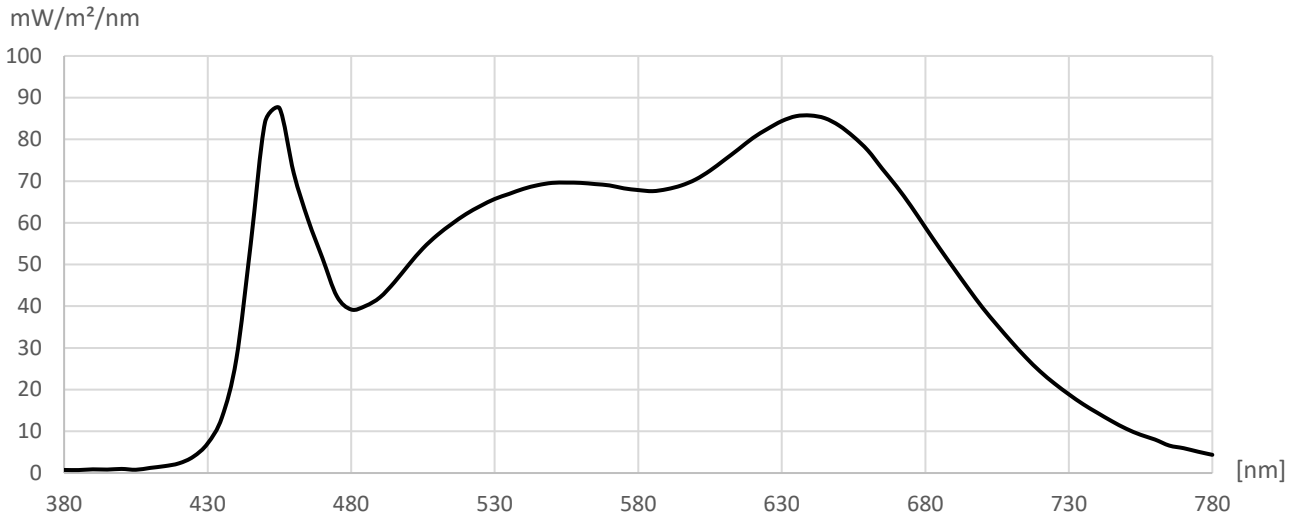


# Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.  
 Type: UltraBright™ Render Series LED Strip Light  
 Model: UB-RS-40K95C

Measurement file: UB-RS-40K95C.CSV  
 Date of measurement: 15.05.2023  
 Time of measurement: 15:47:26



R1 = 97.5	Ra = 97.3	Illuminance	4,924.95 lx	CIE1931
R2 = 99.6	Re = 95.1	Ee	18.651 W/m <sup>2</sup>	x = 0.3770
R3 = 95.7	GAI = 81.6	LER	264.1 lm/W	y = 0.3738
R4 = 98.8				
R5 = 97.5	TLCI = 99.0	Correlated Color Temperature (CCT)	4,073 K	CIE1976
R6 = 96.5		Duv	-0.0004	u' = 0.2240
R7 = 97.7	PPFD			v' = 0.4998
R8 = 94.7	[μmol/m <sup>2</sup> s]	Saturation	25.30 %	
R9 = 88.3	82.79			CIE1960
R10 = 98.4		Dominant wavelength	578 nm	u = 0.2240
R11 = 98.1		Peak wavelength	453 nm	v = 0.3332
R12 = 74.4				
R13 = 97.8		Flicker frequency	% < 1.0	TM30
R14 = 96.9		Percent Flicker	< 1.0	Rf = 91.3
R15 = 94.5		Flicker index	% < 1.0	Rg = 100.3

