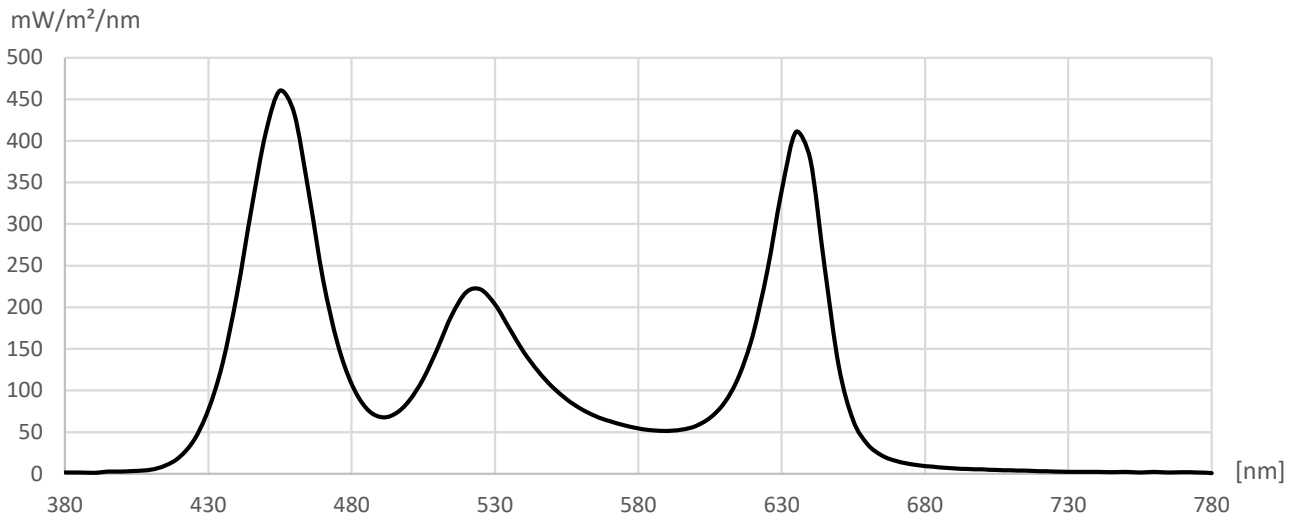


Measurement protocol



Test object: Ignition
2bright Pint FC150 IP
481586 / 1m / all

Measurement file: 481586_1m_all.CSV
Date of measurement: 23.03.2021
Time of measurement: 16:45:32



R1 = 30,1	Ra = 47,0	Illuminance	9015,44 lx	CIE1931
R2 = 71,8	Re = 28,2	Ee	39,782 W/m ²	x = 0,2819
R3 = 63,5	GAI = 159,2	LER	226,6 lm/W	y = 0,2510
R4 = 33,6				
R5 = 46,9		correlated color temperature (CCT)	13722 K	CIE1976
R6 = 73,6		Duv	-0,022	u' = 0,2069
R7 = 63,9		Saturation	27,1 %	v' = 0,4146
R8 = -7,7				
R9 = #####				CIE1960
R10 = 49,2		Dominant wavelength	451 nm	u = 0,2069
R11 = 19,7		Peak wavelength	456 nm	v = 0,2764
R12 = 68,5				
R13 = 39,1		Flicker frequency	14,7 Hz	TM30
R14 = 74,1		Percent Flicker	1,1 %	Rf = 63,9
R15 = 4,3		Flicker index	0,002	Rg = 120,2

[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	1,60	440	215,69	500	87,46	560	77,92	620	167,73	680	9,33	740	2,28
385	1,55	445	317,52	505	114,41	565	69,34	625	242,83	685	7,75	745	1,82
390	1,07	450	409,79	510	151,25	570	63,11	630	339,41	690	6,44	750	2,17
395	2,46	455	460,48	515	190,89	575	58,33	635	410,65	695	5,63	755	1,44
400	2,73	460	432,92	520	218,14	580	54,49	640	377,23	700	5,27	760	2,24
405	3,42	465	338,95	525	221,41	585	52,21	645	247,12	705	4,50	765	1,52
410	4,80	470	233,92	530	203,47	590	51,51	650	128,93	710	4,05	770	1,76
415	9,75	475	157,31	535	174,59	595	52,76	655	63,92	715	3,61	775	1,51
420	20,16	480	107,60	540	146,76	600	57,32	660	35,42	720	3,13	780	0,82
425	40,72	485	79,26	545	123,38	605	67,18	665	21,84	725	2,79		
430	76,19	490	68,20	550	104,54	610	85,15	670	15,24	730	2,27		
435	132,51	495	71,60	555	89,39	615	116,57	675	11,64	735	2,42		

