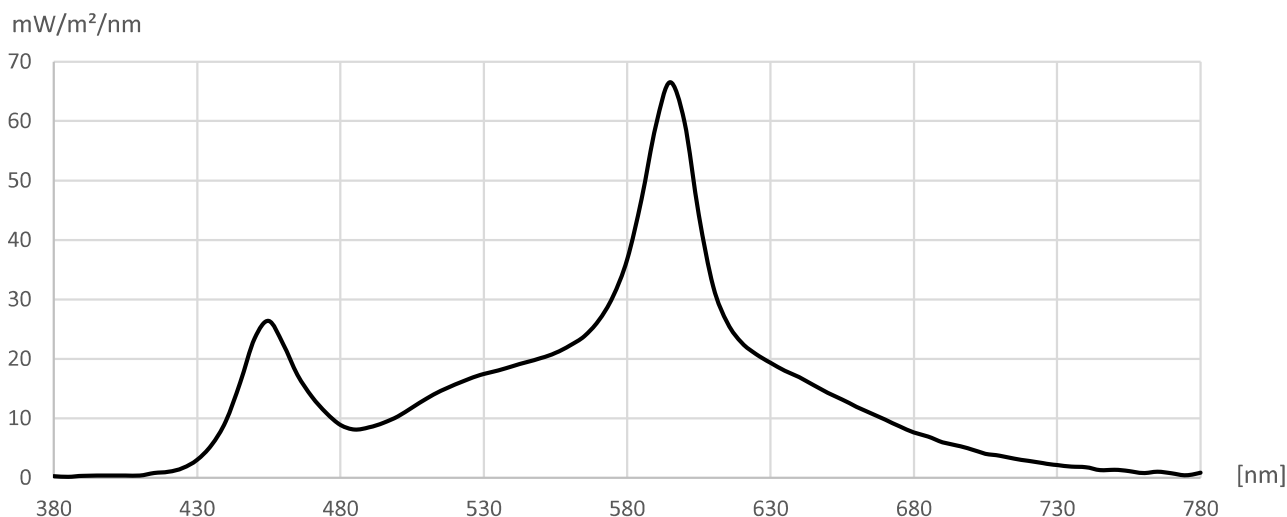


Measurement protocol

th.mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 1 m / all

Measurement file: 402319_1m_all.CSV
Date of measurement: 11.07.2018
Time of measurement: 09:32:58



R1 = 63,2	Ra = 64,2	Illuminance	1907,83 lx	CIE1931
R2 = 89,8	Re = 55,5	Ee	5,512 W/m ²	x = 0,4282
R3 = 78,8	GAI = 55,7	LER	346,1 lm/W	y = 0,3828
R4 = 58,6				
R5 = 66,9		correlated color temperature (CCT)	2960 K	CIE1976
R6 = 88,5		Duv	-0,0075	u' = 0,2542
R7 = 57,5				v' = 0,5114
R8 = 10,5		Saturation	43,5 %	
R9 = -98,2				CIE1960
R10 = 80,0		Dominant wavelength	585 nm	u = 0,2542
R11 = 59,4		Peak wavelength	596 nm	v = 0,3409
R12 = 71,7				
R13 = 72,0		Flicker frequency	% < 2.5 Hz	TM30
R14 = 87,9		Percent Flicker	< 2.5 %	Rf = 69,2
R15 = 45,4		Flicker index	% < 2.5	Rg = 87,5

[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	0,24	440	9,51	500	10,29	560	22,25	620	22,67	680	7,64	740	1,78
385	0,16	445	15,99	505	11,83	565	23,80	625	20,82	685	6,92	745	1,28
390	0,33	450	23,43	510	13,30	570	26,37	630	19,33	690	5,98	750	1,33
395	0,34	455	26,37	515	14,61	575	30,39	635	18,01	695	5,43	755	1,13
400	0,36	460	22,54	520	15,67	580	36,71	640	16,90	700	4,79	760	0,77
405	0,37	465	17,32	525	16,65	585	46,87	645	15,55	705	4,04	765	1,00
410	0,38	470	13,66	530	17,46	590	59,28	650	14,31	710	3,70	770	0,74
415	0,79	475	10,89	535	18,03	595	66,56	655	13,17	715	3,21	775	0,40
420	1,00	480	8,87	540	18,76	600	59,91	660	11,94	720	2,84	780	0,83
425	1,64	485	8,11	545	19,46	605	44,25	665	10,86	725	2,45		
430	3,00	490	8,47	550	20,14	610	32,19	670	9,77	730	2,11		
435	5,46	495	9,24	555	20,98	615	25,99	675	8,64	735	1,86		

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

Sebastian Laske

Burgebrach, 11.07.2018

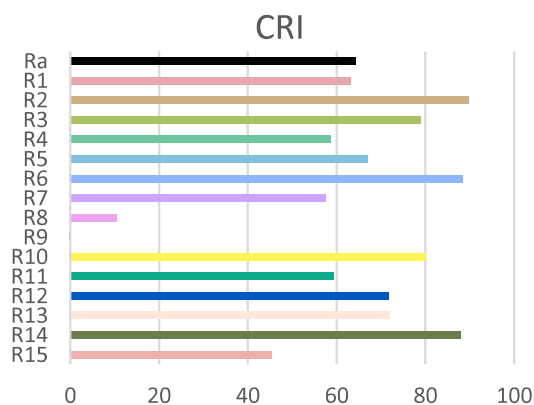
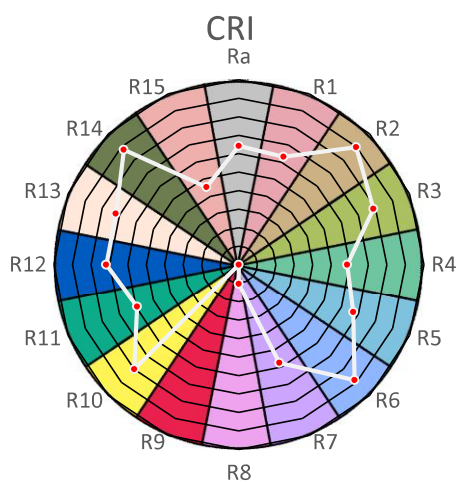
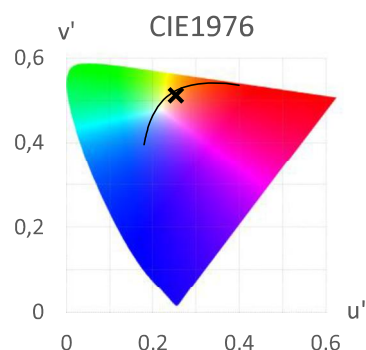
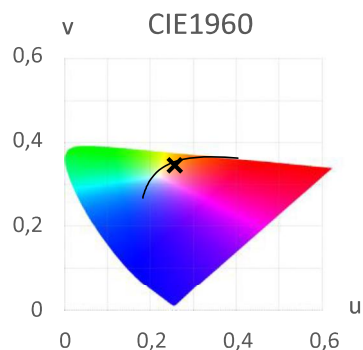
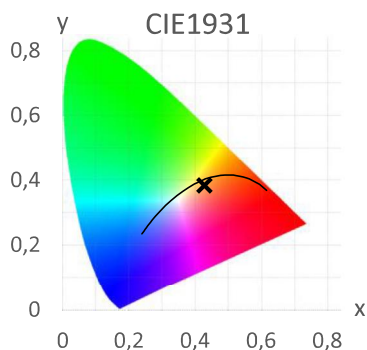
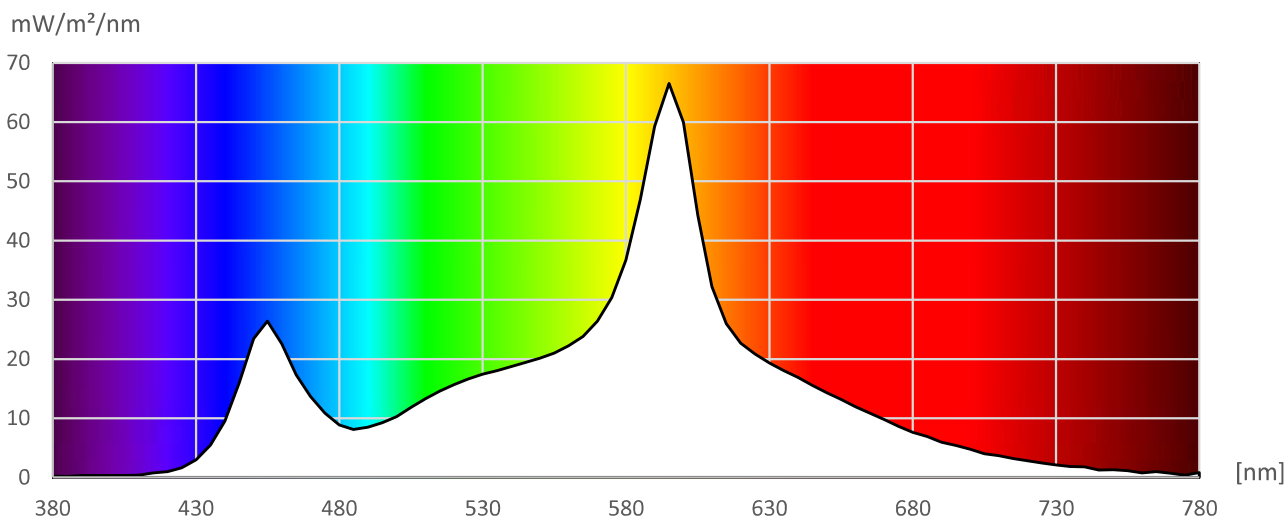
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 1 m / all

Measurement file: 402319_1m_all.CS
Date of measurement: 11.07.2018
Time of measurement: 09:32:58



