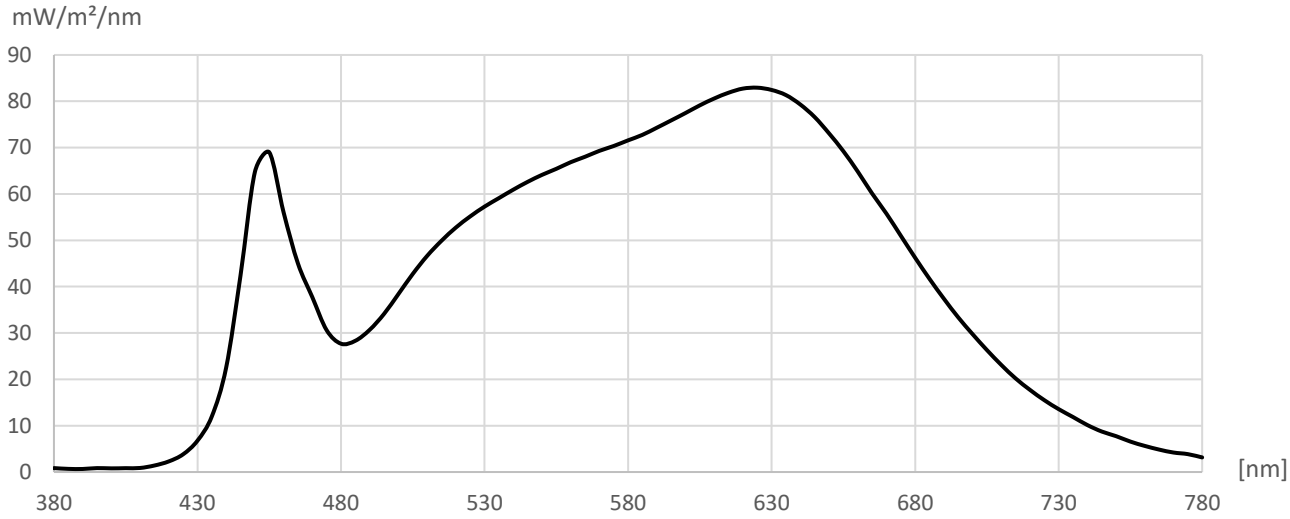
Measurement Protocol

FLEXFIRE

Manufacturer:	Flexfire LEDs, Inc.	Measurement file:	UB-IS-35K90C.CSV
Type:	UltraBright™ Industrial Series LED Strip Light	Date of measurement:	08.05.2023
Model:	UB-IS-35K90C	Time of measurement:	12:00:12



R1	= 94.8	Ra	= 94.1	Illuminance	4,701.60 lx	CIE1931	
R2	= 96.7	Re	= 91.4	Ee	16.475 W/m²	x	= 0.4031
R3	= 96.2	GAI	= 70.5	LER	285.4 lm/W	y	= 0.3875
R4	= 93.8						
R5	= 93.5	TLCI	= 95.0	Correlated Color Temperature (CCT)	3,523 K	CIE1976	
R6	= 93.9			Duv	-0.0009	u'	= 0.2356
R7	= 95.1	PPFD				v'	= 0.5096
R8	= 89.0	[µmol/m²s]		Saturation	37.30 %		
R9	= 73.8	74.54				CIE1960	
R10	= 90.4			Dominant wavelength	580 nm	u	= 0.2356
R11	= 93.4			Peak wavelength	625 nm	v	= 0.3397
R12	= 73.9						
R13	= 95.5			Flicker frequency	% < 1.0	TM30	
R14	= 97.3			Percent Flicker	< 1.0	Rf	= 90.0
R15	= 93.2			Flicker index	% < 1.0	Rg	= 99.3

[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	0.84	440	22.57	500	38.41	560	66.85	620	82.74	680	46.25	740	10.14
385	0.68	445	42.45	505	42.75	565	68.03	625	82.94	685	41.69	745	8.74
390	0.65	450	64.74	510	46.63	570	69.30	630	82.45	690	37.42	750	7.74
395	0.85	455	69.00	515	49.90	575	70.35	635	81.34	695	33.39	755	6.56
400	0.78	460	56.04	520	52.75	580	71.57	640	79.31	700	29.77	760	5.63
405	0.83	465	45.00	525	55.15	585	72.76	645	76.60	705	26.33	765	4.84
410	0.87	470	37.74	530	57.27	590	74.29	650	73.09	710	23.13	770	4.20
415	1.41	475	30.61	535	59.11	595	75.87	655	69.23	715	20.20	775	3.86
420	2.29	480	27.69	540	60.92	600	77.47	660	64.85	720	17.73	780	3.15
425	3.83	485	28.32	545	62.61	605	79.13	665	60.12	725	15.51		
430	6.77	490	30.69	550	64.12	610	80.60	670	55.76	730	13.57		
435	12.00	495	34.13	555	65.42	615	81.85	675	51.01	735	11.87		

