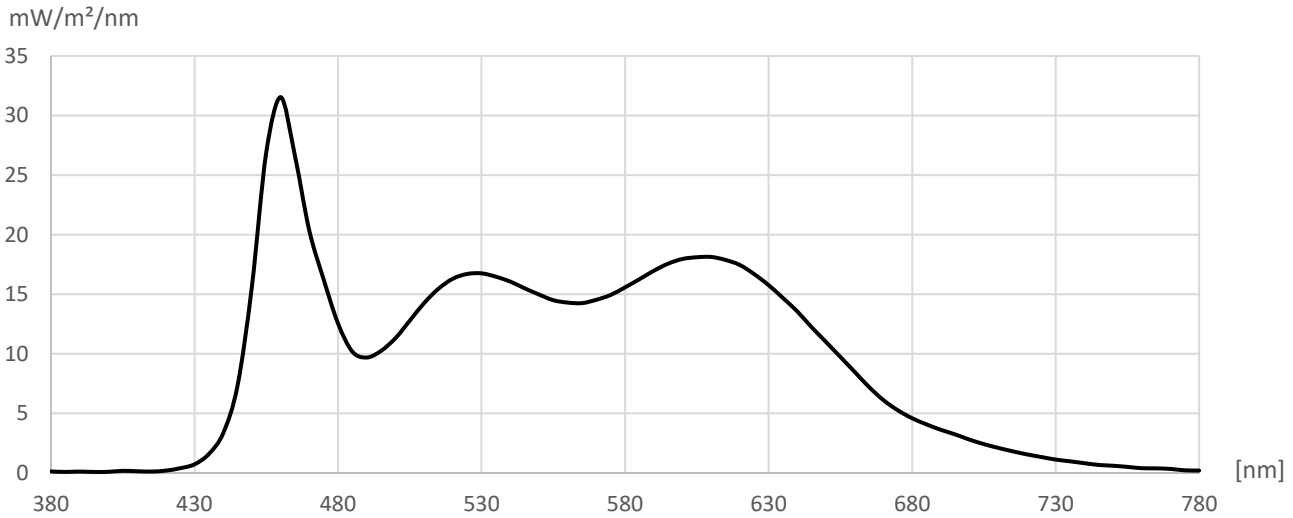


Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.
 Type: ClickBright™ Tunable White LED Light Bar
 Model: LB-TW3050K

Measurement file: LB-TW3050K.CSV
 Date of measurement: 13.08.2024
 Time of measurement: 12:13:41



R1 = 96.5	Ra = 91.5	Illuminance	1,131.19 lx	CIE1931
R2 = 96.4	Re = 89.4	Ee	3.722 W/m ²	x = 0.3485
R3 = 95.4	GAI = 84.8	LER	303.9 lm/W	y = 0.3567
R4 = 88.3				
R5 = 92.1	TLCI = 90.0	Correlated Color Temperature (CCT)	4,890 K	CIE1976
R6 = 93.4		Duv	0.0012	u' = 0.2117
R7 = 86.4	PPFD			v' = 0.4877
R8 = 83.1	[μmol/m ² s]	Saturation	11.60 %	
R9 = 68.6	16.83			CIE1960
R10 = 95.2		Dominant wavelength	572 nm	u = 0.2117
R11 = 94.8		Peak wavelength	459 nm	v = 0.3251
R12 = 63.5				
R13 = 97.1		Flicker frequency	% < 1.0	TM30
R14 = 98.1		Percent Flicker	< 1.0	Rf = 82.4
R15 = 91.5		Flicker index	% < 1.0	Rg = 94.0

