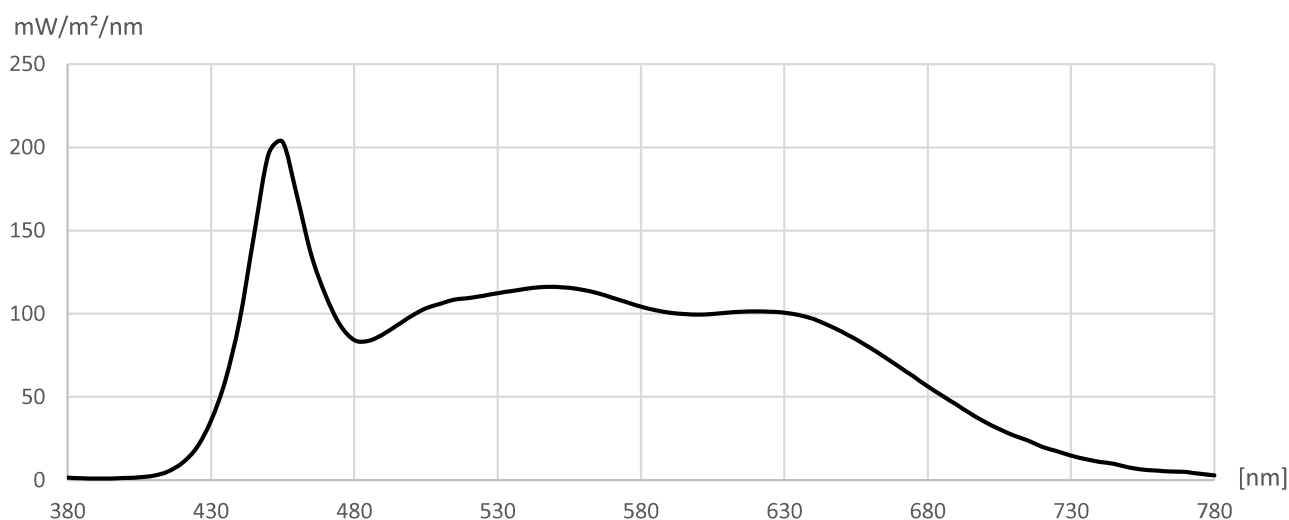


Measurement protocol

th.mann

Test object: Varytec
LED Profile Mini IP65 5600K
435628 + 435630 / @ 1 m

Measurement file: 435628_435630_1m.CS
Date of measurement: 29.04.2019
Time of measurement: 16:54:12



R1 = 97,0	Ra = 96,2	Illuminance	7845,5 lx	CIE1931
R2 = 98,1	Re = 94,5	Ee	28,522 W/m²	x = 0,3229
R3 = 95,8	GAI = 95,3	LER	275,1 lm/W	y = 0,3346
R4 = 96,0				
R5 = 95,4		correlated color temperature (CCT)	5947 K	CIE1976
R6 = 93,6		Duv	0,0011	u' = 0,2028
R7 = 97,7				v' = 0,4728
R8 = 96,4		Saturation	3,4 %	
R9 = 91,6				CIE1960
R10 = 93,6		Dominant wavelength	491 nm	u = 0,2028
R11 = 95,9		Peak wavelength	454 nm	v = 0,3152
R12 = 74,1				
R13 = 98,2		Flicker frequency	100 Hz	TM30
R14 = 97,6		Percent Flicker	55,1 %	Rf = 91,1
R15 = 96,5		Flicker index	0,172	Rg = 99,9

