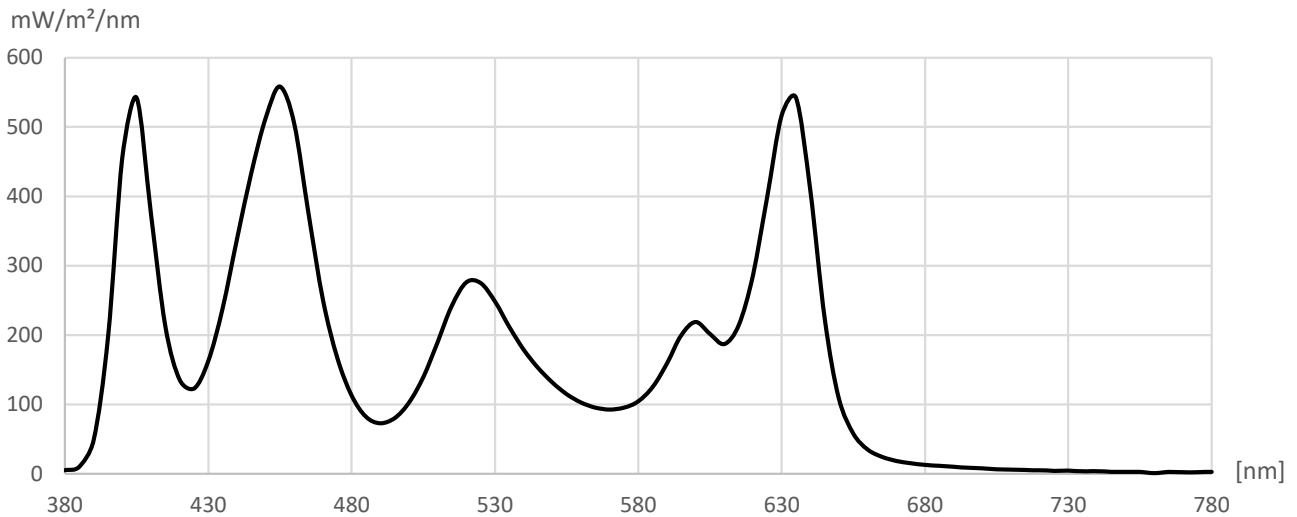


Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 1m / all

Measurement file: 451167_1m_all.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:13:33



R1 = 26,3	Ra = 45,8	Illuminance	13161,9 lx	CIE1931
R2 = 66,1	Re = 30,4	Ee	63,975 W/m ²	x = 0,3115
R3 = 69,5	GAI = 159,1	LER	205,7 lm/W	y = 0,2527
R4 = 22,6				
R5 = 36,6		correlated color temperature (CCT)	8079 K	CIE1976
R6 = 60,2		Duv	-0,0415	u' = 0,2303
R7 = 73,6		Saturation	24,1 %	v' = 0,4205
R8 = 11,6				
R9 = #####				CIE1960
R10 = 40,7		Dominant wavelength	#NV	u = 0,2303
R11 = 3,9		Peak wavelength	403 nm	v = 0,2803
R12 = 60,2				
R13 = 33,2		Flicker frequency	% < 1.0 Hz	TM30
R14 = 75,8		Percent Flicker	< 1.0 %	Rf = 67,9
R15 = 8,4		Flicker index	% < 1.0	Rg = 125,5

[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	5,01	440	338,01	500	102,45	560	102,54	620	287,02	680	12,69	740	3,78
385	10,24	445	433,82	505	139,63	565	95,39	625	399,16	685	11,31	745	2,89
390	48,62	450	513,34	510	190,08	570	92,55	630	516,38	690	9,88	750	2,77
395	197,39	455	558,37	515	242,40	575	95,38	635	542,21	695	8,56	755	2,49
400	454,19	460	504,74	520	275,96	580	104,44	640	408,02	700	7,84	760	0,99
405	542,11	465	374,52	525	275,10	585	125,07	645	223,19	705	6,38	765	2,49
410	375,20	470	250,67	530	248,30	590	159,17	650	108,46	710	6,11	770	2,00
415	212,79	475	166,71	535	211,20	595	199,53	655	58,16	715	5,28	775	2,42
420	135,36	480	112,48	540	179,38	600	218,84	660	35,00	720	4,93	780	2,67
425	123,06	485	82,20	545	152,92	605	201,56	665	24,43	725	4,29		
430	161,96	490	72,94	550	131,75	610	187,04	670	18,48	730	4,35		
435	238,07	495	80,21	555	114,86	615	214,10	675	15,20	735	3,45		

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Burgebrach, 23.03.2021

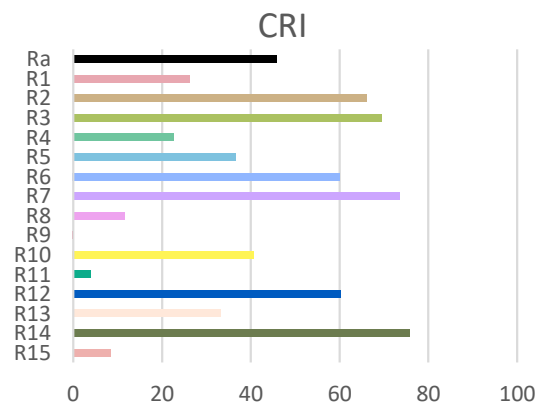
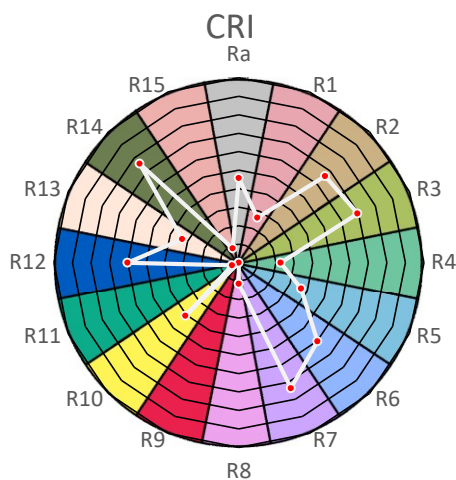
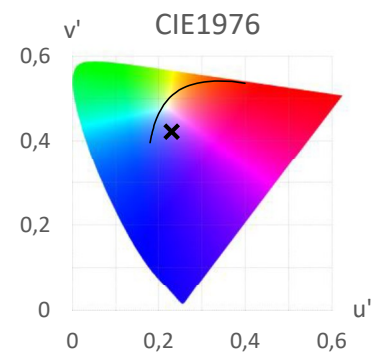
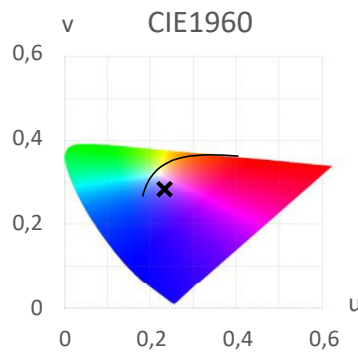
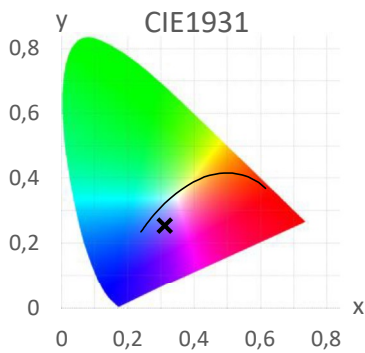
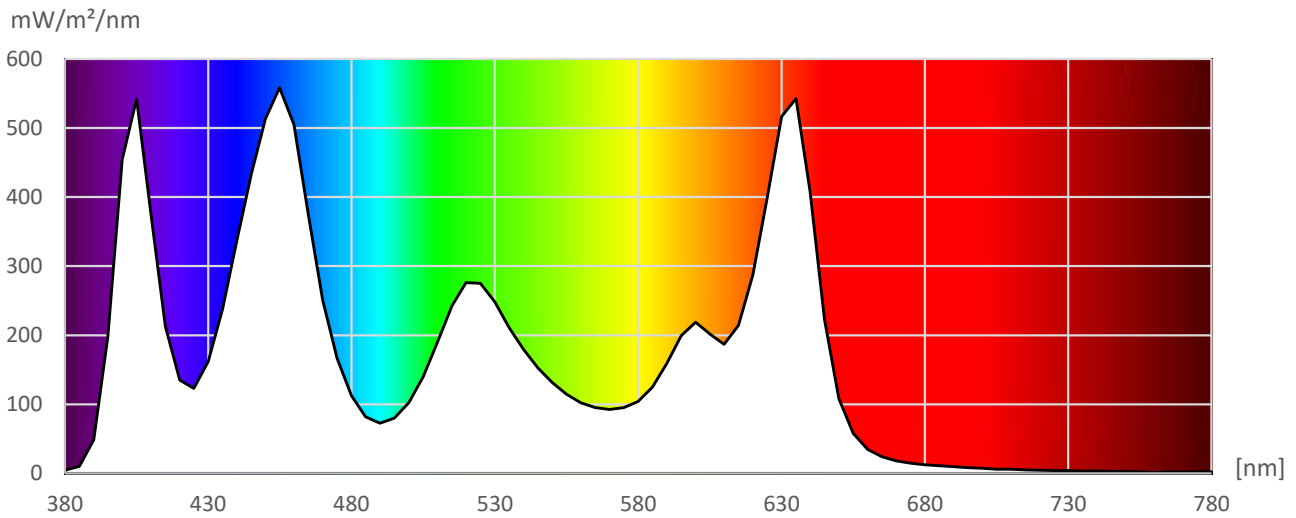
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 1m / all

Measurement file: 451167_1m_all.CS
 Date of measurement: 23.03.2021
 Time of measurement: 16:13:33



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Burgebrach, 23.03.2021

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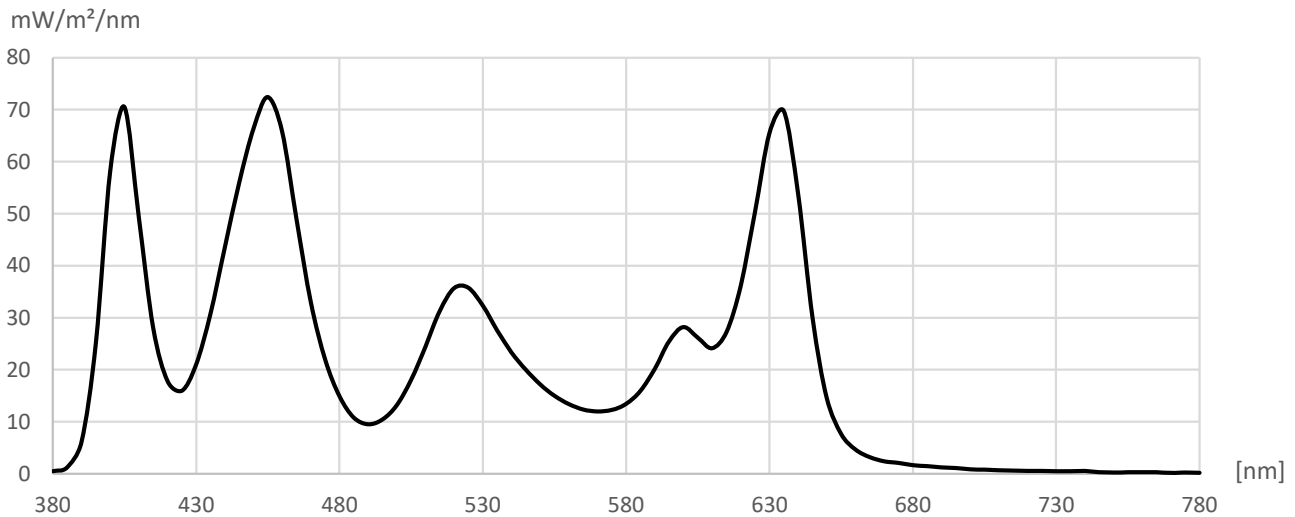
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 3m / all

Measurement file: 451167_3m_all.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:13:46



R1 = 26,6	Ra = 46,1	Illuminance	1700,85 lx	CIE1931
R2 = 66,5	Re = 30,7	Ee	8,280 W/m ²	x = 0,3102
R3 = 69,0	GAI = 158,9	LER	205,4 lm/W	y = 0,2524
R4 = 23,2				
R5 = 37,3		correlated color temperature (CCT)	8280 K	CIE1976
R6 = 61,0		Duv	-0,0408	u' = 0,2294
R7 = 73,4				v' = 0,4200
R8 = 11,5		Saturation	24,3 %	
R9 = #####				CIE1960
R10 = 41,8		Dominant wavelength	#NV	u = 0,2294
R11 = 4,8		Peak wavelength	403 nm	v = 0,2800
R12 = 61,3				
R13 = 33,6		Flicker frequency	% < 1.0 Hz	TM30
R14 = 75,5		Percent Flicker	< 1.0 %	Rf = 68,0
R15 = 8,6		Flicker index	% < 1.0	Rg = 125,4

[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	0,50	440	43,51	500	13,19	560	13,39	620	36,28	680	1,65	740	0,53
385	1,23	445	55,98	505	18,08	565	12,34	625	50,36	685	1,46	745	0,32
390	6,14	450	66,40	510	24,51	570	11,99	630	65,47	690	1,23	750	0,23
395	25,23	455	72,45	515	31,27	575	12,25	635	69,72	695	1,07	755	0,27
400	58,37	460	65,83	520	35,69	580	13,43	640	53,66	700	0,85	760	0,31
405	70,49	465	49,02	525	35,71	585	15,94	645	29,90	705	0,79	765	0,29
410	49,37	470	32,95	530	32,31	590	20,22	650	14,59	710	0,67	770	0,15
415	28,05	475	21,91	535	27,52	595	25,45	655	7,64	715	0,60	775	0,23
420	17,80	480	14,84	540	23,35	600	28,21	660	4,67	720	0,53	780	0,17
425	15,96	485	10,82	545	19,99	605	26,15	665	3,18	725	0,54		
430	20,95	490	9,54	550	17,19	610	24,16	670	2,40	730	0,48		
435	30,72	495	10,44	555	14,98	615	27,28	675	2,08	735	0,50		