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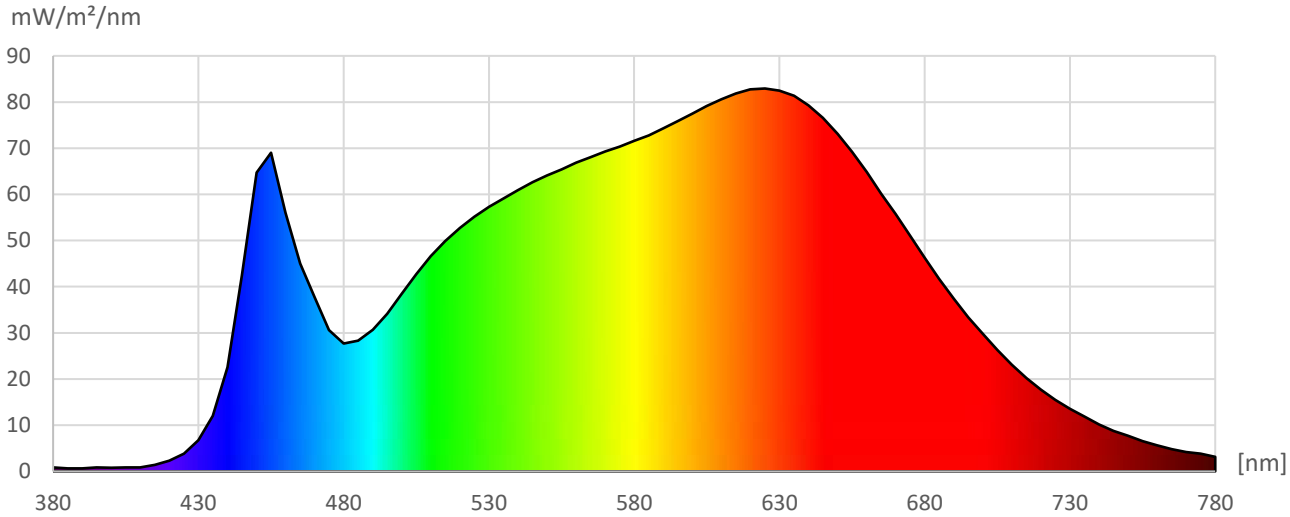

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495	34.13	650	73.09										
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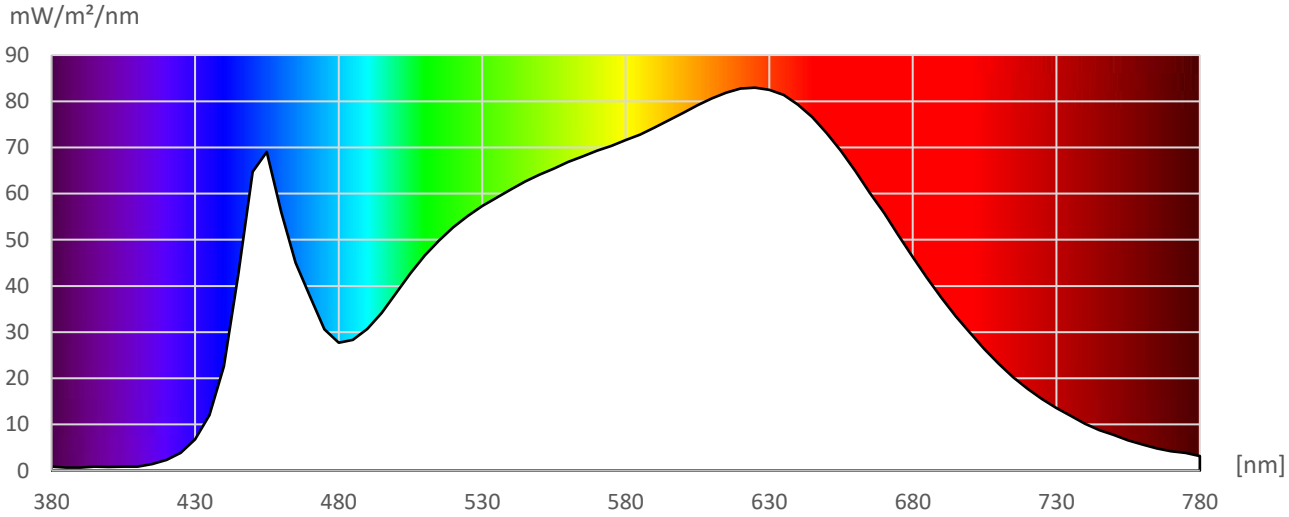

