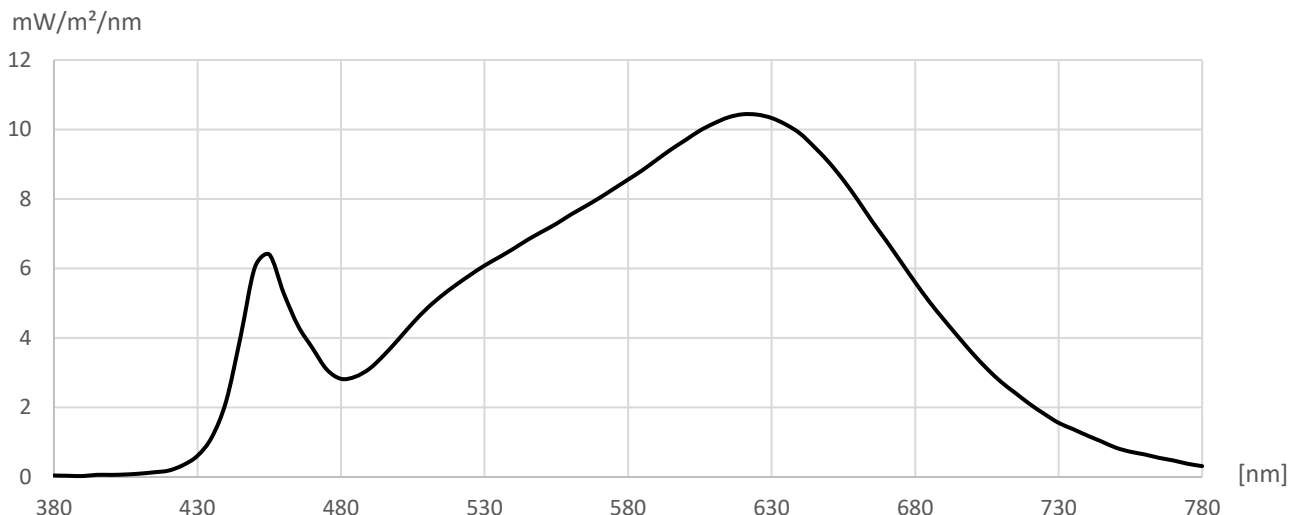


Measurement Protocol



Manufacturer: Flexfire LEDs
 Type: LED Strip Light 100 LM/FT
 Model: VL10-30K

Measurement file: VL10-30K.CSV
 Date of measurement: 28.11.2023
 Time of measurement: 17:08:47



R1 = 93.5	Ra = 93.0	Illuminance	541.80 lx	CIE1931
R2 = 97.1	Re = 90.3	Ee	1.893 W/m ²	x = 0.4259
R3 = 97.9	GAI = 62.7	LER	286.2 lm/W	y = 0.3956
R4 = 91.9				
R5 = 92.8	TLCI = 93.0	Correlated Color Temperature (CCT)	3,103 K	CIE1976
R6 = 95.2		Duv	-0.0018	u' = 0.2471
R7 = 92.0	PPFD			v' = 0.5163
R8 = 83.4	[μmol/m ² s]	Saturation	46.50 %	
R9 = 63.9	8.67			CIE1960
R10 = 91.7		Dominant wavelength	582 nm	u = 0.2471
R11 = 91.9		Peak wavelength	619 nm	v = 0.3442
R12 = 78.9				
R13 = 94.7		Flicker frequency	% < 1.0	TM30
R14 = 98.6		Percent Flicker	< 1.0	Rf = 89.9
R15 = 90.6		Flicker index	% < 1.0	Rg = 99.4