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

Sebastian Laske

Burgebrach, 24.03.2021

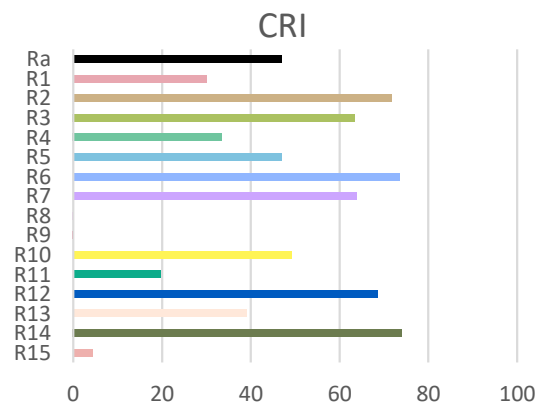
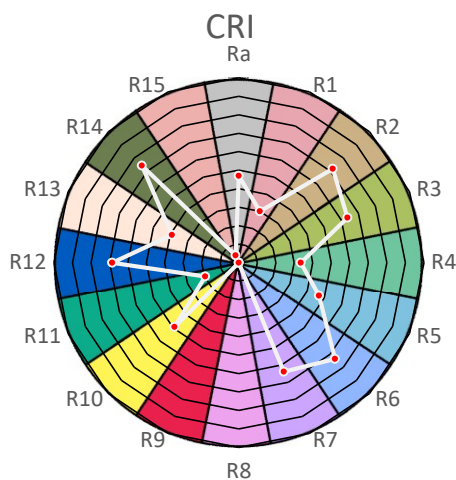
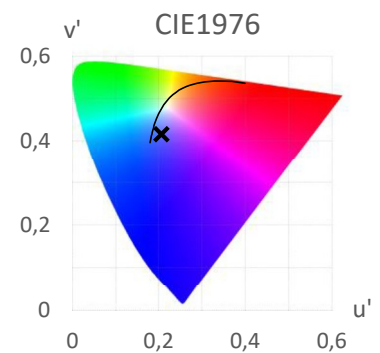
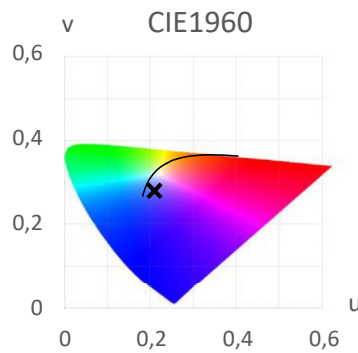
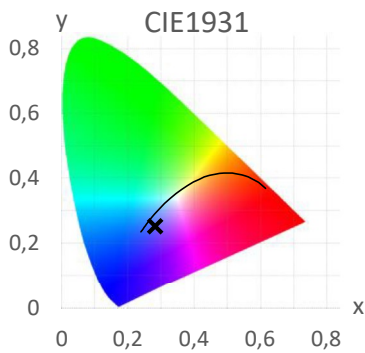
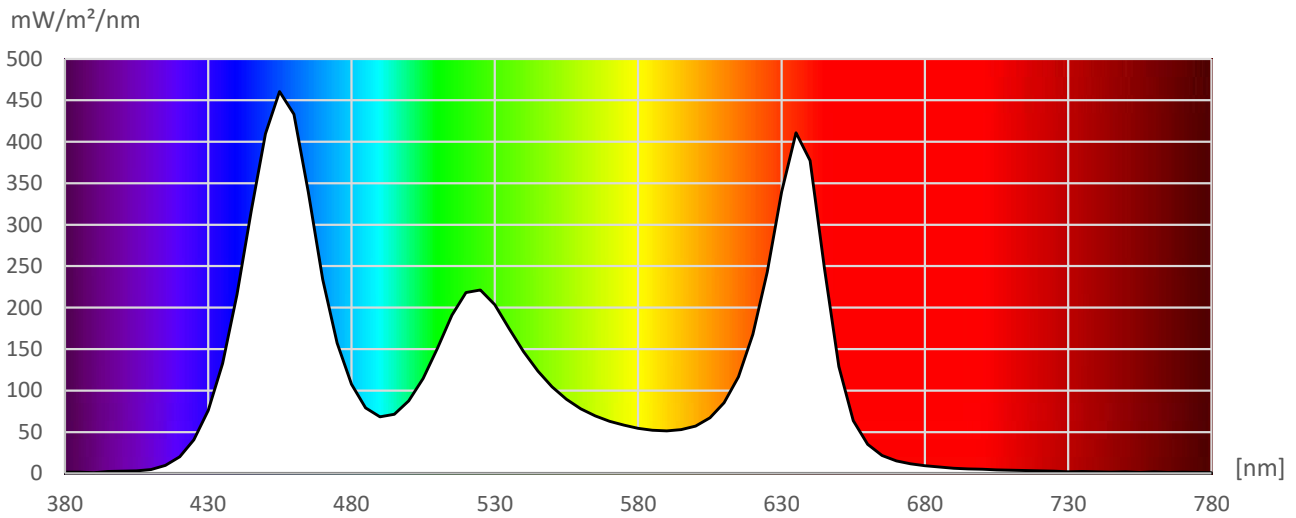
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 1m / all

