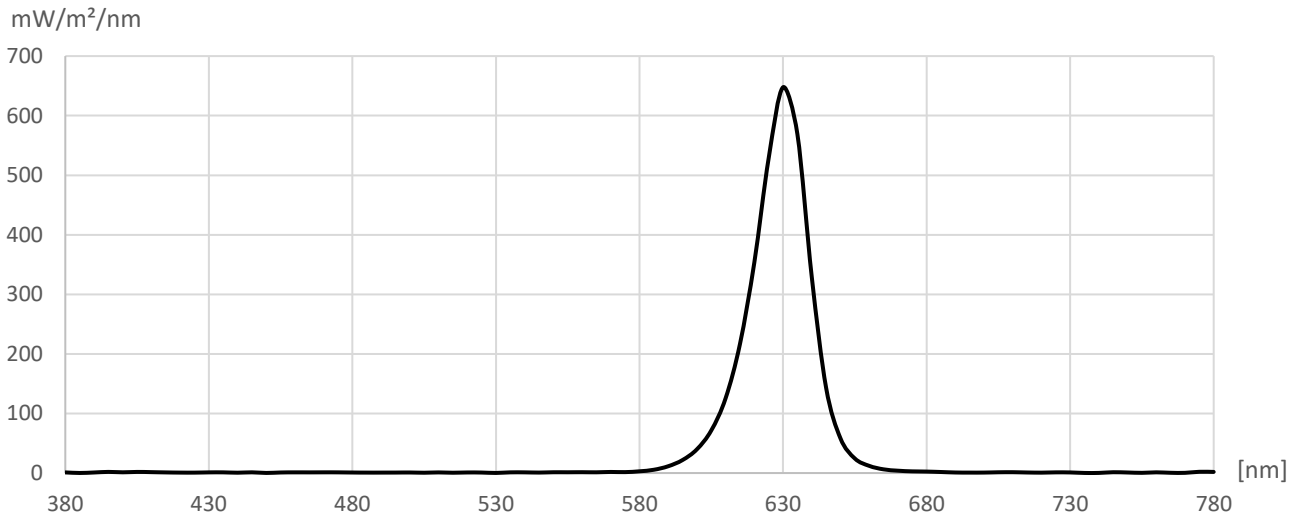


# Measurement protocol



Test object: Varytec  
Sidus Quad X4 #506145  
RED @ 1m distance

Measurement file: 09-48-09.CSV  
Date of measurement: 07.02.2024  
Time of measurement: 09:48:09



R1 = -	Ra = -	Illuminance	3281,9 lx	CIE1931
R2 = -	Re = -	Ee	16,200 W/m <sup>2</sup>	x = 0,6870
R3 = -	GAI = -	LER	202,6 lm/W	y = 0,3063
R4 = -				
R5 = -		correlated color temperature (CCT)	< 1600 K	CIE1976
R6 = -		Duv	-	u' = 0,5183
R7 = -				v' = 0,5200
R8 = -		Saturation	98 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	626 nm	u = 0,5183
R11 = -		Peak wavelength	630 nm	v = 0,3467
R12 = -				
R13 = -		Flicker frequency	% < 1.0 Hz	TM30
R14 = -		Percent Flicker	< 1.0 %	Rf = -
R15 = -		Flicker index	% < 1.0	Rg = -

[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	1,11	440	0,59	500	0,96	560	1,43	620	353,57	680	2,51	740	0,23
385	0,17	445	1,25	505	0,58	565	1,29	625	528,80	685	1,77	745	1,42
390	0,95	450	0,20	510	1,10	570	1,86	630	647,70	690	0,96	750	0,94
395	1,96	455	0,97	515	0,56	575	1,60	635	568,84	695	0,76	755	0,39
400	1,26	460	1,19	520	1,03	580	2,93	640	329,36	700	0,84	760	1,22
405	1,92	465	1,15	525	0,89	585	5,51	645	143,18	705	1,30	765	0,48
410	1,53	470	1,24	530	0,22	590	11,44	650	58,23	710	1,46	770	0,36
415	1,08	475	1,21	535	1,20	595	21,86	655	24,47	715	0,95	775	2,14
420	0,78	480	0,90	540	1,17	600	39,88	660	12,12	720	0,71	780	1,89
425	0,72	485	0,76	545	0,85	605	71,50	665	6,23	725	1,18		
430	1,13	490	0,77	550	1,37	610	125,59	670	3,96	730	1,05		
435	1,20	495	0,84	555	1,33	615	216,85	675	2,85	735	0,20		

