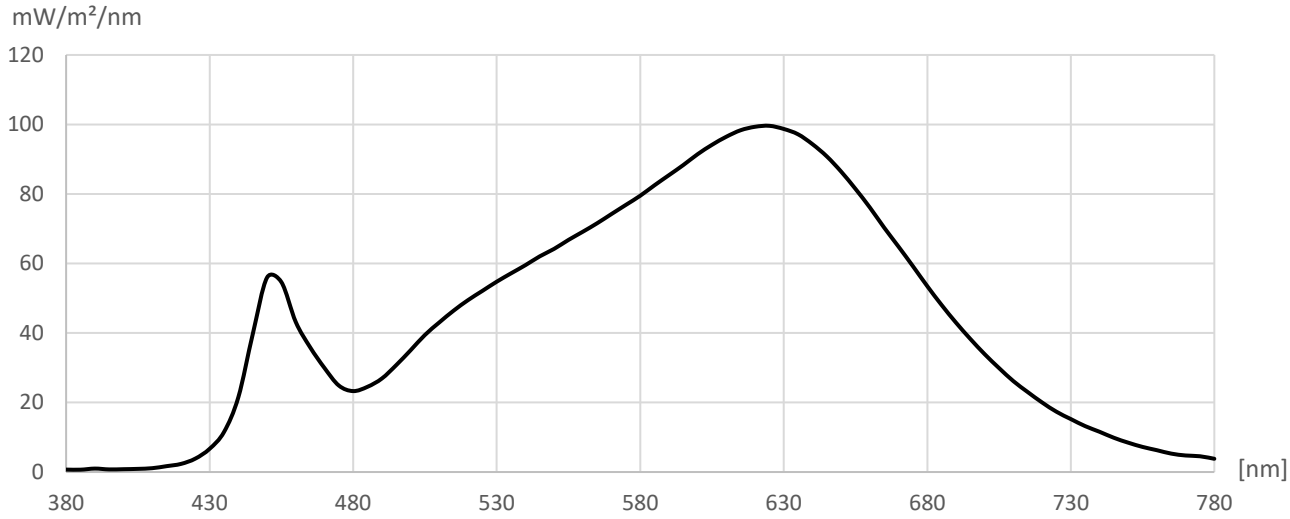
Measurement Protocol

FLEXFIRE

Manufacturer:	Flexfire LEDs, Inc.	Measurement file:	UB-IS-30K90C.CSV
Type:	UltraBright™ Industrial Series LED Strip Light	Date of measurement:	03.07.2023
Model:	UB-IS-30K90C	Time of measurement:	13:10:42



R1	= 93.3	Ra	= 92.8	Illuminance	4,999.19 lx	CIE1931	
R2	= 96.7	Re	= 90.2	Ee	17.613 W/m²	x	= 0.4326
R3	= 97.5	GAI	= 61.4	LER	283.8 lm/W	y	= 0.3962
R4	= 92.0						
R5	= 92.8	TLCI	= 92.0	Correlated Color Temperature (CCT)	2,994 K	CIE1976	
R6	= 95.0			Duv	-0.0026	u'	= 0.2512
R7	= 91.7	PPFD				v'	= 0.5176
R8	= 83.1	[µmol/m²s]		Saturation	48.60 %		
R9	= 63.3	80.50				CIE1960	
R10	= 91.1			Dominant wavelength	583 nm	u	= 0.2512
R11	= 92.0			Peak wavelength	625 nm	v	= 0.3451
R12	= 80.8						
R13	= 94.4			Flicker frequency	% < 1.0	TM30	
R14	= 98.3			Percent Flicker	< 1.0	Rf	= 89.9
R15	= 90.6			Flicker index	% < 1.0	Rg	= 100.4