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

Burgebrach, 11.07.2018

Sebastian Laske

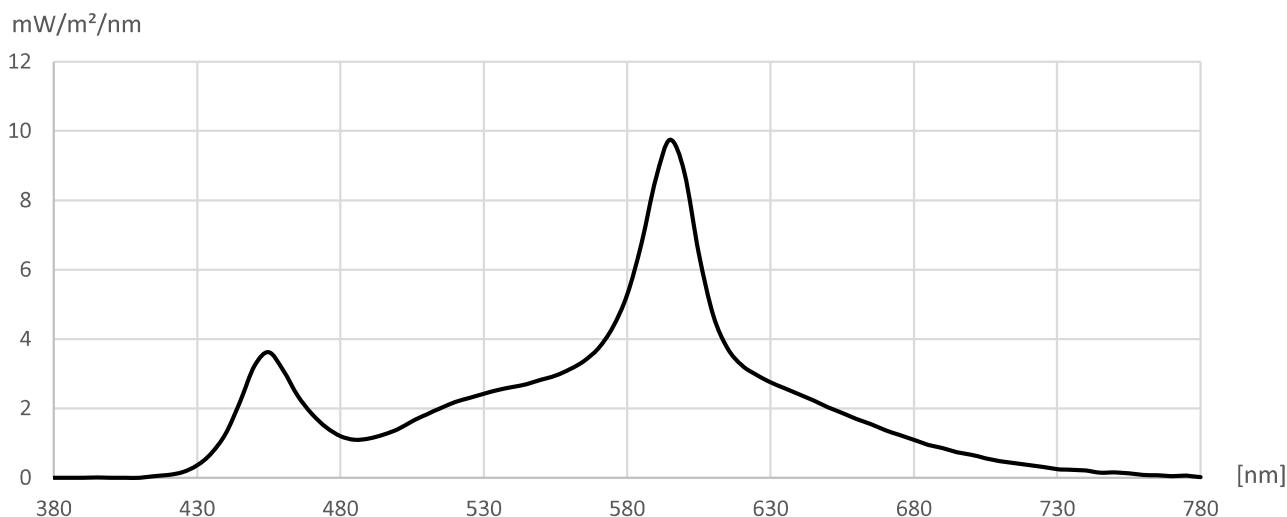
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 3 m / all

Measurement file: 402319_3m_all.CSV
Date of measurement: 11.07.2018
Time of measurement: 09:33:29



R1 = 61,7	Ra = 62,9	Illuminance	272,05 lx	CIE1931
R2 = 89,2	Re = 53,9	Ee	0,775 W/m ²	x = 0,4338
R3 = 78,2	GAI = 53,5	LER	351,1 lm/W	y = 0,3850
R4 = 57,0				
R5 = 65,4		correlated color temperature (CCT)	2888 K	CIE1976
R6 = 88,1		Duv	-0,0073	u' = 0,2570
R7 = 56,2				v' = 0,5132
R8 = 7,6		Saturation	45,4 %	
R9 = #####				CIE1960
R10 = 79,1		Dominant wavelength	586 nm	u = 0,2570
R11 = 57,7		Peak wavelength	596 nm	v = 0,3421
R12 = 70,7				
R13 = 70,7		Flicker frequency	% < 2.5 Hz	TM30
R14 = 87,5		Percent Flicker	< 2.5 %	Rf = 68,1
R15 = 43,4		Flicker index	% < 2.5	Rg = 86,9

[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	0,00	440	1,28	500	1,40	560	3,13	620	3,24	680	1,09	740	0,21
385	0,00	445	2,20	505	1,63	565	3,37	625	2,97	685	0,95	745	0,14
390	0,00	450	3,23	510	1,83	570	3,73	630	2,75	690	0,85	750	0,15
395	0,00	455	3,62	515	2,01	575	4,34	635	2,57	695	0,74	755	0,13
400	0,00	460	3,11	520	2,18	580	5,27	640	2,41	700	0,66	760	0,09
405	0,00	465	2,37	525	2,31	585	6,76	645	2,23	705	0,56	765	0,07
410	0,00	470	1,84	530	2,42	590	8,64	650	2,04	710	0,48	770	0,05
415	0,05	475	1,45	535	2,54	595	9,75	655	1,87	715	0,43	775	0,06
420	0,08	480	1,20	540	2,62	600	8,80	660	1,70	720	0,36	780	0,01
425	0,16	485	1,09	545	2,70	605	6,47	665	1,55	725	0,31		
430	0,35	490	1,13	550	2,83	610	4,69	670	1,37	730	0,25		
435	0,71	495	1,24	555	2,94	615	3,73	675	1,23	735	0,23		

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

Sebastian Laske

Burgebrach, 11.07.2018

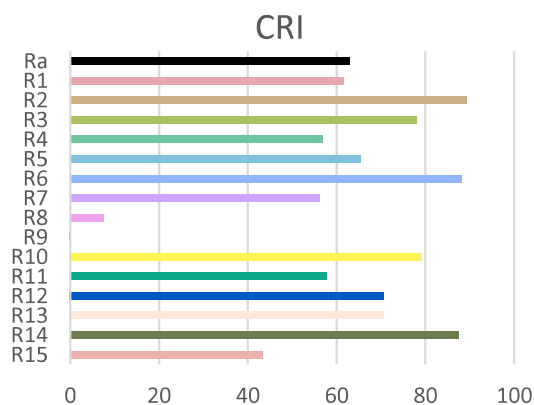
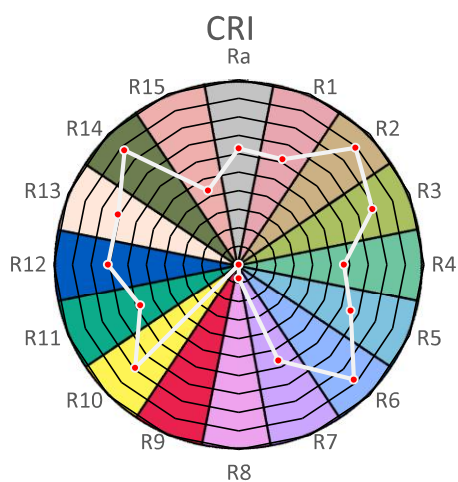
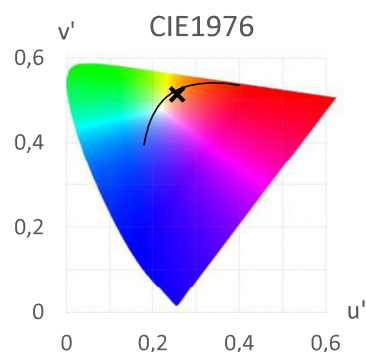
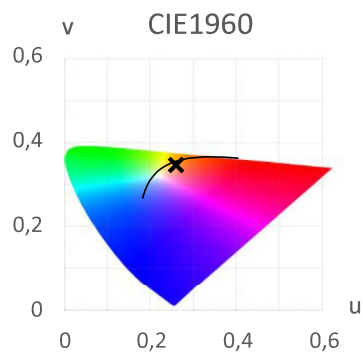
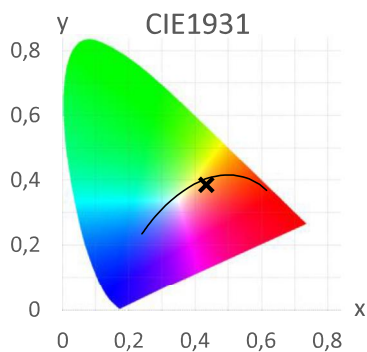
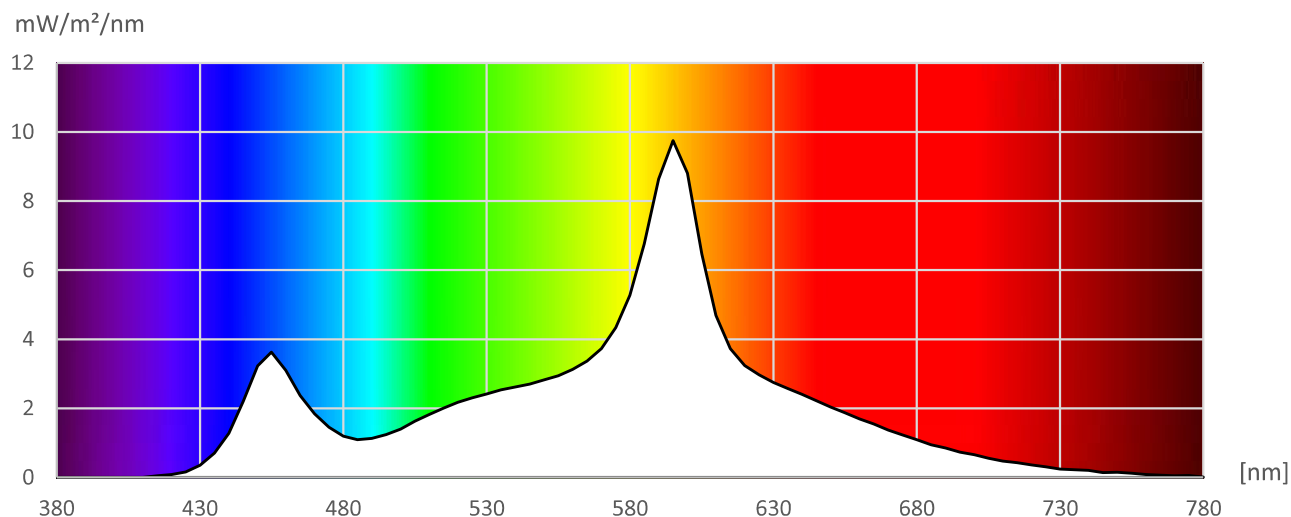
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 3 m / all

Measurement file: 402319_3m_all.CS
Date of measurement: 11.07.2018
Time of measurement: 09:33:29