Thomann GmbH  
Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

Jenny Röcklein

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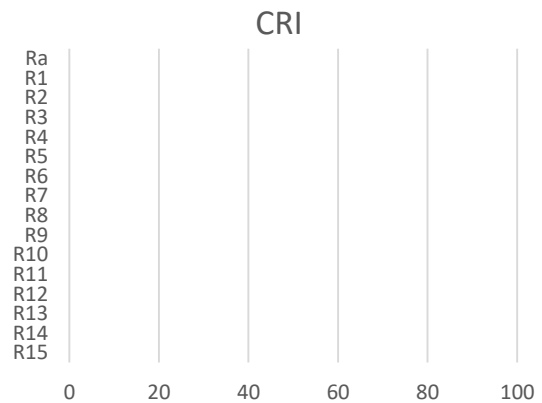
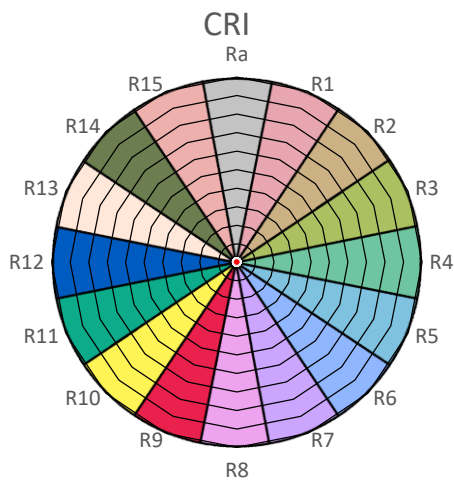
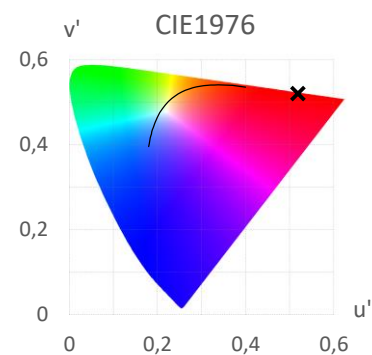
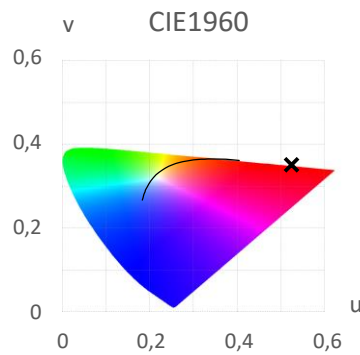
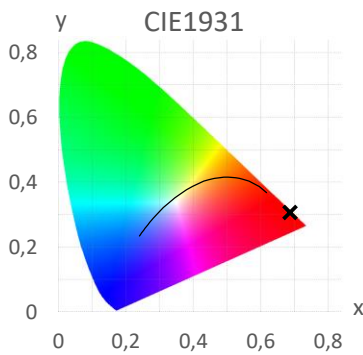
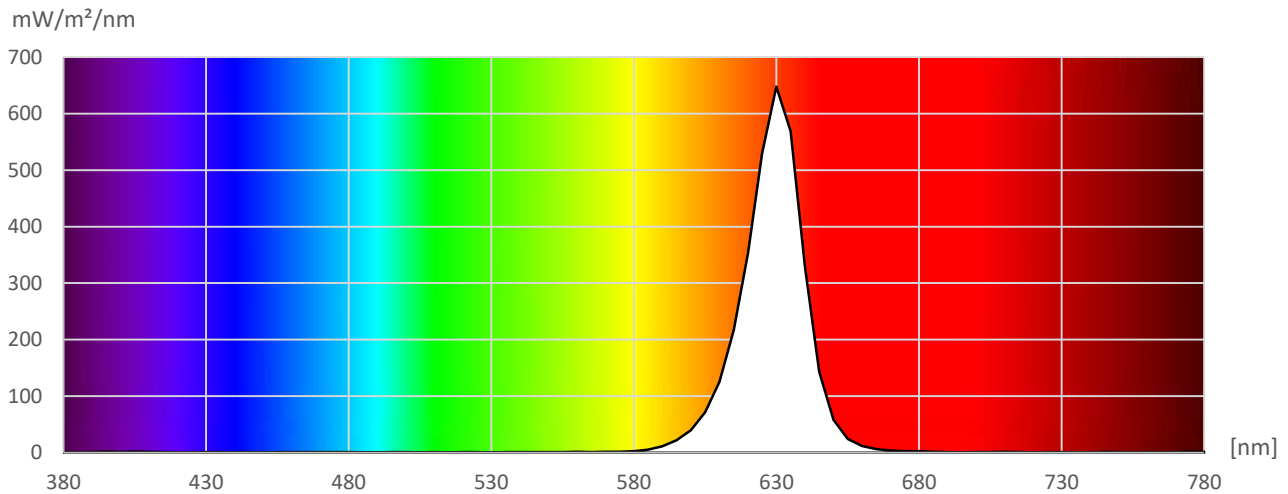
First, last name of inspector

# Measurement protocol



Test object: Varytec  
Sidus Quad X4 #506145  
RED @ 1m distance

Measurement file: 09-48-09.CSV  
Date of measurement: 07.02.2024  
Time of measurement: 09:48:09



Thomann GmbH  
Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

Burgebrach, 07.02.2024

Jenny Röckelein

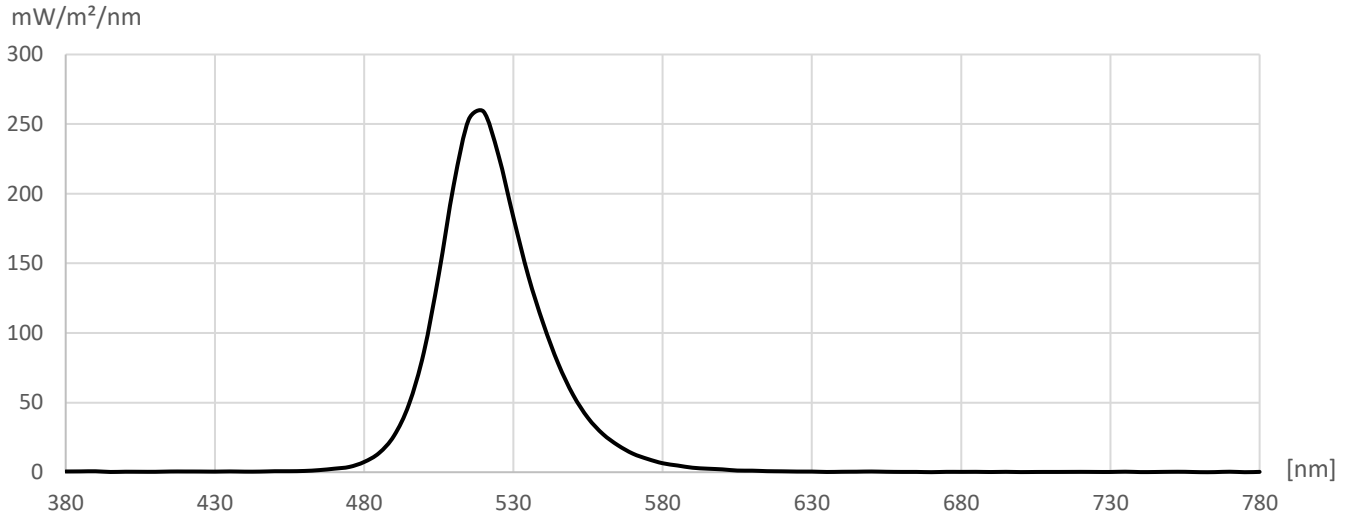
First, last name of inspector

# Measurement protocol



Test object: Varytec  
 Sidus Quad X4 #506145  
 GREEN @ 1m distance

Measurement file: 09-49-08.CSV  
 Date of measurement: 07.02.2024  
 Time of measurement: 09:49:08



