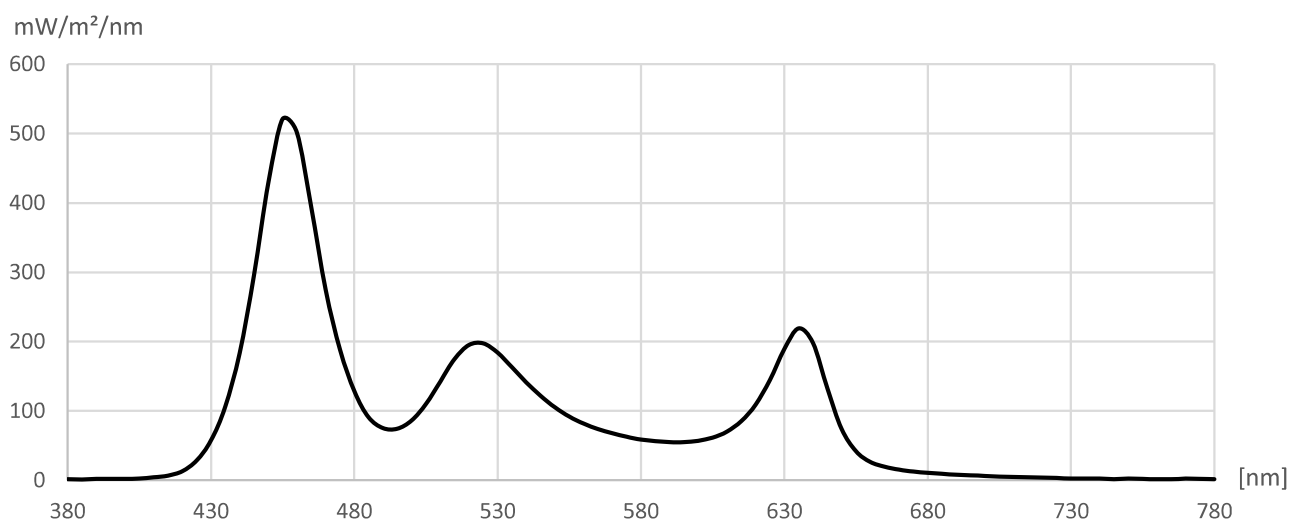


Measurement protocol

th.mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 1 m / all

Measurement file: 345855_1m_all.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:30:27



R1 = -	Ra = 65,7	Illuminance	8167,06 lx	CIE1931
R2 = -	Re = 60,3	Ee	35,727 W/m²	x = 0,2482
R3 = -	GAI = 132,0	LER	228,6 lm/W	y = 0,2377
R4 = -				
R5 = -		correlated color temperature (CCT)	> 50000 K	CIE1976
R6 = -		Duv	-	u' = 0,1854
R7 = -				v' = 0,3994
R8 = -		Saturation	38,9 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	471 nm	u = 0,1854
R11 = -		Peak wavelength	456 nm	v = 0,2663
R12 = -				
R13 = -		Flicker frequency	% < 2.5 Hz	TM30
R14 = -		Percent Flicker	< 2.5 %	Rf = -
R15 = -		Flicker index	% < 2.5	Rg = -

[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	1,69	440	183,15	500	86,46	560	81,51	620	109,19	680	10,67	740	2,45
385	1,01	445	295,78	505	110,11	565	73,79	625	144,25	685	9,16	745	1,65
390	1,98	450	429,59	510	142,58	570	67,71	630	188,84	690	7,78	750	2,32
395	2,07	455	520,73	515	174,70	575	62,64	635	218,99	695	7,21	755	1,88
400	2,05	460	501,45	520	194,99	580	58,76	640	197,89	700	6,13	760	1,58
405	2,46	465	393,46	525	197,15	585	56,51	645	132,18	705	5,25	765	1,59
410	4,16	470	274,59	530	183,86	590	54,97	650	74,20	710	4,75	770	2,23
415	6,81	475	188,14	535	162,75	595	55,03	655	41,86	715	4,17	775	2,00
420	12,90	480	128,05	540	141,19	600	56,89	660	26,30	720	3,94	780	1,52
425	28,60	485	91,10	545	122,00	605	61,60	665	19,35	725	3,28		
430	57,04	490	75,42	550	104,97	610	70,20	670	15,27	730	2,43		
435	106,09	495	74,44	555	91,83	615	85,45	675	12,40	735	2,27		

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Burgebrach, 06.02.2019

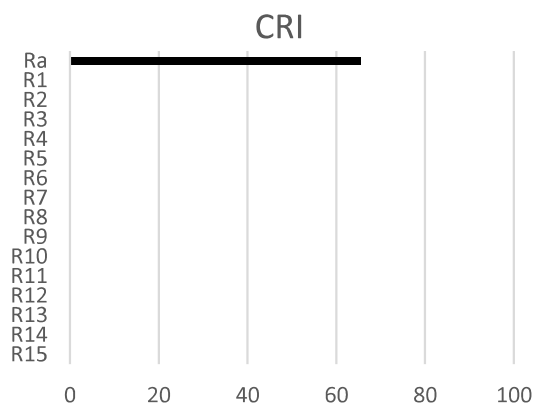
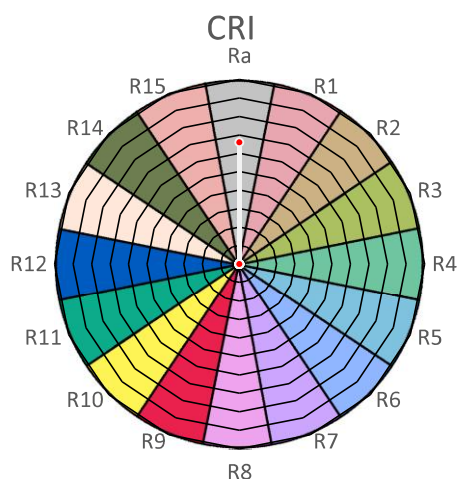
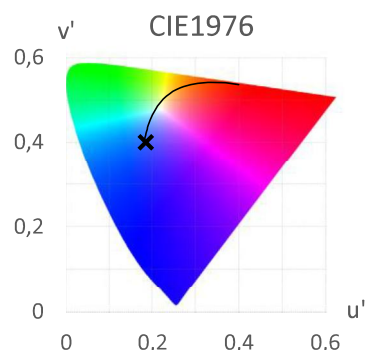
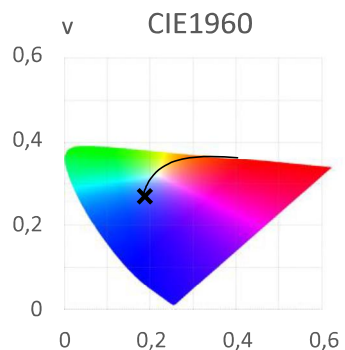
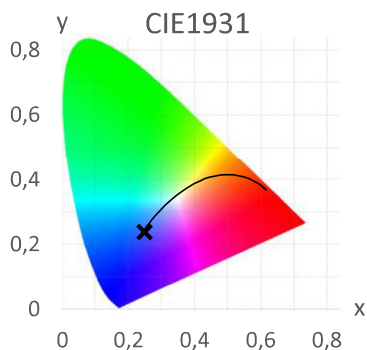
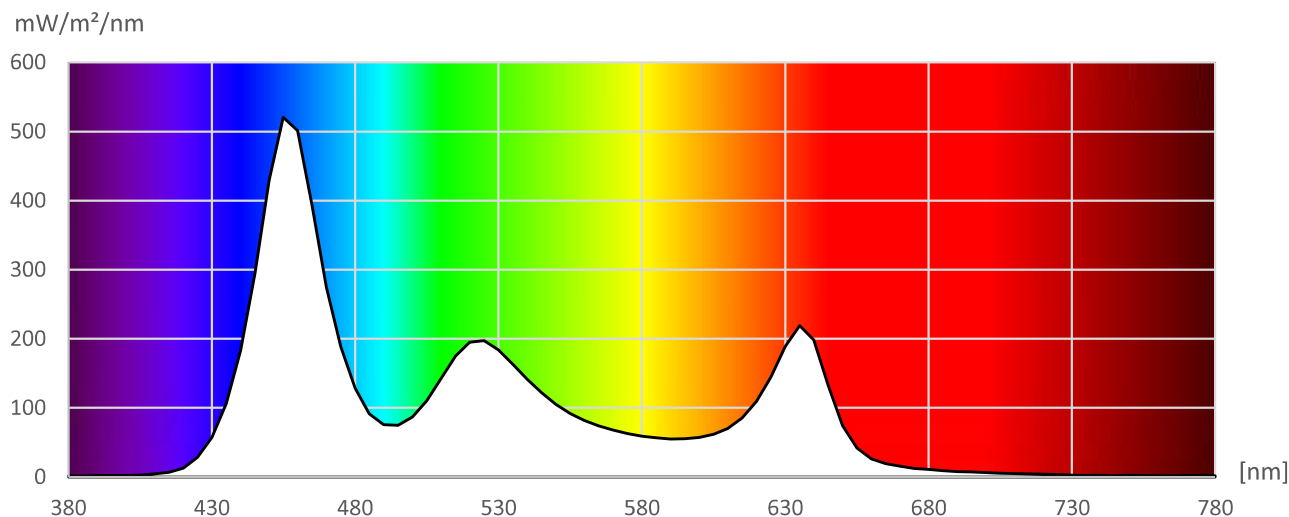
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 1 m / all

Measurement file: 345855_1m_all.CS
Date of measurement: 01.02.2019
Time of measurement: 20:30:27



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Burgebrach, 06.02.2019

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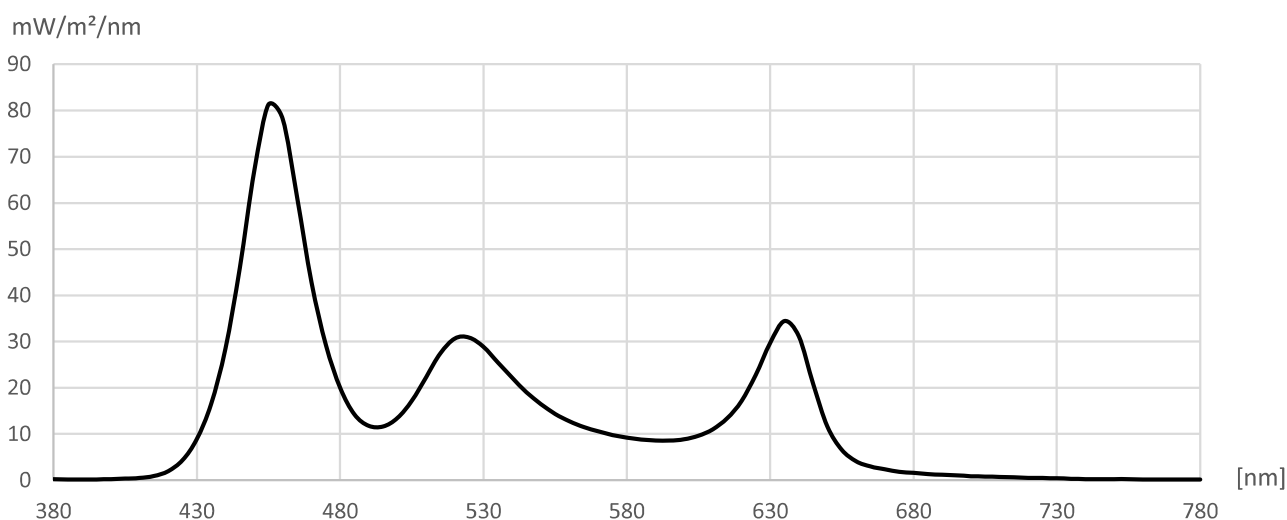
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 3 m / all

Measurement file: 345855_3m_all.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:31:35