[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	0.69	440	21.52	500	35.03	560	69.14	620	99.34	680	53.47	740	11.58
385	0.67	445	39.60	505	39.44	565	71.58	625	99.61	685	48.05	745	9.85
390	0.99	450	55.95	510	43.04	570	74.24	630	98.71	690	42.98	750	8.44
395	0.75	455	54.63	515	46.44	575	76.86	635	97.17	695	38.30	755	7.22
400	0.82	460	43.17	520	49.46	580	79.49	640	94.33	700	33.91	760	6.28
405	0.90	465	35.90	525	52.11	585	82.52	645	90.81	705	29.91	765	5.29
410	1.11	470	29.94	530	54.76	590	85.41	650	86.42	710	26.15	770	4.76
415	1.68	475	24.89	535	57.16	595	88.32	655	81.45	715	23.00	775	4.53
420	2.33	480	23.29	540	59.52	600	91.44	660	76.11	720	20.01	780	3.80
425	3.85	485	24.52	545	62.06	605	94.14	665	70.29	725	17.35		
430	6.69	490	26.90	550	64.21	610	96.48	670	64.83	730	15.23		
435	11.51	495	30.76	555	66.77	615	98.35	675	59.22	735	13.21		

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470	29.94	625	99.61	780	3.80								
475	24.89	630	98.71										
480	23.29	635	97.17										
485	24.52	640	94.33										
490	26.90	645	90.81										
495	30.76	650	86.42										
500	35.03	655	81.45										
505	39.44	660	76.11										
510	43.04	665	70.29										
515	46.44	670	64.83										
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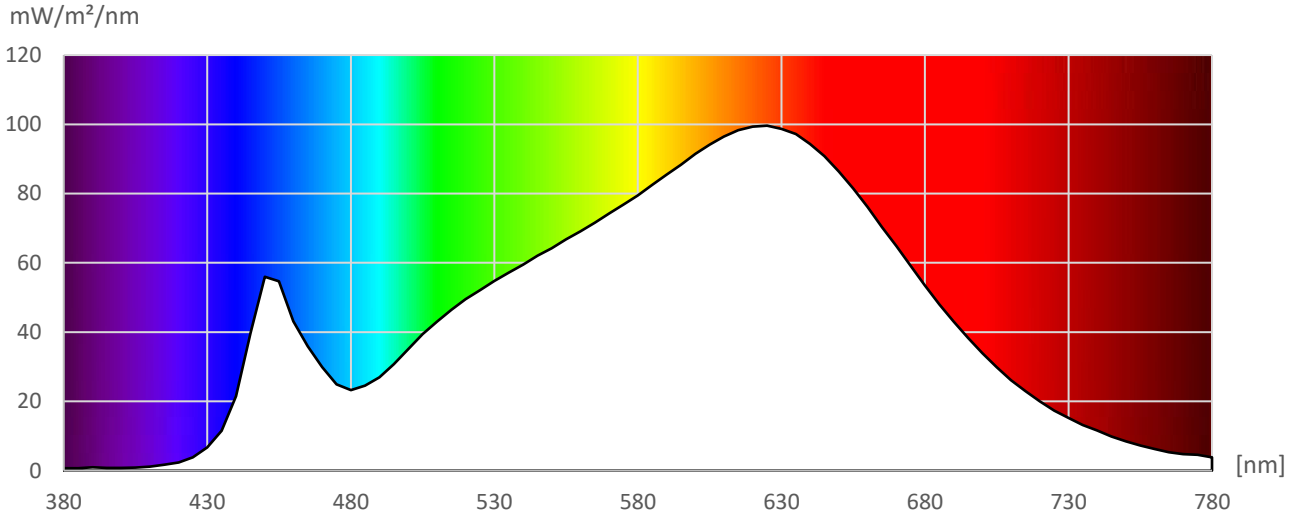

