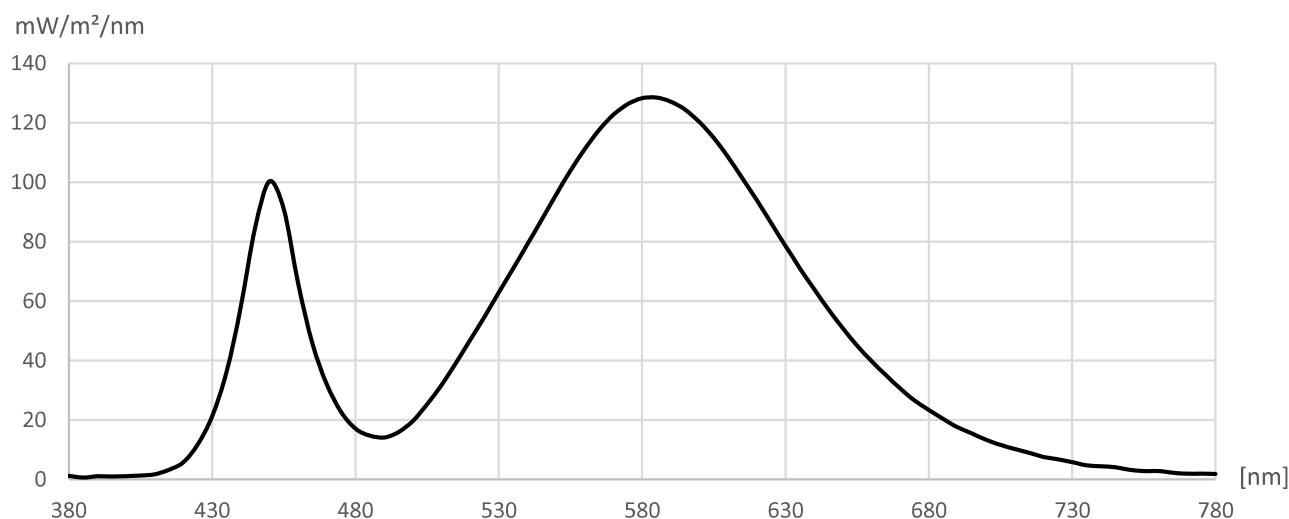


Measurement protocol

th.mann

Test object: Stairville
Octagon Theater CW/WW 36x1W
Item 289076 / WW @ 1 m

Measurement file: ww_1m.CSV
Date of measurement: 30.01.2018
Time of measurement: 10:59:40



R1 = 61,5	Ra = 66,1	Illuminance	6450,63 lx	CIE1931
R2 = 77,7	Re = 55,0	Ee	18,236 W/m ²	x = 0,4076
R3 = 88,9	GAI = 61,7	LER	353,7 lm/W	y = 0,3853
R4 = 58,9				
R5 = 60,0		correlated color temperature (CCT)	3405 K	CIE1976
R6 = 65,8		Duv	-0,0029	u' = 0,2394
R7 = 76,0				v' = 0,5093
R8 = 40,2		Saturation	37,8 %	
R9 = -48,5				CIE1960
R10 = 46,3		Dominant wavelength	582 nm	u = 0,2394
R11 = 48,1		Peak wavelength	582 nm	v = 0,3395
R12 = 35,5				
R13 = 64,3		Flicker frequency	% < 2.5 Hz	TM30
R14 = 93,6		Percent Flicker	< 2.5 %	Rf = -
R15 = 56,3		Flicker index	% < 2.5	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	1,17	440	57,96	500	19,63	560	111,19	620	93,96	680	23,41	740	4,47
385	0,62	445	84,62	505	25,33	565	117,60	625	86,20	685	20,33	745	4,09
390	1,05	450	100,33	510	31,74	570	122,73	630	78,49	690	17,55	750	3,30
395	0,96	455	90,91	515	39,18	575	126,29	635	71,09	695	15,52	755	2,82
400	1,12	460	65,79	520	46,99	580	128,27	640	64,05	700	13,32	760	2,87
405	1,31	465	45,48	525	54,61	585	128,49	645	57,17	705	11,58	765	2,27
410	1,75	470	32,05	530	62,94	590	127,14	650	50,82	710	10,24	770	1,94
415	3,30	475	22,72	535	70,95	595	124,38	655	44,92	715	8,93	775	1,98
420	5,80	480	17,11	540	79,23	600	120,15	660	39,78	720	7,58	780	1,83
425	11,85	485	14,73	545	87,50	605	114,78	665	35,13	725	6,80		
430	21,29	490	14,15	550	95,92	610	108,49	670	30,62	730	5,80		
435	36,24	495	15,97	555	103,83	615	101,28	675	26,58	735	4,77		

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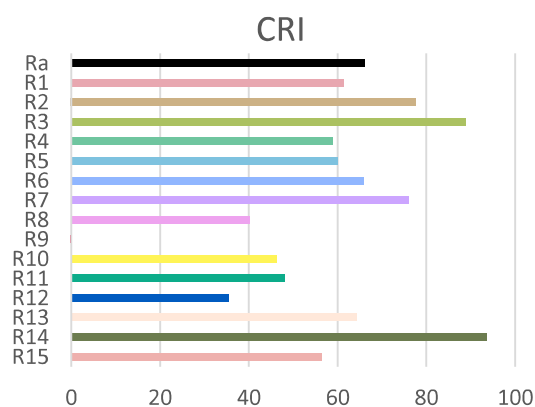
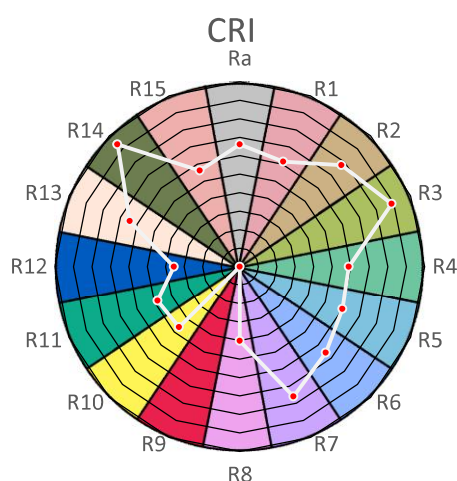
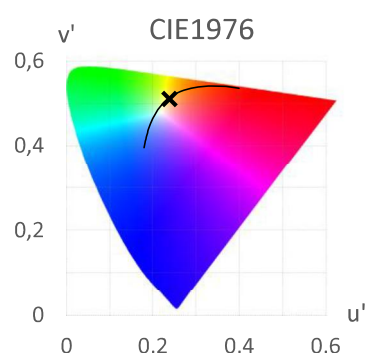
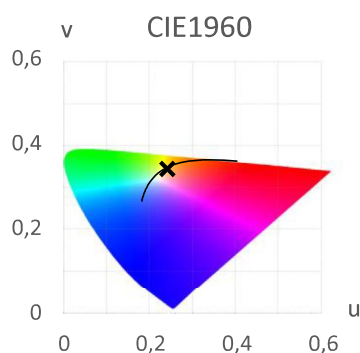
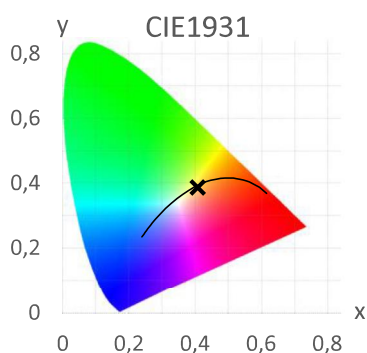
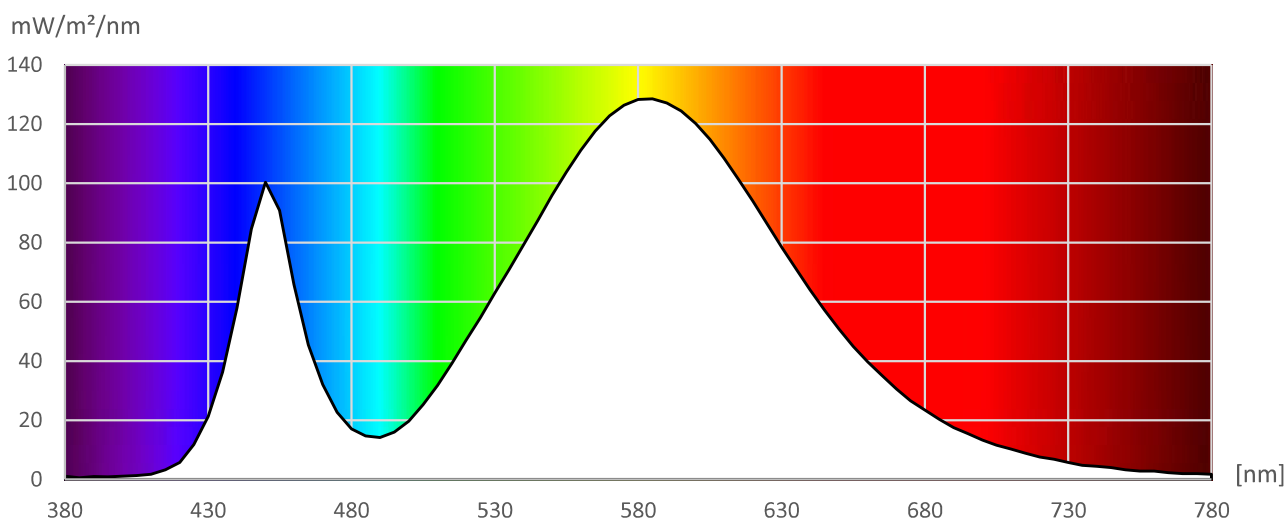
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Octagon Theater CW/WW 36x1W
Item 289076 / WW @ 1 m

