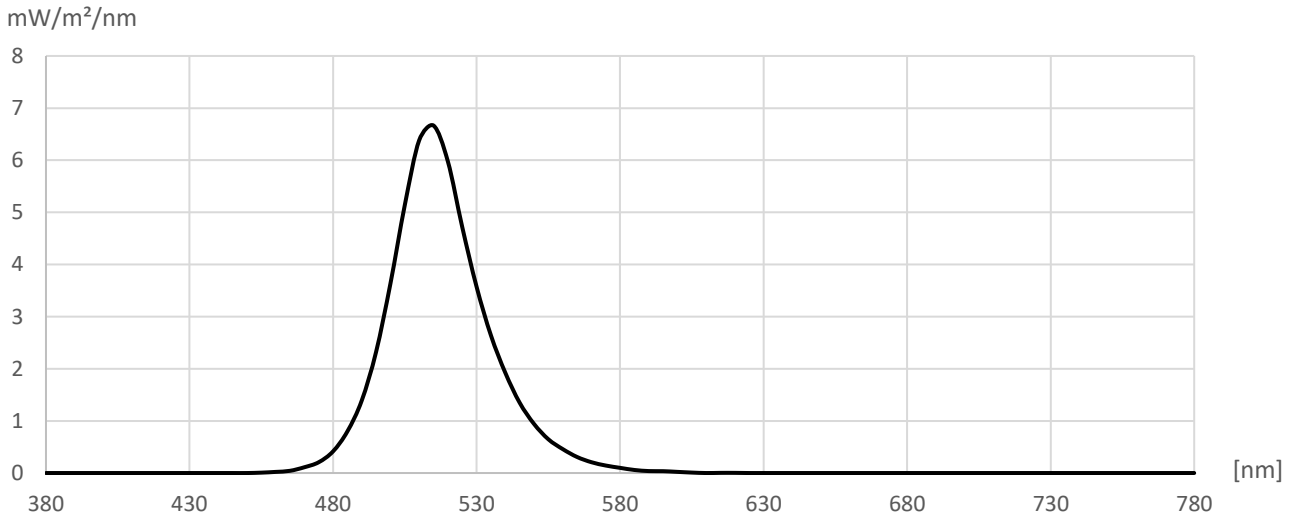


Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.
 Type: RGB LED Sign Modules
 Model: MOD-RGB (Green)

Measurement file: MOD-RGB.CSV
 Date of measurement: 25.10.2023
 Time of measurement: 15:42:28



R1 = -37.6	Ra = -26.9	Illuminance	106.68 lx	CIE1931
R2 = -10.3	Re = -57.4	Ee	0.251 W/m²	x = 0.1223
R3 = -27.6	GAI = 0.6	LER	424.2 lm/W	y = 0.7049
R4 = -66.4				
R5 = -10.3	TLCI = 2.0	Correlated Color Temperature (CCT)	8,811 K	CIE1976
R6 = -20.6		Duv	0.1689	u' = 0.0436
R7 = -10.4	PPFD			v' = 0.5657
R8 = -32.3	[µmol/m²s]	Saturation	75.10 %	
R9 = #####	1.10			CIE1960
R10 = #####		Dominant wavelength	514 nm	u = 0.0436
R11 = -93.8		Peak wavelength	513 nm	v = 0.3772
R12 = -34.3				
R13 = -44.7		Flicker frequency	% < 1.0	TM30
R14 = 36.4		Percent Flicker	< 1.0	Rf = 0.4
R15 = -37.4		Flicker index	% < 1.0	Rg = 6.0

