

Light is OSRAM

OSRAM

LINEARlight FLEX Colormix RGBW

RGB + White IP00 LED strips for vivid colors and perfect white
LF700/1300 RGBW



Features & Benefits

- Luminous flux up to 1290 lm/m
- Lifetime up to 60.000 h L70B50 at T_p
- Perceived color uniformity $\leq 2\text{SDCM}^*$
- Internal constant current regulator
- LM80 & LM79 compliant
- Full single bin on each color and white
- Vivid saturated colors and powerful pastel colors
- Enhanced special white: add a few drops of colors to white for a gentle change of CCT and ad-hoc color rendering
- Extraordinary design and high quality materials
- Great design freedom thanks to flexibility and cuttability of the strip
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back
- Quick and safe installation thanks to factory-assembled wires on both ends
- Dimmable by PWM technology & DALI
- Reel-to-Reel
- Made in Italy

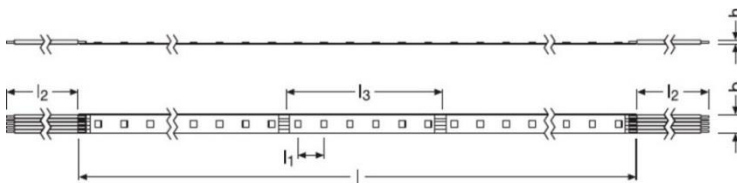
Application areas

Effect lighting in architecture, Dynamic effects in public zones

Standards

CE, ENEC 10 VDE, EAC, UL Recognized component according to UL 8750

Dimension & Available lengths



	l	l ₁	l ₂	l ₃	h	b
	mm	mm	mm	mm	mm	mm
LF700RGBW	6000	25	500	150	1.7	10
LF1300RGBW	3900	16.7	500	100	1.7	10

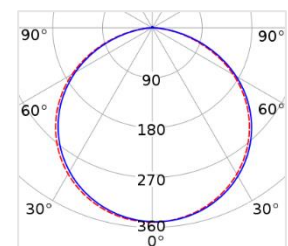
Lowest Bending Radius = 20 mm

Number LED/m = LF700RGBW 80 (40 RGB + 40 White)

LF1300RGBW 120 (60 RGB + 60 White)

Electrical & Output data

Nominal Voltage	24.0 V
Reverse voltage protection up to	25 V
Temperature range in operation @ T _c point	-20...+85 °C
Storage Temperature	-40...+85 °C
Ambient Temperature	-20...+50 °C



Beam Angle 120°

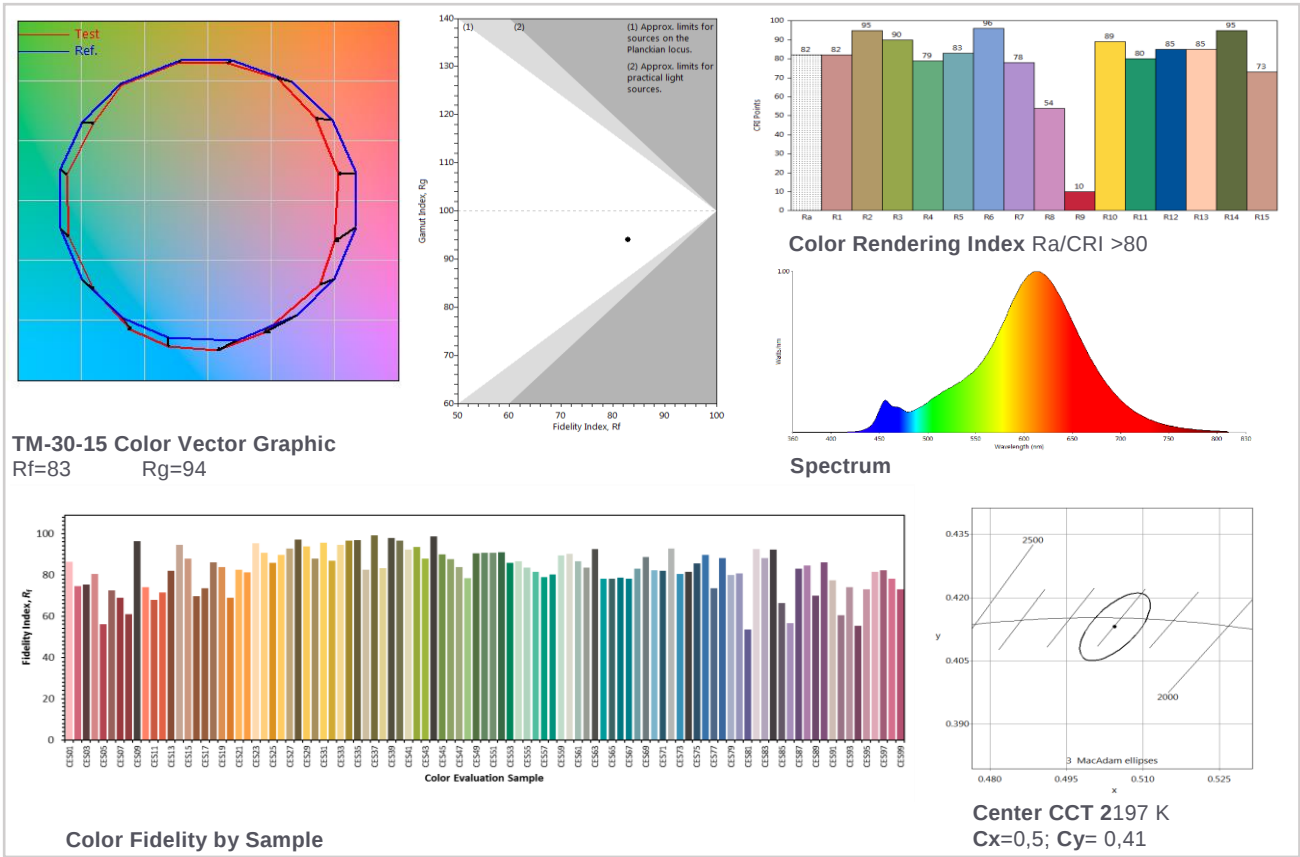
LF700RGBW		Color Temp. (White)	CRI	Luminous Flux per meter lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LF700RGBW-G1-822-06		2200 K	>80	657	10.7	85.7	35	6
LF700RGBW-G1-827-06		2700 K	>80	697	9.8	121.2	35	6
LF700RGBW-G1-830-06		3000 K	>80	697	9.8	121.2	35	6
LF700RGBW-G1-840-06		4000 K	>80	697	9.6	129	35	6
LF700RGBW-G1-865-06		6500 K	>80	697	9.6	129	35	6