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

Burgebrach, 11.07.2018

Sebastian Laske

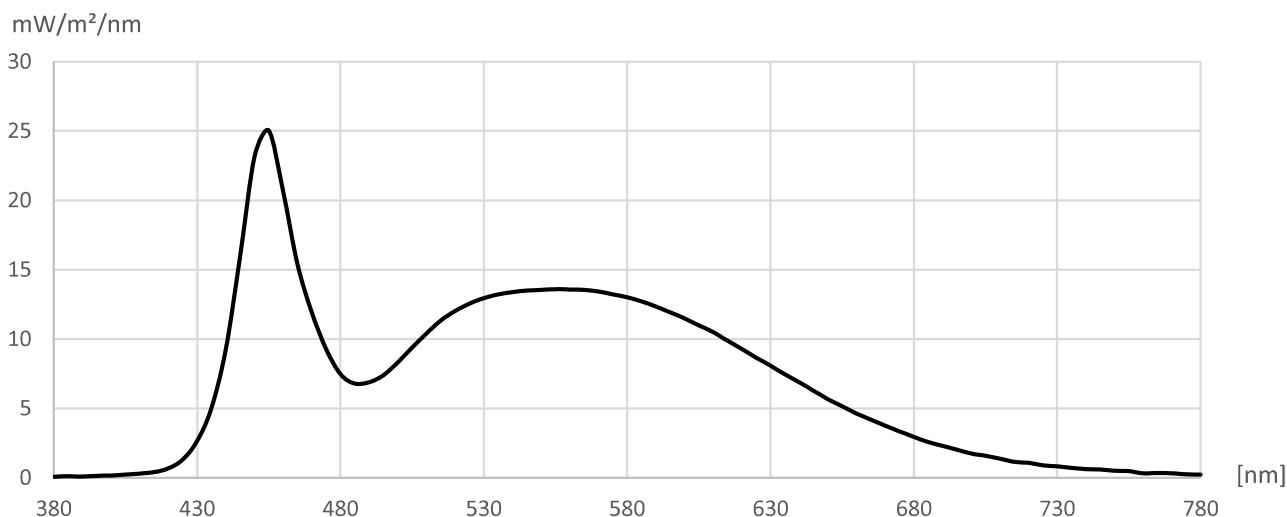
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 1 m / CW

Measurement file: 402319_1m_cw.CSV
Date of measurement: 11.07.2018
Time of measurement: 09:33:48



R1 = 79,2	Ra = 81,9	Illuminance	871,85 lx	CIE1931
R2 = 87,6	Re = 74,1	Ee	2,787 W/m ²	x = 0,3187
R3 = 91,8	GAI = 83,9	LER	312,8 lm/W	y = 0,3416
R4 = 79,0				
R5 = 79,2		correlated color temperature (CCT)	6129 K	CIE1976
R6 = 81,6		Duv	0,0067	u' = 0,1973
R7 = 88,3				v' = 0,4758
R8 = 68,4		Saturation	4,5 %	
R9 = 5,5				CIE1960
R10 = 69,3		Dominant wavelength	497 nm	u = 0,1973
R11 = 76,7		Peak wavelength	454 nm	v = 0,3172
R12 = 53,6				
R13 = 81,7		Flicker frequency	% < 2.5 Hz	TM30
R14 = 95,7		Percent Flicker	< 2.5 %	Rf = 79,8
R15 = 74,1		Flicker index	% < 2.5	Rg = 93,3

[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	0,07	440	9,25	500	8,31	560	13,57	620	9,29	680	2,94	740	0,62
385	0,11	445	16,00	505	9,40	565	13,53	625	8,67	685	2,57	745	0,59
390	0,08	450	23,16	510	10,40	570	13,43	630	8,08	690	2,30	750	0,50
395	0,14	455	25,04	515	11,33	575	13,22	635	7,45	695	2,03	755	0,47
400	0,17	460	20,68	520	12,02	580	13,02	640	6,89	700	1,74	760	0,33
405	0,23	465	15,41	525	12,55	585	12,71	645	6,27	705	1,58	765	0,34
410	0,31	470	11,91	530	12,95	590	12,34	650	5,67	710	1,37	770	0,33
415	0,41	475	9,26	535	13,21	595	11,94	655	5,16	715	1,15	775	0,24
420	0,68	480	7,46	540	13,37	600	11,49	660	4,63	720	1,07	780	0,22
425	1,32	485	6,79	545	13,50	605	10,98	665	4,20	725	0,89		
430	2,63	490	6,88	550	13,55	610	10,50	670	3,76	730	0,81		
435	5,02	495	7,40	555	13,60	615	9,87	675	3,35	735	0,71		

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

Sebastian Laske

Burgebrach, 11.07.2018

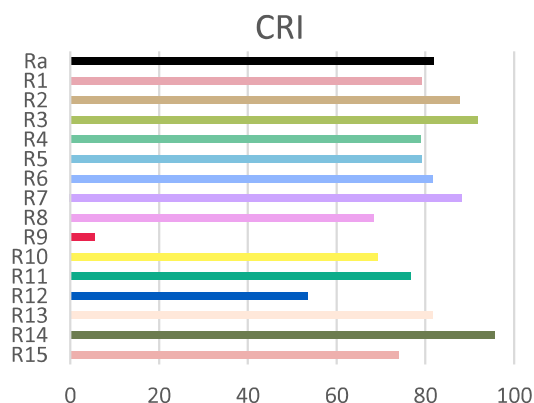
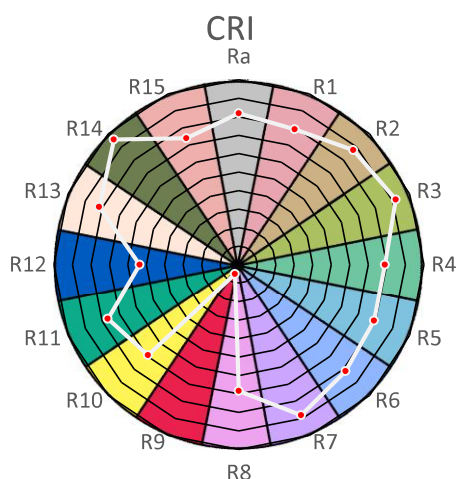
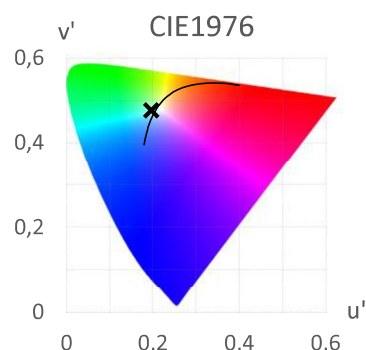
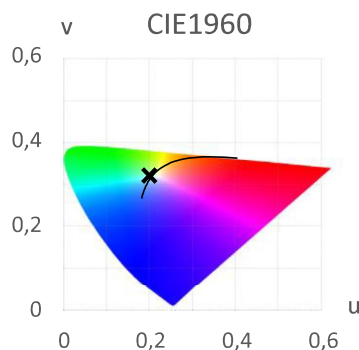
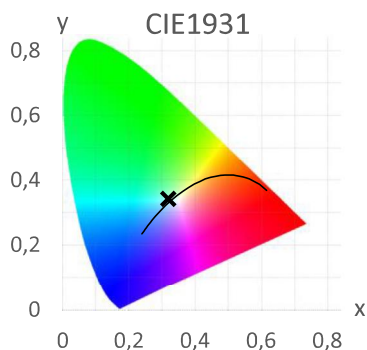
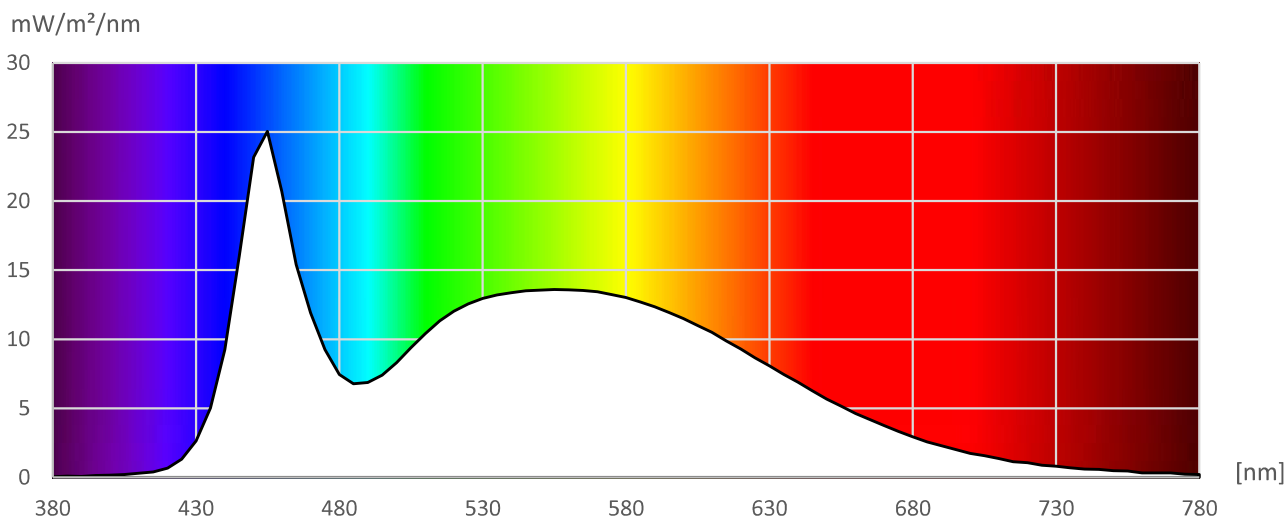
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 1 m / CW

Measurement file: 402319_1m_cw.CS
Date of measurement: 11.07.2018
Time of measurement: 09:33:48