R1 = -	Ra = 66,0	Illuminance	1279,21 lx	CIE1931
R2 = -	Re = 60,5	Ee	5,573 W/m ²	x = 0,2487
R3 = -	GAI = 132,1	LER	229,5 lm/W	y = 0,2385
R4 = -				
R5 = -		correlated color temperature (CCT)	> 50000 K	CIE1976
R6 = -		Duv	-	u' = 0,1854
R7 = -				v' = 0,4001
R8 = -		Saturation	38,7 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	471 nm	u = 0,1854
R11 = -		Peak wavelength	456 nm	v = 0,2668
R12 = -				
R13 = -		Flicker frequency	% < 2.5 Hz	TM30
R14 = -		Percent Flicker	< 2.5 %	Rf = -
R15 = -		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	0,23	440	28,51	500	13,49	560	12,72	620	17,15	680	1,59	740	0,25
385	0,18	445	46,01	505	17,21	565	11,51	625	22,78	685	1,36	745	0,22
390	0,19	450	66,92	510	22,34	570	10,60	630	29,71	690	1,18	750	0,25
395	0,19	455	81,21	515	27,44	575	9,80	635	34,43	695	1,08	755	0,26
400	0,25	460	78,15	520	30,67	580	9,24	640	31,12	700	0,89	760	0,18
405	0,34	465	61,22	525	30,87	585	8,83	645	20,78	705	0,80	765	0,15
410	0,49	470	42,77	530	28,84	590	8,61	650	11,63	710	0,72	770	0,19
415	0,91	475	29,28	535	25,48	595	8,57	655	6,59	715	0,61	775	0,17
420	1,98	480	19,91	540	22,17	600	8,86	660	4,10	720	0,53	780	0,13
425	4,36	485	14,26	545	19,05	605	9,62	665	2,97	725	0,48		
430	8,87	490	11,77	550	16,50	610	11,04	670	2,38	730	0,44		
435	16,47	495	11,62	555	14,36	615	13,41	675	1,84	735	0,31		

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Burgebrach, 06.02.2019

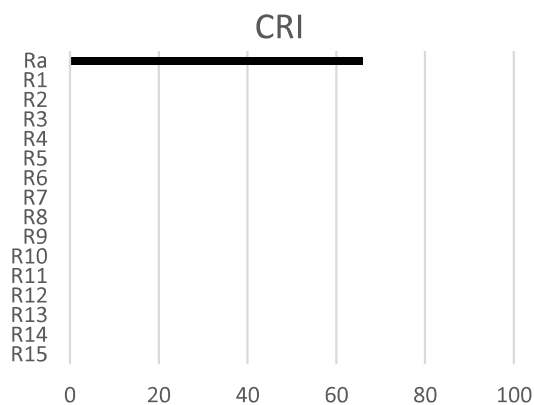
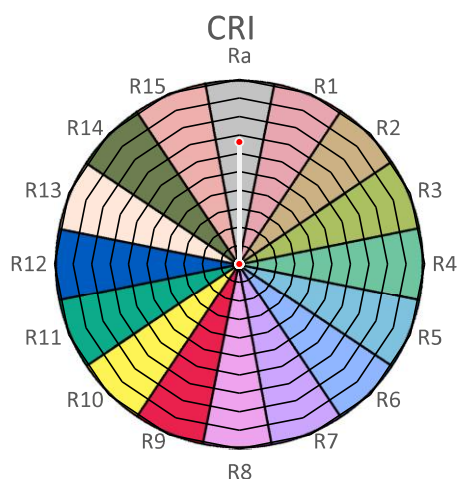
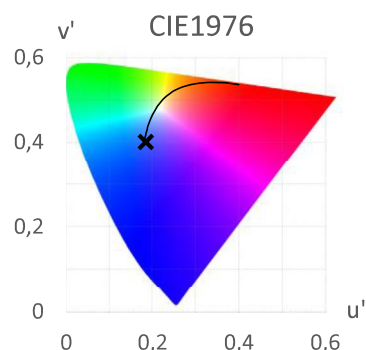
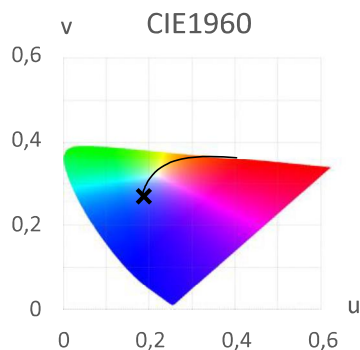
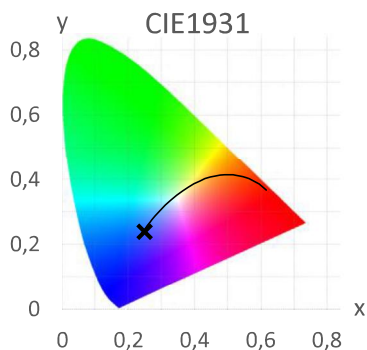
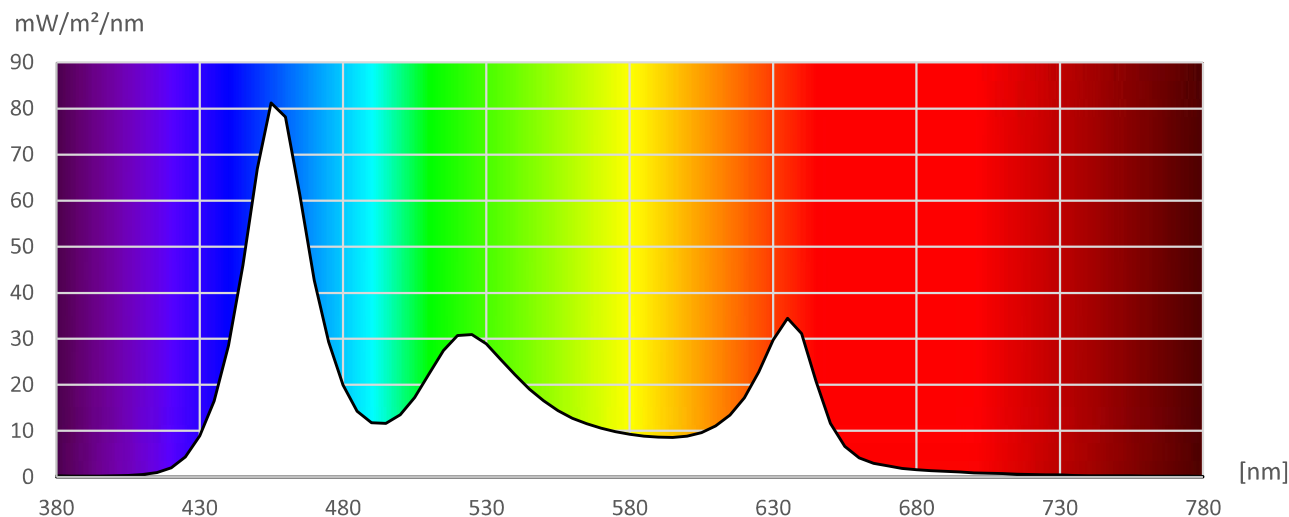
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 3 m / all

Measurement file: 345855_3m_all.CS
Date of measurement: 01.02.2019
Time of measurement: 20:31:35



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Burgebrach, 06.02.2019

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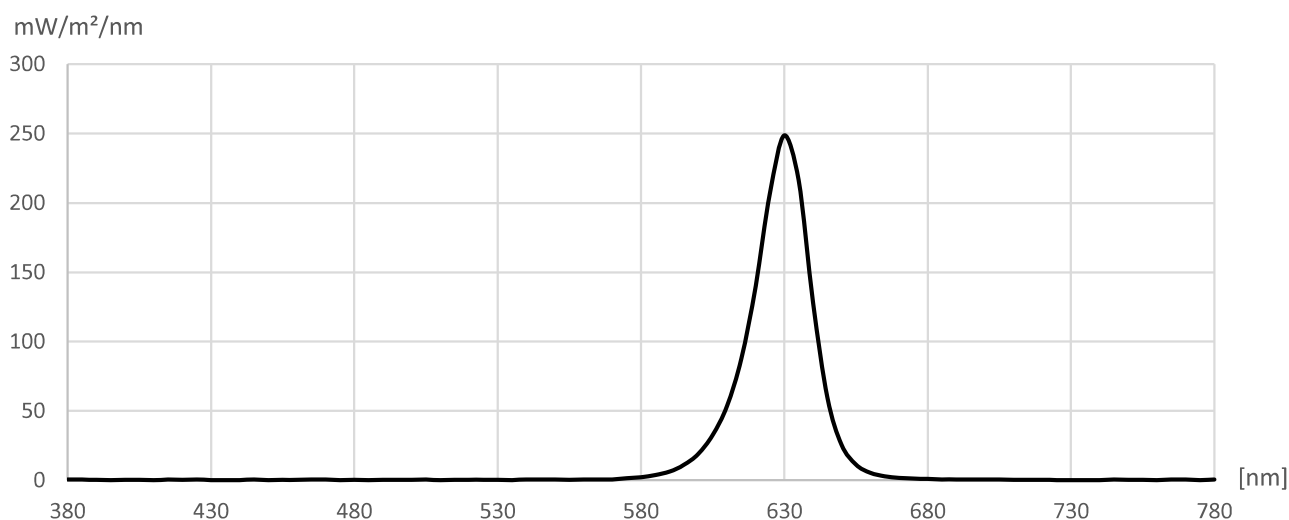
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 1 m / red

Measurement file: 345855_1m_red.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:31:59



R1 = -	Ra = -	Illuminance	1328,17 lx	CIE1931
R2 = -	Re = -	Ee	6,434 W/m²	x = 0,6860
R3 = -	GAI = -	LER	206,4 lm/W	y = 0,3090
R4 = -				
R5 = -		correlated color temperature (CCT)	< 1600 K	CIE1976
R6 = -		Duv	-	u' = 0,5143
R7 = -				v' = 0,5212
R8 = -		Saturation	98,6 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	624 nm	u = 0,5143
R11 = -		Peak wavelength	630 nm	v = 0,3474
R12 = -				
R13 = -		Flicker frequency	% < 2.5 Hz	TM30
R14 = -		Percent Flicker	< 2.5 %	Rf = -
R15 = -		Flicker index	% < 2.5	Rg = -

[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	0,52	440	0,14	500	0,36	560	0,50	620	140,19	680	0,90	740	0,09
385	0,45	445	0,47	505	0,43	565	0,50	625	206,69	685	0,62	745	0,61
390	0,35	450	0,09	510	0,13	570	0,61	630	248,71	690	0,64	750	0,30
395	0,15	455	0,32	515	0,30	575	1,38	635	216,36	695	0,46	755	0,29
400	0,34	460	0,22	520	0,38	580	2,21	640	128,20	700	0,56	760	0,18
405	0,26	465	0,58	525	0,42	585	3,73	645	59,54	705	0,58	765	0,43
410	0,12	470	0,43	530	0,27	590	6,34	650	25,68	710	0,28	770	0,51
415	0,47	475	0,16	535	0,15	595	11,04	655	11,35	715	0,29	775	0,09
420	0,40	480	0,21	540	0,54	600	18,95	660	5,38	720	0,27	780	0,62
425	0,53	485	0,13	545	0,44	605	32,58	665	2,92	725	0,18		
430	0,19	490	0,21	550	0,51	610	53,61	670	1,68	730	0,16		
435	0,14	495	0,22	555	0,42	615	87,80	675	1,22	735	0,06		

