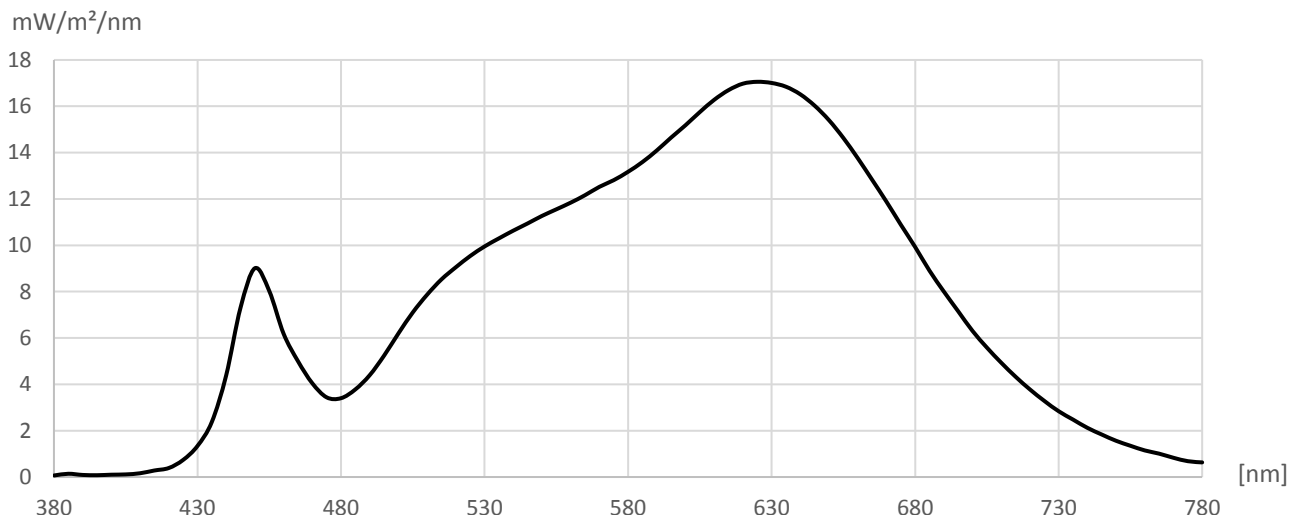


Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.
 Type: Victory™ Select LED Puck Light
 Model: PL-R-MULTI-W-24V (3000K)

Measurement file: PL-R-MULTI.CSV
 Date of measurement: 10.01.2025
 Time of measurement: 9:41:46



R1 = 94.8	Ra = 93.9	Illuminance	858.88 lx	CIE1931
R2 = 95.7	Re = 91.3	Ee	3.052 W/m ²	x = 0.4341
R3 = 95.1	GAI = 59.2	LER	281.4 lm/W	y = 0.4030
R4 = 94.7				
R5 = 93.8	TLCI = 94.0	Correlated Color Temperature (CCT)	3,022 K	CIE1976
R6 = 94.2		Duv	0.0000	u' = 0.2492
R7 = 94.8	PPFD			v' = 0.5205
R8 = 87.8	[μmol/m ² s]	Saturation	51.10 %	
R9 = 70.9	13.94			CIE1960
R10 = 88.8		Dominant wavelength	582 nm	u = 0.2492
R11 = 95.0		Peak wavelength	628 nm	v = 0.3470
R12 = 80.2				
R13 = 95.0		Flicker frequency	% < 1.0	TM30
R14 = 96.5		Percent Flicker	< 1.0	Rf = 91.4
R15 = 92.0		Flicker index	% < 1.0	Rg = 101.2