LF1300RGBW		Color Temp. (White)	CRI	Luminous Flux per meter lm/m	Power W/m	Luminous Efficacy lm/W	Performance Temp. Tp °C	Length m
LF1300RGBW-G1-822-04		2200 K	>80	1213	19.4	75.7	45	4
LF1300RGBW-G1-827-04		2700 K	>80	1293	17.9	115.9	45	4
LF1300RGBW-G1-830-04		3000 K	>80	1293	17.9	115.9	45	4
LF1300RGBW-G1-840-04		4000 K	>80	1293	17.4	125	45	4
LF1300RGBW-G1-865-04		6500 K	>80	1293	17.4	125	45	4

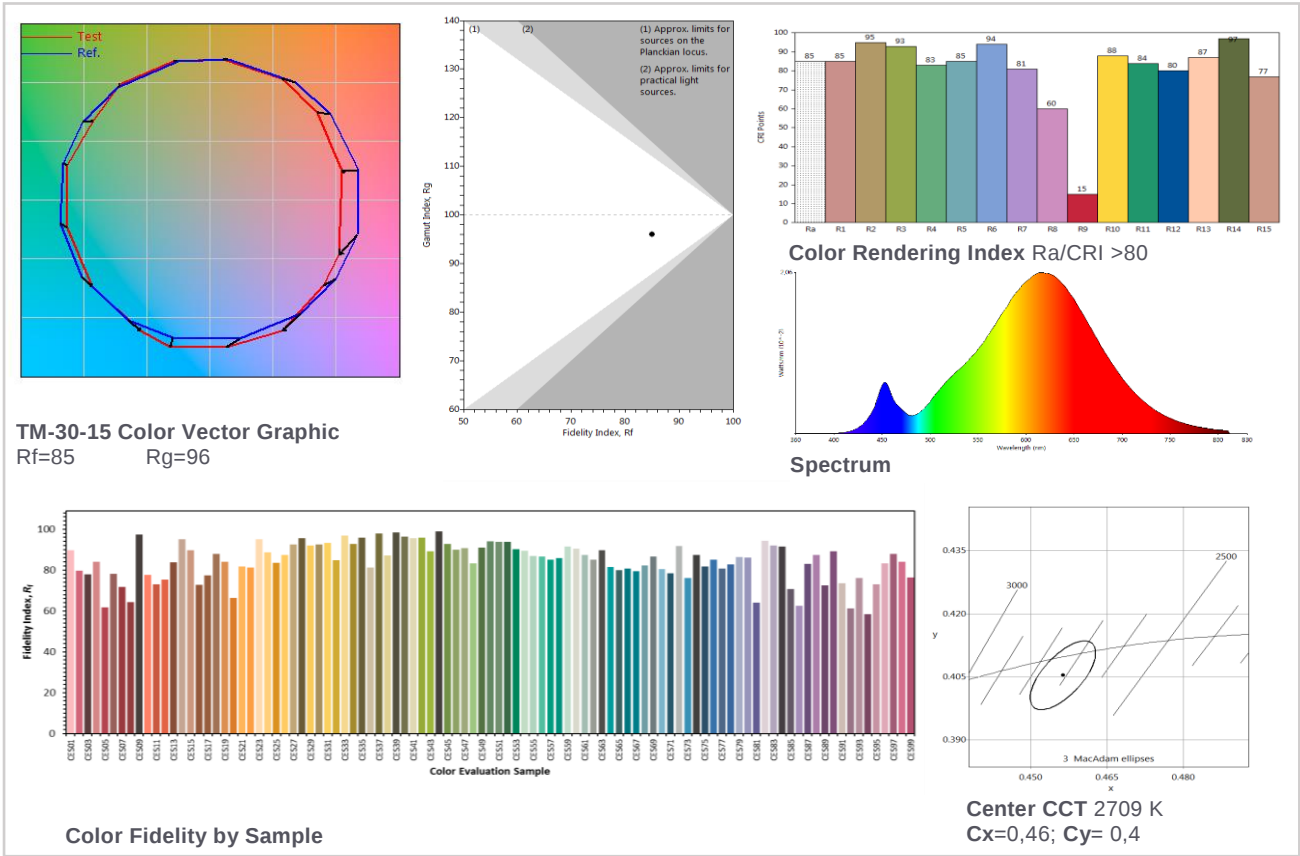
Color	Dom. λ (nm)		Flux lm/m		Power W/m		Current A/m	
			LF700RGBW	LF1300RGBW	LF700RGBW	L1300RGBW	LF700RGBW	LF1300RGBW
	R	622	80	132	2.8	4.7	0.12	0.2
	G	534	196	328	2.6	4.6	0.11	0.19
	B	468	21	33	1,1	1.7	0.05	0.07
	White	-	400	800	3.3	6.9	0.14	0.29