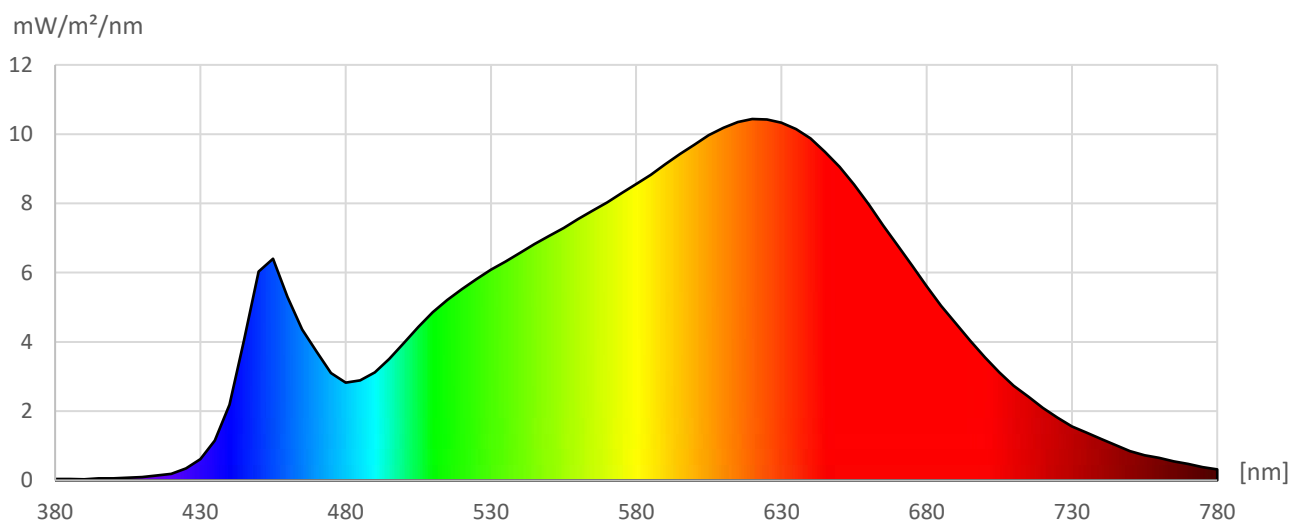
[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm
380	0.04	440	2.19	500	3.96	560	7.55	620	10.44	680	5.60	740	1.19
385	0.04	445	4.03	505	4.43	565	7.78	625	10.43	685	5.04	745	1.02
390	0.03	450	6.04	510	4.85	570	8.03	630	10.33	690	4.53	750	0.84
395	0.06	455	6.40	515	5.21	575	8.29	635	10.14	695	4.04	755	0.73
400	0.06	460	5.30	520	5.52	580	8.56	640	9.88	700	3.56	760	0.65
405	0.07	465	4.36	525	5.81	585	8.83	645	9.49	705	3.12	765	0.55
410	0.10	470	3.72	530	6.08	590	9.13	650	9.05	710	2.73	770	0.48
415	0.14	475	3.10	535	6.32	595	9.43	655	8.54	715	2.41	775	0.38
420	0.19	480	2.83	540	6.56	600	9.70	660	7.97	720	2.10	780	0.31
425	0.34	485	2.89	545	6.82	605	9.97	665	7.36	725	1.82		
430	0.61	490	3.12	550	7.06	610	10.18	670	6.79	730	1.56		
435	1.15	495	3.51	555	7.29	615	10.35	675	6.20	735	1.38		