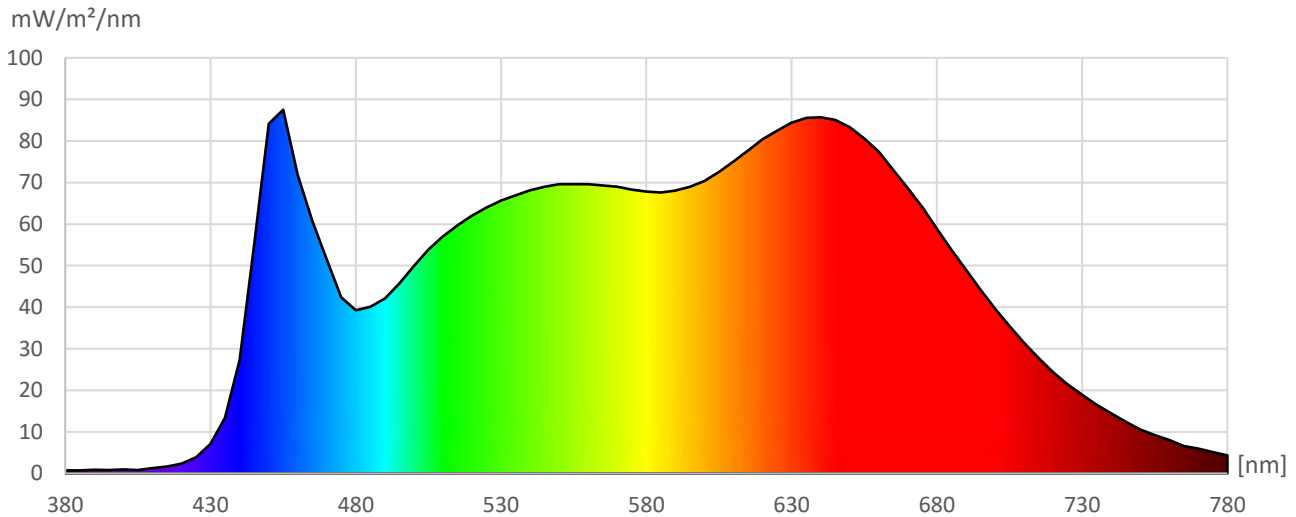
[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm
380	0.74	440	27.31	500	49.90	560	69.57	620	80.35	680	58.91	740	14.41
385	0.71	445	54.86	505	53.86	565	69.28	625	82.49	685	53.87	745	12.42
390	0.88	450	84.13	510	57.05	570	68.96	630	84.38	690	49.01	750	10.61
395	0.82	455	87.51	515	59.70	575	68.25	635	85.56	695	44.22	755	9.17
400	0.99	460	71.89	520	62.08	580	67.85	640	85.72	700	39.60	760	8.03
405	0.78	465	60.71	525	64.01	585	67.58	645	85.08	705	35.47	765	6.58
410	1.23	470	51.52	530	65.70	590	68.06	650	83.31	710	31.49	770	5.95
415	1.65	475	42.40	535	66.92	595	68.95	655	80.63	715	27.73	775	5.11
420	2.32	480	39.21	540	68.14	600	70.38	660	77.35	720	24.36	780	4.36
425	3.91	485	40.06	545	69.02	605	72.50	665	72.96	725	21.47		
430	7.09	490	42.10	550	69.57	610	75.05	670	68.71	730	18.88		
435	13.37	495	45.69	555	69.63	615	77.67	675	64.01	735	16.49		

