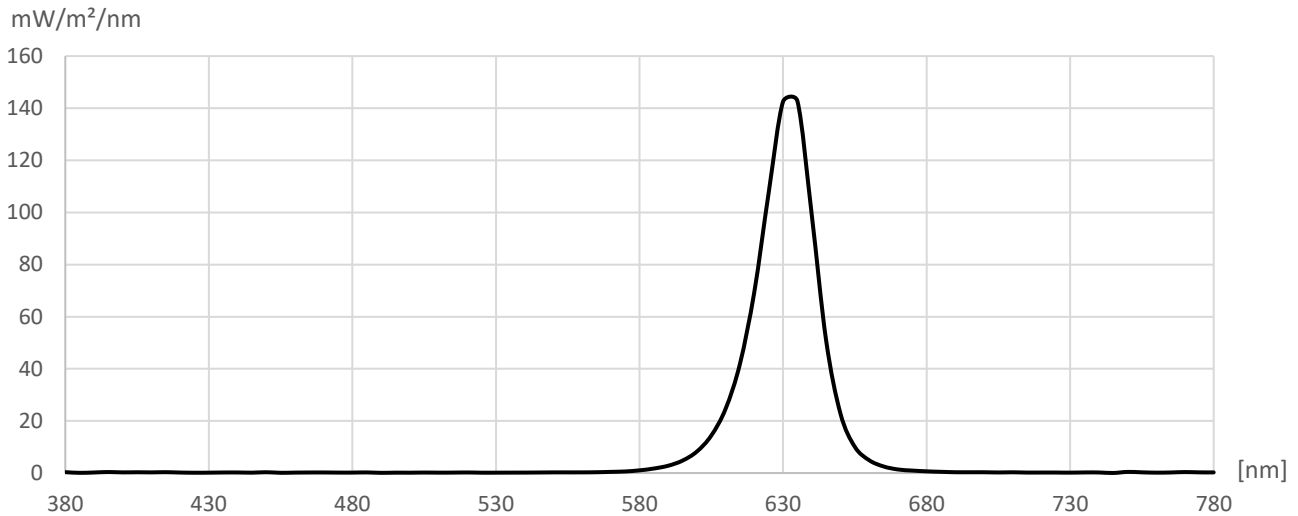


Measurement protocol



Test object: Varytec
 Hero Wash 712 Z RGBW Zoom #449222
 RED @ 1m distance - Zoom open

Measurement file: 10-20-04.CSV
 Date of measurement: 20.10.2023
 Time of measurement: 10:20:04



R1 = -	Ra = -	Illuminance	731,7 lx	CIE1931
R2 = -	Re = -	Ee	3,849 W/m ²	x = 0,6892
R3 = -	GAI = -	LER	190,1 lm/W	y = 0,3048
R4 = -				
R5 = -		correlated color temperature (CCT)	< 1600 K	CIE1976
R6 = -		Duv	-	u' = 0,5222
R7 = -				v' = 0,5196
R8 = -		Saturation	98,3 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	627 nm	u = 0,5222
R11 = -		Peak wavelength	632 nm	v = 0,3464
R12 = -				
R13 = -		Flicker frequency	% < 1.0 Hz	TM30
R14 = -		Percent Flicker	< 1.0 %	Rf = -
R15 = -		Flicker index	% < 1.0	Rg = -

[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	0,34	440	0,23	500	0,14	560	0,27	620	69,54	680	0,66	740	0,23
385	0,08	445	0,15	505	0,20	565	0,32	625	107,62	685	0,47	745	0,03
390	0,22	450	0,33	510	0,16	570	0,45	630	142,52	690	0,33	750	0,45
395	0,40	455	0,10	515	0,17	575	0,61	635	142,75	695	0,31	755	0,28
400	0,26	460	0,17	520	0,23	580	1,04	640	99,06	700	0,31	760	0,16
405	0,31	465	0,22	525	0,14	585	1,73	645	50,94	705	0,23	765	0,22
410	0,26	470	0,23	530	0,15	590	2,81	650	22,80	710	0,30	770	0,39
415	0,34	475	0,18	535	0,17	595	4,78	655	10,07	715	0,19	775	0,27
420	0,20	480	0,18	540	0,18	600	8,26	660	4,93	720	0,20	780	0,25
425	0,13	485	0,25	545	0,21	605	14,37	665	2,53	725	0,20		
430	0,14	490	0,09	550	0,26	610	24,66	670	1,38	730	0,15		
435	0,22	495	0,16	555	0,27	615	41,95	675	0,96	735	0,24		

