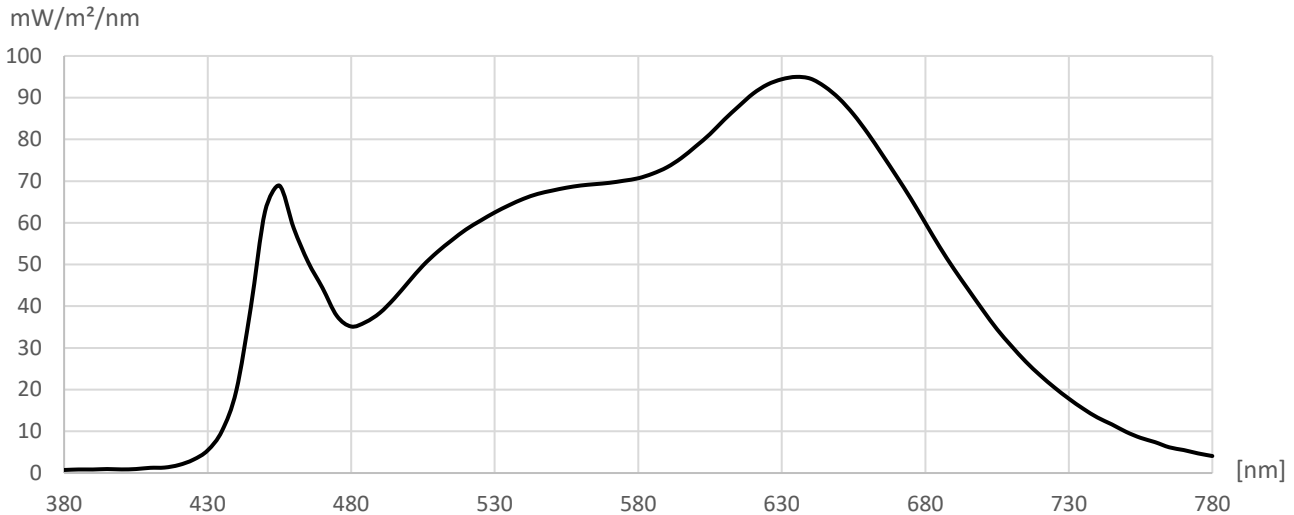


Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.
 Type: UltraBright™ Render Series LED Strip Light
 Model: UB-RS-35K97C

Measurement file: UB-RS-35K97C.CSV
 Date of measurement: 15.05.2023
 Time of measurement: 15:42:32



R1 = 97.5	Ra = 97.8	Illuminance	4,987.14 lx	CIE1931
R2 = 99.1	Re = 96.5	Ee	18.498 W/m ²	x = 0.4037
R3 = 97.0	GAI = 71.2	LER	269.6 lm/W	y = 0.3891
R4 = 98.6				
R5 = 97.8	TLCI = 99.0	Correlated Color Temperature (CCT)	3,521 K	CIE1976
R6 = 97.2		Duv	-0.0004	u' = 0.2353
R7 = 97.9	PPFD			v' = 0.5104
R8 = 97.4	[μmol/m ² s]	Saturation	37.90 %	
R9 = 96.7	83.30			CIE1960
R10 = 99.7		Dominant wavelength	580 nm	u = 0.2353
R11 = 97.8		Peak wavelength	632 nm	v = 0.3402
R12 = 79.2				
R13 = 97.7		Flicker frequency	% < 1.0	TM30
R14 = 97.4		Percent Flicker	< 1.0	Rf = 92.1
R15 = 96.4		Flicker index	% < 1.0	Rg = 100.1