Color output data

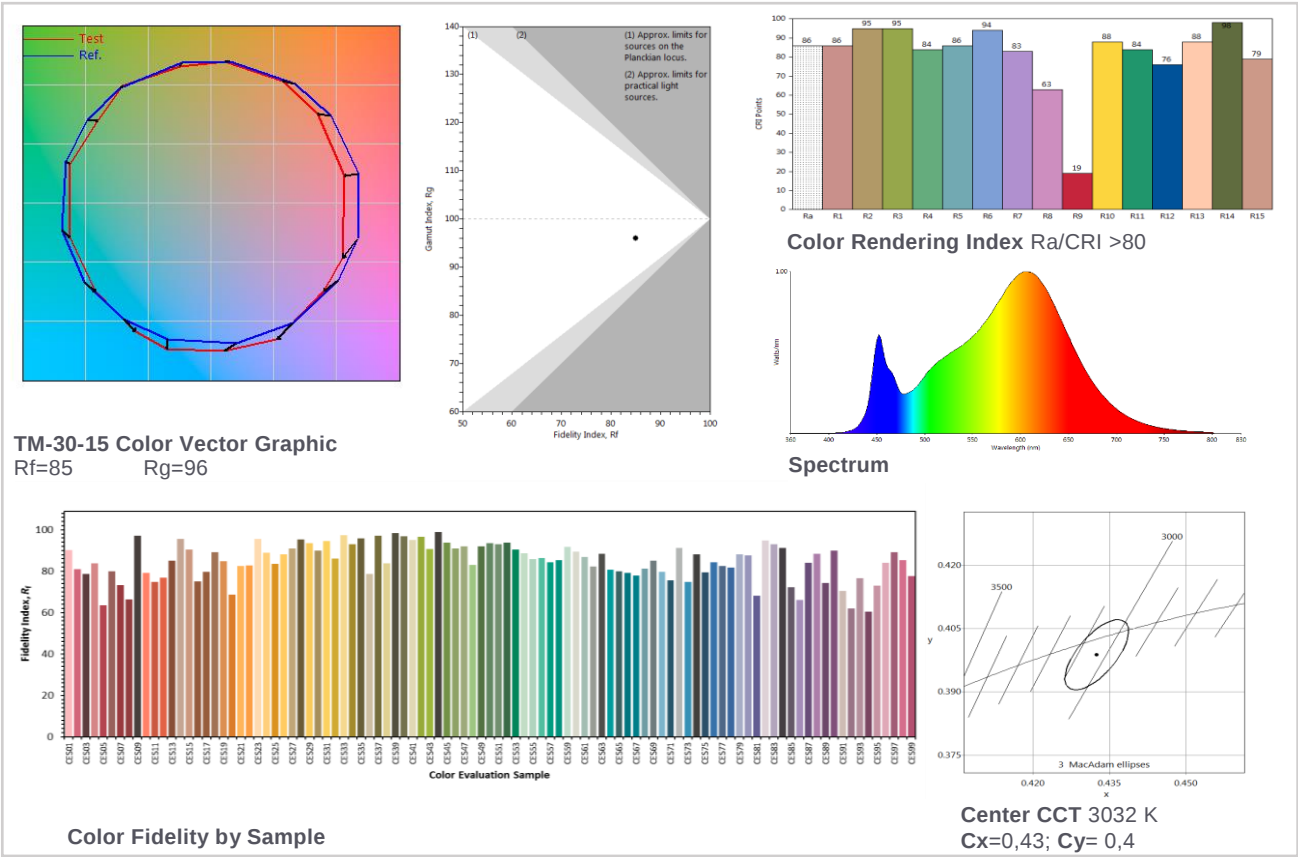
LF700RGBW-G1-822



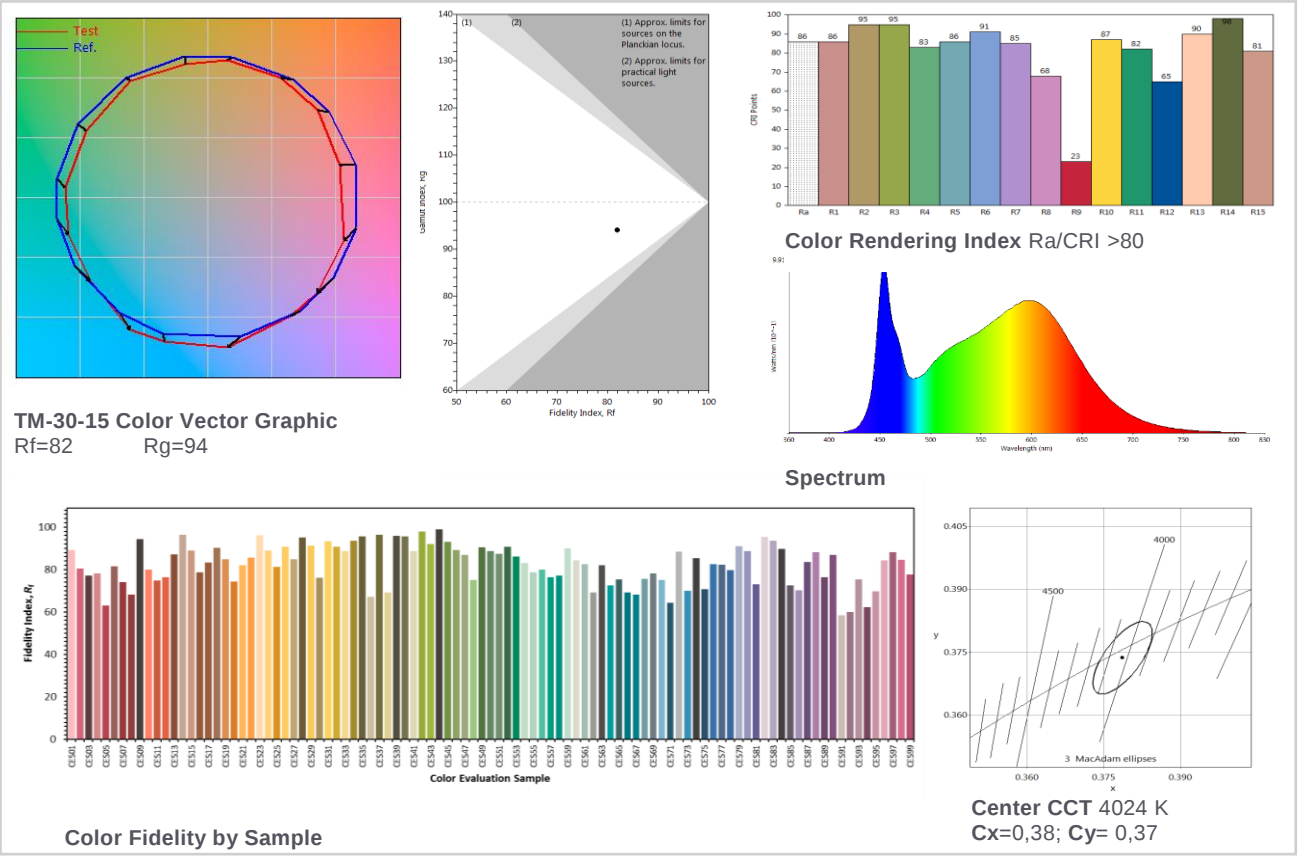
LF700RGBW-G1-827



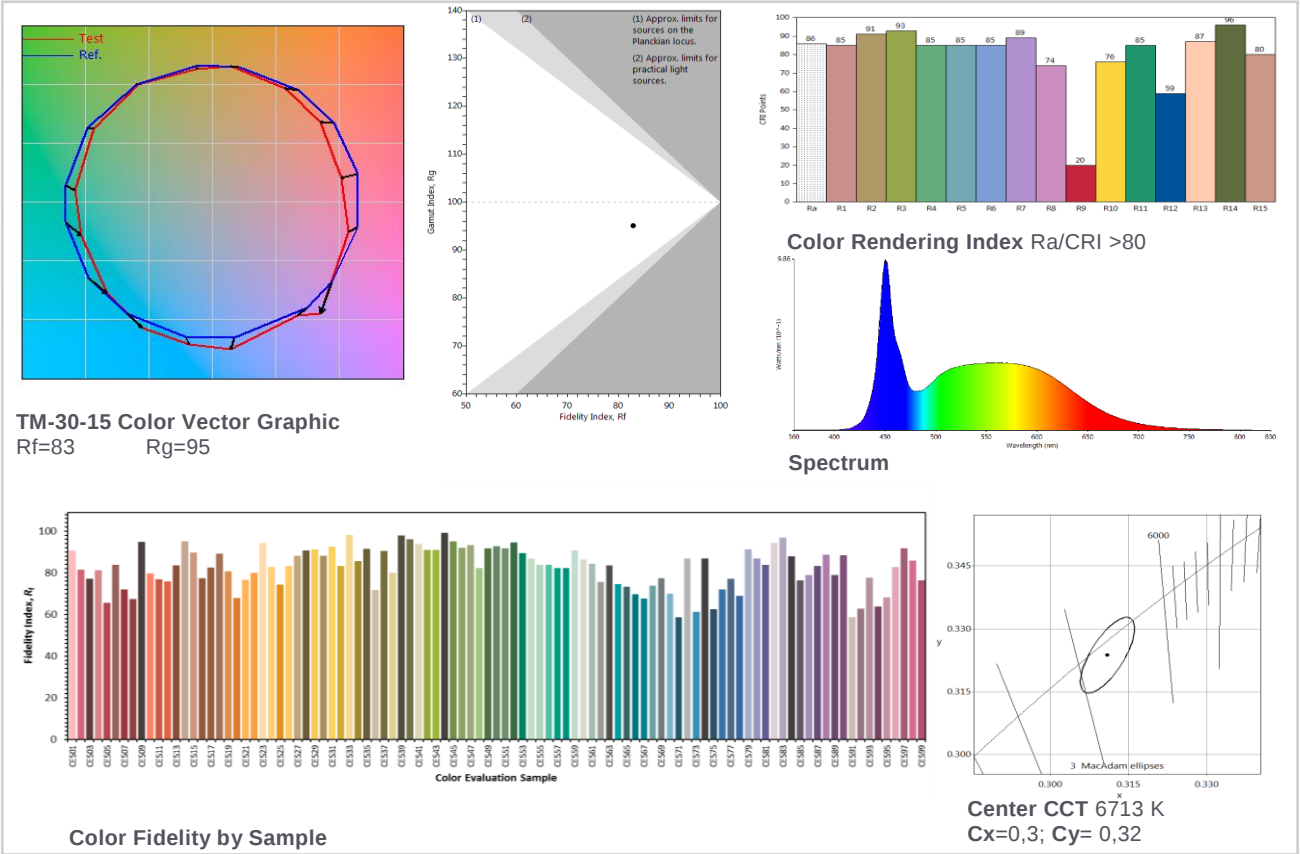
LF700RGBW-G1-830



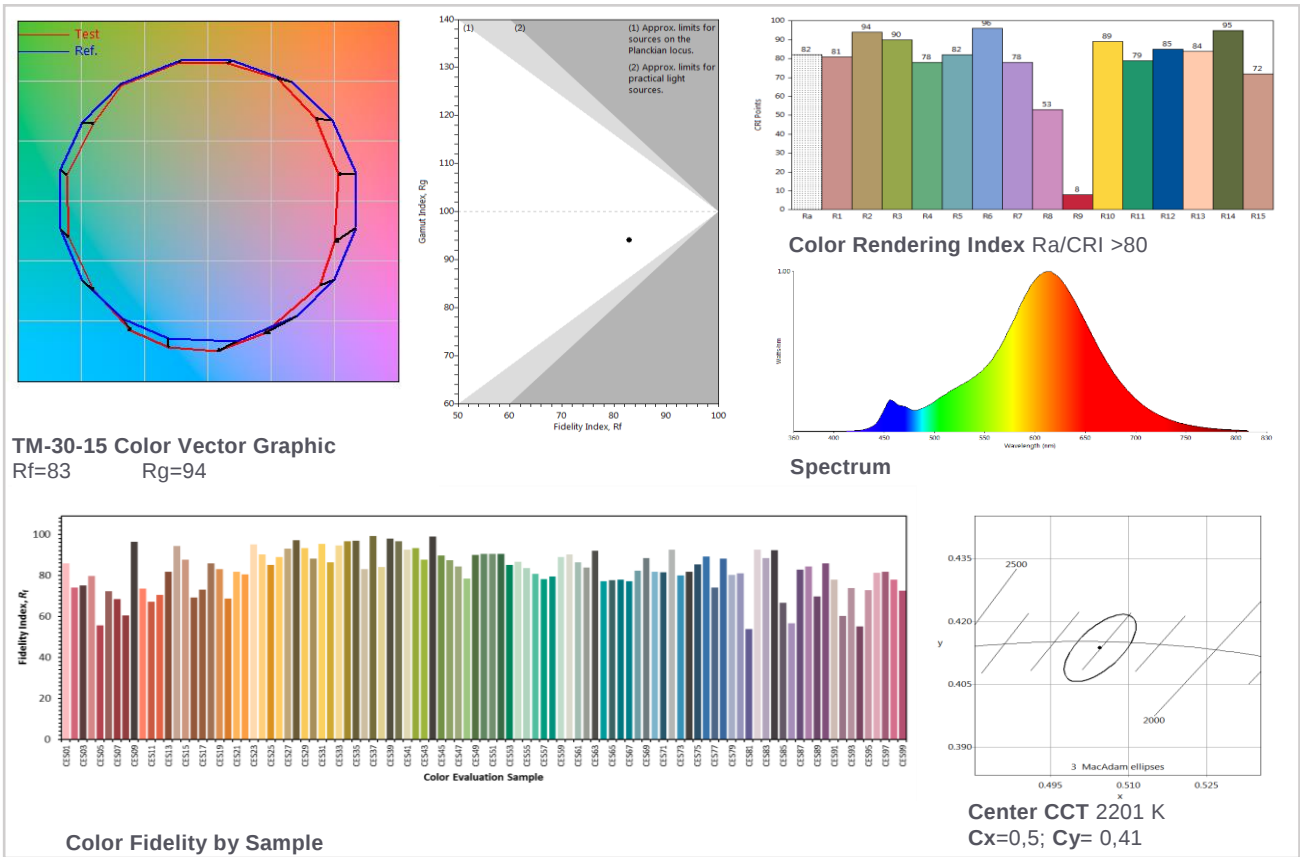
LF700RGBW-G1-840



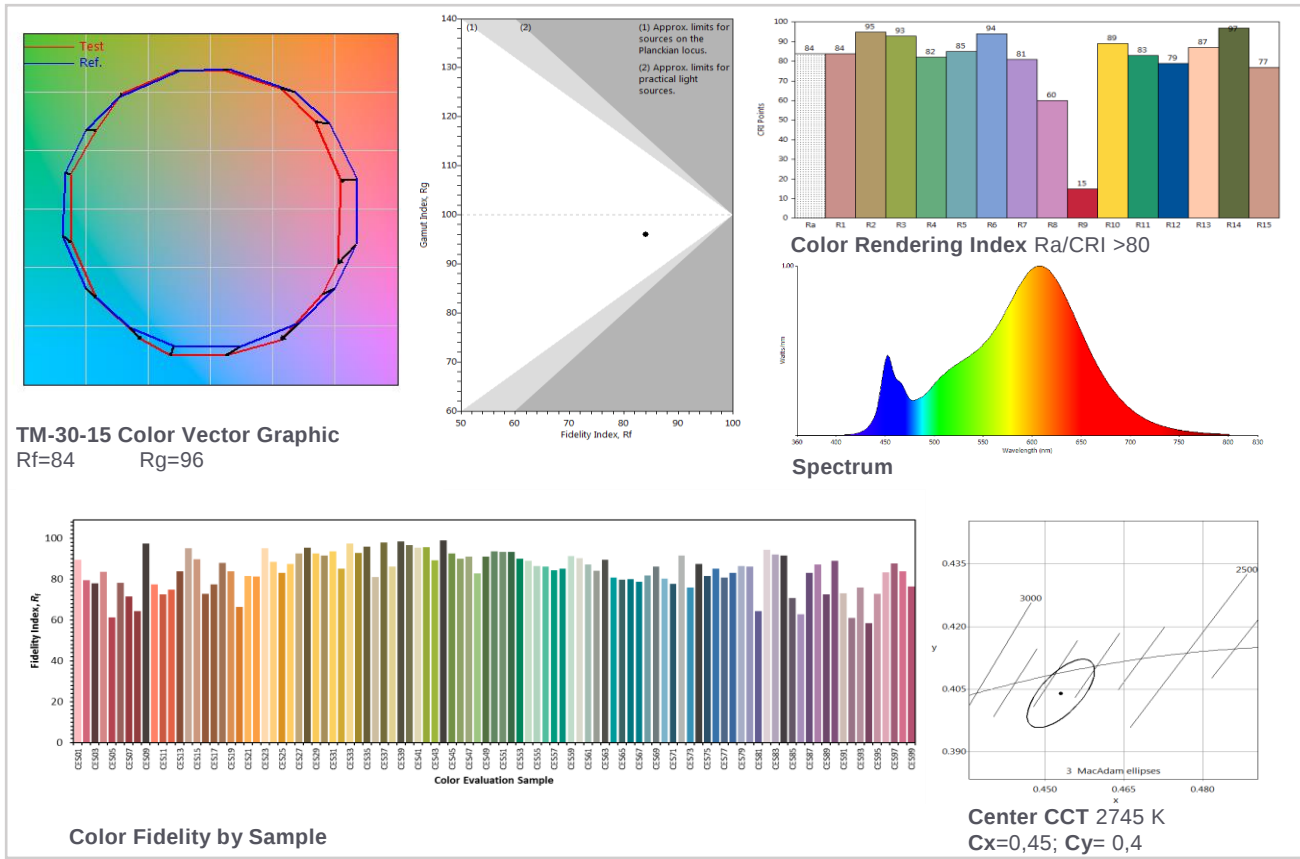
LF700RGBW-G1-865



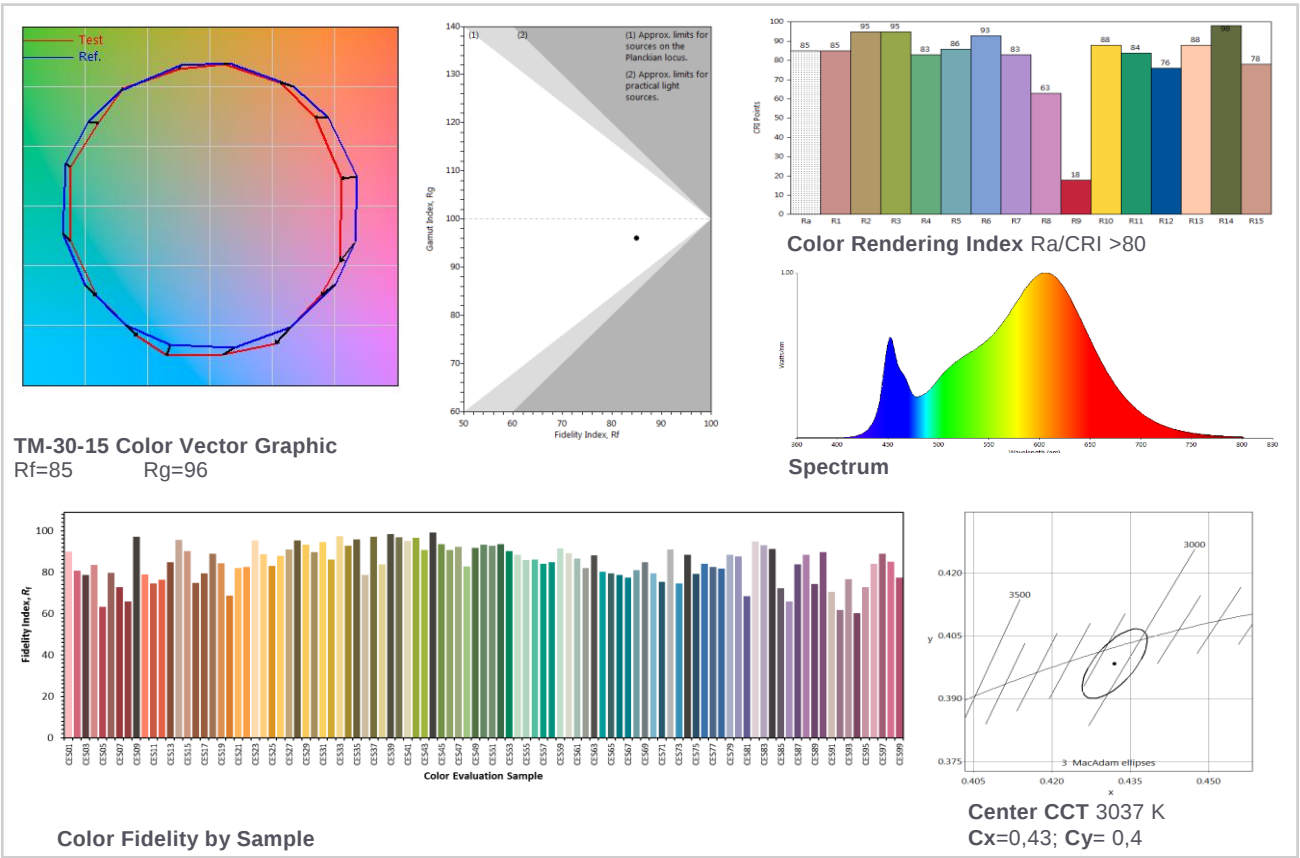
LF1300RGBW-G1-822



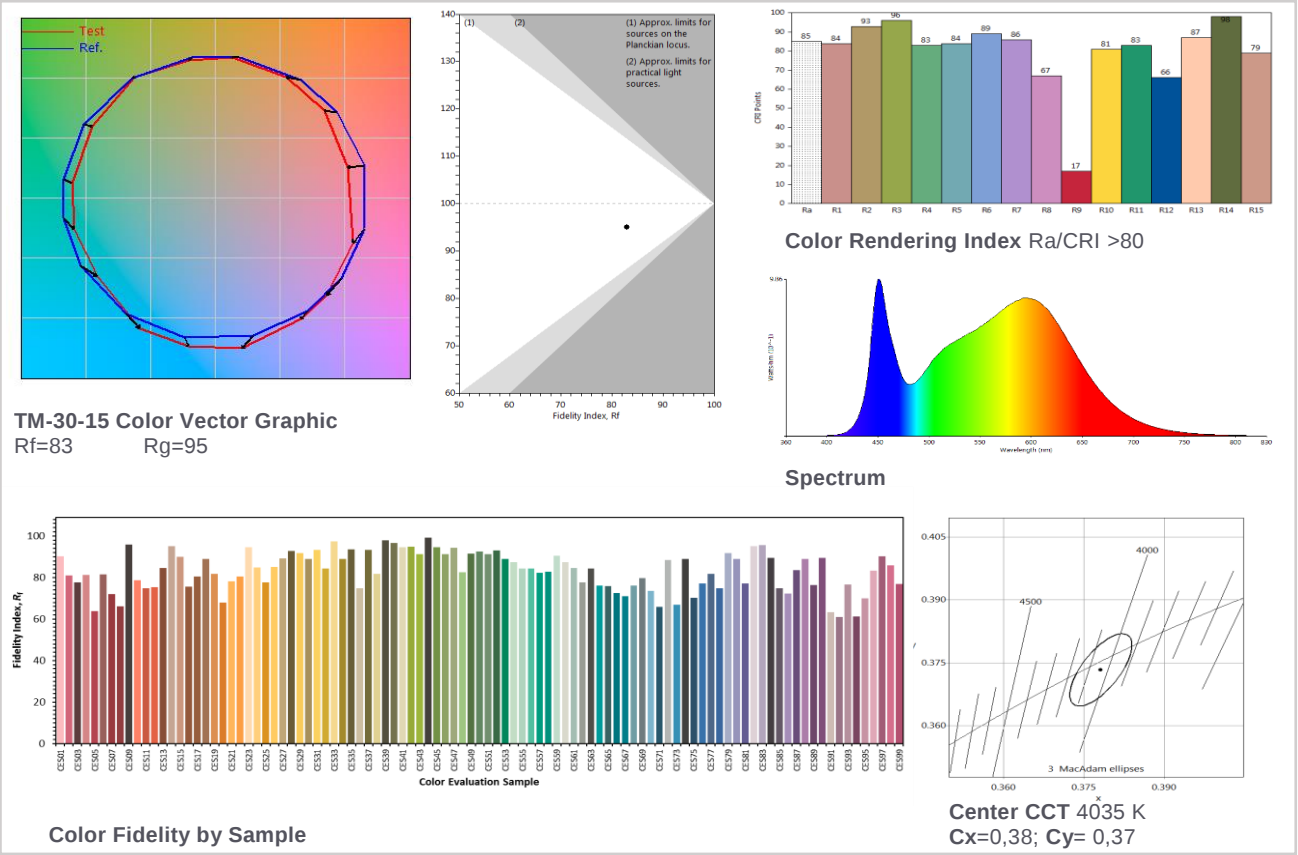
LF1300RGBW-G1-827



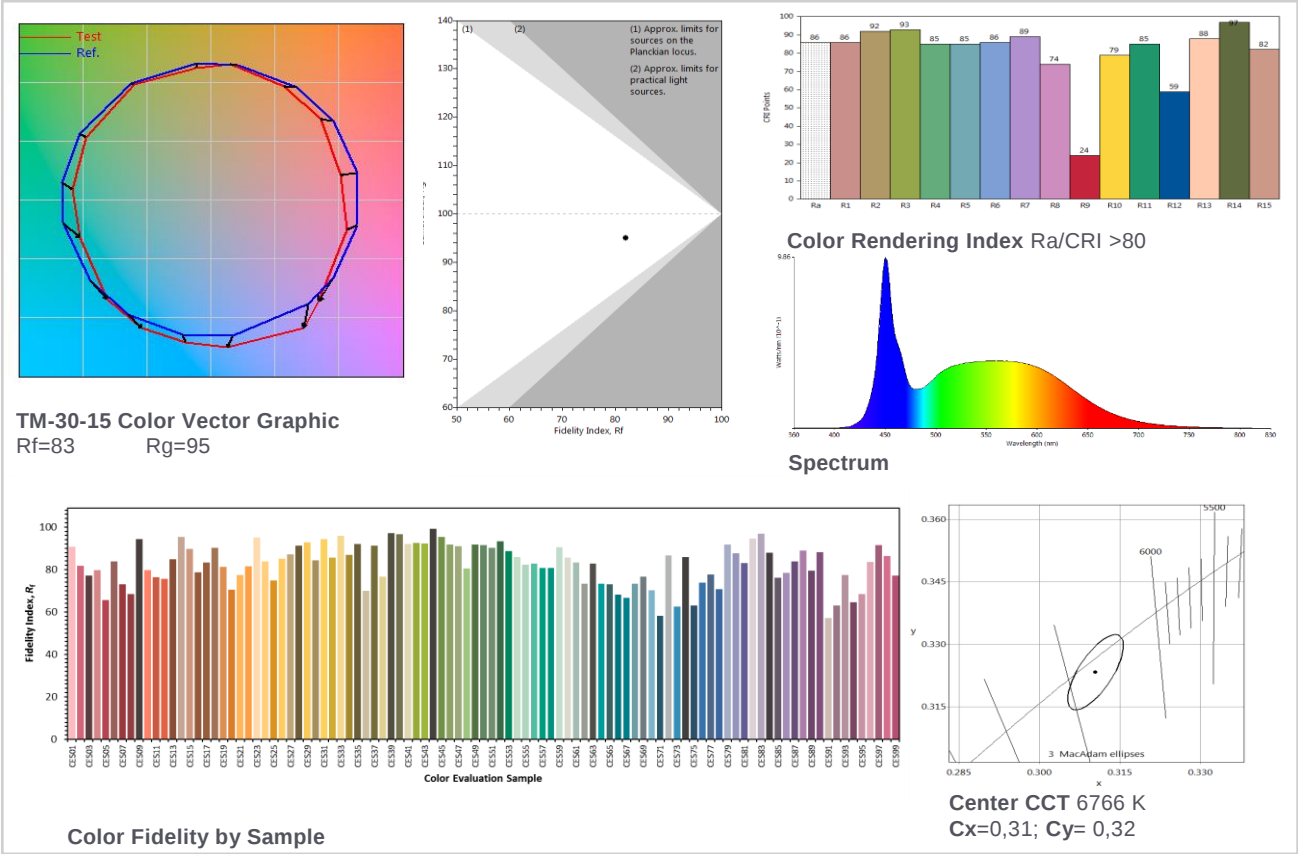
LF1300RGBW-G1-830



LF1300RGBW-G1-840

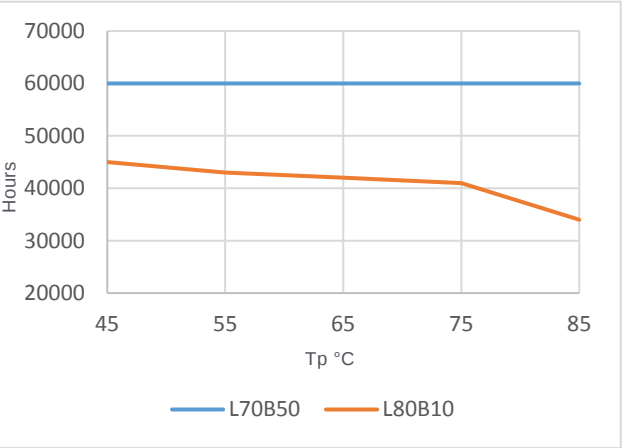


