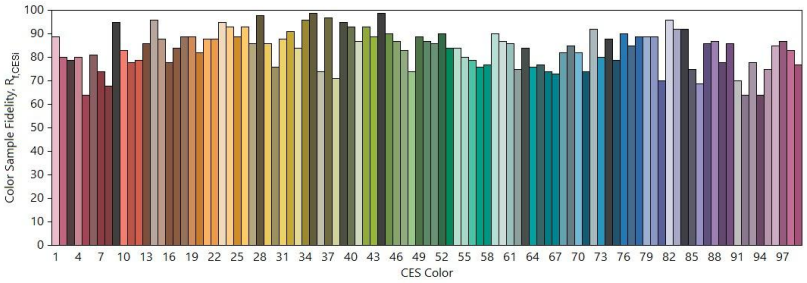




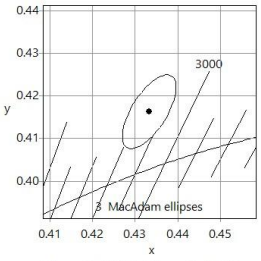
Color Rendering Index R_a/CRI = 80+
R_g = 11



Spectrum

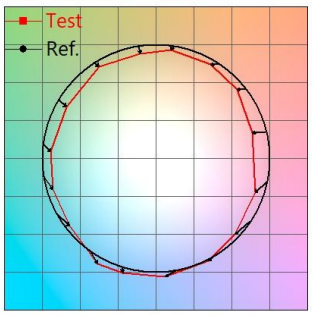


Color Fidelity by Sample



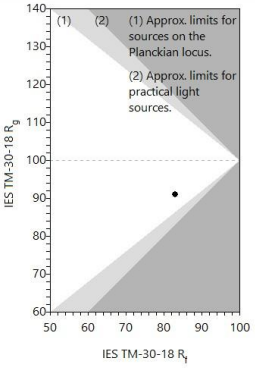
C_x = 0.4333; C_y = 0.4163

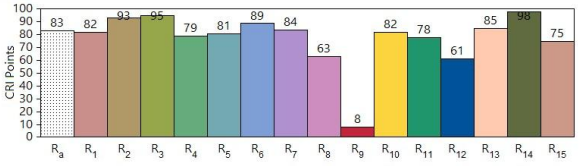
LFD800T-G2-840-06



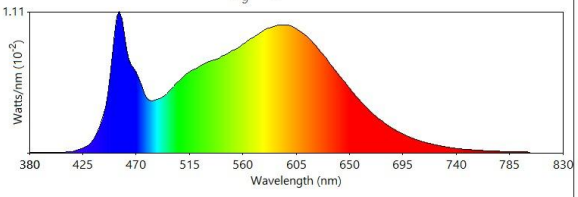
TM-30-18 Color Vector Graphic

R_f = 83 R_g = 91

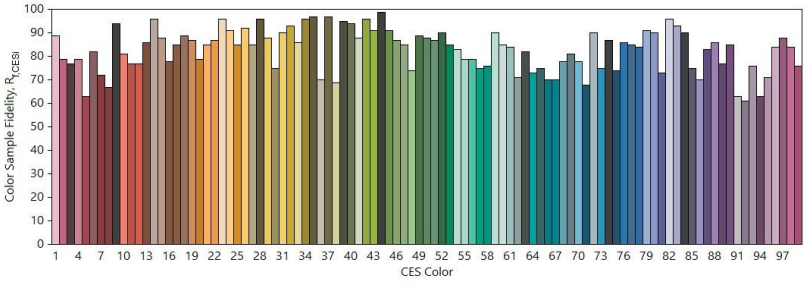




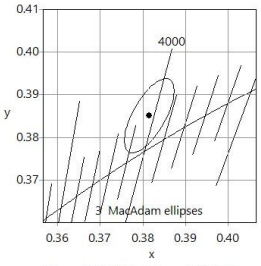
Color Rendering Index R_a/CRI = 80+
R_g = 8



Spectrum



Color Fidelity by Sample

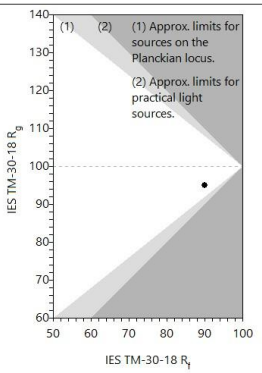


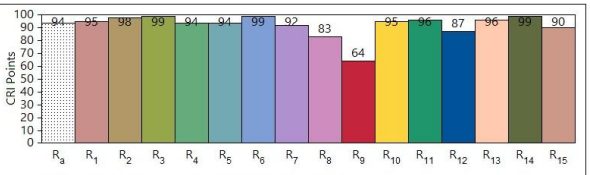
C_x = 0.3815; C_y = 0.3851

LFD800T-G2-924-06

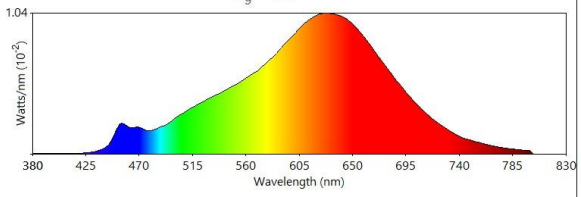
TM-30-18 Color Vector Graphic

R_f = 90 R_g = 95

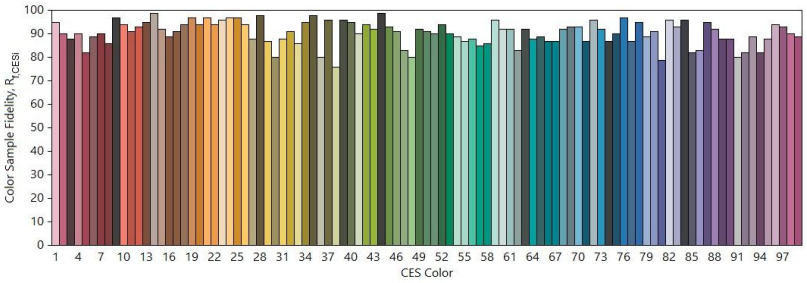




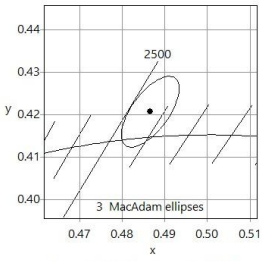
Color Rendering Index R_a/CRI = 90+
R_g = 64



