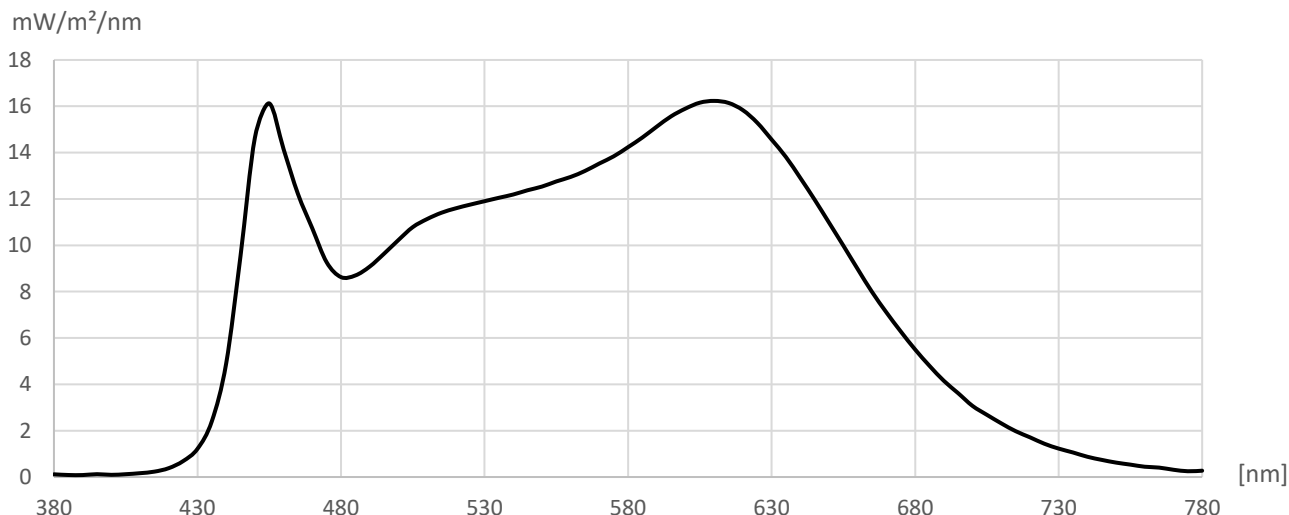


Measurement Protocol



Manufacturer: Flexfire LEDs, Inc.
 Type: Victory™ Select LED Puck Light
 Model: PL-R-MULTI-W-24V (4000K)

Measurement file: PL-R-MULTI.CSV
 Date of measurement: 10.01.2025
 Time of measurement: 9:42:32



R1 = 95.5	Ra = 92.9	Illuminance	952.49 lx	CIE1931
R2 = 99.2	Re = 90.6	Ee	3.127 W/m ²	x = 0.3779
R3 = 95.6	GAI = 76.3	LER	304.6 lm/W	y = 0.3749
R4 = 91.6				
R5 = 94.2	TLCI = 90.0	Correlated Color Temperature (CCT)	4,057 K	CIE1976
R6 = 95.3		Duv	-0.0001	u' = 0.2242
R7 = 89.5	PPFD			v' = 0.5004
R8 = 81.8	[μmol/m ² s]	Saturation	25.90 %	
R9 = 60.1	14.29			CIE1960
R10 = 99.4		Dominant wavelength	578 nm	u = 0.2242
R11 = 94.5		Peak wavelength	606 nm	v = 0.3336
R12 = 75.4				
R13 = 97.9		Flicker frequency	% < 1.0	TM30
R14 = 98.1		Percent Flicker	< 1.0	Rf = 87.4
R15 = 91.0		Flicker index	% < 1.0	Rg = 96.1

