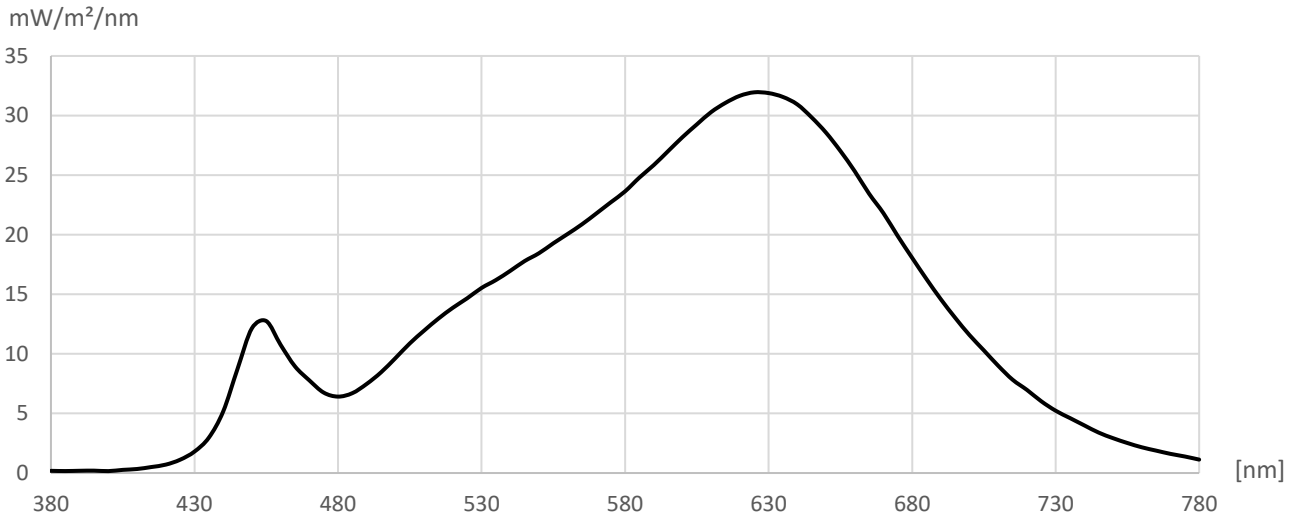


# Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.  
 Type: UltraBright™ Architectural Dynamic LED Strip Light  
 Model: UB-AS-DYN276290C

Measurement file: UB-AS-DYN.CSV  
 Date of measurement: 03.07.2023  
 Time of measurement: 12:04:12



R1 = 94.3	Ra = 93.7	Illuminance	1,484.33 lx	CIE1931
R2 = 97.3	Re = 91.4	Ee	5.363 W/m²	x = 0.4519
R3 = 98.0	GAI = 53.4	LER	276.7 lm/W	y = 0.4040
R4 = 93.4				
R5 = 93.9	TLCI = 93.0	Correlated Color Temperature (CCT)	2,763 K	CIE1976
R6 = 96.3		Duv	-0.0017	u' = 0.2603
R7 = 92.4	PPFD			v' = 0.5236
R8 = 84.2	[μmol/m²s]	Saturation	56.60 %	
R9 = 66.1	24.58			CIE1960
R10 = 92.4		Dominant wavelength	584 nm	u = 0.2603
R11 = 94.0		Peak wavelength	625 nm	v = 0.3491
R12 = 84.4				
R13 = 95.2		Flicker frequency	% < 1.0	TM30
R14 = 98.2		Percent Flicker	< 1.0	Rf = 91.0
R15 = 91.3		Flicker index	% < 1.0	Rg = 100.2

