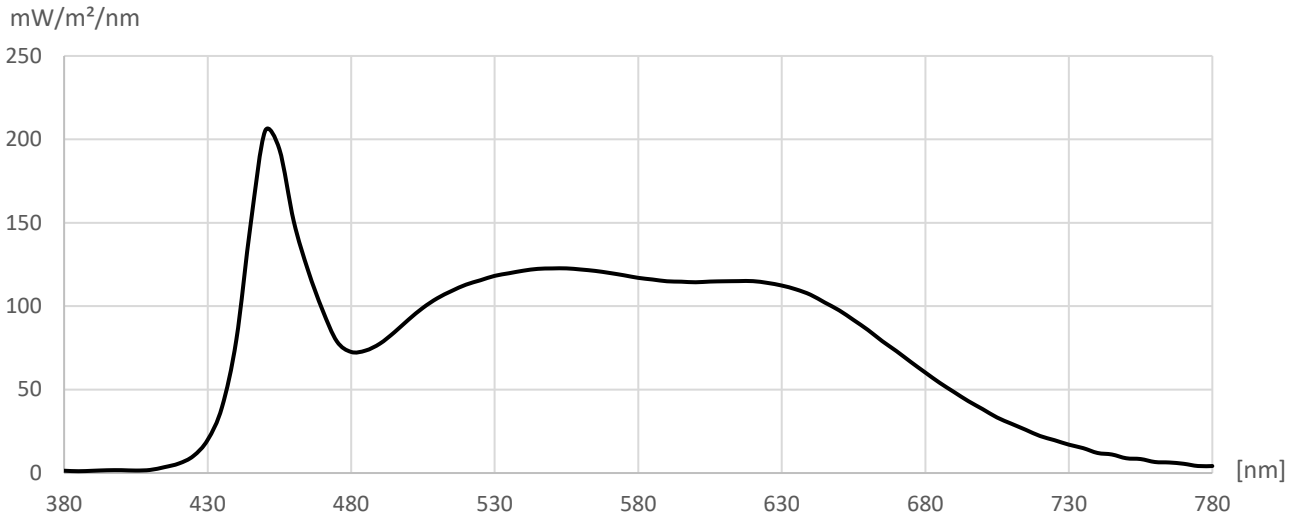


# Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.  
 Type: White LED Light Sheet  
 Model: LST-50K

Measurement file: LST-50K.CSV  
 Date of measurement: 11.12.2023  
 Time of measurement: 17:12:06



R1 = 94.1	Ra = 93.6	Illuminance	8,366.53 lx	CIE1931
R2 = 95.9	Re = 90.8	Ee	29.329 W/m <sup>2</sup>	x = 0.3417
R3 = 94.9	GAI = 89.2	LER	285.3 lm/W	y = 0.3512
R4 = 93.4				
R5 = 93.1	TLCI = 96.0	Correlated Color Temperature (CCT)	5,129 K	CIE1976
R6 = 91.7		Duv	0.0012	u' = 0.2093
R7 = 95.5	PPFD			v' = 0.4840
R8 = 90.4	[μmol/m <sup>2</sup> s]	Saturation	7.90 %	
R9 = 74.6	130.40			CIE1960
R10 = 88.6		Dominant wavelength	569 nm	u = 0.2093
R11 = 92.9		Peak wavelength	450 nm	v = 0.3227
R12 = 71.3				
R13 = 95.0		Flicker frequency	% < 1.0	TM30
R14 = 97.1		Percent Flicker	< 1.0	Rf = 88.2
R15 = 93.4		Flicker index	% < 1.0	Rg = 98.1