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Burgebrach, 06.02.2019

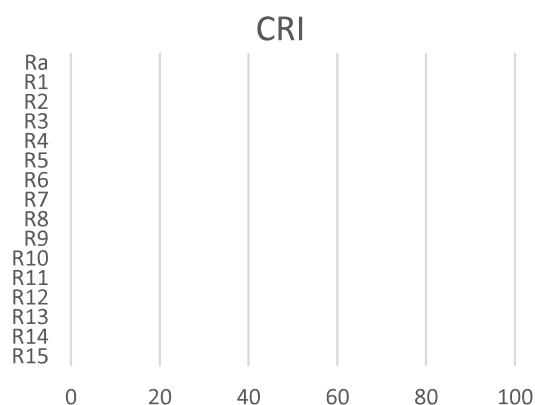
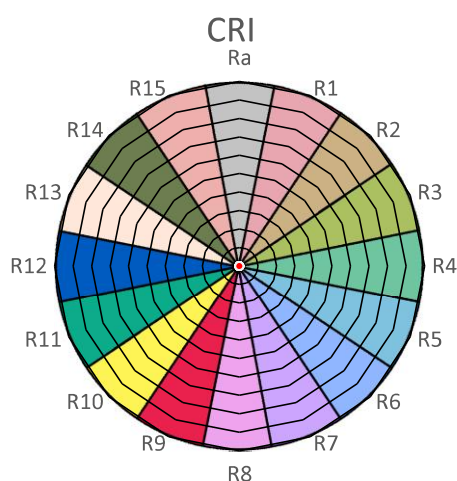
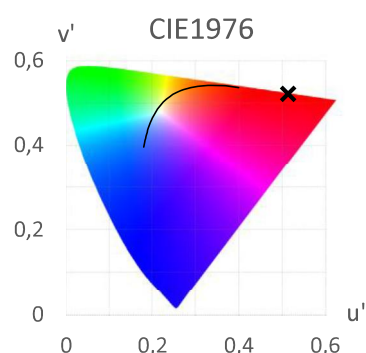
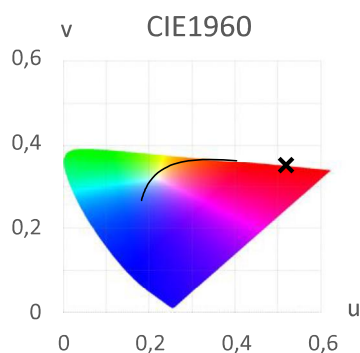
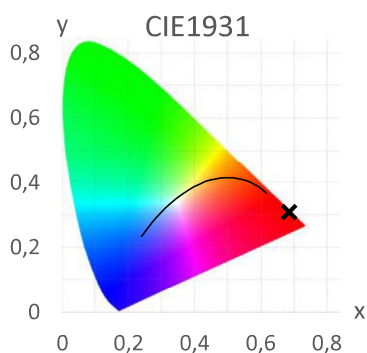
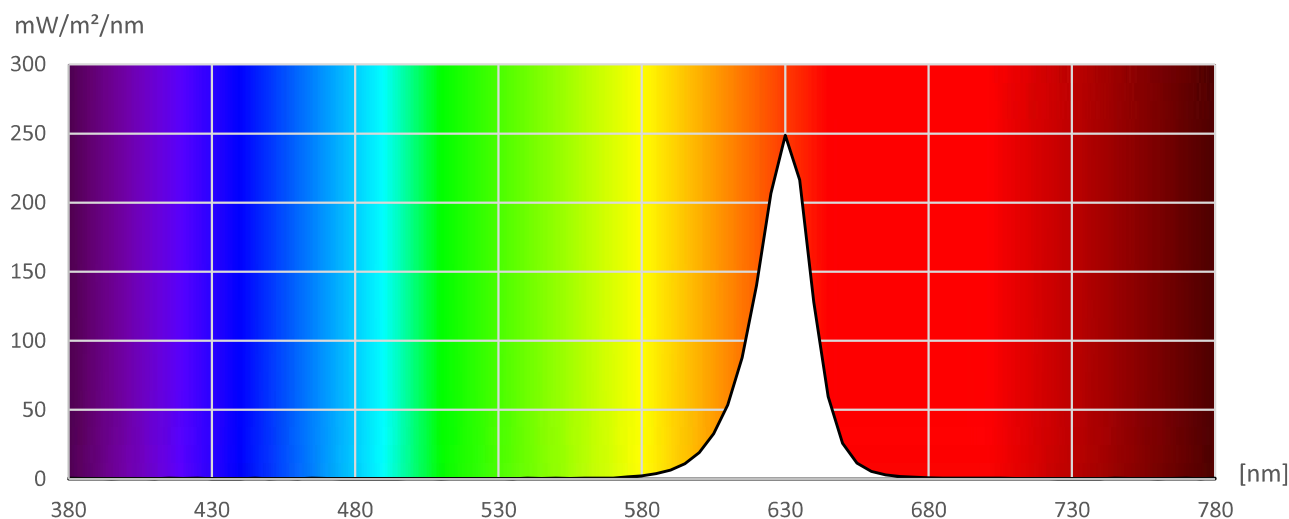
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 1 m / red

Measurement file: 345855_1m_red.C:
Date of measurement: 01.02.2019
Time of measurement: 20:31:59



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Burgebrach, 06.02.2019

Sebastian Laske

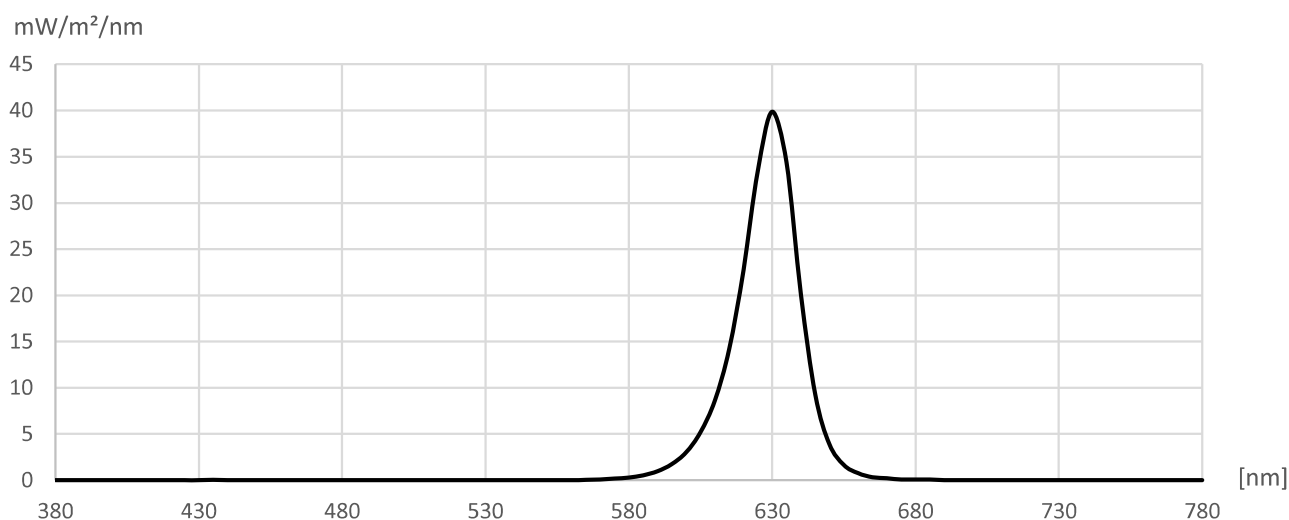
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 3 m / red

Measurement file: 345855_3m_red.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:32:09



R1 = -	Ra = -	Illuminance	210,24 lx	CIE1931
R2 = -	Re = -	Ee	1,011 W/m²	x = 0,6906
R3 = -	GAI = -	LER	208,0 lm/W	y = 0,3084
R4 = -				
R5 = -		correlated color temperature (CCT)	< 1600 K	CIE1976
R6 = -		Duv	-	u' = 0,5193
R7 = -				v' = 0,5218
R8 = -		Saturation	99,9 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	624 nm	u = 0,5193
R11 = -		Peak wavelength	630 nm	v = 0,3479
R12 = -				
R13 = -		Flicker frequency	% < 2.5 Hz	TM30
R14 = -		Percent Flicker	< 2.5 %	Rf = -
R15 = -		Flicker index	% < 2.5	Rg = -

[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	0,00	440	0,01	500	0,01	560	0,02	620	22,78	680	0,08	740	0,00
385	0,00	445	0,00	505	0,00	565	0,03	625	33,41	685	0,06	745	0,01
390	0,00	450	0,00	510	0,02	570	0,09	630	39,85	690	0,02	750	0,00
395	0,00	455	0,00	515	0,01	575	0,19	635	34,40	695	0,01	755	0,00
400	0,00	460	0,01	520	0,00	580	0,29	640	20,14	700	0,02	760	0,00
405	0,01	465	0,02	525	0,01	585	0,54	645	9,25	705	0,00	765	0,00
410	0,00	470	0,00	530	0,01	590	0,98	650	3,91	710	0,00	770	0,00
415	0,00	475	0,00	535	0,01	595	1,73	655	1,66	715	0,00	775	0,02
420	0,00	480	0,01	540	0,02	600	3,00	660	0,76	720	0,01	780	0,00
425	0,00	485	0,00	545	0,01	605	5,19	665	0,34	725	0,00		
430	0,00	490	0,00	550	0,01	610	8,63	670	0,20	730	0,00		
435	0,04	495	0,02	555	0,00	615	14,21	675	0,09	735	0,00		

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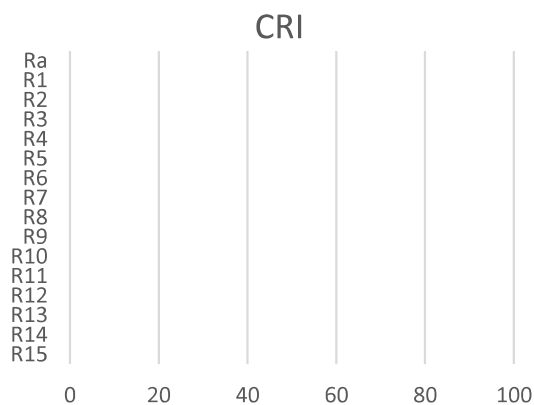
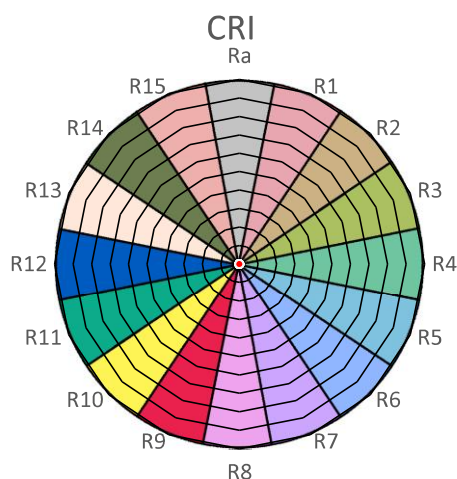
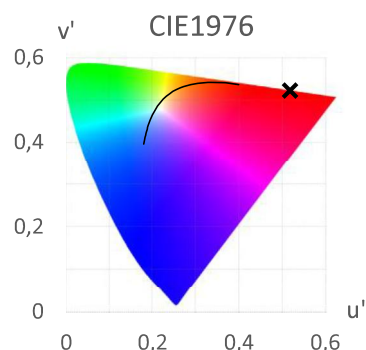
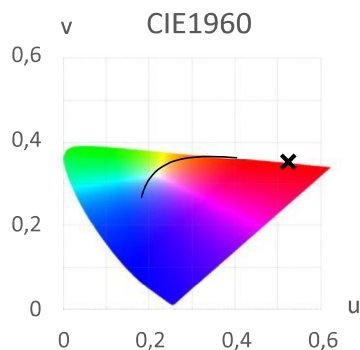
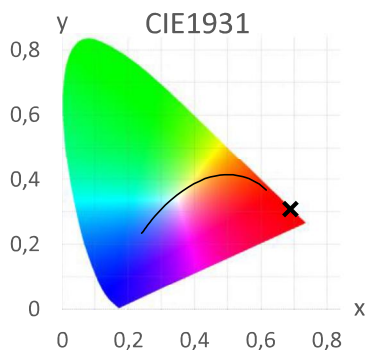
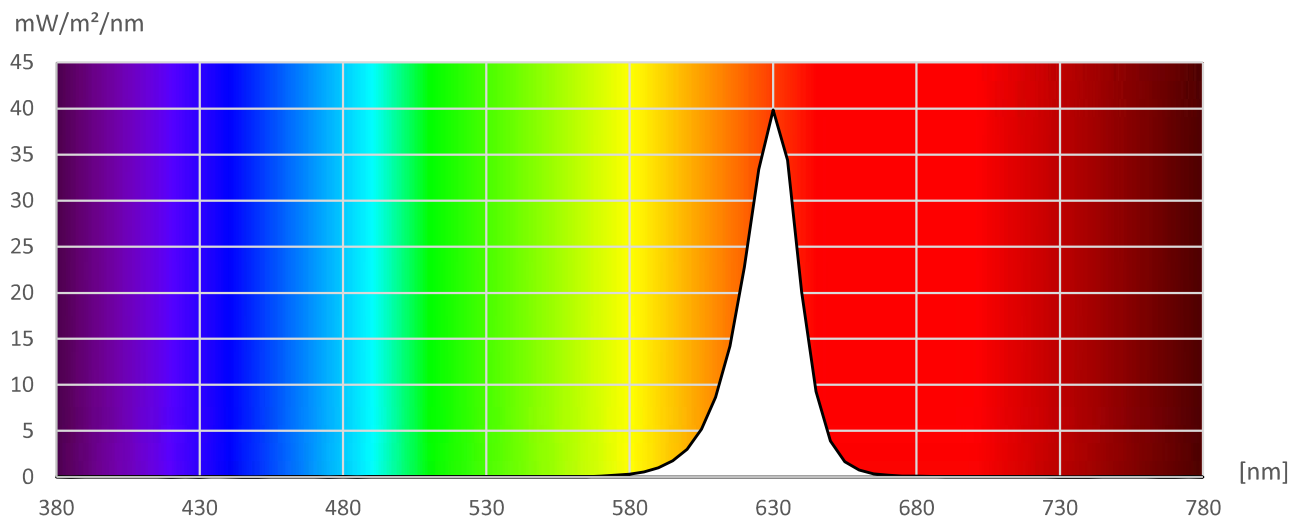
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 3 m / red