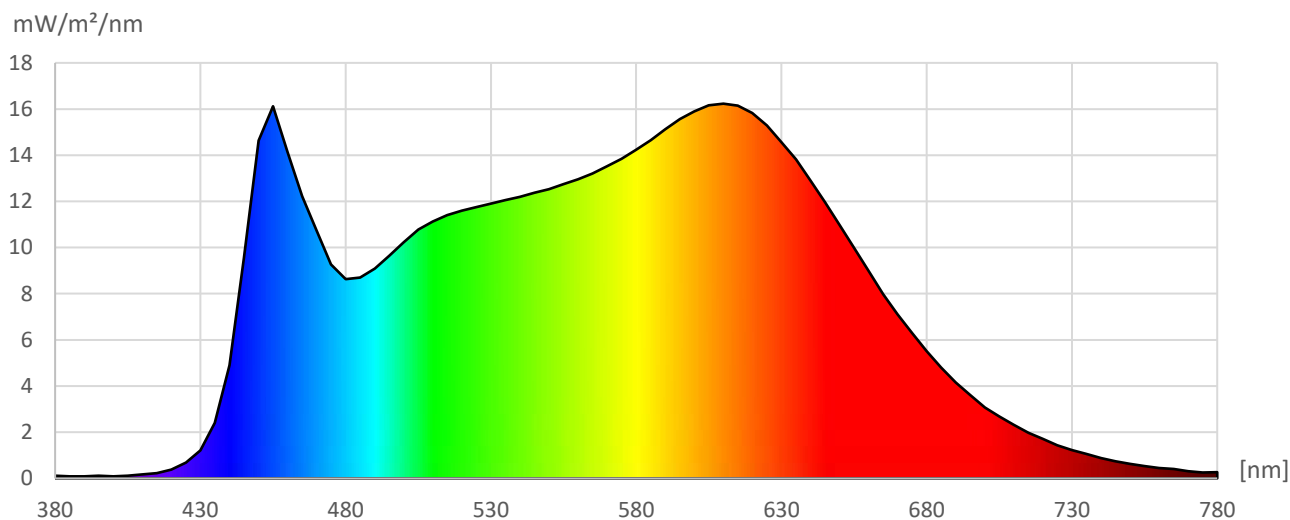
[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm
380	0.12	440	4.90	500	10.23	560	12.95	620	15.83	680	5.50	740	0.88
385	0.09	445	9.55	505	10.79	565	13.21	625	15.29	685	4.80	745	0.74
390	0.09	450	14.64	510	11.13	570	13.53	630	14.57	690	4.15	750	0.62
395	0.12	455	16.13	515	11.41	575	13.84	635	13.81	695	3.62	755	0.53
400	0.09	460	14.15	520	11.60	580	14.24	640	12.91	700	3.07	760	0.44
405	0.12	465	12.22	525	11.76	585	14.65	645	11.97	705	2.69	765	0.41
410	0.17	470	10.73	530	11.90	590	15.12	650	10.98	710	2.32	770	0.31
415	0.23	475	9.27	535	12.05	595	15.57	655	9.99	715	1.98	775	0.25
420	0.38	480	8.63	540	12.19	600	15.90	660	8.97	720	1.71	780	0.27
425	0.69	485	8.70	545	12.38	605	16.16	665	7.99	725	1.44		
430	1.22	490	9.08	550	12.53	610	16.23	670	7.10	730	1.23		
435	2.41	495	9.64	555	12.76	615	16.15	675	6.28	735	1.06		