[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	0.00	440	0.00	500	3.63	560	0.46	620	0.00	680	0.00	740	0.00
385	0.00	445	0.00	505	5.14	565	0.31	625	0.00	685	0.00	745	0.00
390	0.00	450	0.00	510	6.38	570	0.21	630	0.00	690	0.00	750	0.00
395	0.00	455	0.01	515	6.67	575	0.14	635	0.00	695	0.00	755	0.00
400	0.00	460	0.02	520	5.98	580	0.10	640	0.00	700	0.00	760	0.00
405	0.00	465	0.04	525	4.72	585	0.06	645	0.00	705	0.00	765	0.00
410	0.00	470	0.11	530	3.57	590	0.04	650	0.00	710	0.00	770	0.00
415	0.00	475	0.21	535	2.64	595	0.04	655	0.00	715	0.00	775	0.00
420	0.00	480	0.41	540	1.92	600	0.02	660	0.00	720	0.00	780	0.00
425	0.00	485	0.80	545	1.35	605	0.01	665	0.00	725	0.00		
430	0.00	490	1.39	550	0.94	610	0.00	670	0.00	730	0.00		
435	0.00	495	2.32	555	0.65	615	0.00	675	0.00	735	0.00		

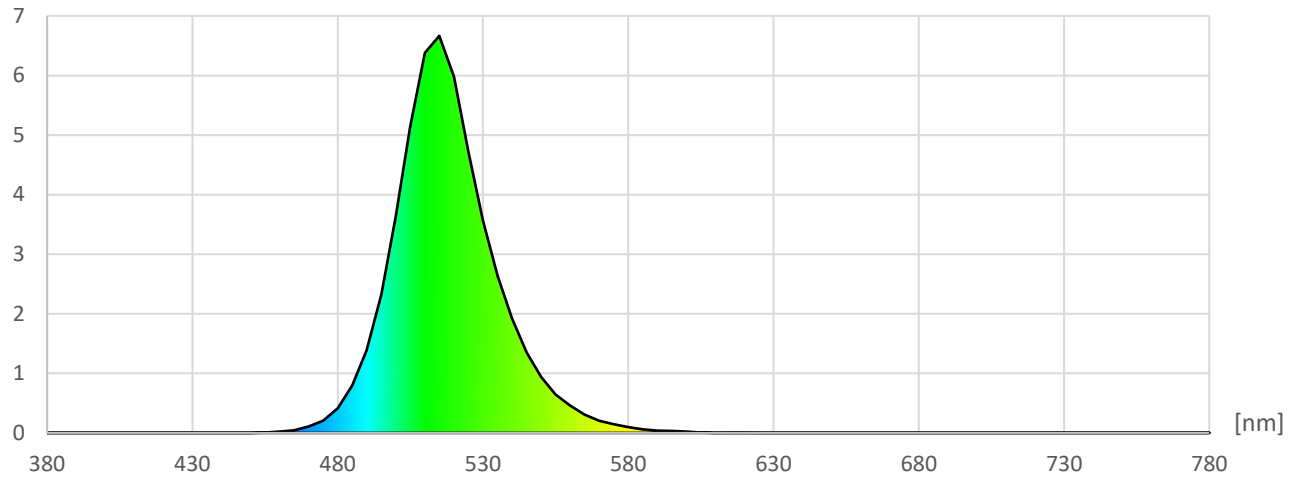
Measurement Protocol



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 Date of measurement: 25.10.2023
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mW/m²/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	[nm]	mW/m ² /nm
380	0.00	535	2.64	690	0.00								
385	0.00	540	1.92	695	0.00								
390	0.00	545	1.35	700	0.00								
395	0.00	550	0.94	705	0.00								
400	0.00	555	0.65	710	0.00								
405	0.00	560	0.46	715	0.00								
410	0.00	565	0.31	720	0.00								
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420	0.00	575	0.14	730	0.00								
425	0.00	580	0.10	735	0.00								
430	0.00	585	0.06	740	0.00								
435	0.00	590	0.04	745	0.00								
440	0.00	595	0.04	750	0.00								
445	0.00	600	0.02	755	0.00								
450	0.00	605	0.01	760	0.00								
455	0.01	610	0.00	765	0.00								
460	0.02	615	0.00	770	0.00								
465	0.04	620	0.00	775	0.00								
470	0.11	625	0.00	780	0.00								
475	0.21	630	0.00										
480	0.41	635	0.00										
485	0.80	640	0.00										
490	1.39	645	0.00										
495	2.32	650	0.00										
500	3.63	655	0.00										
505	5.14	660	0.00										
510	6.38	665	0.00										
515	6.67	670	0.00										
520	5.98	675	0.00										
525	4.72	680	0.00										
530	3.57	685	0.00										