Measurement file: 345855_3m_red.C:
Date of measurement: 01.02.2019
Time of measurement: 20:32:09



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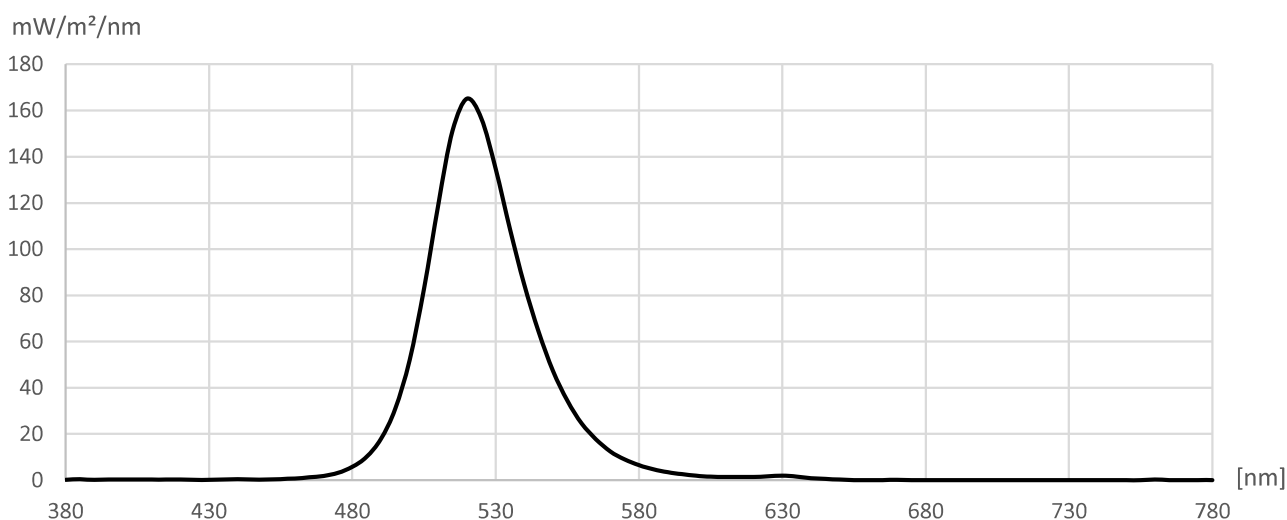
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 1 m / green

Measurement file: 345855_1m_gr.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:32:20



R1 = -32,6	Ra = -20,3
R2 = -4,8	Re = -50,1
R3 = -15,0	GAI = 0,9
R4 = -59,8	
R5 = -7,7	
R6 = -11,5	
R7 = -1,8	
R8 = -28,9	
R9 = #####	
R10 = -97,3	
R11 = -88,7	
R12 = -26,7	
R13 = -37,6	
R14 = 42,8	
R15 = -36,9	

Illuminance	3362,48 lx
Ee	6,879 W/m ²
LER	488,8 lm/W
correlated color temperature (CCT)	7738 K
Duv	0,1547
Saturation	77,4 %
Dominant wavelength	525 nm
Peak wavelength	519 nm
Flicker frequency	% < 2.5 Hz
Percent Flicker	< 2.5 %
Flicker index	% < 2.5

CIE1931
x = 0,1774
y = 0,7166
CIE1976
u' = 0,0631
v' = 0,5736
CIE1960
u = 0,0631
v = 0,3824
TM30
Rf = 1,3
Rg = 11,0

[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	0,24	440	0,49	500	52,06	560	24,52	620	1,42	680	0,03	740	0,00
385	0,40	445	0,28	505	82,96	565	17,75	625	1,70	685	0,00	745	0,05
390	0,20	450	0,33	510	119,56	570	12,48	630	2,03	690	0,00	750	0,09
395	0,35	455	0,49	515	151,30	575	9,04	635	1,63	695	0,00	755	0,00
400	0,32	460	0,80	520	165,07	580	6,49	640	0,90	700	0,00	760	0,27
405	0,28	465	1,23	525	156,56	585	4,73	645	0,57	705	0,08	765	0,11
410	0,29	470	1,89	530	134,65	590	3,46	650	0,30	710	0,08	770	0,00
415	0,26	475	3,17	535	108,47	595	2,62	655	0,08	715	0,09	775	0,10
420	0,34	480	5,85	540	84,74	600	1,95	660	0,06	720	0,08	780	0,11
425	0,13	485	10,11	545	64,27	605	1,51	665	0,10	725	0,10		
430	0,25	490	17,84	550	47,36	610	1,39	670	0,16	730	0,07		
435	0,29	495	30,96	555	34,40	615	1,37	675	0,02	735	0,04		

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Burgebrach, 06.02.2019

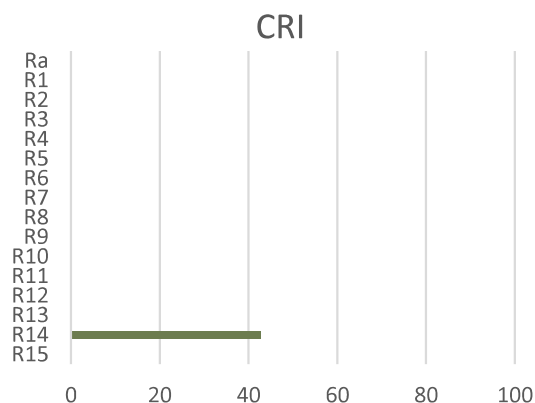
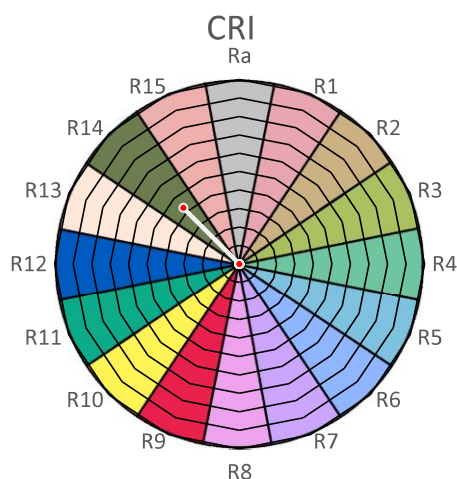
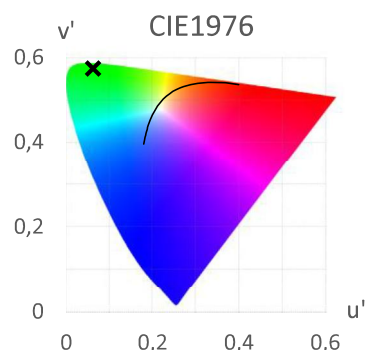
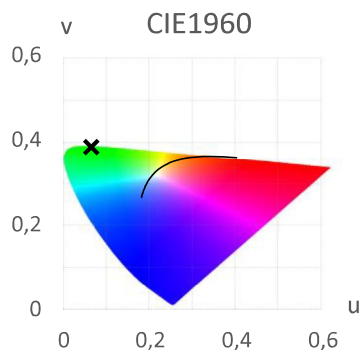
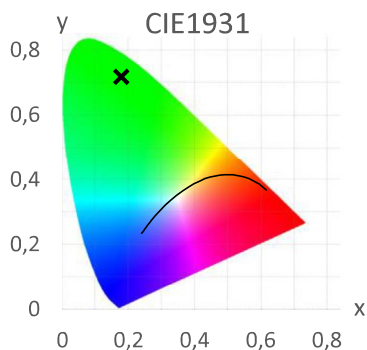
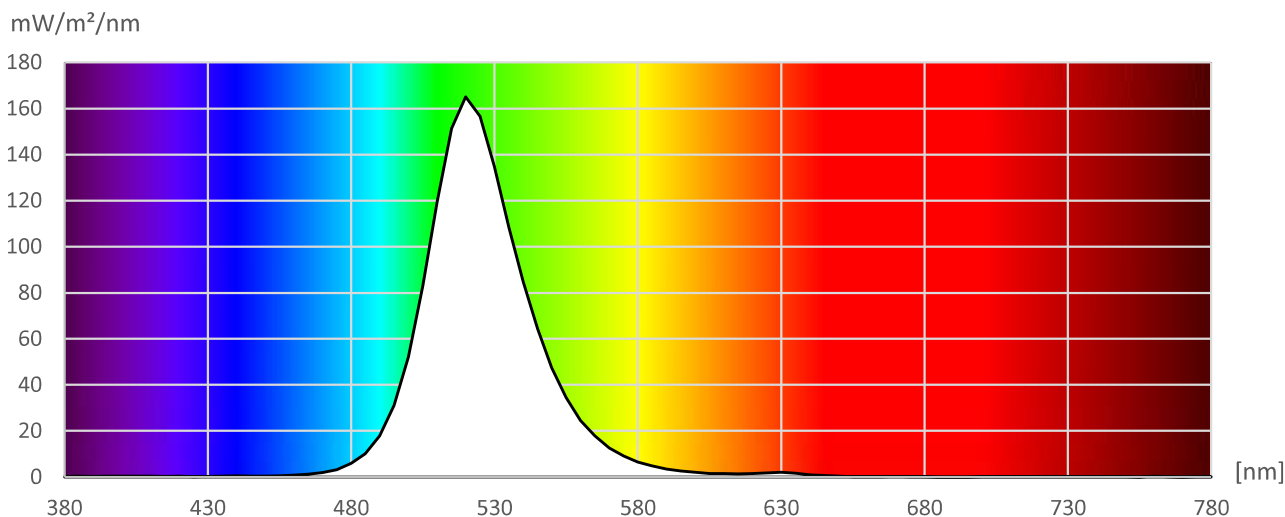
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 1 m / green

Measurement file: 345855_1m_gr.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:32:20