Measurement file: ww_1m.CSV
Date of measurement: 30.01.2018
Time of measurement: 10:59:40



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Burgebrach, 26.01.2018

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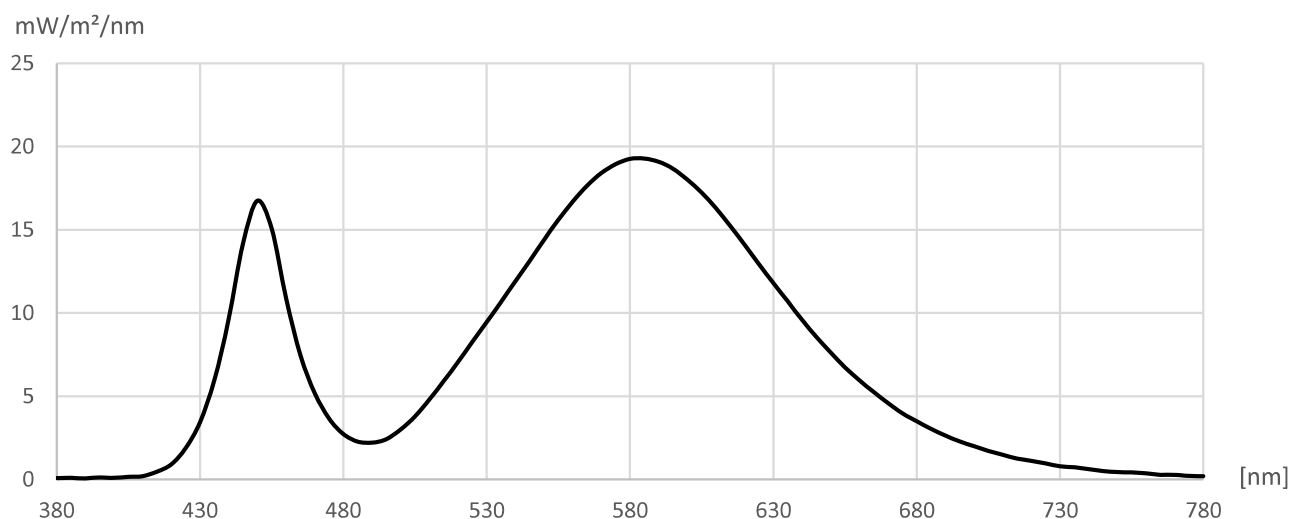
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Octagon Theater CW/WW 36x1W
Item 289076 / WW @ 3 m

Measurement file: ww_3m.CSV
Date of measurement: 30.01.2018
Time of measurement: 10:59:22



R1 = 62,6	Ra = 66,9	Illuminance	970 lx	CIE1931
R2 = 78,6	Re = 56,1	Ee	2,776 W/m ²	x = 0,4014
R3 = 88,8	GAI = 65,8	LER	349,4 lm/W	y = 0,3768
R4 = 59,5				
R5 = 61,3		correlated color temperature (CCT)	3470 K	CIE1976
R6 = 66,9		Duv	-0,0054	u' = 0,2390
R7 = 75,8				v' = 0,5047
R8 = 41,4		Saturation	33,4 %	
R9 = -45,0				CIE1960
R10 = 48,0		Dominant wavelength	583 nm	u = 0,2390
R11 = 48,8		Peak wavelength	584 nm	v = 0,3365
R12 = 37,7				
R13 = 65,5		Flicker frequency	% < 2.5 Hz	TM30
R14 = 93,6		Percent Flicker	< 2.5 %	Rf = -
R15 = 58,2		Flicker index	% < 2.5	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	0,08	440	9,61	500	2,99	560	16,69	620	14,09	680	3,50	740	0,62
385	0,09	445	14,15	505	3,78	565	17,65	625	12,92	685	3,03	745	0,51
390	0,07	450	16,75	510	4,80	570	18,41	630	11,78	690	2,64	750	0,44
395	0,12	455	15,07	515	5,91	575	18,94	635	10,69	695	2,28	755	0,42
400	0,09	460	10,88	520	7,06	580	19,25	640	9,59	700	2,00	760	0,37
405	0,16	465	7,46	525	8,26	585	19,28	645	8,56	705	1,72	765	0,28
410	0,20	470	5,21	530	9,44	590	19,09	650	7,62	710	1,49	770	0,28
415	0,46	475	3,67	535	10,66	595	18,67	655	6,73	715	1,26	775	0,21
420	0,90	480	2,73	540	11,91	600	18,00	660	5,95	720	1,12	780	0,20
425	1,88	485	2,27	545	13,14	605	17,23	665	5,26	725	0,96		
430	3,45	490	2,21	550	14,40	610	16,30	670	4,59	730	0,80		
435	5,99	495	2,42	555	15,58	615	15,22	675	3,98	735	0,73		

