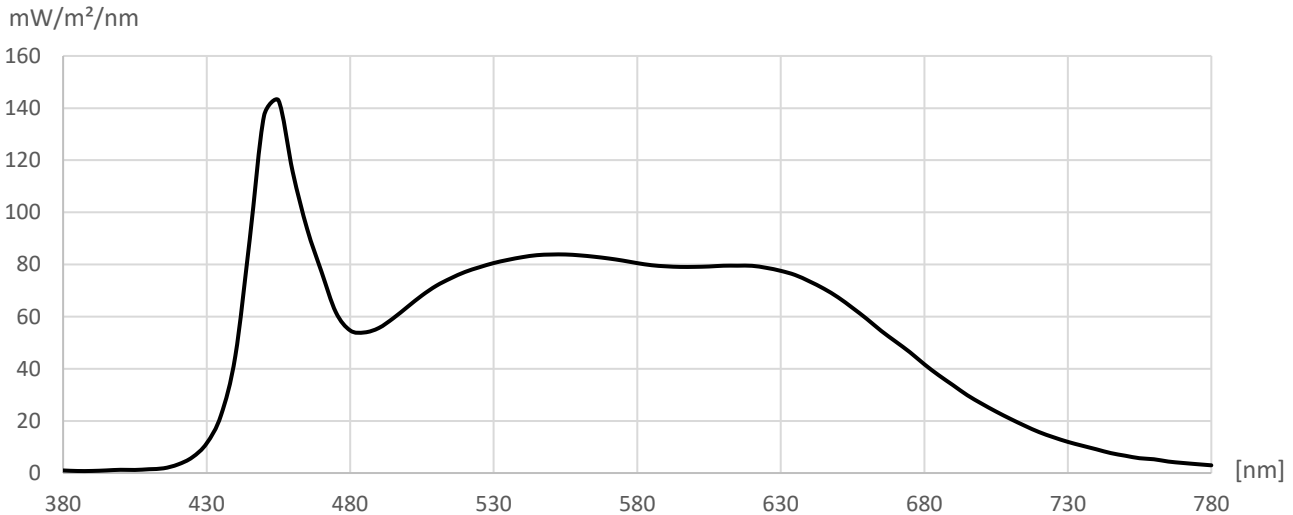


# Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.  
 Type: UltraBright™ Industrial Series LED Strip Light  
 Model: UB-IS-50K90C

Measurement file: UB-IS-50K90C.CSV  
 Date of measurement: 08.05.2023  
 Time of measurement: 12:09:47



R1 = 95.1	Ra = 94.3	Illuminance	5,758.87 lx	CIE1931
R2 = 97.6	Re = 91.9	Ee	20.327 W/m <sup>2</sup>	x = 0.3406
R3 = 96.6	GAI = 89.2	LER	283.3 lm/W	y = 0.3498
R4 = 93.1				
R5 = 93.5	TLCI = 96.0	Correlated Color Temperature (CCT)	5,170 K	CIE1976
R6 = 93.1		Duv	0.0009	u' = 0.2091
R7 = 95.0	PPFD			v' = 0.4831
R8 = 90.7	[μmol/m <sup>2</sup> s]	Saturation	7.10 %	
R9 = 77.8	90.26			CIE1960
R10 = 92.4		Dominant wavelength	568 nm	u = 0.2091
R11 = 93.1		Peak wavelength	453 nm	v = 0.3221
R12 = 71.0				
R13 = 96.6		Flicker frequency	% < 1.0	TM30
R14 = 98.2		Percent Flicker	< 1.0	Rf = 87.5
R15 = 94.2		Flicker index	% < 1.0	Rg = 97.3