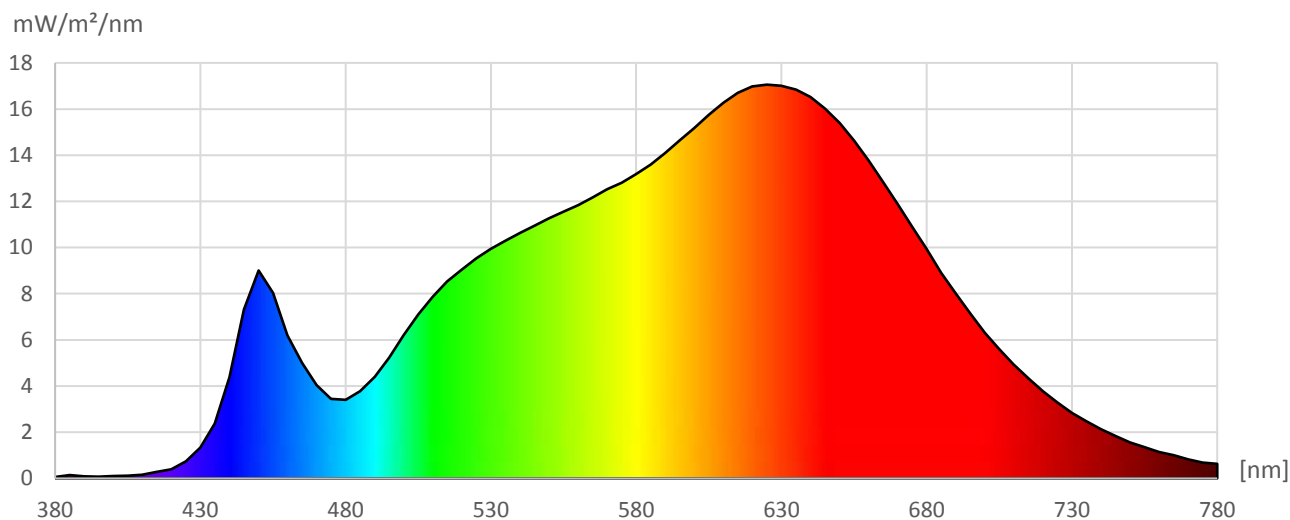
[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm
380	0.07	440	4.39	500	6.20	560	11.84	620	16.98	680	9.93	740	2.12
385	0.14	445	7.31	505	7.10	565	12.16	625	17.06	685	8.91	745	1.83
390	0.09	450	9.01	510	7.87	570	12.52	630	17.01	690	8.01	750	1.56
395	0.08	455	8.03	515	8.53	575	12.81	635	16.85	695	7.15	755	1.35
400	0.10	460	6.19	520	9.05	580	13.17	640	16.52	700	6.31	760	1.15
405	0.11	465	5.00	525	9.54	585	13.59	645	16.03	705	5.59	765	1.01
410	0.16	470	4.05	530	9.95	590	14.09	650	15.40	710	4.93	770	0.83
415	0.28	475	3.44	535	10.30	595	14.65	655	14.63	715	4.33	775	0.68
420	0.39	480	3.40	540	10.63	600	15.18	660	13.76	720	3.78	780	0.63
425	0.74	485	3.78	545	10.94	605	15.75	665	12.83	725	3.29		
430	1.34	490	4.39	550	11.27	610	16.28	670	11.89	730	2.84		
435	2.38	495	5.24	555	11.55	615	16.70	675	10.89	735	2.48		