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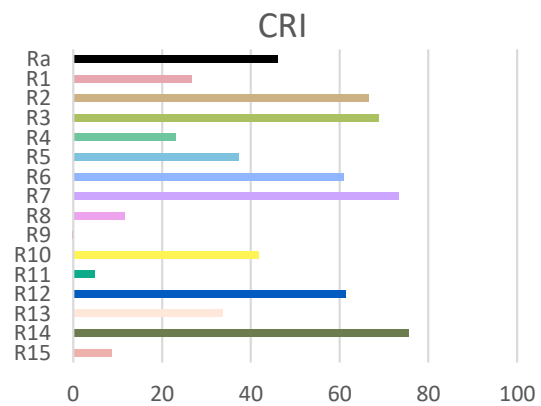
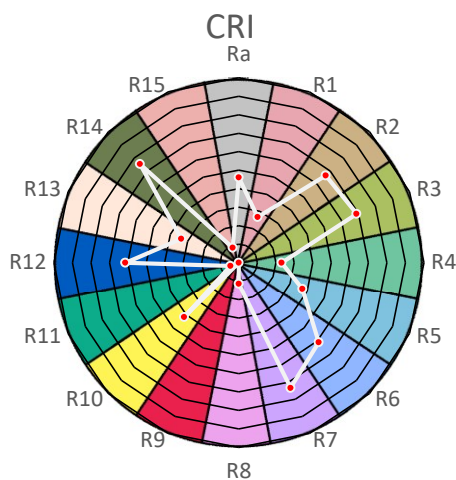
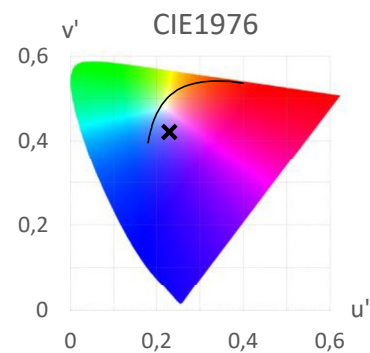
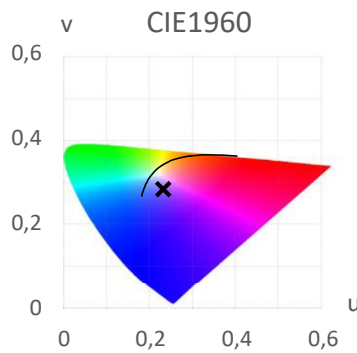
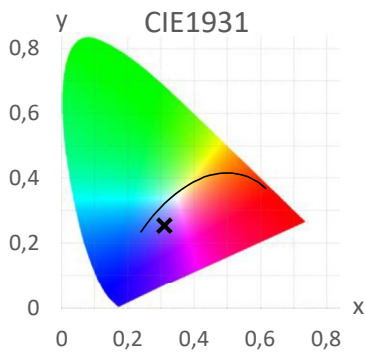
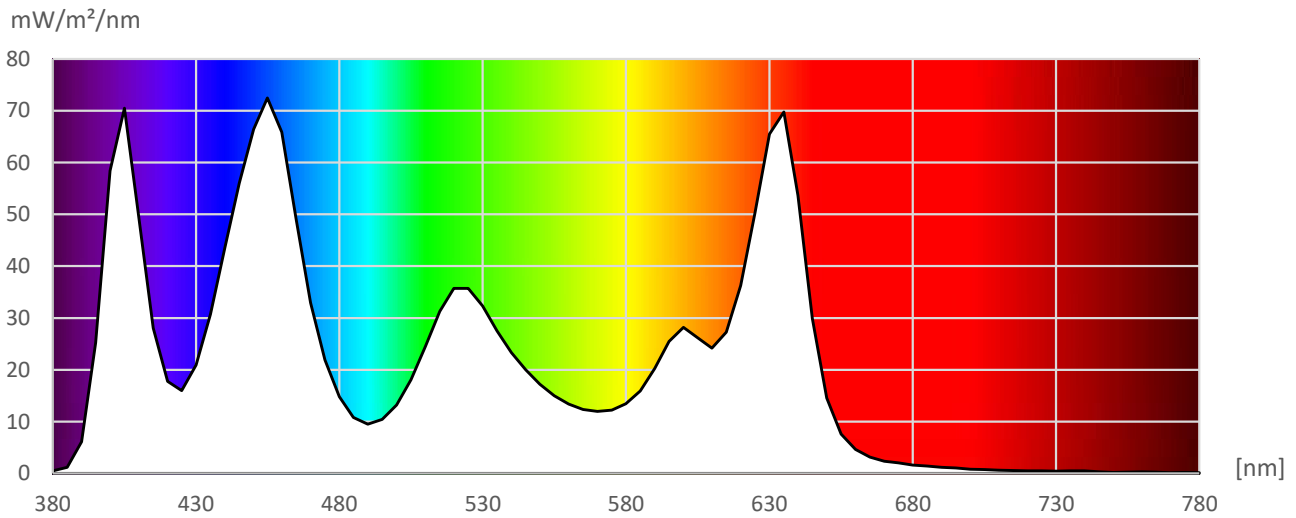
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 3m / all

Measurement file: 451167_3m_all.CS
 Date of measurement: 23.03.2021
 Time of measurement: 16:13:46



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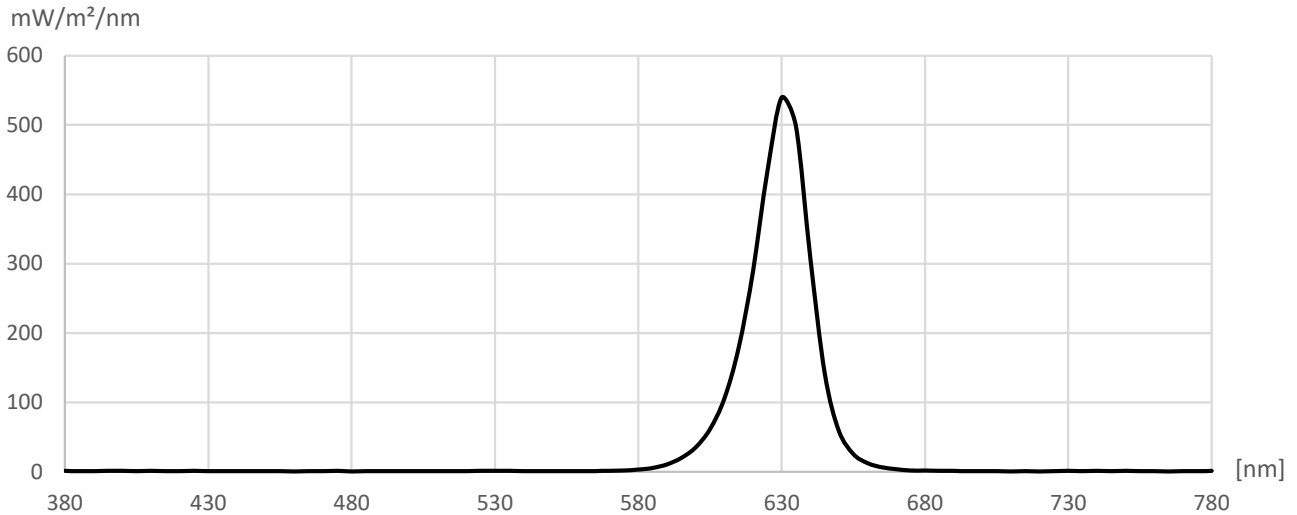
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 1m / red

Measurement file: 451167_1m_r.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:14:03



R1 = -	Ra = -	Illuminance	2794,57 lx	CIE1931
R2 = -	Re = -	Ee	13,970 W/m ²	x = 0,6865
R3 = -	GAI = -	LER	200,0 lm/W	y = 0,3067
R4 = -				
R5 = -		correlated color temperature (CCT)	< 1600 K	CIE1976
R6 = -		Duv	-	u' = 0,5174
R7 = -				v' = 0,5201
R8 = -		Saturation	97,9 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	626 nm	u = 0,5174
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 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	1,18	440	0,73	500	0,80	560	1,01	620	289,56	680	1,62	740	1,13
385	0,69	445	0,75	505	0,90	565	1,06	625	431,04	685	1,40	745	1,03
390	0,95	450	0,81	510	0,76	570	1,35	630	539,25	690	1,11	750	1,19
395	1,14	455	1,01	515	0,98	575	1,93	635	497,89	695	0,88	755	0,91
400	1,10	460	0,57	520	0,97	580	2,97	640	307,84	700	0,81	760	0,96
405	1,04	465	0,92	525	1,33	585	5,32	645	141,73	705	0,80	765	0,58
410	1,17	470	0,84	530	1,33	590	10,64	650	59,00	710	0,55	770	0,83
415	0,97	475	1,11	535	1,18	595	19,76	655	25,65	715	0,83	775	0,67
420	0,81	480	0,59	540	0,91	600	34,76	660	12,43	720	0,51	780	1,12
425	1,14	485	0,77	545	1,04	605	61,26	665	6,39	725	0,97		
430	0,81	490	0,89	550	0,98	610	105,36	670	3,63	730	1,09		
435	0,66	495	0,71	555	0,95	615	178,95	675	1,83	735	0,99		

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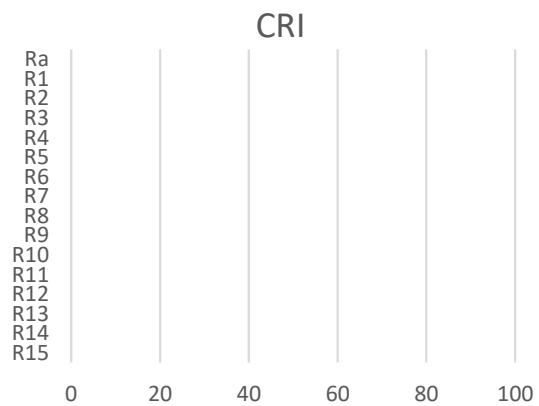
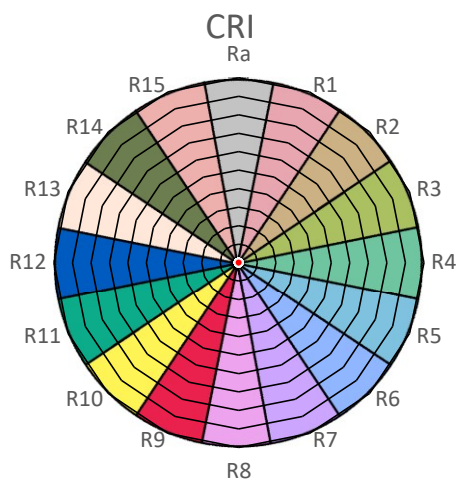
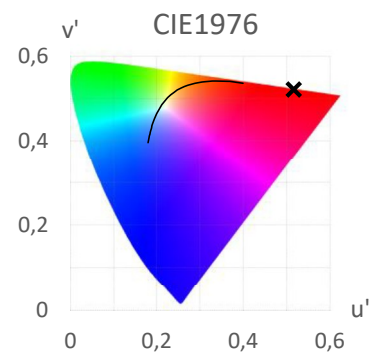
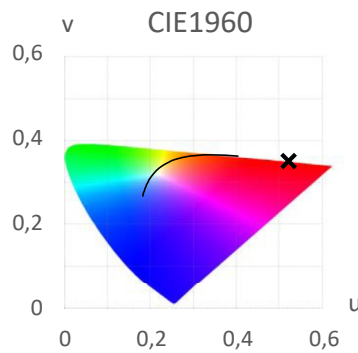
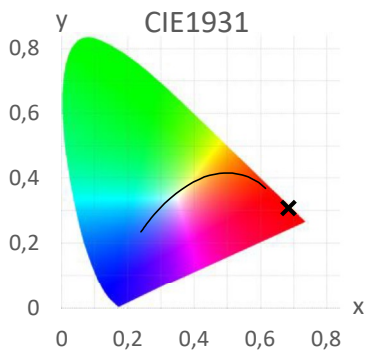
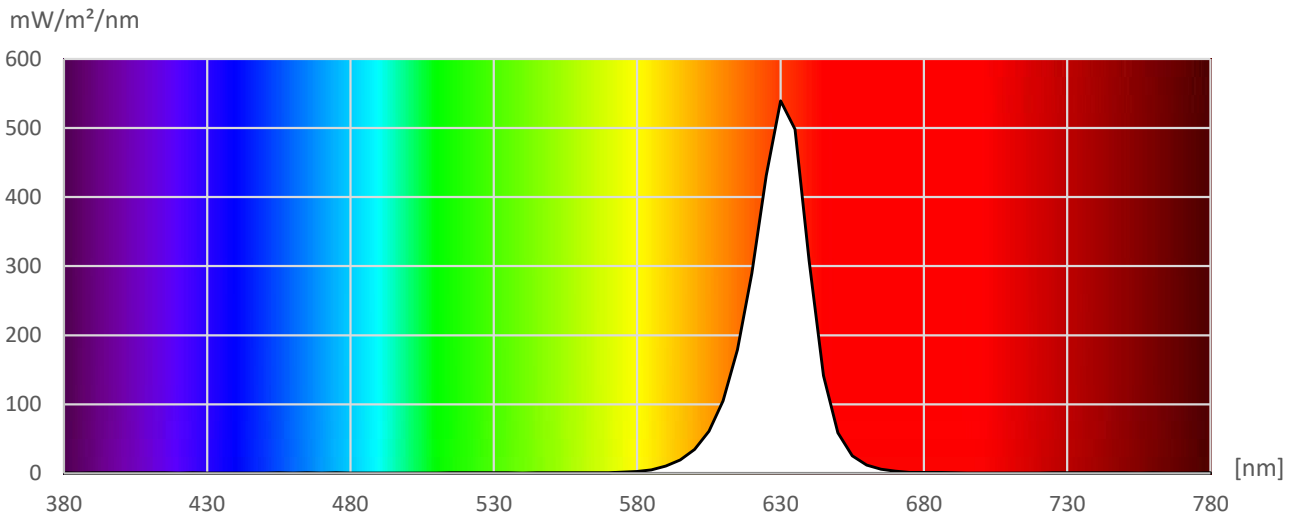
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 1m / red

Measurement file: 451167_1m_r.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:14:03



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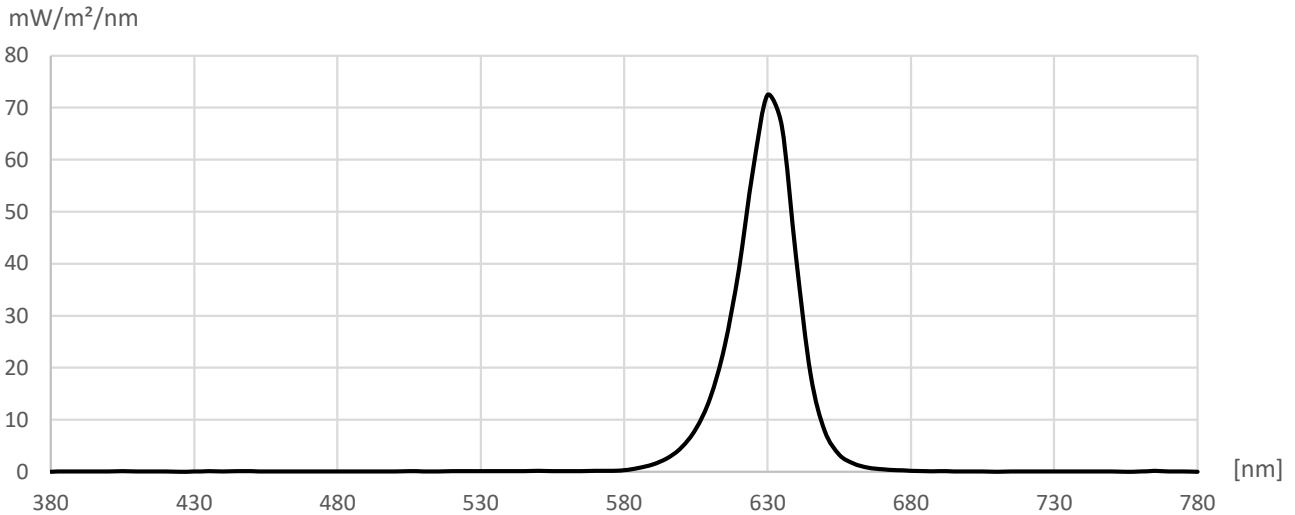
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 3m / red