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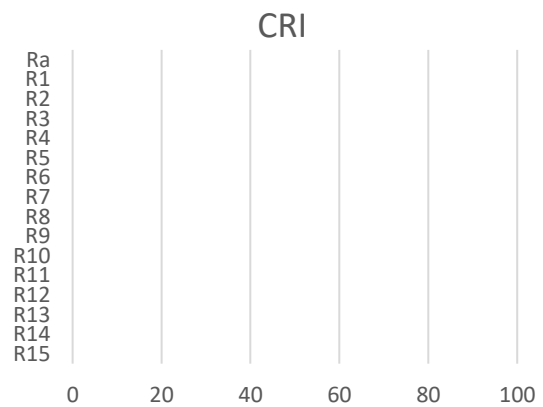
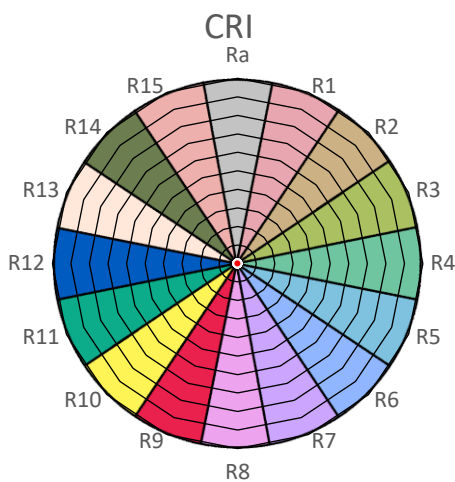
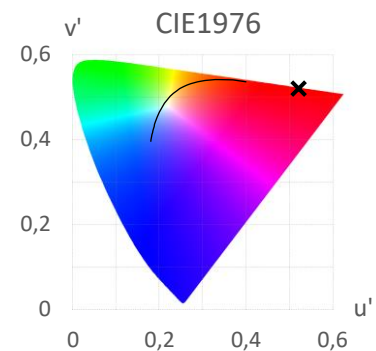
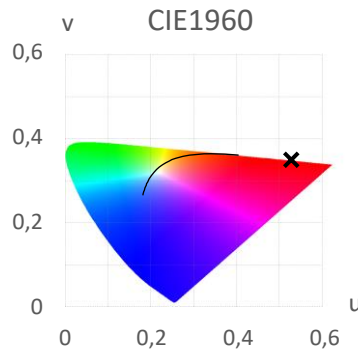
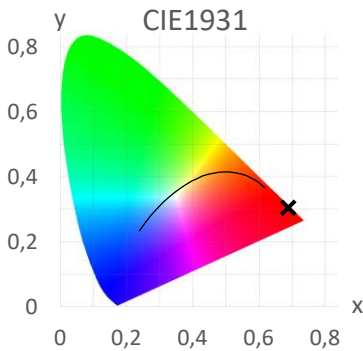
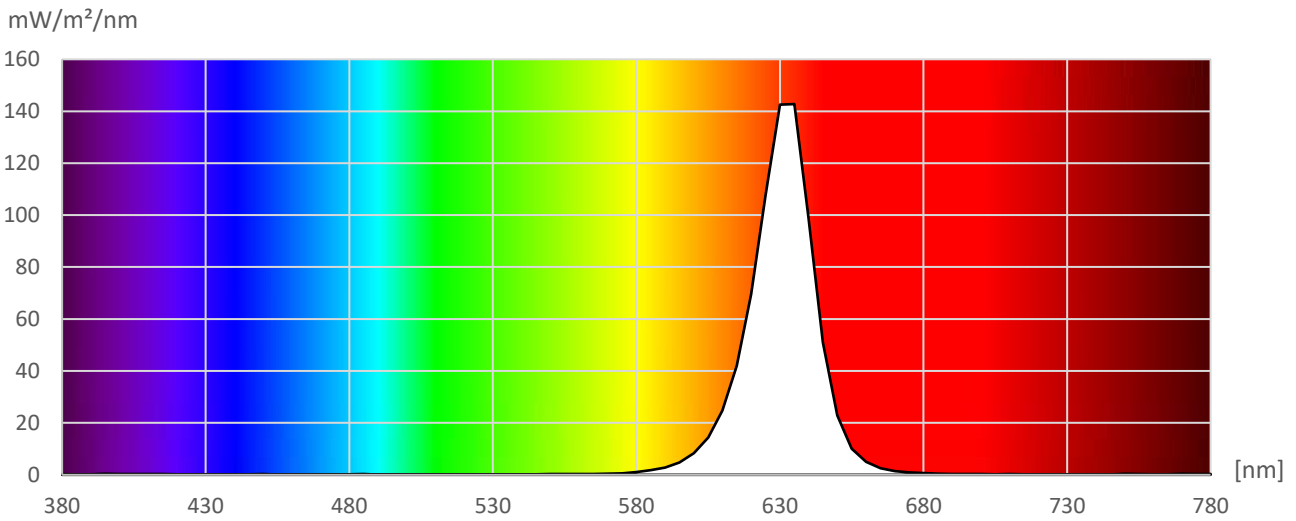
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 712 Z RGBW Zoom #449222
 RED @ 1m distance - Zoom open