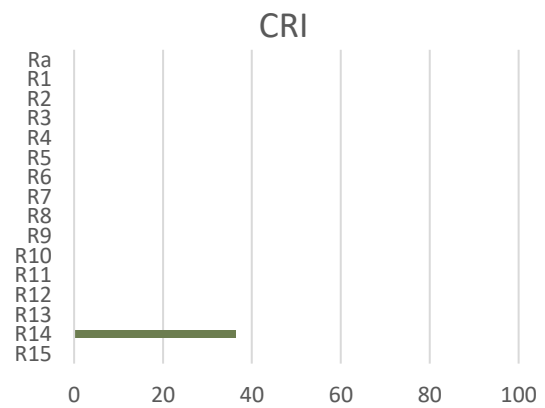
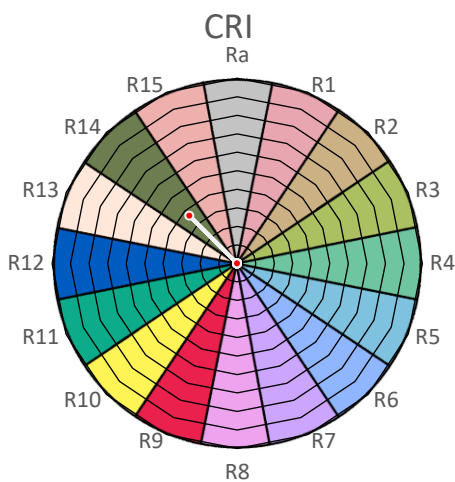
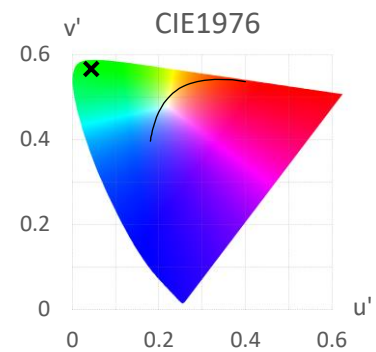
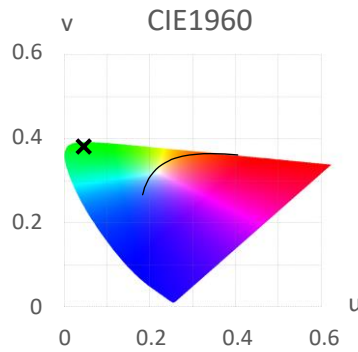
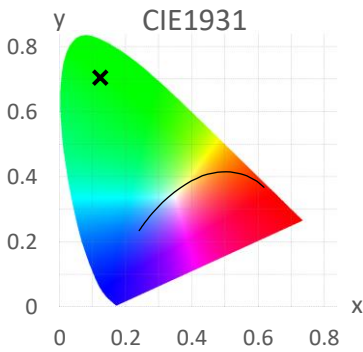
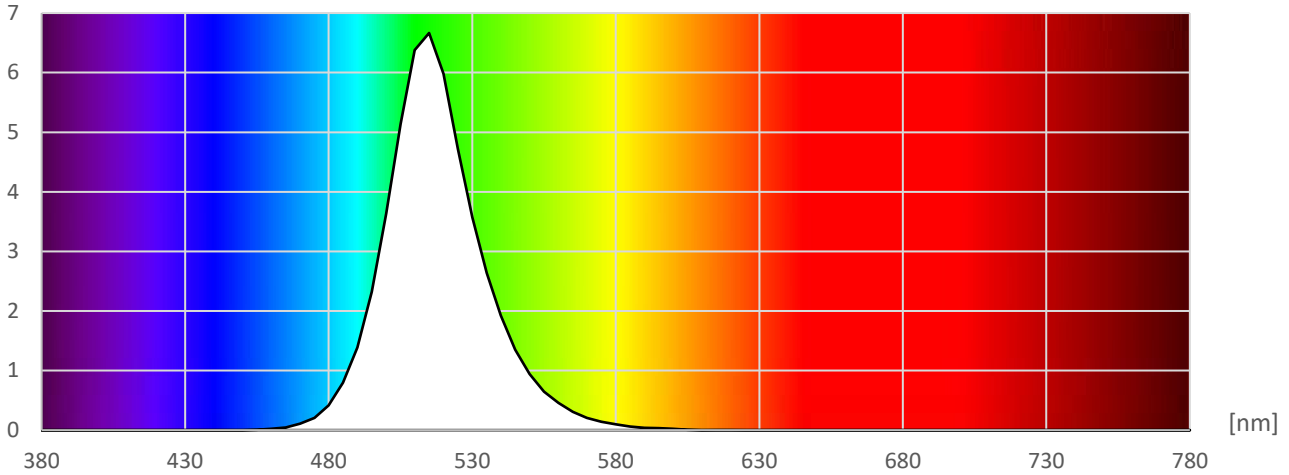
Measurement Protocol