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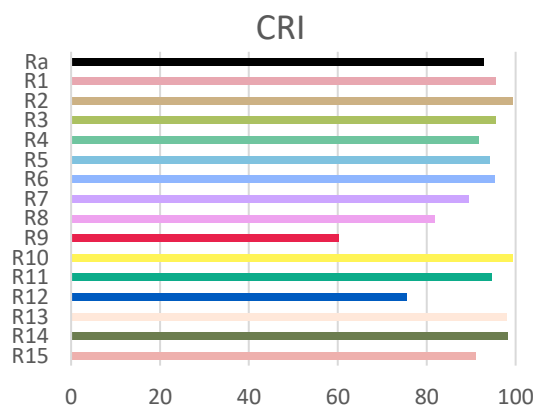
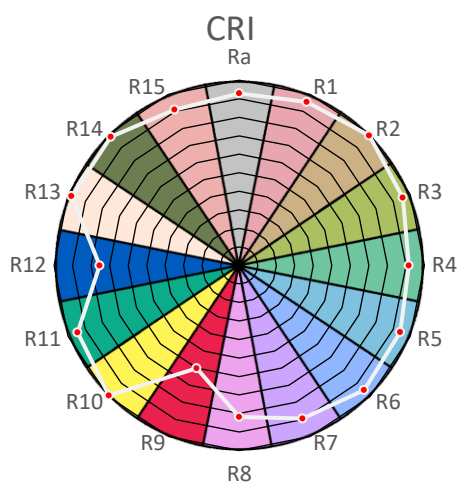
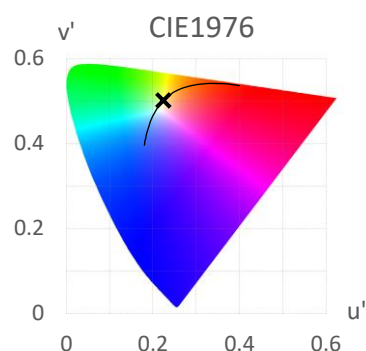
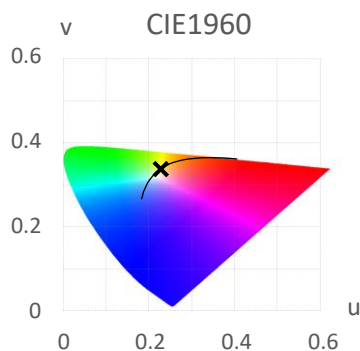
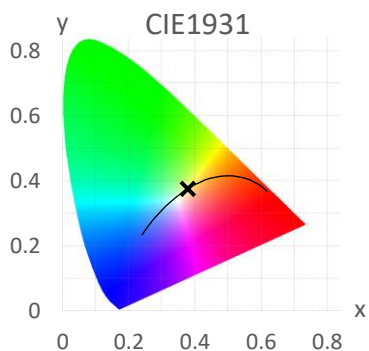
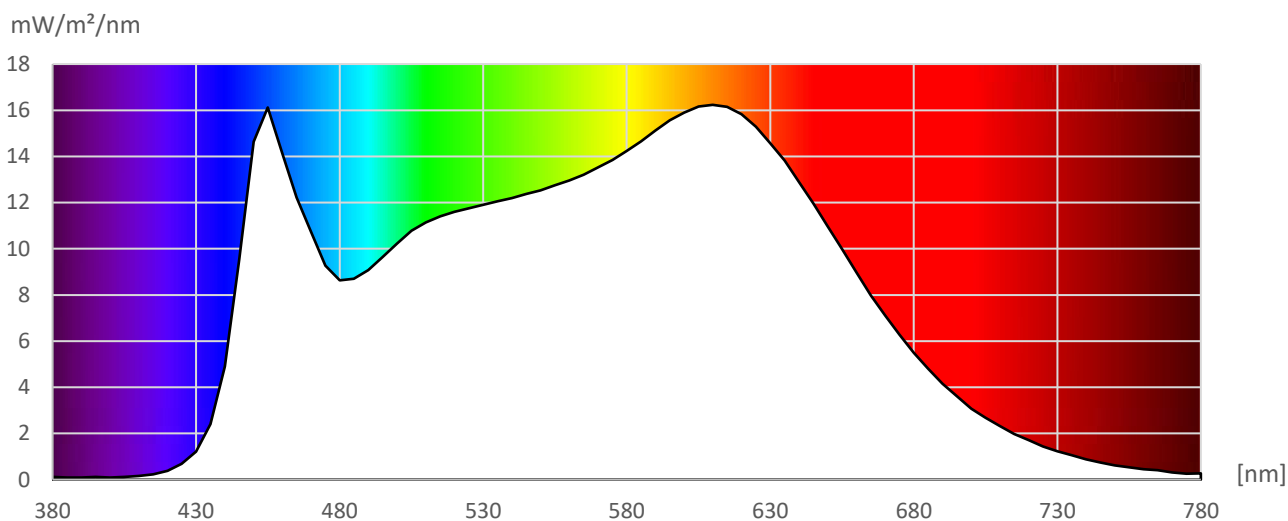
[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm	[nm]	mW/m ² /nm
380	0.12	535	12.05	690	4.15								
385	0.09	540	12.19	695	3.62								
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395	0.12	550	12.53	705	2.69								
