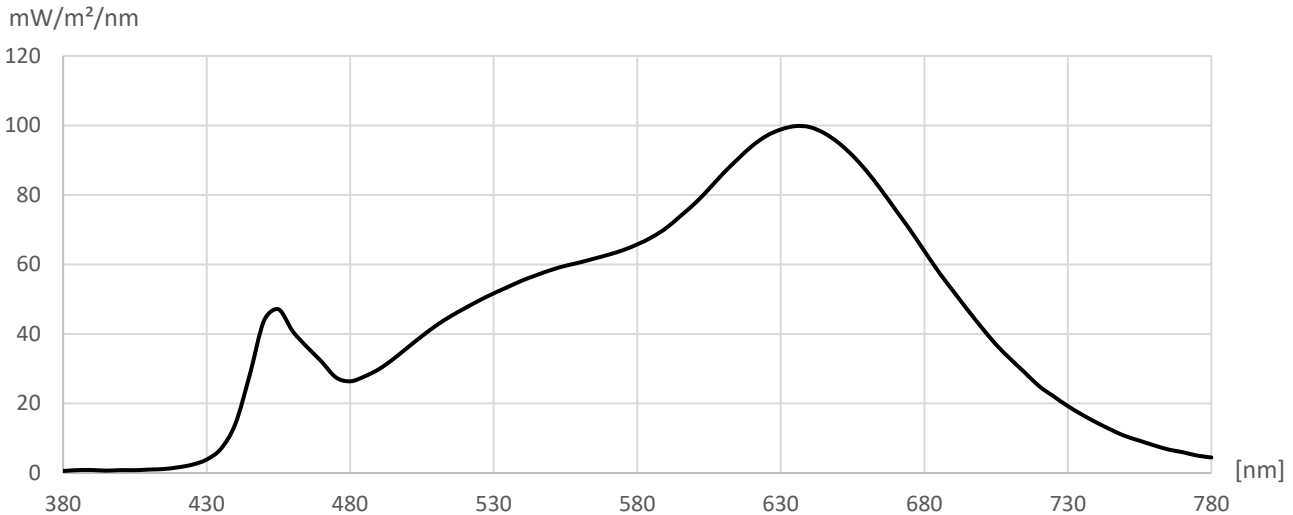


Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.
 Type: UltraBright™ Render Series LED Strip Light
 Model: UB-RS-30K97C

Measurement file: UB-RS-30K97C.CSV
 Date of measurement: 03.07.2023
 Time of measurement: 13:08:52



R1 = 96.6	Ra = 97.4	Illuminance	4,527.66 lx	CIE1931
R2 = 97.7	Re = 96.5	Ee	17.384 W/m ²	x = 0.4346
R3 = 98.2	GAI = 61.8	LER	260.4 lm/W	y = 0.3978
R4 = 97.9				
R5 = 97.1	TLCI = 99.0	Correlated Color Temperature (CCT)	2,975 K	CIE1976
R6 = 95.4		Duv	-0.0022	u' = 0.2518
R7 = 98.0	PPFD			v' = 0.5185
R8 = 98.8	[μmol/m ² s]	Saturation	49.70 %	
R9 = 98.4	78.69			CIE1960
R10 = 97.0		Dominant wavelength	583 nm	u = 0.2518
R11 = 95.3		Peak wavelength	636 nm	v = 0.3457
R12 = 85.4				
R13 = 96.4		Flicker frequency	% < 1.0	TM30
R14 = 97.9		Percent Flicker	< 1.0	Rf = 93.7
R15 = 97.1		Flicker index	% < 1.0	Rg = 101.4