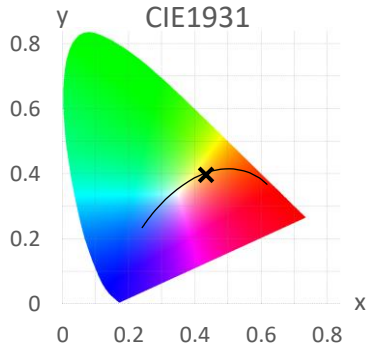

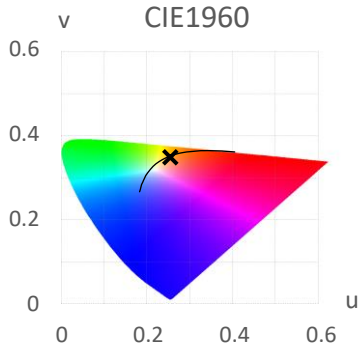

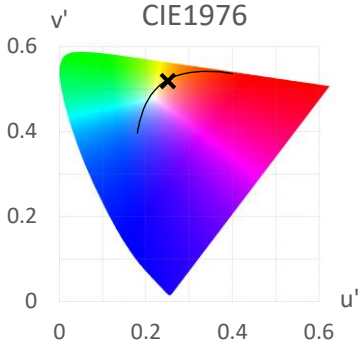

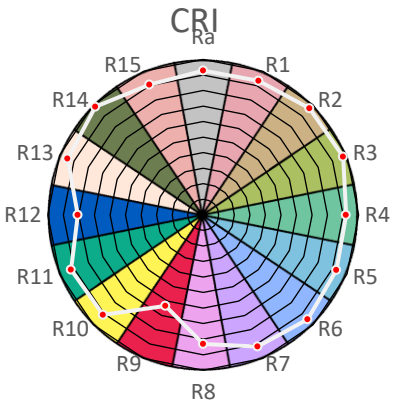

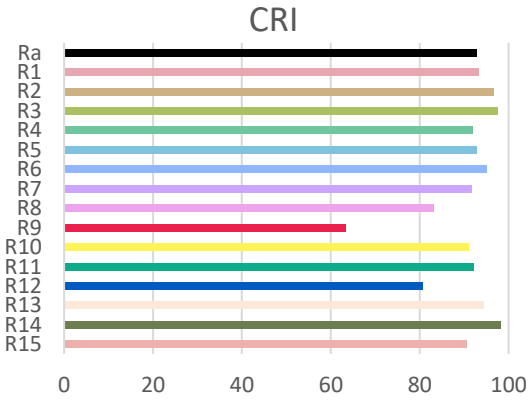

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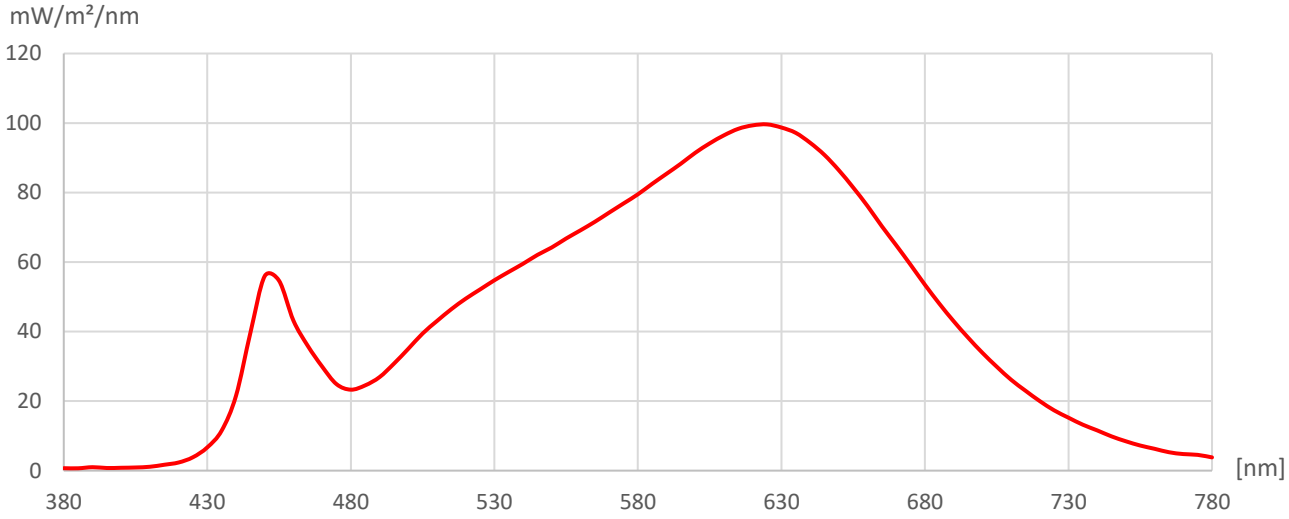