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mW/m²/nm

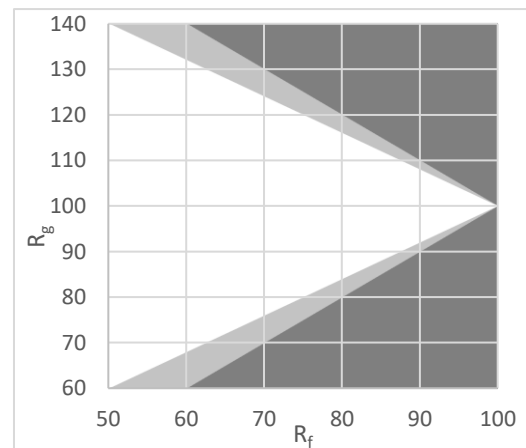
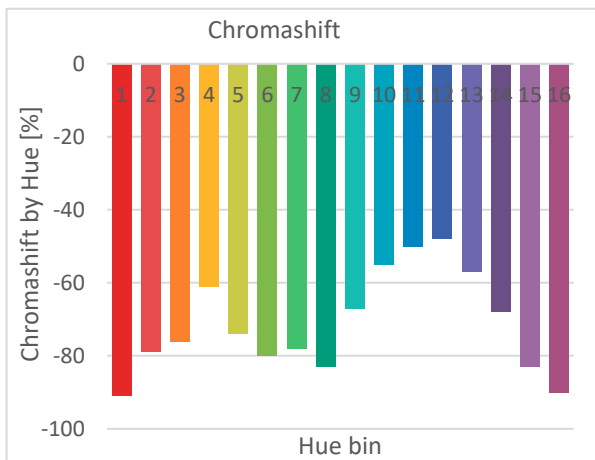
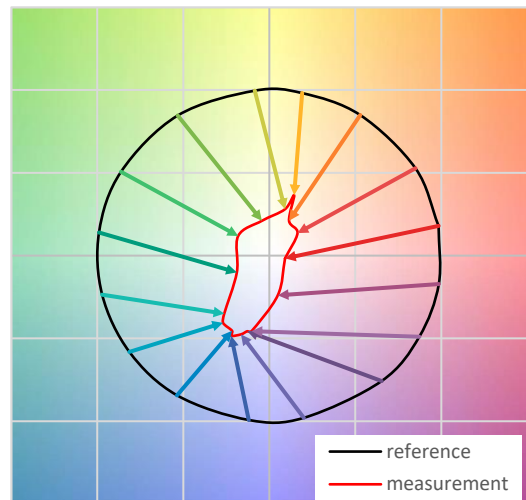