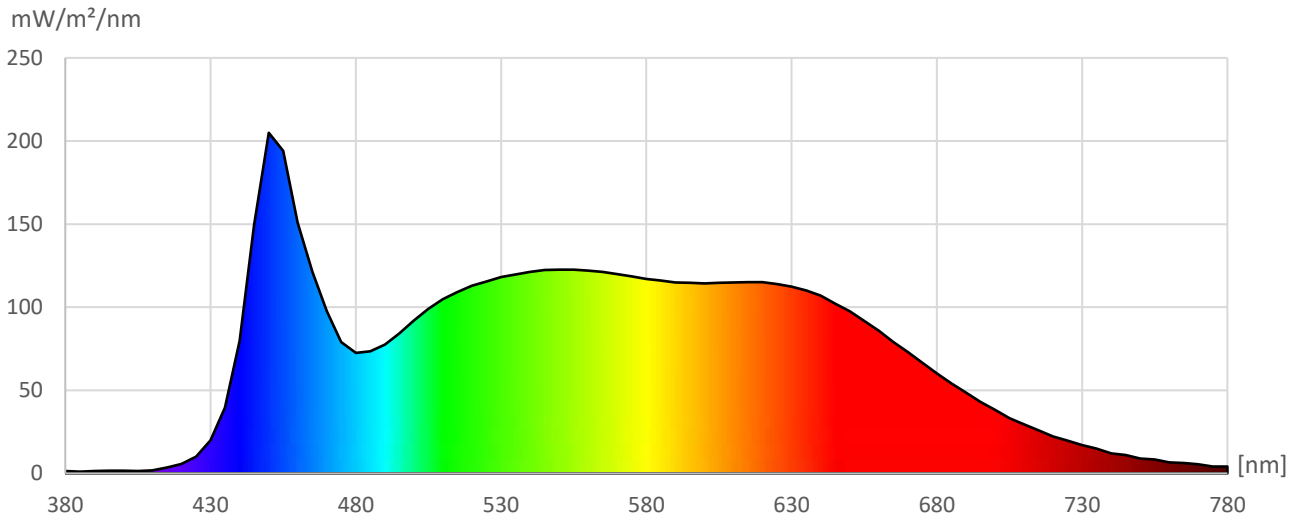
[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm
380	1.37	440	79.87	500	91.97	560	121.99	620	115.03	680	60.23	740	12.02
385	1.08	445	149.35	505	99.03	565	121.15	625	113.96	685	54.10	745	11.11
390	1.35	450	204.94	510	104.76	570	119.94	630	112.38	690	48.56	750	8.85
395	1.65	455	194.08	515	109.12	575	118.53	635	110.07	695	43.09	755	8.38
400	1.70	460	150.88	520	112.92	580	116.99	640	106.88	700	38.28	760	6.60
405	1.48	465	121.38	525	115.54	585	116.00	645	102.18	705	33.28	765	6.31
410	1.86	470	97.77	530	118.18	590	114.94	650	97.51	710	29.55	770	5.54
415	3.53	475	78.97	535	119.75	595	114.69	655	91.74	715	25.90	775	4.19
420	5.72	480	72.58	540	121.29	600	114.35	660	85.78	720	22.18	780	4.19
425	10.17	485	73.39	545	122.38	605	114.76	665	79.06	725	19.68		
430	19.85	490	77.54	550	122.64	610	114.93	670	73.01	730	17.00		
435	39.47	495	84.29	555	122.66	615	115.04	675	66.50	735	14.92		