Spectrum



Color Fidelity by Sample

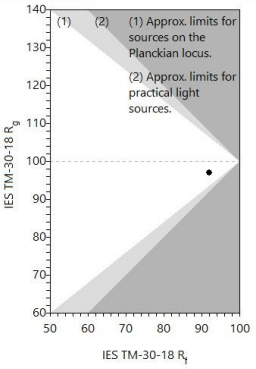


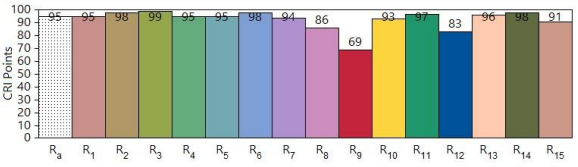
C_x = 0.4866; C_y = 0.4207

LFD800T-G2-927-06

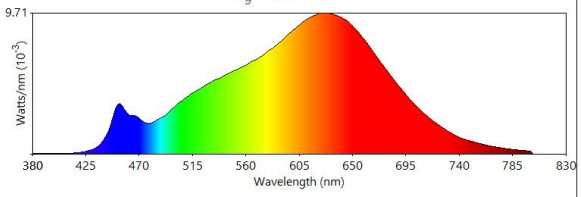
TM-30-18 Color Vector Graphic

R_f = 92 R_g = 97

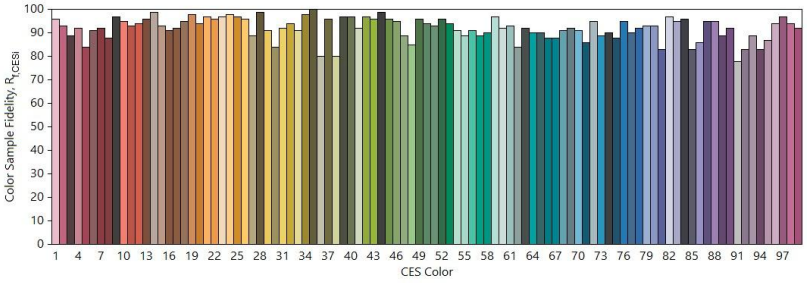




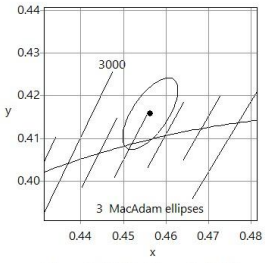
Color Rendering Index R_a/CRI = 95+
R_g = 69



Spectrum



Color Fidelity by Sample



C_x = 0.4563; C_y = 0.4158

LFD800T-G2-930-06

TM-30-18 Color Vector Graphic

R_f = 90 R_g = 95

Color Rendering Index R_a/CRI = 90+
R_g = 61

Spectrum

Color Fidelity by Sample

C_x = 0.4391; C_y = 0.4161

LFD800T-G2-940-06

TM-30-18 Color Vector Graphic

R_f = 90 R_g = 97

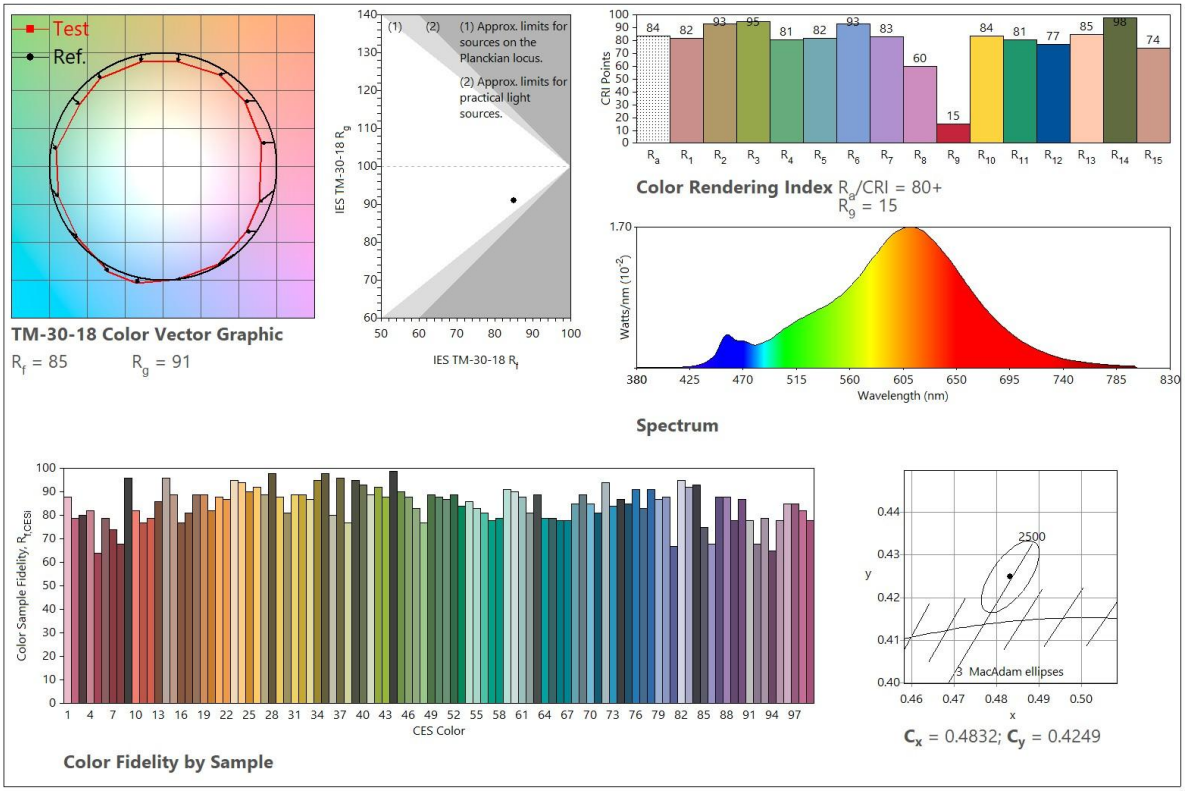
Color Rendering Index R_a/CRI = 90+
R_g = 60