[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	1,53	440	95,97	500	98,81	560	114,30	620	101,51	680	56,41	740	11,07
385	1,19	445	147,32	505	103,33	565	112,31	625	101,31	685	50,84	745	9,92
390	1,05	450	195,67	510	106,12	570	109,72	630	100,70	690	45,52	750	7,73
395	1,09	455	203,41	515	108,45	575	106,93	635	99,25	695	39,91	755	6,39
400	1,32	460	171,12	520	109,56	580	104,23	640	96,91	700	34,94	760	5,78
405	1,70	465	135,35	525	110,87	585	102,24	645	93,36	705	30,80	765	5,16
410	2,69	470	111,05	530	112,46	590	100,62	650	89,33	710	26,96	770	4,96
415	5,30	475	93,28	535	113,70	595	99,83	655	84,68	715	23,91	775	3,83
420	10,51	480	84,22	540	115,09	600	99,54	660	79,59	720	20,11	780	2,92
425	19,60	485	83,77	545	116,00	605	99,91	665	74,01	725	17,46		
430	35,60	490	87,69	550	116,15	610	100,68	670	68,13	730	14,82		
435	59,82	495	93,11	555	115,59	615	101,30	675	62,35	735	12,71		

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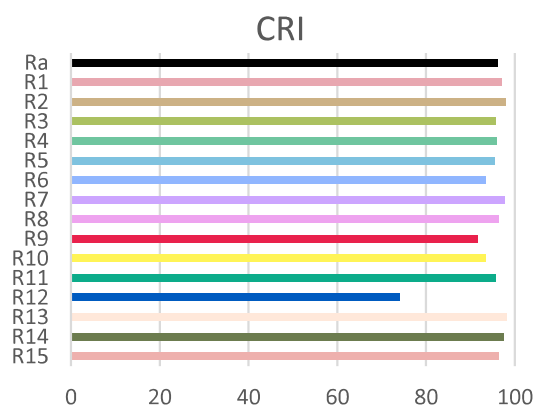
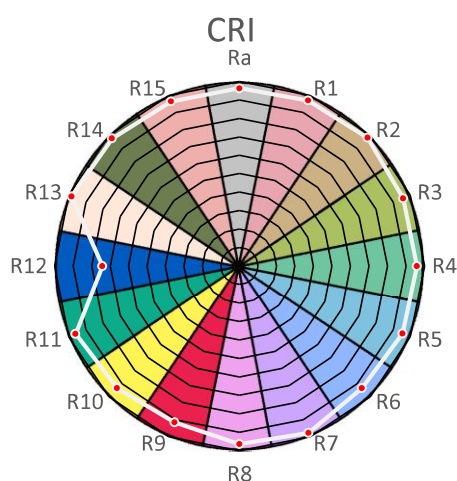
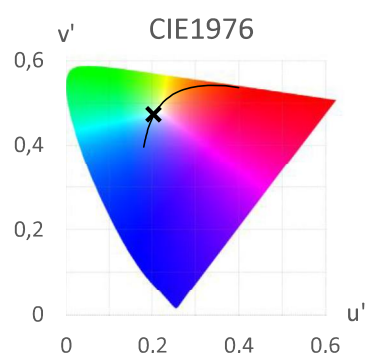
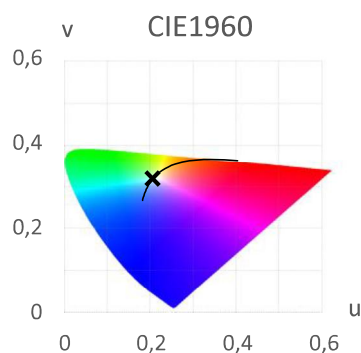
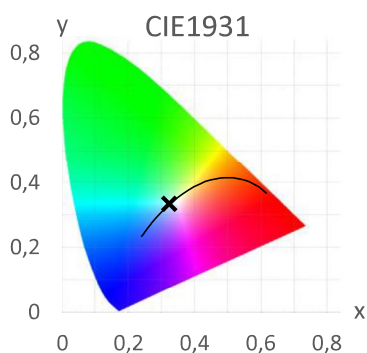
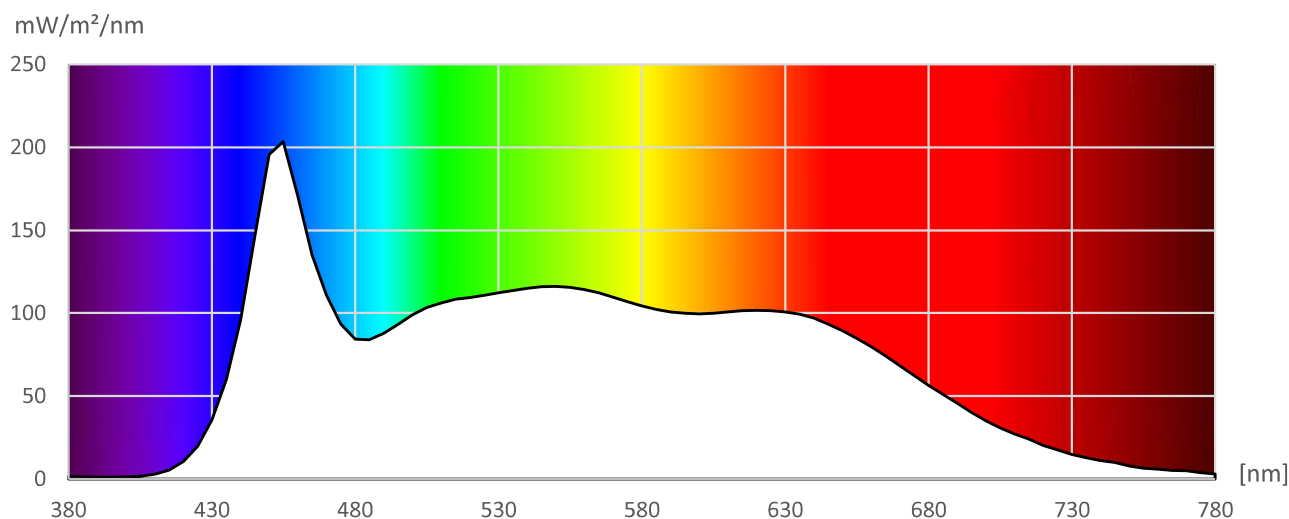
First, last name of inspector