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485	8.70	640	12.91										
490	9.08	645	11.97										
495	9.64	650	10.98										
500	10.23	655	9.99										
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510	11.13	665	7.99										
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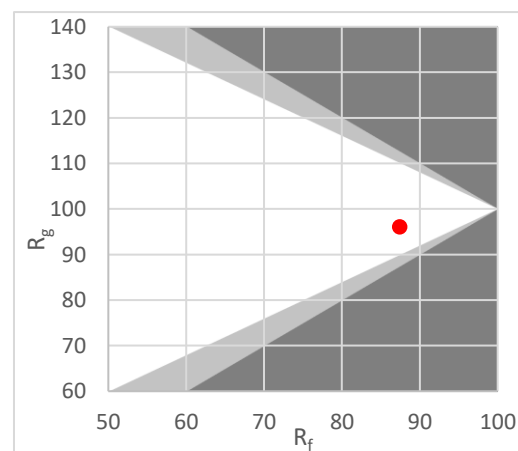
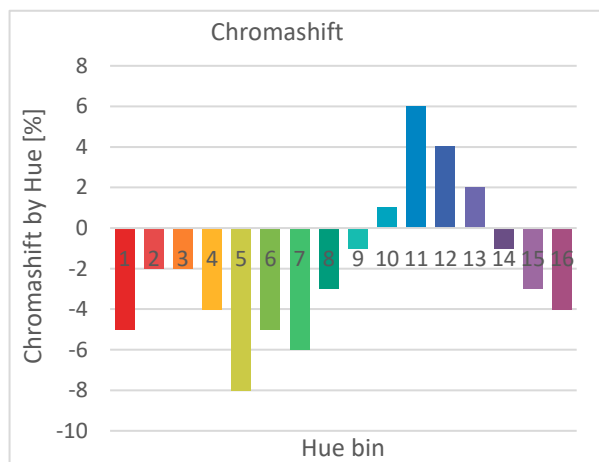
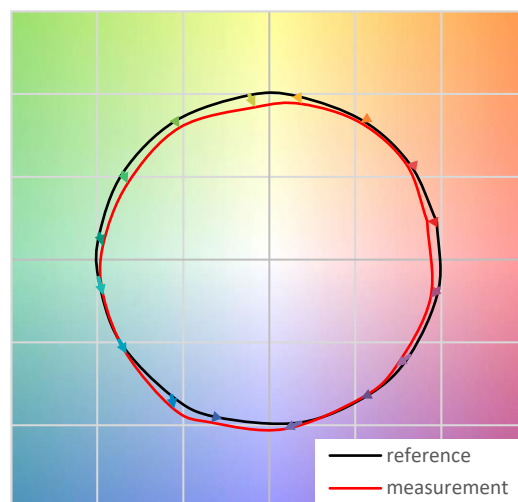
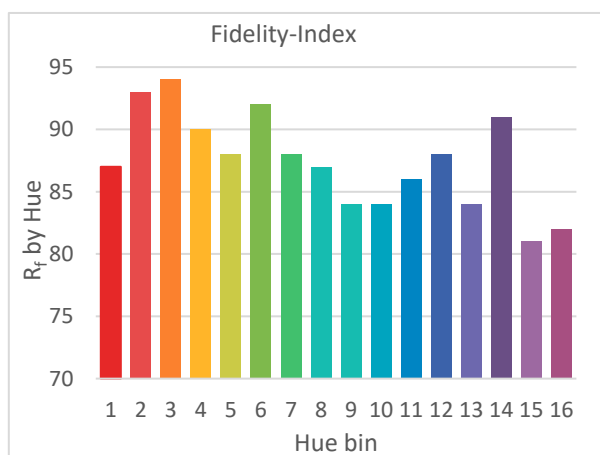
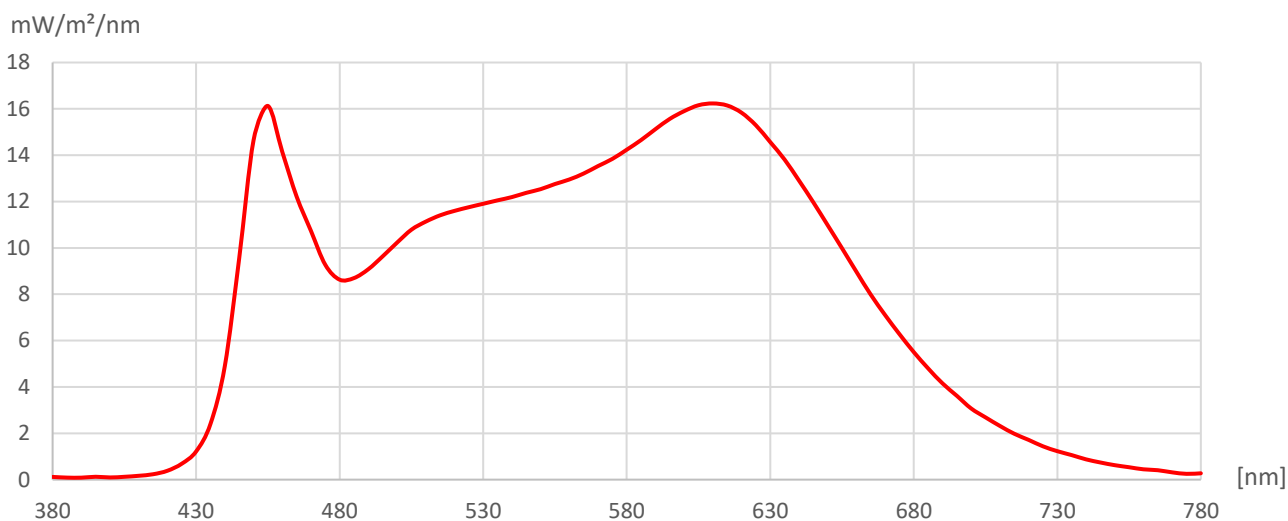