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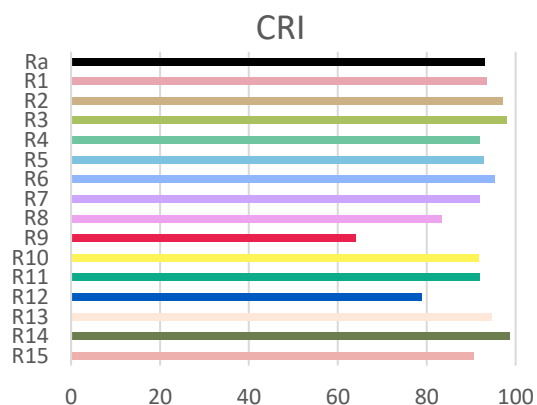
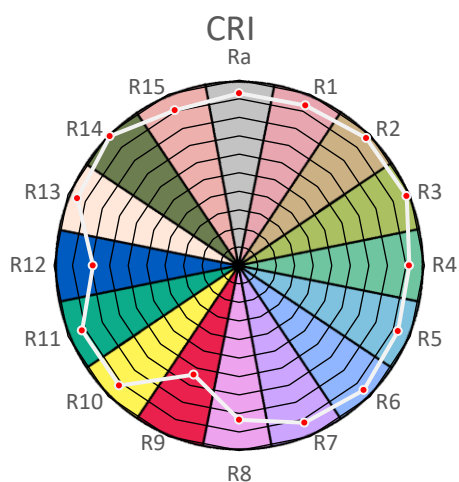
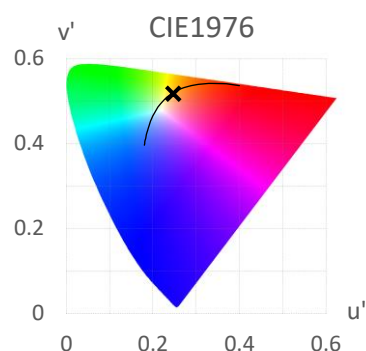
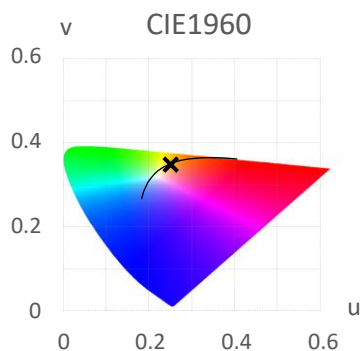
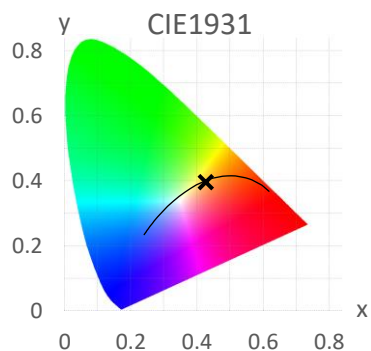
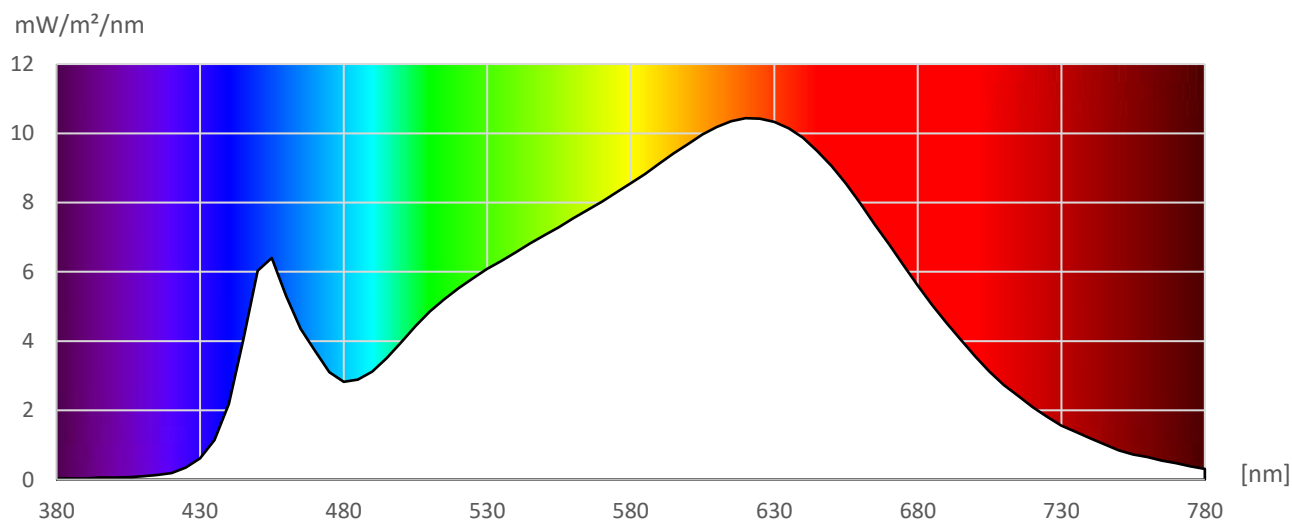
[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm
380	0.04	535	6.32	690	4.53								
385	0.04	540	6.56	695	4.04								
390	0.03	545	6.82	700	3.56								
395	0.06	550	7.06	705	3.12								
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475	3.10	630	10.33										
480	2.83	635	10.14										
485	2.89	640	9.88										
490	3.12	645	9.49										
495	3.51	650	9.05										
500	3.96	655	8.54										
505	4.43	660	7.97										
510	4.85	665	7.36										
515	5.21	670	6.79										
520	5.52	675	6.20										
525	5.81	680	5.60										
530	6.08	685	5.04										