Measurement file: 10-20-04.CSV
 Date of measurement: 20.10.2023
 Time of measurement: 10:20:04



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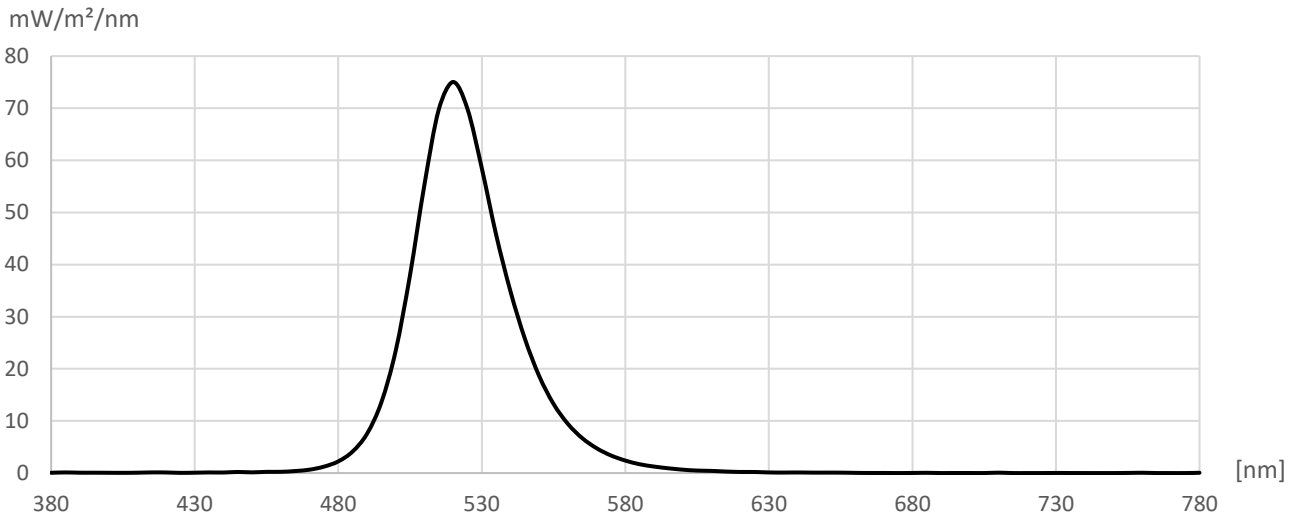
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 712 Z RGBW Zoom #449222
 GREEN @ 1m distance - Zoom open

Measurement file: 10-20-36.CSV
 Date of measurement: 20.10.2023
 Time of measurement: 10:20:36



R1 = -35,7	Ra = -23,9	Illuminance	1441,47 lx	CIE1931
R2 = -8,1	Re = -54,7	Ee	2,966 W/m²	x = 0,1659
R3 = -20,9	GAI = 0,7	LER	485,9 lm/W	y = 0,7248
R4 = -63,5				
R5 = -9,7		correlated color temperature (CCT)	7886 K	CIE1976
R6 = -15,5		Duv	0,1591	u' = 0,0584
R7 = -5,7				v' = 0,5739
R8 = -32,3		Saturation	77,9 %	
R9 = #####				CIE1960
R10 = #####		Dominant wavelength	523 nm	u = 0,0584
R11 = -93,2		Peak wavelength	519 nm	v = 0,3826
R12 = -31,4				
R13 = -41,1		Flicker frequency	% < 1.0 Hz	TM30
R14 = 39,8		Percent Flicker	< 1.0 %	Rf = 0,8
R15 = -39,1		Flicker index	% < 1.0	Rg = 8,6