R1 = -36,3	Ra = -24,9	Illuminance	4708,6 lx	CIE1931
R2 = -9,5	Re = -55,8	Ee	9,949 W/m <sup>2</sup>	x = 0,1552
R3 = -23,7	GAI = 0,6	LER	473,3 lm/W	y = 0,7257
R4 = -63,9				
R5 = -9,9		correlated color temperature (CCT)	8061 K	CIE1976
R6 = -17,6		Duv	0,1622	u' = 0,0545
R7 = -6,5		Saturation	77,3 %	v' = 0,5730
R8 = -31,9				
R9 = -358,9				CIE1960
R10 = -108,3		Dominant wavelength	521 nm	u = 0,0545
R11 = -93,6		Peak wavelength	517 nm	v = 0,3820
R12 = -34,0				
R13 = -42,4		Flicker frequency	% < 1.0 Hz	TM30
R14 = 38,4		Percent Flicker	< 1.0 %	Rf = 0,7
R15 = -38,7		Flicker index	% < 1.0	Rg = 8,1

[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	[nm]	mW/m <sup>2</sup> /nm
380	0,52	440	0,41	500	86,17	560	27,36	620	0,65	680	0,24	740	0,10		
385	0,59	445	0,44	505	142,01	565	19,38	625	0,46	685	0,27	745	0,17		
390	0,67	450	0,71	510	206,27	570	13,35	630	0,45	690	0,14	750	0,30		
395	0,19	455	0,72	515	253,17	575	9,49	635	0,19	695	0,27	755	0,30		
400	0,35	460	0,92	520	258,98	580	6,44	640	0,31	700	0,11	760	0,04		
405	0,32	465	1,51	525	227,61	585	4,82	645	0,38	705	0,19	765	0,09		
410	0,30	470	2,54	530	182,96	590	3,23	650	0,51	710	0,20	770	0,36		
415	0,51	475	3,78	535	140,85	595	2,54	655	0,31	715	0,21	775	0,04		
420	0,52	480	7,37	540	106,72	600	2,04	660	0,21	720	0,26	780	0,23		
425	0,48	485	13,81	545	78,04	605	1,20	665	0,21	725	0,21				
430	0,42	490	26,17	550	55,52	610	1,12	670	0,05	730	0,17				
435	0,56	495	48,77	555	38,92	615	0,76	675	0,26	735	0,38				

Thomann GmbH  
 Hans-Thomann-Str. 1  
 D-96138 Burgebrach, Germany

Jenny Röckelein

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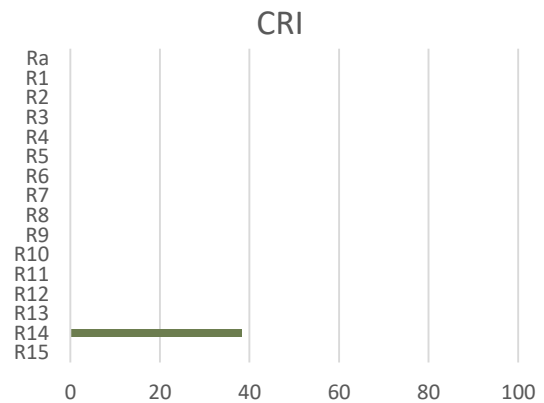
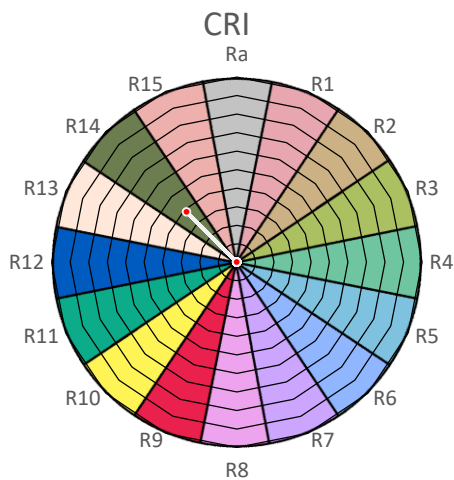
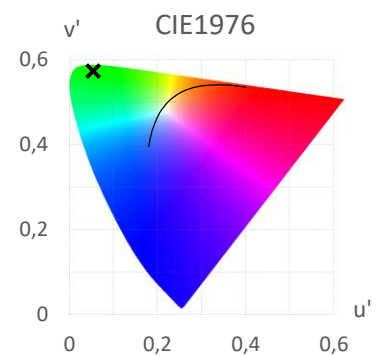
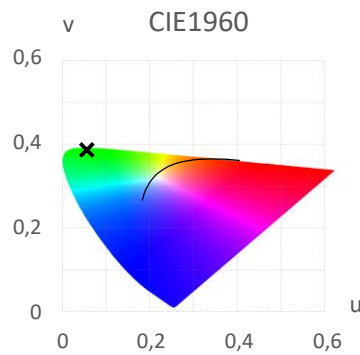
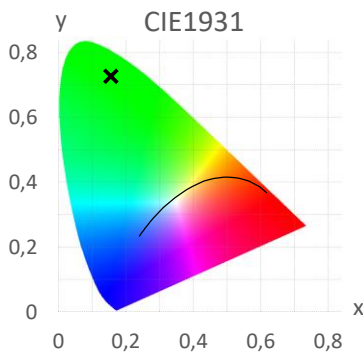
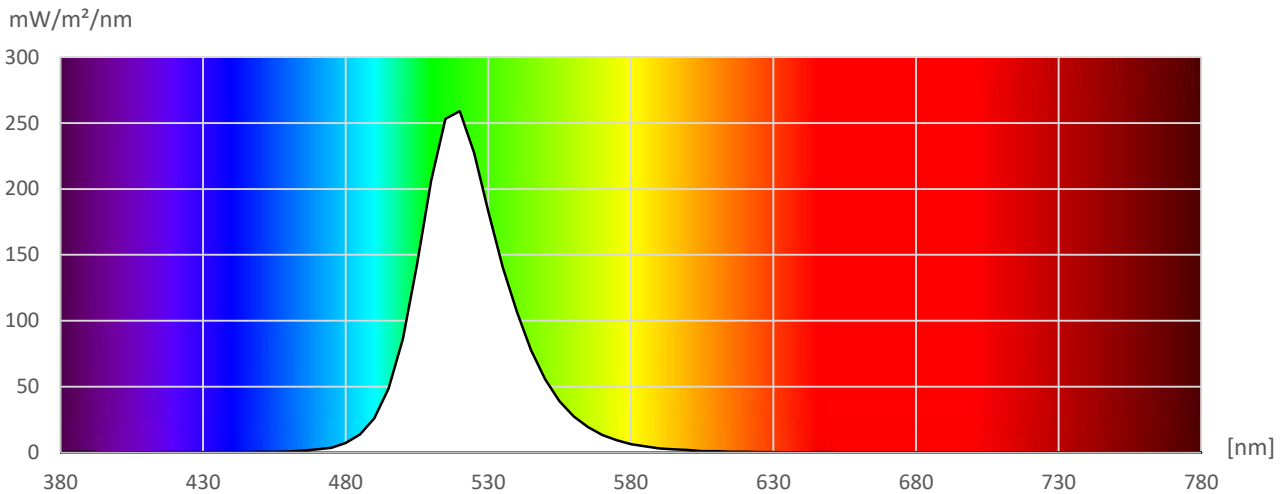
First, last name of inspector