Spectrum

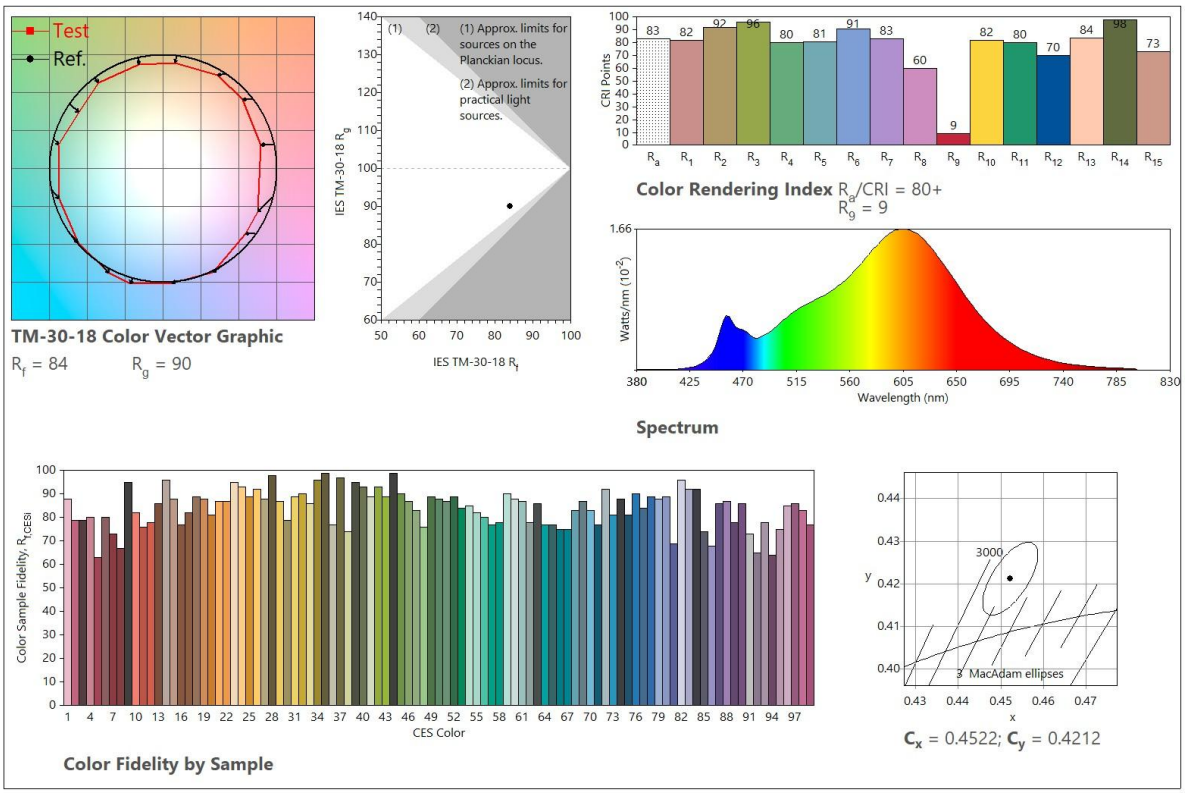
Color Fidelity by Sample

C_x = 0.3858; C_y = 0.3896

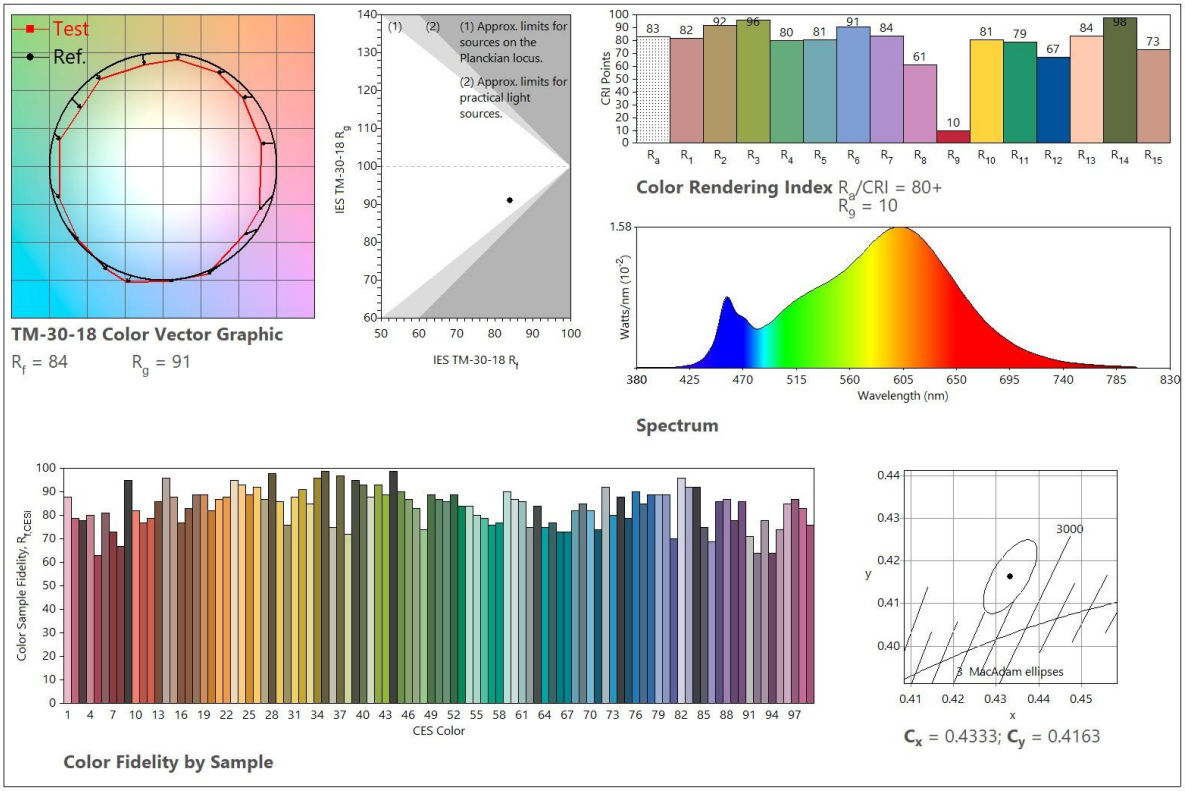
LFD1300T-G2-824-04



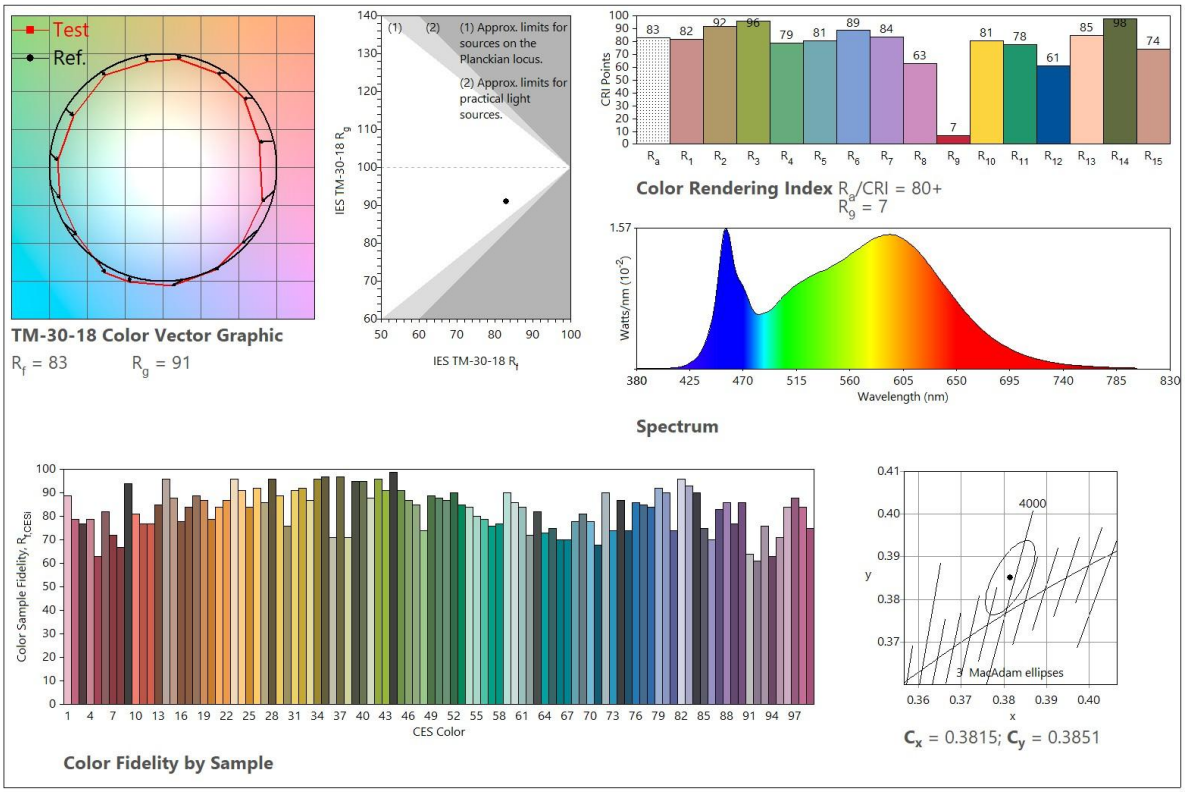
LFD1300T-G2-827-04



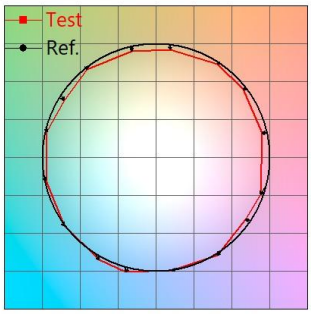
LFD1300T-G2-830-04



LFD1300T-G2-840-04