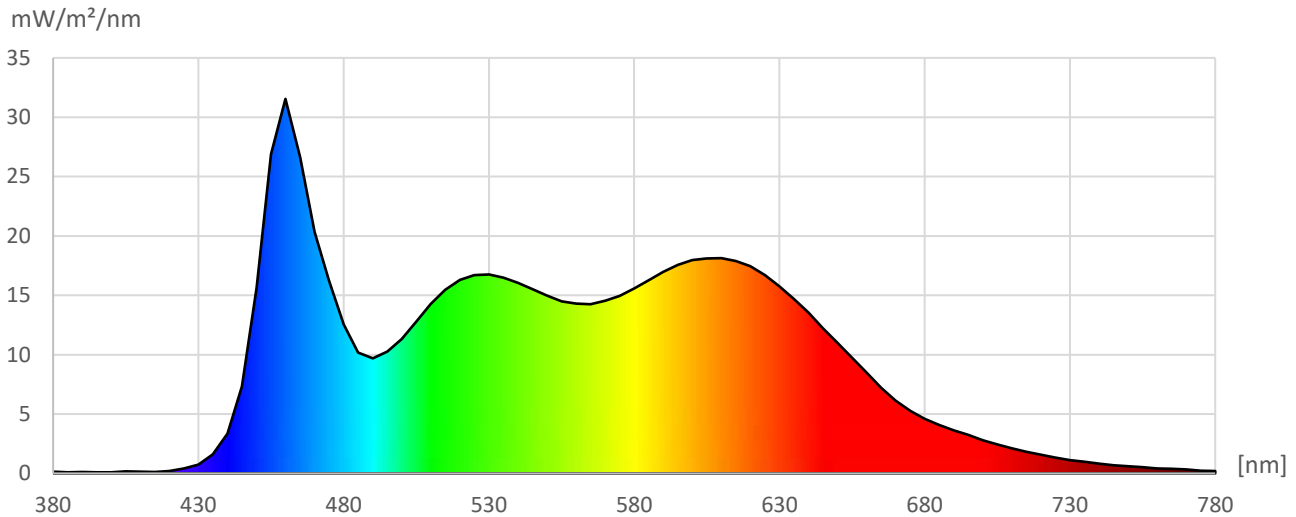
[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm
380	0.13	440	3.34	500	11.32	560	14.30	620	17.46	680	4.60	740	0.83
385	0.09	445	7.33	505	12.78	565	14.26	625	16.69	685	4.08	745	0.68
390	0.12	450	15.64	510	14.26	570	14.54	630	15.77	690	3.63	750	0.61
395	0.09	455	26.91	515	15.47	575	14.94	635	14.69	695	3.24	755	0.51
400	0.10	460	31.55	520	16.30	580	15.58	640	13.56	700	2.80	760	0.40
405	0.18	465	26.62	525	16.71	585	16.26	645	12.23	705	2.43	765	0.39
410	0.15	470	20.34	530	16.76	590	16.97	650	11.00	710	2.11	770	0.34
415	0.12	475	16.25	535	16.48	595	17.57	655	9.74	715	1.82	775	0.23
420	0.20	480	12.55	540	16.06	600	17.96	660	8.49	720	1.56	780	0.21
425	0.40	485	10.19	545	15.50	605	18.11	665	7.22	725	1.34		
430	0.73	490	9.69	550	14.98	610	18.13	670	6.12	730	1.13		
435	1.60	495	10.25	555	14.50	615	17.88	675	5.27	735	0.98		

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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	0.13	535	16.48	690	3.63								
385	0.09	540	16.06	695	3.24								
390	0.12	545	15.50	700	2.80								
395	0.09	550	14.98	705	2.43								
400	0.10	555	14.50	710	2.11								
405	0.18	560	14.30	715	1.82								
410	0.15	565	14.26	720	1.56								
415	0.12	570	14.54	725	1.34								
420	0.20	575	14.94	730	1.13								
425	0.40	580	15.58	735	0.98								
430	0.73	585	16.26	740	0.83								
435	1.60	590	16.97	745	0.68								
440	3.34	595	17.57	750	0.61								
445	7.33	600	17.96	755	0.51								
450	15.64	605	18.11	760	0.40								
455	26.91	610	18.13	765	0.39								
460	31.55	615	17.88	770	0.34								
465	26.62	620	17.46	775	0.23								
470	20.34	625	16.69	780	0.21								
475	16.25	630	15.77										
480	12.55	635	14.69										
485	10.19	640	13.56										
490	9.69	645	12.23										
495	10.25	650	11.00										
500	11.32	655	9.74										
505	12.78	660	8.49										
510	14.26	665	7.22										
515	15.47	670	6.12										
520	16.30	675	5.27										
525	16.71	680	4.60										
530	16.76	685	4.08										