# Measurement protocol

th•mann

Test object: Varytec  
Sidus Quad X4 #506145  
GREEN @ 1m distance

Measurement file: 09-49-08.CSV  
Date of measurement: 07.02.2024  
Time of measurement: 09:49:08



Thomann GmbH  
Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

Burgebrach, 07.02.2024

Jenny Röckelein

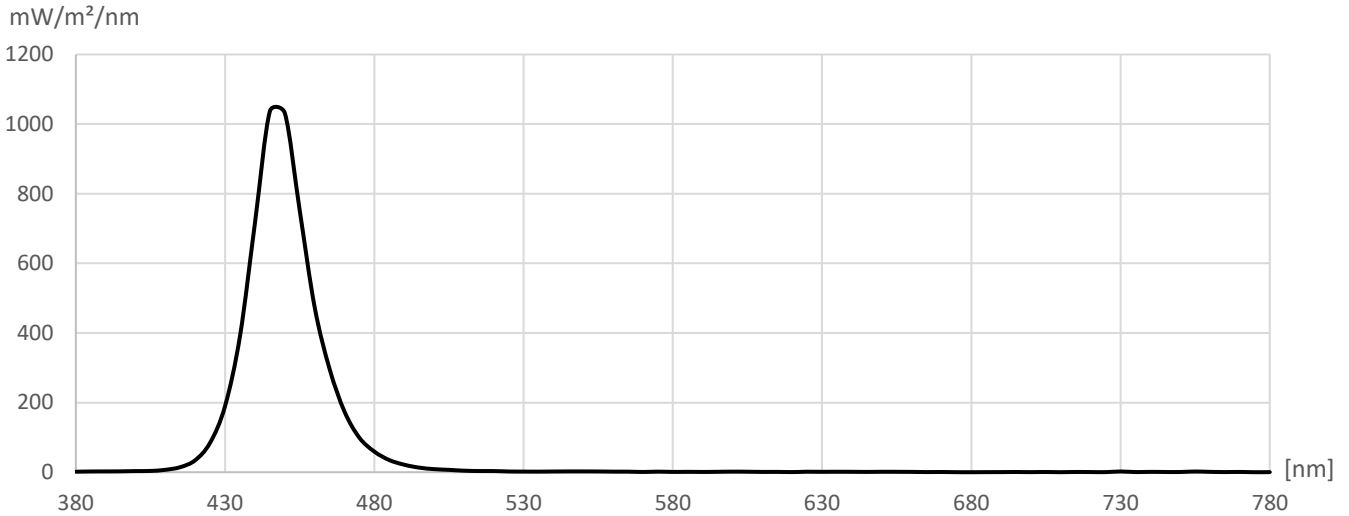
First, last name of inspector

# Measurement protocol



Test object: Varytec  
Sidus Quad X4 #506145  
BLUE @ 1m distance

Measurement file: 09-49-32.CSV  
Date of measurement: 07.02.2024  
Time of measurement: 09:49:32



R1 = -	Ra = -	Illuminance	925,99 lx	CIE1931
R2 = -	Re = -	Ee	27,640 W/m <sup>2</sup>	x = 0,1558
R3 = -	GAI = -	LER	33,5 lm/W	y = 0,0248
R4 = -				
R5 = -		correlated color temperature (CCT)	> 50000 K	CIE1976
R6 = -		Duv	-	u' = 0,2086
R7 = -				v' = 0,0748
R8 = -		Saturation	98,4 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	435 nm	u = 0,2086
R11 = -		Peak wavelength	447 nm	v = 0,0499
R12 = -				
R13 = -		Flicker frequency	% < 1.0 Hz	TM30
R14 = -		Percent Flicker	< 1.0 %	Rf = -
R15 = -		Flicker index	% < 1.0	Rg = -

[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	[nm]	mW/m <sup>2</sup> /nm
380	1,43	440	715,83	500	8,86	560	1,67	620	0,40	680	0,04	740	1,05		
385	2,14	445	1037,02	505	6,77	565	1,55	625	1,40	685	0,27	745	0,63		
390	2,27	450	1031,91	510	4,38	570	0,71	630	1,10	690	0,33	750	0,64		
395	2,51	455	751,87	515	3,44	575	1,61	635	1,33	695	0,61	755	2,00		
400	3,27	460	474,07	520	3,37	580	0,85	640	1,17	700	0,29	760	1,05		
405	3,66	465	296,83	525	2,08	585	1,11	645	0,91	705	0,68	765	0,44		
410	6,94	470	174,29	530	1,82	590	0,80	650	1,26	710	0,15	770	0,79		
415	14,62	475	98,98	535	1,67	595	1,18	655	1,16	715	0,76	775	0,06		
420	34,60	480	59,30	540	2,01	600	1,67	660	0,94	720	0,53	780	0,30		
425	85,07	485	34,96	545	2,26	605	1,44	665	0,45	725	0,29				
430	190,54	490	21,55	550	2,29	610	0,84	670	0,67	730	2,07				
435	391,59	495	13,20	555	2,10	615	0,96	675	0,11	735	0,41				