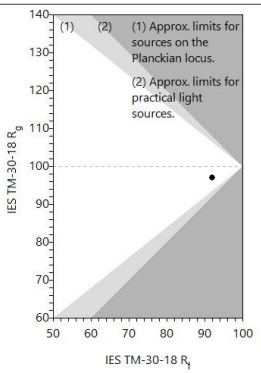


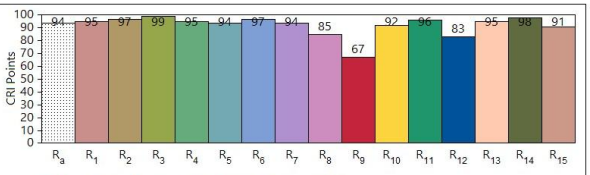
LFD1300T-G2-927-04



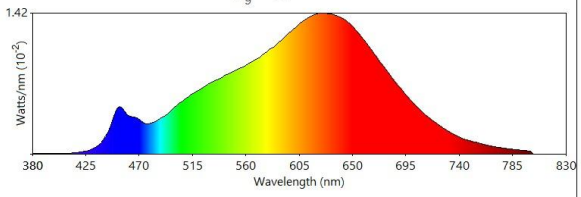
TM-30-18 Color Vector Graphic

R_f = 92 R_g = 97

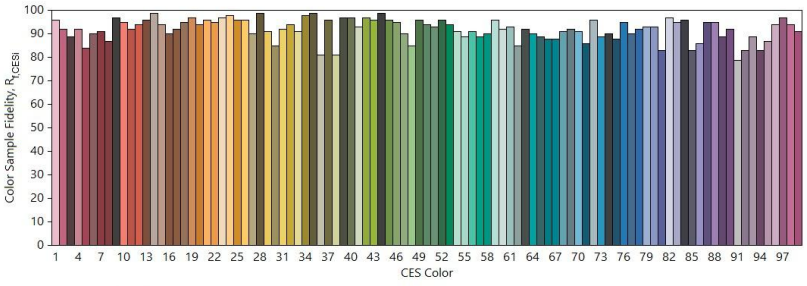




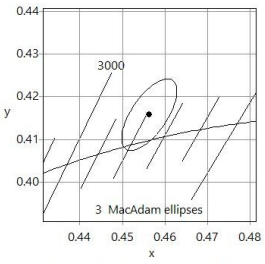
Color Rendering Index R_a/CRI = 90+
R_g = 67