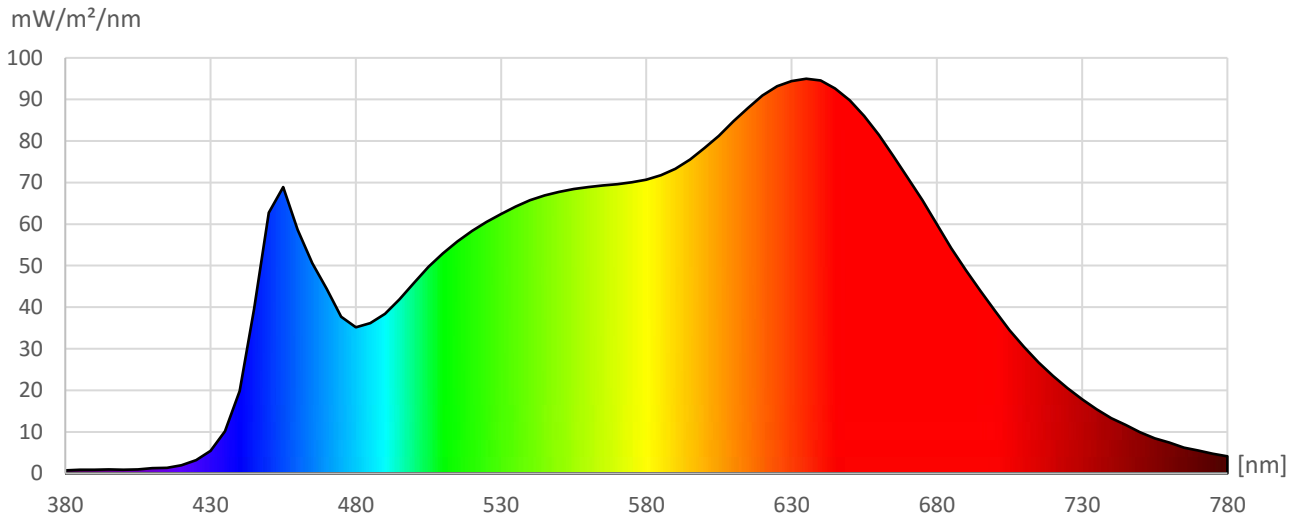
[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm
380	0.73	440	19.80	500	45.82	560	68.94	620	90.96	680	59.97	740	13.30
385	0.85	445	39.54	505	49.73	565	69.26	625	93.14	685	54.21	745	11.66
390	0.84	450	62.73	510	52.98	570	69.58	630	94.41	690	48.91	750	9.85
395	0.95	455	68.91	515	55.78	575	70.09	635	94.98	695	43.98	755	8.43
400	0.86	460	58.69	520	58.38	580	70.67	640	94.56	700	39.11	760	7.41
405	0.95	465	50.59	525	60.49	585	71.77	645	92.64	705	34.47	765	6.16
410	1.25	470	44.39	530	62.47	590	73.30	650	89.79	710	30.47	770	5.51
415	1.31	475	37.68	535	64.20	595	75.52	655	86.00	715	26.70	775	4.71
420	1.93	480	35.13	540	65.74	600	78.30	660	81.43	720	23.44	780	4.07
425	3.19	485	36.17	545	66.92	605	81.26	665	76.35	725	20.50		
430	5.42	490	38.40	550	67.71	610	84.75	670	71.14	730	17.83		
435	10.10	495	41.83	555	68.41	615	87.92	675	65.75	735	15.42		