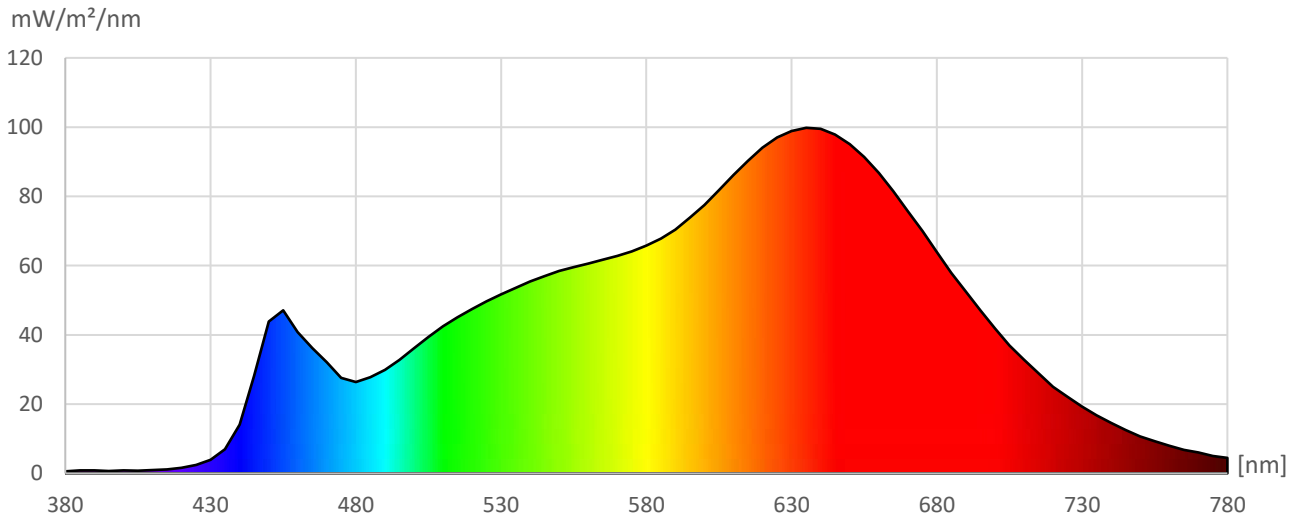
[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm
380	0.59	440	14.13	500	36.10	560	60.59	620	94.09	680	63.92	740	14.53
385	0.83	445	28.18	505	39.38	565	61.69	625	97.00	685	57.90	745	12.48
390	0.86	450	43.86	510	42.46	570	62.82	630	98.83	690	52.42	750	10.64
395	0.69	455	47.12	515	45.10	575	64.11	635	99.80	695	47.05	755	9.30
400	0.83	460	40.76	520	47.44	580	65.78	640	99.55	700	41.86	760	7.97
405	0.81	465	36.22	525	49.66	585	67.80	645	97.86	705	36.97	765	6.77
410	0.99	470	32.10	530	51.69	590	70.43	650	95.09	710	32.81	770	6.00
415	1.14	475	27.54	535	53.54	595	73.91	655	91.35	715	28.92	775	5.03
420	1.63	480	26.39	540	55.41	600	77.52	660	86.78	720	25.00	780	4.48
425	2.40	485	27.79	545	56.97	605	81.73	665	81.45	725	22.09		
430	3.88	490	29.87	550	58.43	610	86.24	670	75.74	730	19.26		
435	7.00	495	32.77	555	59.62	615	90.29	675	70.02	735	16.77		