Spectrum

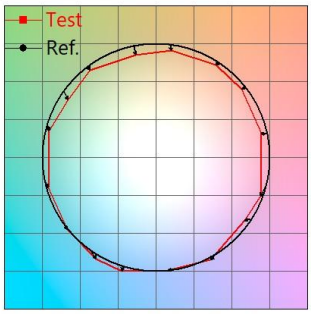


Color Fidelity by Sample



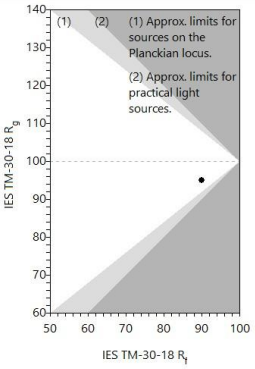
C_x = 0.4563; C_y = 0.4158

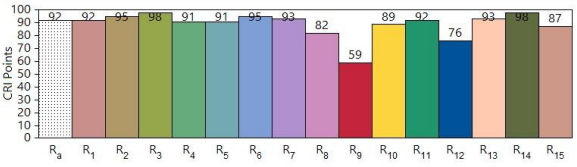
LFD1300T-G2-930-04



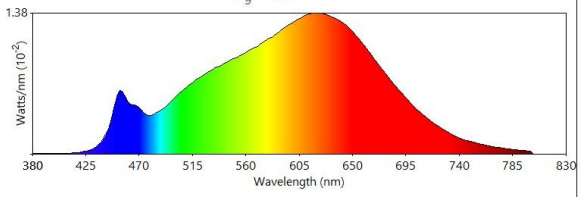
TM-30-18 Color Vector Graphic

R_f = 90 R_g = 95

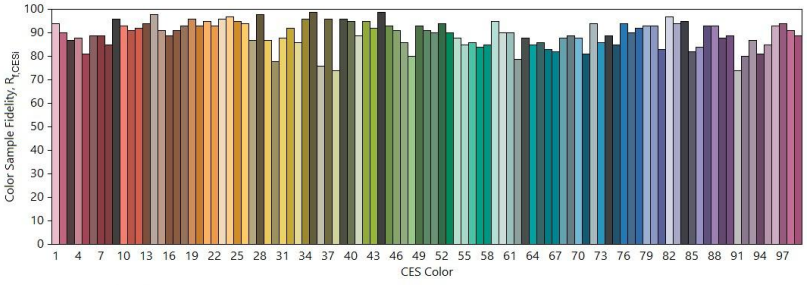




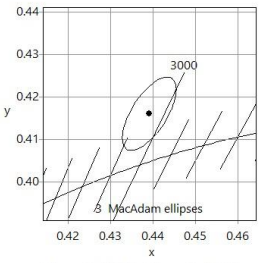
Color Rendering Index R_a/CRI = 90+
R_g = 59