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

Burgebrach, 11.07.2018

Sebastian Laske

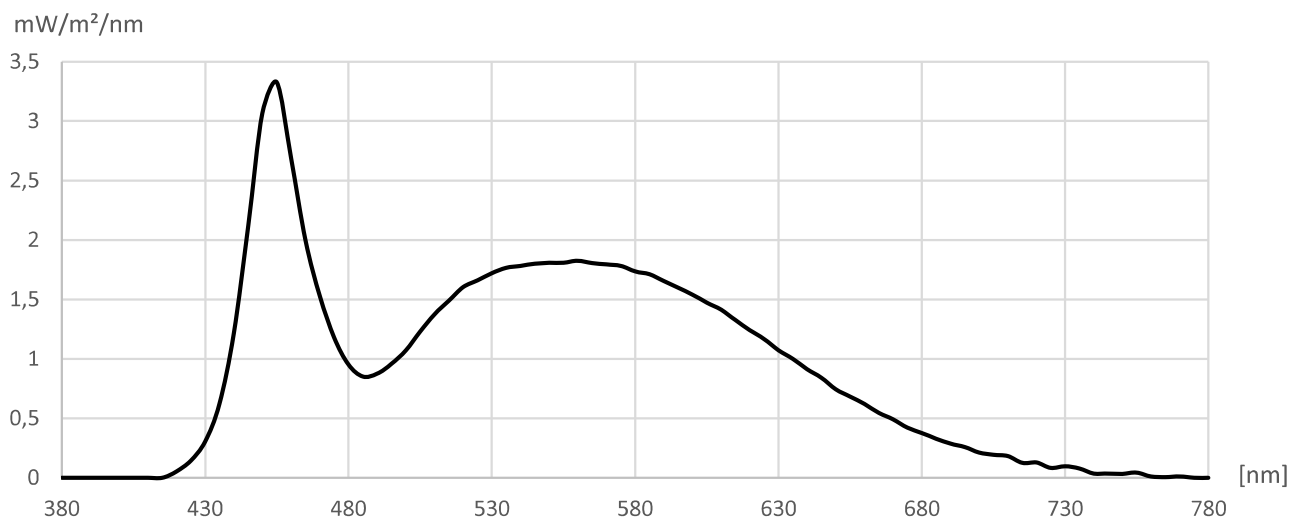
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 3 m / CW

Measurement file: 402319_3m_cw.CSV
Date of measurement: 11.07.2018
Time of measurement: 09:34:12



R1 = 78,5	Ra = 81,3	Illuminance	116,14 lx	CIE1931
R2 = 87,0	Re = 73,2	Ee	0,365 W/m ²	x = 0,3211
R3 = 91,5	GAI = 83,0	LER	318,6 lm/W	y = 0,3443
R4 = 78,4				
R5 = 78,5		correlated color temperature (CCT)	6004 K	CIE1976
R6 = 80,8		Duv	0,0069	u' = 0,1979
R7 = 88,0				v' = 0,4775
R8 = 67,4		Saturation	3,7 %	
R9 = 2,5				CIE1960
R10 = 68,0		Dominant wavelength	502 nm	u = 0,1979
R11 = 76,1		Peak wavelength	454 nm	v = 0,3184
R12 = 52,3				
R13 = 81,0		Flicker frequency	% < 2.5 Hz	TM30
R14 = 95,5		Percent Flicker	< 2.5 %	Rf = 79,3
R15 = 73,1		Flicker index	% < 2.5	Rg = 93,1

[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	1,22	500	1,07	560	1,83	620	1,24	680	0,38	740	0,04
385	0,00	445	2,12	505	1,23	565	1,81	625	1,17	685	0,33	745	0,04
390	0,00	450	3,07	510	1,37	570	1,79	630	1,07	690	0,29	750	0,03
395	0,00	455	3,33	515	1,49	575	1,78	635	1,00	695	0,26	755	0,04
400	0,00	460	2,69	520	1,60	580	1,73	640	0,91	700	0,21	760	0,01
405	0,00	465	2,00	525	1,66	585	1,71	645	0,84	705	0,19	765	0,01
410	0,00	470	1,52	530	1,72	590	1,66	650	0,74	710	0,18	770	0,01
415	0,00	475	1,18	535	1,76	595	1,60	655	0,68	715	0,13	775	0,00
420	0,05	480	0,95	540	1,78	600	1,54	660	0,62	720	0,13	780	0,00
425	0,14	485	0,85	545	1,80	605	1,47	665	0,54	725	0,08		
430	0,30	490	0,87	550	1,81	610	1,41	670	0,49	730	0,10		
435	0,62	495	0,96	555	1,81	615	1,33	675	0,42	735	0,08		

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

Sebastian Laske

Burgebrach, 11.07.2018

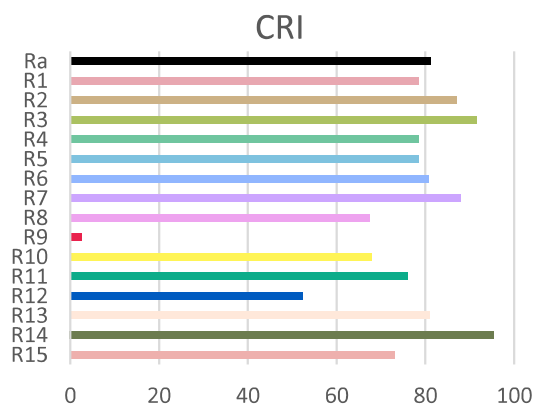
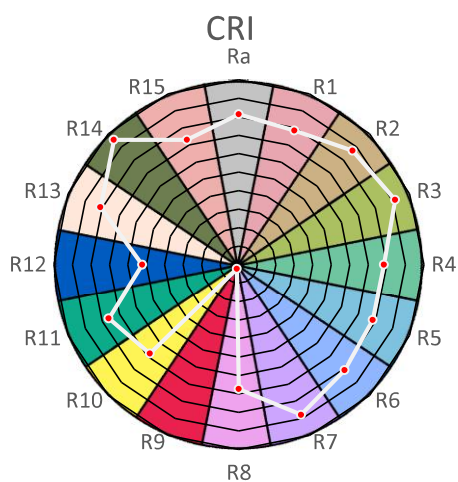
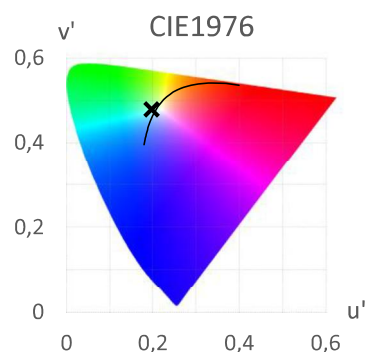
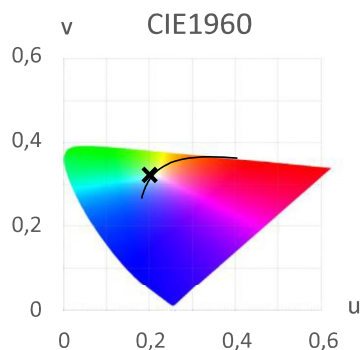
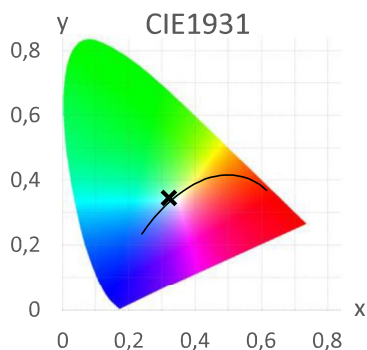
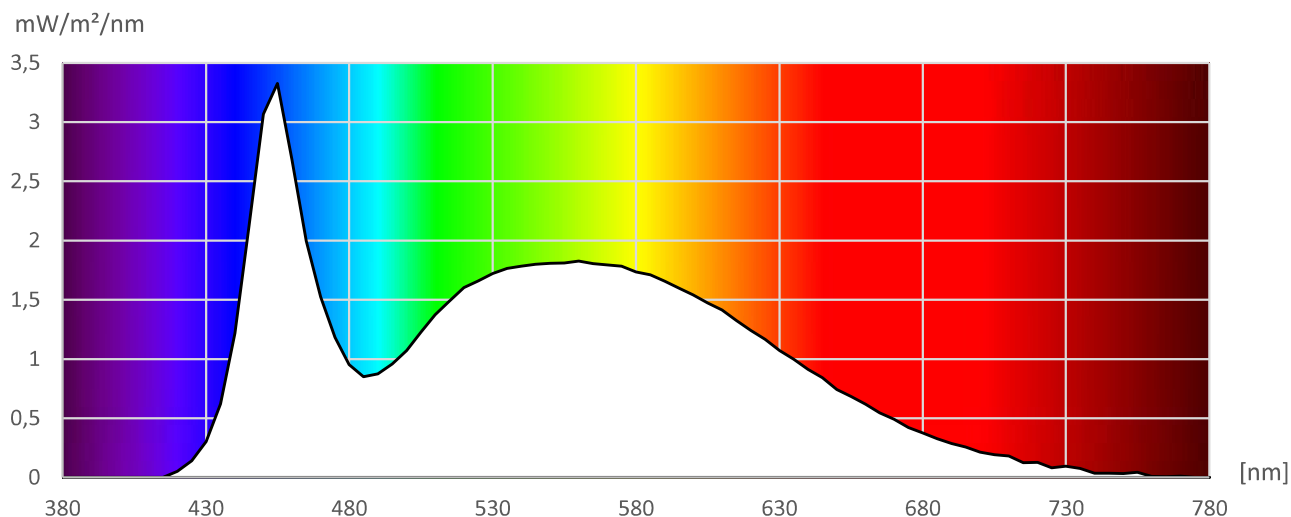
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 3 m / CW

Measurement file: 402319_3m_cw.CS
Date of measurement: 11.07.2018
Time of measurement: 09:34:12