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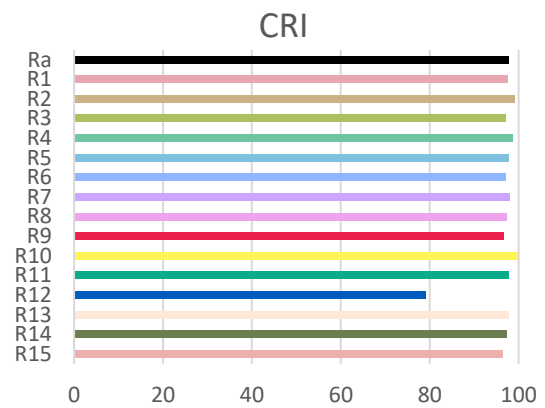
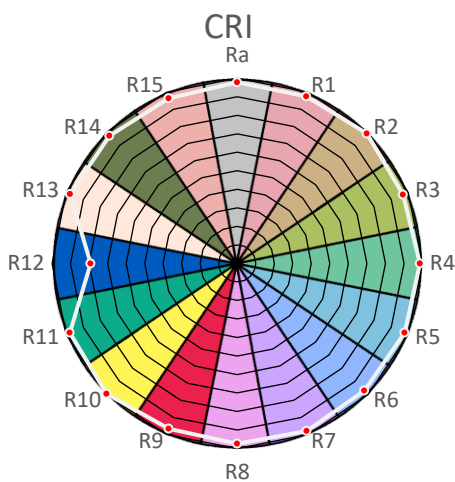
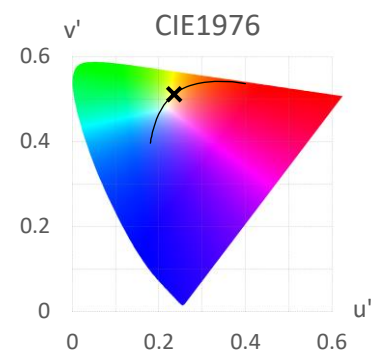
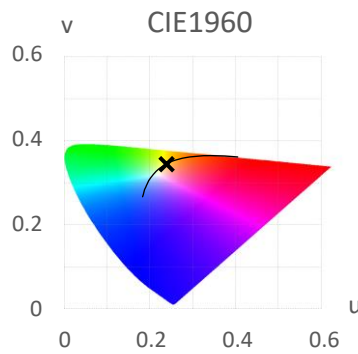
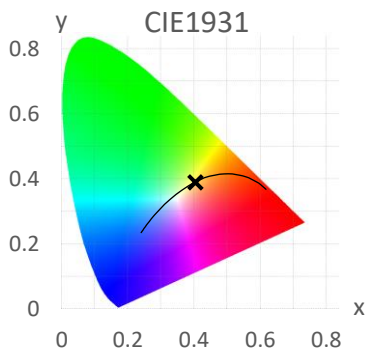
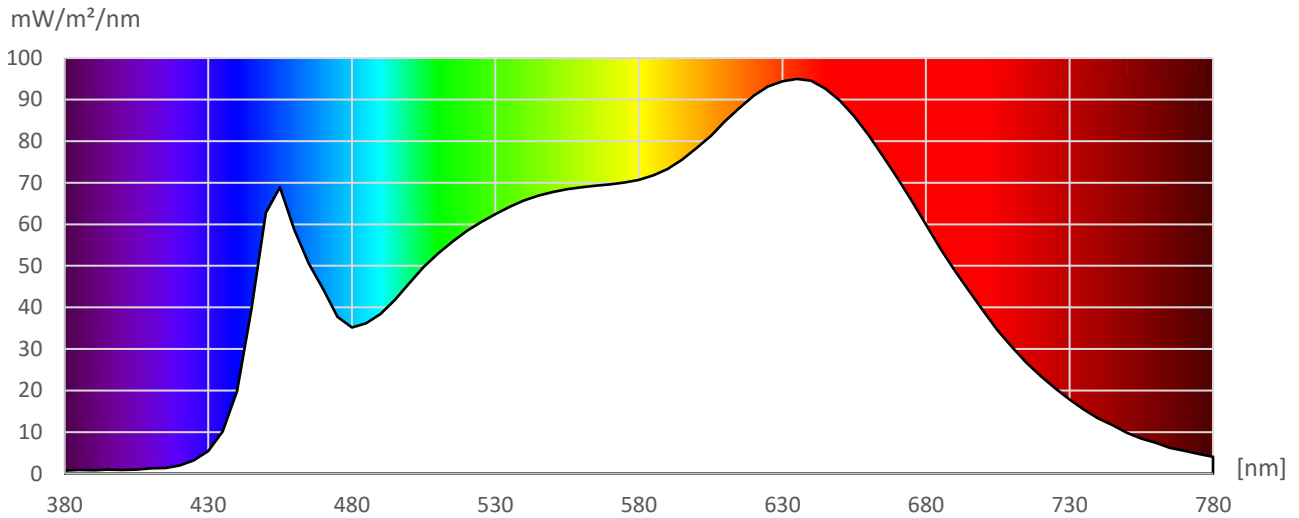
[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm
380	0.73	535	64.20	690	48.91								
385	0.85	540	65.74	695	43.98								
390	0.84	545	66.92	700	39.11								
395	0.95	550	67.71	705	34.47								
400	0.86	555	68.41	710	30.47								
405	0.95	560	68.94	715	26.70								
410	1.25	565	69.26	720	23.44								
415	1.31	570	69.58	725	20.50								
420	1.93	575	70.09	730	17.83								
425	3.19	580	70.67	735	15.42								
430	5.42	585	71.77	740	13.30								
435	10.10	590	73.30	745	11.66								
440	19.80	595	75.52	750	9.85								
445	39.54	600	78.30	755	8.43								
450	62.73	605	81.26	760	7.41								
455	68.91	610	84.75	765	6.16								
460	58.69	615	87.92	770	5.51								
465	50.59	620	90.96	775	4.71								
470	44.39	625	93.14	780	4.07								
475	37.68	630	94.41										
480	35.13	635	94.98										
485	36.17	640	94.56										
490	38.40	645	92.64										
495	41.83	650	89.79										
500	45.82	655	86.00										
505	49.73	660	81.43										
510	52.98	665	76.35										
515	55.78	670	71.14										
520	58.38	675	65.75										
525	60.49	680	59.97										
530	62.47	685	54.21										