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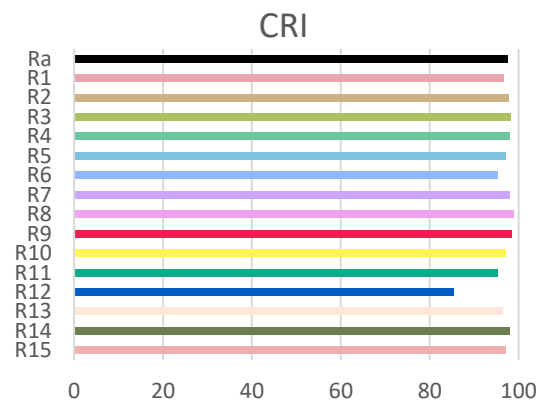
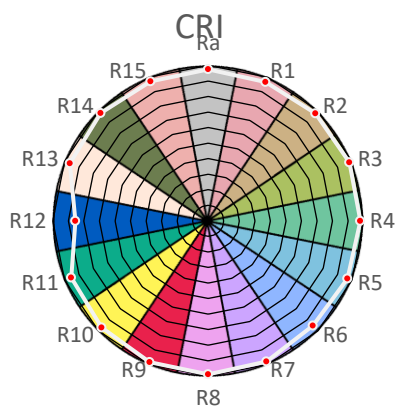
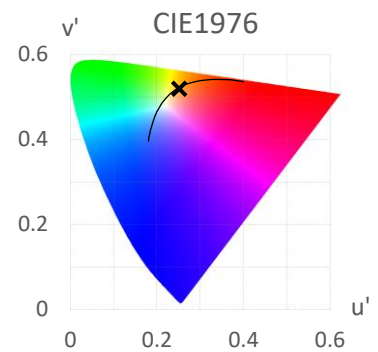
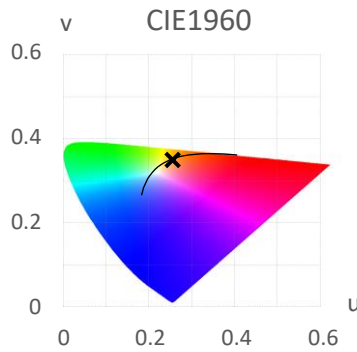
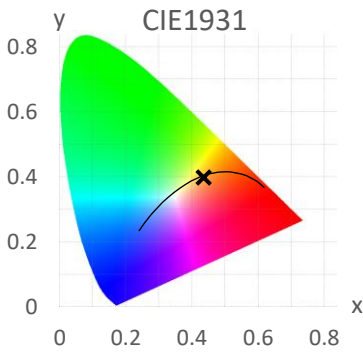
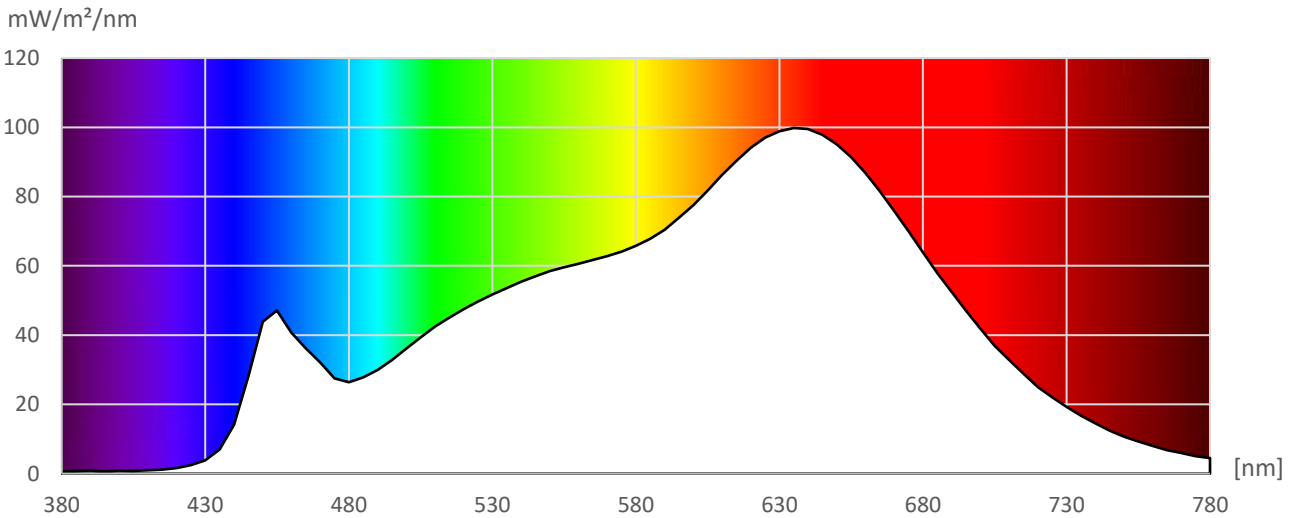
[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm
380	0.59	535	53.54	690	52.42								
385	0.83	540	55.41	695	47.05								
390	0.86	545	56.97	700	41.86								
395	0.69	550	58.43	705	36.97								
400	0.83	555	59.62	710	32.81								
405	0.81	560	60.59	715	28.92								
410	0.99	565	61.69	720	25.00								
415	1.14	570	62.82	725	22.09								
420	1.63	575	64.11	730	19.26								
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440	14.13	595	73.91	750	10.64								