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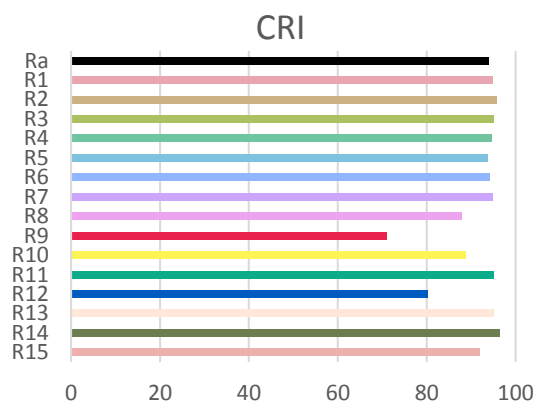
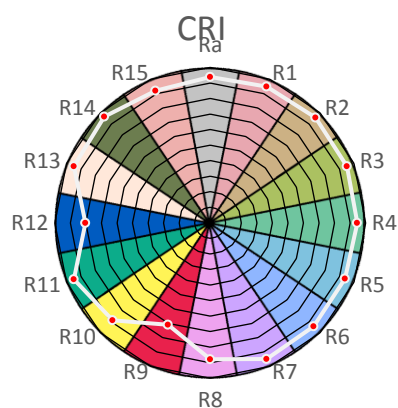
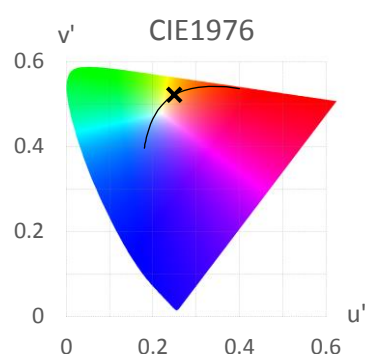
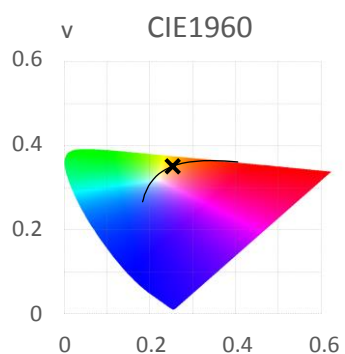
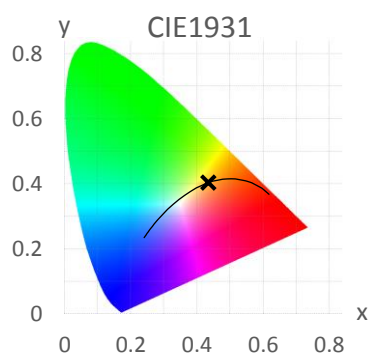
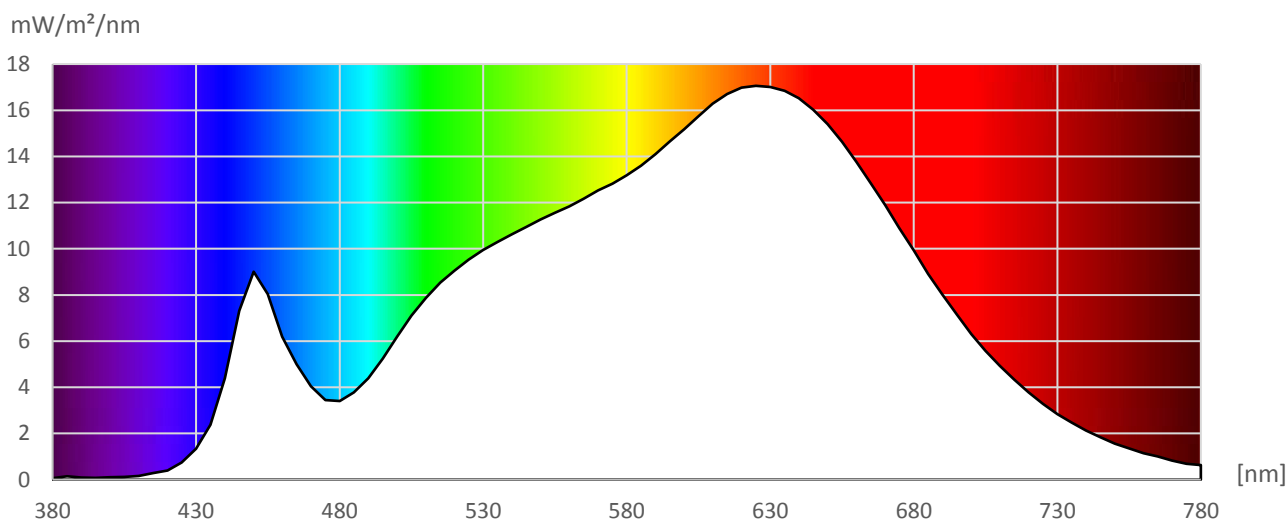
[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm
380	0.07	535	10.30	690	8.01								