Measurement file: 451167_3m_r.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:14:13



R1 = -	Ra = -	Illuminance	372,3 lx	CIE1931
R2 = -	Re = -	Ee	1,851 W/m ²	x = 0,6894
R3 = -	GAI = -	LER	201,1 lm/W	y = 0,3067
R4 = -				
R5 = -		correlated color temperature (CCT)	< 1600 K	CIE1976
R6 = -		Duv	-	u' = 0,5201
R7 = -				v' = 0,5207
R8 = -		Saturation	98,7 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	626 nm	u = 0,5201
R11 = -		Peak wavelength	630 nm	v = 0,3471
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	0,01	440	0,06	500	0,03	560	0,09	620	38,94	680	0,18	740	0,05
385	0,04	445	0,09	505	0,11	565	0,10	625	58,04	685	0,09	745	0,03
390	0,04	450	0,09	510	0,08	570	0,16	630	72,39	690	0,09	750	0,06
395	0,07	455	0,06	515	0,05	575	0,17	635	66,48	695	0,08	755	0,00
400	0,05	460	0,07	520	0,11	580	0,27	640	40,93	700	0,07	760	0,04
405	0,09	465	0,04	525	0,13	585	0,74	645	18,70	705	0,06	765	0,14
410	0,04	470	0,08	530	0,10	590	1,40	650	7,84	710	0,01	770	0,07
415	0,05	475	0,03	535	0,14	595	2,59	655	3,33	715	0,07	775	0,05
420	0,04	480	0,06	540	0,09	600	4,64	660	1,58	720	0,05	780	0,00
425	0,02	485	0,07	545	0,11	605	8,19	665	0,81	725	0,08		
430	0,02	490	0,05	550	0,15	610	14,18	670	0,45	730	0,06		
435	0,08	495	0,04	555	0,11	615	24,10	675	0,31	735	0,03		

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Burgebrach, 23.03.2021

First, last name of inspector

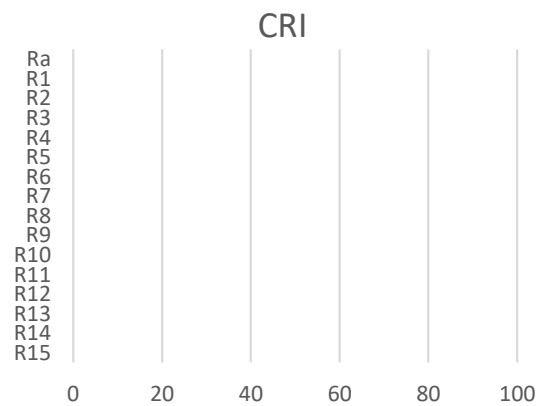
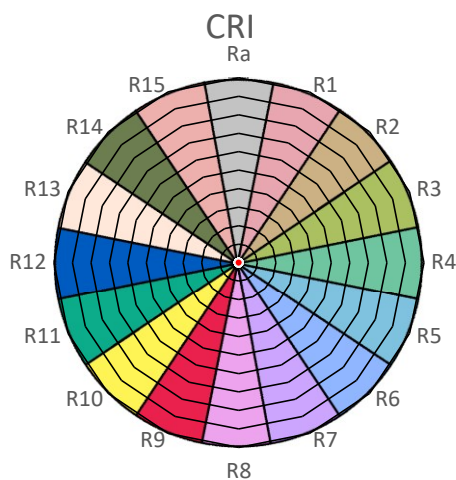
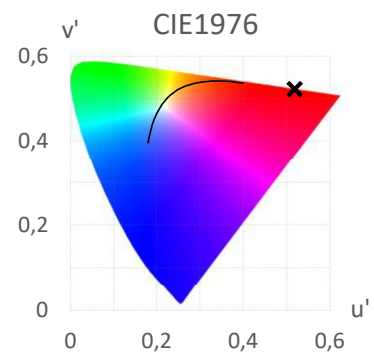
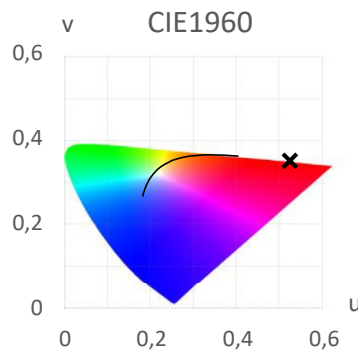
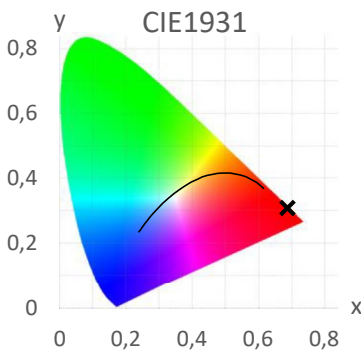
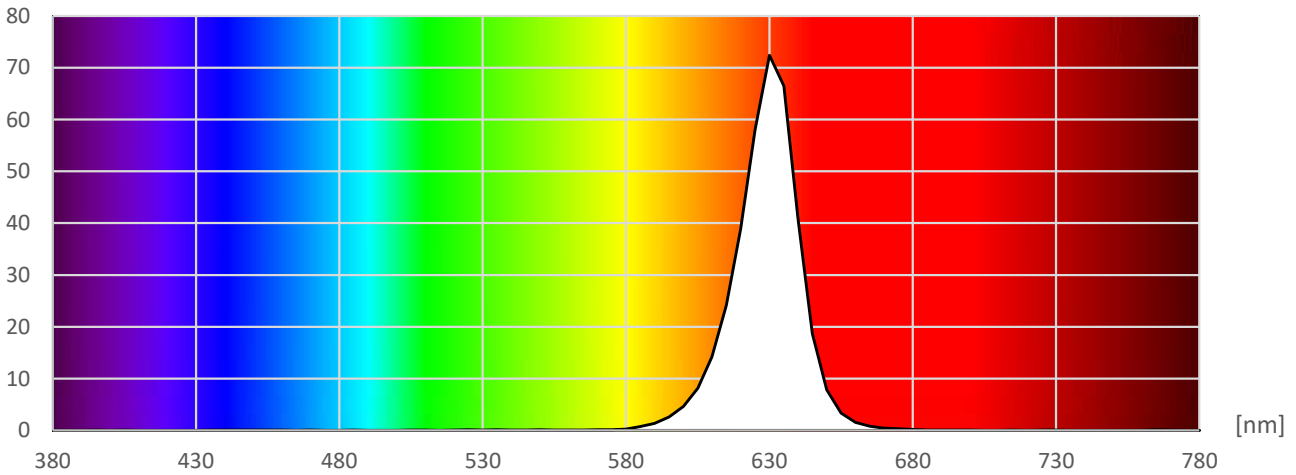
Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 3m / red

Measurement file: 451167_3m_r.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:14:13

mW/m²/nm



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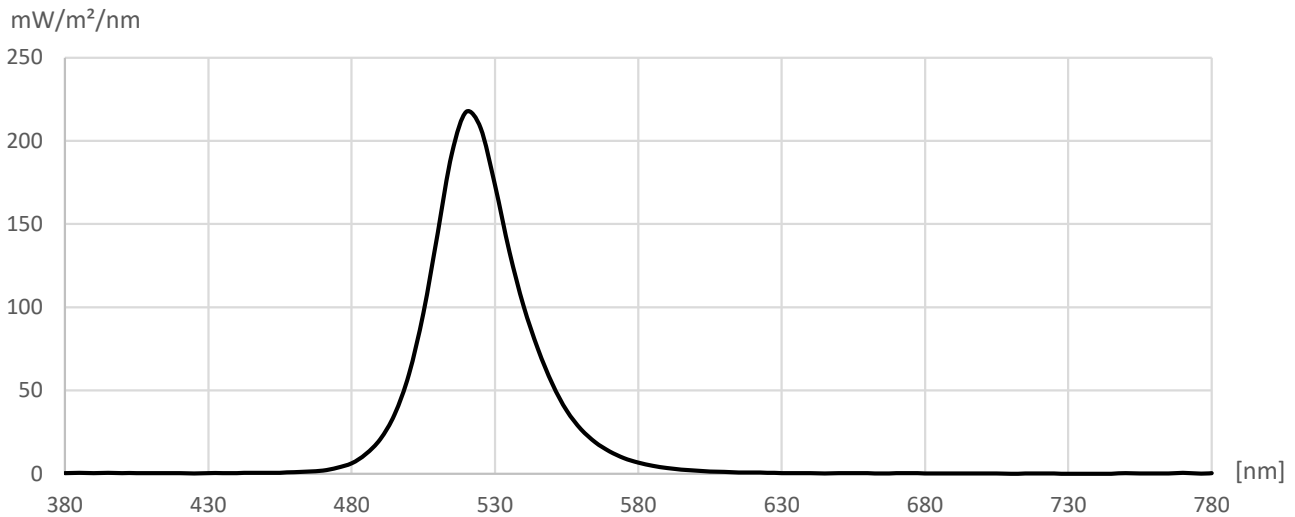
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 1m / green

Measurement file: 451167_1m_gr.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:14:44



R1 = -36,0	Ra = -23,1	Illuminance	4119,18 lx	CIE1931
R2 = -7,6	Re = -54,1	Ee	8,405 W/m ²	x = 0,1680
R3 = -18,8	GAI = 0,7	LER	490,1 lm/W	y = 0,7261
R4 = -62,3				
R5 = -10,0		correlated color temperature (CCT)	7846 K	CIE1976
R6 = -15,2		Duv	0,1586	u' = 0,0591
R7 = -3,5				v' = 0,5744
R8 = -31,3		Saturation	78,8 %	
R9 = #####				CIE1960
R10 = #####		Dominant wavelength	524 nm	u = 0,0591
R11 = -92,1		Peak wavelength	522 nm	v = 0,3829
R12 = -31,3				
R13 = -41,2		Flicker frequency	% < 1.0 Hz	TM30
R14 = 40,8		Percent Flicker	< 1.0 %	Rf = 0,9
R15 = -39,0		Flicker index	% < 1.0	Rg = 8,9

[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	0,42	500	59,83	560	26,70	620	0,69	680	0,25	740	0,03
385	0,52	445	0,53	505	96,58	565	18,93	625	0,61	685	0,12	745	0,05
390	0,36	450	0,49	510	144,72	570	13,45	630	0,45	690	0,14	750	0,40
395	0,47	455	0,63	515	192,42	575	9,44	635	0,32	695	0,12	755	0,11
400	0,43	460	0,97	520	217,56	580	6,67	640	0,33	700	0,21	760	0,21
405	0,44	465	1,28	525	207,62	585	4,76	645	0,24	705	0,18	765	0,14
410	0,29	470	1,94	530	173,29	590	3,49	650	0,29	710	0,03	770	0,60
415	0,38	475	3,67	535	133,44	595	2,49	655	0,33	715	0,08	775	0,10
420	0,40	480	6,35	540	100,98	600	1,88	660	0,26	720	0,12	780	0,27
425	0,13	485	11,82	545	75,02	605	1,39	665	0,09	725	0,07		
430	0,41	490	20,76	550	54,02	610	1,05	670	0,26	730	0,04		
435	0,35	495	35,69	555	37,91	615	0,79	675	0,35	735	0,03		

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Burgebrach, 23.03.2021

First, last name of inspector

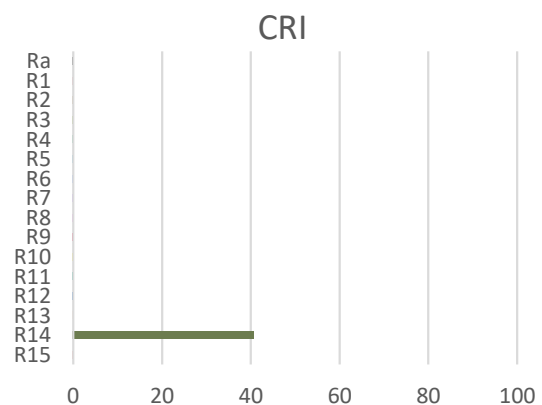
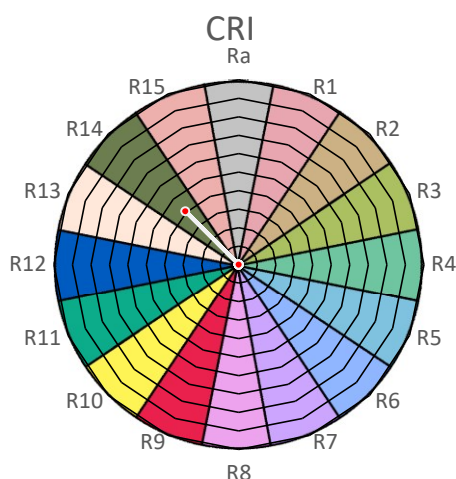
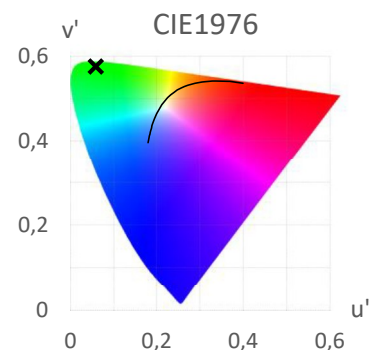
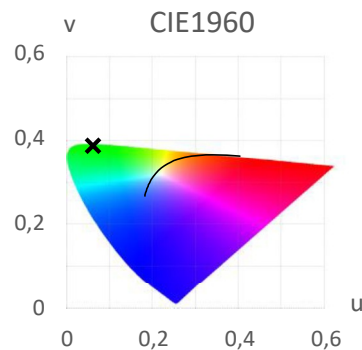
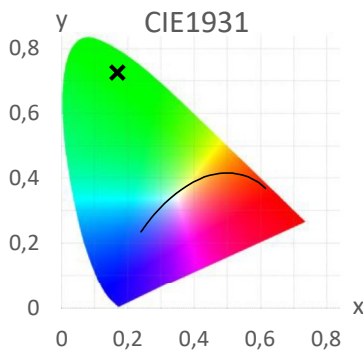
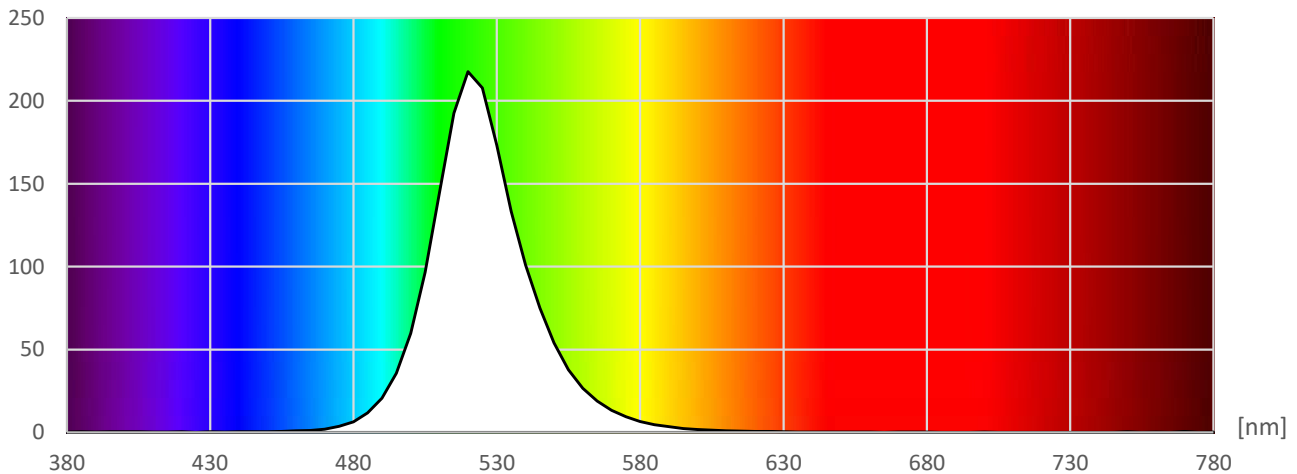
Measurement protocol