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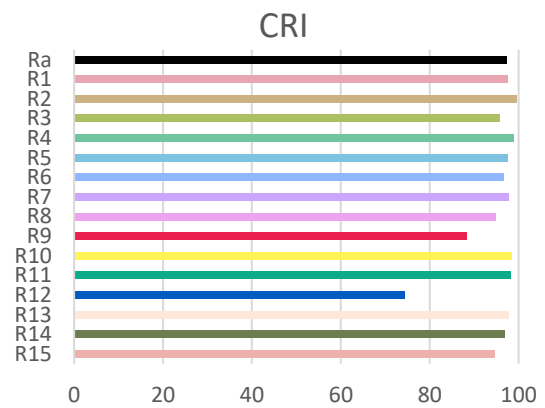
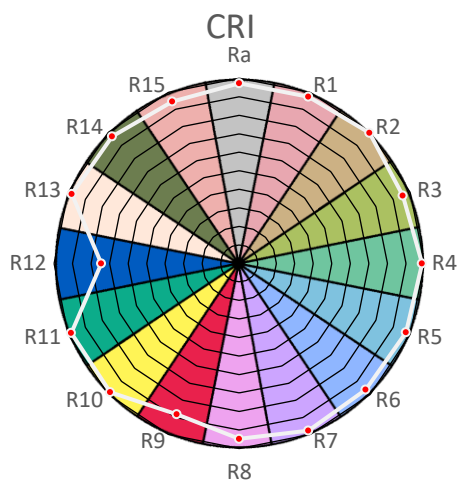
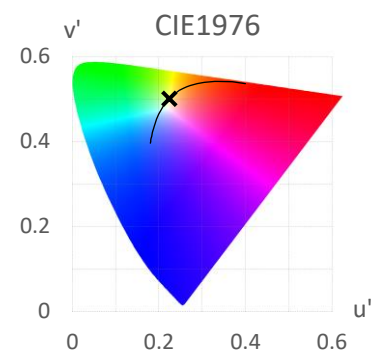
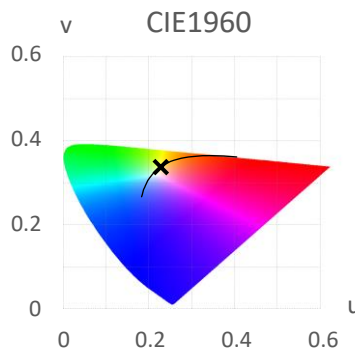
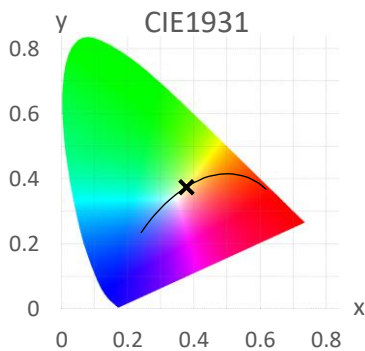
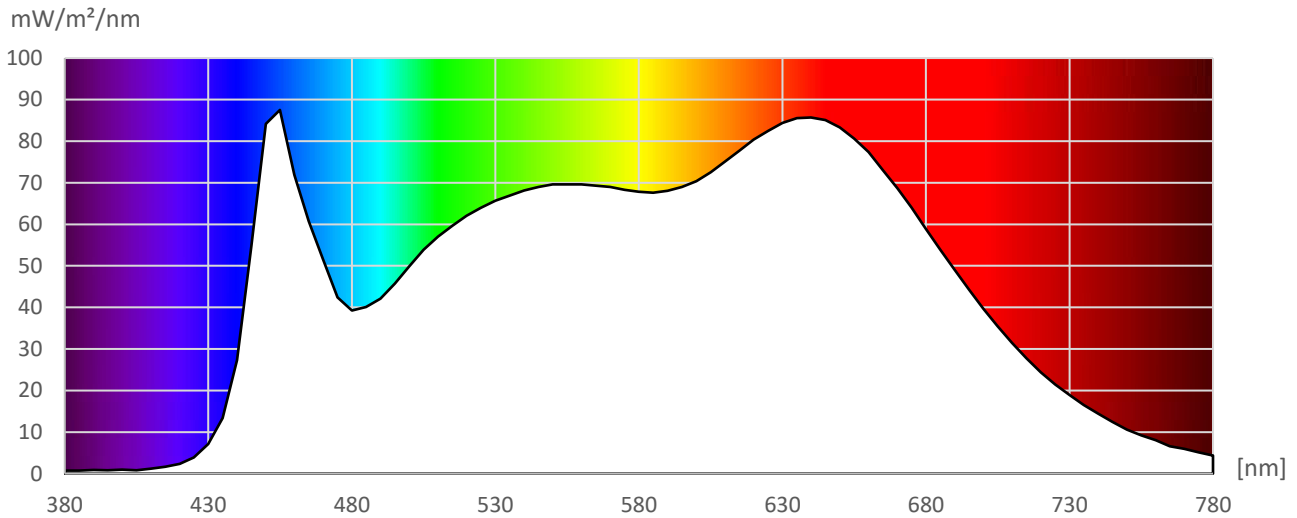
[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm
380	0.74	535	66.92	690	49.01								
385	0.71	540	68.14	695	44.22								
390	0.88	545	69.02	700	39.60								
395	0.82	550	69.57	705	35.47								
400	0.99	555	69.63	710	31.49								
405	0.78	560	69.57	715	27.73								
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460	71.89	615	77.67	770	5.95								