445	28.18	600	77.52	755	9.30								
450	43.86	605	81.73	760	7.97								
455	47.12	610	86.24	765	6.77								
460	40.76	615	90.29	770	6.00								
465	36.22	620	94.09	775	5.03								
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475	27.54	630	98.83										
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495	32.77	650	95.09										
500	36.10	655	91.35										
505	39.38	660	86.78										
510	42.46	665	81.45										
515	45.10	670	75.74										
520	47.44	675	70.02										
525	49.66	680	63.92										
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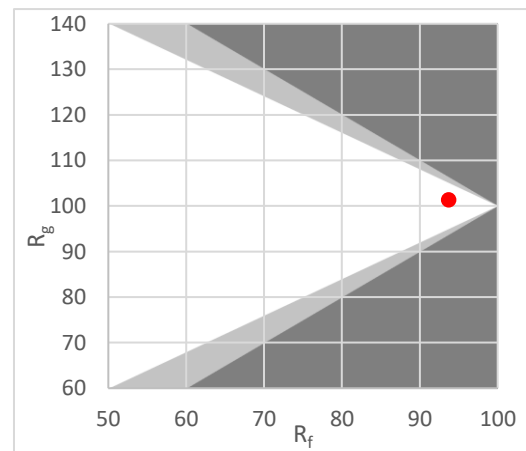
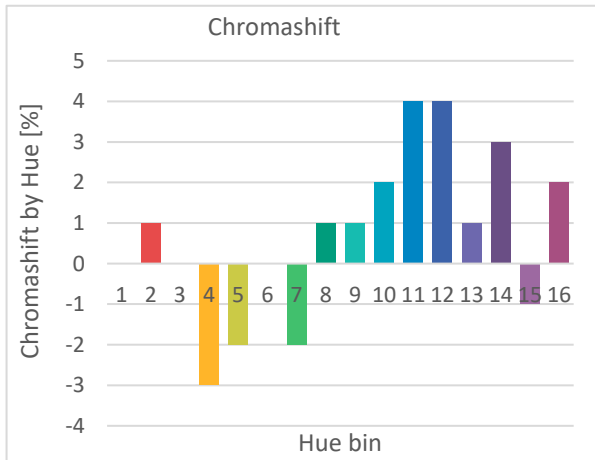
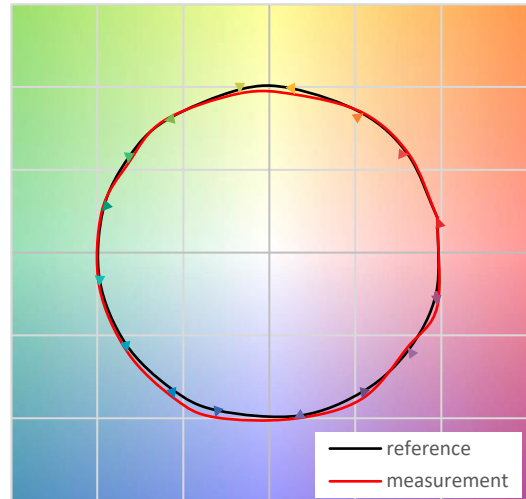
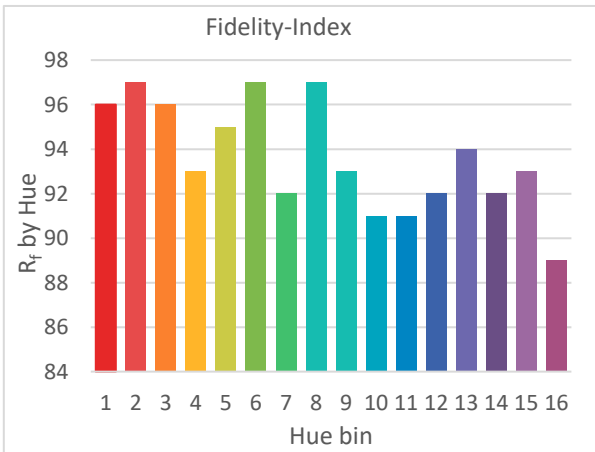
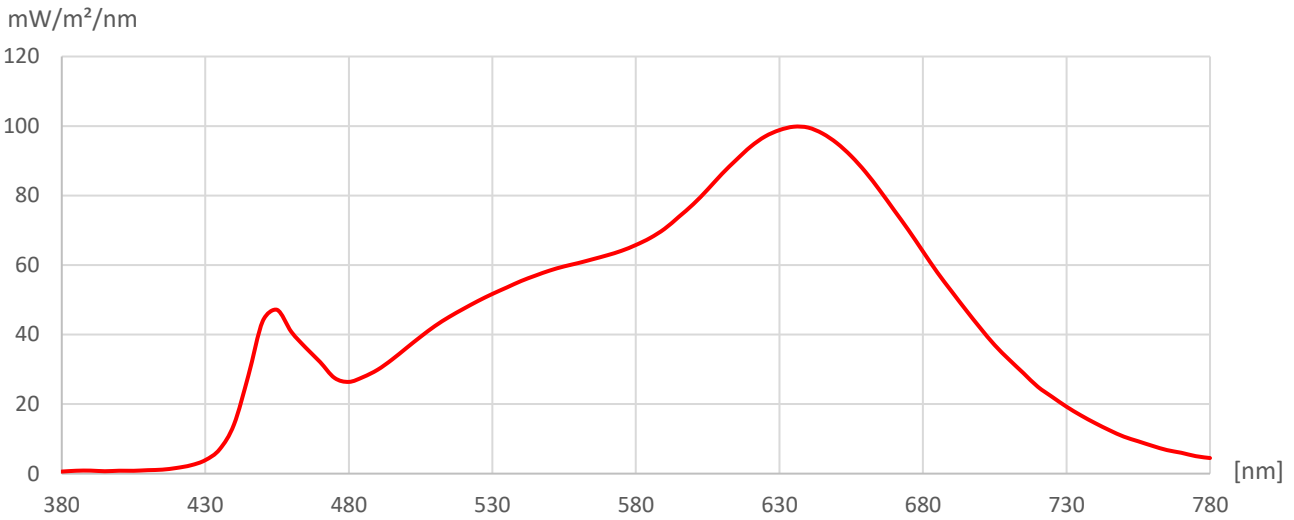