th•mann

Test object: Varytec
Hero Wash 715 HEX LED
451167 / 1m / green

Measurement file: 451167_1m_gr.CSV
Date of measurement: 23.03.2021
Time of measurement: 16:14:44

mW/m²/nm



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Burgebrach, 23.03.2021

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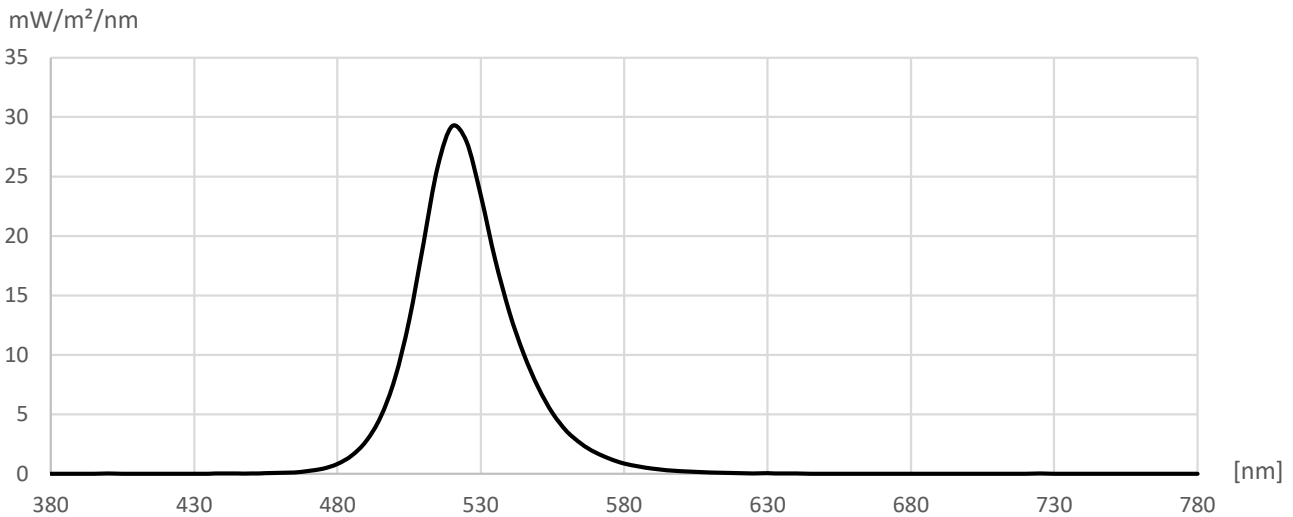
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 3m / green

Measurement file: 451167_3m_gr.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:15:01



R1 = -37,0	Ra = -26,2	Illuminance	552,59 lx	CIE1931
R2 = -10,0	Re = -57,1	Ee	1,118 W/m ²	x = 0,1666
R3 = -23,8	GAI = 0,5	LER	494,3 lm/W	y = 0,7310
R4 = -66,6				
R5 = -10,9		correlated color temperature (CCT)	7844 K	CIE1976
R6 = -17,3		Duv	0,1596	u' = 0,0583
R7 = -9,2				v' = 0,5751
R8 = -34,8		Saturation	79,7 %	
R9 = #####				CIE1960
R10 = #####		Dominant wavelength	524 nm	u = 0,0583
R11 = -96,6		Peak wavelength	522 nm	v = 0,3834
R12 = -33,2				
R13 = -42,6		Flicker frequency	% < 1.0 Hz	TM30
R14 = 38,4		Percent Flicker	< 1.0 %	Rf = 0,6
R15 = -40,3		Flicker index	% < 1.0	Rg = 7,1

[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	0,00	440	0,01	500	7,99	560	3,56	620	0,05	680	0,00	740	0,00
385	0,00	445	0,01	505	12,93	565	2,52	625	0,03	685	0,00	745	0,00
390	0,00	450	0,01	510	19,42	570	1,78	630	0,04	690	0,00	750	0,00
395	0,00	455	0,04	515	25,83	575	1,26	635	0,02	695	0,00	755	0,00
400	0,01	460	0,08	520	29,25	580	0,86	640	0,02	700	0,00	760	0,00
405	0,00	465	0,11	525	27,95	585	0,61	645	0,00	705	0,00	765	0,00
410	0,00	470	0,23	530	23,37	590	0,43	650	0,00	710	0,00	770	0,00
415	0,00	475	0,44	535	17,97	595	0,30	655	0,00	715	0,00	775	0,00
420	0,00	480	0,83	540	13,58	600	0,22	660	0,00	720	0,00	780	0,00
425	0,00	485	1,52	545	10,07	605	0,15	665	0,00	725	0,02		
430	0,00	490	2,74	550	7,27	610	0,11	670	0,00	730	0,00		
435	0,01	495	4,74	555	5,11	615	0,07	675	0,00	735	0,00		

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Burgebrach, 23.03.2021

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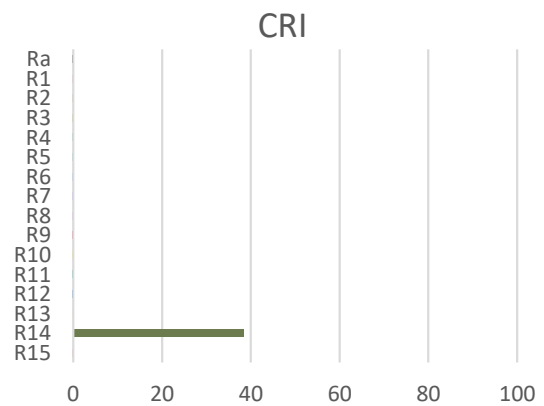
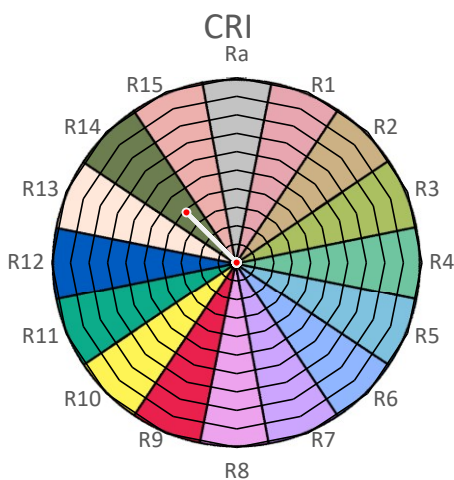
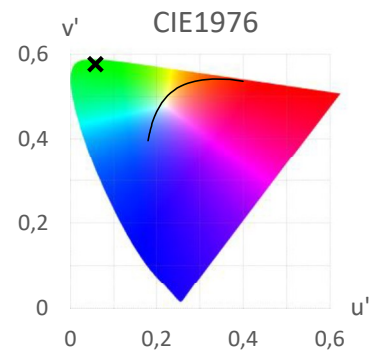
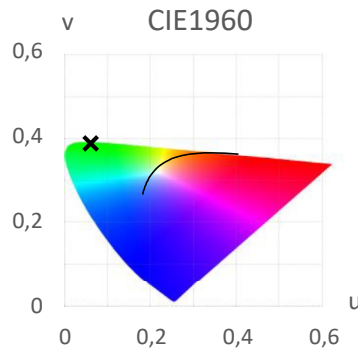
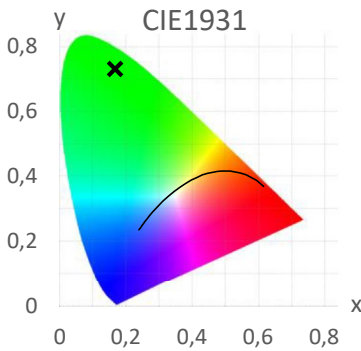
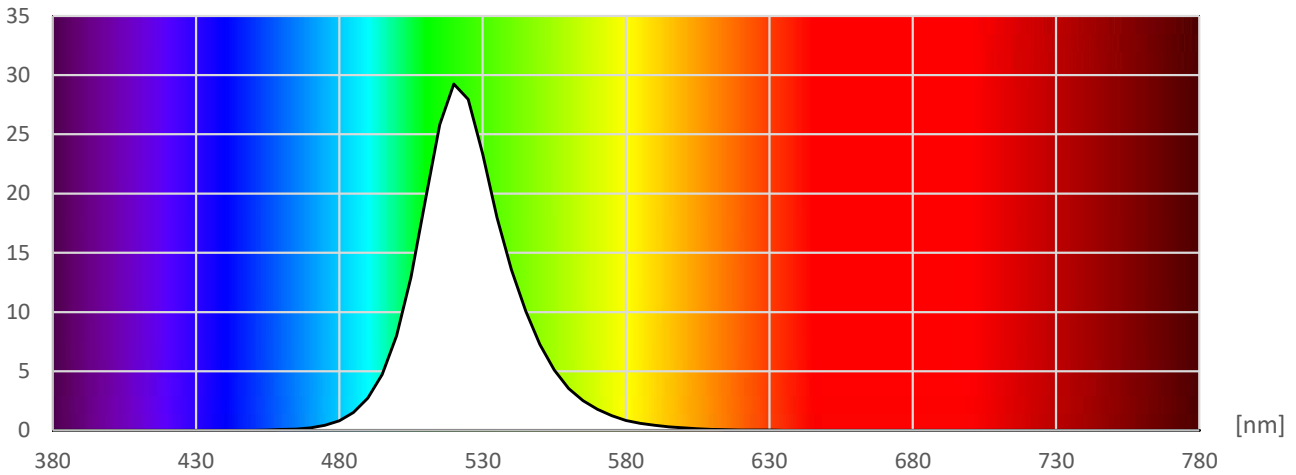
Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 3m / green

Measurement file: 451167_3m_gr.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:15:01

mW/m²/nm



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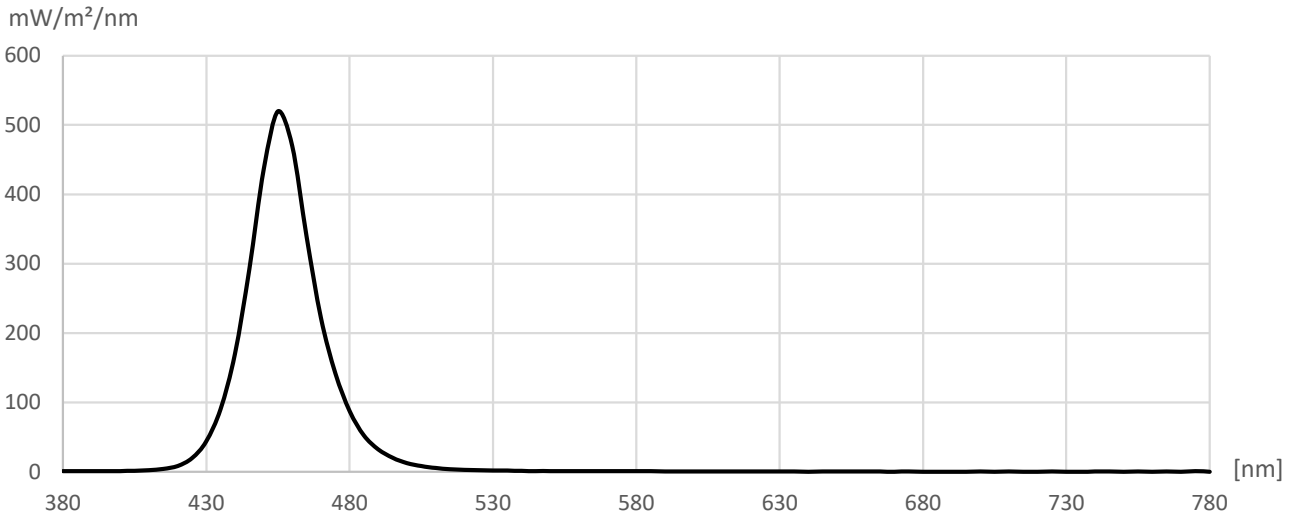
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 1m / blue

Measurement file: 451167_1m_b.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:15:36



R1 = -	Ra = -	Illuminance	712,55 lx	CIE1931
R2 = -	Re = -	Ee	15,066 W/m ²	x = 0,1472
R3 = -	GAI = -	LER	47,3 lm/W	y = 0,0369
R4 = -				
R5 = -		correlated color temperature (CCT)	> 50000 K	CIE1976
R6 = -		Duv	-	u' = 0,1870
R7 = -				v' = 0,1055
R8 = -		Saturation	97,8 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	451 nm	u = 0,1870
R11 = -		Peak wavelength	456 nm	v = 0,0703
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	0,72	440	169,98	500	12,49	560	0,65	620	0,31	680	0,00	740	0,18
385	0,95	445	292,18	505	7,99	565	0,81	625	0,41	685	0,06	745	0,38
390	1,01	450	436,05	510	5,41	570	0,73	630	0,31	690	0,14	750	0,00
395	1,03	455	519,42	515	3,68	575	0,92	635	0,38	695	0,06	755	0,35
400	1,04	460	469,99	520	2,87	580	0,65	640	0,07	700	0,45	760	0,00
405	1,53	465	338,87	525	2,22	585	0,76	645	0,38	705	0,00	765	0,30
410	2,27	470	221,43	530	1,87	590	0,24	650	0,55	710	0,21	770	0,05
415	4,09	475	142,04	535	1,54	595	0,52	655	0,36	715	0,10	775	0,72
420	8,30	480	87,14	540	1,11	600	0,51	660	0,23	720	0,03	780	0,08
425	19,79	485	52,37	545	0,95	605	0,50	665	0,16	725	0,42		
430	43,69	490	32,39	550	1,07	610	0,42	670	0,12	730	0,05		
435	90,38	495	20,02	555	0,88	615	0,53	675	0,35	735	0,04		