385	0.14	540	10.63	695	7.15								
390	0.09	545	10.94	700	6.31								
395	0.08	550	11.27	705	5.59								
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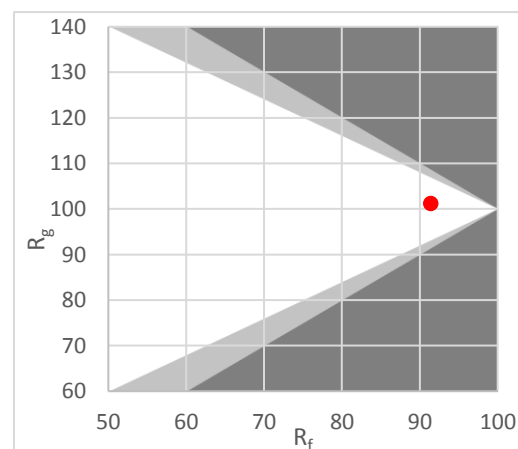
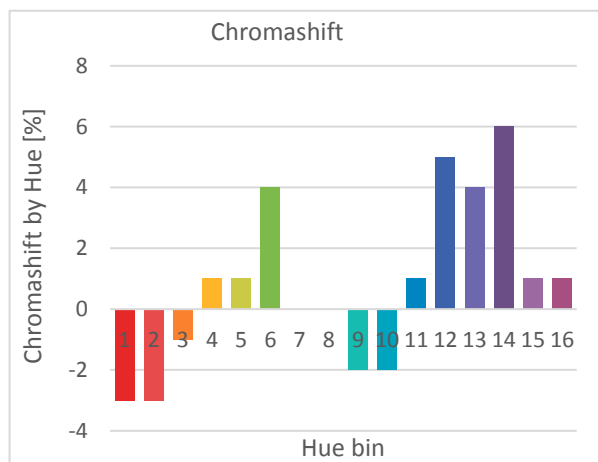
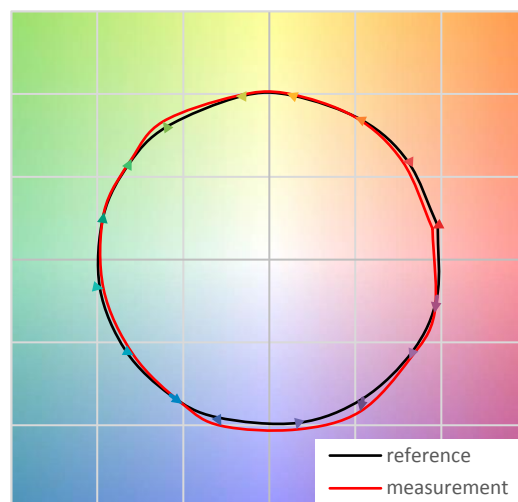
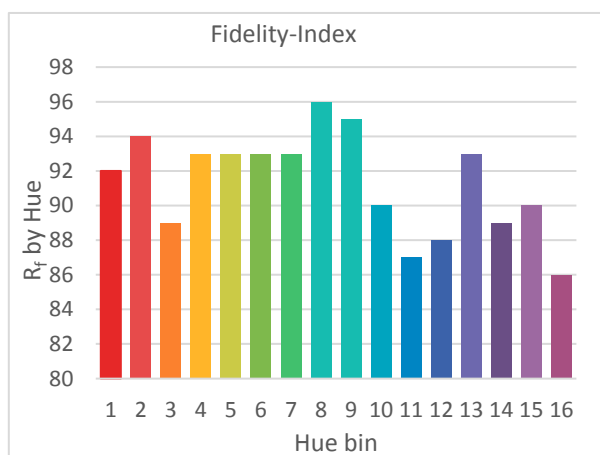
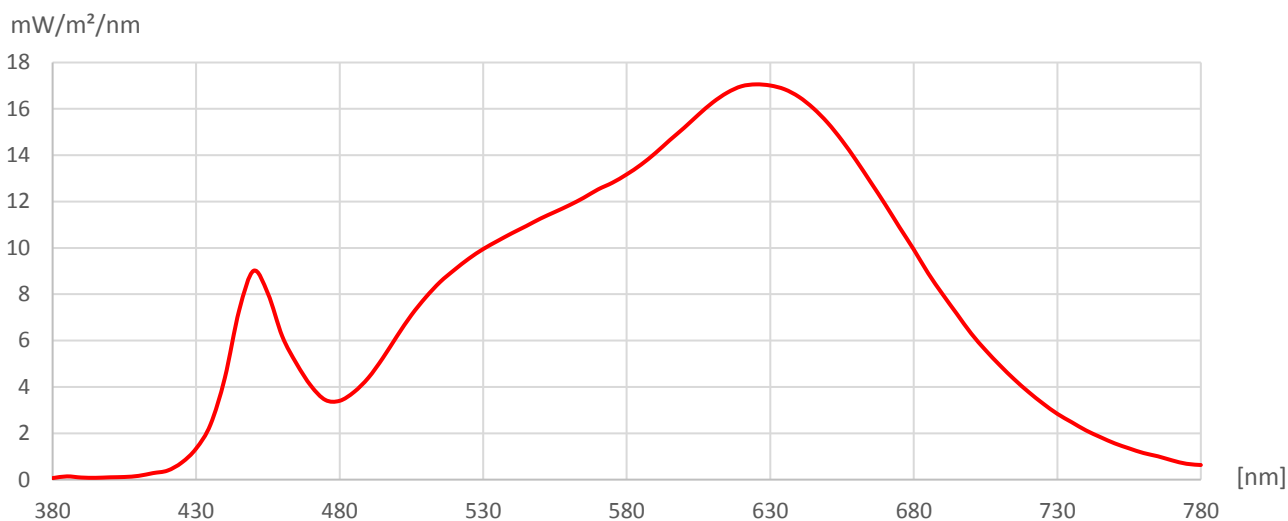