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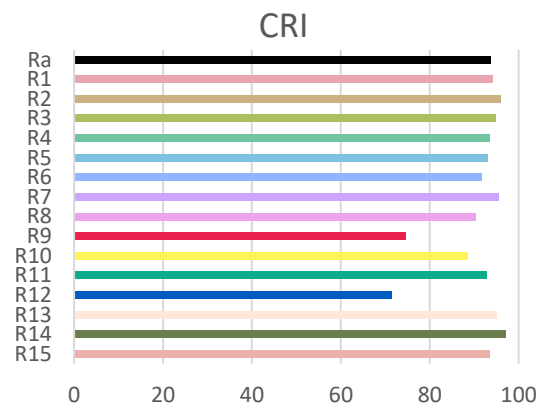
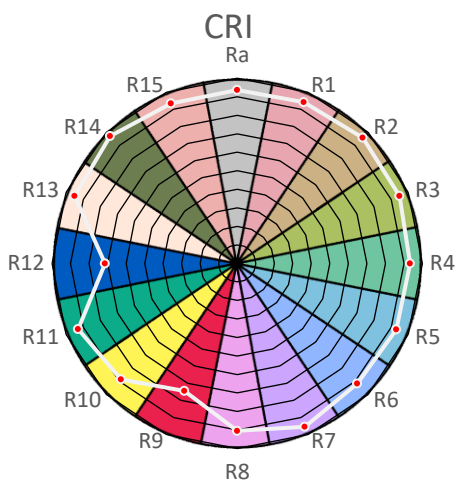
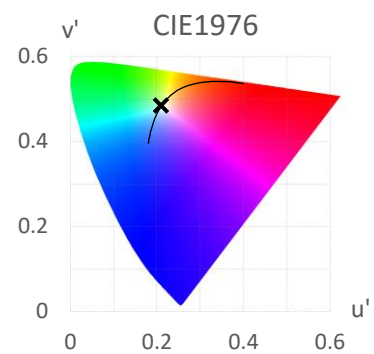
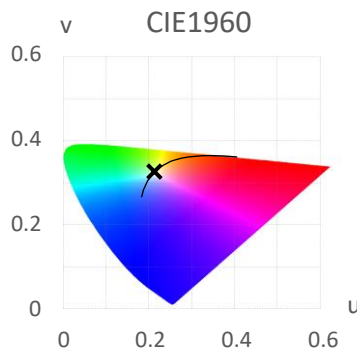
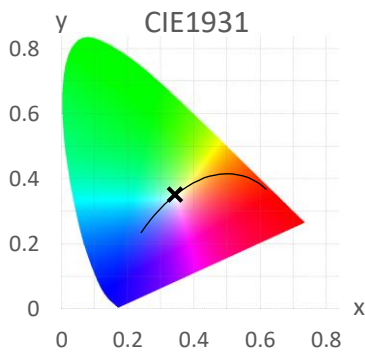
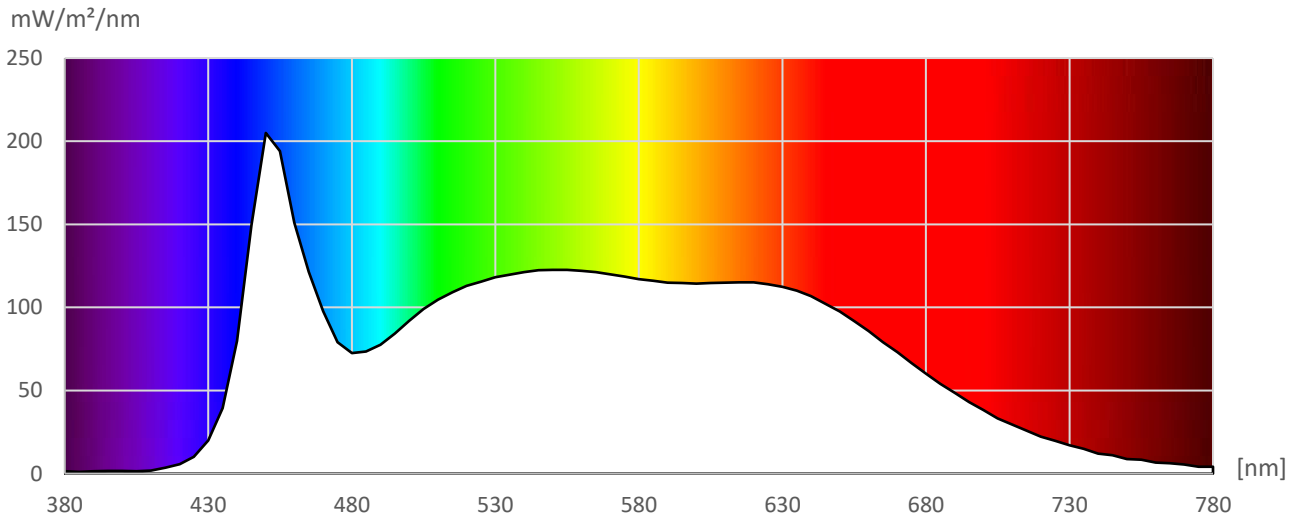
[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm
380	1.37	535	119.75	690	48.56								
385	1.08	540	121.29	695	43.09								
390	1.35	545	122.38	700	38.28								
395	1.65	550	122.64	705	33.28								
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475	78.97	630	112.38										
480	72.58	635	110.07										
485	73.39	640	106.88										
490	77.54	645	102.18										
495	84.29	650	97.51										
500	91.97	655	91.74										
505	99.03	660	85.78										
510	104.76	665	79.06										
515	109.12	670	73.01										
520	112.92	675	66.50										
525	115.54	680	60.23										
530	118.18	685	54.10										