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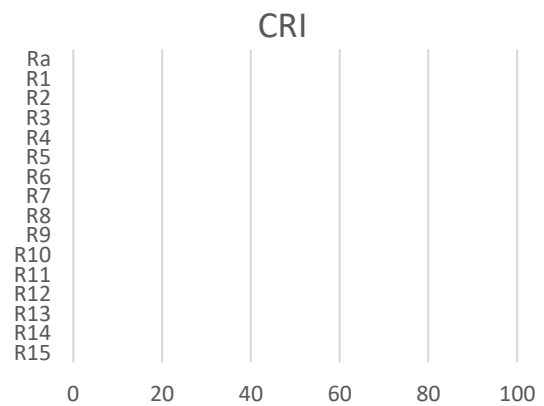
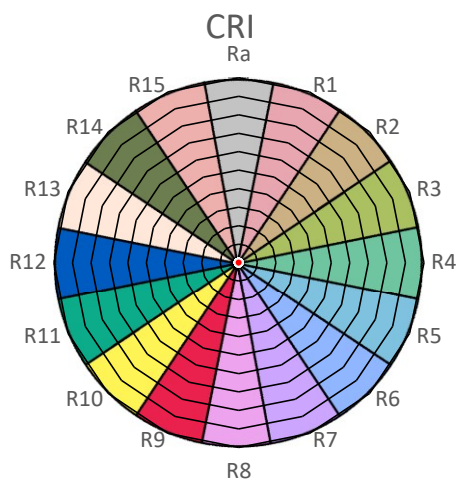
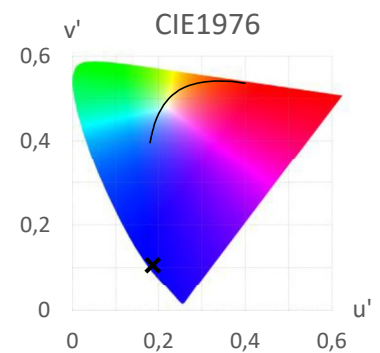
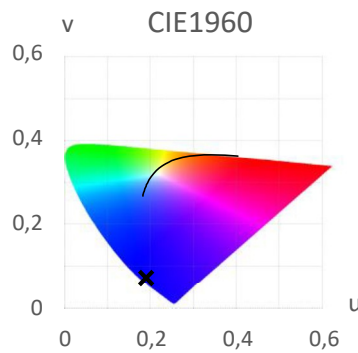
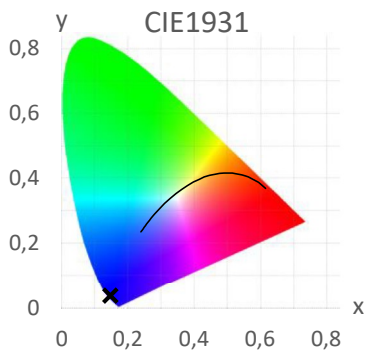
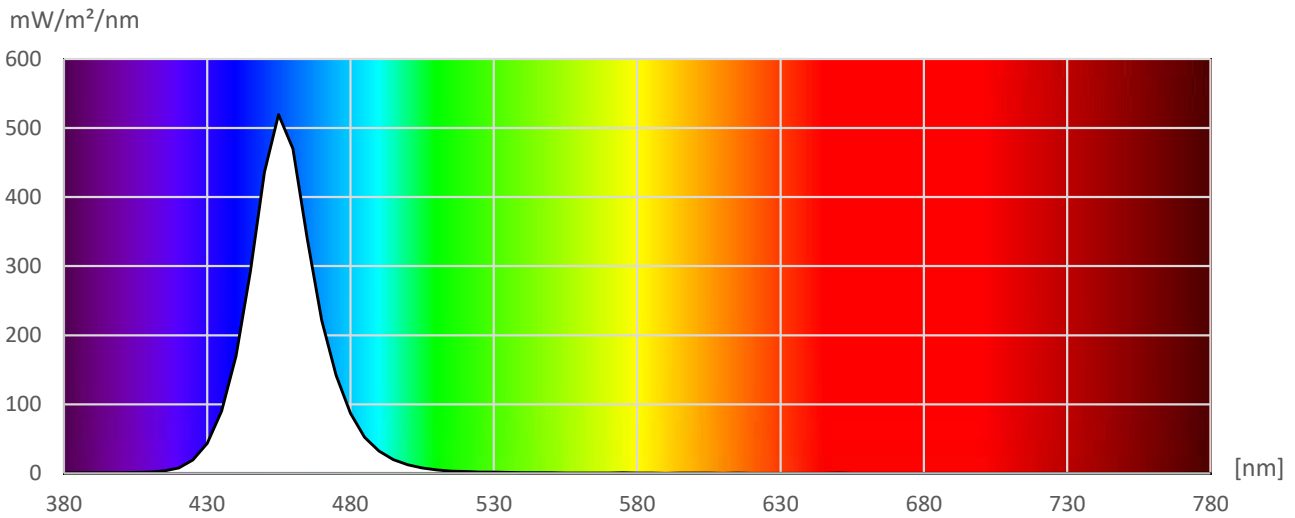
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 1m / blue

Measurement file: 451167_1m_b.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:15:36



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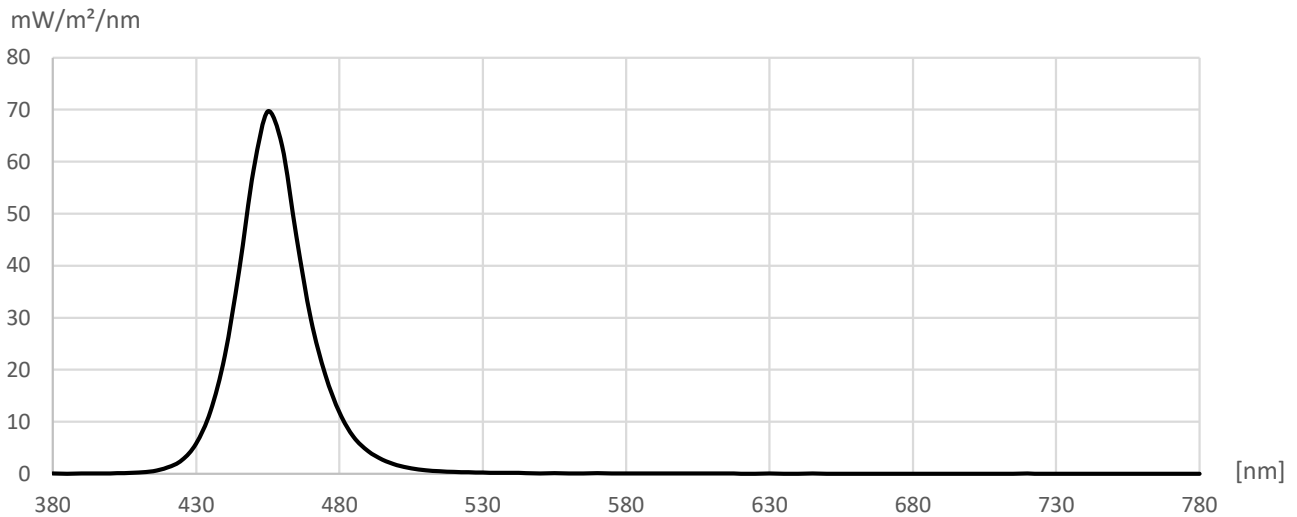
 First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 3m / blue

Measurement file: 451167_3m_b.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:15:45



R1 = -	Ra = -	Illuminance	93,67 lx	CIE1931
R2 = -	Re = -	Ee	2,009 W/m ²	x = 0,1467
R3 = -	GAI = -	LER	46,6 lm/W	y = 0,0362
R4 = -				
R5 = -		correlated color temperature (CCT)	> 50000 K	CIE1976
R6 = -		Duv	-	u' = 0,1868
R7 = -				v' = 0,1038
R8 = -		Saturation	98,1 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	451 nm	u = 0,1868
R11 = -		Peak wavelength	456 nm	v = 0,0692
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	0,03	440	22,68	500	1,65	560	0,07	620	0,02	680	0,00	740	0,00
385	0,01	445	39,13	505	1,04	565	0,07	625	0,01	685	0,00	745	0,00
390	0,07	450	58,38	510	0,68	570	0,09	630	0,02	690	0,00	750	0,00
395	0,06	455	69,63	515	0,45	575	0,07	635	0,01	695	0,00	755	0,00
400	0,07	460	63,11	520	0,34	580	0,05	640	0,00	700	0,02	760	0,00
405	0,13	465	45,56	525	0,27	585	0,07	645	0,03	705	0,00	765	0,00
410	0,23	470	29,77	530	0,22	590	0,06	650	0,00	710	0,01	770	0,00
415	0,51	475	19,10	535	0,17	595	0,05	655	0,00	715	0,00	775	0,00
420	1,20	480	11,71	540	0,17	600	0,03	660	0,01	720	0,02	780	0,00
425	2,60	485	7,03	545	0,12	605	0,04	665	0,00	725	0,00		
430	5,78	490	4,36	550	0,05	610	0,03	670	0,00	730	0,00		
435	11,97	495	2,72	555	0,09	615	0,04	675	0,00	735	0,00		

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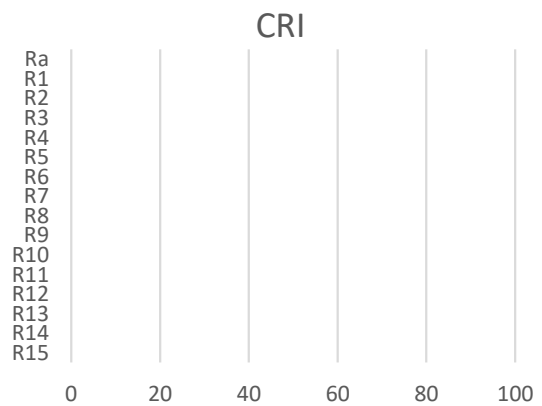
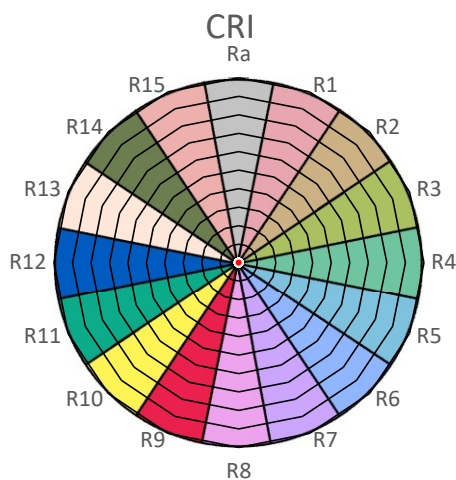
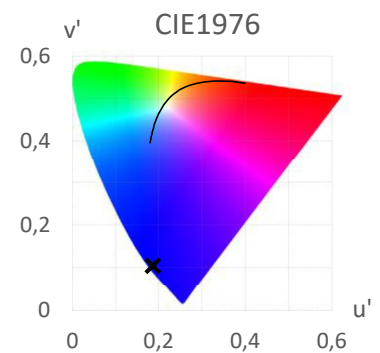
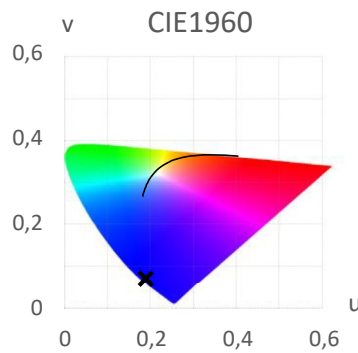
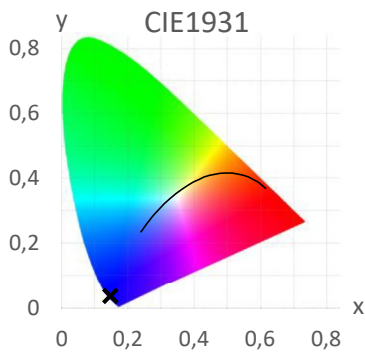
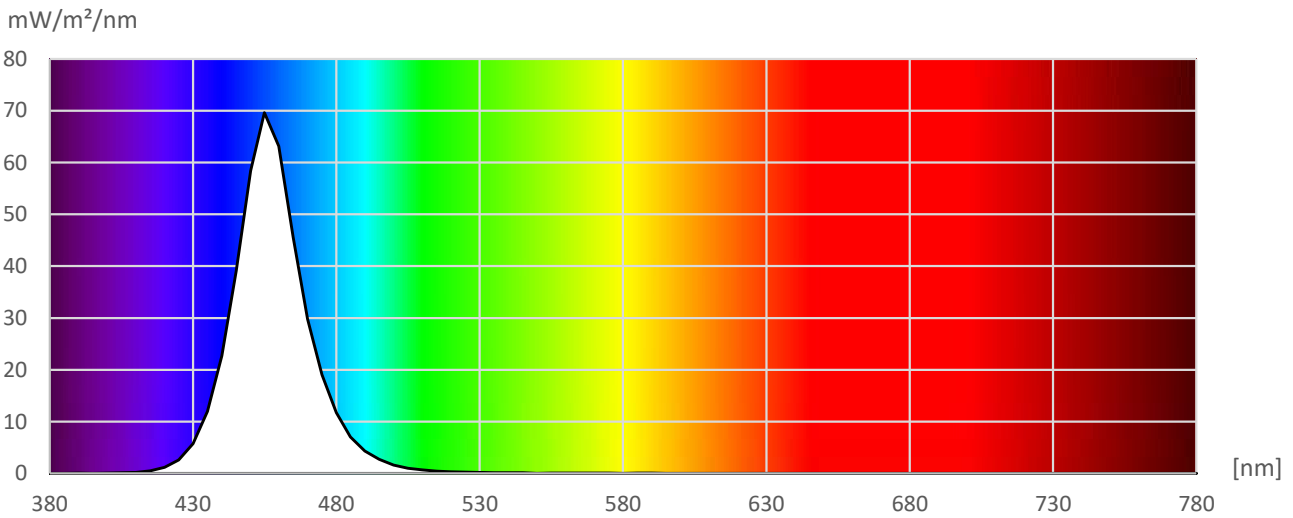
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 3m / blue

Measurement file: 451167_3m_b.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:15:45



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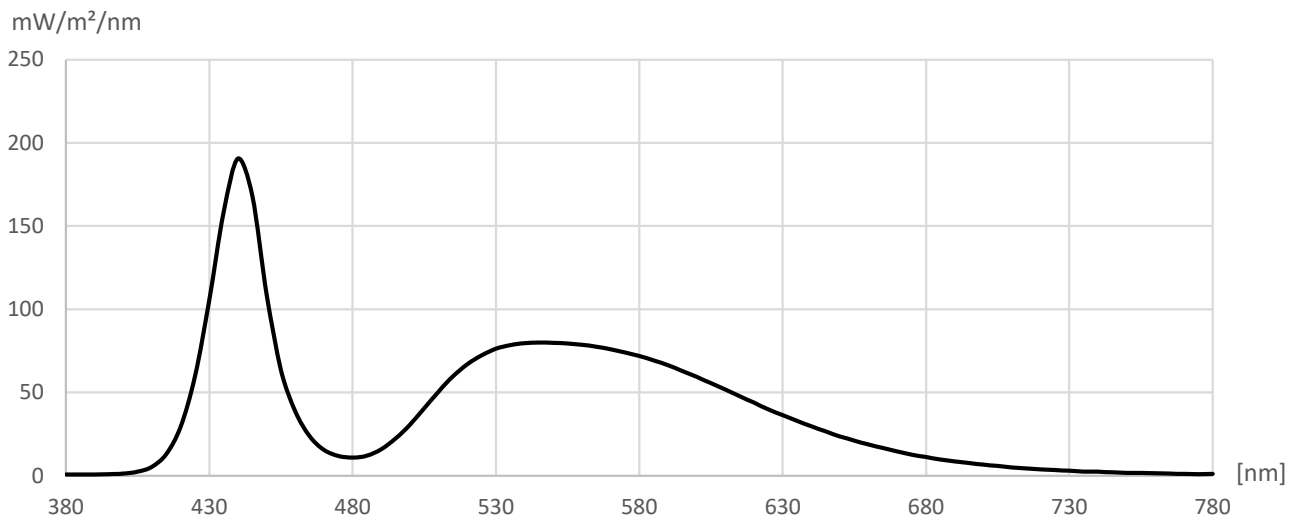
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 1m / white