[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	0,05	440	0,10	500	23,42	560	9,43	620	0,21	680	0,02	740	0,00
385	0,12	445	0,21	505	37,96	565	6,69	625	0,21	685	0,05	745	0,00
390	0,07	450	0,13	510	55,24	570	4,76	630	0,12	690	0,00	750	0,00
395	0,07	455	0,23	515	69,70	575	3,38	635	0,09	695	0,01	755	0,03
400	0,05	460	0,24	520	75,03	580	2,40	640	0,11	700	0,01	760	0,06
405	0,04	465	0,39	525	69,89	585	1,69	645	0,08	705	0,00	765	0,00
410	0,07	470	0,65	530	58,51	590	1,25	650	0,08	710	0,07	770	0,00
415	0,12	475	1,23	535	45,72	595	0,91	655	0,08	715	0,00	775	0,00
420	0,11	480	2,23	540	34,84	600	0,65	660	0,04	720	0,00	780	0,05
425	0,04	485	4,13	545	25,80	605	0,48	665	0,02	725	0,00		
430	0,07	490	7,52	550	18,60	610	0,42	670	0,02	730	0,02		
435	0,12	495	13,53	555	13,26	615	0,29	675	0,00	735	0,01		

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Burgebrach, 20.10.2023

First, last name of inspector

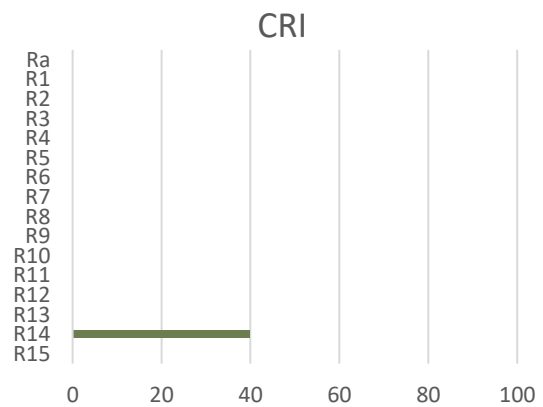
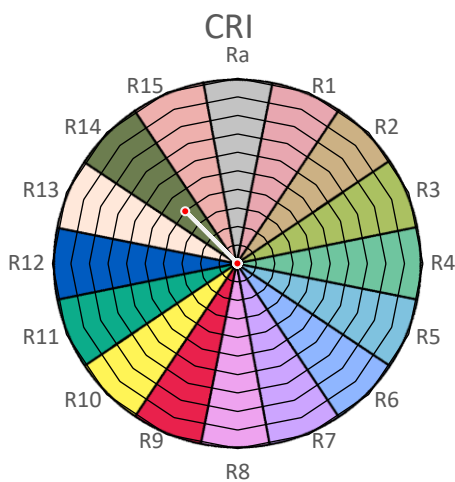
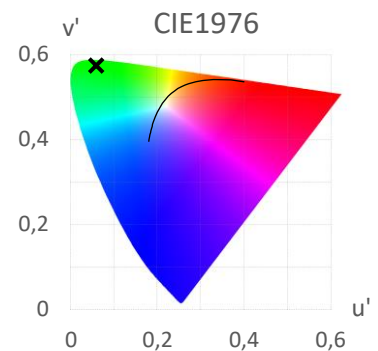
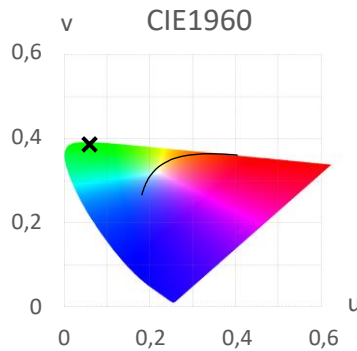
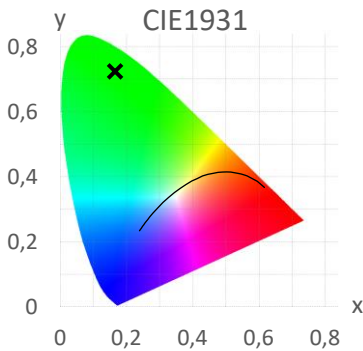
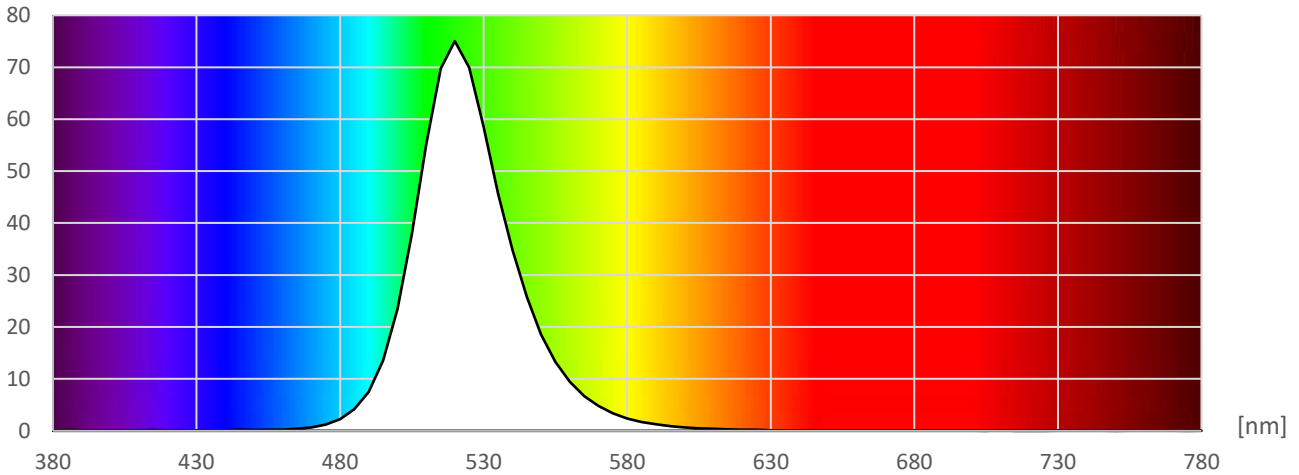
Measurement protocol