Thomann GmbH  
Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

Jenny Röckelein

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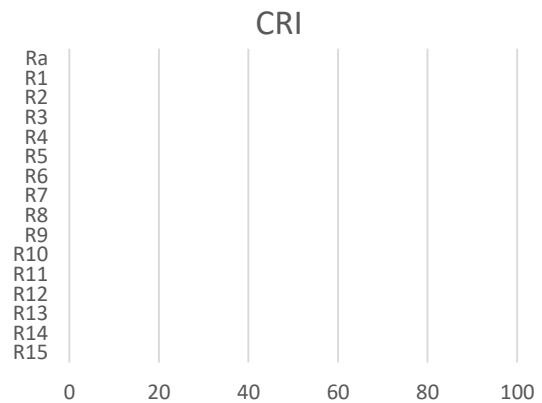
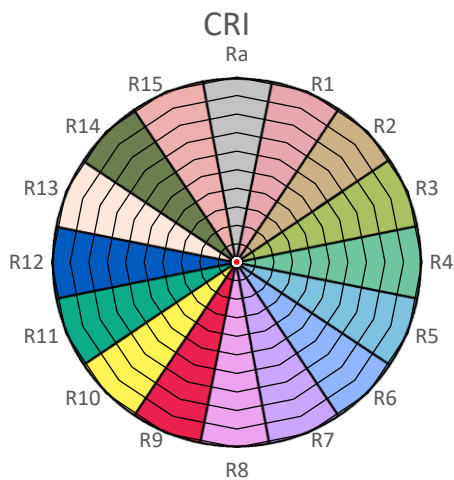
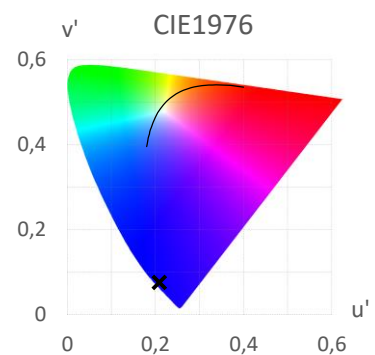
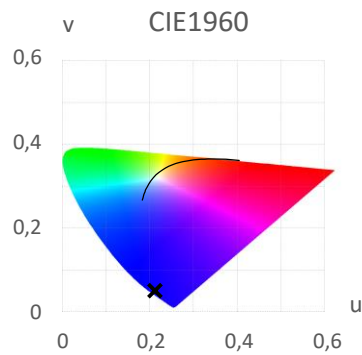
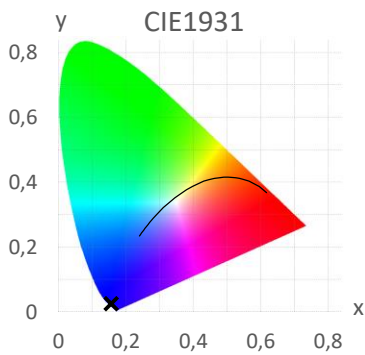
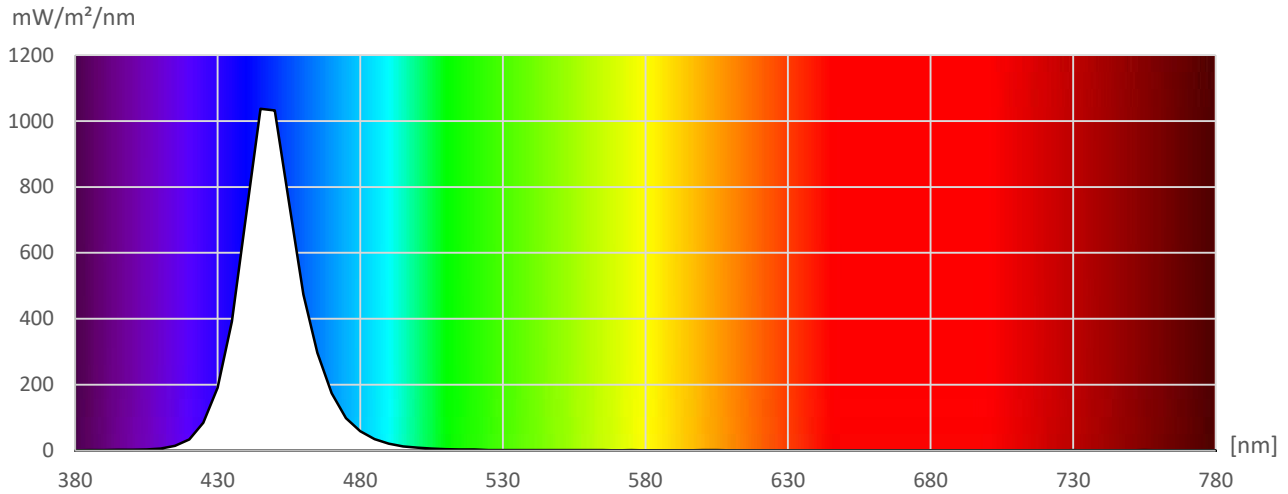
First, last name of inspector

# Measurement protocol



Test object: Varytec  
 Sidus Quad X4 #506145  
 BLUE @ 1m distance

Measurement file: 09-49-32.CSV  
 Date of measurement: 07.02.2024  
 Time of measurement: 09:49:32



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 Hans-Thomann-Str. 1  
 D-96138 Burgebrach, Germany

Burgebrach, 07.02.2024

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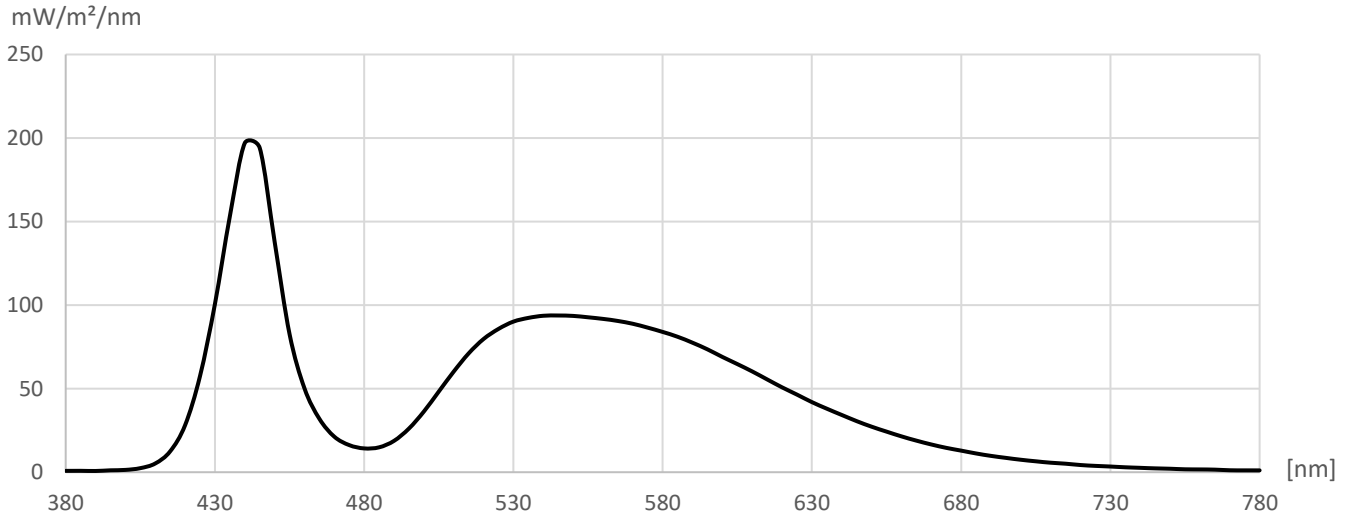
First, last name of inspector