Measurement file: 451167_1m_cw.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:16:01



R1 = 70,3	Ra = 67,9	Illuminance	4697,39 lx	CIE1931
R2 = 69,0	Re = 58,3	Ee	15,248 W/m ²	x = 0,3071
R3 = 66,6	GAI = 91,9	LER	308,1 lm/W	y = 0,3151
R4 = 70,3				
R5 = 72,0		correlated color temperature (CCT)	6972 K	CIE1976
R6 = 60,9		Duv	-0,0011	u' = 0,1992
R7 = 72,2				v' = 0,4599
R8 = 62,1		Saturation	10,6 %	
R9 = -24,1				CIE1960
R10 = 25,5		Dominant wavelength	479 nm	u = 0,1992
R11 = 73,7		Peak wavelength	440 nm	v = 0,3066
R12 = 43,3				
R13 = 67,6		Flicker frequency	% < 1.0 Hz	TM30
R14 = 80,9		Percent Flicker	< 1.0 %	Rf = 62,0
R15 = 63,7		Flicker index	% < 1.0	Rg = 96,9

[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	0,70	440	190,60	500	30,73	560	78,61	620	43,83	680	11,27	740	2,41
385	0,69	445	168,22	505	40,65	565	77,62	625	39,89	685	9,76	745	1,99
390	0,77	450	108,50	510	50,70	570	76,05	630	36,37	690	8,63	750	1,78
395	1,00	455	63,74	515	59,69	575	74,01	635	32,95	695	7,64	755	1,65
400	1,24	460	38,83	520	67,05	580	72,03	640	29,69	700	6,62	760	1,52
405	2,39	465	23,80	525	72,38	585	69,27	645	26,60	705	5,88	765	1,23
410	5,44	470	15,53	530	76,32	590	66,41	650	23,65	710	5,03	770	1,13
415	13,10	475	11,92	535	78,44	595	62,96	655	21,12	715	4,46	775	0,99
420	29,62	480	10,84	540	79,66	600	59,42	660	18,69	720	3,88	780	1,13
425	60,01	485	12,01	545	80,04	605	55,55	665	16,63	725	3,42		
430	105,20	490	15,94	550	79,86	610	51,77	670	14,59	730	2,98		
435	158,20	495	22,35	555	79,40	615	47,77	675	12,68	735	2,56		

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Burgebrach, 23.03.2021

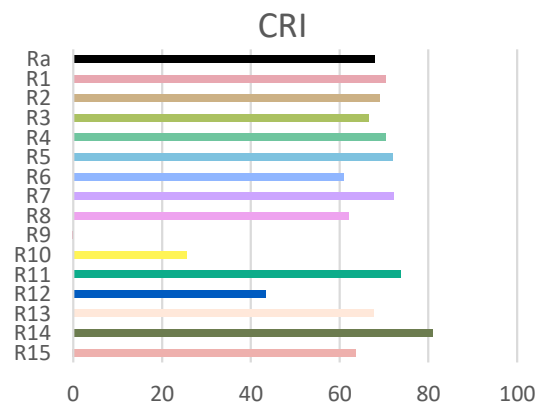
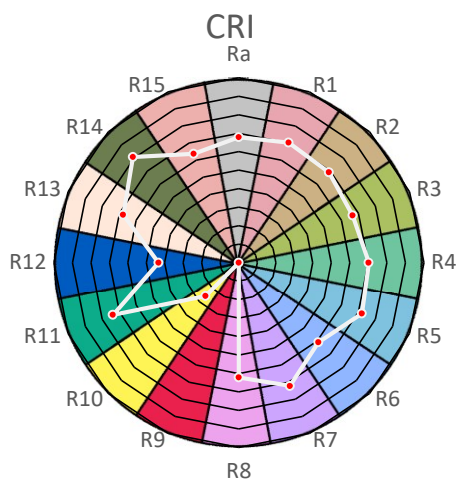
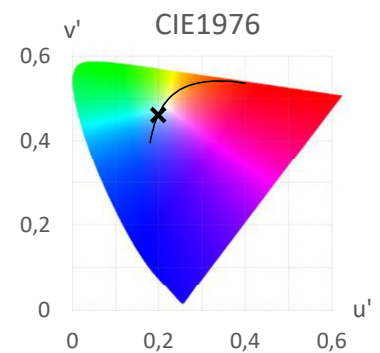
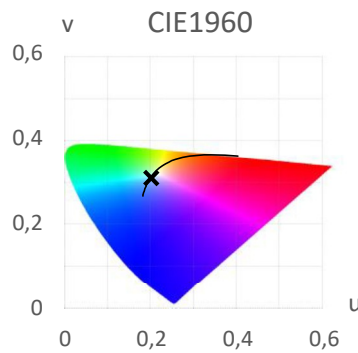
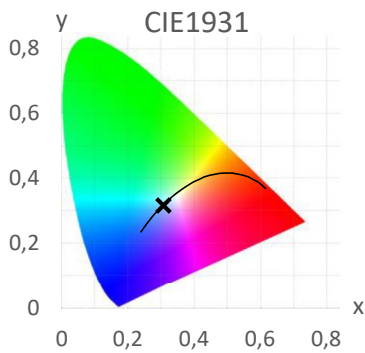
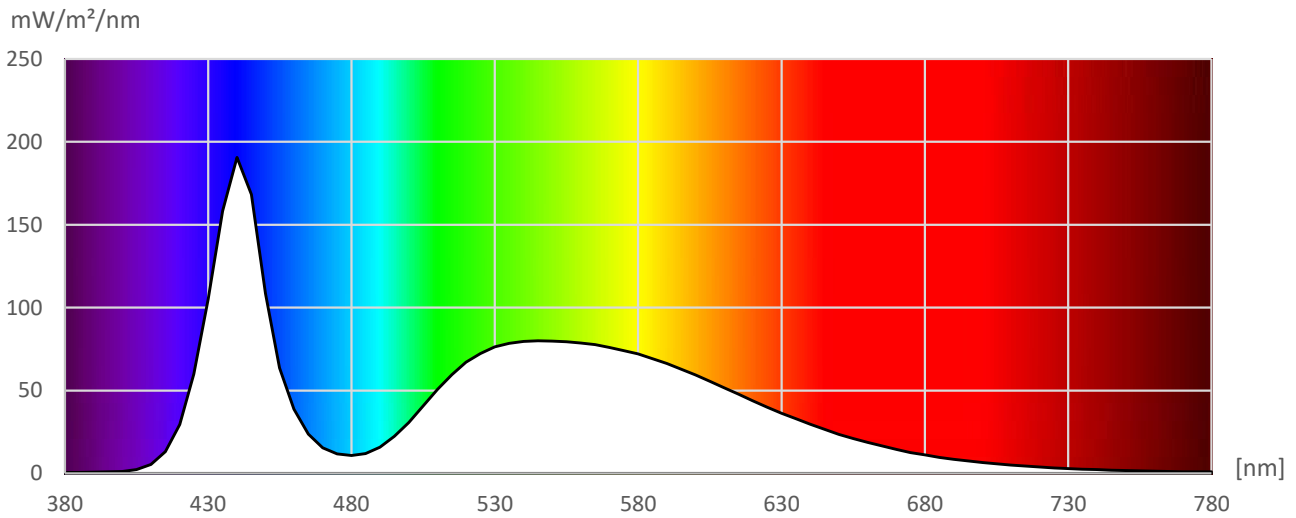
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 1m / white

Measurement file: 451167_1m_cw.CS
 Date of measurement: 23.03.2021
 Time of measurement: 16:16:01



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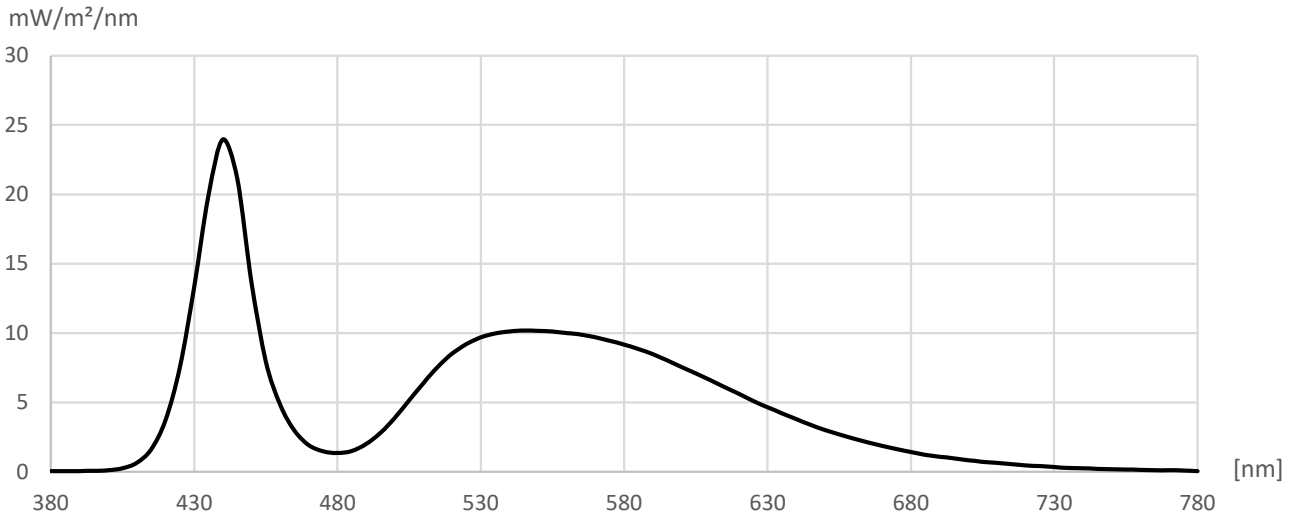
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 3m / white

Measurement file: 451167_3m_cw.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:16:13



R1 = 70,1	Ra = 67,8	Illuminance	597,49 lx	CIE1931
R2 = 69,0	Re = 58,1	Ee	1,926 W/m ²	x = 0,3083
R3 = 66,8	GAI = 91,6	LER	310,2 lm/W	y = 0,3168
R4 = 70,2				
R5 = 71,8		correlated color temperature (CCT)	6874 K	CIE1976
R6 = 60,8		Duv	-0,0009	u' = 0,1994
R7 = 72,2				v' = 0,4610
R8 = 61,8		Saturation	10 %	
R9 = -24,8				CIE1960
R10 = 25,6		Dominant wavelength	479 nm	u = 0,1994
R11 = 73,5		Peak wavelength	440 nm	v = 0,3073
R12 = 43,1				
R13 = 67,4		Flicker frequency	% < 1.0 Hz	TM30
R14 = 81,0		Percent Flicker	< 1.0 %	Rf = 62,0
R15 = 63,4		Flicker index	% < 1.0	Rg = 96,8

[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	0,03	440	23,95	500	3,89	560	10,00	620	5,61	680	1,43	740	0,26
385	0,05	445	21,17	505	5,15	565	9,88	625	5,11	685	1,22	745	0,21
390	0,05	450	13,59	510	6,41	570	9,69	630	4,65	690	1,09	750	0,18
395	0,07	455	7,98	515	7,56	575	9,44	635	4,22	695	0,96	755	0,16
400	0,10	460	4,85	520	8,51	580	9,17	640	3,80	700	0,84	760	0,14
405	0,24	465	2,96	525	9,20	585	8,85	645	3,38	705	0,72	765	0,10
410	0,64	470	1,92	530	9,69	590	8,47	650	3,02	710	0,64	770	0,11
415	1,62	475	1,46	535	9,96	595	8,03	655	2,70	715	0,55	775	0,10
420	3,72	480	1,35	540	10,11	600	7,55	660	2,39	720	0,46	780	0,03
425	7,56	485	1,49	545	10,18	605	7,10	665	2,11	725	0,40		
430	13,24	490	1,99	550	10,16	610	6,61	670	1,86	730	0,35		
435	19,91	495	2,80	555	10,10	615	6,10	675	1,64	735	0,26		