Measurement Protocol



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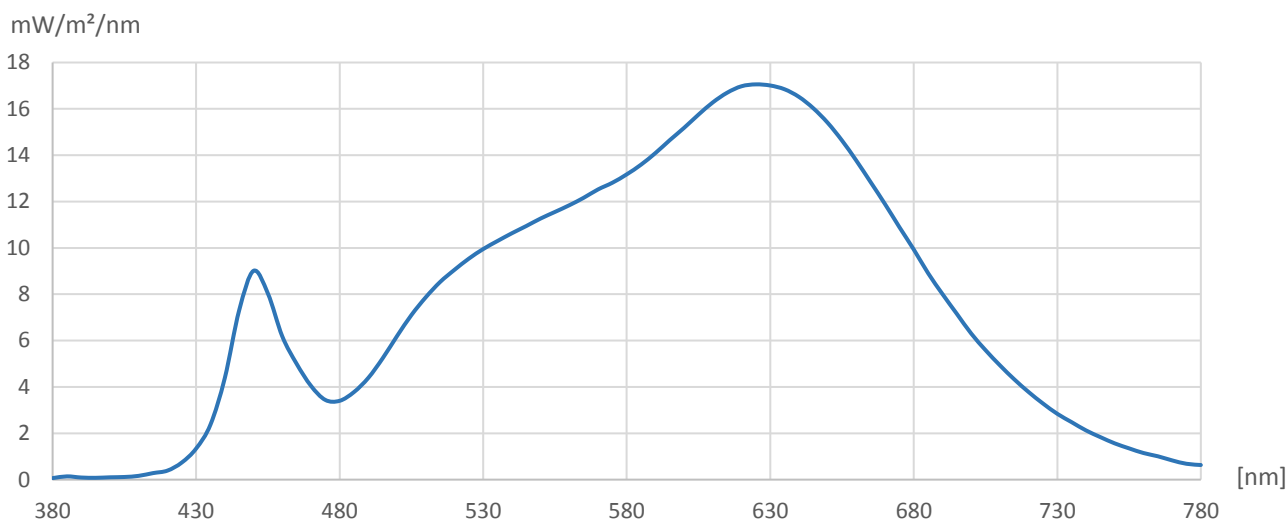


Measurement Protocol



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 Model: PL-R-MULTI-W-24V (3000K)

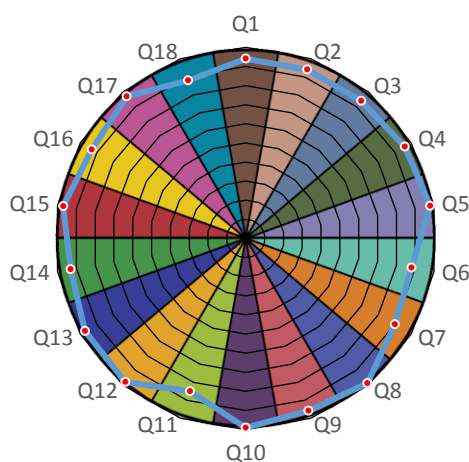
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correlated color temperature (CCT) 3,022 K
 TLCI 94

Reference 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	0
G/C	0	0	0
C	0	0	2
C/B	0	0	2
B	0	-1	-1
B/M	1	0	1
M	1	0	2
M/R	1	0	2



Test Colour	Value	Test Colour	Value	Test Colour	Value
Q1 Dark skin	94	Q7 Orange	90	Q13 Blue	97
Q2 Light skin	94	Q8 Purplish blue	99	Q14 Green	93
Q3 Blue sky	94	Q9 Moderate red	96	Q15 Red	97
Q4 Foliage	96	Q10 Purple	99	Q16 Yellow	93
Q5 Blue flower	98	Q11 Yellow green	85	Q17 Magenta	97
Q6 Bluish green	88	Q12 Orange yellow	98	Q18 Cyan	88