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

Burgebrach, 11.07.2018

Sebastian Laske

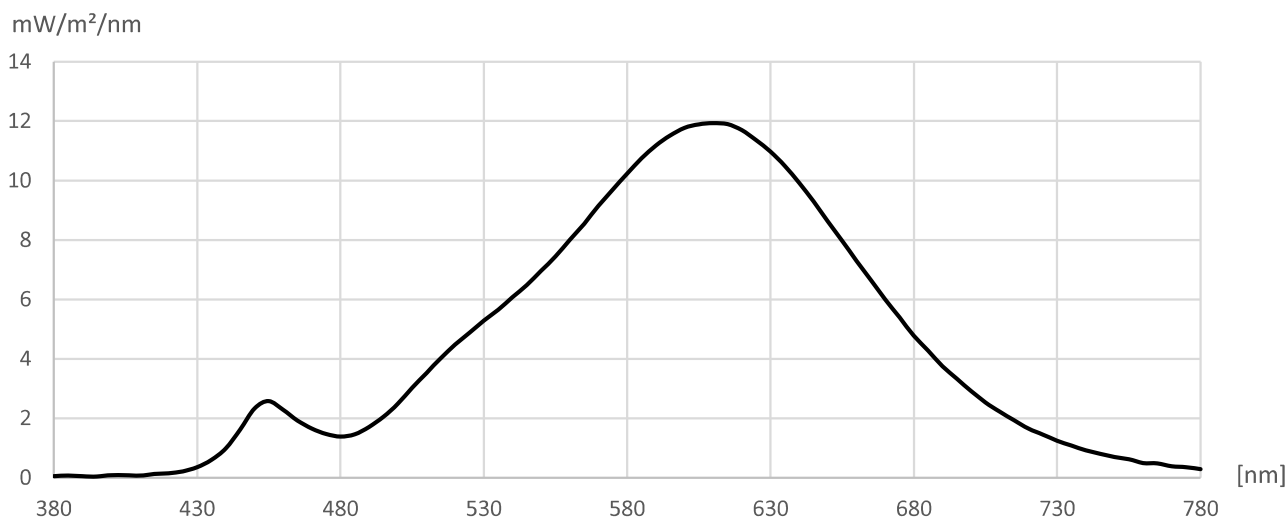
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 1 m / WW

Measurement file: 402319_1m_ww.CSV
Date of measurement: 11.07.2018
Time of measurement: 09:34:38



R1 = 77,2	Ra = 80,2	Illuminance	563,31 lx	CIE1931
R2 = 86,9	Re = 73,3	Ee	1,761 W/m ²	x = 0,4811
R3 = 97,0	GAI = 30,0	LER	319,9 lm/W	y = 0,4323
R4 = 77,2				
R5 = 75,6		correlated color temperature (CCT)	2585 K	CIE1976
R6 = 82,8		Duv	0,0062	u' = 0,2663
R7 = 85,6				v' = 0,5385
R8 = 59,4		Saturation	74,2 %	
R9 = 8,5				CIE1960
R10 = 70,0		Dominant wavelength	582 nm	u = 0,2663
R11 = 73,6		Peak wavelength	607 nm	v = 0,3590
R12 = 59,2				
R13 = 78,6		Flicker frequency	% < 2.5 Hz	TM30
R14 = 97,7		Percent Flicker	< 2.5 %	Rf = 82,4
R15 = 70,2		Flicker index	% < 2.5	Rg = 91,2

[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	0,05	440	0,98	500	2,49	560	8,01	620	11,69	680	4,79	740	0,92
385	0,08	445	1,62	505	3,03	565	8,55	625	11,36	685	4,27	745	0,81
390	0,05	450	2,33	510	3,53	570	9,14	630	10,97	690	3,75	750	0,70
395	0,04	455	2,58	515	4,01	575	9,70	635	10,49	695	3,33	755	0,62
400	0,09	460	2,29	520	4,48	580	10,23	640	9,92	700	2,91	760	0,50
405	0,08	465	1,93	525	4,88	585	10,75	645	9,30	705	2,54	765	0,48
410	0,07	470	1,66	530	5,28	590	11,18	650	8,63	710	2,22	770	0,39
415	0,12	475	1,47	535	5,65	595	11,52	655	7,98	715	1,94	775	0,36
420	0,15	480	1,38	540	6,08	600	11,77	660	7,30	720	1,65	780	0,29
425	0,22	485	1,46	545	6,48	605	11,89	665	6,65	725	1,45		
430	0,36	490	1,71	550	6,96	610	11,93	670	6,00	730	1,25		
435	0,60	495	2,05	555	7,44	615	11,89	675	5,39	735	1,08		

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

Sebastian Laske

Burgebrach, 11.07.2018

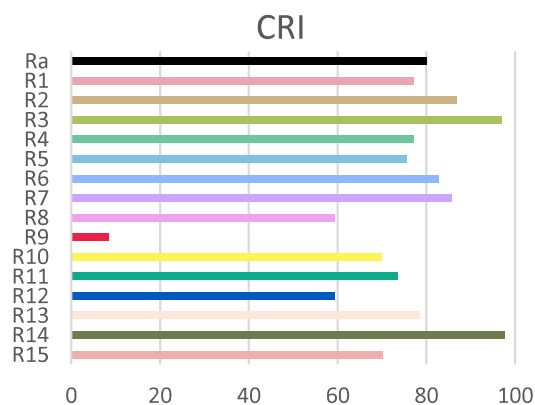
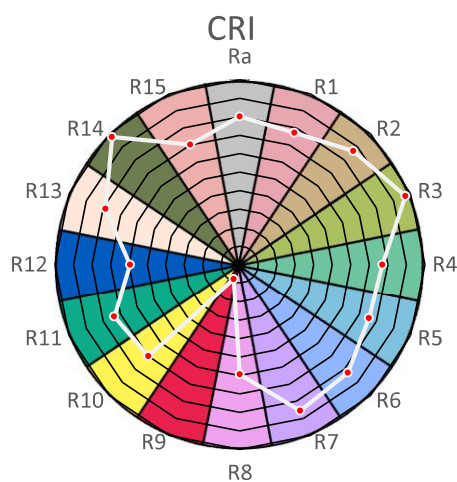
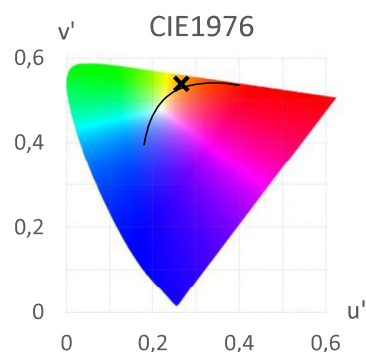
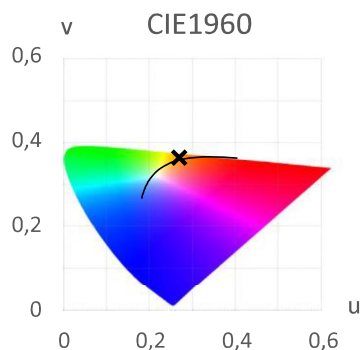
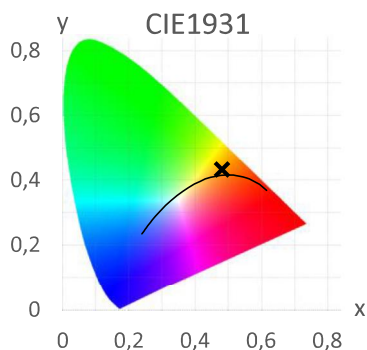
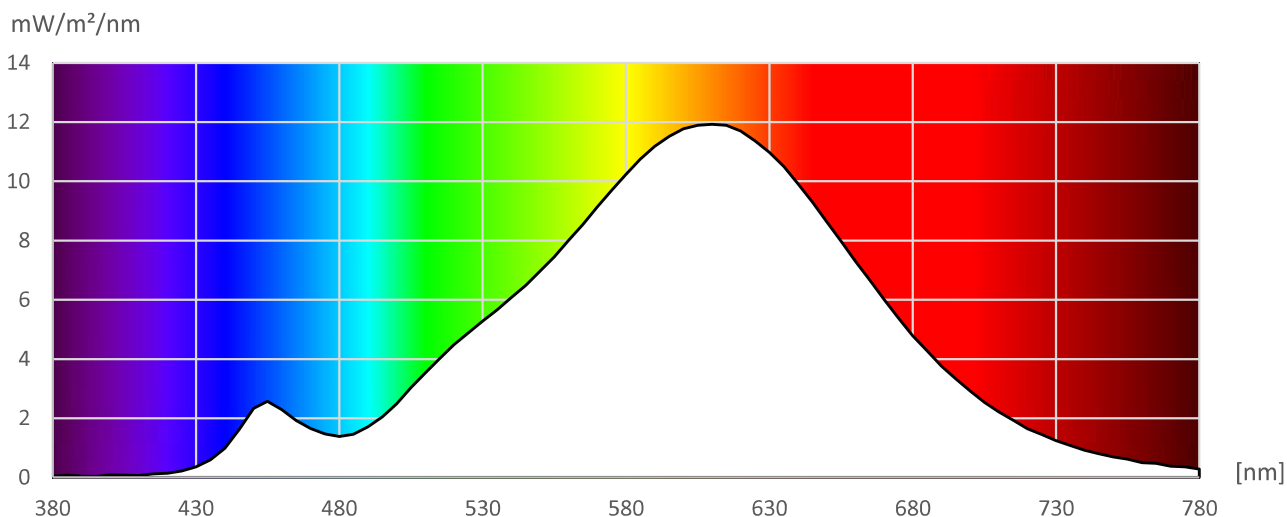
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 1 m / WW

Measurement file: 402319_1m_ww.C
Date of measurement: 11.07.2018
Time of measurement: 09:34:38