# Measurement protocol



Test object: Varytec  
Sidus Quad X4 #506145  
WHITE @ 1m distance

Measurement file: 09-49-51.CSV  
Date of measurement: 07.02.2024  
Time of measurement: 09:49:51



R1 = 68,9	Ra = 68,3	Illuminance	5506,27 lx	CIE1931
R2 = 69,8	Re = 58,1	Ee	17,465 W/m <sup>2</sup>	x = 0,3093
R3 = 69,6	GAI = 89,0	LER	315,3 lm/W	y = 0,3231
R4 = 70,6				
R5 = 70,8		correlated color temperature (CCT)	6746 K	CIE1976
R6 = 61,7		Duv	0,0019	u' = 0,1977
R7 = 74,2		Saturation	9 %	v' = 0,4646
R8 = 60,6				
R9 = -30,3				CIE1960
R10 = 28,0		Dominant wavelength	483 nm	u = 0,1977
R11 = 72,2		Peak wavelength	442 nm	v = 0,3098
R12 = 42,8				
R13 = 67,1		Flicker frequency	% < 1.0 Hz	TM30
R14 = 82,7		Percent Flicker	< 1.0 %	Rf = 63,9
R15 = 62,0		Flicker index	% < 1.0	Rg = 95,9

[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	[nm]	mW/m <sup>2</sup> /nm
380	0,80	440	196,99	500	36,32	560	91,77	620	50,79	680	12,92	740	2,63		
385	0,83	445	194,09	505	48,28	565	90,52	625	46,45	685	11,23	745	2,30		
390	0,74	450	137,92	510	60,22	570	88,84	630	41,96	690	9,77	750	2,08		
395	1,14	455	82,66	515	71,11	575	86,52	635	38,01	695	8,57	755	1,75		
400	1,37	460	50,16	520	79,73	580	83,96	640	34,27	700	7,45	760	1,67		
405	2,43	465	31,95	525	85,76	585	81,07	645	30,58	705	6,53	765	1,55		
410	5,23	470	21,28	530	90,14	590	77,50	650	27,25	710	5,68	770	1,17		
415	12,48	475	16,22	535	92,34	595	73,53	655	24,30	715	5,11	775	1,12		
420	28,14	480	14,24	540	93,63	600	69,00	660	21,46	720	4,29	780	1,09		
425	57,54	485	14,90	545	93,78	605	64,73	665	18,90	725	3,79				
430	100,70	490	18,77	550	93,55	610	60,31	670	16,61	730	3,40				
435	153,19	495	26,13	555	92,71	615	55,55	675	14,58	735	2,95				

Thomann GmbH  
Hans-Thomann-Str. 1  
D-96138 Burgebrach, Germany

Jenny Röckelein

Burgebrach, 07.02.2024

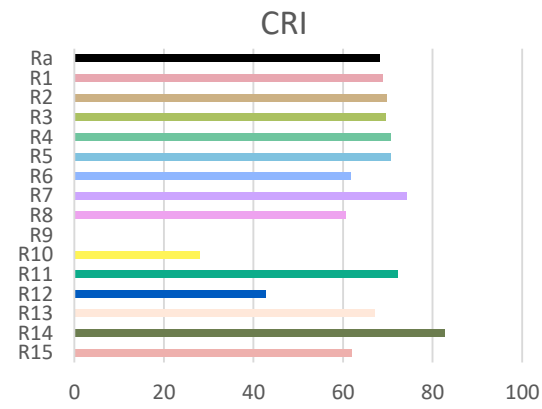
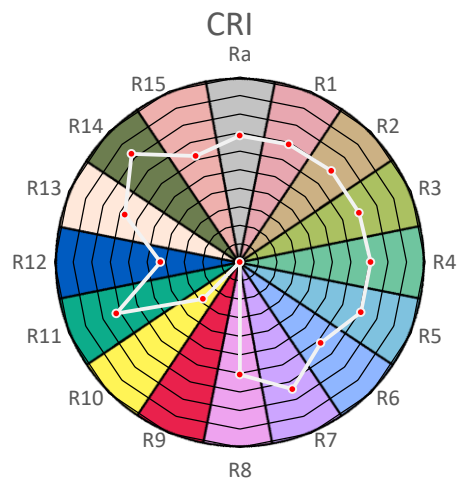
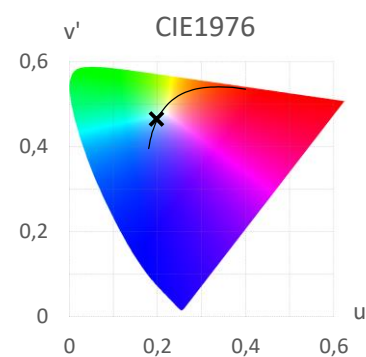
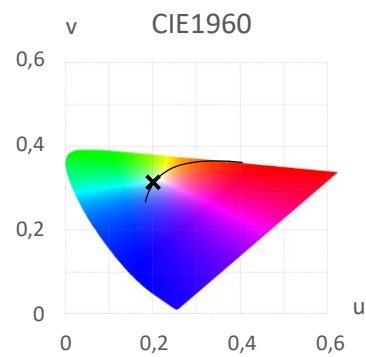
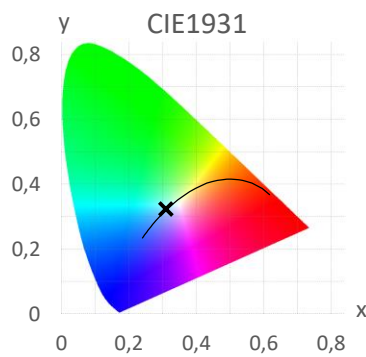
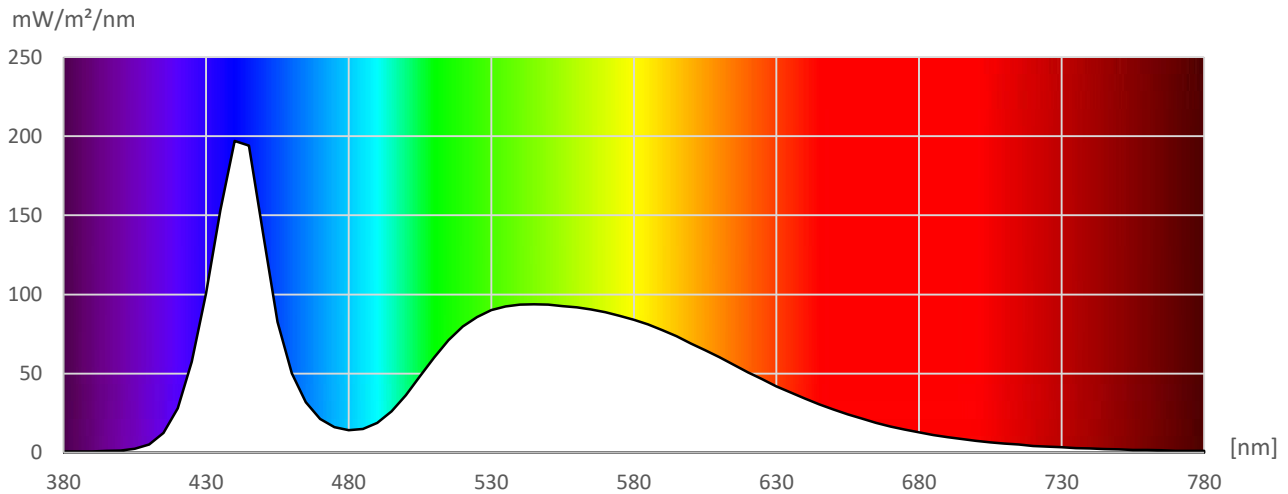
First, last name of inspector