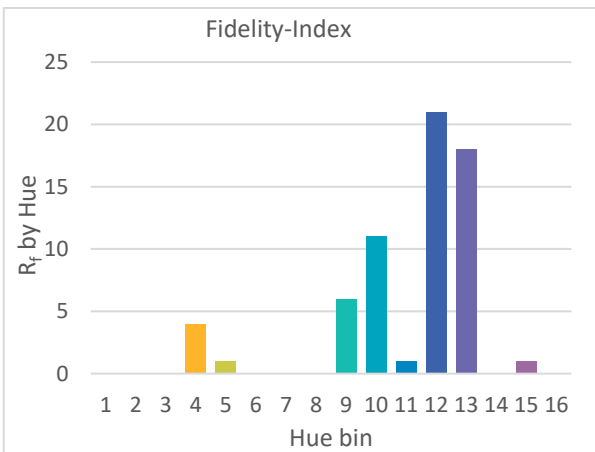
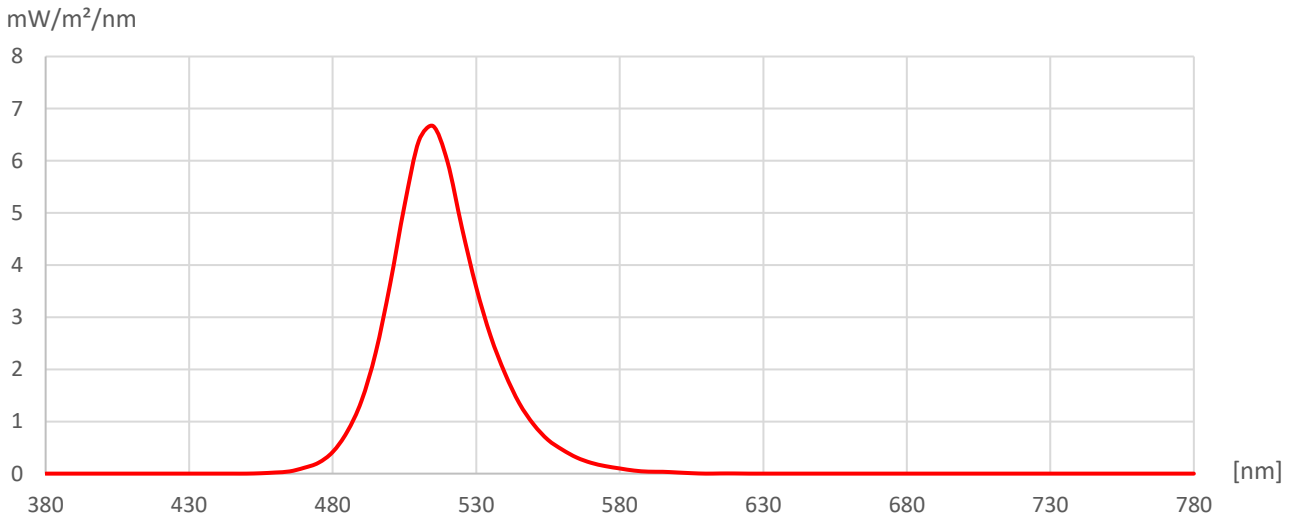


Measurement Protocol



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 Model: MOD-RGB (Green)