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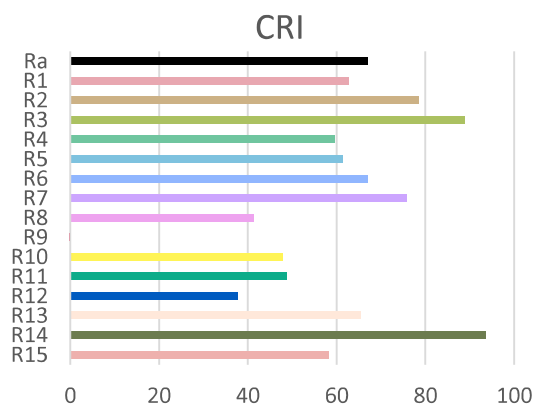
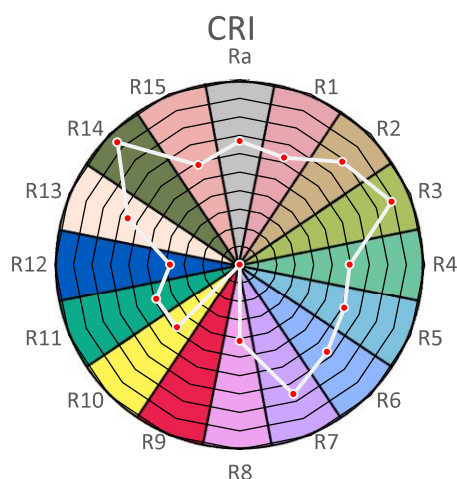
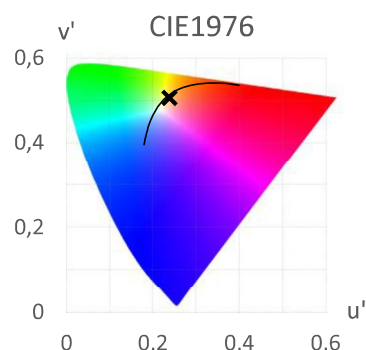
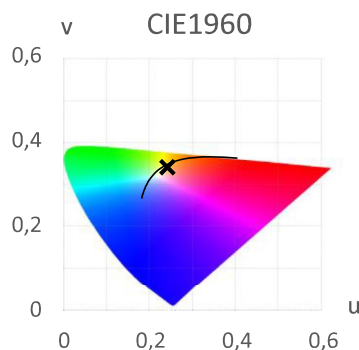
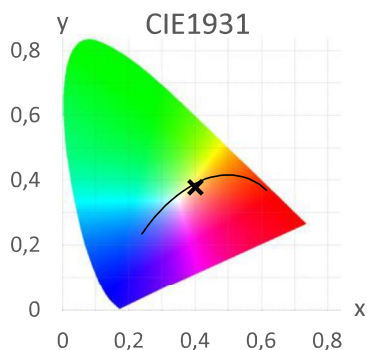
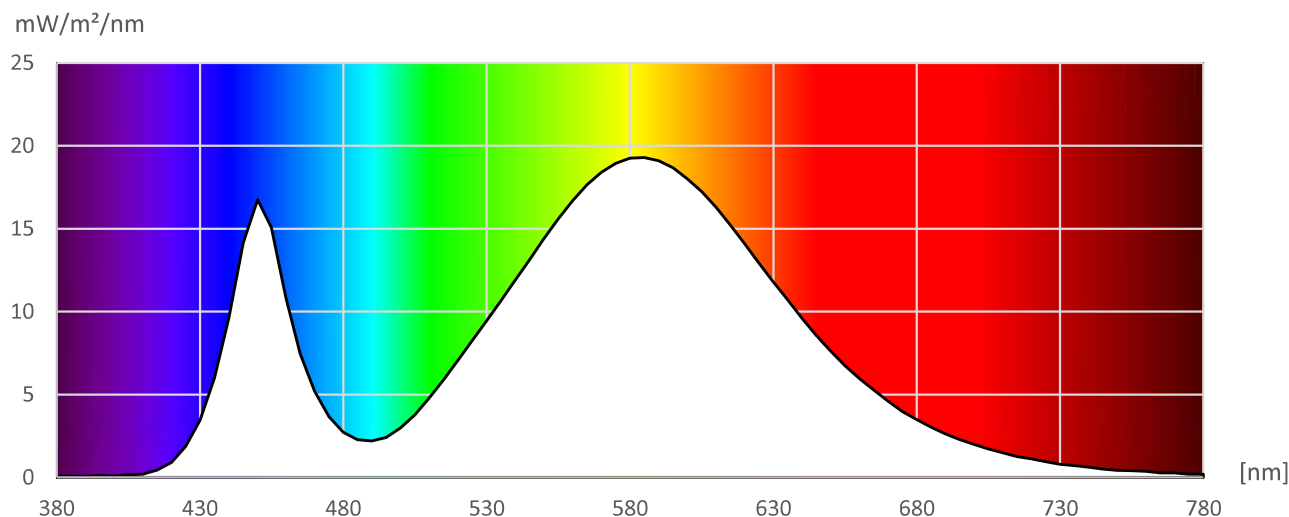
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Octagon Theater CW/WW 36x1W
Item 289076 / WW @ 3 m

Measurement file: ww_3m.CSV
Date of measurement: 30.01.2018
Time of measurement: 10:59:22



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Burgebrach, 26.01.2018

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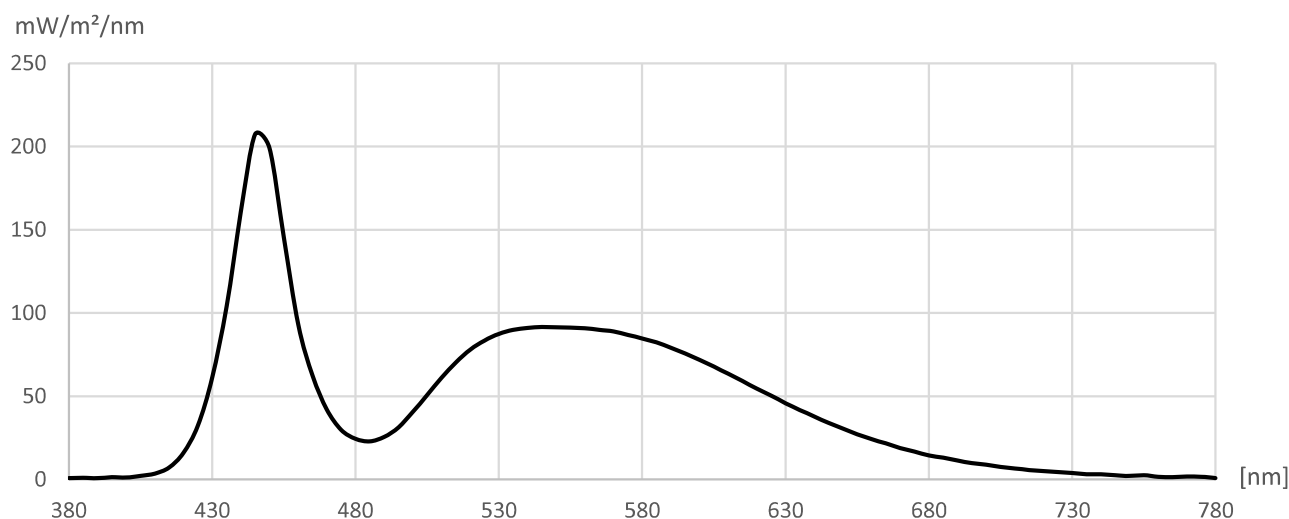
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Octagon Theater CW/WW 36x1W
Item 289076 / CW @ 1 m

Measurement file: cw_1m.CSV
Date of measurement: 30.01.2018
Time of measurement: 10:57:19