Measurement Protocol



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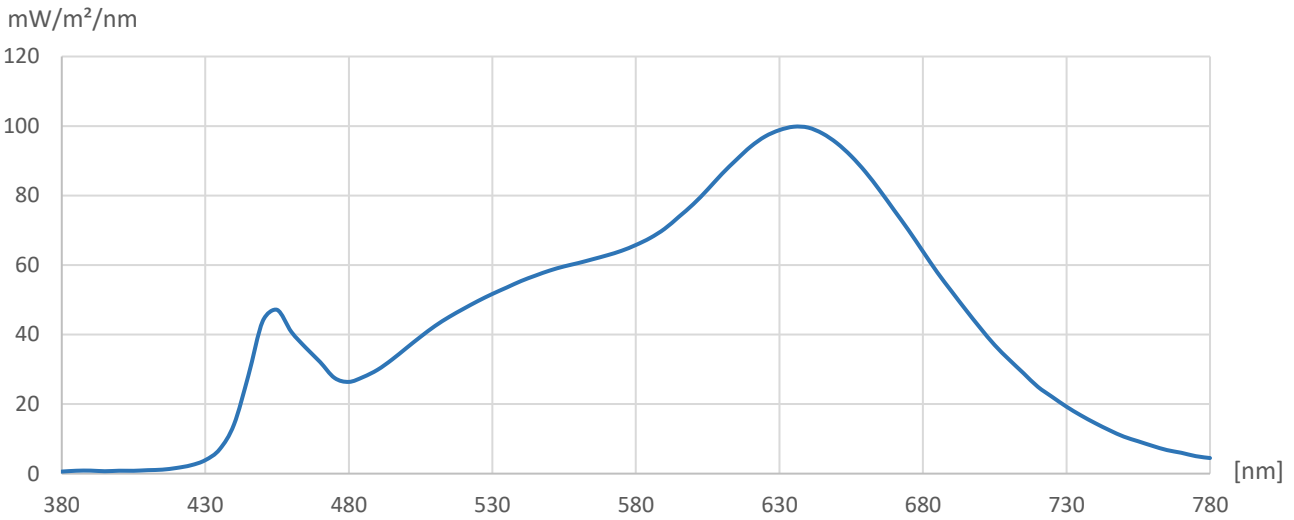


Measurement Protocol



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 Model: UB-RS-30K97C

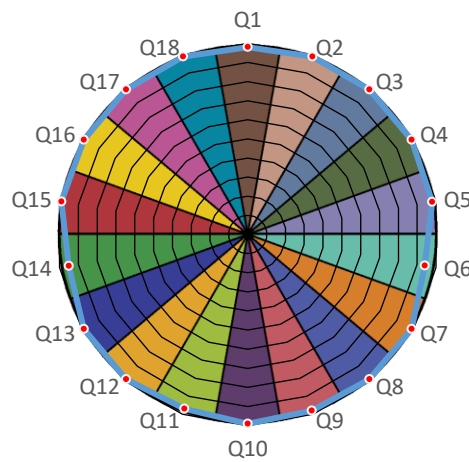
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correlated color temperature (CCT) 2,975 K
 TLCI 99

Reference Spectrum Plank

	Lightness	Chroma	Hue
R	0	0	0
R/Y	0	0	-1
Y	0	0	-1
Y/G	0	0	0
G	0	0	0
G/C	0	0	0
C	0	0	0
C/B	0	0	0
B	0	-1	0
B/M	0	0	1
M	0	0	0
M/R	0	0	0



Test Colour	Value	Test Colour	Value	Test Colour	Value
Q1 Dark skin	98	Q7 Orange	99	Q13 Blue	99
Q2 Light skin	99	Q8 Purplish blue	99	Q14 Green	95
Q3 Blue sky	99	Q9 Moderate red	98	Q15 Red	99
Q4 Foliage	99	Q10 Purple	99	Q16 Yellow	99
Q5 Blue flower	98	Q11 Yellow green	97	Q17 Magenta	99
Q6 Bluish green	94	Q12 Orange yellow	99	Q18 Cyan	99