Spectrum

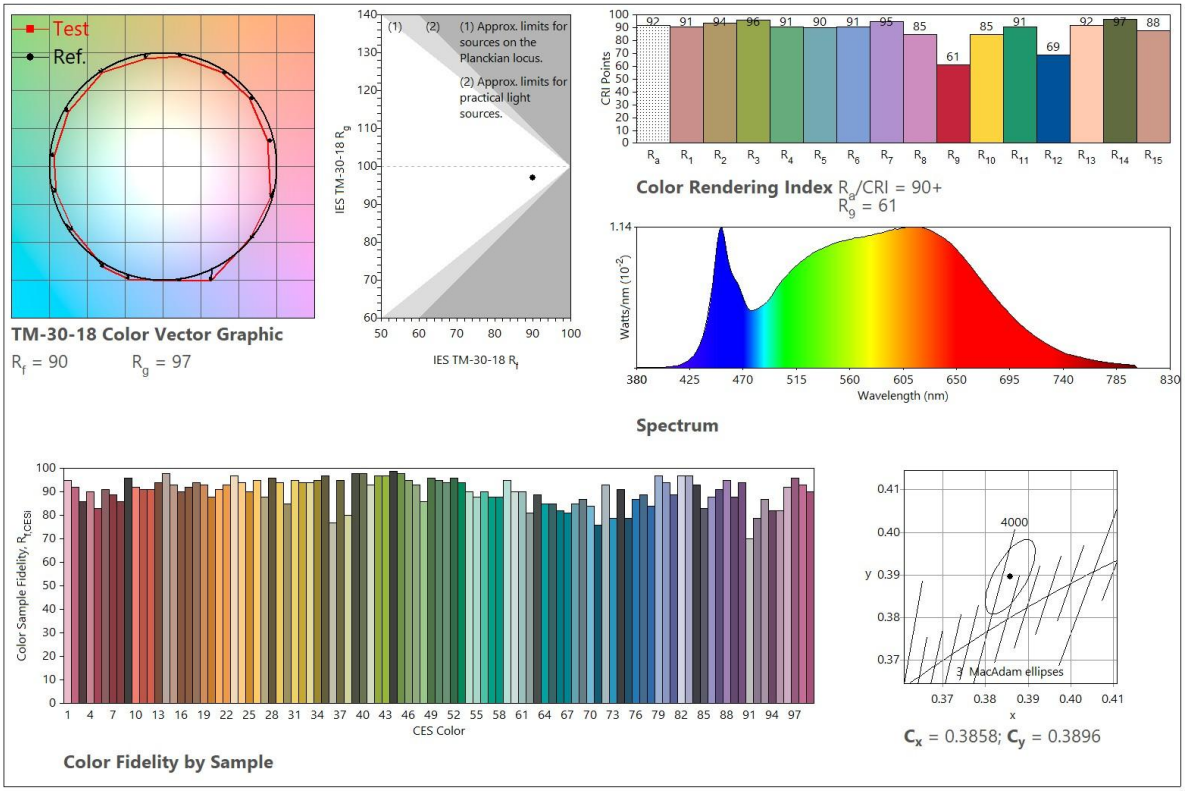


Color Fidelity by Sample

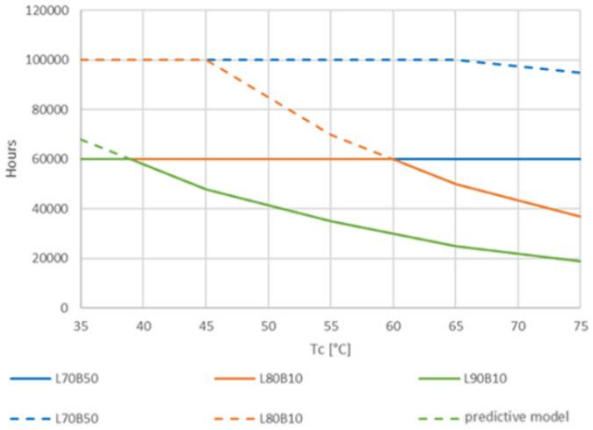


C_x = 0.4391; C_y = 0.4161

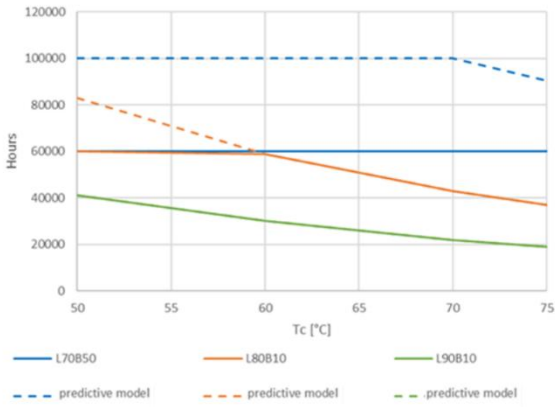
LFD1300T-G2-940-04



Lifetime

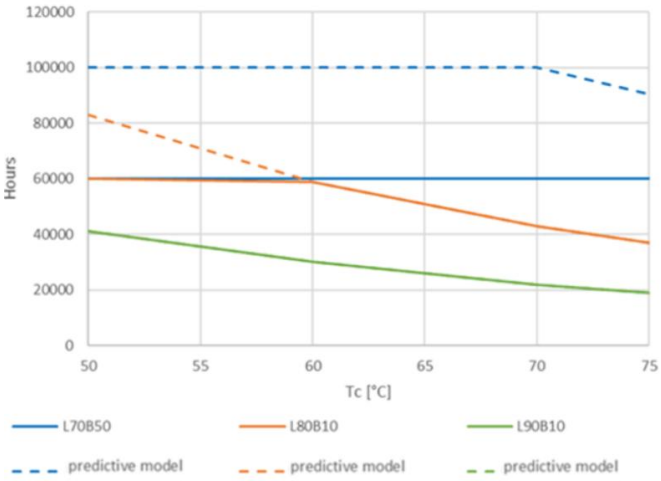


LFD400T

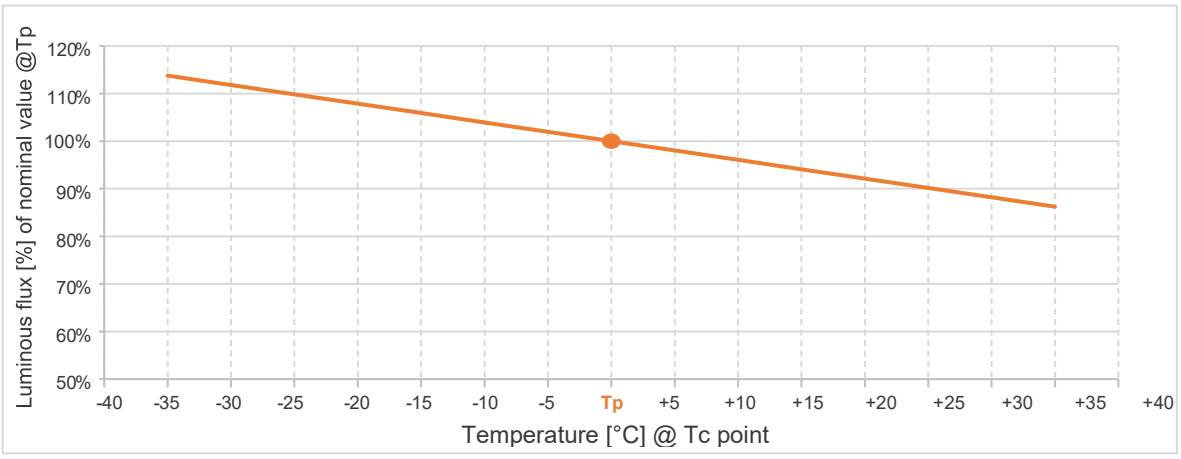


LFD800T

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

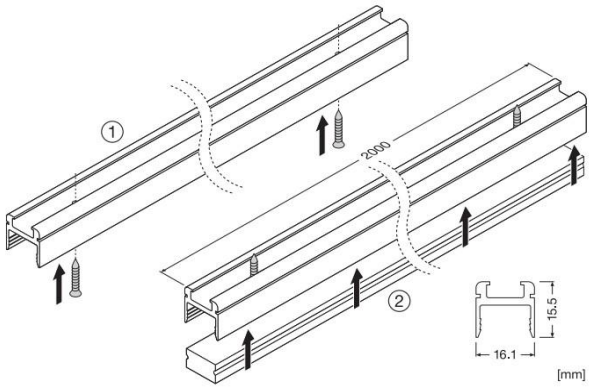
Product description	Product code	Dimensions (length x width x height)	EAN10 Package content
LFD400T-G2-824-10	6937186136565	519 x 167 x 525 mm	1x LED strip with connector
LFD400T-G2-827-10	6937186136589	519 x 167 x 525 mm	1x LED strip with connector
LFD400T-G2-830-10	6937186136602	519 x 167 x 525 mm	1x LED strip with connector
LFD400T-G2-840-10	6937186136626	519 x 167 x 525 mm	1x LED strip with connector
LFD400T-G2-924-10	6937186136640	519 x 167 x 525 mm	1x LED strip with connector
LFD400T-G2-927-10	6937186136664	519 x 167 x 525 mm	1x LED strip with connector
LFD400T-G2-930-10	6937186136688	519 x 167 x 525 mm	1x LED strip with connector
LFD400T-G2-940-10	6937186136701	519 x 167 x 525 mm	1x LED strip with connector
LFD800T-G2-824-06	6937186136886	420 x 232 x 430 mm	1x LED strip with connector
LFD800T-G2-827-06	6937186136909	420 x 232 x 430 mm	1x LED strip with connector
LFD800T-G2-830-06	6937186136923	420 x 232 x 430 mm	1x LED strip with connector
LFD800T-G2-840-06	6937186136947	420 x 232 x 430 mm	1x LED strip with connector
LFD800T-G2-924-06	6937186136961	420 x 232 x 430 mm	1x LED strip with connector
LFD800T-G2-927-06	6937186136985	420 x 232 x 430 mm	1x LED strip with connector
LFD800T-G2-930-06	6937186137005	420 x 232 x 430 mm	1x LED strip with connector
LFD800T-G2-940-06	6937186137029	420 x 232 x 430 mm	1x LED strip with connector
LFD1300T-G2-824-04	6937186137203	420 x 232 x 430 mm	1x LED strip with connector