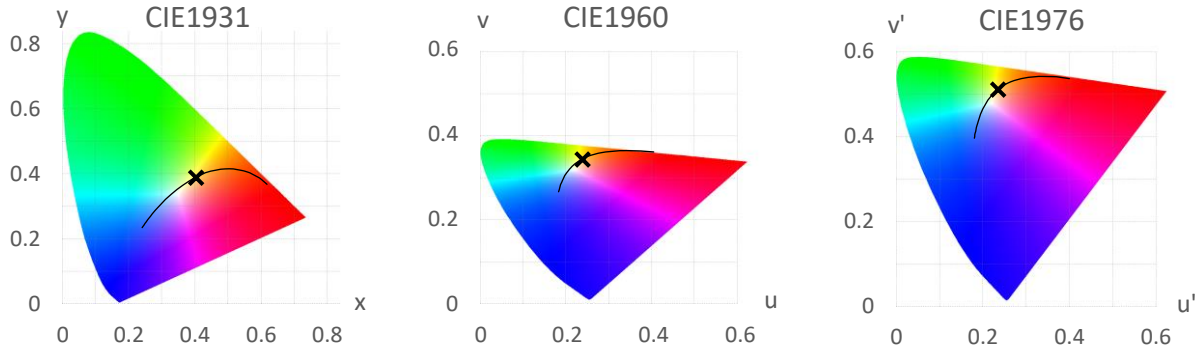

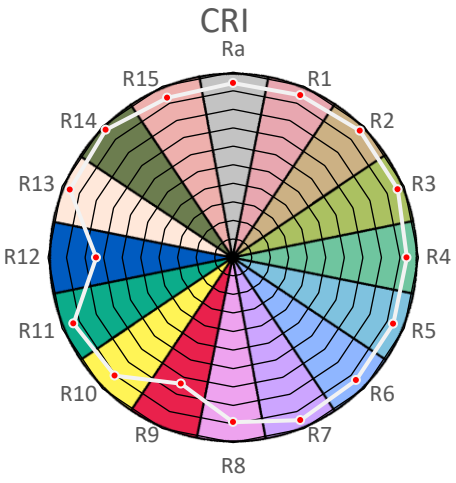

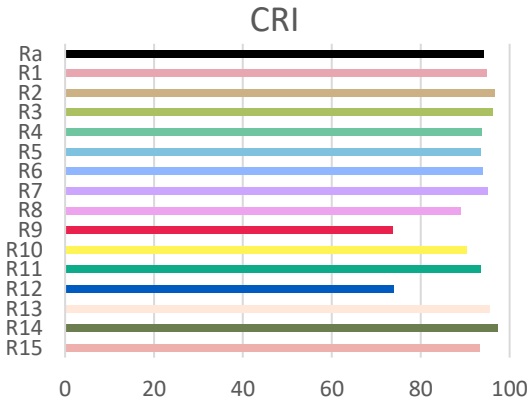

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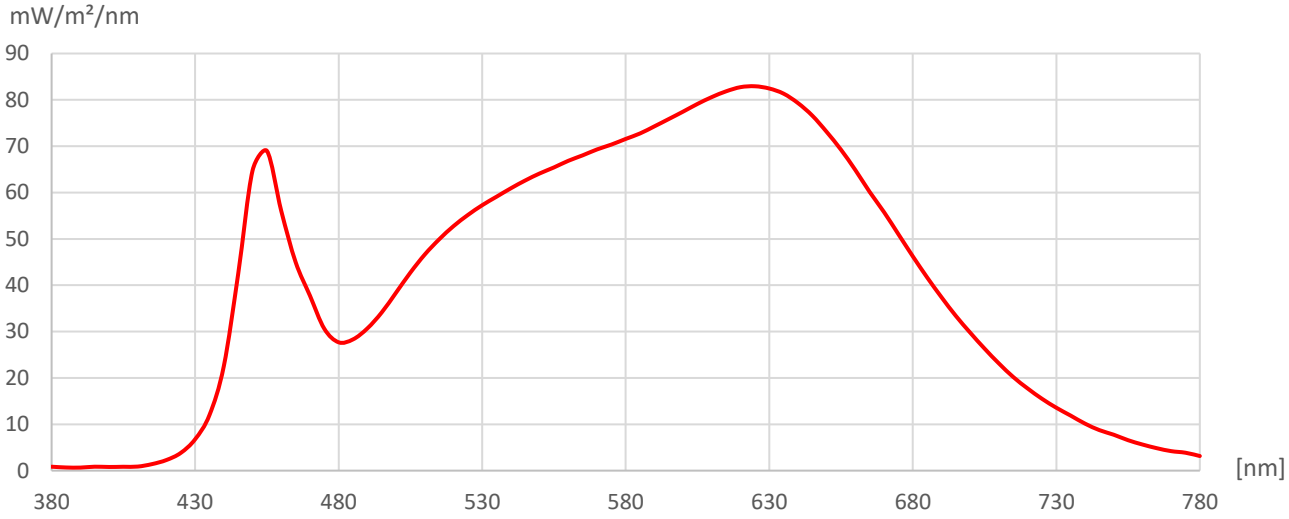