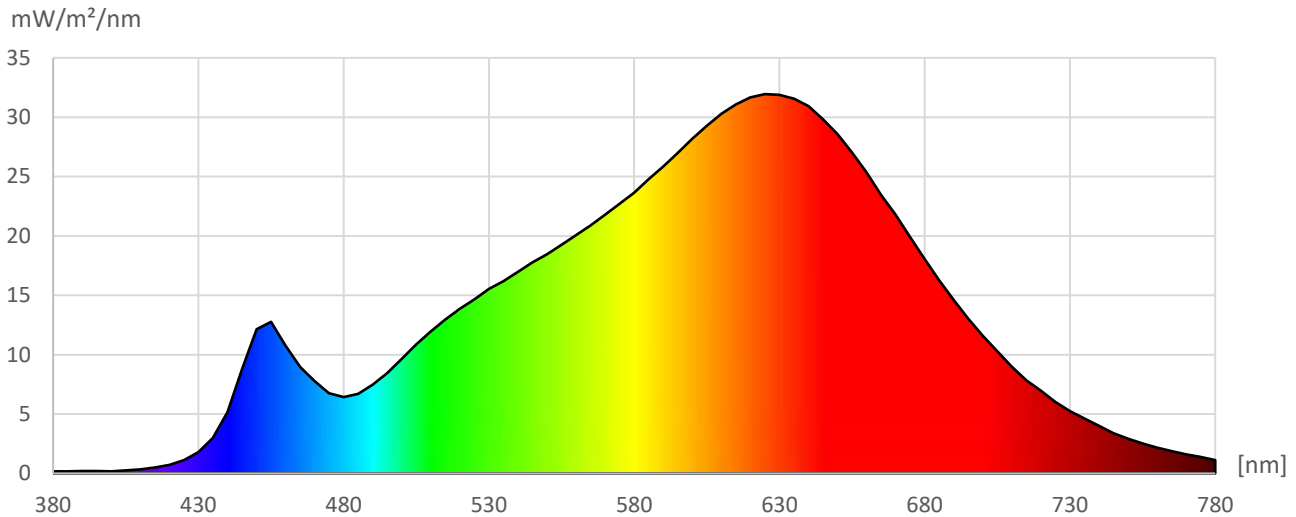
[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm
380	0.18	440	5.17	500	9.64	560	20.06	620	31.66	680	18.06	740	4.00
385	0.16	445	8.74	505	10.88	565	20.87	625	31.95	685	16.28	745	3.39
390	0.19	450	12.15	510	11.95	570	21.78	630	31.88	690	14.59	750	2.92
395	0.20	455	12.75	515	12.96	575	22.71	635	31.56	695	13.03	755	2.52
400	0.16	460	10.76	520	13.87	580	23.64	640	30.93	700	11.57	760	2.16
405	0.26	465	8.95	525	14.66	585	24.80	645	29.84	705	10.29	765	1.88
410	0.34	470	7.78	530	15.53	590	25.84	650	28.56	710	9.00	770	1.61
415	0.50	475	6.75	535	16.19	595	27.01	655	27.03	715	7.83	775	1.39
420	0.70	480	6.41	540	16.96	600	28.19	660	25.33	720	6.97	780	1.13
425	1.12	485	6.70	545	17.78	605	29.26	665	23.44	725	6.02		
430	1.80	490	7.48	550	18.44	610	30.29	670	21.81	730	5.23		
435	2.97	495	8.45	555	19.28	615	31.07	675	19.88	735	4.61		