Test object: Varytec
 Hero Wash 712 Z RGBW Zoom #449222
 GREEN @ 1m distance - Zoom open

Measurement file: 10-20-36.CSV
 Date of measurement: 20.10.2023
 Time of measurement: 10:20:36

mW/m²/nm



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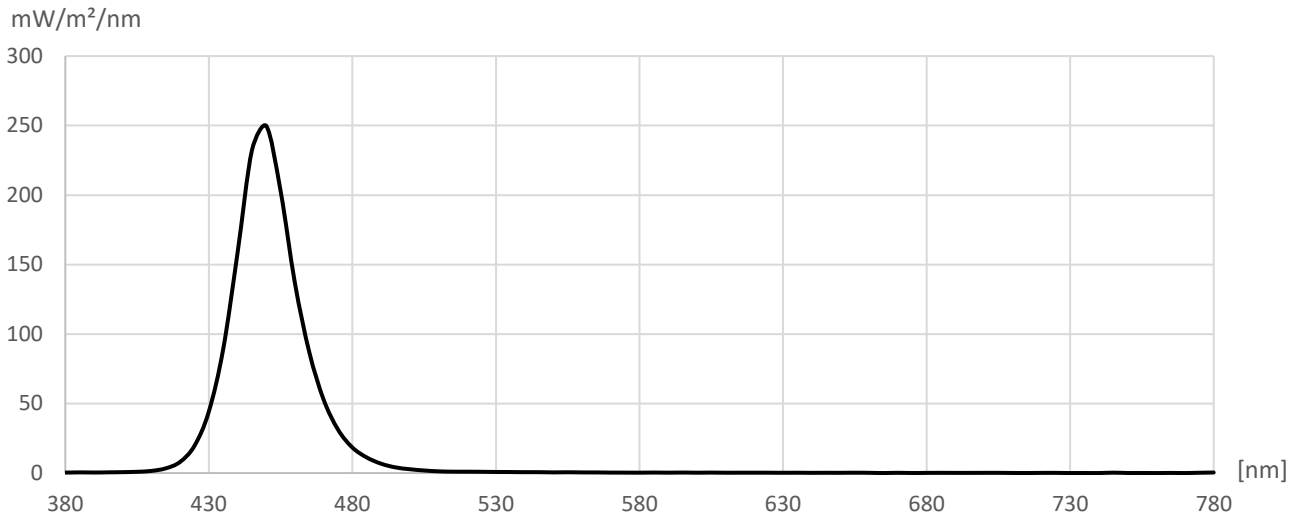
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 712 Z RGBW Zoom #449222
 BLUE @ 1m distance - Zoom open