Measurement protocol

th•mann

Test object: Varytec
LED Profile Mini IP65 5600K
435628 + 435630 / @ 1 m

Measurement file: 435628_435630_1
Date of measurement: 29.04.2019
Time of measurement: 16:54:12



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Burgebrach, 29.04.2019

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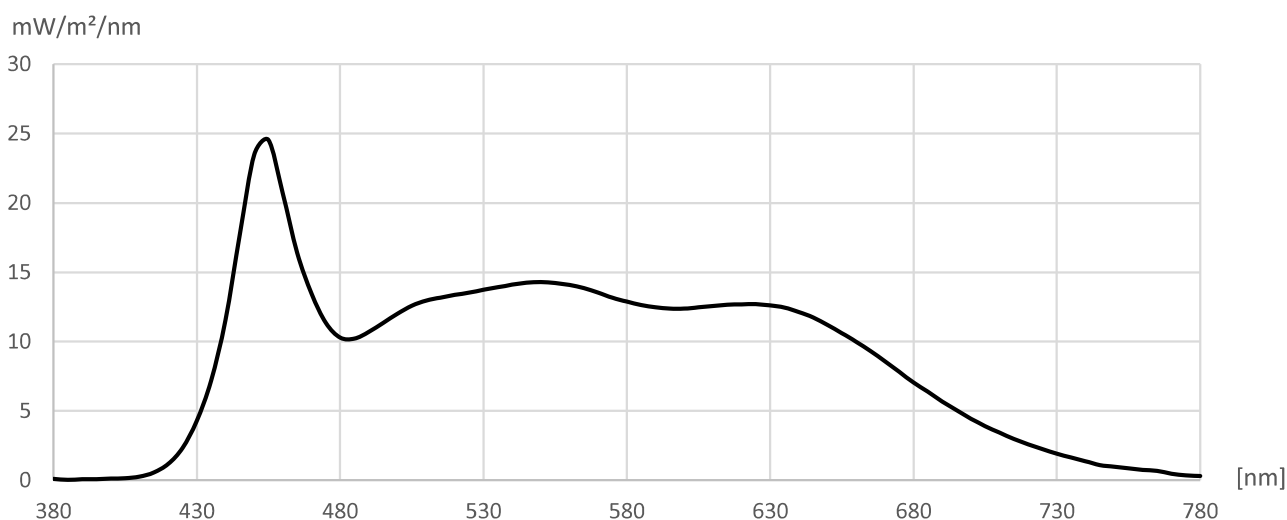
First, last name of inspector