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Burgebrach, 06.02.2019

Sebastian Laske

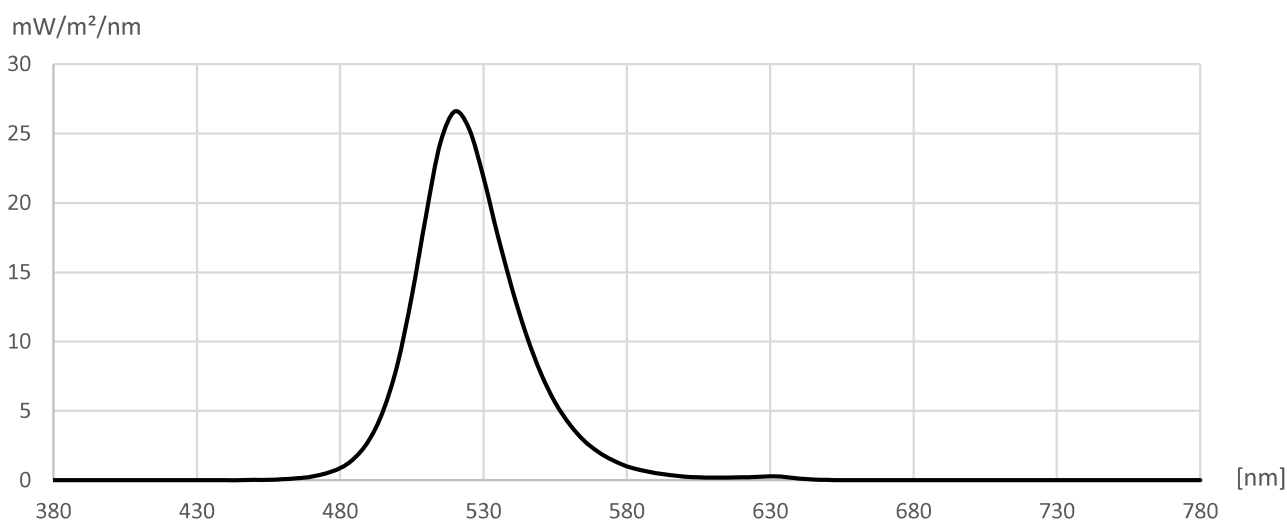
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 3 m / green

Measurement file: 345855_3m_gr.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:32:30



R1 = -33,6	Ra = -23,2
R2 = -7,0	Re = -53,0
R3 = -19,5	GAI = 0,7
R4 = -64,0	
R5 = -8,5	
R6 = -13,5	
R7 = -7,0	
R8 = -32,1	
R9 = #####	
R10 = #####	
R11 = -93,1	
R12 = -28,3	
R13 = -38,9	
R14 = 40,6	
R15 = -38,1	

Illuminance	543,29 lx
Ee	1,103 W/m²
LER	492,5 lm/W
correlated color temperature (CCT)	7729 K
Duv	0,1555
Saturation	78,2 %
Dominant wavelength	525 nm
Peak wavelength	519 nm
Flicker frequency	% < 2.5 Hz
Percent Flicker	< 2.5 %
Flicker index	% < 2.5

CIE1931
x = 0,1767
y = 0,7211
CIE1976
u' = 0,0625
v' = 0,5743
CIE1960
u = 0,0625
v = 0,3829
TM30
Rf = 0,9
Rg = 9,1

[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	0,00	440	0,00	500	8,38	560	4,03	620	0,22	680	0,00	740	0,00
385	0,00	445	0,00	505	13,31	565	2,87	625	0,24	685	0,00	745	0,00
390	0,00	450	0,04	510	19,19	570	2,05	630	0,28	690	0,00	750	0,00
395	0,01	455	0,02	515	24,34	575	1,45	635	0,25	695	0,00	755	0,00
400	0,00	460	0,07	520	26,60	580	1,01	640	0,12	700	0,00	760	0,00
405	0,00	465	0,13	525	25,33	585	0,73	645	0,05	705	0,00	765	0,00
410	0,00	470	0,26	530	21,82	590	0,52	650	0,02	710	0,00	770	0,00
415	0,00	475	0,50	535	17,60	595	0,37	655	0,00	715	0,00	775	0,00
420	0,02	480	0,87	540	13,81	600	0,27	660	0,00	720	0,00	780	0,00
425	0,00	485	1,59	545	10,47	605	0,21	665	0,01	725	0,00		
430	0,00	490	2,86	550	7,72	610	0,19	670	0,00	730	0,00		
435	0,00	495	5,00	555	5,60	615	0,19	675	0,00	735	0,00		

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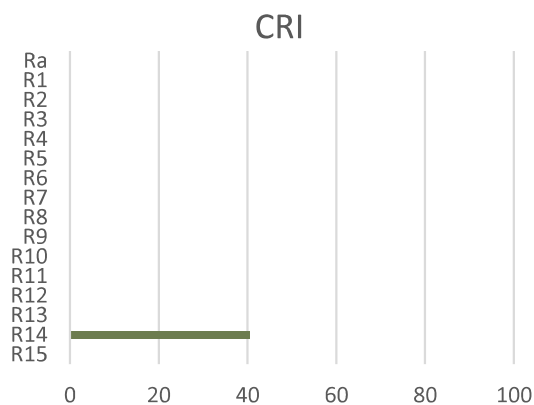
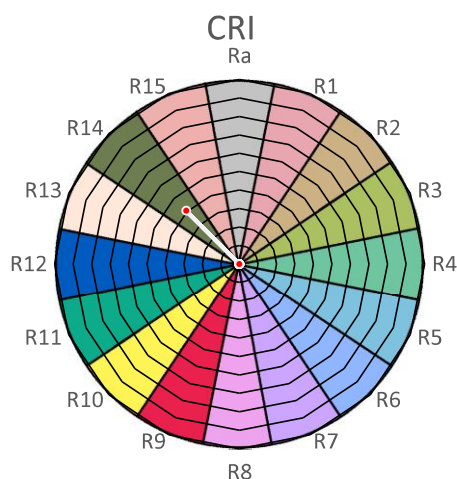
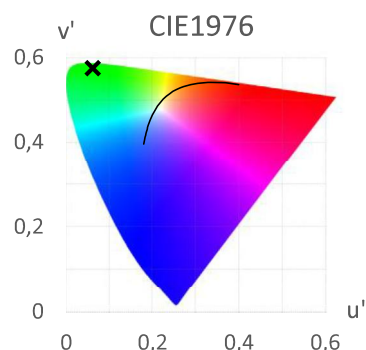
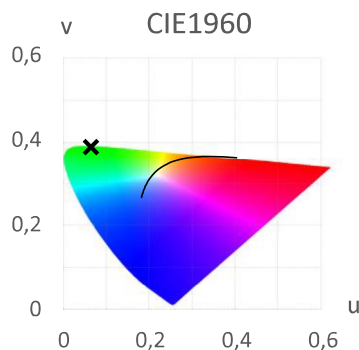
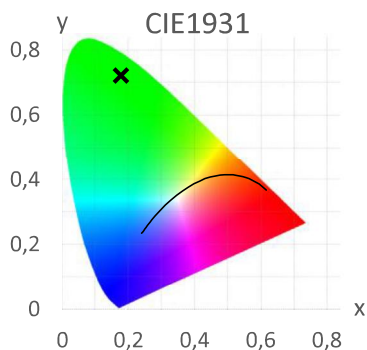
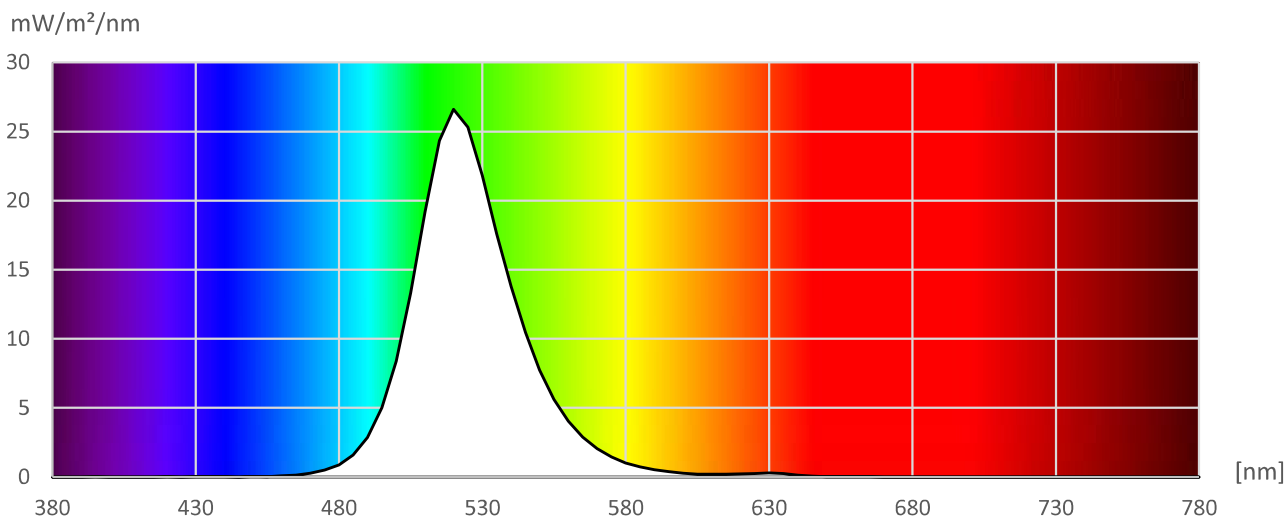
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 3 m / green

Measurement file: 345855_3m_gr.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:32:30



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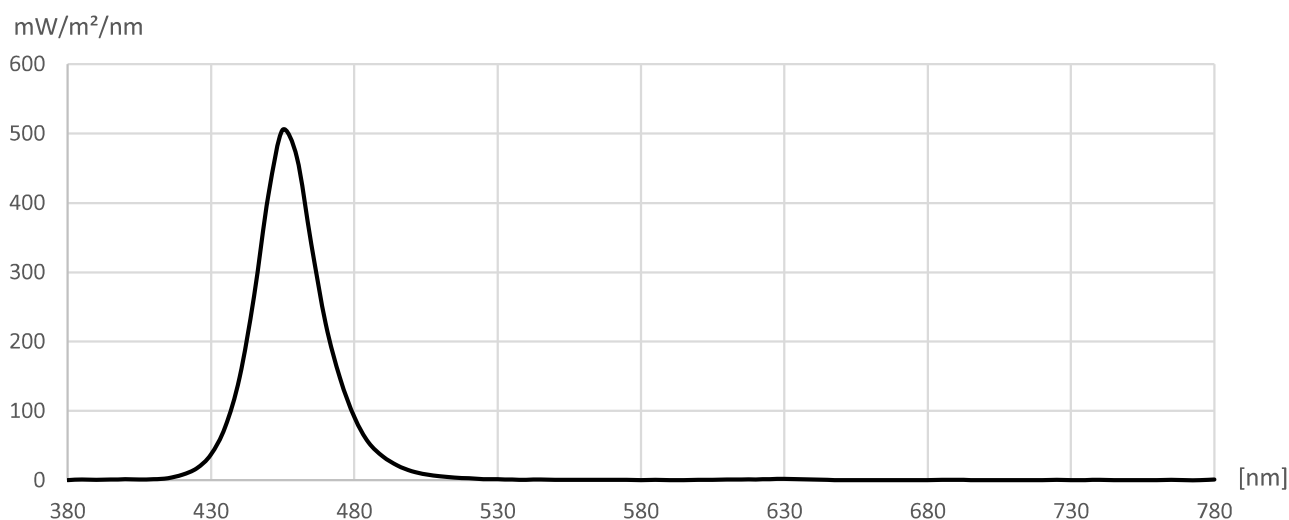
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 1 m / blue

Measurement file: 345855_1m_bl.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:32:44