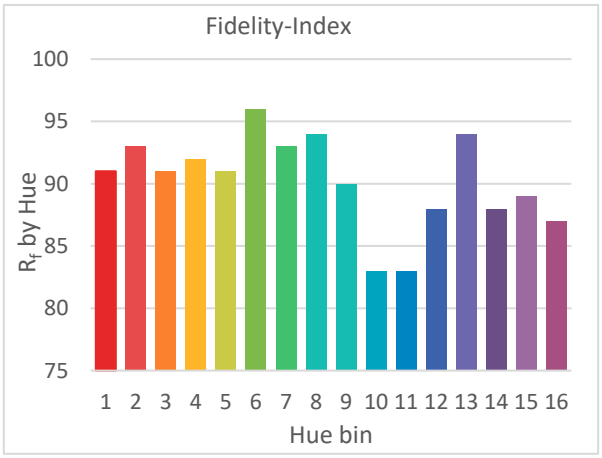

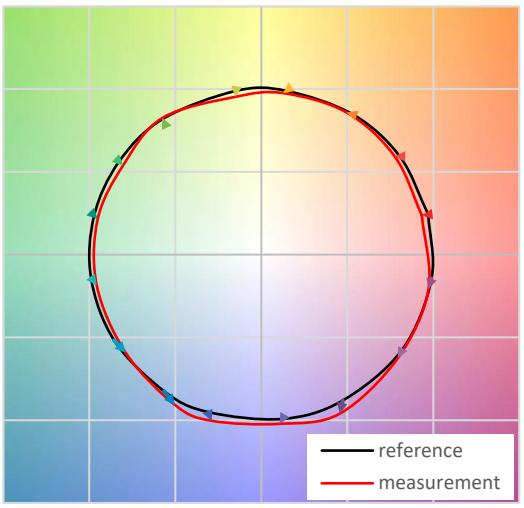

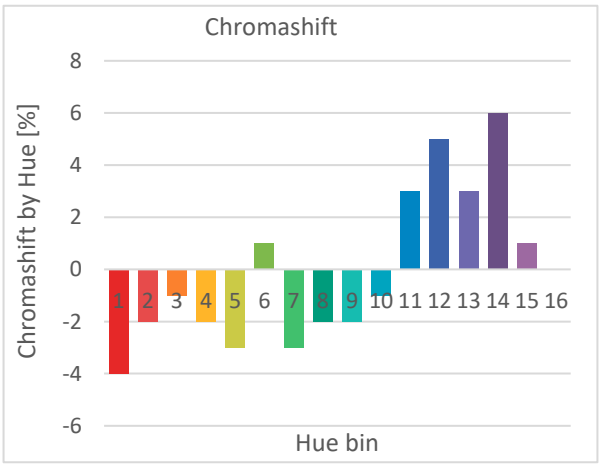

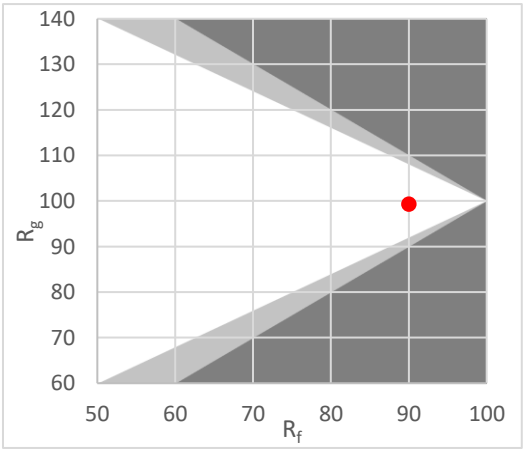

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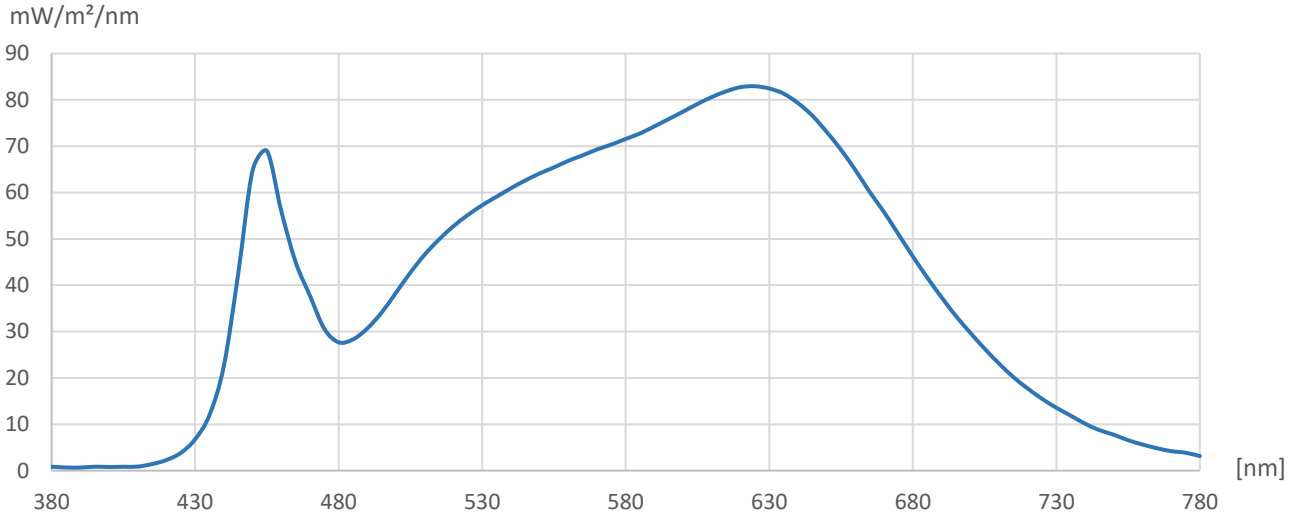
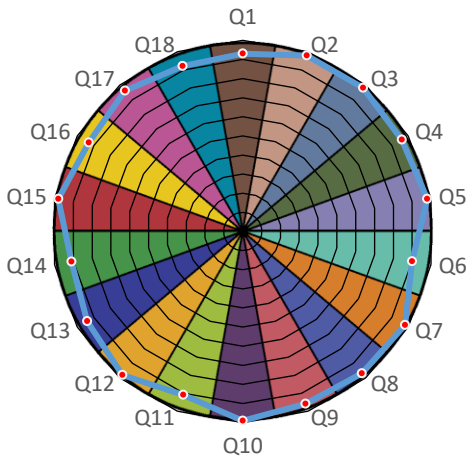


correlated color temperature (CCT)	3,523 K
TLCI	95

Referencec Spectrum	Plank-Daylight Mix

	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	1	0	1
M	1	0	1
M/R	1	0	1



Test Colour		Value	Test Colour		Value	Test Colour		Value
Q1	Dark skin	93	Q7	Orange	98	Q13	Blue	94
Q2	Light skin	98	Q8	Purplish blue	97	Q14	Green	91
Q3	Blue sky	98	Q9	Moderate red	96	Q15	Red	98
Q4	Foliage	96	Q10	Purple	99	Q16	Yellow	93
Q5	Blue flower	98	Q11	Yellow green	91	Q17	Magenta	96
Q6	Bluish green	90	Q12	Orange yellow	98	Q18	Cyan	92