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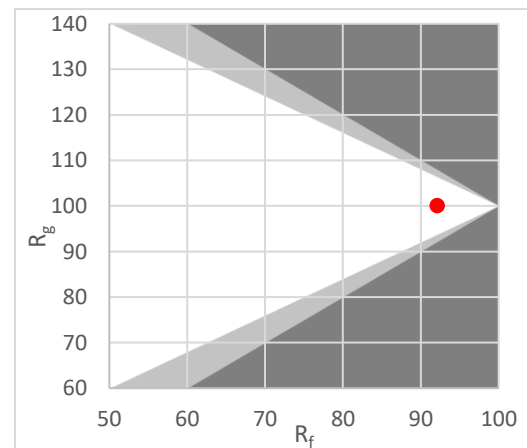
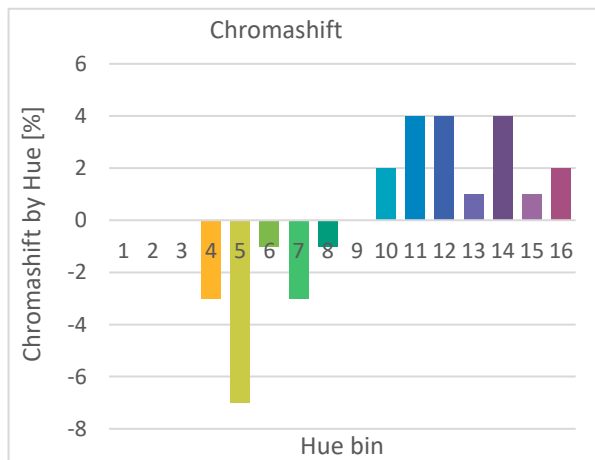
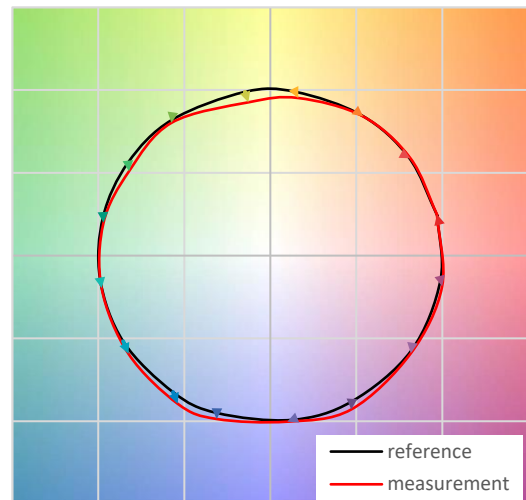
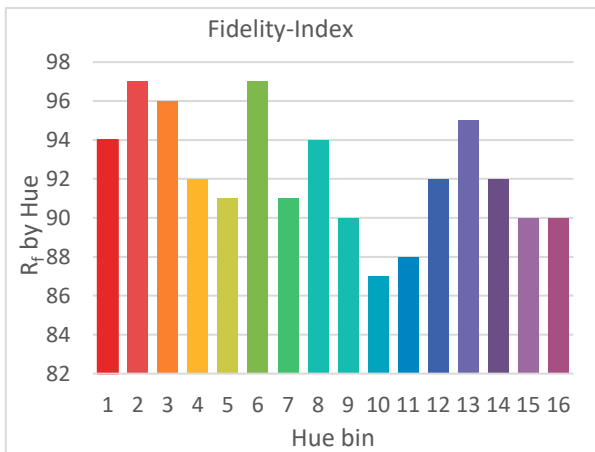
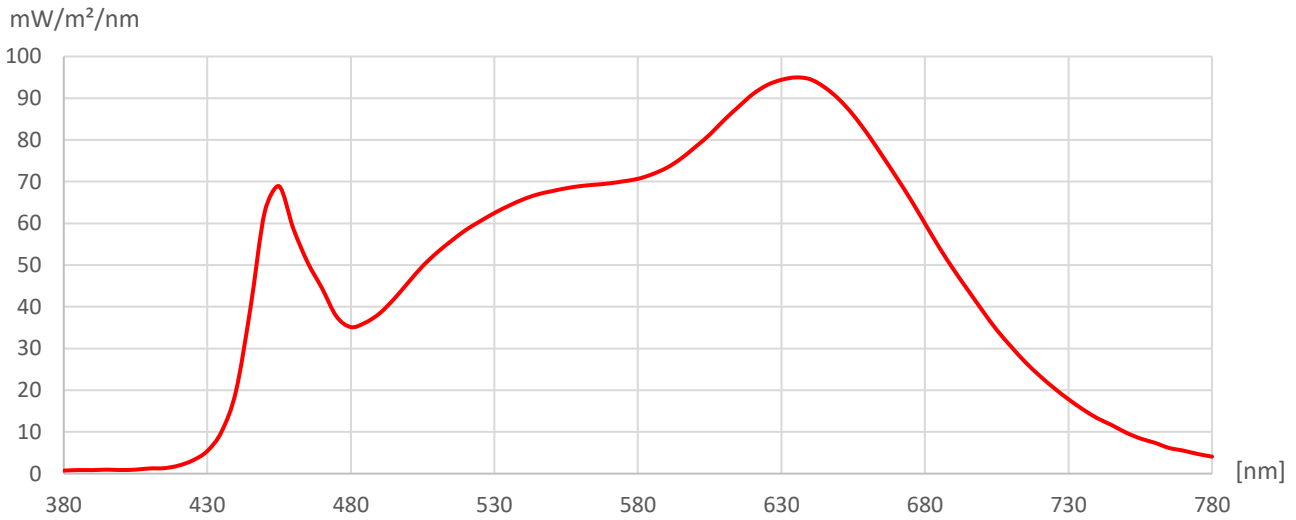