Measurement file: 10-21-16.CSV
 Date of measurement: 20.10.2023
 Time of measurement: 10:21:16



R1 = -	Ra = -	Illuminance	251,1 lx	CIE1931
R2 = -	Re = -	Ee	6,906 W/m ²	x = 0,1548
R3 = -	GAI = -	LER	36,4 lm/W	y = 0,0271
R4 = -				
R5 = -		correlated color temperature (CCT)	> 50000 K	CIE1976
R6 = -		Duv	-	u' = 0,2048
R7 = -				v' = 0,0810
R8 = -		Saturation	98,1 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	439 nm	u = 0,2048
R11 = -		Peak wavelength	449 nm	v = 0,0540
R12 = -				
R13 = -		Flicker frequency	% < 1.0 Hz	TM30
R14 = -		Percent Flicker	< 1.0 %	Rf = -
R15 = -		Flicker index	% < 1.0	Rg = -

[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	0,33	440	158,41	500	2,76	560	0,46	620	0,25	680	0,12	740	0,00
385	0,49	445	232,10	505	1,85	565	0,45	625	0,25	685	0,17	745	0,28
390	0,40	450	249,72	510	1,23	570	0,34	630	0,20	690	0,13	750	0,05
395	0,52	455	202,86	515	1,00	575	0,32	635	0,23	695	0,13	755	0,07
400	0,66	460	136,45	520	0,96	580	0,27	640	0,17	700	0,16	760	0,00
405	0,92	465	86,88	525	0,91	585	0,38	645	0,19	705	0,16	765	0,10
410	1,55	470	52,73	530	0,78	590	0,28	650	0,18	710	0,07	770	0,00
415	3,39	475	31,22	535	0,74	595	0,37	655	0,26	715	0,03	775	0,22
420	8,05	480	18,37	540	0,63	600	0,26	660	0,17	720	0,13	780	0,39
425	19,65	485	11,21	545	0,65	605	0,34	665	0,02	725	0,15		
430	44,25	490	6,73	550	0,49	610	0,25	670	0,18	730	0,02		
435	89,16	495	4,08	555	0,58	615	0,25	675	0,04	735	0,05		