Measurement Protocol



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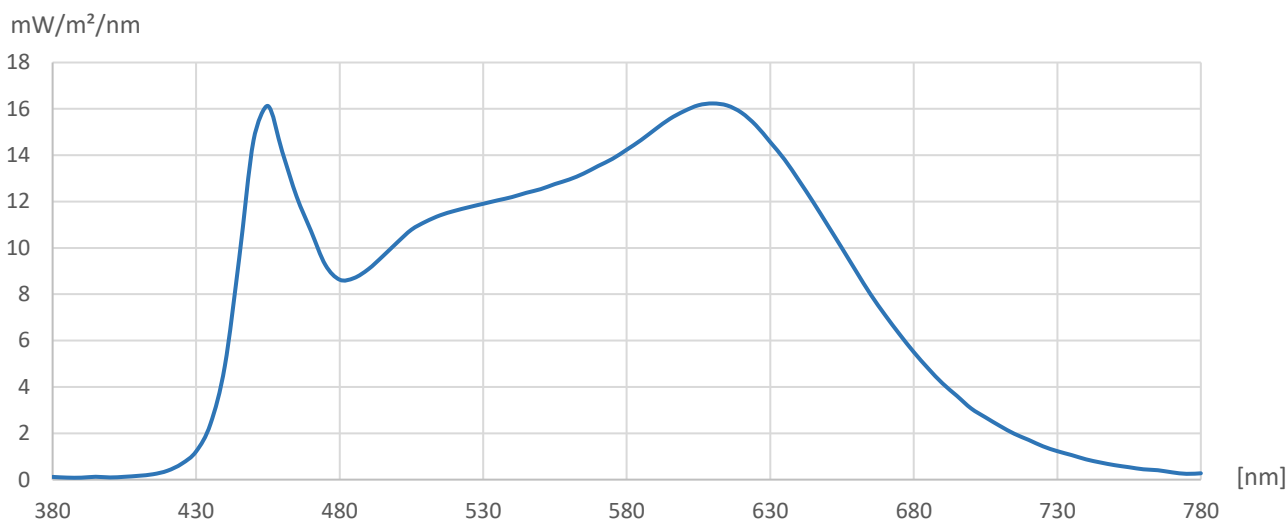


Measurement Protocol



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 Model: PL-R-MULTI-W-24V (4000K)

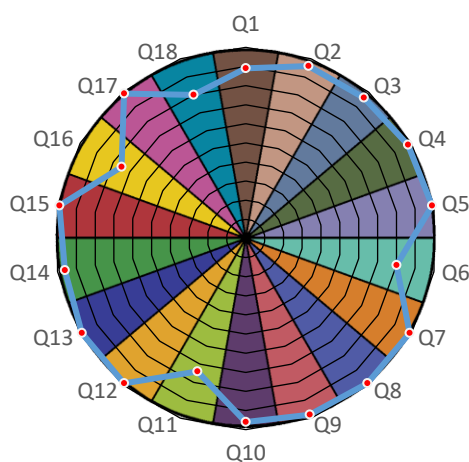
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correlated color temperature (CCT) 4,057 K
 TLCI 90

Reference Spectrum Plank-Daylight Mix

	Lightness	Chroma	Hue
R	2	1	0
R/Y	0	1	-1
Y	0	1	-1
Y/G	0	1	-1
G	0	1	-1
G/C	0	1	-1
C	0	1	-1
C/B	0	0	-1
B	0	-1	0
B/M	1	0	3
M	1	1	2
M/R	2	1	1



Test Colour	Value	Test Colour	Value	Test Colour	Value
Q1 Dark skin	89	Q7 Orange	99	Q13 Blue	99
Q2 Light skin	96	Q8 Purplish blue	99	Q14 Green	96
Q3 Blue sky	96	Q9 Moderate red	98	Q15 Red	99
Q4 Foliage	98	Q10 Purple	96	Q16 Yellow	75
Q5 Blue flower	99	Q11 Yellow green	74	Q17 Magenta	99
Q6 Bluish green	80	Q12 Orange yellow	99	Q18 Cyan	80