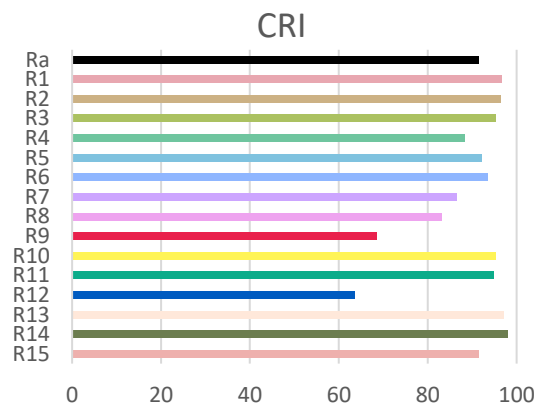
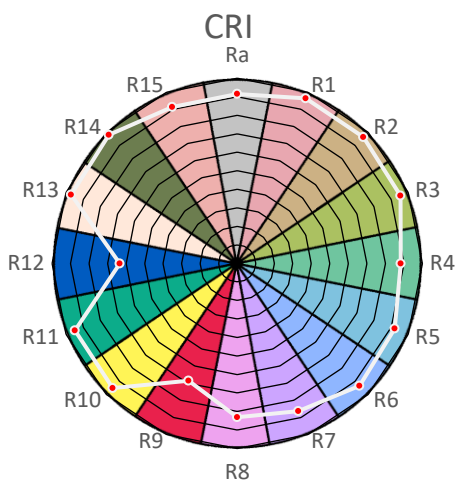
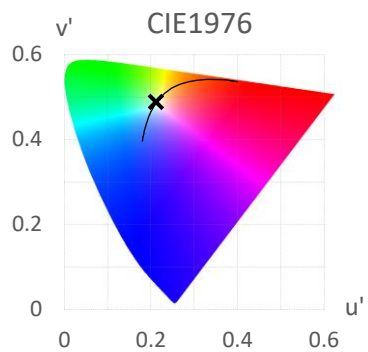
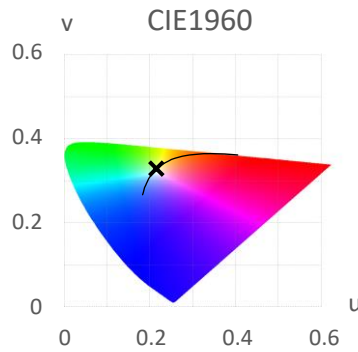
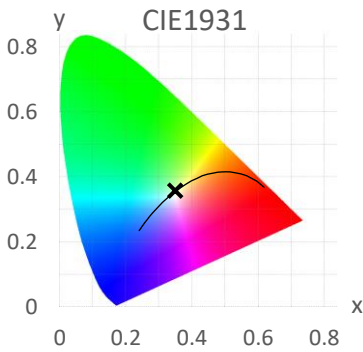
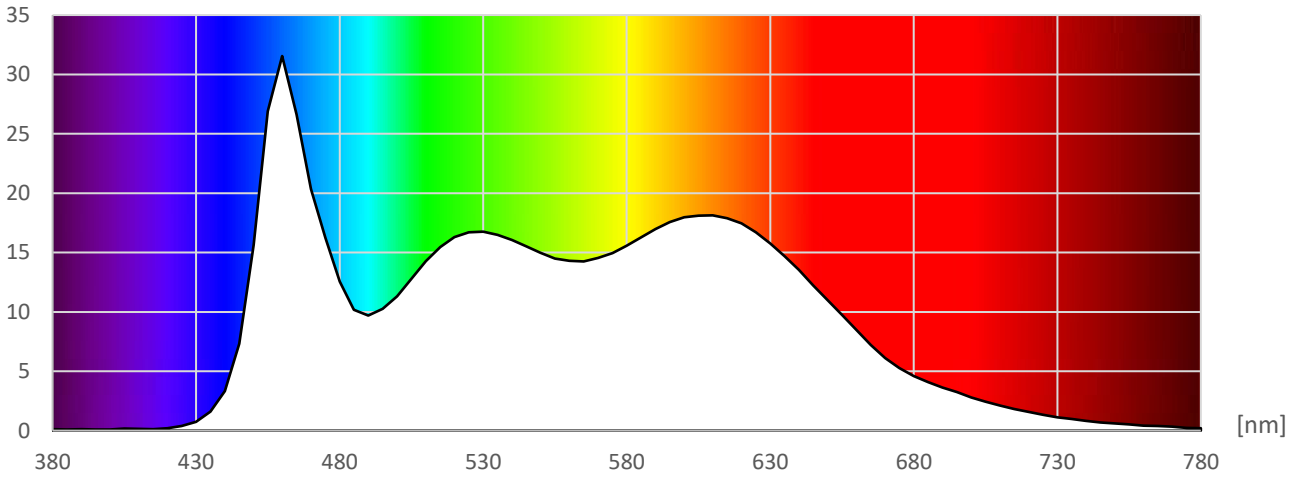
Measurement Protocol