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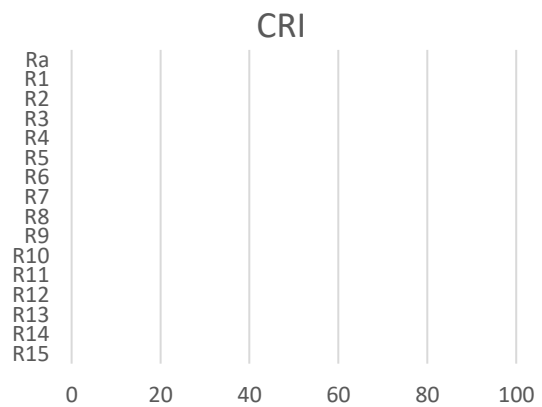
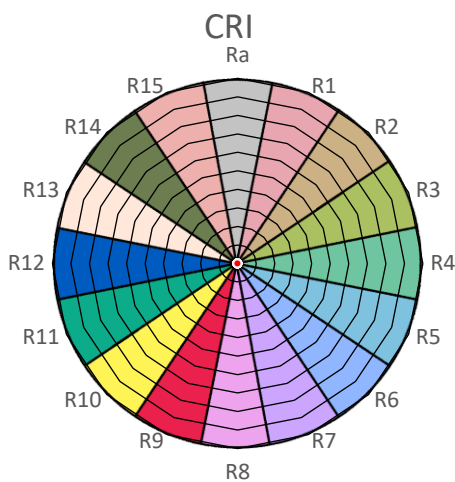
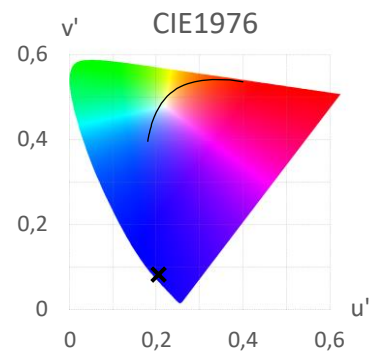
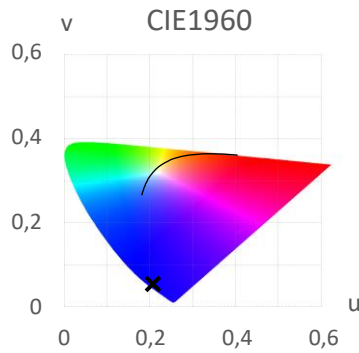
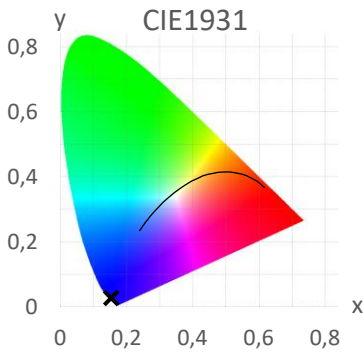
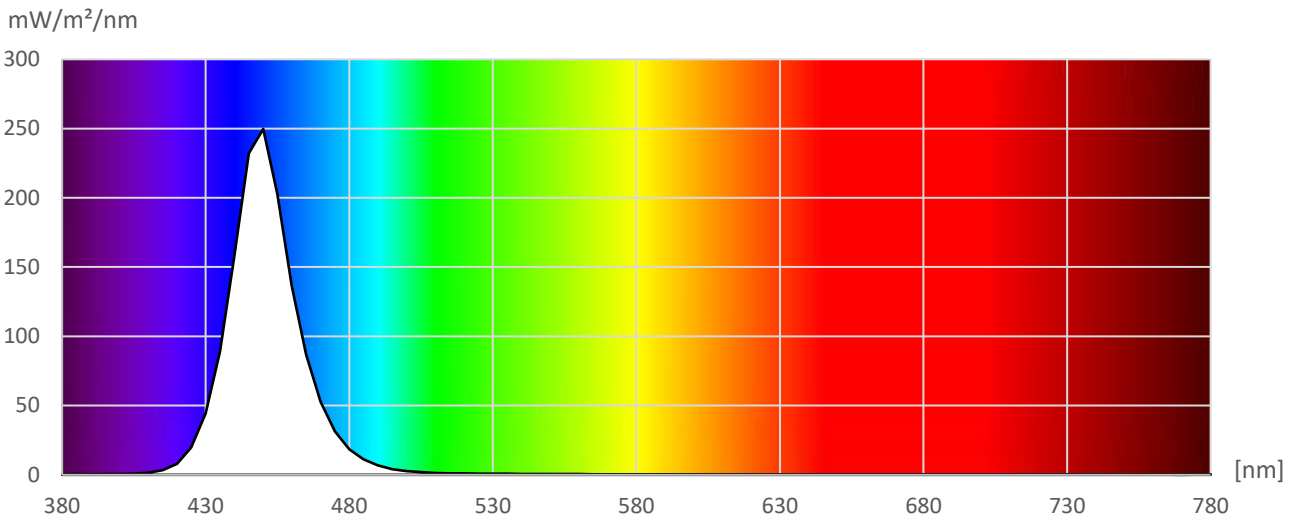
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 712 Z RGBW Zoom #449222
 BLUE @ 1m distance - Zoom open

Measurement file: 10-21-16.CSV
 Date of measurement: 20.10.2023
 Time of measurement: 10:21:16