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

Burgebrach, 11.07.2018

Sebastian Laske

First, last name of inspector

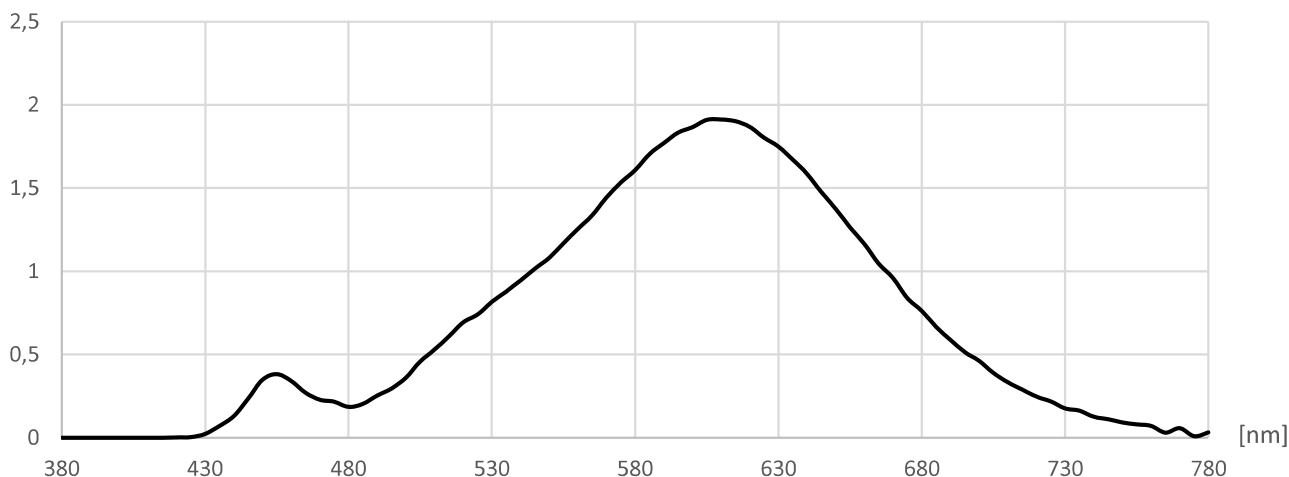
Measurement protocol

th.mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 3 m / WW

Measurement file: 402319_3m_ww.CSV
Date of measurement: 11.07.2018
Time of measurement: 09:35:04

mW/m²/nm



R1 = 76,4	Ra = 79,5	Illuminance	88,49 lx	CIE1931
R2 = 86,4	Re = 72,3	Ee	0,274 W/m ²	x = 0,4869
R3 = 96,8	GAI = 27,2	LER	323,2 lm/W	y = 0,4347
R4 = 76,3				
R5 = 74,5		correlated color temperature (CCT)	2534 K	CIE1976
R6 = 82,0		Duv	0,0066	u' = 0,2689
R7 = 85,3				v' = 0,5402
R8 = 58,2		Saturation	76,7 %	
R9 = 6,0				CIE1960
R10 = 68,8		Dominant wavelength	582 nm	u = 0,2689
R11 = 72,4		Peak wavelength	605 nm	v = 0,3601
R12 = 56,5				
R13 = 77,8		Flicker frequency	% < 2.5 Hz	TM30
R14 = 97,6		Percent Flicker	< 2.5 %	Rf = 81,4
R15 = 69,2		Flicker index	% < 2.5	Rg = 90,1

[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	0,13	500	0,36	560	1,25	620	1,87	680	0,76	740	0,13
385	0,00	445	0,23	505	0,46	565	1,34	625	1,80	685	0,67	745	0,11
390	0,00	450	0,35	510	0,53	570	1,44	630	1,75	690	0,59	750	0,09
395	0,00	455	0,38	515	0,61	575	1,53	635	1,67	695	0,51	755	0,08
400	0,00	460	0,34	520	0,69	580	1,61	640	1,58	700	0,46	760	0,07
405	0,00	465	0,27	525	0,74	585	1,70	645	1,48	705	0,39	765	0,03
410	0,00	470	0,23	530	0,82	590	1,77	650	1,37	710	0,33	770	0,06
415	0,00	475	0,22	535	0,88	595	1,83	655	1,26	715	0,29	775	0,01
420	0,00	480	0,19	540	0,95	600	1,87	660	1,16	720	0,25	780	0,03
425	0,00	485	0,20	545	1,01	605	1,91	665	1,04	725	0,22		
430	0,02	490	0,25	550	1,08	610	1,91	670	0,96	730	0,18		
435	0,07	495	0,30	555	1,17	615	1,90	675	0,84	735	0,16		

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

Sebastian Laske

Burgebrach, 11.07.2018

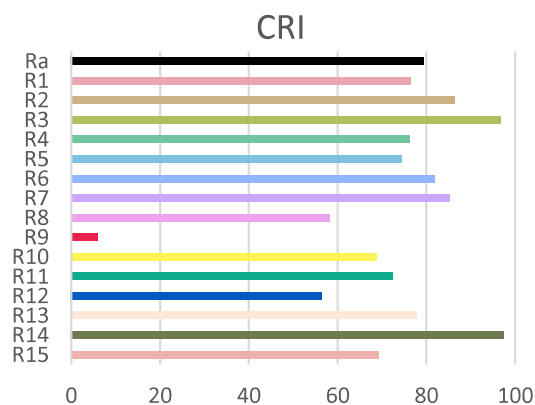
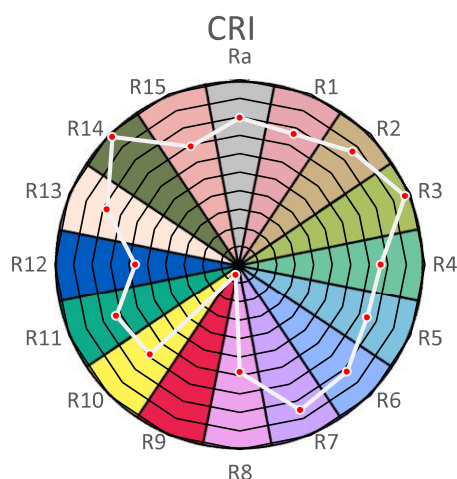
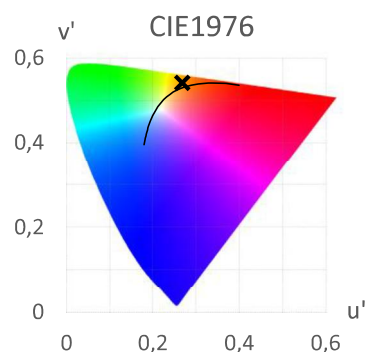
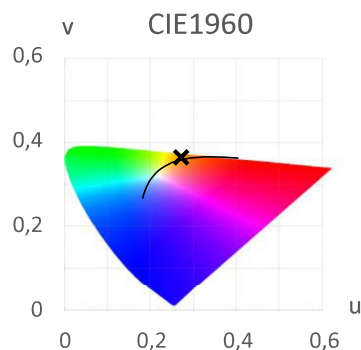
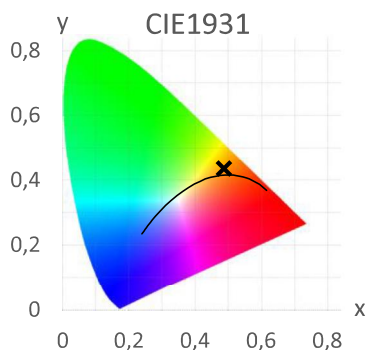
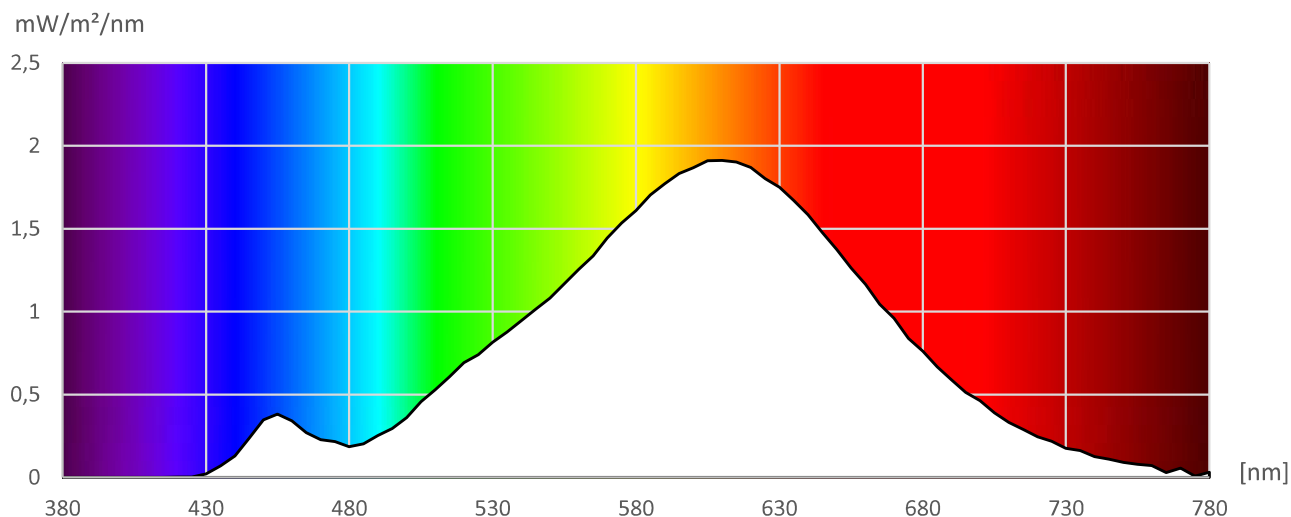
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 3 m / WW

Measurement file: 402319_3m_ww.C
Date of measurement: 11.07.2018
Time of measurement: 09:35:04