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mW/m²/nm

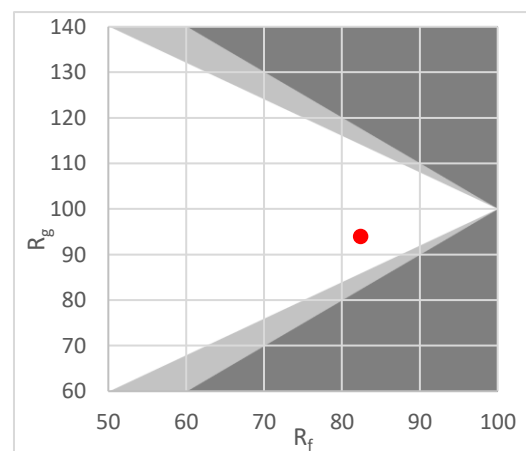
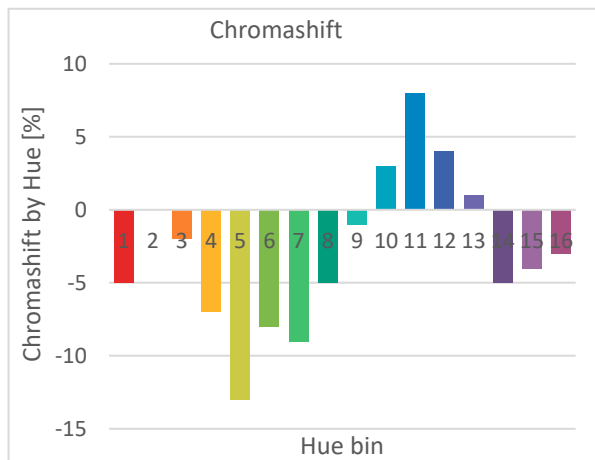
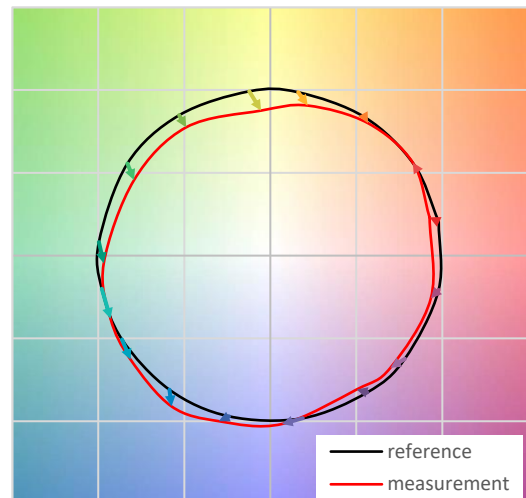
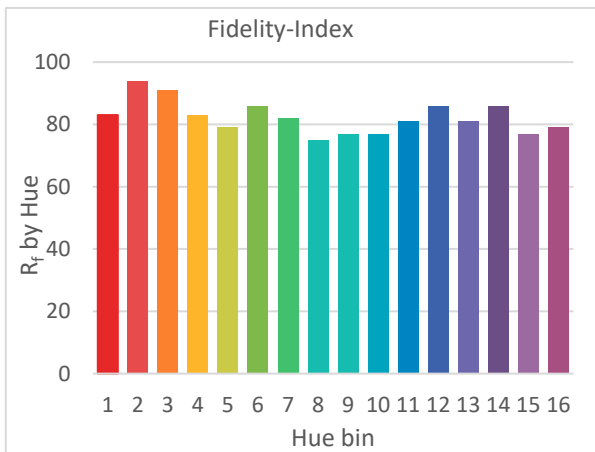
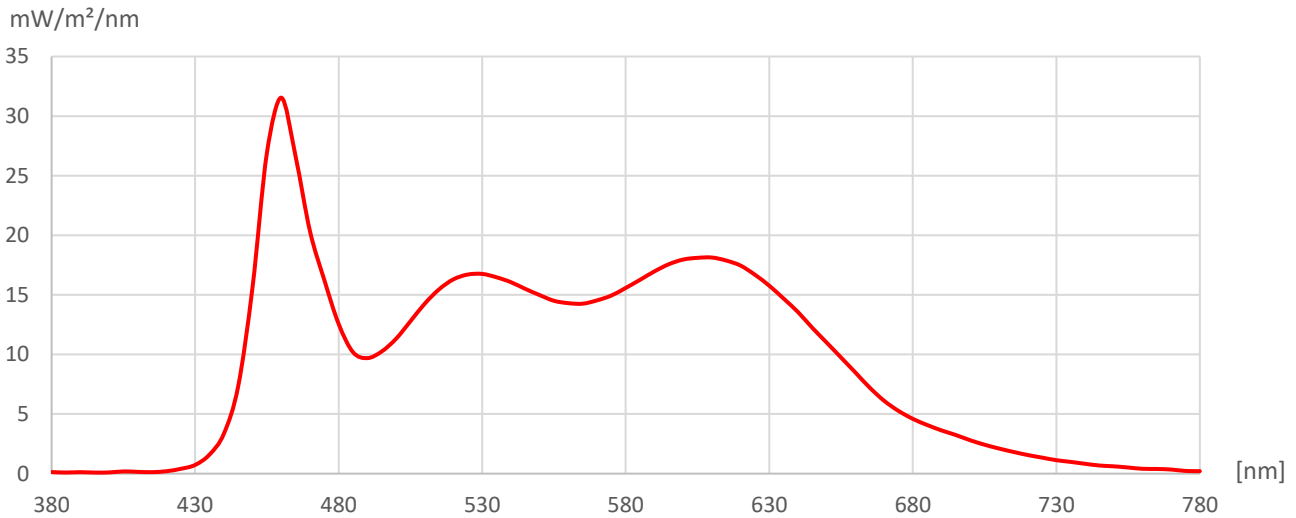