# Measurement protocol



Test object: Varytec  
 Sidus Quad X4 #506145  
 WHITE @ 1m distance

Measurement file: 09-49-51.CSV  
 Date of measurement: 07.02.2024  
 Time of measurement: 09:49:51



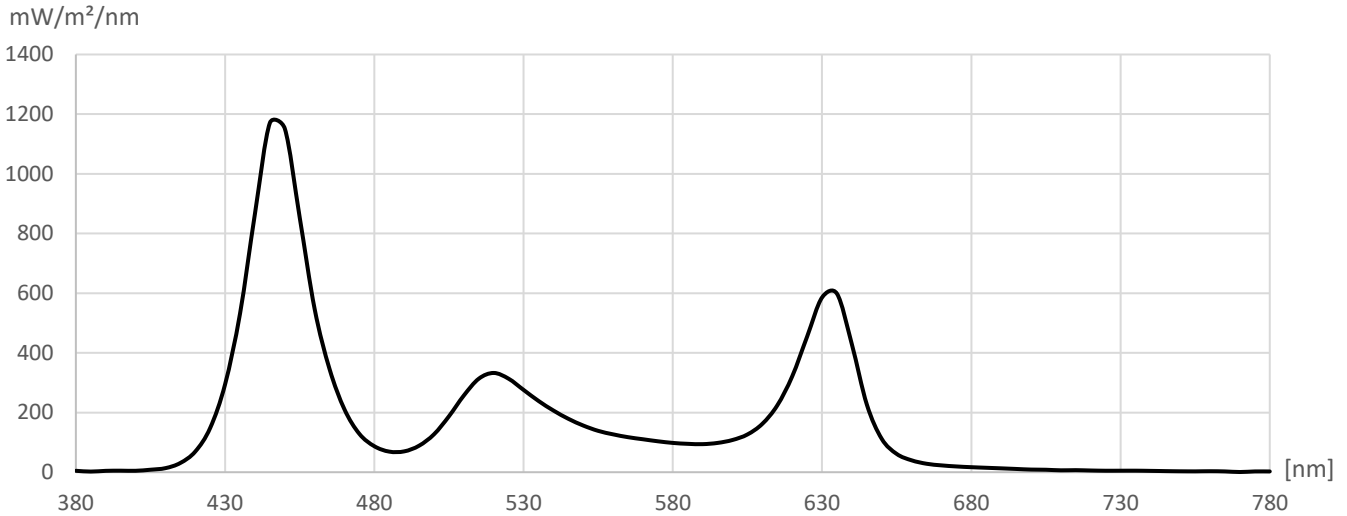


# Measurement protocol



Test object: Varytec  
 Sidus Quad X4 #506145  
 ALL @ 1m distance

Measurement file: 09-50-12.CSV  
 Date of measurement: 07.02.2024  
 Time of measurement: 09:50:12



R1 = -	Ra = -	Illuminance	14042,08 lx	CIE1931
R2 = -	Re = -	Ee	69,649 W/m <sup>2</sup>	x = 0,2653
R3 = -	GAI = -	LER	201,6 lm/W	y = 0,2012
R4 = -				
R5 = -		correlated color temperature (CCT)	> 50000 K	CIE1976
R6 = -		Duv	-	u' = 0,2173
R7 = -				v' = 0,3708
R8 = -		Saturation	38 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	#NV	u = 0,2173
R11 = -		Peak wavelength	447 nm	v = 0,2472
R12 = -				
R13 = -		Flicker frequency	% < 1.0 Hz	TM30
R14 = -		Percent Flicker	< 1.0 %	Rf = -
R15 = -		Flicker index	% < 1.0	Rg = -