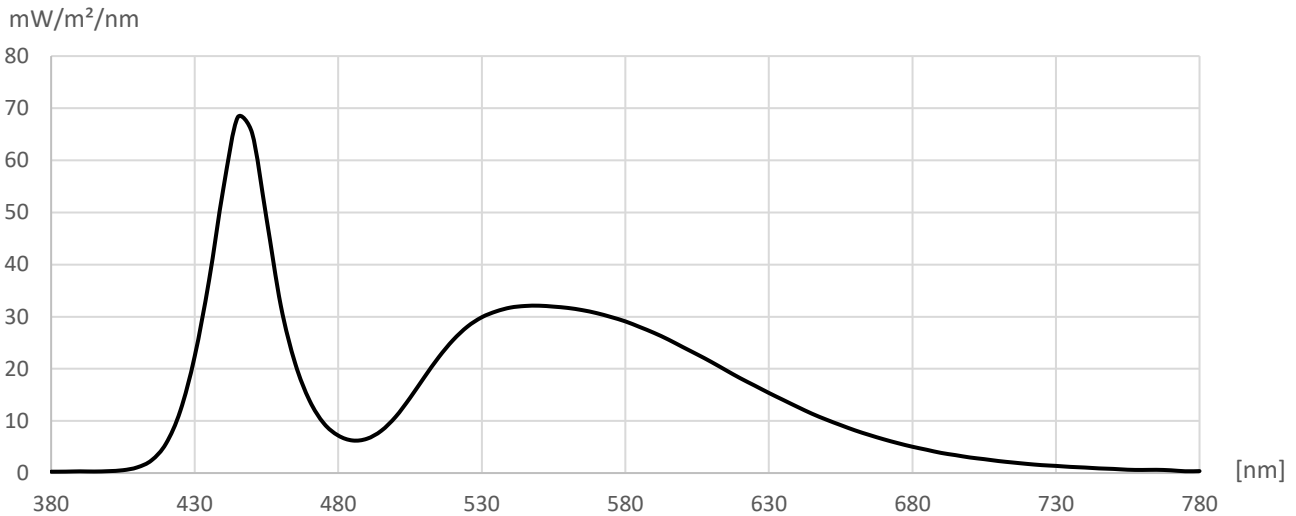


Measurement protocol



Test object: Varytec
 Hero Wash 712 Z RGBW Zoom #449222
 WHITE @ 1m distance - Zoom open

Measurement file: 10-21-53.CSV
 Date of measurement: 20.10.2023
 Time of measurement: 10:21:53



R1 = 73,6	Ra = 72,6	Illuminance	1890,91 lx	CIE1931
R2 = 74,6	Re = 63,3	Ee	6,139 W/m ²	x = 0,3064
R3 = 71,5	GAI = 91,9	LER	308,0 lm/W	y = 0,3120
R4 = 75,5				
R5 = 74,1		correlated color temperature (CCT)	7057 K	CIE1976
R6 = 64,8		Duv	-0,0024	u' = 0,1999
R7 = 79,6				v' = 0,4580
R8 = 67,0		Saturation	11,1 %	
R9 = -10,7				CIE1960
R10 = 36,2		Dominant wavelength	477 nm	u = 0,1999
R11 = 73,9		Peak wavelength	447 nm	v = 0,3053
R12 = 41,7				
R13 = 72,6		Flicker frequency	% < 1.0 Hz	TM30
R14 = 83,6		Percent Flicker	< 1.0 %	Rf = 66,9
R15 = 70,7		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	0,26	440	54,61	500	10,80	560	31,68	620	18,21	680	5,05	740	1,06
385	0,27	445	68,25	505	14,41	565	31,26	625	16,80	685	4,46	745	0,89
390	0,33	450	65,23	510	18,39	570	30,69	630	15,37	690	3,87	750	0,79
395	0,29	455	48,93	515	22,22	575	29,94	635	14,02	695	3,44	755	0,64
400	0,37	460	32,12	520	25,51	580	29,10	640	12,69	700	2,99	760	0,59
405	0,54	465	21,06	525	28,10	585	28,03	645	11,39	705	2,67	765	0,62
410	1,09	470	13,93	530	29,89	590	26,90	650	10,25	710	2,31	770	0,53
415	2,45	475	9,52	535	31,01	595	25,61	655	9,20	715	2,02	775	0,34
420	5,64	480	7,20	540	31,75	600	24,17	660	8,19	720	1,75	780	0,38
425	11,94	485	6,25	545	32,05	605	22,77	665	7,30	725	1,52		
430	22,38	490	6,58	550	32,11	610	21,31	670	6,47	730	1,37		
435	36,94	495	8,11	555	31,93	615	19,74	675	5,73	735	1,18		

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Burgebrach, 20.10.2023

First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 712 Z RGBW Zoom #449222
 WHITE @ 1m distance - Zoom open

Measurement file: 10-21-53.CSV
 Date of measurement: 20.10.2023
 Time of measurement: 10:21:53