Measurement Protocol



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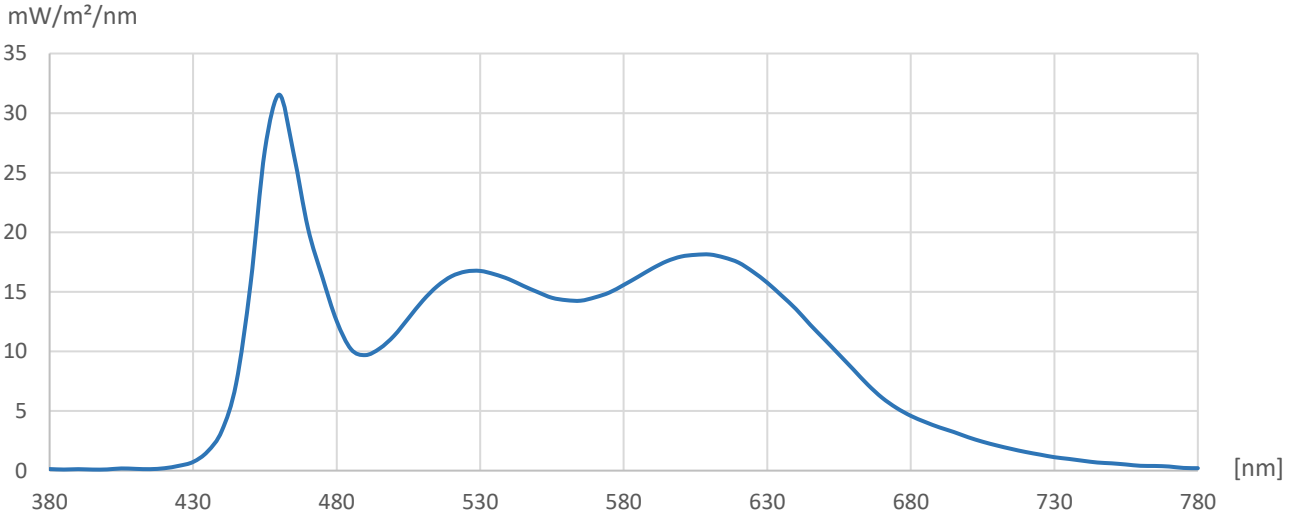


Measurement Protocol



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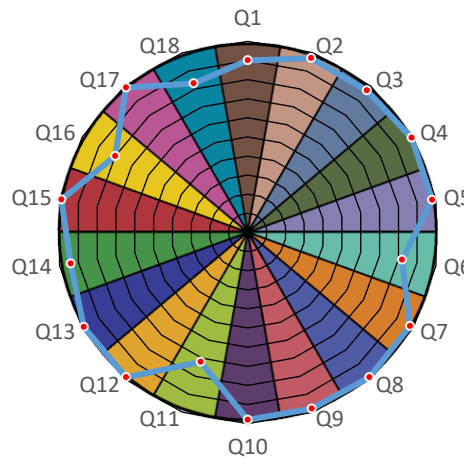
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correlated color temperature (CCT) 4,890 K
 TLCI 90

Reference Spectrum Plank-Daylight Mix

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



Test Colour	Value	Test Colour	Value	Test Colour	Value
Q1 Dark skin	90	Q7 Orange	98	Q13 Blue	99
Q2 Light skin	97	Q8 Purplish blue	99	Q14 Green	94
Q3 Blue sky	97	Q9 Moderate red	98	Q15 Red	99
Q4 Foliage	99	Q10 Purple	98	Q16 Yellow	80
Q5 Blue flower	98	Q11 Yellow green	72	Q17 Magenta	99
Q6 Bluish green	82	Q12 Orange yellow	99	Q18 Cyan	83