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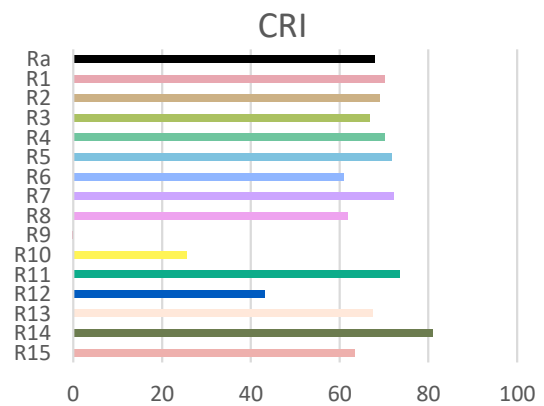
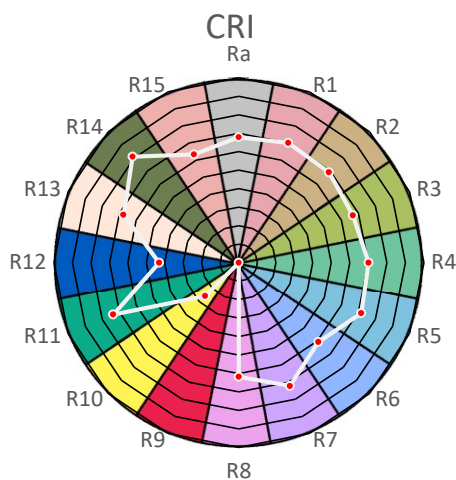
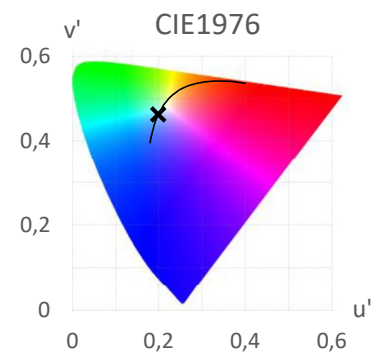
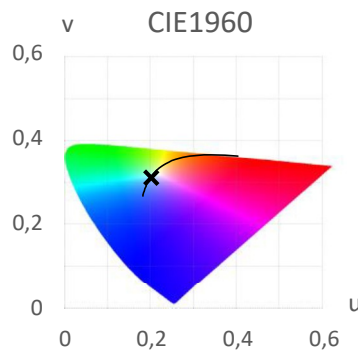
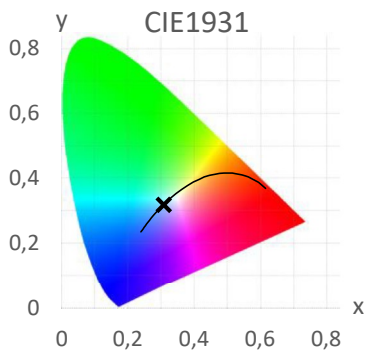
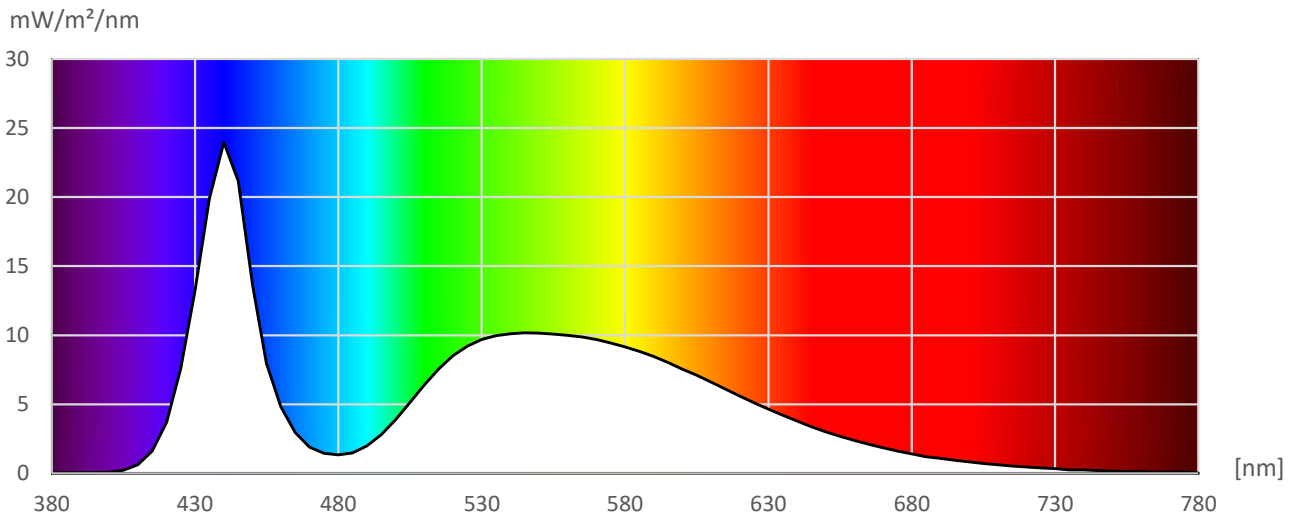
Burgebrach, 23.03.2021

First, last name of inspector

Measurement protocol

Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 3m / white

Measurement file: 451167_3m_cw.CS
 Date of measurement: 23.03.2021
 Time of measurement: 16:16:13

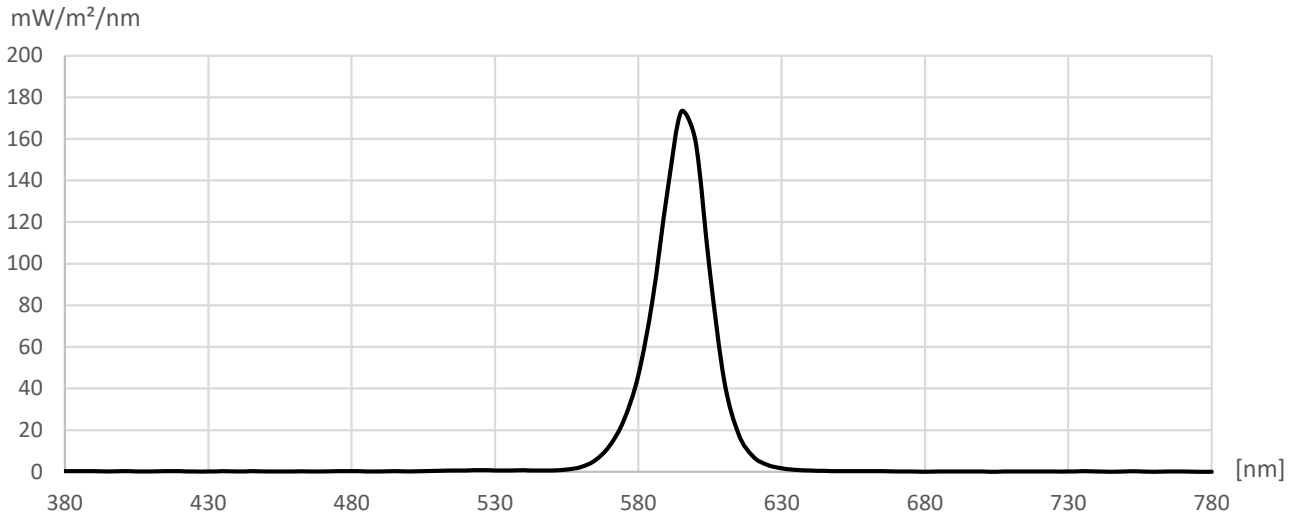


Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 1m / amber

Measurement file: 451167_1m_a.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:16:27



R1 = -	Ra = -	Illuminance	1941,8 lx	CIE1931
R2 = -	Re = -	Ee	4,131 W/m ²	x = 0,5897
R3 = -	GAI = -	LER	470,0 lm/W	y = 0,4068
R4 = -				
R5 = -		correlated color temperature (CCT)	< 1600 K	CIE1976
R6 = -		Duv	-	u' = 0,3519
R7 = -				v' = 0,5463
R8 = -		Saturation	98,8 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	593 nm	u = 0,3519
R11 = -		Peak wavelength	596 nm	v = 0,3642
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	0,28	440	0,10	500	0,17	560	2,27	620	7,37	680	0,02	740	0,12
385	0,26	445	0,20	505	0,29	565	5,52	625	3,29	685	0,11	745	0,01
390	0,28	450	0,19	510	0,42	570	12,38	630	1,66	690	0,07	750	0,18
395	0,12	455	0,15	515	0,55	575	24,90	635	0,88	695	0,19	755	0,18
400	0,26	460	0,20	520	0,65	580	46,39	640	0,53	700	0,07	760	0,00
405	0,20	465	0,20	525	0,73	585	83,02	645	0,38	705	0,05	765	0,11
410	0,18	470	0,18	530	0,66	590	133,52	650	0,27	710	0,08	770	0,11
415	0,25	475	0,30	535	0,65	595	173,04	655	0,29	715	0,09	775	0,00
420	0,21	480	0,28	540	0,67	600	158,78	660	0,23	720	0,16	780	0,03
425	0,12	485	0,20	545	0,55	605	95,84	665	0,25	725	0,09		
430	0,06	490	0,19	550	0,62	610	43,45	670	0,12	730	0,06		
435	0,20	495	0,21	555	1,02	615	17,92	675	0,13	735	0,21		

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Burgebrach, 23.03.2021

First, last name of inspector

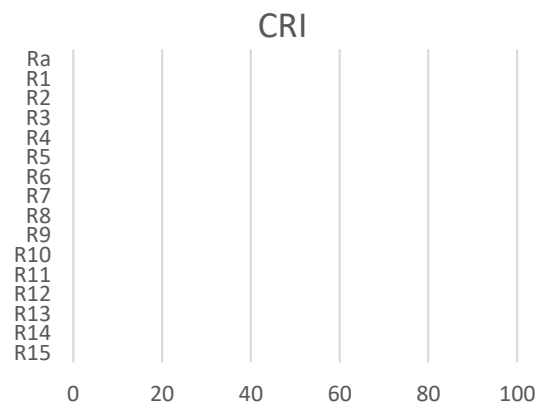
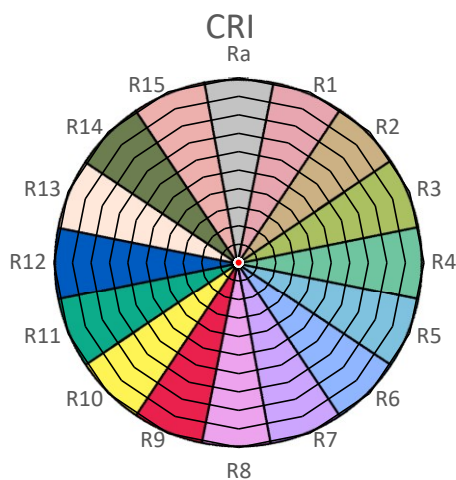
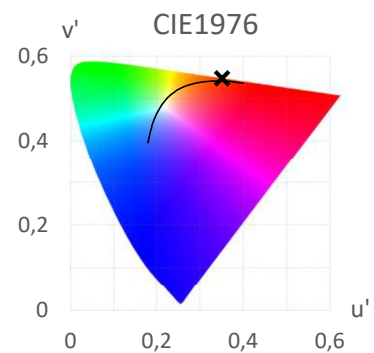
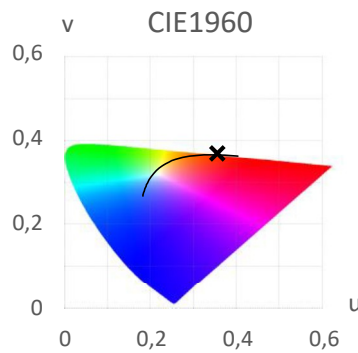
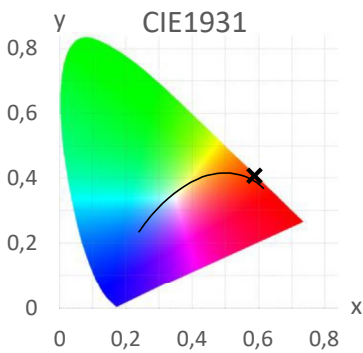
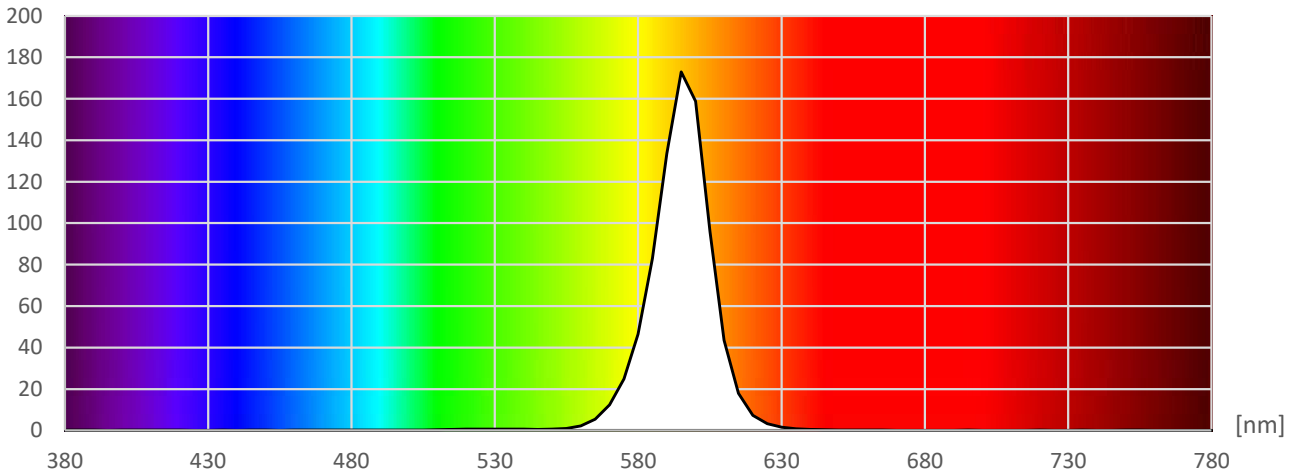
Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 1m / amber

Measurement file: 451167_1m_a.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:16:27

mW/m²/nm



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Burgebrach, 23.03.2021

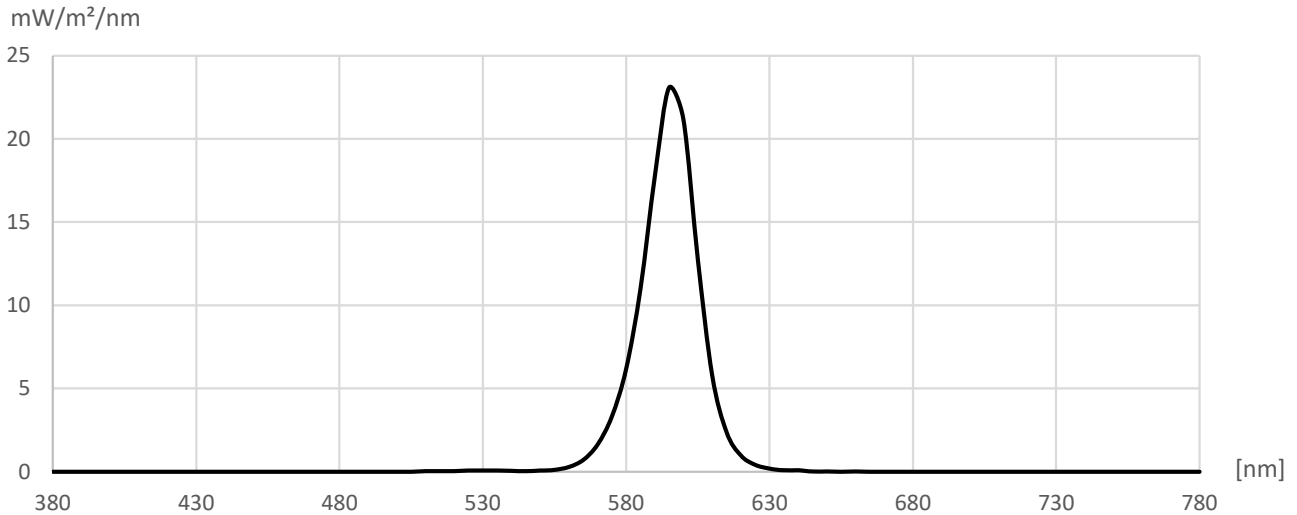
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 3m / amber

Measurement file: 451167_3m_a.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:16:41



R1 = -	Ra = -	Illuminance	257,23 lx	CIE1931
R2 = -	Re = -	Ee	0,542 W/m ²	x = 0,5921
R3 = -	GAI = -	LER	474,3 lm/W	y = 0,4072
R4 = -				
R5 = -		correlated color temperature (CCT)	< 1600 K	CIE1976
R6 = -		Duv	-	u' = 0,3534
R7 = -				v' = 0,5468
R8 = -		Saturation	99,7 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	593 nm	u = 0,3534
R11 = -		Peak wavelength	596 nm	v = 0,3645
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	0,00	440	0,00	500	0,00	560	0,29	620	0,97	680	0,00	740	0,00
385	0,00	445	0,00	505	0,00	565	0,71	625	0,42	685	0,00	745	0,00
390	0,00	450	0,00	510	0,03	570	1,61	630	0,18	690	0,00	750	0,00
395	0,00	455	0,00	515	0,03	575	3,31	635	0,08	695	0,00	755	0,00
400	0,00	460	0,00	520	0,04	580	6,18	640	0,08	700	0,00	760	0,00
405	0,00	465	0,00	525	0,06	585	11,01	645	0,01	705	0,00	765	0,00
410	0,00	470	0,00	530	0,07	590	17,80	650	0,01	710	0,00	770	0,00
415	0,00	475	0,00	535	0,07	595	23,07	655	0,00	715	0,00	775	0,00
420	0,00	480	0,00	540	0,05	600	21,18	660	0,01	720	0,00	780	0,00
425	0,00	485	0,00	545	0,04	605	12,79	665	0,00	725	0,00		
430	0,00	490	0,00	550	0,06	610	5,79	670	0,00	730	0,00		
435	0,00	495	0,00	555	0,11	615	2,38	675	0,00	735	0,00		