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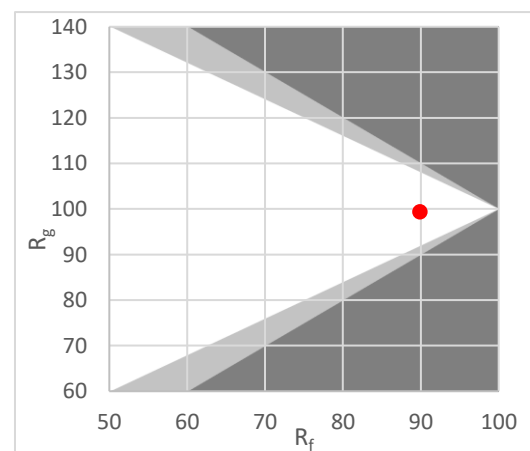
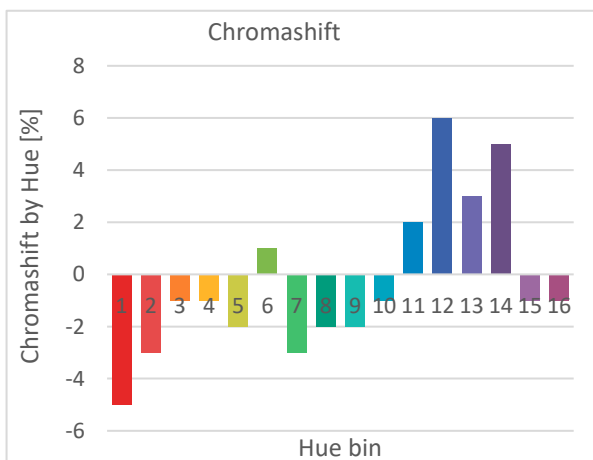
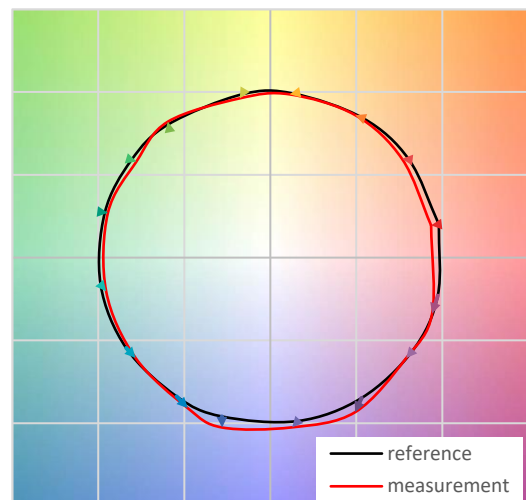
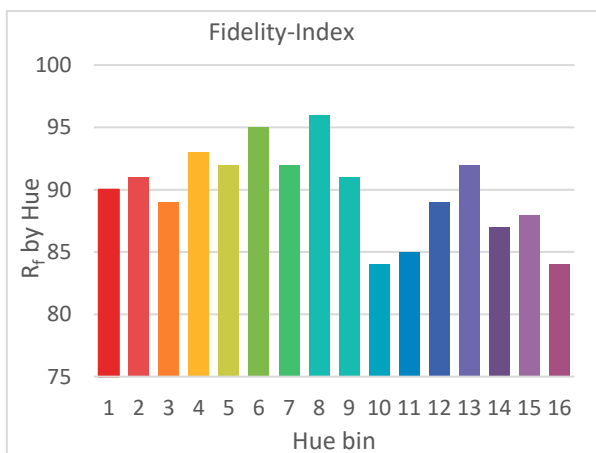
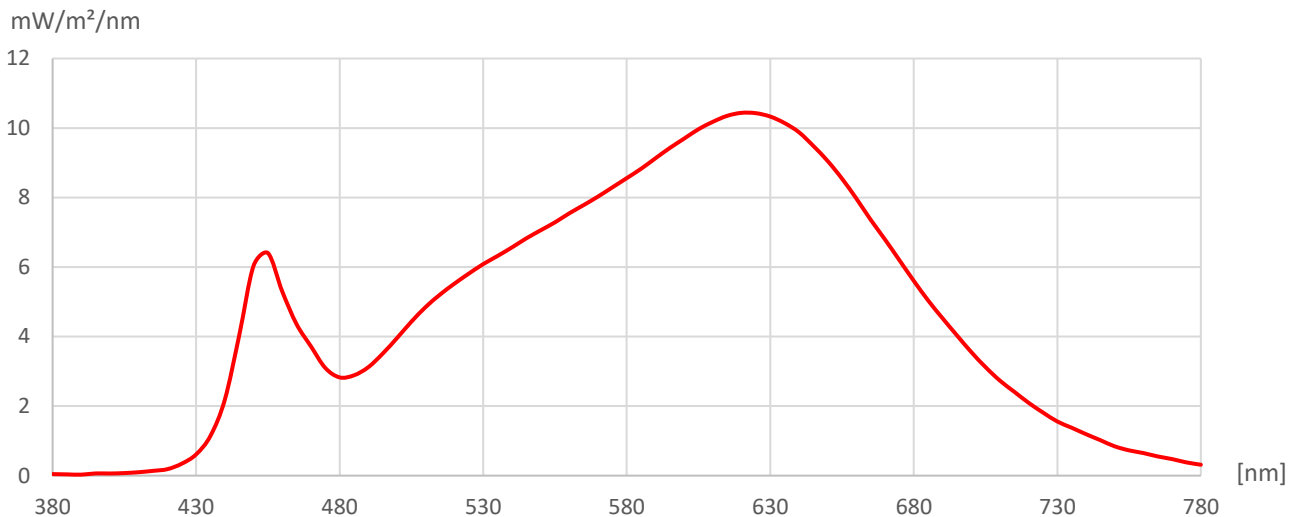