R1 = -	Ra = -	Illuminance	707,7 lx	CIE1931
R2 = -	Re = -	Ee	14,616 W/m ²	x = 0,1470
R3 = -	GAI = -	LER	48,4 lm/W	y = 0,0381
R4 = -				
R5 = -		correlated color temperature (CCT)	> 50000 K	CIE1976
R6 = -		Duv	-	u' = 0,1859
R7 = -				v' = 0,1083
R8 = -		Saturation	97,8 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	452 nm	u = 0,1859
R11 = -		Peak wavelength	456 nm	v = 0,0722
R12 = -				
R13 = -		Flicker frequency	% < 2.5 Hz	TM30
R14 = -		Percent Flicker	< 2.5 %	Rf = -
R15 = -		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	0,36	440	148,63	500	13,22	560	0,71	620	1,24	680	0,33	740	0,53
385	1,10	445	265,01	505	8,35	565	0,72	625	1,71	685	0,44	745	0,01
390	0,49	450	411,37	510	5,84	570	0,55	630	1,97	690	0,50	750	0,00
395	1,01	455	504,94	515	3,80	575	0,62	635	1,57	695	0,34	755	0,25
400	1,31	460	465,70	520	2,74	580	0,17	640	1,03	700	0,06	760	0,26
405	1,25	465	340,80	525	1,70	585	0,41	645	0,46	705	0,12	765	0,47
410	1,33	470	225,72	530	1,33	590	0,26	650	0,18	710	0,31	770	0,09
415	3,09	475	147,17	535	0,89	595	0,31	655	0,28	715	0,00	775	0,01
420	7,92	480	90,84	540	0,83	600	0,63	660	0,26	720	0,21	780	1,07
425	17,31	485	54,51	545	0,99	605	0,63	665	0,18	725	0,42		
430	37,00	490	34,18	550	0,63	610	1,12	670	0,32	730	0,15		
435	76,92	495	21,37	555	0,67	615	1,29	675	0,23	735	0,38		

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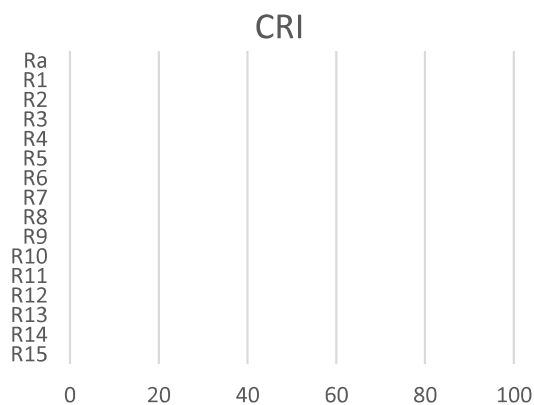
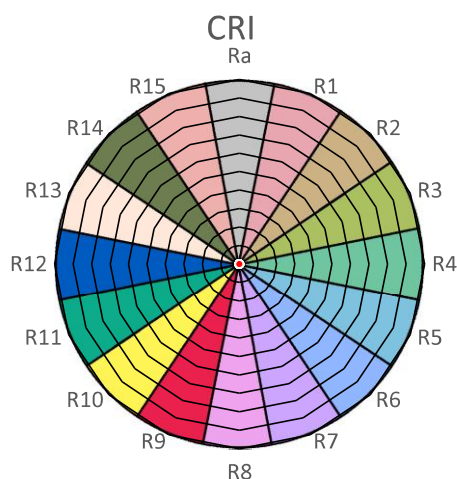
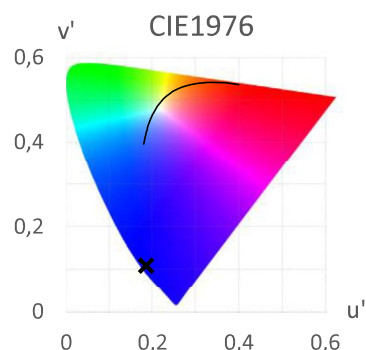
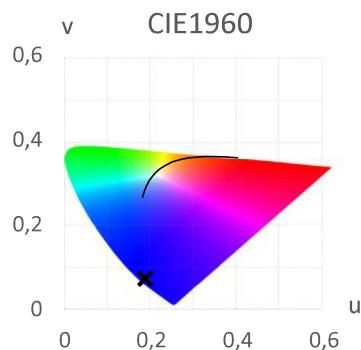
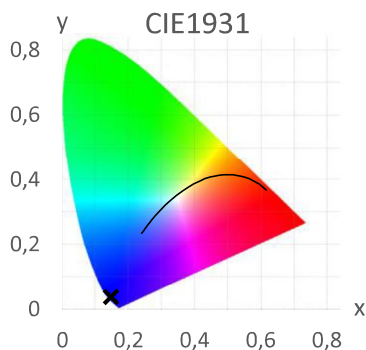
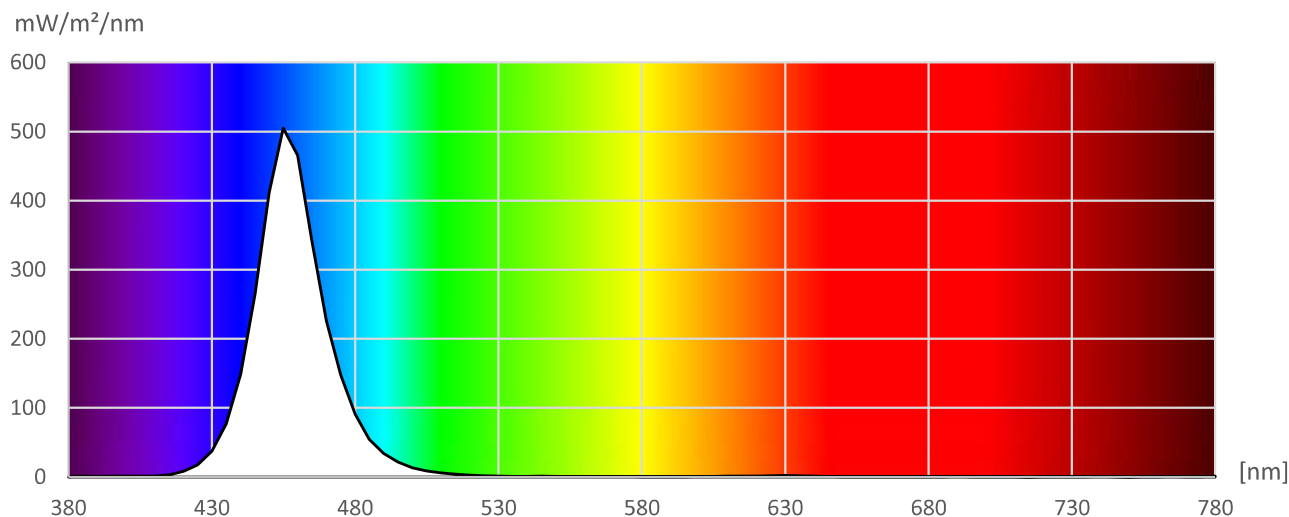
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 1 m / blue

Measurement file: 345855_1m_bl.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:32:44



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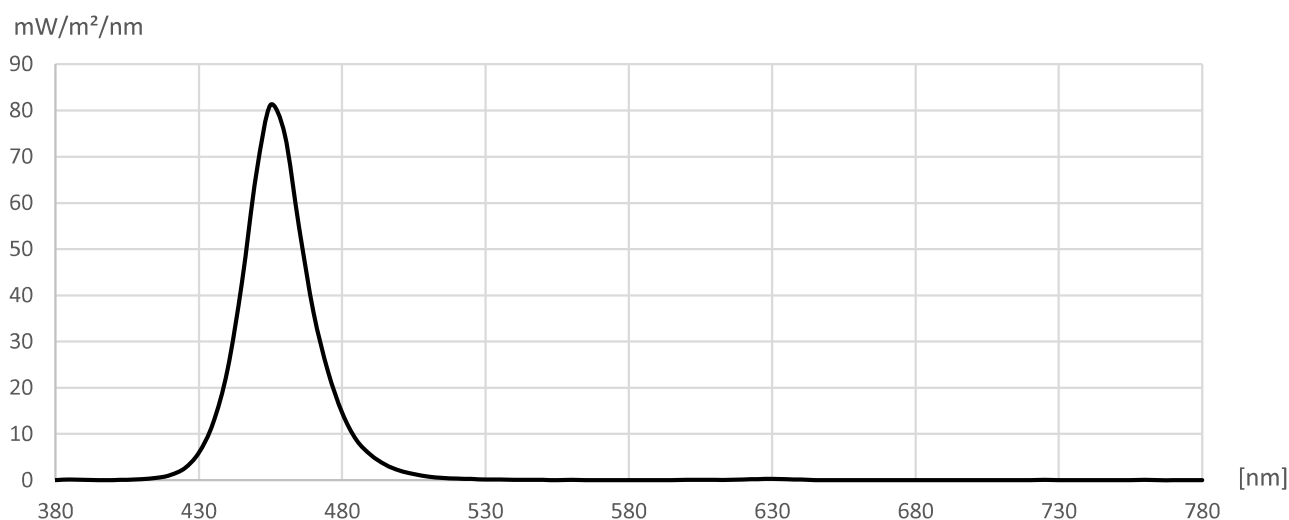
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 3 m / blue

Measurement file: 345855_3m_bl.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:32:50



R1 = -	Ra = -	Illuminance	110,27 lx	CIE1931
R2 = -	Re = -	Ee	2,332 W/m²	x = 0,1464
R3 = -	GAI = -	LER	47,3 lm/W	y = 0,0370
R4 = -				
R5 = -		correlated color temperature (CCT)	> 50000 K	CIE1976
R6 = -		Duv	-	u' = 0,1858
R7 = -				v' = 0,1057
R8 = -		Saturation	98,1 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	452 nm	u = 0,1858
R11 = -		Peak wavelength	456 nm	v = 0,0704
R12 = -				
R13 = -		Flicker frequency	% < 2.5 Hz	TM30
R14 = -		Percent Flicker	< 2.5 %	Rf = -
R15 = -		Flicker index	% < 2.5	Rg = -

[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	0,04	440	23,90	500	2,08	560	0,08	620	0,17	680	0,00	740	0,00
385	0,17	445	42,64	505	1,31	565	0,04	625	0,26	685	0,00	745	0,00
390	0,09	450	66,22	510	0,81	570	0,00	630	0,28	690	0,00	750	0,00
395	0,01	455	81,13	515	0,51	575	0,04	635	0,20	695	0,01	755	0,03
400	0,05	460	74,78	520	0,35	580	0,01	640	0,13	700	0,00	760	0,07
405	0,10	465	54,64	525	0,27	585	0,02	645	0,05	705	0,00	765	0,00
410	0,26	470	36,34	530	0,18	590	0,02	650	0,03	710	0,02	770	0,00
415	0,51	475	23,62	535	0,15	595	0,05	655	0,00	715	0,00	775	0,01
420	1,10	480	14,52	540	0,11	600	0,07	660	0,01	720	0,00	780	0,00
425	2,60	485	8,73	545	0,10	605	0,07	665	0,00	725	0,06		
430	5,91	490	5,46	550	0,06	610	0,07	670	0,00	730	0,00		
435	12,39	495	3,38	555	0,04	615	0,07	675	0,00	735	0,03		