Measurement protocol

th.mann

Test object: Varytec
LED Profile Mini IP65 5600K
435628 + 435630 / @ 3 m

Measurement file: 435628_435630_3m.CS
Date of measurement: 29.04.2019
Time of measurement: 16:54:50



R1 = 97,3	Ra = 96,4
R2 = 98,2	Re = 94,8
R3 = 95,8	GAI = 95,0
R4 = 96,3	
R5 = 95,7	
R6 = 93,8	
R7 = 97,8	
R8 = 96,6	
R9 = 92,5	
R10 = 94,0	
R11 = 96,1	
R12 = 74,7	
R13 = 98,5	
R14 = 97,6	
R15 = 96,7	

Illuminance	965,78 lx
Ee	3,506 W/m²
LER	275,5 lm/W
correlated color temperature (CCT)	5810 K
Duv	0,0007
Saturation	2,4 %
Dominant wavelength	495 nm
Peak wavelength	454 nm
Flicker frequency	100 Hz
Percent Flicker	54,4 %
Flicker index	0,178

CIE1931
x = 0,3257
y = 0,3365
CIE1976
u' = 0,2040
v' = 0,4742
CIE1960
u = 0,2040
v = 0,3161
TM30
Rf = 91,2
Rg = 100,0

[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	0,11	440	11,54	500	12,01	560	14,07	620	12,69	680	7,05	740	1,38
385	0,04	445	17,74	505	12,59	565	13,85	625	12,69	685	6,38	745	1,10
390	0,07	450	23,49	510	12,96	570	13,52	630	12,60	690	5,68	750	0,97
395	0,09	455	24,55	515	13,17	575	13,16	635	12,45	695	5,04	755	0,87
400	0,11	460	20,70	520	13,37	580	12,88	640	12,13	700	4,44	760	0,74
405	0,14	465	16,42	525	13,52	585	12,64	645	11,73	705	3,91	765	0,68
410	0,26	470	13,47	530	13,74	590	12,47	650	11,21	710	3,43	770	0,47
415	0,56	475	11,35	535	13,91	595	12,38	655	10,61	715	2,99	775	0,35
420	1,17	480	10,28	540	14,10	600	12,37	660	9,99	720	2,60	780	0,30
425	2,34	485	10,22	545	14,23	605	12,46	665	9,31	725	2,24		
430	4,27	490	10,69	550	14,29	610	12,56	670	8,58	730	1,91		
435	7,18	495	11,34	555	14,22	615	12,65	675	7,82	735	1,64		