[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	[nm]	mW/m <sup>2</sup> /nm
380	4,78	440	866,23	500	127,27	560	126,86	620	321,22	680	16,85	740	4,54		
385	2,18	445	1170,80	505	187,52	565	117,38	625	454,71	685	14,86	745	3,71		
390	4,56	450	1151,67	510	257,34	570	110,43	630	585,63	690	12,98	750	3,11		
395	5,14	455	853,59	515	313,45	575	103,68	635	598,18	695	10,95	755	2,84		
400	4,81	460	546,83	520	332,63	580	98,19	640	428,06	700	8,90	760	3,39		
405	8,39	465	345,56	525	313,25	585	95,12	645	226,96	705	8,25	765	2,66		
410	13,63	470	210,50	530	275,80	590	94,05	650	111,65	710	6,37	770	0,65		
415	30,95	475	128,34	535	238,92	595	98,17	655	61,33	715	6,94	775	2,60		
420	69,20	480	87,12	540	206,68	600	108,01	660	39,90	720	5,73	780	2,56		
425	148,31	485	69,02	545	179,03	605	126,54	665	28,37	725	4,98				
430	294,96	490	69,85	550	156,42	610	162,27	670	22,95	730	5,04				
435	531,55	495	88,92	555	138,60	615	224,00	675	19,31	735	5,17				

Thomann GmbH  
 Hans-Thomann-Str. 1  
 D-96138 Burgebrach, Germany

Jenny Röckelein

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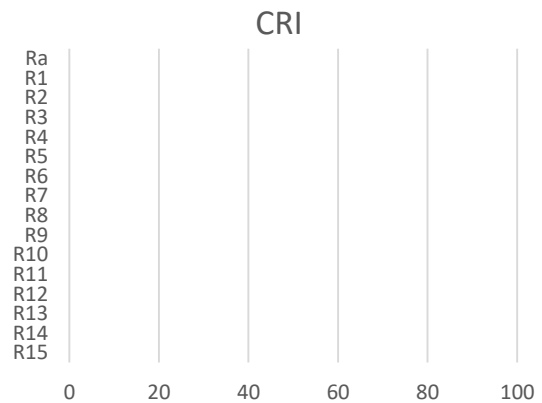
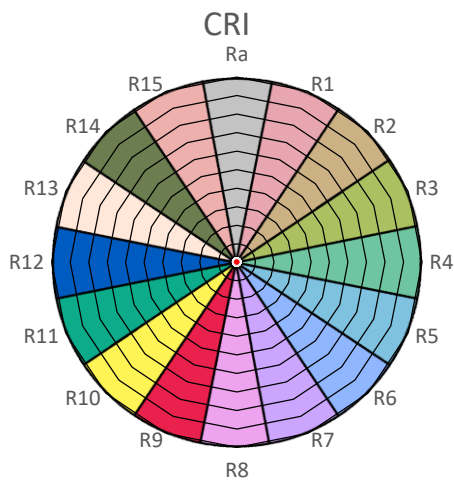
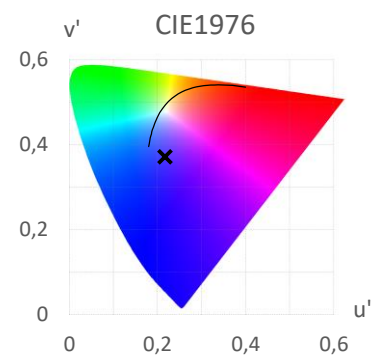
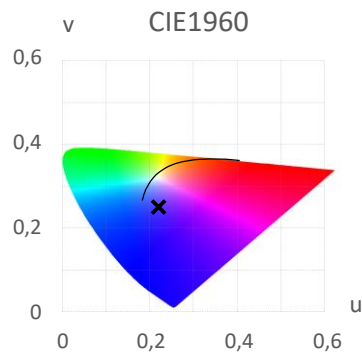
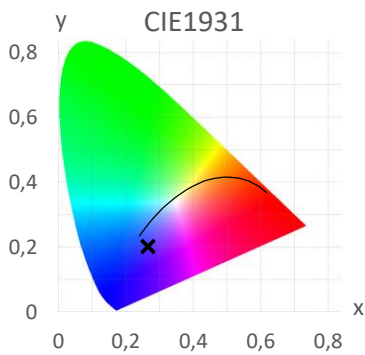
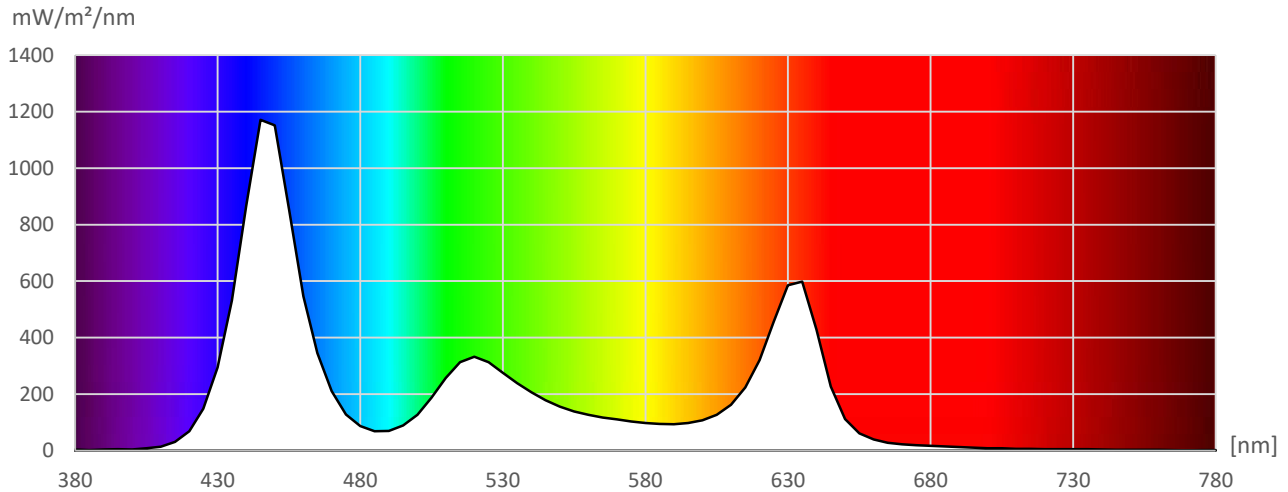
First, last name of inspector

# Measurement protocol



Test object: Varytec  
 Sidus Quad X4 #506145  
 ALL @ 1m distance

Measurement file: 09-50-12.CSV  
 Date of measurement: 07.02.2024  
 Time of measurement: 09:50:12



Thomann GmbH  
 Hans-Thomann-Str. 1  
 D-96138 Burgebrach, Germany

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Jenny Röckelein

First, last name of inspector