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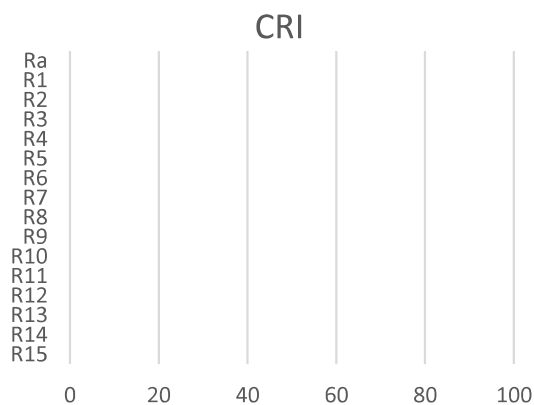
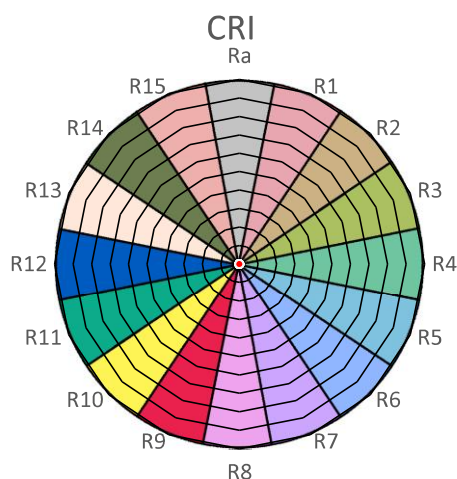
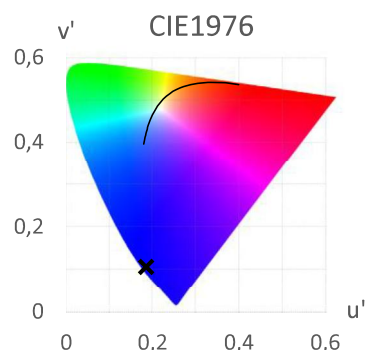
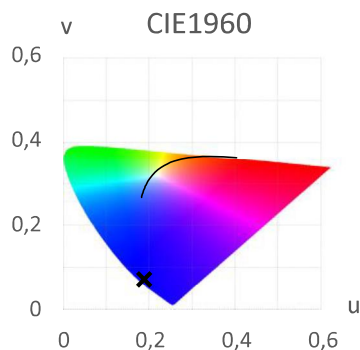
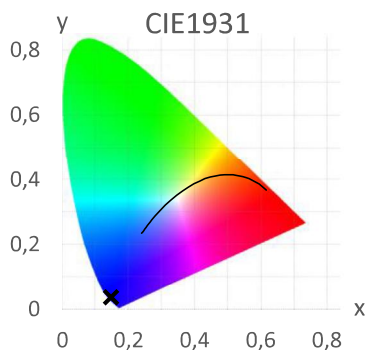
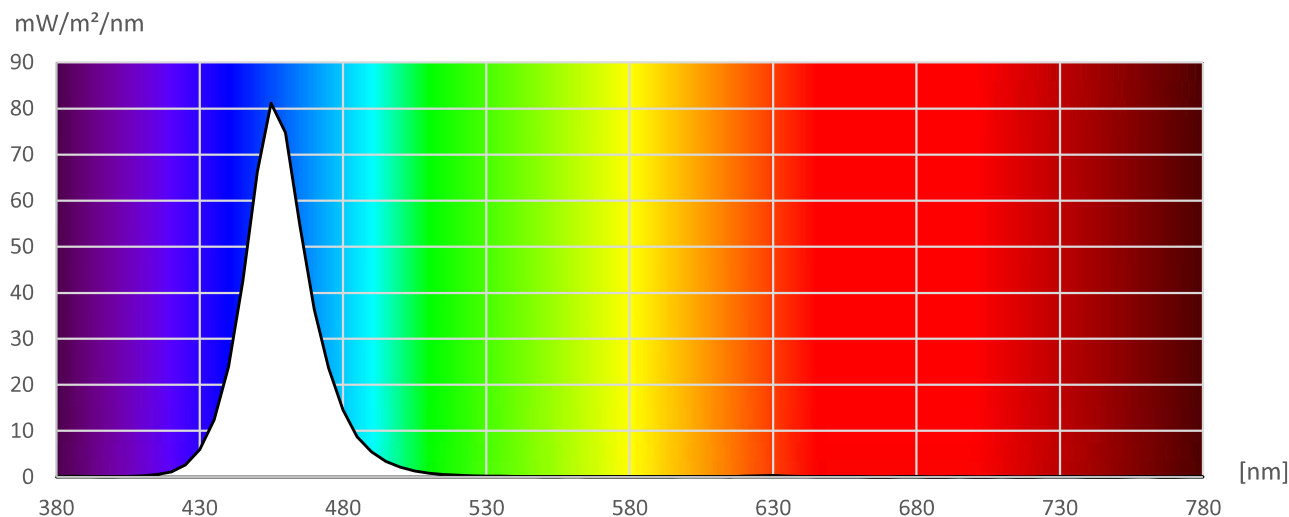
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 3 m / blue

Measurement file: 345855_3m_bl.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:32:50



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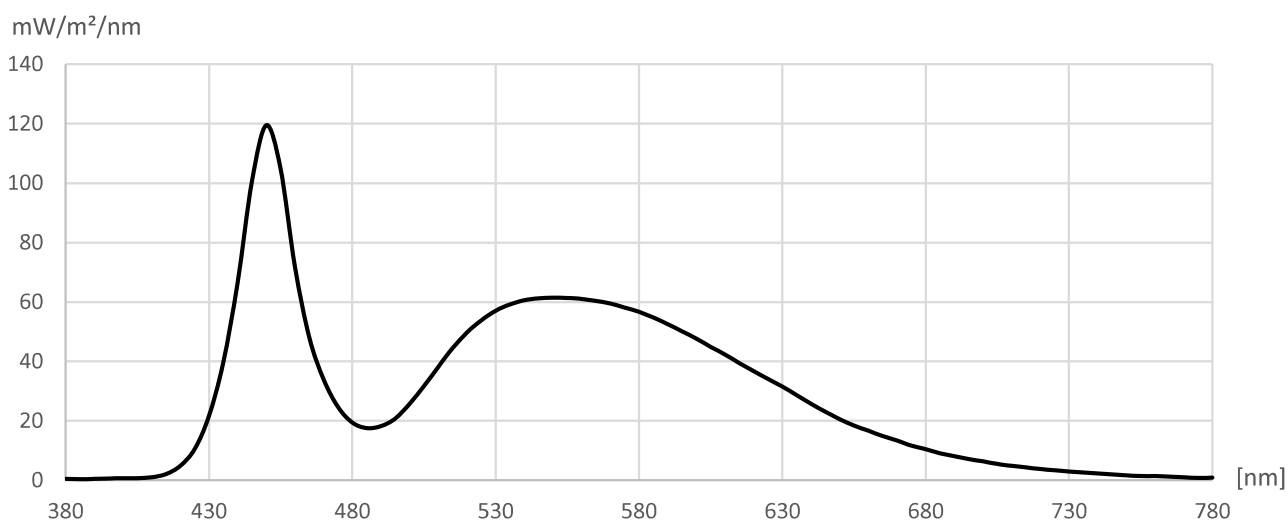
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 1 m / white

Measurement file: 345855_1m_wh.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:33:05



R1 = 72,9	Ra = 75,0
R2 = 78,9	Re = 65,3
R3 = 80,9	GAI = 85,7
R4 = 75,4	
R5 = 73,4	
R6 = 70,1	
R7 = 84,2	
R8 = 64,4	
R9 = -15,2	
R10 = 47,7	
R11 = 71,8	
R12 = 43,3	
R13 = 73,9	
R14 = 89,2	
R15 = 68,5	

Illuminance	3696,3 lx
Ee	11,585 W/m²
LER	319,1 lm/W
correlated color temperature (CCT)	6350 K
Duv	0,0036
Saturation	6,2 %
Dominant wavelength	488 nm
Peak wavelength	449 nm
Flicker frequency	% < 2.5 Hz
Percent Flicker	< 2.5 %
Flicker index	% < 2.5

CIE1931
x = 0,3152
y = 0,3322
CIE1976
u' = 0,1983
v' = 0,4704
CIE1960
u = 0,1983
v = 0,3136
TM30
Rf = 72,5
Rg = 93,9

[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	0,47	440	66,52	500	25,68	560	60,99	620	36,70	680	10,44	740	2,29
385	0,31	445	100,77	505	31,75	565	60,35	625	34,06	685	9,11	745	1,98
390	0,45	450	119,49	510	38,20	570	59,47	630	31,52	690	8,05	750	1,66
395	0,61	455	104,92	515	44,40	575	58,11	635	28,68	695	7,13	755	1,38
400	0,66	460	71,93	520	49,70	580	56,65	640	25,71	700	6,35	760	1,39
405	0,72	465	48,12	525	53,84	585	54,75	645	23,05	705	5,49	765	1,26
410	1,00	470	33,90	530	57,06	590	52,50	650	20,61	710	4,82	770	0,96
415	2,11	475	24,61	535	59,17	595	50,16	655	18,42	715	4,32	775	0,80
420	4,85	480	19,40	540	60,59	600	47,68	660	16,70	720	3,77	780	0,84
425	10,58	485	17,55	545	61,20	605	44,91	665	14,87	725	3,37		
430	21,57	490	18,16	550	61,43	610	42,30	670	13,33	730	2,92		
435	39,56	495	20,79	555	61,35	615	39,44	675	11,64	735	2,61		

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Burgebrach, 06.02.2019

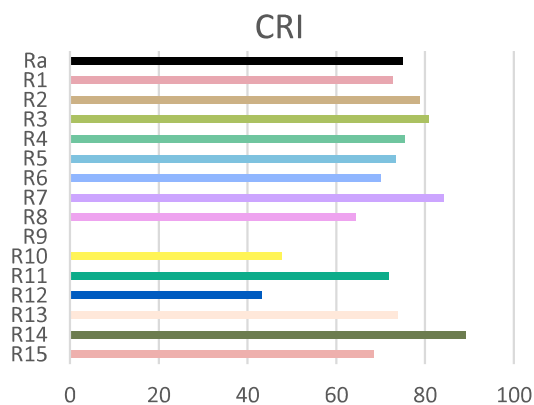
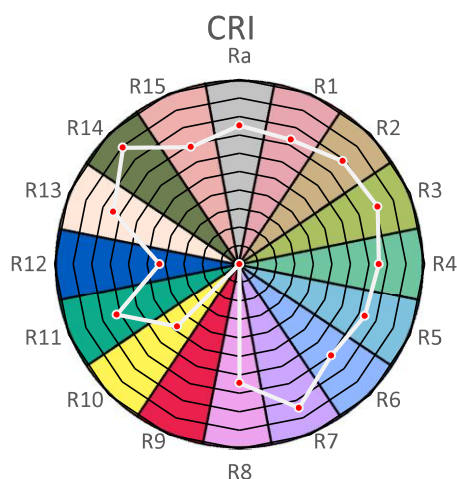
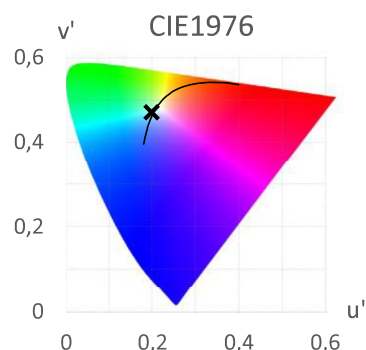
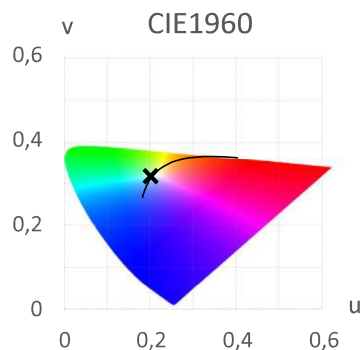
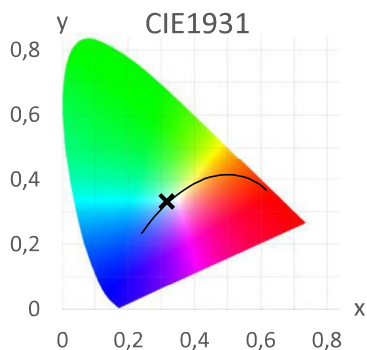
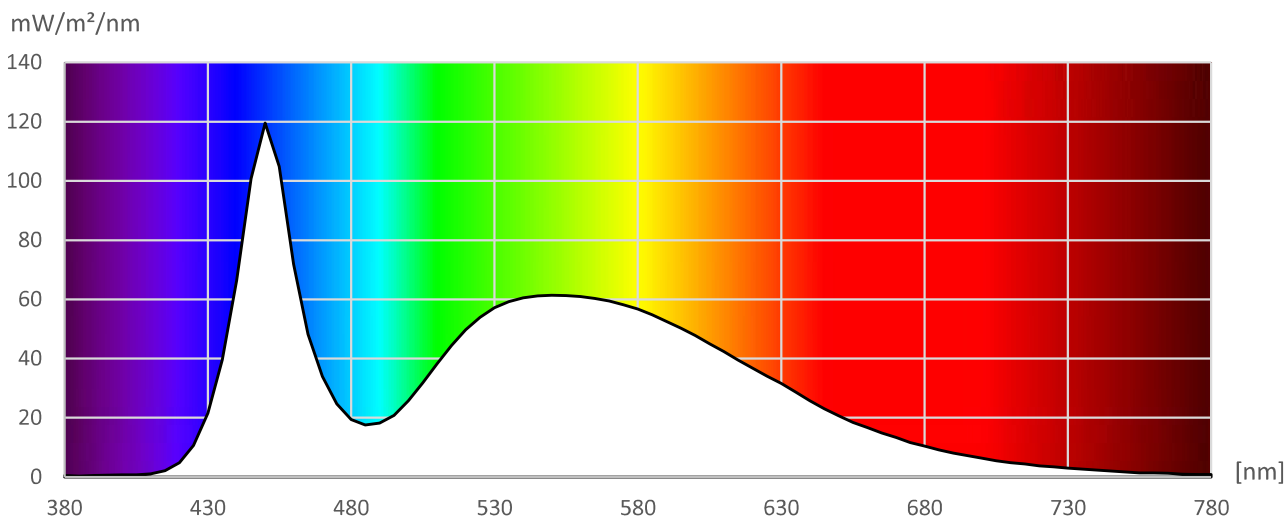
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 1 m / white