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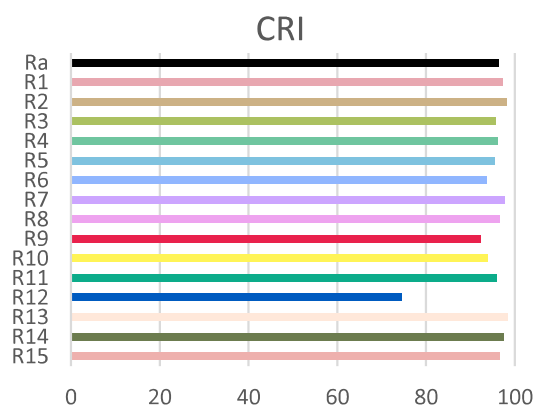
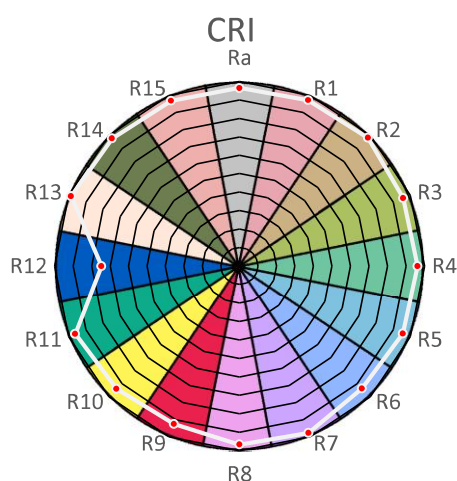
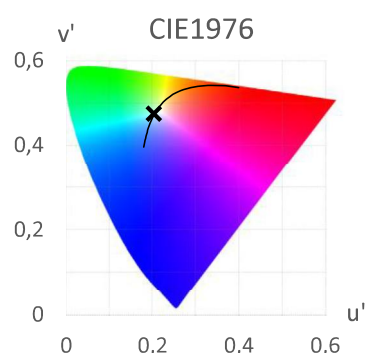
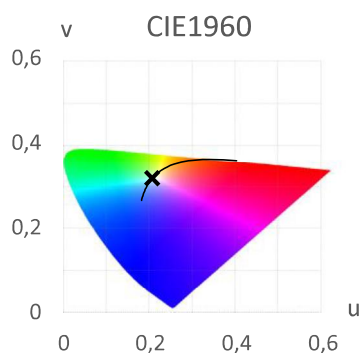
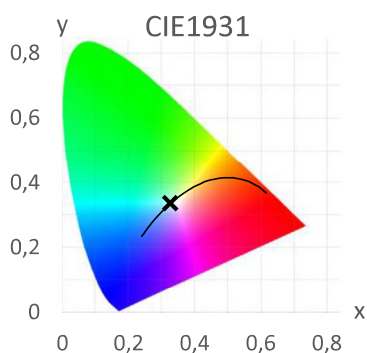
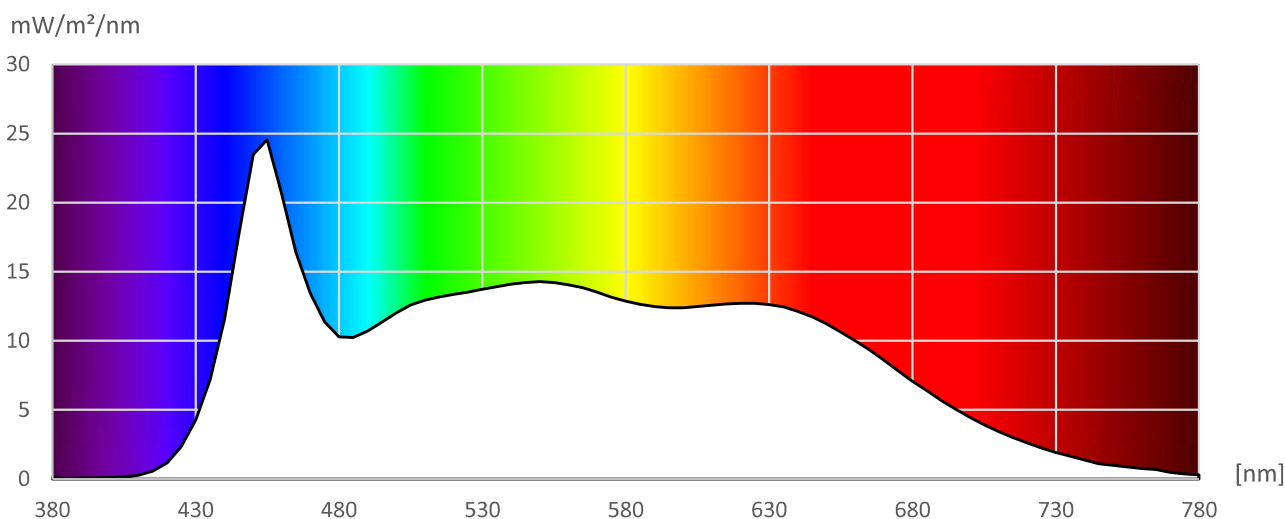
First, last name of inspector

Measurement protocol

th•mann

Test object: Varytec
LED Profile Mini IP65 5600K
435628 + 435630 / @ 3 m

Measurement file: 435628_435630_3
Date of measurement: 29.04.2019
Time of measurement: 16:54:50



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First, last name of inspector