LF1300RGBW-G1-865

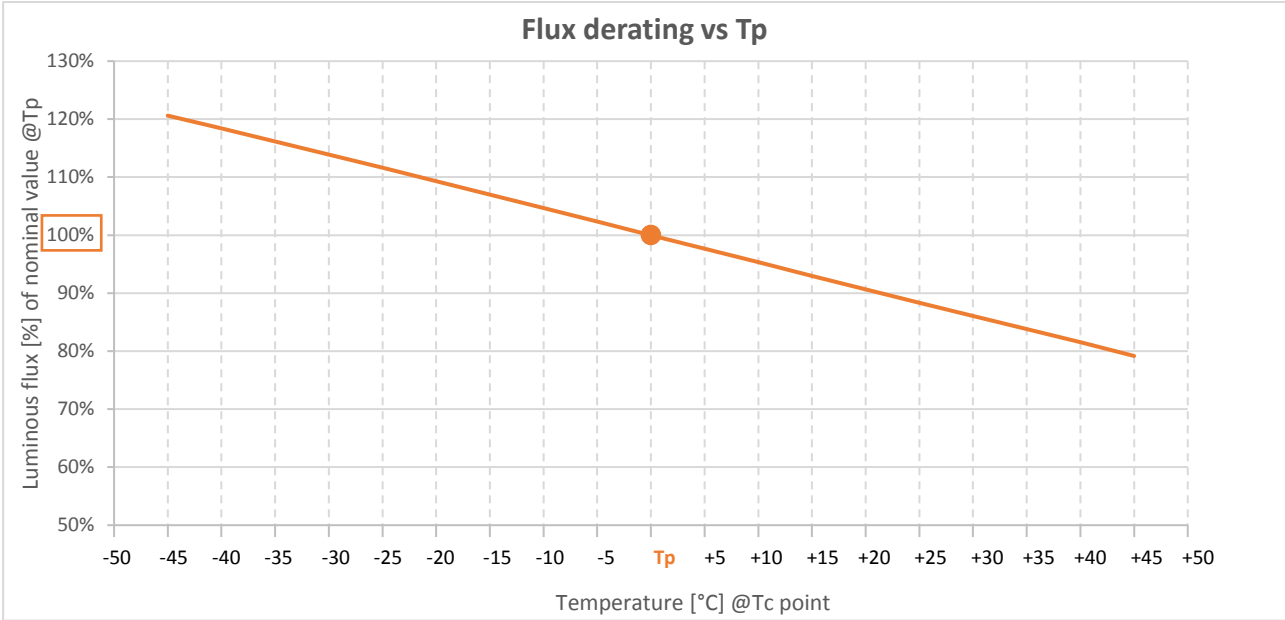


Lifetime

LF700/1300RGBW



Luminous Flux maintenance according to Tp value



Note: Values applicable only for White CCTs.
 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
LF700RGBW-G1-822-06	4052899525221	6000 x 10 x 1.7 mm	1x LED strip with pre-soldered wires
LF700RGBW-G1-827-06	4052899525269	6000 x 10 x 1.7 mm	1x LED strip with pre-soldered wires
LF700RGBW-G1-830-06	4052899525306	6000 x 10 x 1.7 mm	1x LED strip with pre-soldered wires