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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	0.18	535	16.19	690	14.59								
385	0.16	540	16.96	695	13.03								
390	0.19	545	17.78	700	11.57								
395	0.20	550	18.44	705	10.29								
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420	0.70	575	22.71	730	5.23								
425	1.12	580	23.64	735	4.61								
430	1.80	585	24.80	740	4.00								
435	2.97	590	25.84	745	3.39								
440	5.17	595	27.01	750	2.92								
445	8.74	600	28.19	755	2.52								
450	12.15	605	29.26	760	2.16								
455	12.75	610	30.29	765	1.88								
460	10.76	615	31.07	770	1.61								
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470	7.78	625	31.95	780	1.13								
475	6.75	630	31.88										
480	6.41	635	31.56										
485	6.70	640	30.93										
490	7.48	645	29.84										
495	8.45	650	28.56										
500	9.64	655	27.03										
505	10.88	660	25.33										
510	11.95	665	23.44										
515	12.96	670	21.81										
520	13.87	675	19.88										
525	14.66	680	18.06										
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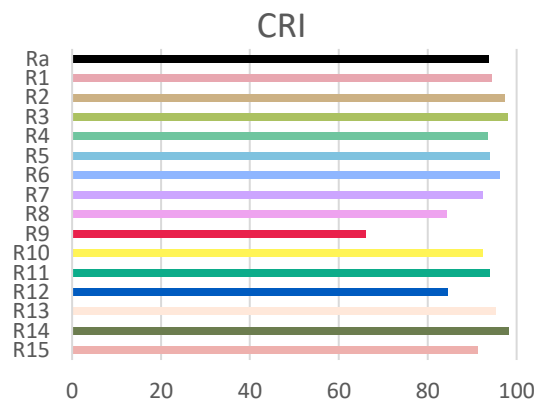
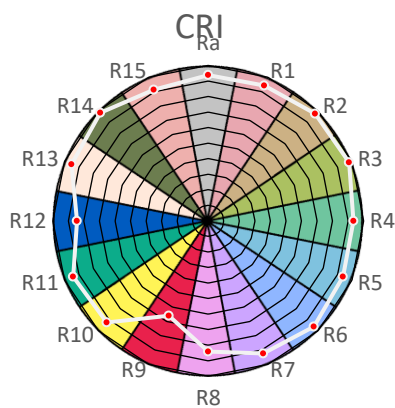
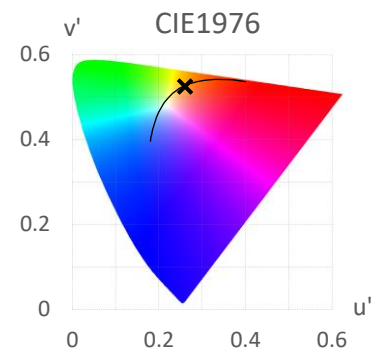
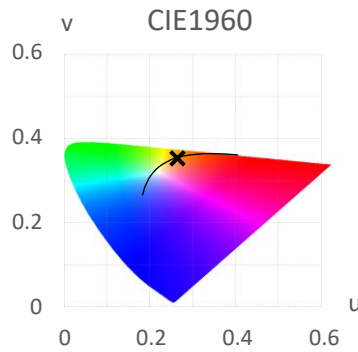
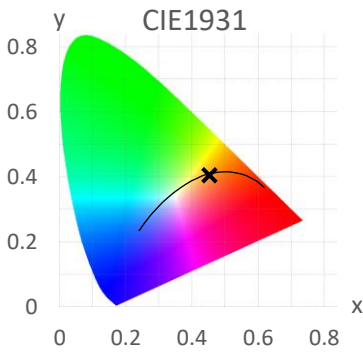
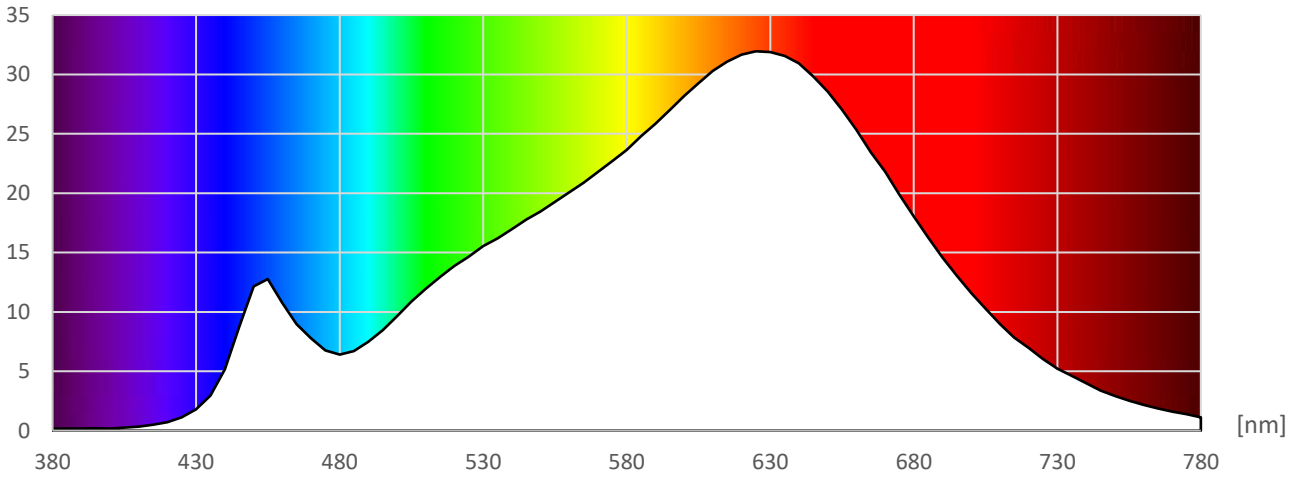
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mW/m<sup>2</sup>/nm