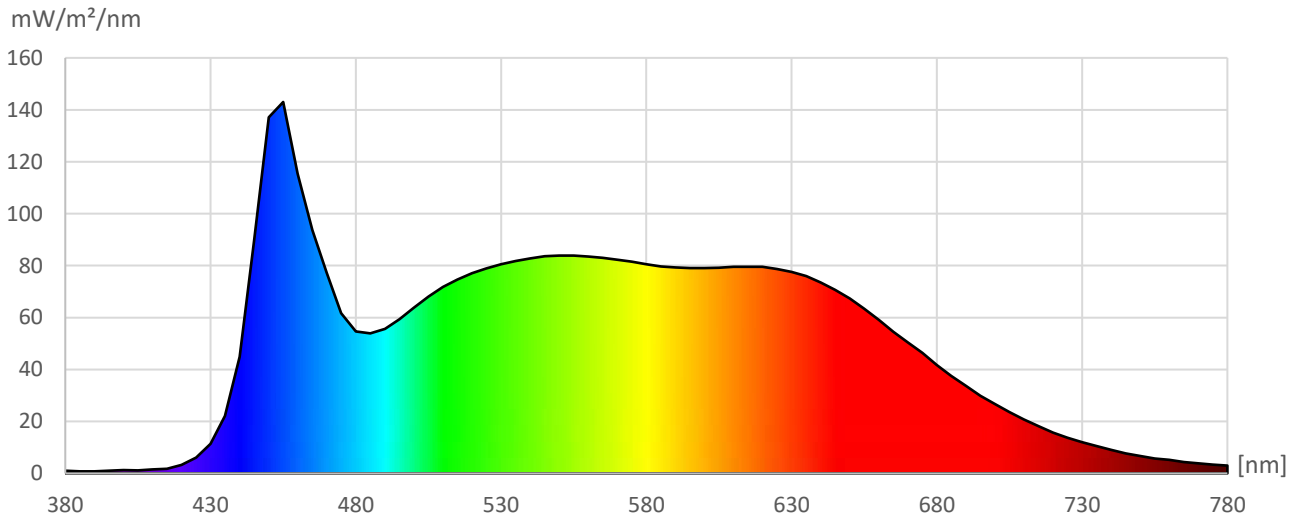
[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm	[nm]	mW/m <sup>2</sup> /nm
380	0.98	440	44.91	500	63.76	560	83.50	620	79.50	680	41.73	740	9.08
385	0.78	445	89.54	505	68.12	565	82.98	625	78.71	685	37.53	745	7.64
390	0.79	450	137.07	510	71.83	570	82.31	630	77.56	690	33.71	750	6.64
395	1.00	455	143.01	515	74.68	575	81.50	635	75.98	695	29.84	755	5.67
400	1.24	460	115.45	520	77.12	580	80.52	640	73.52	700	26.61	760	5.28
405	1.18	465	93.69	525	78.94	585	79.72	645	70.73	705	23.57	765	4.40
410	1.46	470	77.25	530	80.55	590	79.30	650	67.37	710	20.78	770	3.87
415	1.81	475	61.71	535	81.78	595	79.07	655	63.35	715	18.13	775	3.40
420	3.28	480	54.70	540	82.81	600	79.09	660	59.10	720	15.70	780	2.96
425	6.03	485	53.93	545	83.57	605	79.23	665	54.53	725	13.72		
430	11.38	490	55.64	550	83.82	610	79.53	670	50.44	730	11.95		
435	22.15	495	59.37	555	83.84	615	79.54	675	46.34	735	10.49		