LFD1300T-G2-827-04	6937186137227	420 x 232 x 430 mm	1x LED strip with connector
LFD1300T-G2-830-04	6937186137241	420 x 232 x 430 mm	1x LED strip with connector
LFD1300T-G2-840-04	6937186137265	420 x 232 x 430 mm	1x LED strip with connector
LFD1300T-G2-927-04	6937186137289	420 x 232 x 430 mm	1x LED strip with connector
LFD1300T-G2-930-04	6937186137302	420 x 232 x 430 mm	1x LED strip with connector
LFD1300T-G2-940-04	6937186137326	420 x 232 x 430 mm	1x LED strip with connector

Optional accessories

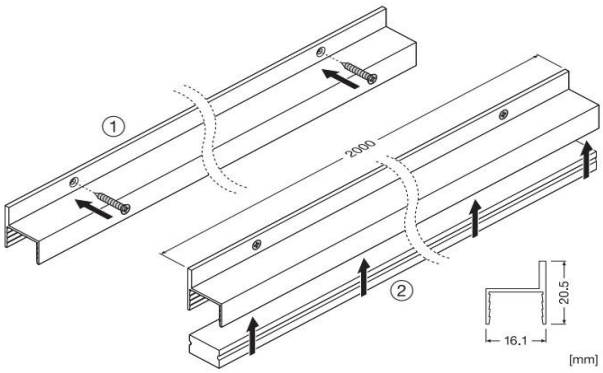
Product Type	Product description	Product code (EAN10)	EAN10 Package content
Middle power feeder	FX-DCS-G1-CM2PF-IP67-0500-X5	6937186139733	5x Feeder
Strip to strip middle jumper	FX-DCS-G1-CM2PJ-IP67-0190-X5	6937186139757	5x Jumper
Feeder kit with endcaps & glue	FX-DCS-G1-CM2PF-IP67-TOPKIT5	6937186139771	5x Feeder, 10x Endcaps, 1x Glue (5g)
Jumper kit with endcaps & glue	FX-DCS-G1-CM2PJ-IP67-TOPKIT5	6937186139795	5x Jumper, 10x Endcaps, 1x Glue (5g)
Endcaps & glue	FX-DCS-G1-ECT-KIT20	6937186139832	20x Endcaps, 2x Glue (5g)
Silicon glue 25g	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-BT-17H11	6937186126566	50x Mounting Bracket
Mounting bracket with additional wing	FX-LFDM-G1-BTL-17H11E9	6937186126580	50x Mounting Bracket
Aluminum profile Top	FX-LFDM -G1-TT-16H16-200	6937186126627	5x Profile
Aluminum profile Top Wings	FX-LFDM -G1-TTL-16H11W10-200	6937186126641	5x Profile

LFD400 / LFD800 / LFD1300 TOP with optional accessories

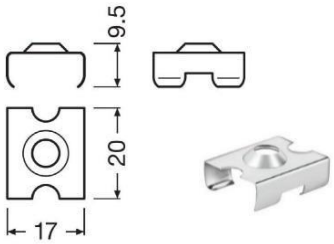
FX-LFDM-G1-TT-16H16-200



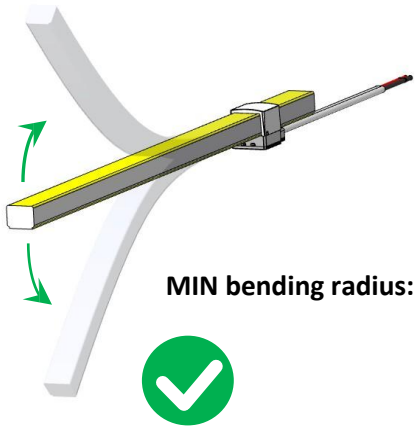
FX-LFDM -G1-TTL-16H11W10-200



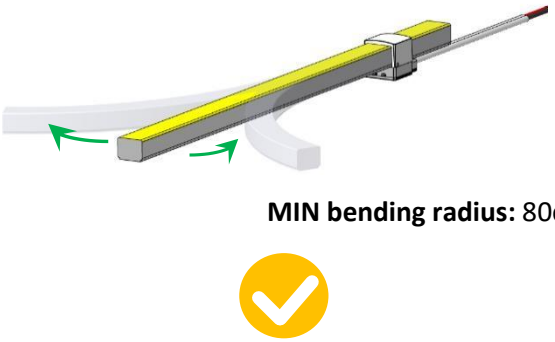
FX-QMS-G1-BMZI-DIV1



LD400 / LFD800 / LFD1300 TOP bending direction (yellow: light emitting surface)