R1 = 76,1	Ra = 75,2	Illuminance	5575,28 lx	CIE1931
R2 = 77,1	Re = 66,5	Ee	18,284 W/m ²	x = 0,3045
R3 = 74,7	GAI = 93,2	LER	304,9 lm/W	y = 0,3110
R4 = 78,0				
R5 = 76,9		correlated color temperature (CCT)	7201 K	CIE1976
R6 = 68,5		Duv	-0,0019	u' = 0,1989
R7 = 81,2				v' = 0,4571
R8 = 68,9		Saturation	12 %	
R9 = -4,3				CIE1960
R10 = 42,8		Dominant wavelength	478 nm	u = 0,1989
R11 = 77,6		Peak wavelength	447 nm	v = 0,3047
R12 = 46,5				
R13 = 75,3		Flicker frequency	% < 2.5 Hz	TM30
R14 = 85,6		Percent Flicker	< 2.5 %	Rf = -
R15 = 72,8		Flicker index	% < 2.5	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	0,76	440	160,29	500	40,48	560	90,87	620	54,52	680	14,47	740	3,04
385	0,93	445	207,33	505	50,76	565	89,86	625	50,40	685	13,04	745	2,50
390	0,75	450	199,11	510	61,01	570	88,93	630	45,76	690	11,38	750	2,07
395	1,33	455	145,41	515	70,30	575	86,90	635	41,77	695	9,79	755	2,53
400	1,12	460	93,06	520	78,03	580	84,68	640	37,85	700	8,80	760	1,58
405	2,10	465	62,24	525	83,44	585	82,32	645	34,02	705	7,53	765	1,39
410	3,59	470	42,15	530	87,48	590	79,19	650	30,53	710	6,62	770	1,81
415	7,19	475	29,82	535	89,80	595	75,63	655	27,13	715	5,64	775	1,67
420	15,95	480	24,39	540	91,00	600	71,88	660	24,23	720	4,97	780	0,82
425	32,28	485	22,86	545	91,63	605	67,75	665	21,65	725	4,42		
430	61,19	490	25,58	550	91,40	610	63,54	670	18,93	730	3,95		
435	103,91	495	31,40	555	91,17	615	59,16	675	16,78	735	3,21		

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Burgebrach, 30.01.2018

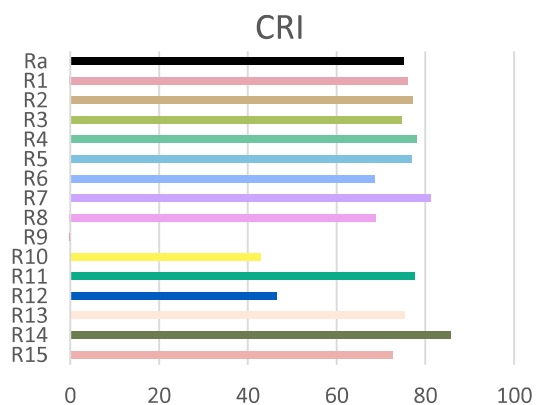
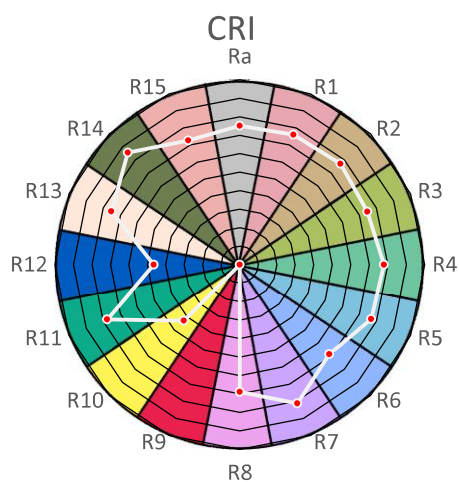
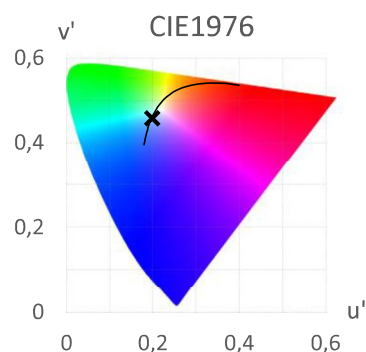
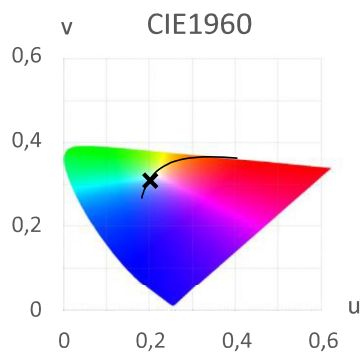
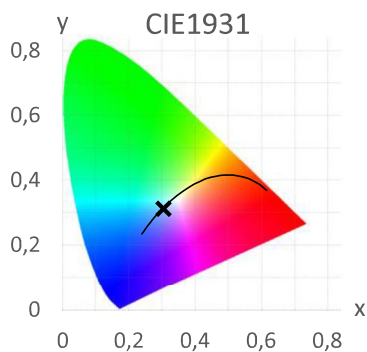
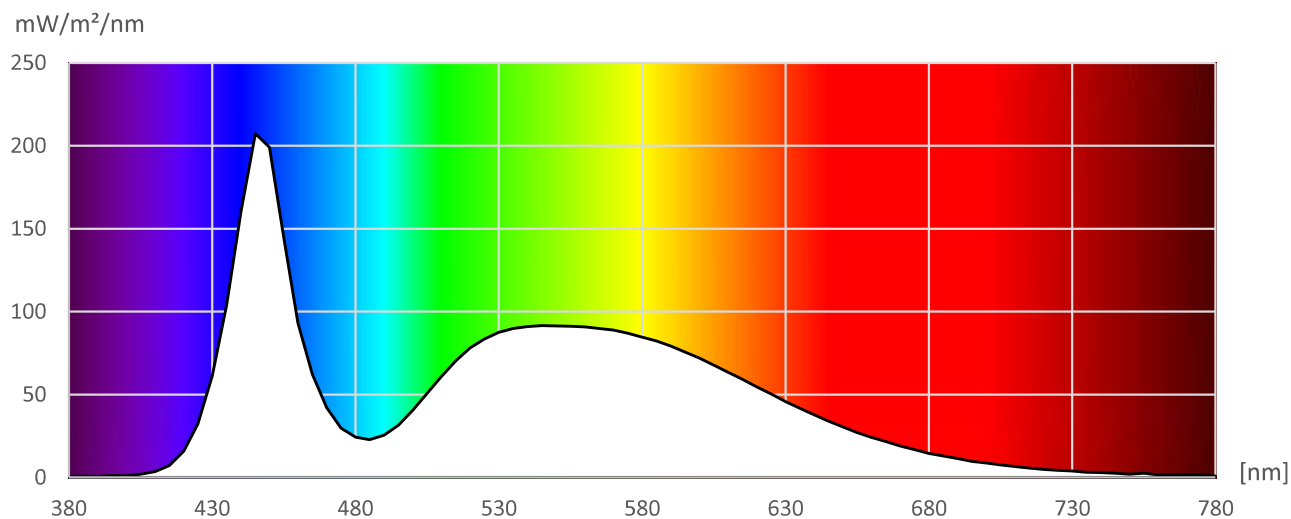
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Octagon Theater CW/WW 36x1W
Item 289076 / CW @ 1 m

Measurement file: cw_1m.CSV
Date of measurement: 30.01.2018
Time of measurement: 10:57:19