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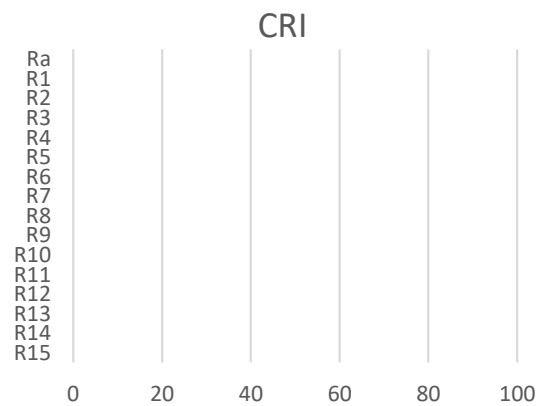
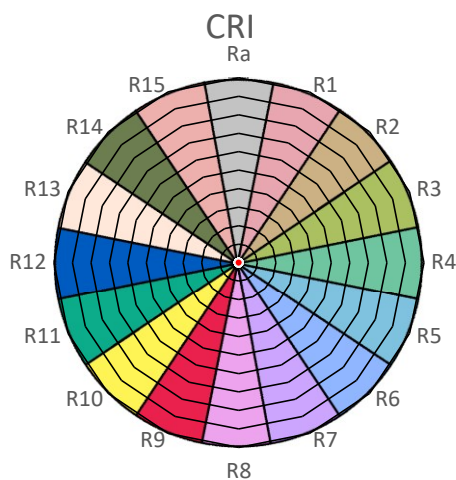
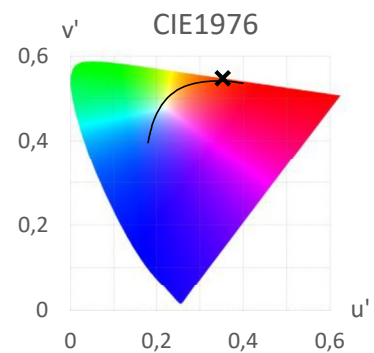
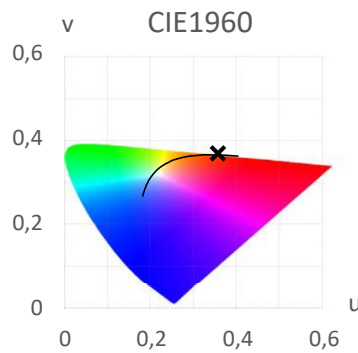
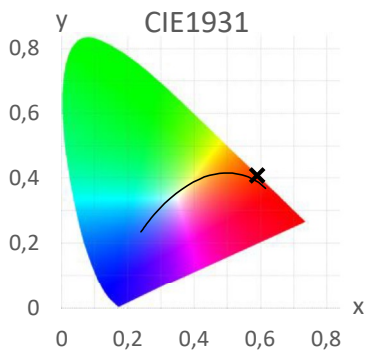
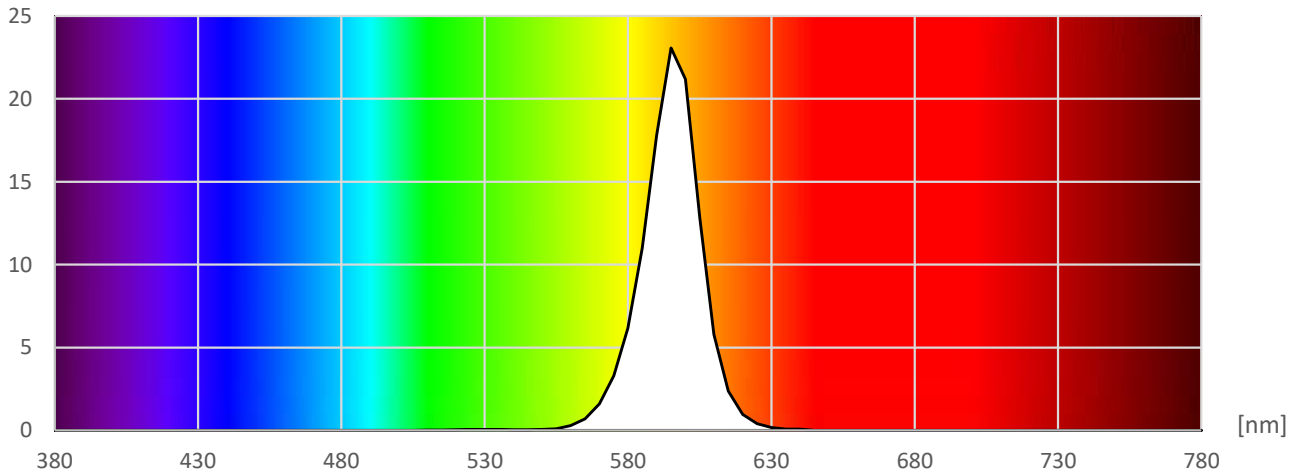
First, last name of inspector

Measurement protocol

Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 3m / amber

Measurement file: 451167_3m_a.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:16:41

mW/m²/nm

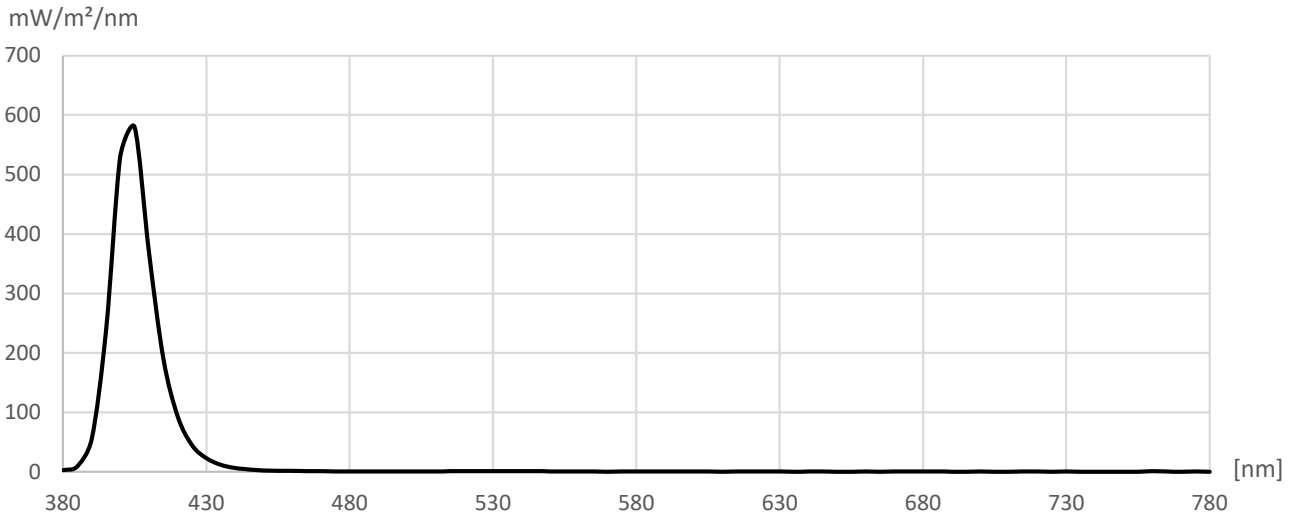


Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 1m / UV

Measurement file: 451167_1m_uv.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:17:13



R1 = -	Ra = -	Illuminance	48,49 lx	CIE1931
R2 = -	Re = -	Ee	10,927 W/m ²	x = 0,1760
R3 = -	GAI = -	LER	4,4 lm/W	y = 0,0253
R4 = -				
R5 = -		correlated color temperature (CCT)	> 50000 K	CIE1976
R6 = -		Duv	-	u' = 0,2385
R7 = -				v' = 0,0772
R8 = -		Saturation	100 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	#NV	u = 0,2385
R11 = -		Peak wavelength	403 nm	v = 0,0515
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	2,67	440	6,31	500	0,39	560	0,28	620	0,21	680	0,31	740	0,02
385	9,22	445	3,86	505	0,58	565	0,38	625	0,19	685	0,28	745	0,15
390	54,73	450	2,24	510	0,45	570	0,02	630	0,28	690	0,16	750	0,09
395	238,11	455	1,65	515	0,74	575	0,47	635	0,07	695	0,02	755	0,01
400	529,16	460	1,41	520	0,92	580	0,49	640	0,18	700	0,22	760	0,77
405	580,05	465	1,06	525	1,14	585	0,34	645	0,23	705	0,16	765	0,29
410	369,67	470	0,86	530	0,83	590	0,37	650	0,08	710	0,14	770	0,00
415	190,72	475	0,56	535	0,88	595	0,40	655	0,00	715	0,20	775	0,22
420	93,06	480	0,52	540	0,92	600	0,26	660	0,54	720	0,29	780	0,06
425	44,41	485	0,53	545	0,98	605	0,26	665	0,12	725	0,04		
430	23,06	490	0,38	550	0,66	610	0,15	670	0,34	730	0,20		
435	11,71	495	0,37	555	0,52	615	0,36	675	0,40	735	0,02		

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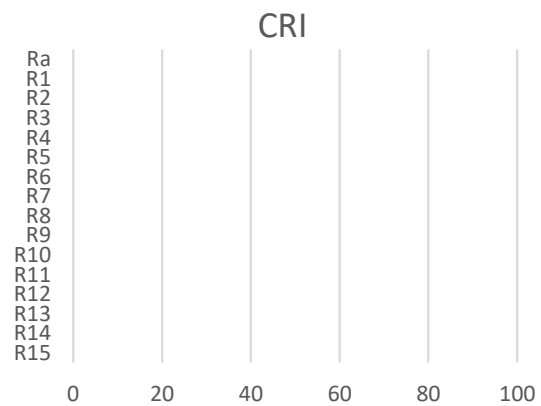
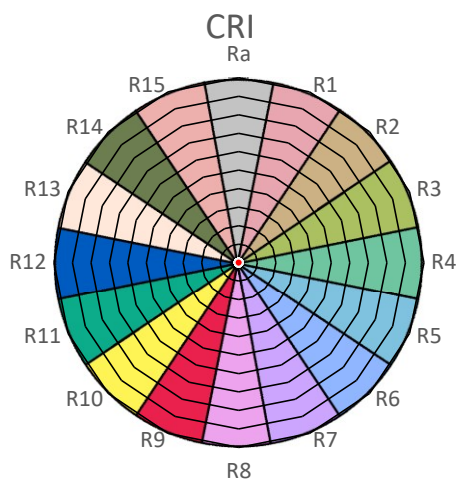
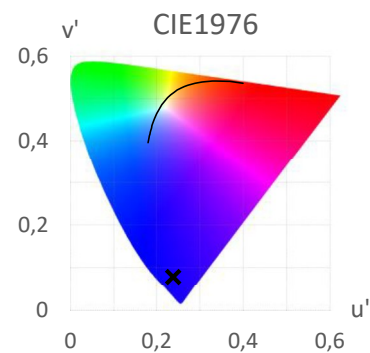
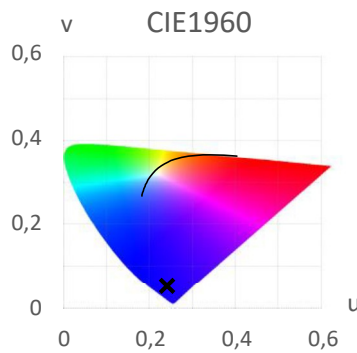
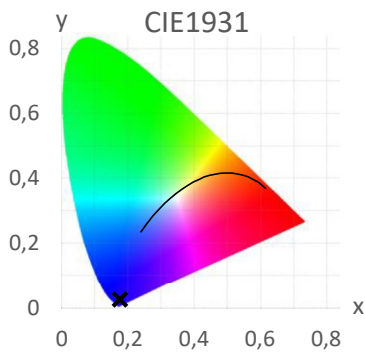
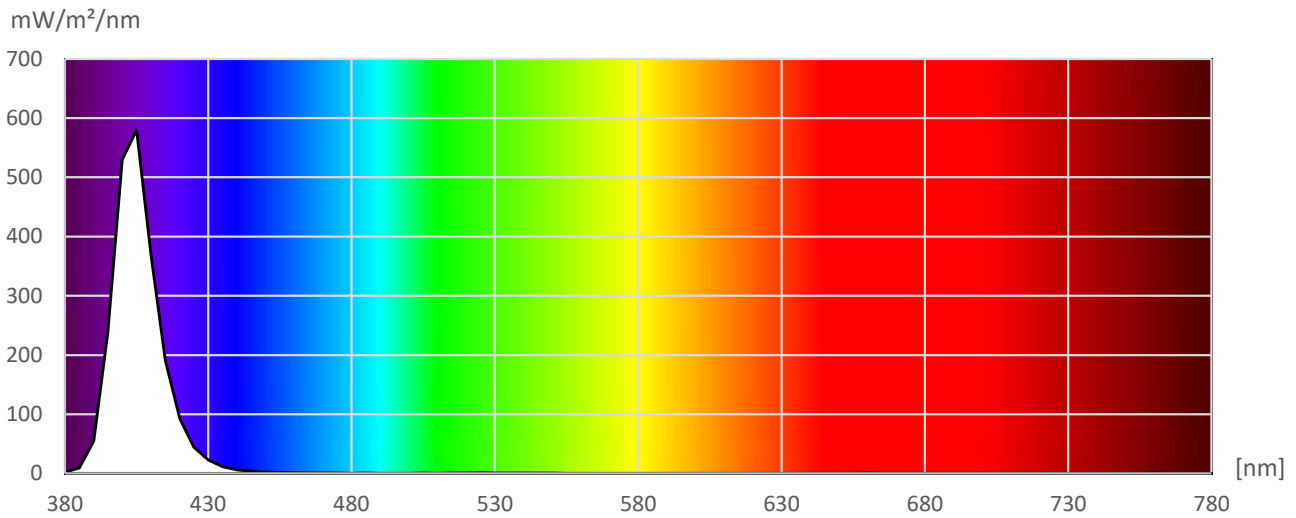
First, last name of inspector

Measurement protocol



Test object: Varytec
 Hero Wash 715 HEX LED
 451167 / 1m / UV

Measurement file: 451167_1m_uv.CS
 Date of measurement: 23.03.2021
 Time of measurement: 16:17:13



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Burgebrach, 23.03.2021

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