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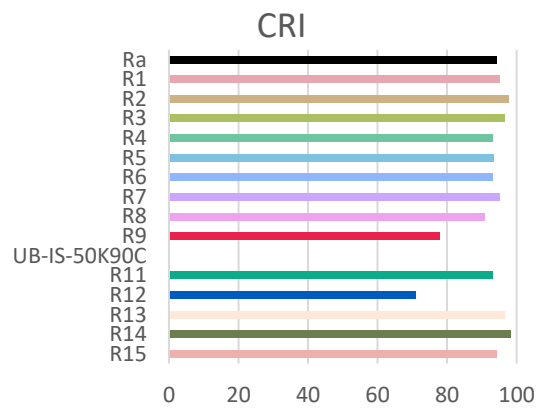
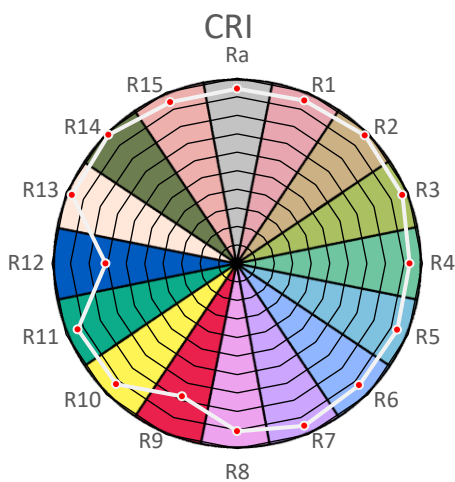
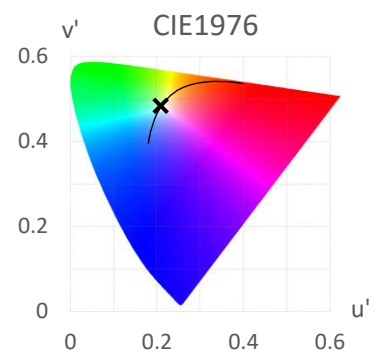
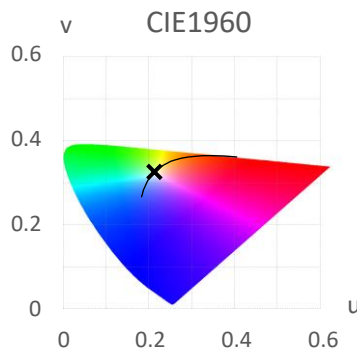
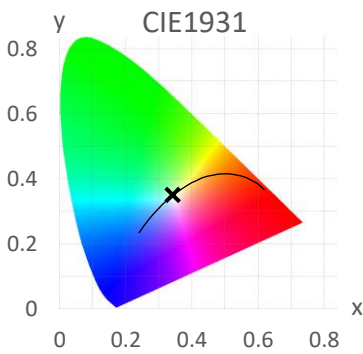
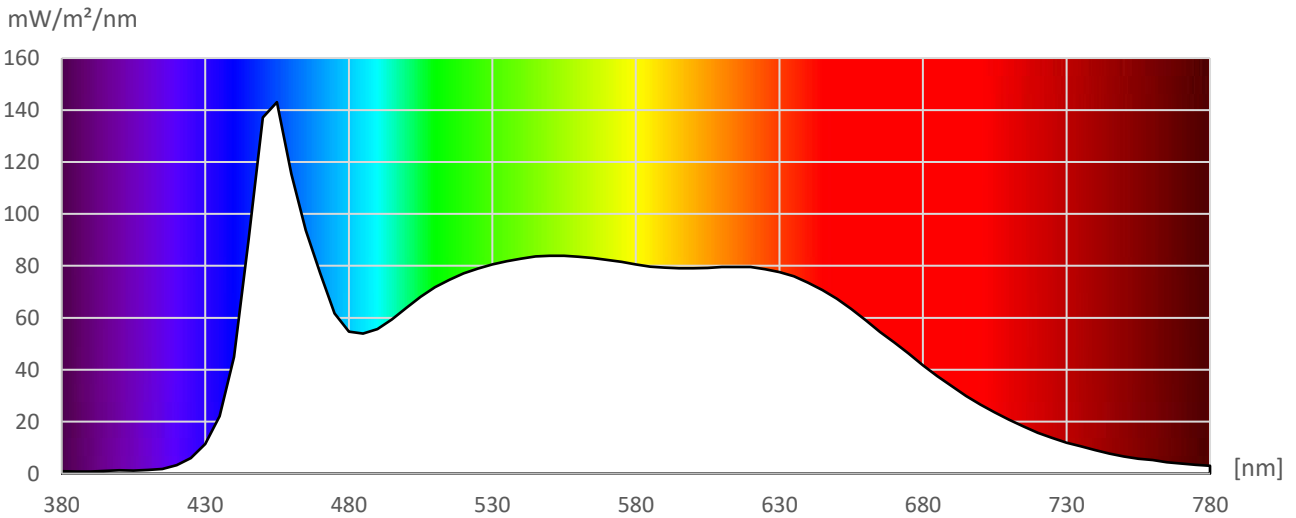
[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm	[nm]	mW/m²/nm
380	0.98	535	81.78	690	33.71								
385	0.78	540	82.81	695	29.84								
390	0.79	545	83.57	700	26.61								
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485	53.93	640	73.52										
490	55.64	645	70.73										
495	59.37	650	67.37										
500	63.76	655	63.35										
505	68.12	660	59.10										
510	71.83	665	54.53										
515	74.68	670	50.44										
520	77.12	675	46.34										
525	78.94	680	41.73										
530	80.55	685	37.53										