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

Burgebrach, 11.07.2018

Sebastian Laske

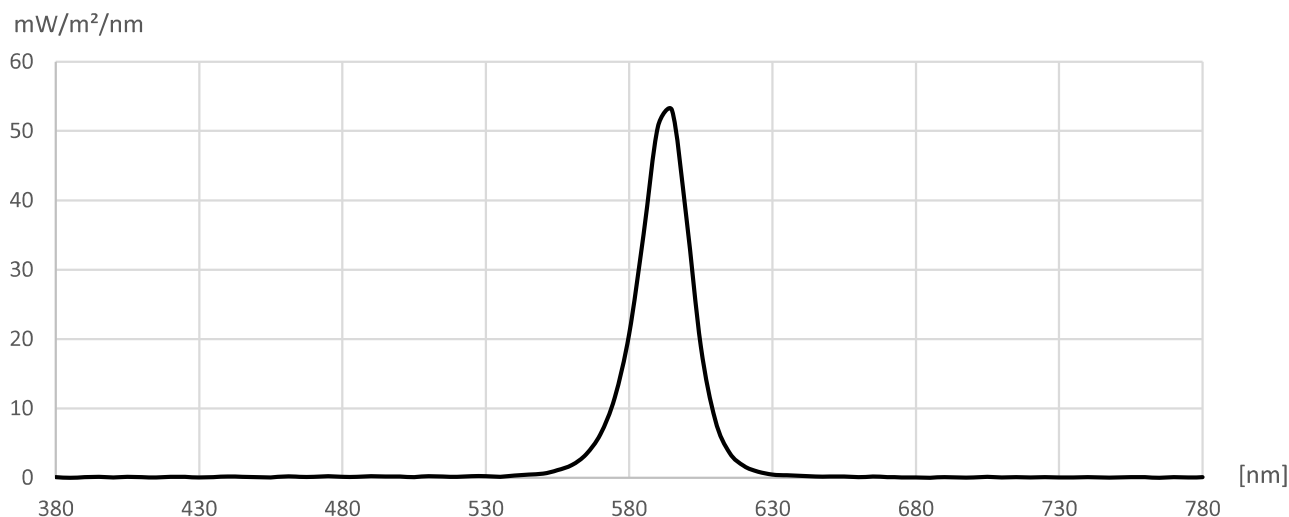
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 1 m / amber

Measurement file: 402319_1m_a.CSV
Date of measurement: 11.07.2018
Time of measurement: 09:35:21



R1 = -36,0	Ra = -20,8
R2 = 50,2	Re = -45,3
R3 = 22,3	GAI = 0,6
R4 = -66,2	
R5 = -39,6	
R6 = 36,6	
R7 = -3,0	
R8 = #####	
R9 = #####	
R10 = 25,0	
R11 = -96,2	
R12 = -12,8	
R13 = -18,3	
R14 = 48,4	
R15 = -65,4	

Illuminance	645,71 lx
Ee	1,316 W/m²
LER	490,8 lm/W
correlated color temperature (CCT)	1730 K
Duv	0,0076
Saturation	97,6 %
Dominant wavelength	590 nm
Peak wavelength	594 nm
Flicker frequency	% < 2.5 Hz
Percent Flicker	< 2.5 %
Flicker index	% < 2.5

CIE1931
x = 0,5712
y = 0,4220
CIE1976
u' = 0,3301
v' = 0,5487
CIE1960
u = 0,3301
v = 0,3658
TM30
Rf = 6,1
Rg = 17,2

[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	0,08	440	0,18	500	0,16	560	1,84	620	1,70	680	0,03	740	0,09
385	0,00	445	0,14	505	0,11	565	3,38	625	0,87	685	0,01	745	0,02
390	0,07	450	0,09	510	0,22	570	6,27	630	0,45	690	0,10	750	0,04
395	0,13	455	0,06	515	0,16	575	11,58	635	0,35	695	0,03	755	0,10
400	0,05	460	0,19	520	0,13	580	20,74	640	0,29	700	0,03	760	0,07
405	0,14	465	0,15	525	0,23	585	35,04	645	0,16	705	0,12	765	0,00
410	0,07	470	0,11	530	0,22	590	50,64	650	0,17	710	0,05	770	0,09
415	0,05	475	0,22	535	0,15	595	52,96	655	0,17	715	0,08	775	0,03
420	0,13	480	0,13	540	0,32	600	37,49	660	0,10	720	0,03	780	0,06
425	0,11	485	0,12	545	0,43	605	18,99	665	0,15	725	0,08		
430	0,05	490	0,22	550	0,60	610	8,36	670	0,11	730	0,03		
435	0,10	495	0,19	555	1,08	615	3,58	675	0,05	735	0,03		

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

Sebastian Laske

Burgebrach, 11.07.2018

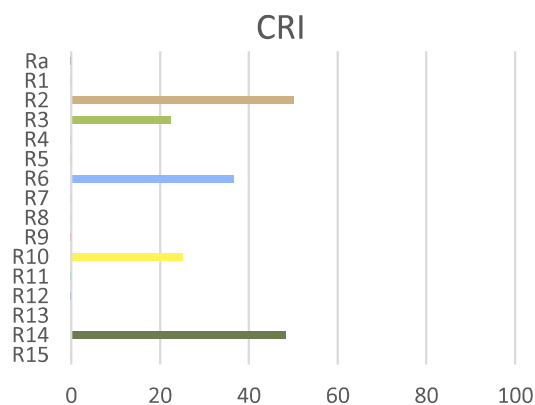
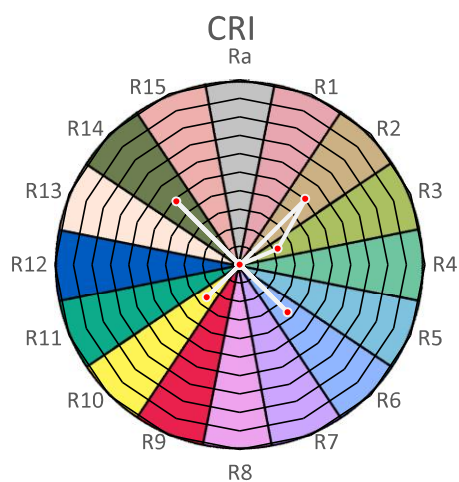
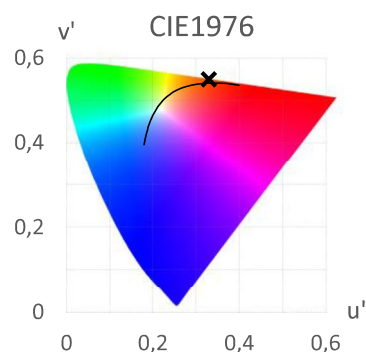
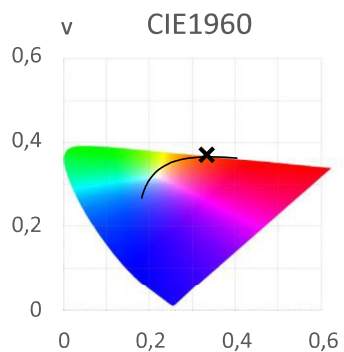
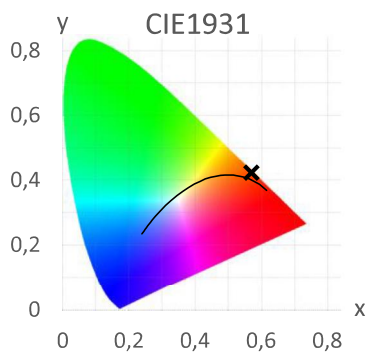
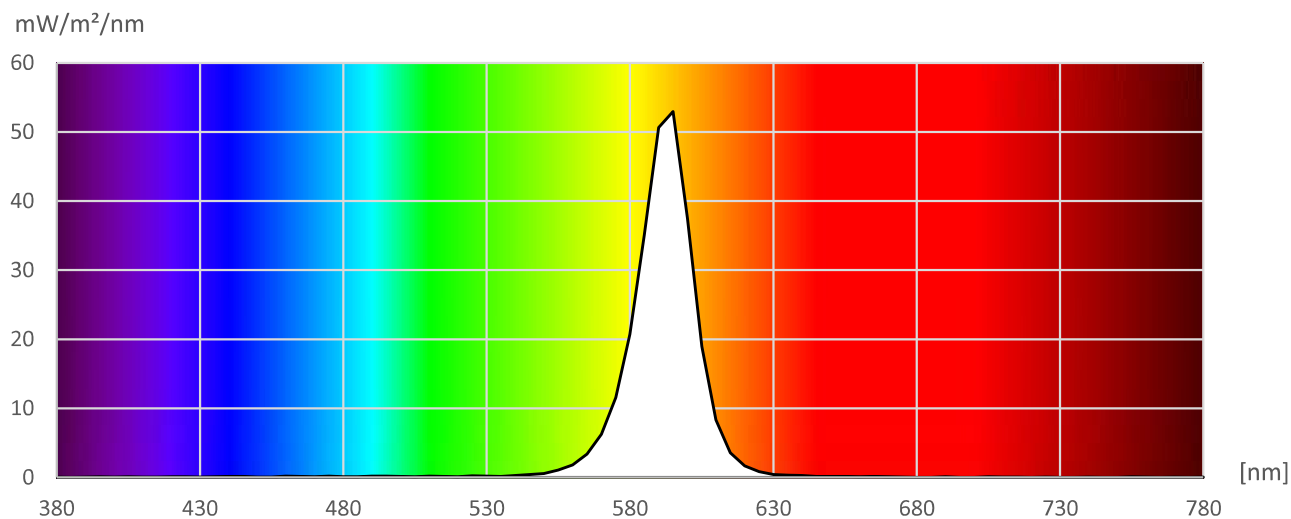
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 1 m / amber

Measurement file: 402319_1m_a.CSV
Date of measurement: 11.07.2018
Time of measurement: 09:35:21