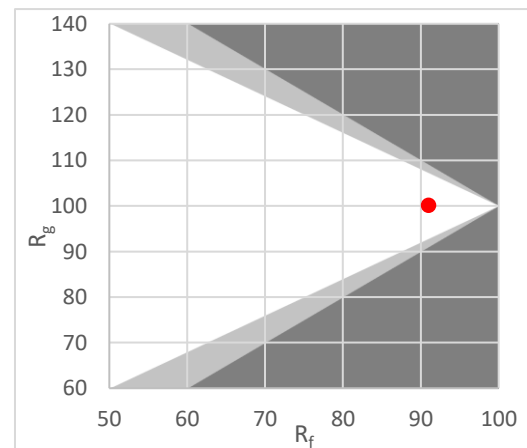
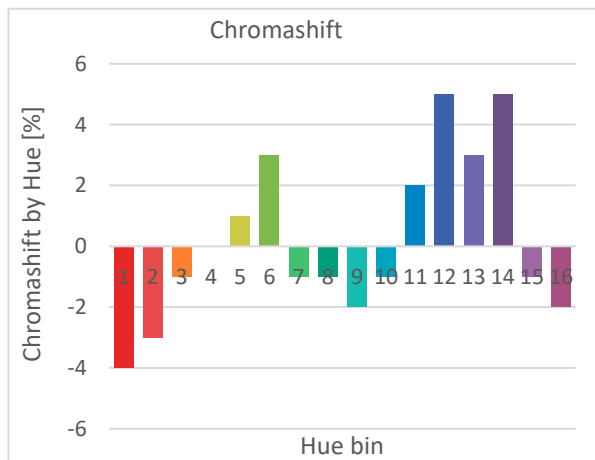
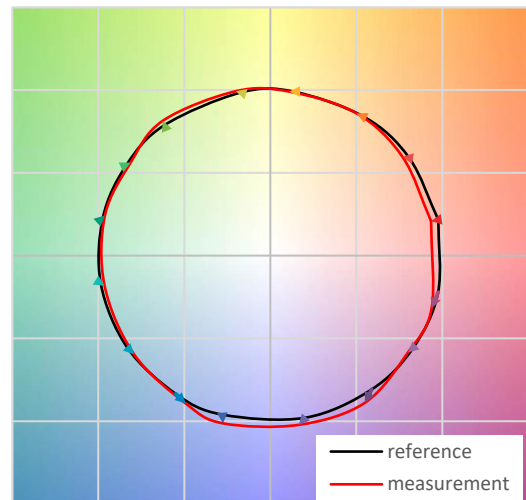
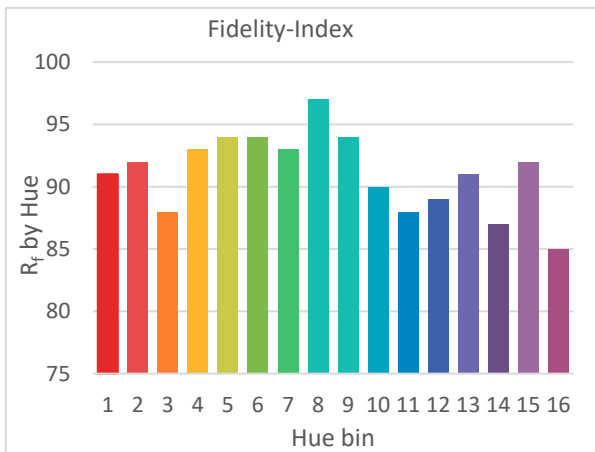
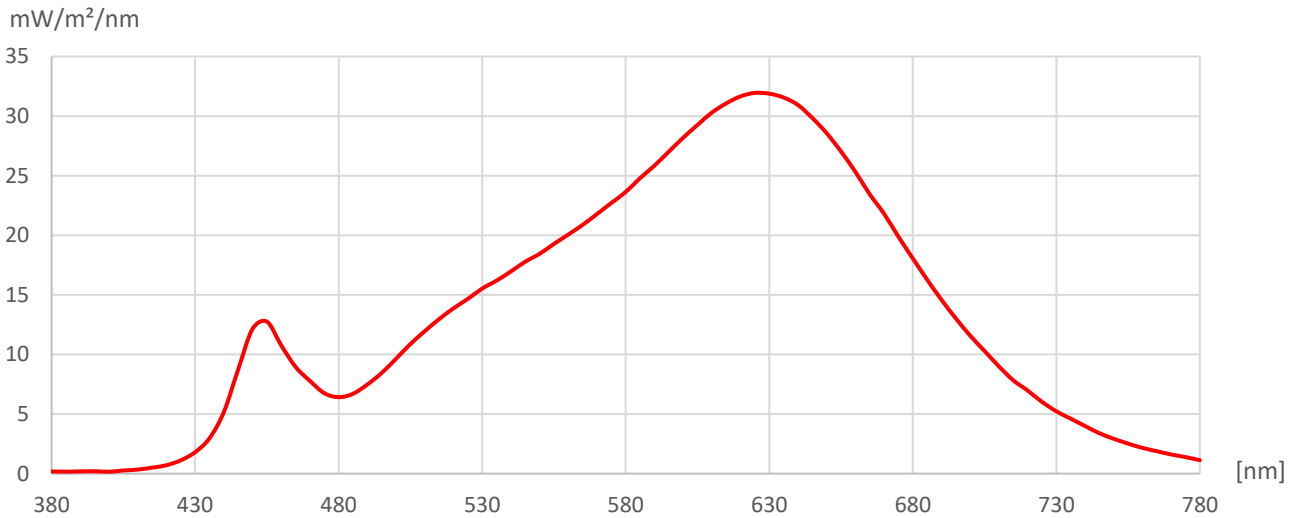