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Burgebrach, 26.01.2018

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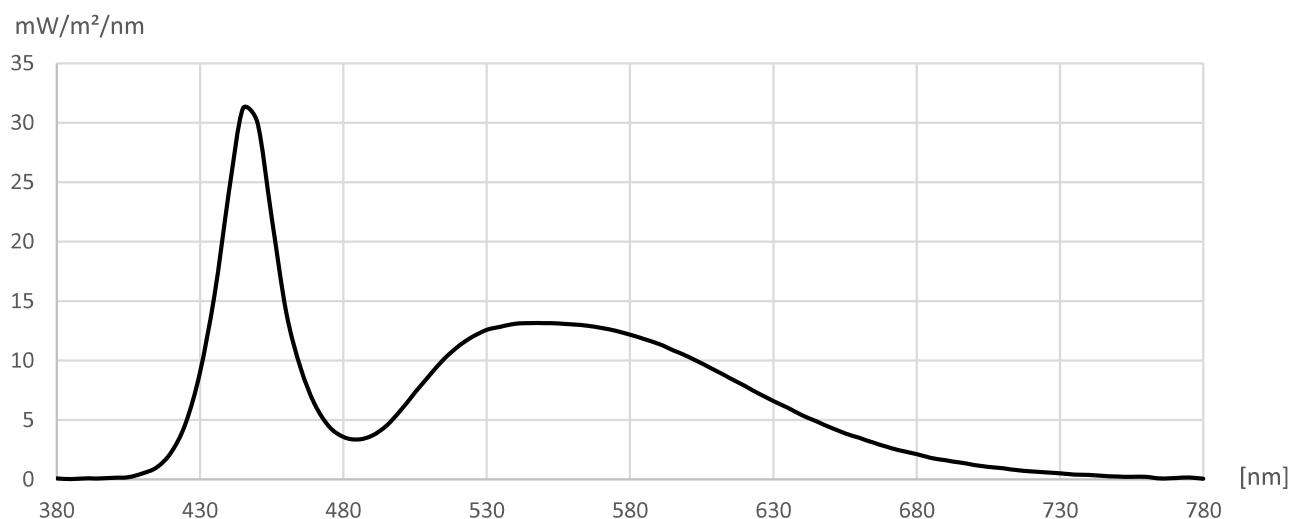
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Octagon Theater CW/WW 36x1W
Item 289076 / CW @ 3 m

Measurement file: cw_3m_1.CSV
Date of measurement: 30.01.2018
Time of measurement: 10:57:40



R1 = 77,3	Ra = 75,7	Illuminance	802,34 lx	CIE1931
R2 = 77,4	Re = 67,4	Ee	2,659 W/m ²	x = 0,3016
R3 = 73,9	GAI = 94,7	LER	301,8 lm/W	y = 0,3052
R4 = 78,9				
R5 = 77,9		correlated color temperature (CCT)	7509 K	CIE1976
R6 = 68,6		Duv	-0,0034	u' = 0,1991
R7 = 81,4				v' = 0,4533
R8 = 70,5		Saturation	13,6 %	
R9 = 0,2				CIE1960
R10 = 43,1		Dominant wavelength	476 nm	u = 0,1991
R11 = 78,7		Peak wavelength	447 nm	v = 0,3022
R12 = 46,6				
R13 = 76,2		Flicker frequency	% < 2.5 Hz	TM30
R14 = 85,1		Percent Flicker	< 2.5 %	Rf = -
R15 = 74,6		Flicker index	% < 2.5	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	0,08	440	23,97	500	5,80	560	13,04	620	7,87	680	2,13	740	0,39
385	0,04	445	31,19	505	7,30	565	12,94	625	7,20	685	1,82	745	0,31
390	0,10	450	30,05	510	8,73	570	12,76	630	6,60	690	1,61	750	0,25
395	0,08	455	22,02	515	10,12	575	12,50	635	6,03	695	1,43	755	0,23
400	0,15	460	14,13	520	11,18	580	12,18	640	5,41	700	1,23	760	0,23
405	0,18	465	9,40	525	11,99	585	11,80	645	4,89	705	1,07	765	0,08
410	0,52	470	6,36	530	12,57	590	11,41	650	4,37	710	0,94	770	0,12
415	1,03	475	4,46	535	12,87	595	10,87	655	3,88	715	0,78	775	0,16
420	2,28	480	3,58	540	13,10	600	10,35	660	3,49	720	0,67	780	0,07
425	4,73	485	3,36	545	13,15	605	9,75	665	3,08	725	0,60		
430	9,04	490	3,69	550	13,14	610	9,15	670	2,71	730	0,52		
435	15,50	495	4,53	555	13,12	615	8,51	675	2,39	735	0,42		

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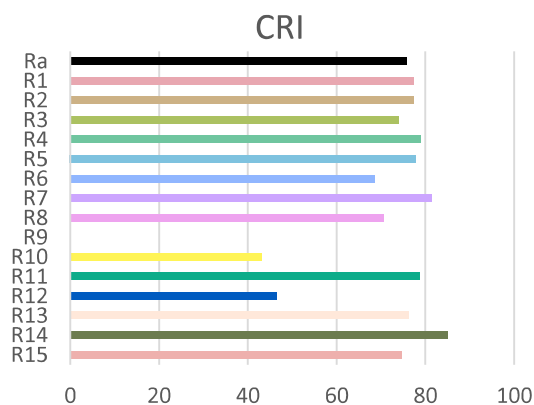
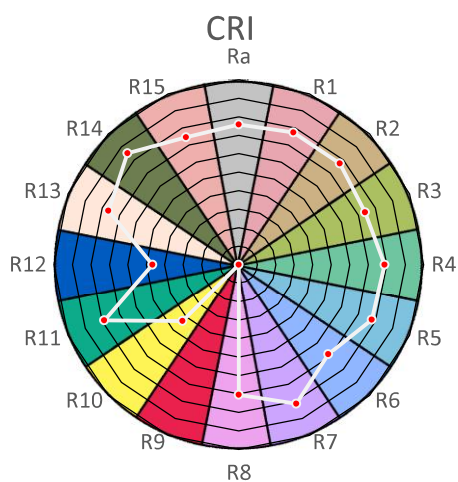
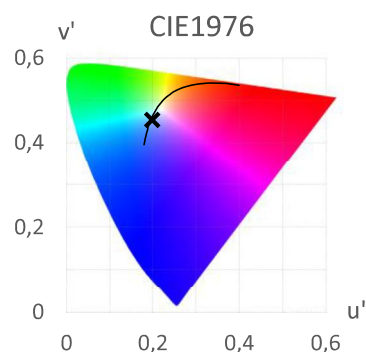
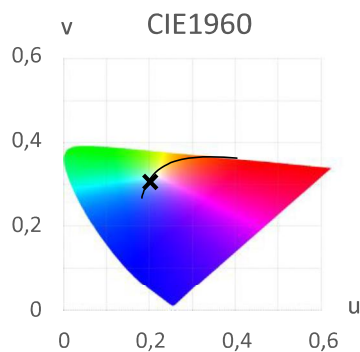
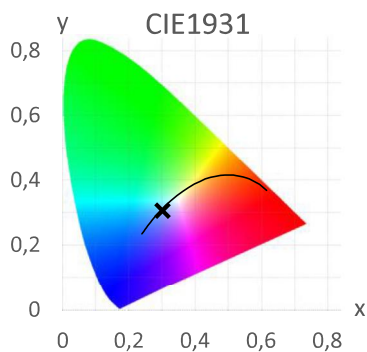
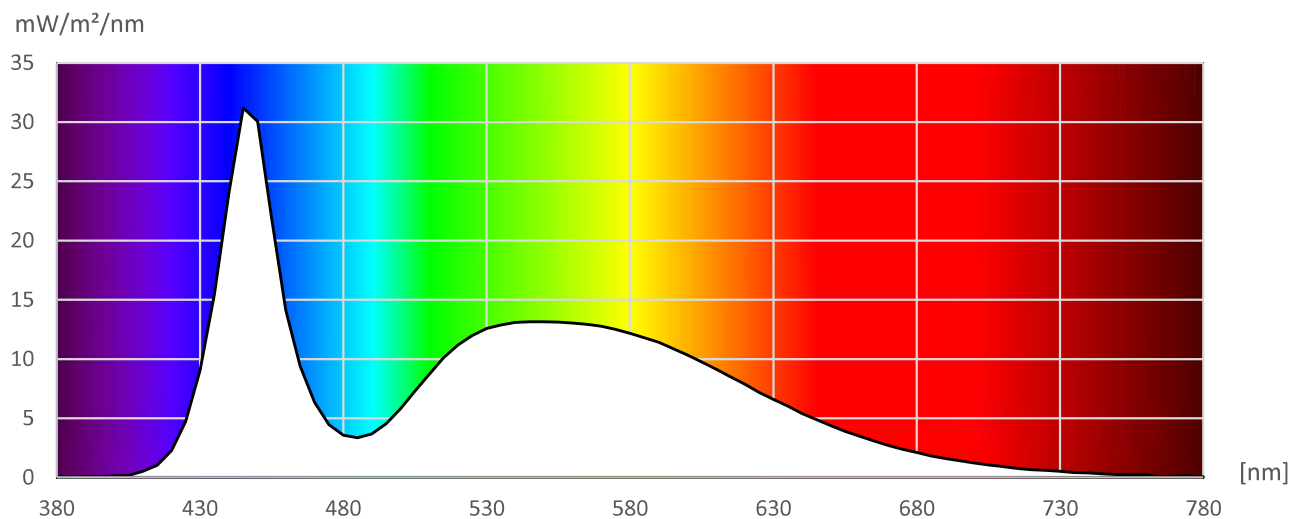
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Octagon Theater CW/WW 36x1W
Item 289076 / CW @ 3 m