465	60.71	620	80.35	775	5.11								
470	51.52	625	82.49	780	4.36								
475	42.40	630	84.38										
480	39.21	635	85.56										
485	40.06	640	85.72										
490	42.10	645	85.08										
495	45.69	650	83.31										
500	49.90	655	80.63										
505	53.86	660	77.35										
510	57.05	665	72.96										
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520	62.08	675	64.01										
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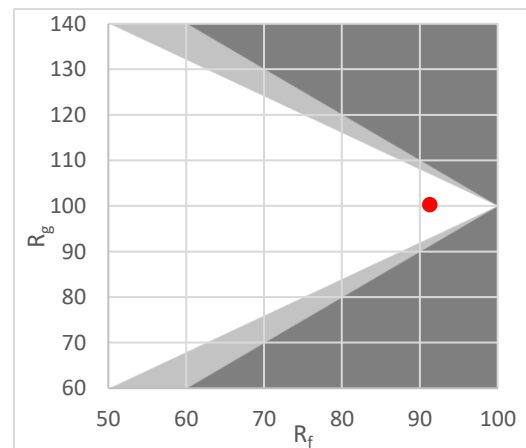
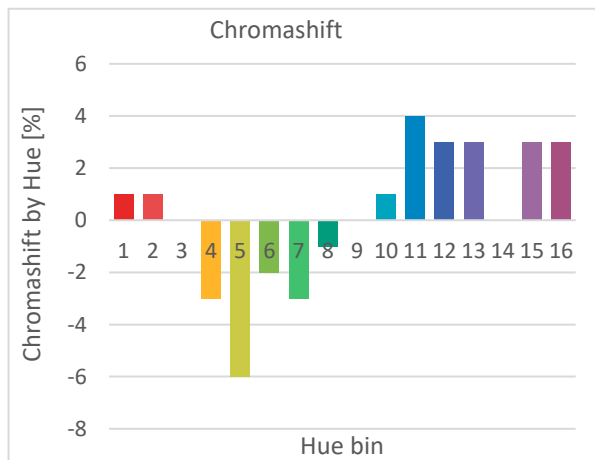
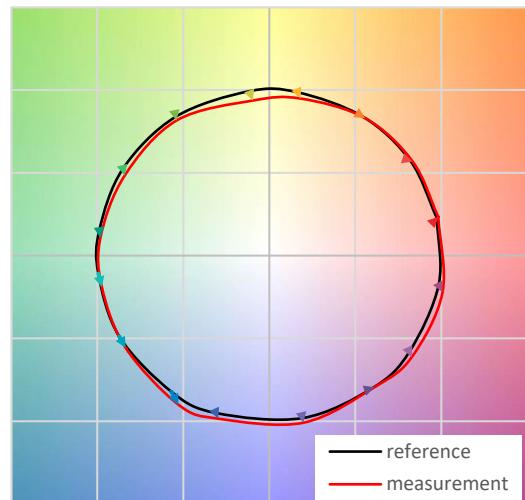
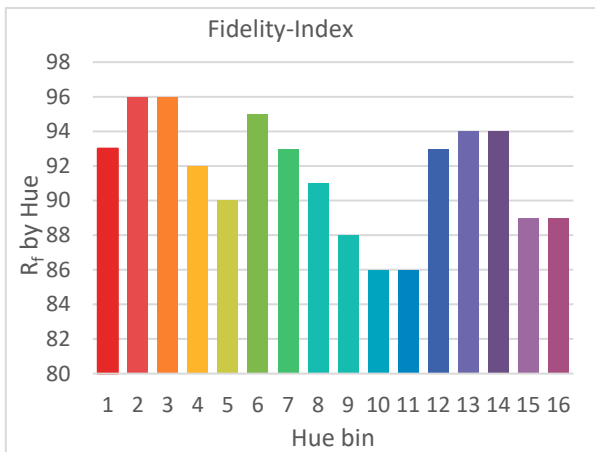
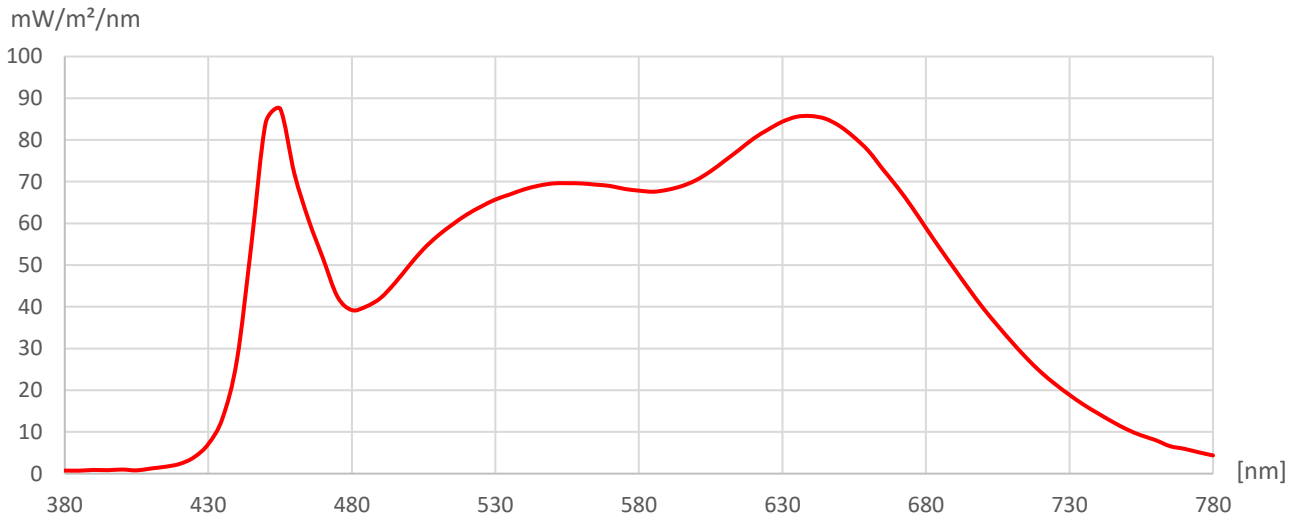


# Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.  
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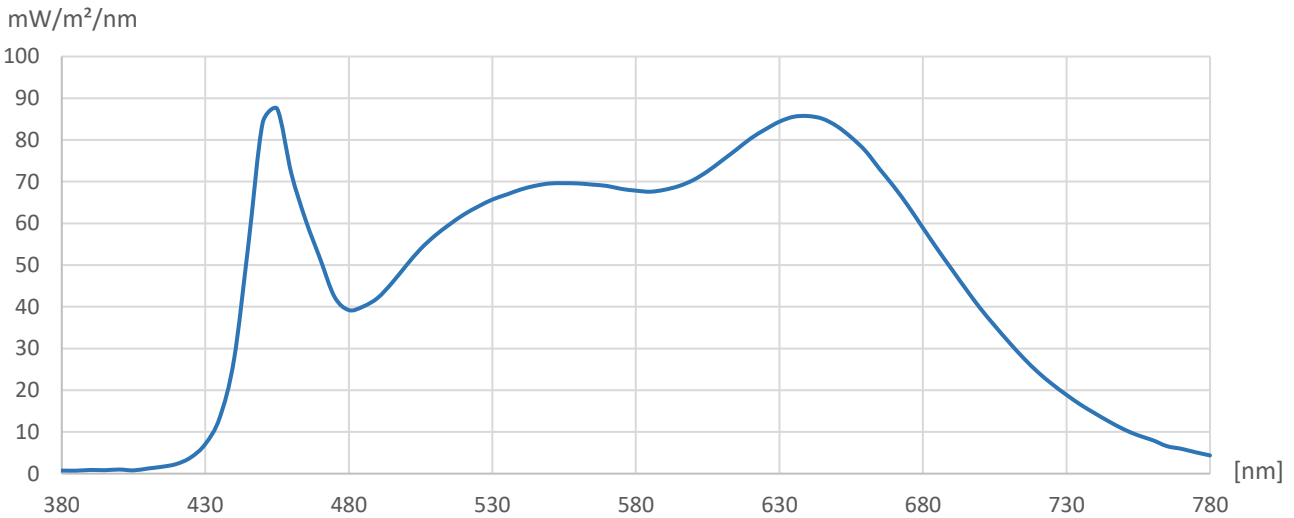


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 Model: UB-RS-40K95C

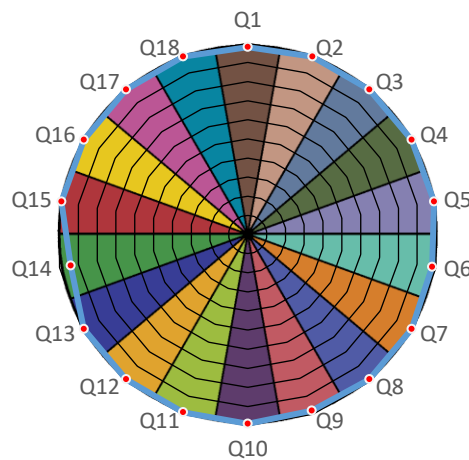
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correlated color temperature (CCT) 4,073 K  
 TLCI 99

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	0
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	94
Q3 Blue sky	99	Q9 Moderate red	98	Q15 Red	99
Q4 Foliage	99	Q10 Purple	99	Q16 Yellow	99
Q5 Blue flower	99	Q11 Yellow green	99	Q17 Magenta	99
Q6 Bluish green	98	Q12 Orange yellow	99	Q18 Cyan	99