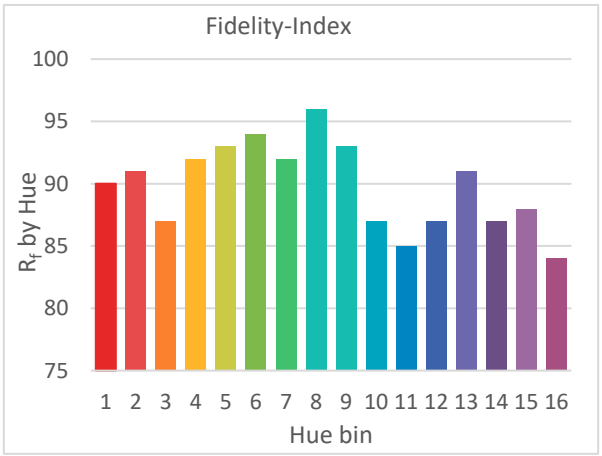

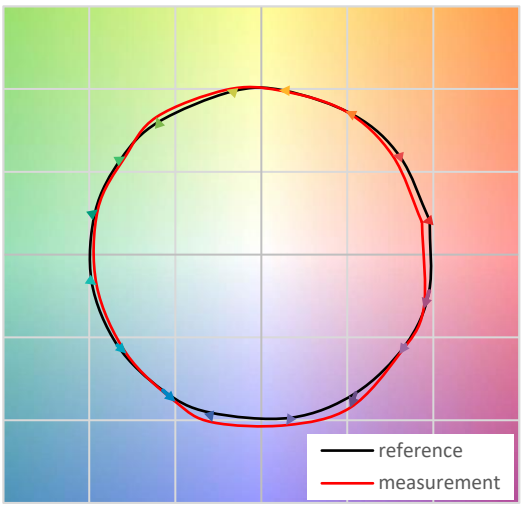

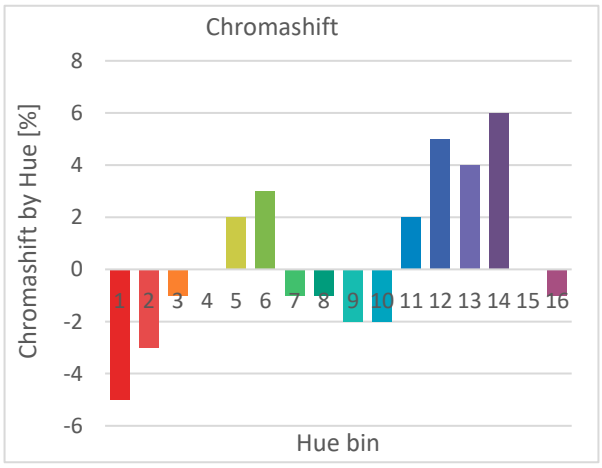

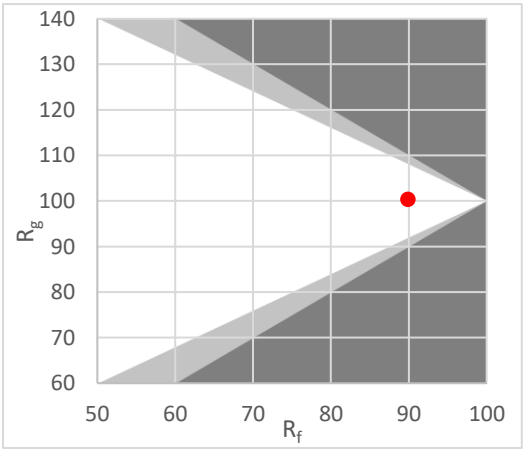

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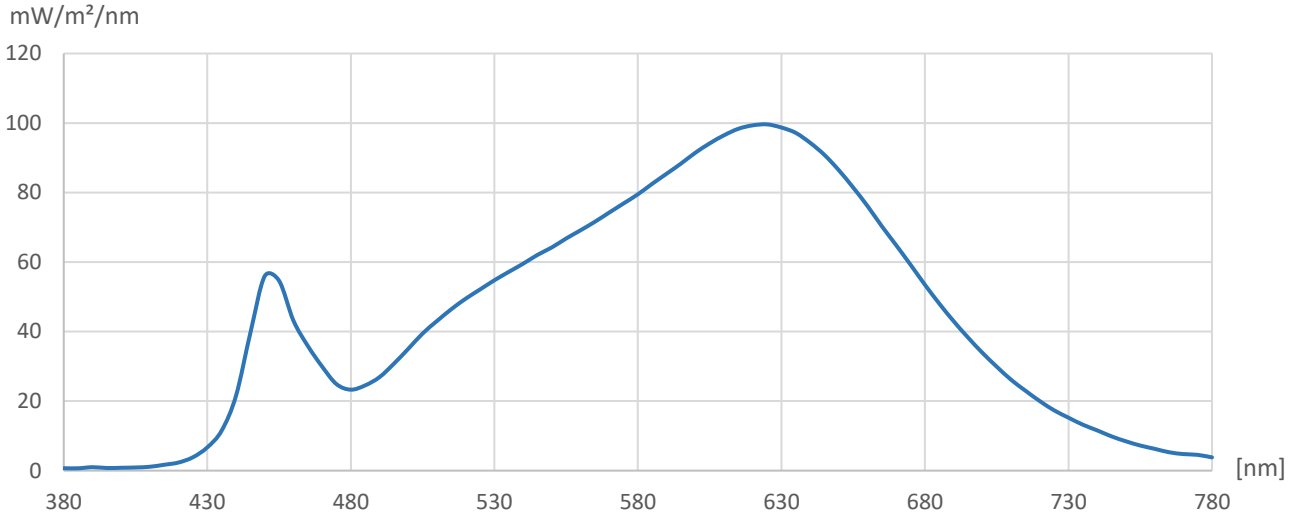
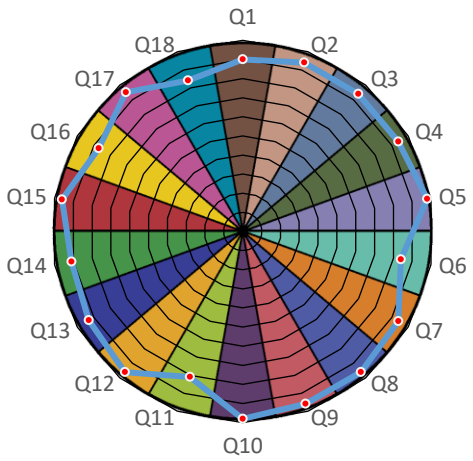


correlated color temperature (CCT)	2,994 K
TLCI	92

Referencec Spectrum	Plank

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



Test Colour		Value	Test Colour		Value	Test Colour		Value
Q1	Dark skin	90	Q7	Orange	94	Q13	Blue	93
Q2	Light skin	94	Q8	Purplish blue	96	Q14	Green	91
Q3	Blue sky	94	Q9	Moderate red	96	Q15	Red	96
Q4	Foliage	94	Q10	Purple	98	Q16	Yellow	87
Q5	Blue flower	98	Q11	Yellow green	81	Q17	Magenta	95
Q6	Bluish green	84	Q12	Orange yellow	96	Q18	Cyan	84