MIN bending radius: 10cm



MIN bending radius: 80cm

Ambient temperature – operating considerations

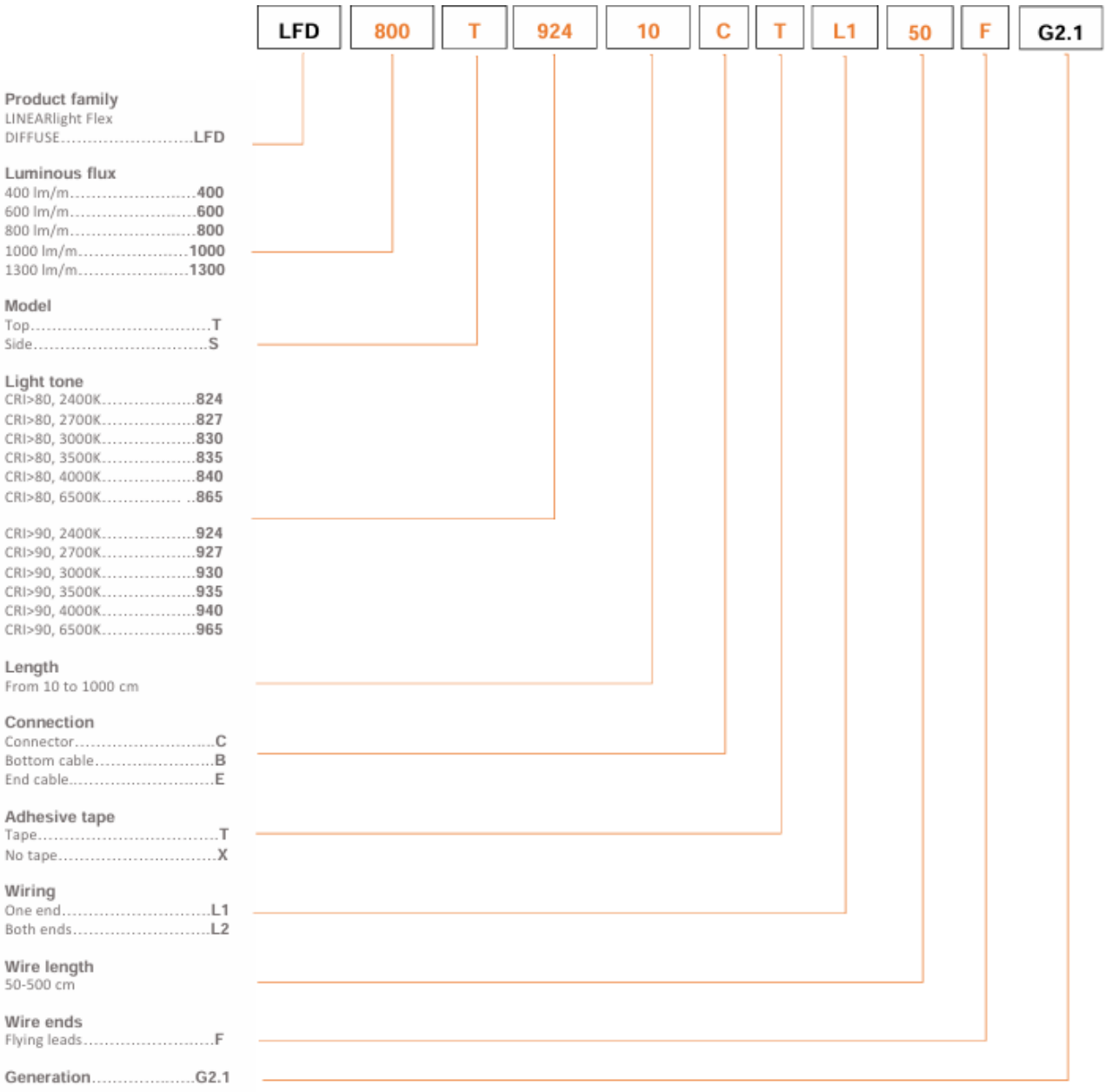
The table reports the maximum recommended ambient temperature for each listed profile in combination with LF Diffuse Side in case of recessed mounting. In this condition the expected Tc of LED strip is the maximum allowed.

Profile Type	Product description	Product code (EAN)	MAX Ambient Temperature °C		
			LFD400T	LFD800T	LFD1300T
	FX-LFDM -G1-TT-16H16-200	6937186126627	55	50	45
	FX-LFDM -G1-TTL-16H11W10-200	6937186126641	55	50	45
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.

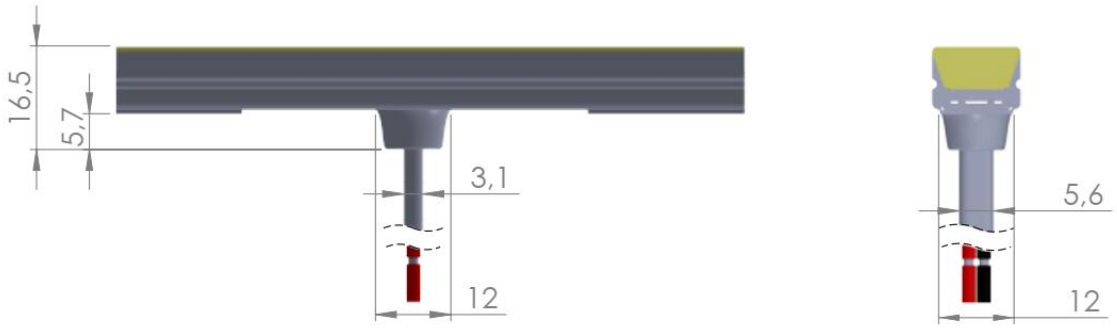
Speaking code generator

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

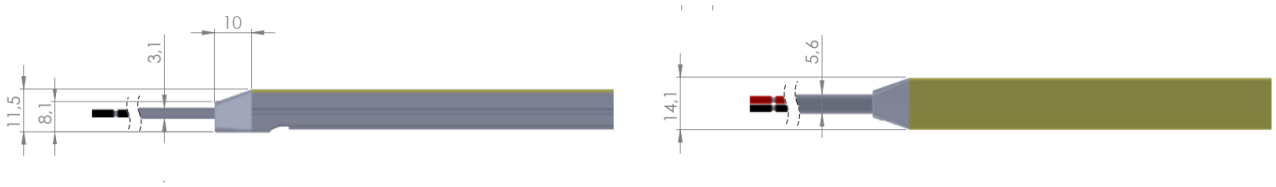


Note: LINEARlight FLEX DIFFUSE can be ordered both with standard and customized lengths.

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