LF700RGBW-G1-840-06	4052899540668	6000 x 10 x 1.7 mm	1x LED strip with pre-soldered wires
LF700RGBW-G1-865-06	4052899525344	6000 x 10 x 1.7 mm	1x LED strip with pre-soldered wires
LF1300RGBW-G1-822-04	4052899525061	4000 x 10 x 1.7 mm	1x LED strip with pre-soldered wires
LF1300RGBW-G1-827-04	4052899525122	4000 x 10 x 1.7 mm	1x LED strip with pre-soldered wires
LF1300RGBW-G1-830-04	4052899525146	4000 x 10 x 1.7 mm	1x LED strip with pre-soldered wires
LF1300RGBW-G1-840-04	4052899540620	4000 x 10 x 1.7 mm	1x LED strip with pre-soldered wires
LF1300RGBW-G1-865-04	4052899525184	4000 x 10 x 1.7 mm	1x LED strip with pre-soldered wires

Tracks System compatibility

The table reports the maximum recommended ambient temperature for each listed track in combination with LF700/1300RGBW, in case of surface or recessed mounting. In these conditions the expected Tc of LED strip is the maximum allowed.

				 SURFACE MOUNTING	 RECESSED MOUNTING		
				LF700RGBW	LF1300RGBW	LF700RGBW	LF1300RGBW
Track Type	Product description		Product code (EAN)	T Amb. °C	T Amb. °C	T Amb. °C	T Amb. °C
 Slim Track	LF-LTS-2100	4008321978981	50	45	50	40	
 Slim Track	FX-QMS-G1-TU15H6-300	4052899448865	50	40	50	35	