Measurement Protocol



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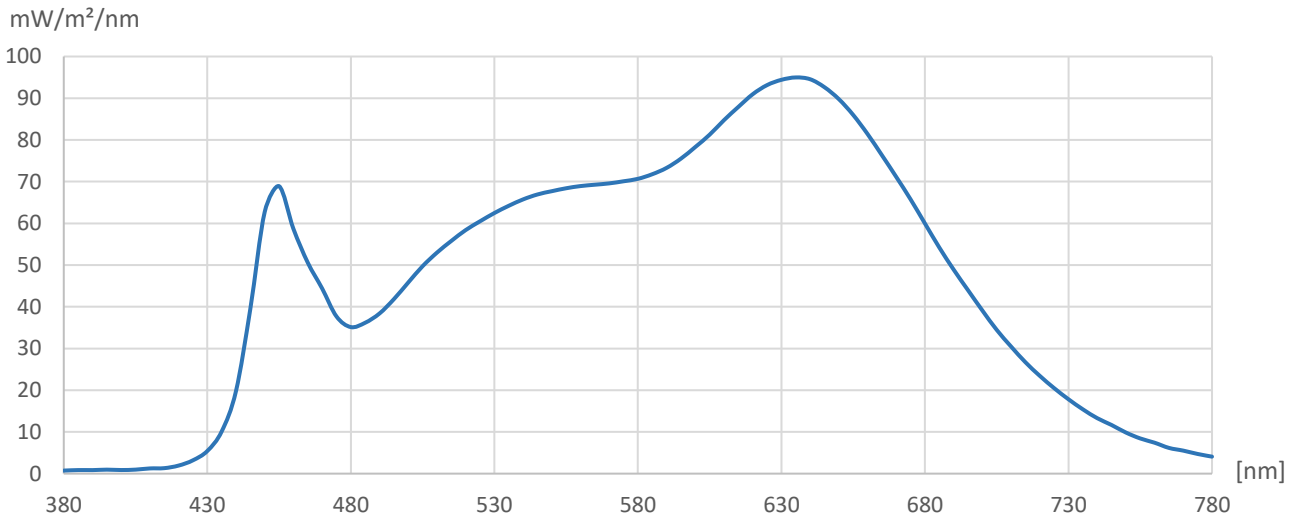


Measurement Protocol



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 Type: UltraBright™ Render Series LED Strip Light
 Model: UB-RS-35K97C

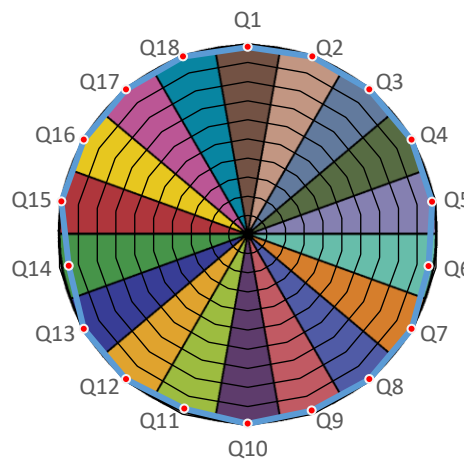
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correlated color temperature (CCT) 3,521 K
 TLCI 99

Reference Spectrum Plank-Daylight Mix

	Lightness	Chroma	Hue
R	0	0	0
R/Y	0	0	-1
Y	0	0	-1
Y/G	0	0	-1
G	0	0	-1
G/C	0	0	-1
C	0	0	-1
C/B	0	0	-1
B	0	-1	0
B/M	0	0	1
M	0	1	0
M/R	0	1	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	96	Q12 Orange yellow	99	Q18 Cyan	99