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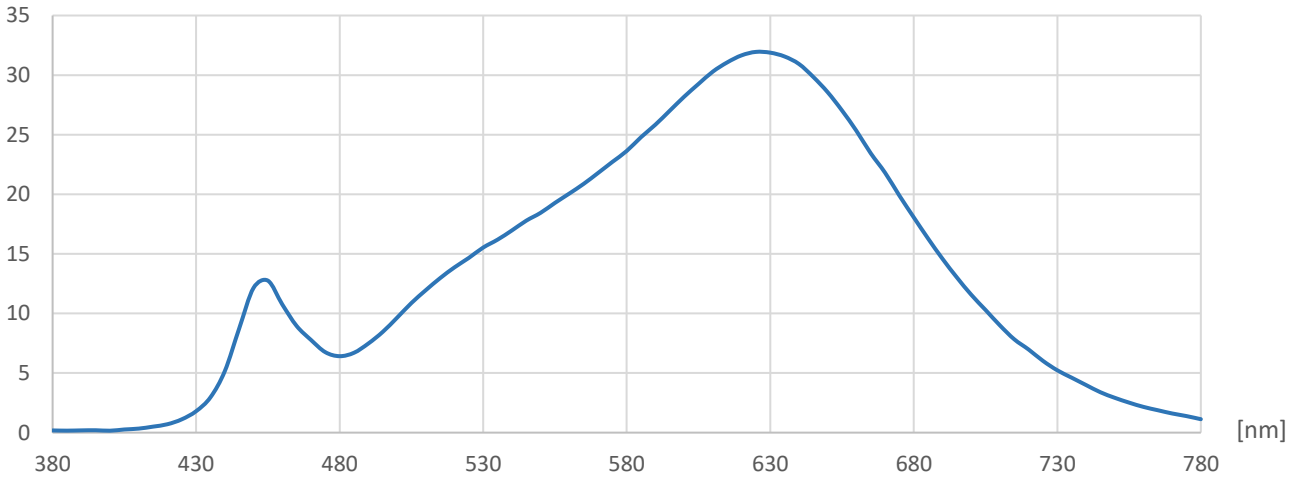
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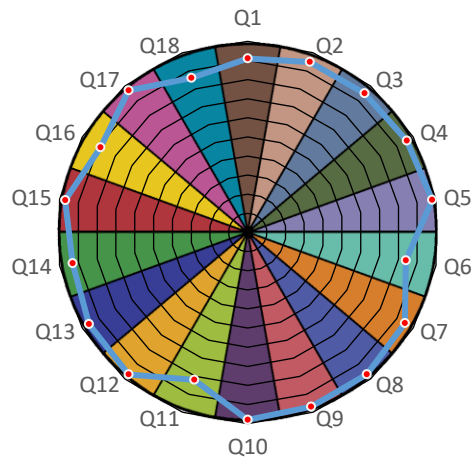
mW/m<sup>2</sup>/nm



correlated color temperature (CCT) 2,763 K  
 TLCI 93

Reference Spectrum Plank

	Lightness	Chroma	Hue
R	2	1	0
R/Y	0	0	-1
Y	0	0	-1
Y/G	0	0	0
G	0	0	1
G/C	0	0	1
C	0	0	1
C/B	0	0	-1
B	0	-1	-1
B/M	1	0	2
M	1	0	2
M/R	1	0	2



Test Colour	Value	Test Colour	Value	Test Colour	Value
Q1 Dark skin	91	Q7 Orange	95	Q13 Blue	96
Q2 Light skin	95	Q8 Purplish blue	97	Q14 Green	93
Q3 Blue sky	95	Q9 Moderate red	97	Q15 Red	97
Q4 Foliage	96	Q10 Purple	98	Q16 Yellow	89
Q5 Blue flower	98	Q11 Yellow green	82	Q17 Magenta	97
Q6 Bluish green	84	Q12 Orange yellow	97	Q18 Cyan	86