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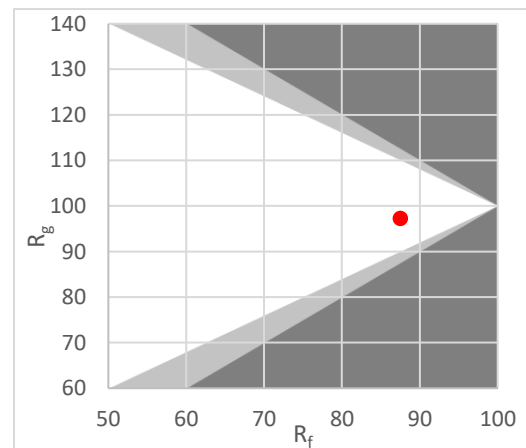
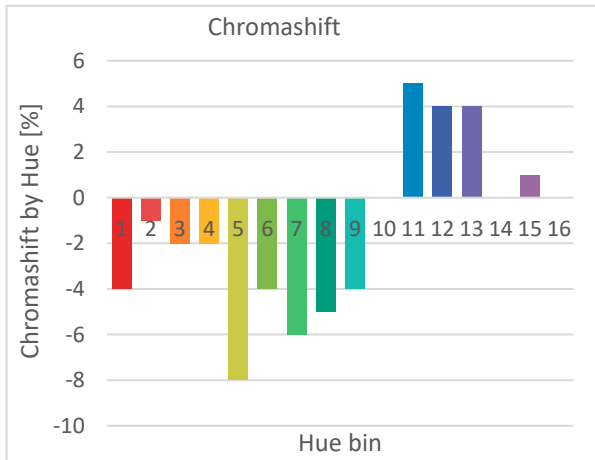
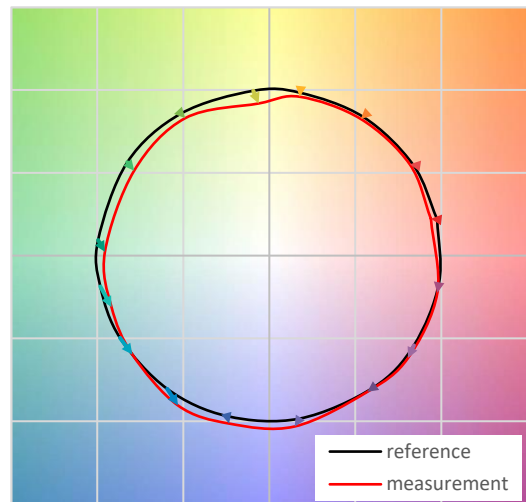
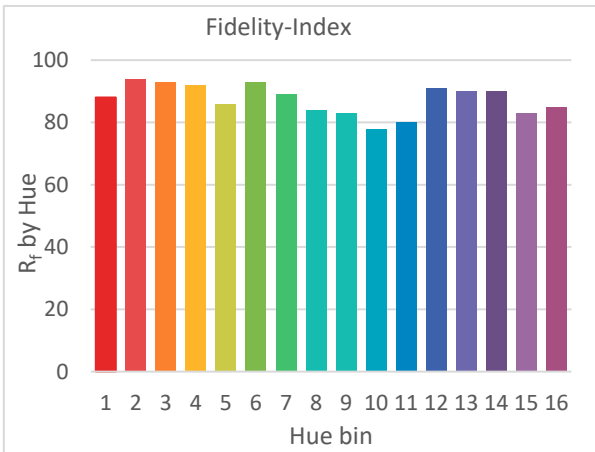
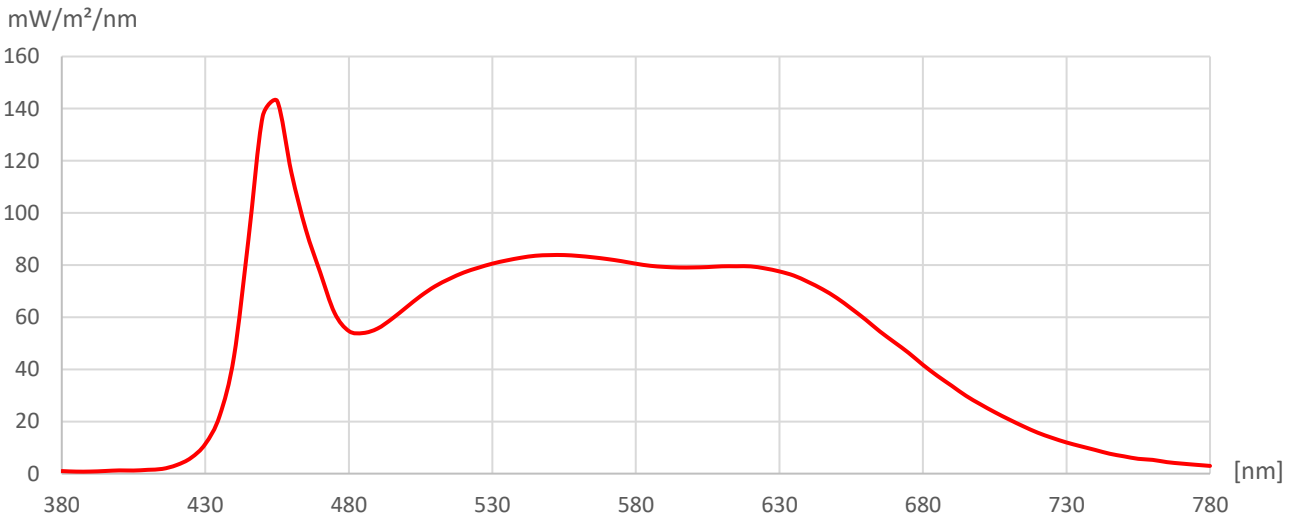


# Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.  
 Type: UltraBright™ Industrial Series LED Strip Light  
 Model: UB-IS-50K90C

Measurement file: UB-IS-50K90C.CSV  
 Date of measurement: 08.05.2023  
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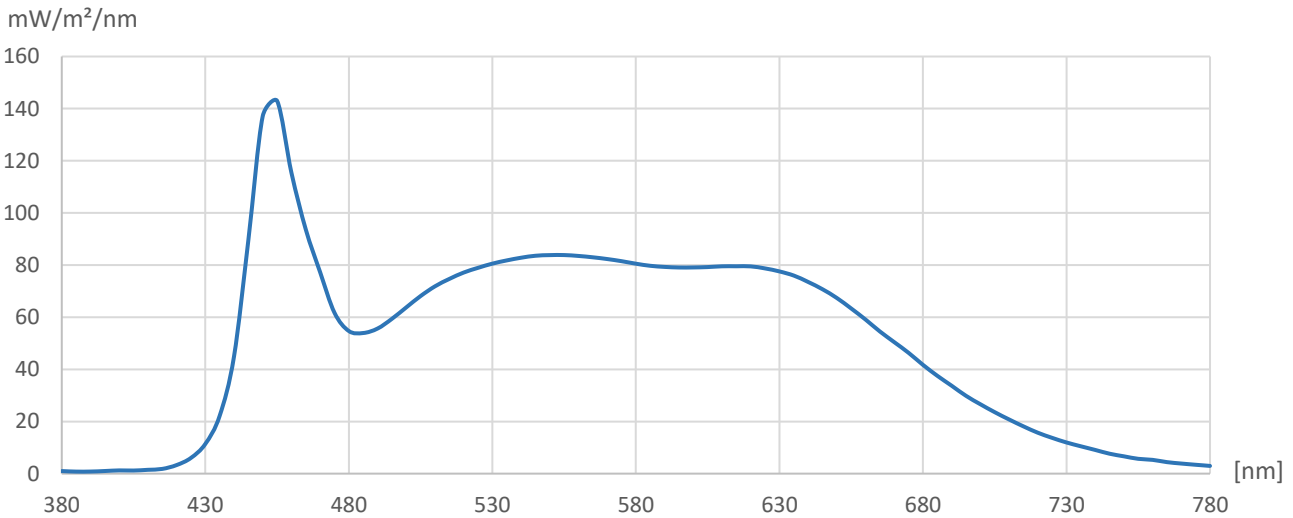


# Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.  
 Type: UltraBright™ Industrial Series LED Strip Light  
 Model: UB-IS-50K90C

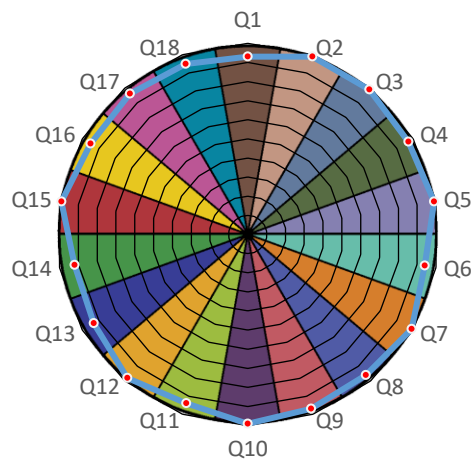
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correlated color temperature (CCT) 5,170 K  
 TLCI 96

Reference Spectrum Daylight

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



Test Colour	Value	Test Colour	Value	Test Colour	Value
Q1 Dark skin	93	Q7 Orange	99	Q13 Blue	93
Q2 Light skin	99	Q8 Purplish blue	96	Q14 Green	92
Q3 Blue sky	99	Q9 Moderate red	97	Q15 Red	99
Q4 Foliage	97	Q10 Purple	99	Q16 Yellow	95
Q5 Blue flower	99	Q11 Yellow green	94	Q17 Magenta	96
Q6 Bluish green	94	Q12 Orange yellow	98	Q18 Cyan	95