Measurement file: cw_3m_1.CSV
Date of measurement: 30.01.2018
Time of measurement: 10:57:40



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Burgebrach, 26.01.2018

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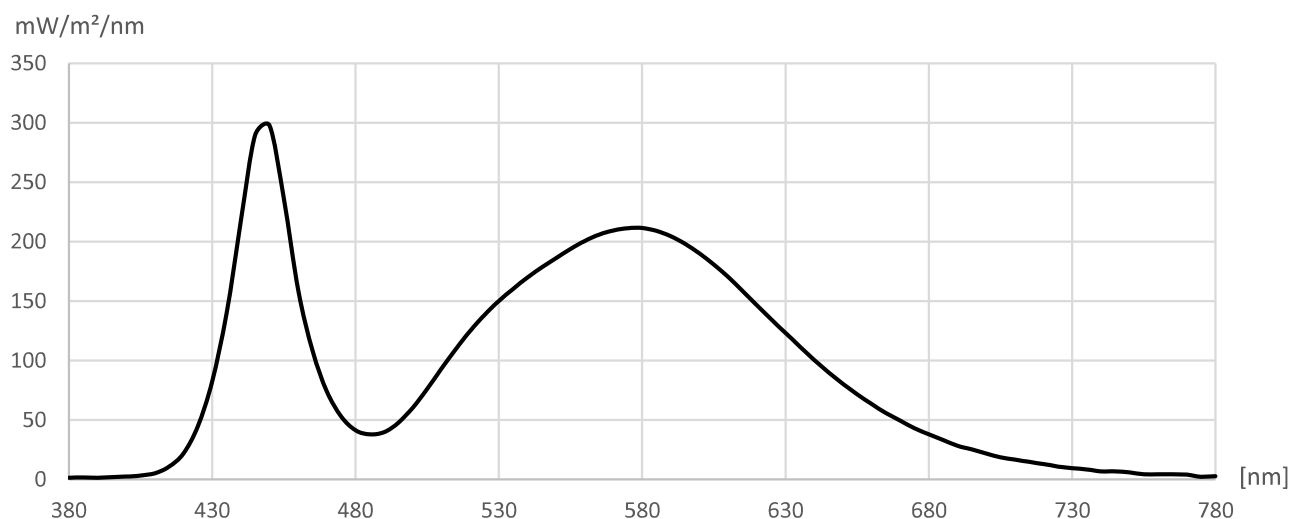
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Octagon Theater CW/WW 36x1W
Item 289076 / CW+WW @ 1 m

Measurement file: all_1m.CSV
Date of measurement: 30.01.2018
Time of measurement: 11:00:21



R1 = 70,7	Ra = 72,7	Illuminance	11952,25 lx	CIE1931
R2 = 79,2	Re = 63,1	Ee	36,313 W/m ²	x = 0,3534
R3 = 83,1	GAI = 82,6	LER	329,1 lm/W	y = 0,3467
R4 = 71,5				
R5 = 70,6		correlated color temperature (CCT)	4660 K	CIE1976
R6 = 68,9		Duv	-0,0058	u' = 0,2191
R7 = 80,9				v' = 0,4835
R8 = 57,0		Saturation	10,1 %	
R9 = -22,1				CIE1960
R10 = 48,3		Dominant wavelength	582 nm	u = 0,2191
R11 = 66,0		Peak wavelength	447 nm	v = 0,3223
R12 = 43,1				
R13 = 72,0		Flicker frequency	% < 2.5 Hz	TM30
R14 = 90,2		Percent Flicker	< 2.5 %	Rf = -
R15 = 67,0		Flicker index	% < 2.5	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	1,50	440	216,75	500	60,29	560	200,65	620	146,62	680	37,94	740	6,77
385	1,81	445	289,54	505	76,05	565	205,94	625	134,66	685	33,09	745	6,82
390	1,51	450	297,81	510	93,31	570	209,49	630	123,04	690	28,25	750	5,94
395	2,06	455	236,39	515	109,72	575	211,39	635	111,89	695	25,38	755	4,38
400	2,36	460	159,14	520	125,10	580	211,44	640	100,64	700	21,77	760	4,30
405	3,34	465	108,05	525	138,24	585	209,08	645	90,22	705	18,65	765	4,25
410	5,22	470	74,29	530	150,08	590	204,54	650	80,53	710	16,65	770	4,00
415	10,75	475	53,10	535	160,31	595	198,04	655	71,68	715	14,75	775	2,34
420	21,91	480	41,37	540	169,95	600	189,94	660	63,40	720	12,96	780	2,75
425	44,72	485	38,02	545	178,51	605	180,70	665	56,06	725	10,94		
430	82,48	490	39,82	550	186,23	610	170,35	670	49,46	730	9,58		
435	139,83	495	47,91	555	193,80	615	158,62	675	43,01	735	8,49		