 Slim Track	FX-QMS-G1-TU15H6W3-300	4052899448889	50	40	50	35	
 Slim Track	FX-QMS-G1-TU16H12-300	4052899448964	50	45	50	40	
 Slim Track	FX-QMS-G1-TU16H12W3-300	4052899448988	50	45	50	40	
 Slim Track	FX-QMS-G1-TR19H16-300	4052899449008	50	45	50	40	
 Slim Track	FX-QMS-G1-TU16H12LS-300	4052899449046	50	45	50	40	
 Slim Track	FX-QMS-G1-T45D19H19-300	4052899448667	50	45	50	42	
 Wide Track	FX-QMW-G1-TK30D46H27-300	4052899448827	50	50	50	50	
 Wide Track	FX-QMW-G1-TU26H8-300	4052899448643	50	50	50	45	
 Wide Track	FX-QMW-G1-TU26H25W10-300	4052899448773	50	50	50	50	
 Wide Track	FX-QMW-G1-TU26H25W2-300	4052899448841	50	50	50	50	
Wide Track	FX-QMW-G1-TU26H25-300	4052899448803	50	50	50	50	

Note: the table is for application evaluation only; always ensure that Tc do 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. Always make sure to use the most recent release.

*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 85%.

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.

Specifically for LF700RGBW products the color uniformity is ≤ 3 SDCM.

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