Measurement Protocol



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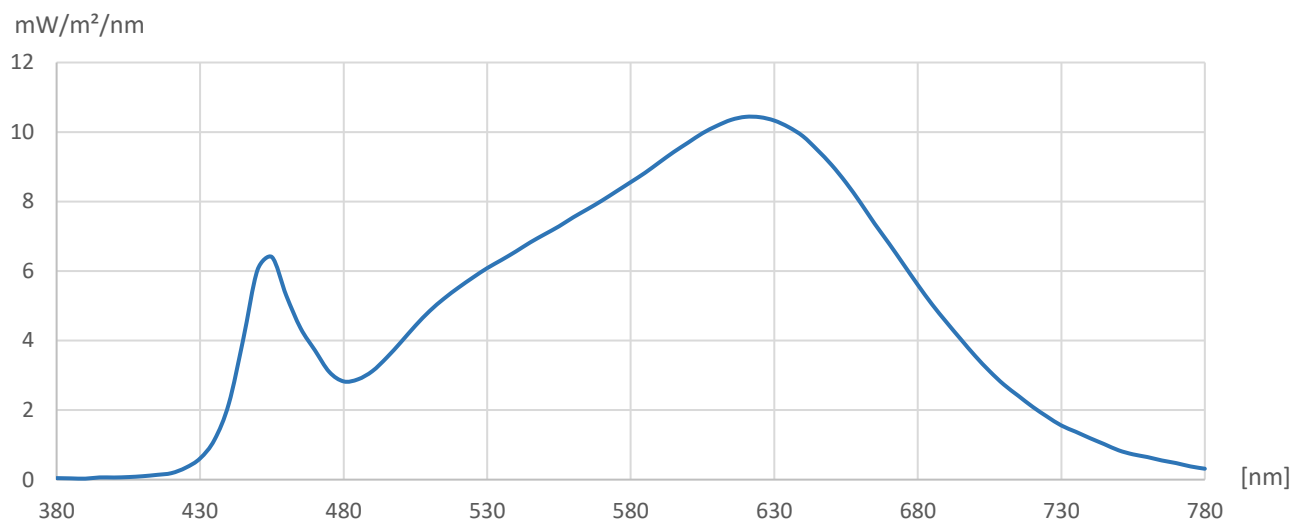


Measurement Protocol



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 Model: VL10-30K

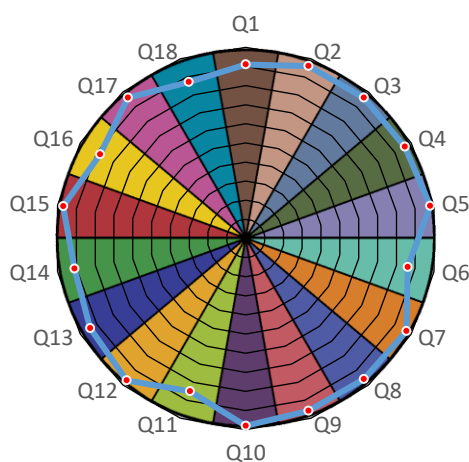
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correlated color temperature (CCT) 3,103 K
 TLCI 93

Reference Spectrum Plank

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



Test Colour	Value	Test Colour	Value	Test Colour	Value
Q1 Dark skin	91	Q7 Orange	97	Q13 Blue	94
Q2 Light skin	96	Q8 Purplish blue	96	Q14 Green	91
Q3 Blue sky	96	Q9 Moderate red	96	Q15 Red	97
Q4 Foliage	96	Q10 Purple	98	Q16 Yellow	88
Q5 Blue flower	98	Q11 Yellow green	85	Q17 Magenta	96
Q6 Bluish green	86	Q12 Orange yellow	97	Q18 Cyan	87