Measurement file: MOD-RGB.CSV
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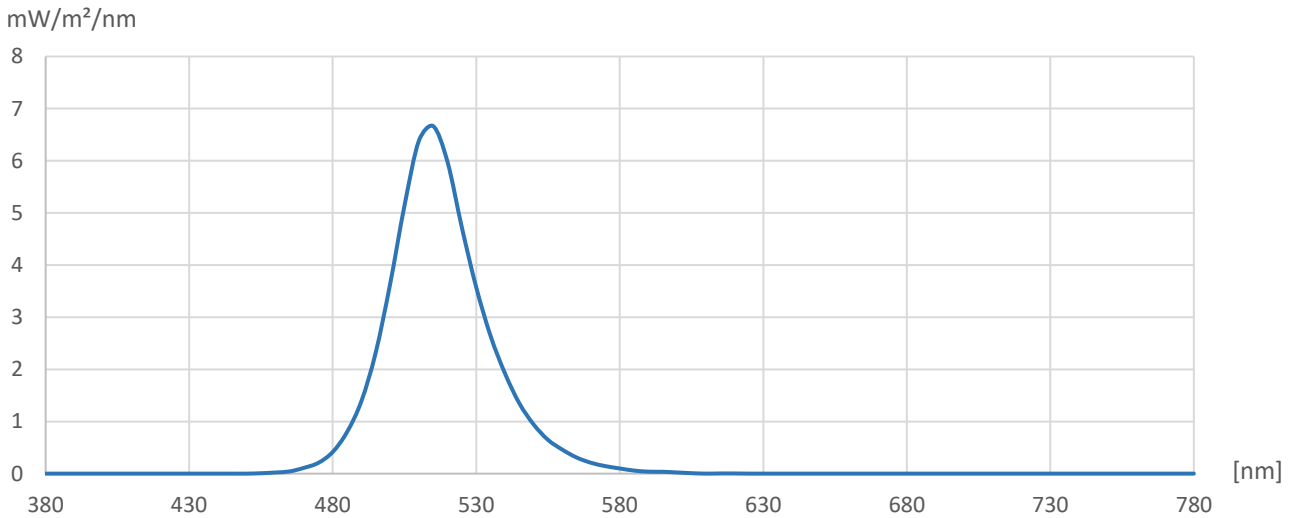


Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.
 Type: RGB LED Sign Modules
 Model: MOD-RGB (Green)

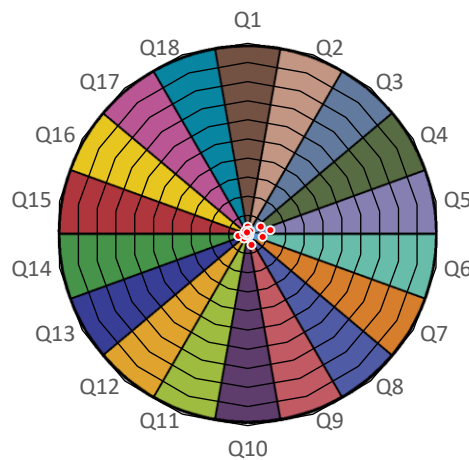
Measurement file: MOD-RGB.CSV
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correlated color temperature (CCT) 8,811 K
 TLCI 2

Reference Spectrum Daylight

	Lightness	Chroma	Hue
R	30	33	5
R/Y	18	21	-1
Y	8	24	-4
Y/G	-6	19	5
G	-6	19	5
G/C	-6	19	5
C	-12	26	-10
C/B	-18	14	-10
B	0	18	4
B/M	24	26	17
M	24	26	17
M/R	24	26	17



Test Colour	Value	Test Colour	Value	Test Colour	Value	
Q1	Dark skin	4	Q7	Orange	1	
Q2	Light skin	2	Q8	Purplish blue	0	
Q3	Blue sky	2	Q9	Moderate red	6	
Q4	Foliage	8	Q10	Purple	0	
Q5	Blue flower	12	Q11	Yellow green	2	
Q6	Bluish green	8	Q12	Orange yellow	3	
				Q13	Blue	1
				Q14	Green	5
				Q15	Red	2
				Q16	Yellow	0
				Q17	Magenta	2
				Q18	Cyan	1