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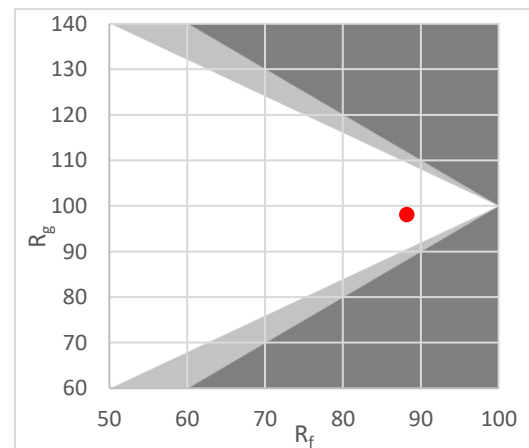
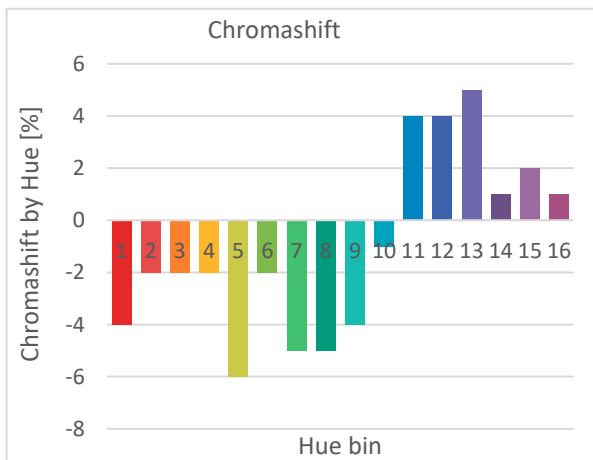
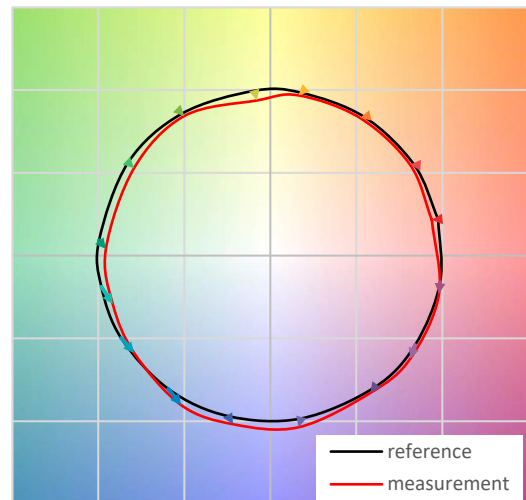
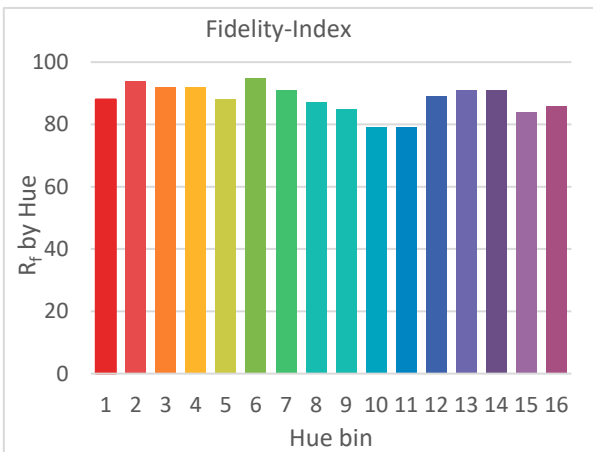
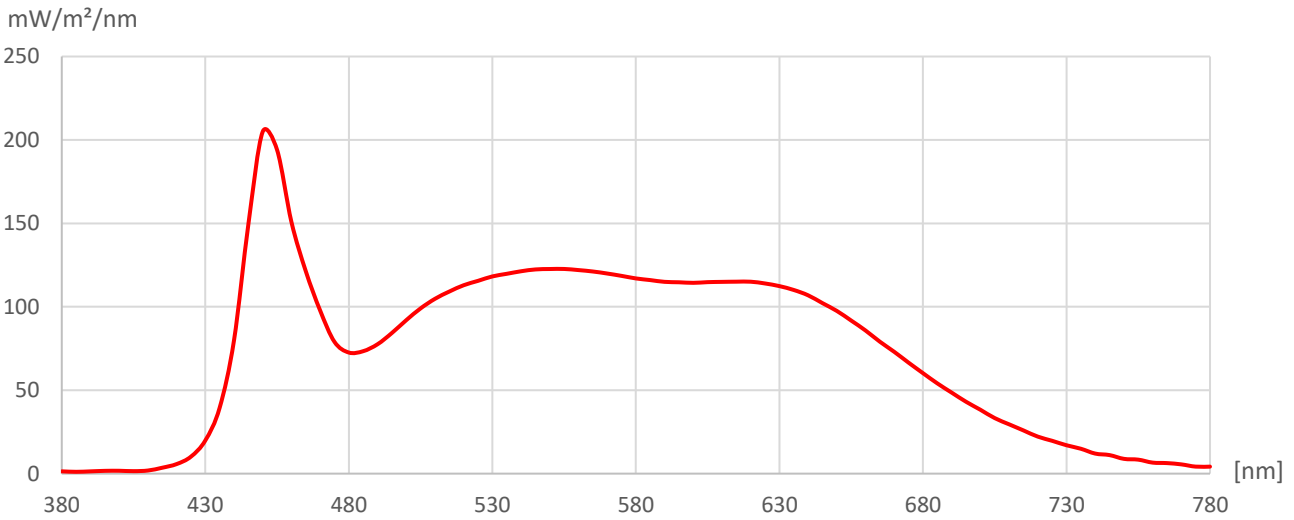


# Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.  
 Type: White LED Light Sheet  
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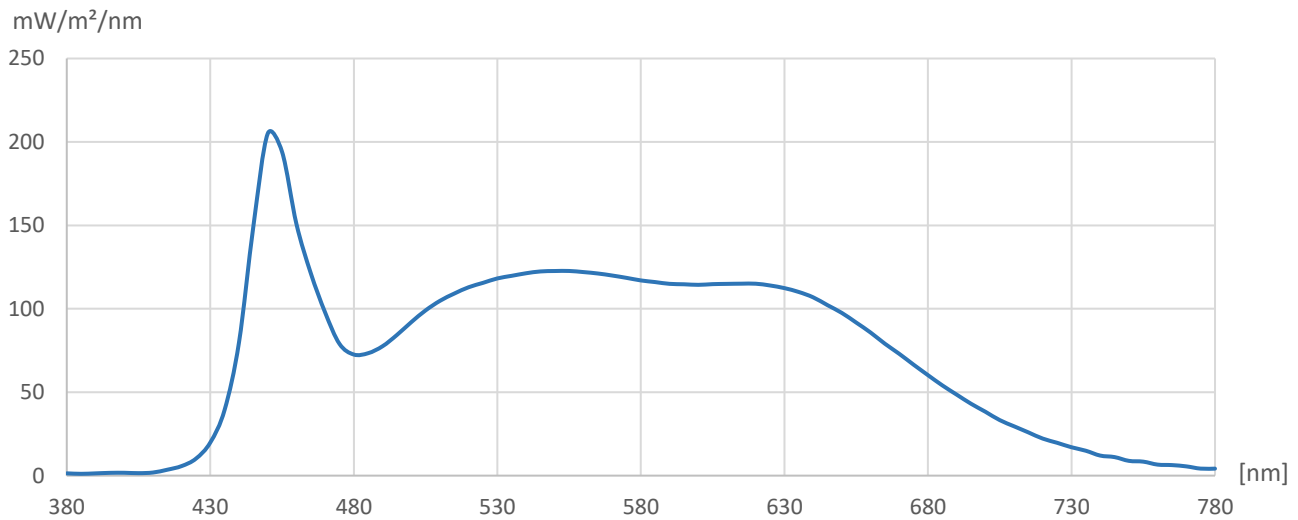


# Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.  
 Type: White LED Light Sheet  
 Model: LST-50K

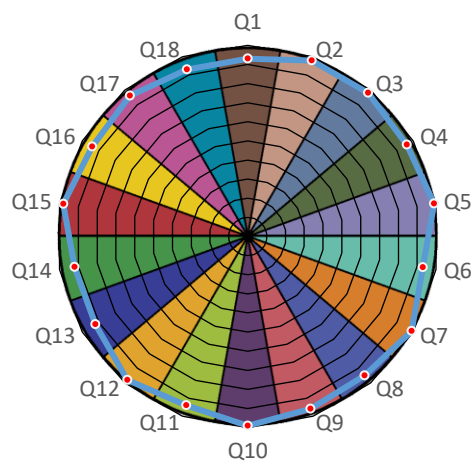
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correlated color temperature (CCT) 5,129 K  
 TLCI 96

Reference Spectrum Daylight

	Lightness	Chroma	Hue
R	1	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	-2
B	0	-1	-1
B/M	0	-1	1
M	0	0	1
M/R	1	0	1



Test Colour	Value	Test Colour	Value	Test Colour	Value			
Q1	Dark skin	93	Q7	Orange	99	Q13	Blue	92
Q2	Light skin	98	Q8	Purplish blue	95	Q14	Green	92
Q3	Blue sky	98	Q9	Moderate red	96	Q15	Red	98
Q4	Foliage	96	Q10	Purple	99	Q16	Yellow	94
Q5	Blue flower	99	Q11	Yellow green	94	Q17	Magenta	96
Q6	Bluish green	93	Q12	Orange yellow	98	Q18	Cyan	93