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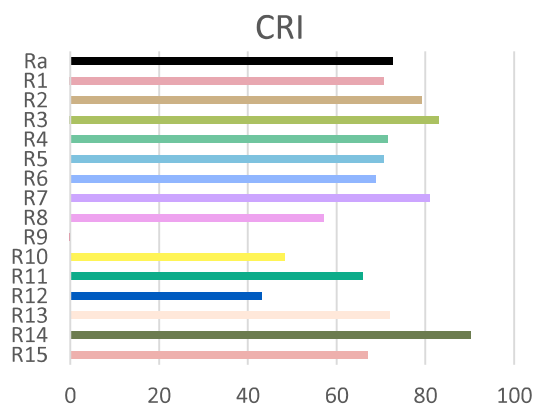
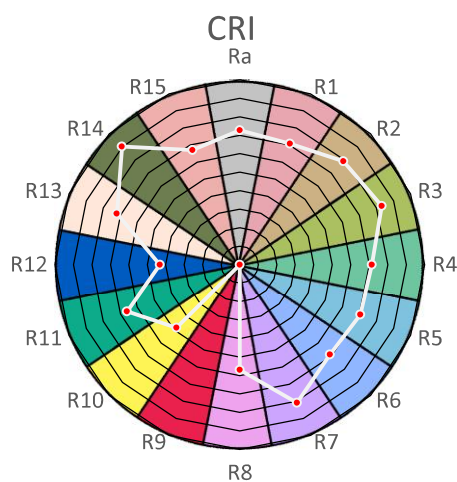
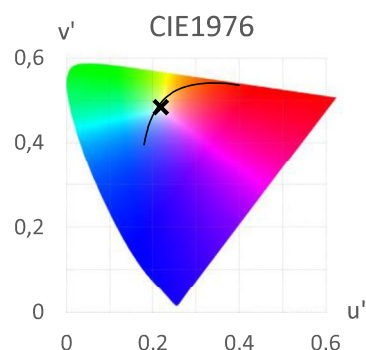
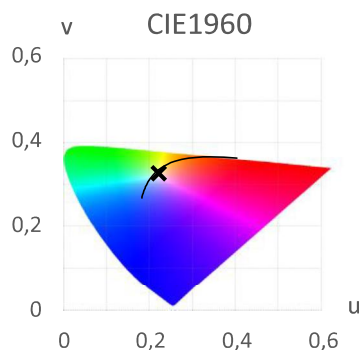
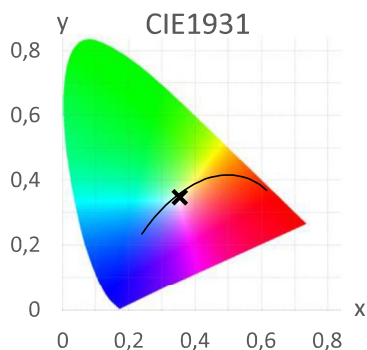
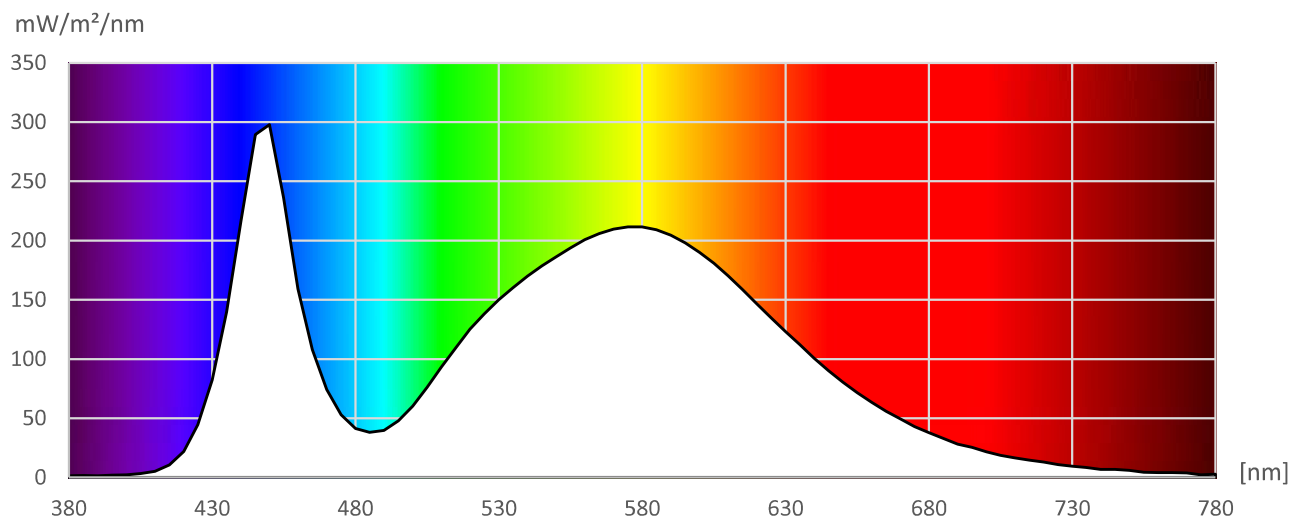
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Octagon Theater CW/WW 36x1W
Item 289076 / CW+WW @ 1 m

Measurement file: all_1m.CSV
Date of measurement: 30.01.2018
Time of measurement: 11:00:21



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Burgebrach, 26.01.2018

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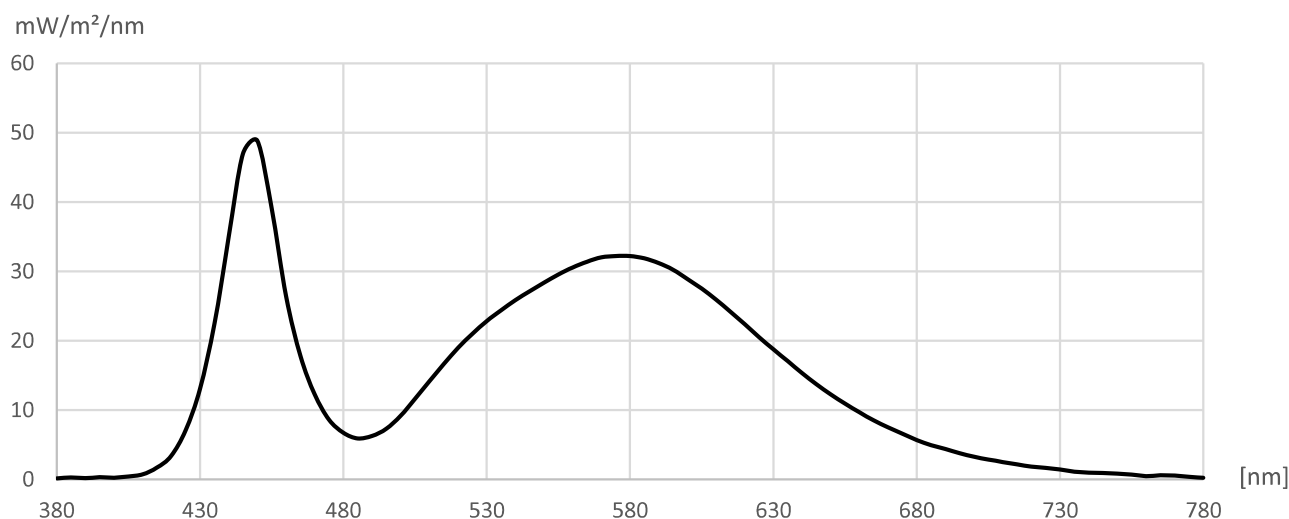
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Octagon Theater CW/WW 36x1W
Item 289076 / CW+WW @ 3 m

Measurement file: all_3m.CSV
Date of measurement: 30.01.2018
Time of measurement: 11:00:41