Measurement file: 345855_1m_wh.CS
Date of measurement: 01.02.2019
Time of measurement: 20:33:05



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Burgebrach, 06.02.2019

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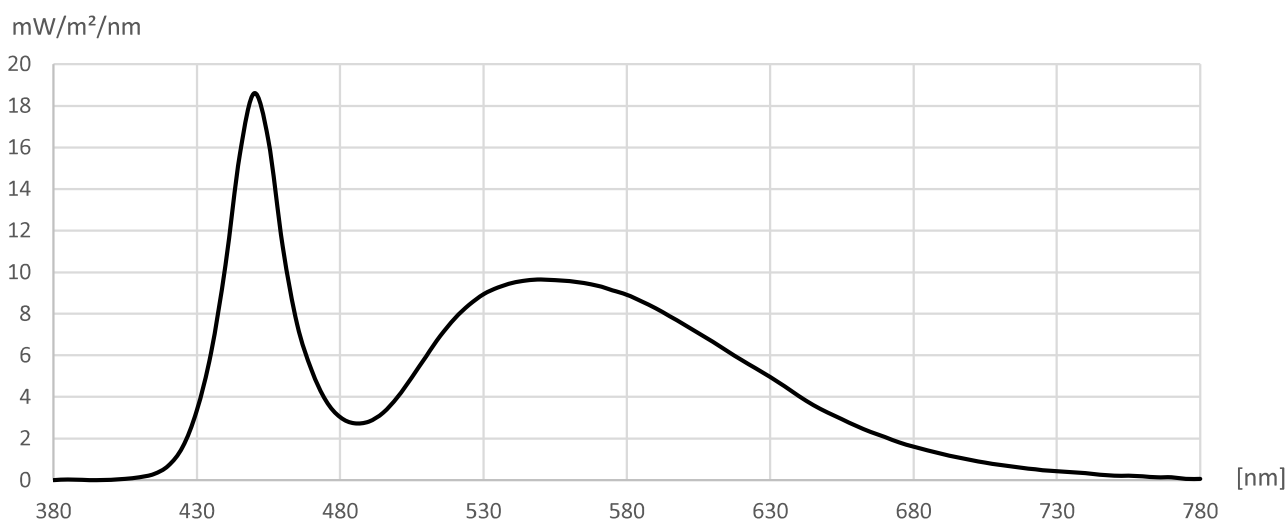
First, last name of inspector

Measurement protocol

th.mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 3 m / white

Measurement file: 345855_3m_wh.CSV
Date of measurement: 01.02.2019
Time of measurement: 20:33:20



R1 = 72,7	Ra = 75,0	Illuminance	580 lx	CIE1931
R2 = 78,9	Re = 65,2	Ee	1,809 W/m ²	x = 0,3161
R3 = 81,0	GAI = 85,5	LER	320,7 lm/W	y = 0,3332
R4 = 75,3				
R5 = 73,3		correlated color temperature (CCT)	6298 K	CIE1976
R6 = 70,1		Duv	0,0037	u' = 0,1986
R7 = 84,2				v' = 0,4710
R8 = 64,2		Saturation	5,8 %	
R9 = -15,6				CIE1960
R10 = 47,7		Dominant wavelength	489 nm	u = 0,1986
R11 = 71,6		Peak wavelength	449 nm	v = 0,3140
R12 = 43,2				
R13 = 73,8		Flicker frequency	% < 2.5 Hz	TM30
R14 = 89,3		Percent Flicker	< 2.5 %	Rf = 72,5
R15 = 68,3		Flicker index	% < 2.5	Rg = 93,9

[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	10,34	500	3,99	560	9,57	620	5,78	680	1,61	740	0,34
385	0,04	445	15,67	505	4,95	565	9,48	625	5,38	685	1,44	745	0,27
390	0,02	450	18,60	510	5,97	570	9,35	630	4,96	690	1,26	750	0,22
395	0,01	455	16,35	515	6,94	575	9,14	635	4,51	695	1,11	755	0,21
400	0,03	460	11,22	520	7,78	580	8,92	640	4,05	700	0,97	760	0,19
405	0,07	465	7,50	525	8,43	585	8,61	645	3,62	705	0,85	765	0,14
410	0,14	470	5,30	530	8,94	590	8,27	650	3,26	710	0,75	770	0,14
415	0,30	475	3,82	535	9,26	595	7,89	655	2,94	715	0,64	775	0,07
420	0,70	480	3,02	540	9,48	600	7,48	660	2,61	720	0,56	780	0,06
425	1,59	485	2,74	545	9,60	605	7,07	665	2,33	725	0,48		
430	3,34	490	2,82	550	9,65	610	6,65	670	2,07	730	0,44		
435	6,14	495	3,25	555	9,61	615	6,21	675	1,82	735	0,38		

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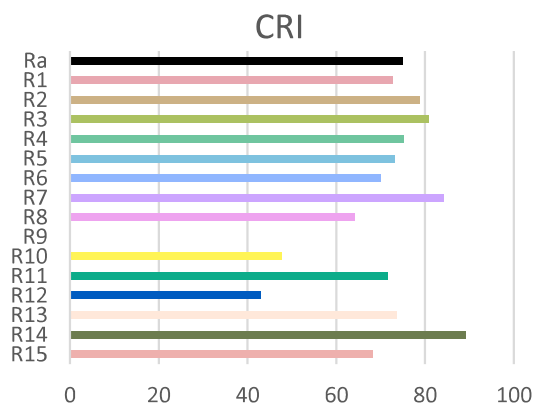
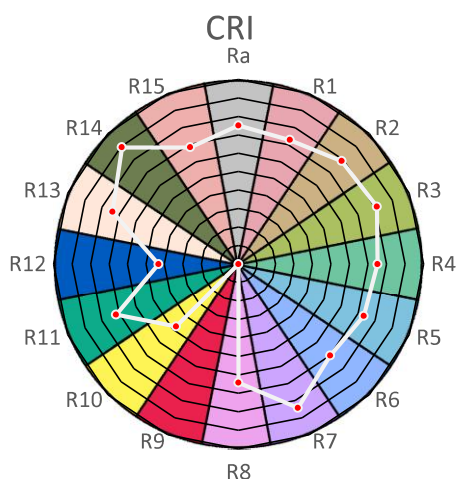
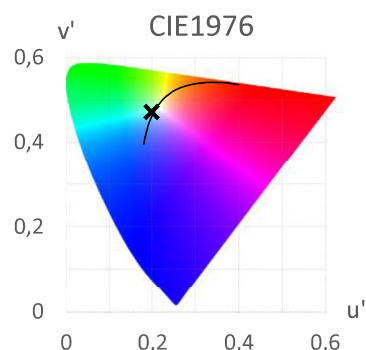
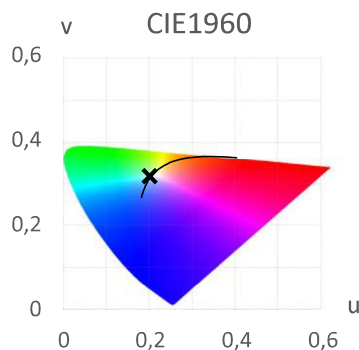
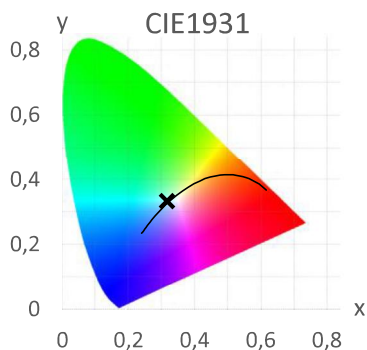
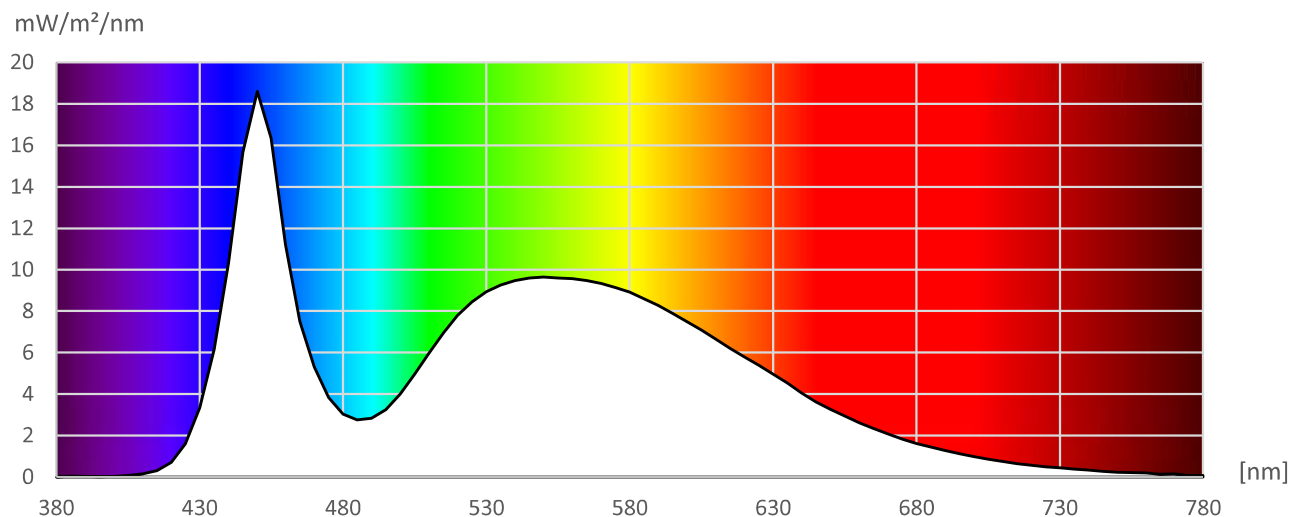
First, last name of inspector

Measurement protocol

th•mann

Test object: Stairville
Stage Flood QCL 24x10W RGBW
Item 345855 / @ 3 m / white

Measurement file: 345855_3m_wh.CS
Date of measurement: 01.02.2019
Time of measurement: 20:33:20



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First, last name of inspector