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

Burgebrach, 11.07.2018

Sebastian Laske

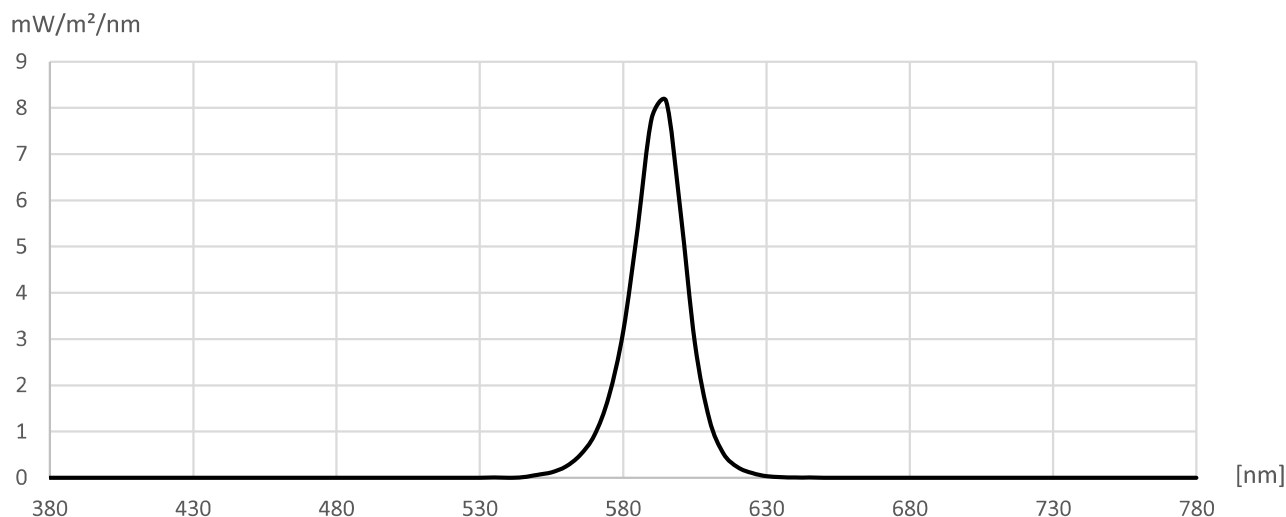
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 3 m / amber

Measurement file: 402319_3m_a.CSV
Date of measurement: 11.07.2018
Time of measurement: 09:35:42



R1 = -41,2	Ra = -25,3
R2 = 46,0	Re = -51,6
R3 = 19,9	GAI = 0,0
R4 = -72,4	
R5 = -45,9	
R6 = 28,6	
R7 = -3,5	
R8 = #####	
R9 = #####	
R10 = 17,0	
R11 = #####	
R12 = -31,6	
R13 = -24,0	
R14 = 46,8	
R15 = -70,0	

Illuminance	97,35 lx
Ee	0,195 W/m ²
LER	499,7 lm/W
correlated color temperature (CCT)	1700 K
Duv	0,0087
Saturation	99,7 %
Dominant wavelength	590 nm
Peak wavelength	594 nm
Flicker frequency	% < 2.5 Hz
Percent Flicker	< 2.5 %
Flicker index	% < 2.5

CIE1931
x = 0,5767
y = 0,4226
CIE1976
u' = 0,3334
v' = 0,5498
CIE1960
u = 0,3334
v = 0,3665
TM30
Rf = 0,2
Rg = 0,0

[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	0,24	620	0,23	680	0,00	740	0,00
385	0,00	445	0,00	505	0,00	565	0,49	625	0,10	685	0,00	745	0,00
390	0,00	450	0,00	510	0,00	570	0,92	630	0,03	690	0,00	750	0,00
395	0,00	455	0,00	515	0,00	575	1,76	635	0,01	695	0,00	755	0,00
400	0,00	460	0,00	520	0,00	580	3,17	640	0,00	700	0,00	760	0,00
405	0,00	465	0,00	525	0,00	585	5,40	645	0,01	705	0,00	765	0,00
410	0,00	470	0,00	530	0,00	590	7,78	650	0,00	710	0,00	770	0,00
415	0,00	475	0,00	535	0,00	595	8,15	655	0,00	715	0,00	775	0,00
420	0,00	480	0,00	540	0,00	600	5,76	660	0,00	720	0,00	780	0,00
425	0,00	485	0,00	545	0,01	605	2,91	665	0,00	725	0,00		
430	0,00	490	0,00	550	0,06	610	1,27	670	0,00	730	0,00		
435	0,00	495	0,00	555	0,12	615	0,53	675	0,00	735	0,00		

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

Sebastian Laske

Burgebrach, 11.07.2018

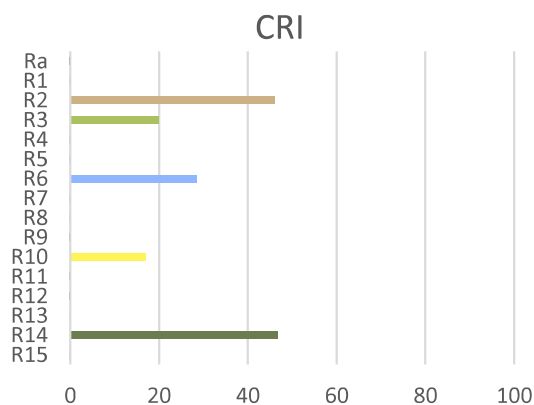
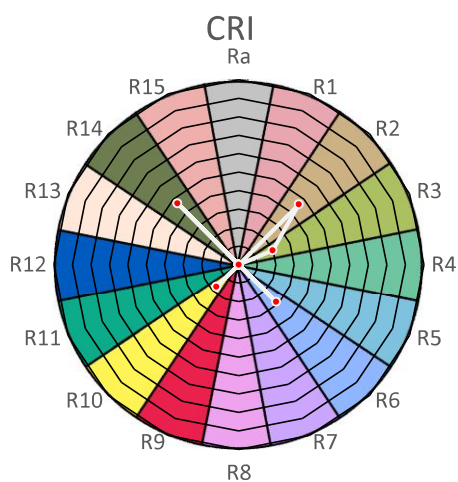
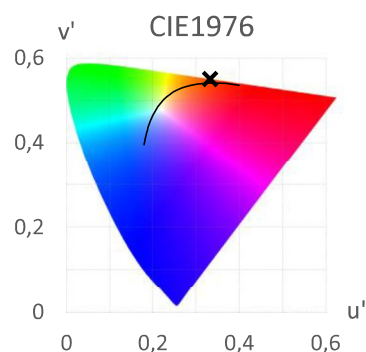
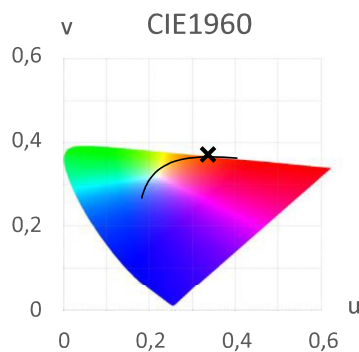
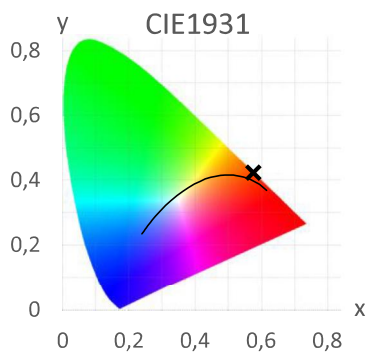
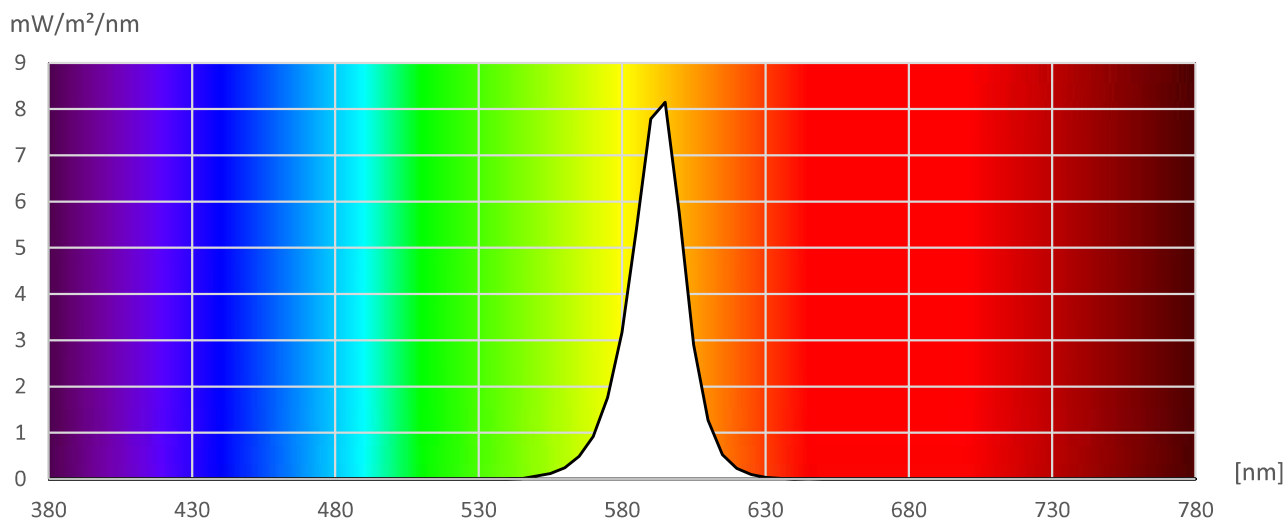
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Mini Stage Par CW / WW / A
Item 402319 / @ 3 m / amber

Measurement file: 402319_3m_a.CSV
Date of measurement: 11.07.2018
Time of measurement: 09:35:42



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

Burgebrach, 11.07.2018

Sebastian Laske

First, last name of inspector