R1 = 72,1	Ra = 73,6	Illuminance	1823,85 lx	CIE1931
R2 = 79,9	Re = 64,3	Ee	5,620 W/m ²	x = 0,3488
R3 = 82,7	GAI = 85,4	LER	324,6 lm/W	y = 0,3390
R4 = 72,4				
R5 = 71,8		correlated color temperature (CCT)	4801 K	CIE1976
R6 = 69,4		Duv	-0,008	u' = 0,2190
R7 = 81,1				v' = 0,4789
R8 = 58,9		Saturation	6,3 %	
R9 = -17,4				CIE1960
R10 = 49,4		Dominant wavelength	590 nm	u = 0,2190
R11 = 66,9		Peak wavelength	447 nm	v = 0,3193
R12 = 44,1				
R13 = 73,2		Flicker frequency	% < 2.5 Hz	TM30
R14 = 90,0		Percent Flicker	< 2.5 %	Rf = -
R15 = 69,3		Flicker index	% < 2.5	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	0,17	440	34,84	500	9,16	560	30,57	620	22,39	680	5,68	740	0,98
385	0,27	445	46,96	505	11,60	565	31,40	625	20,53	685	4,95	745	0,93
390	0,18	450	48,83	510	14,15	570	32,02	630	18,74	690	4,40	750	0,83
395	0,32	455	39,07	515	16,63	575	32,21	635	17,05	695	3,80	755	0,70
400	0,25	460	26,40	520	19,00	580	32,21	640	15,36	700	3,27	760	0,49
405	0,44	465	17,79	525	20,97	585	31,88	645	13,74	705	2,88	765	0,60
410	0,74	470	12,31	530	22,83	590	31,21	650	12,28	710	2,52	770	0,55
415	1,70	475	8,63	535	24,38	595	30,24	655	10,93	715	2,16	775	0,38
420	3,42	480	6,74	540	25,86	600	28,89	660	9,67	720	1,87	780	0,23
425	7,10	485	5,92	545	27,16	605	27,50	665	8,53	725	1,66		
430	13,09	490	6,27	550	28,38	610	25,94	670	7,51	730	1,42		
435	22,44	495	7,32	555	29,54	615	24,21	675	6,61	735	1,14		

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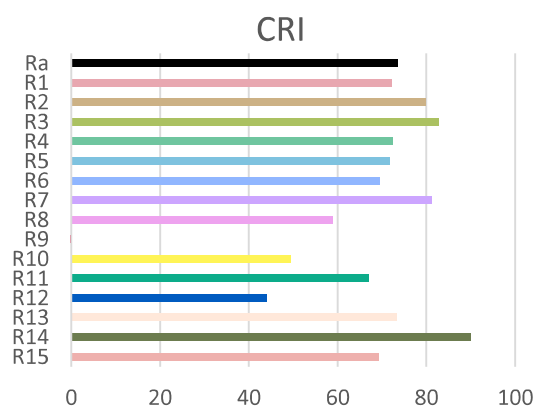
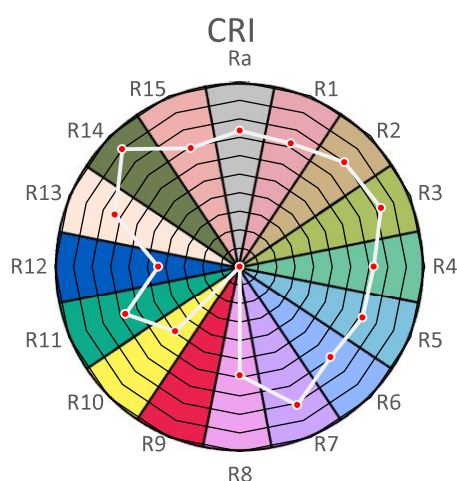
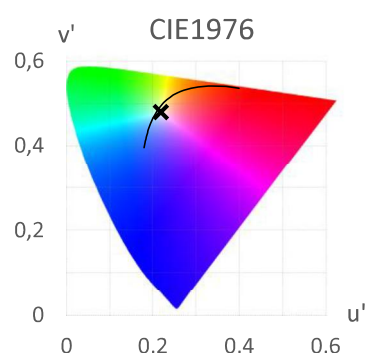
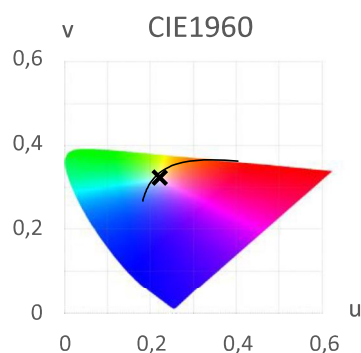
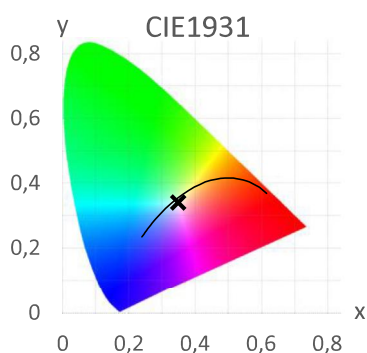
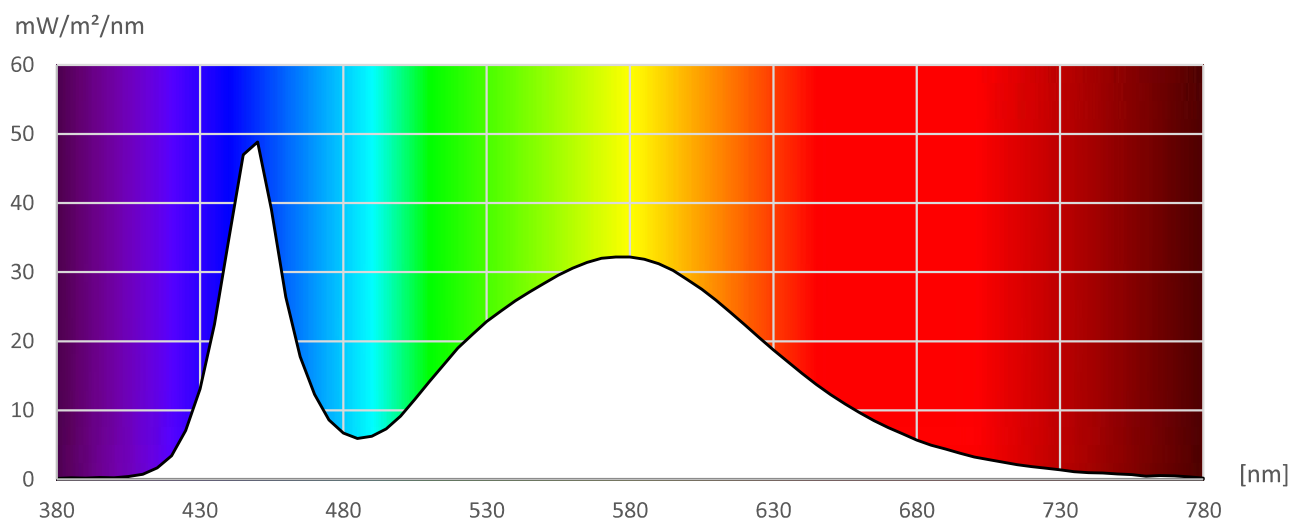
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Octagon Theater CW/WW 36x1W
Item 289076 / CW+WW @ 3 m

Measurement file: all_3m.CSV
Date of measurement: 30.01.2018
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