Measurement file: 481586_1m_all.CS
 Date of measurement: 23.03.2021
 Time of measurement: 16:45:32



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

Burgebrach, 23.03.2021

Sebastian Laske

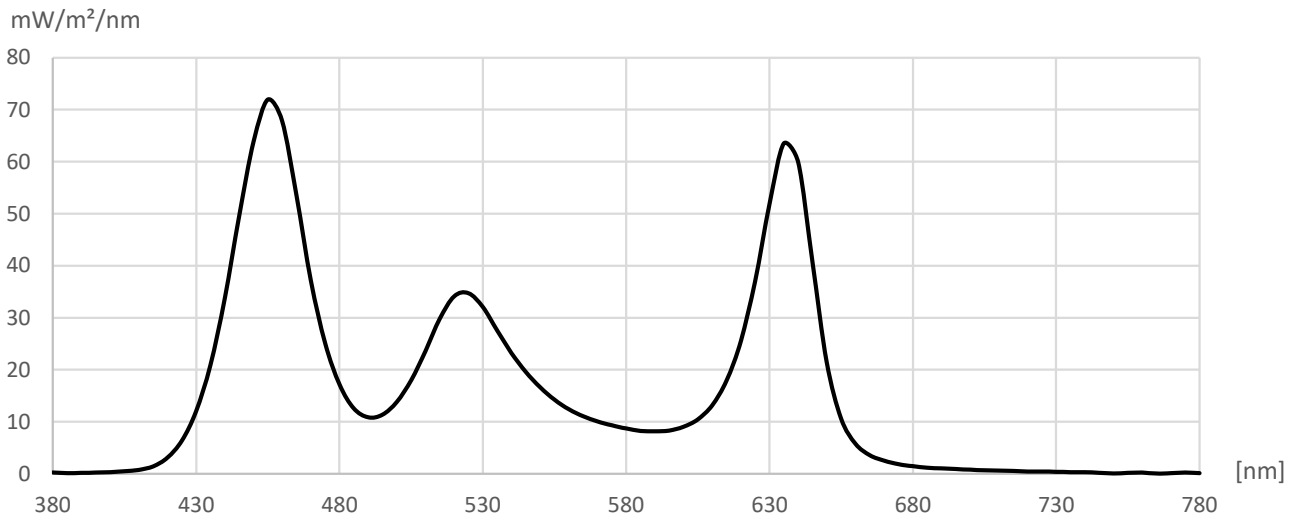
First, last name of inspector

Measurement protocol



Test object: Ignition
2bright Pint FC150 IP
481586 / 3m / all

Measurement file: 481586_3m_all.CSV
Date of measurement: 23.03.2021
Time of measurement: 16:45:49



R1 = 31,7	Ra = 48,1	Illuminance	1417,49 lx	CIE1931
R2 = 72,6	Re = 29,5	Ee	6,243 W/m ²	x = 0,2812
R3 = 63,9	GAI = 158,2	LER	227,0 lm/W	y = 0,2516
R4 = 35,4				
R5 = 48,3		correlated color temperature (CCT)	13778 K	CIE1976
R6 = 74,7		Duv	-0,0212	u' = 0,2062
R7 = 64,3		Saturation	27,2 %	v' = 0,4149
R8 = -6,3				
R9 = #####				CIE1960
R10 = 50,8		Dominant wavelength	453 nm	u = 0,2062
R11 = 22,0		Peak wavelength	456 nm	v = 0,2766
R12 = 68,8				
R13 = 40,5		Flicker frequency	% < 1.0 Hz	TM30
R14 = 74,5		Percent Flicker	< 1.0 %	Rf = 64,3
R15 = 5,9		Flicker index	% < 1.0	Rg = 119,7

[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	[nm]	mW/m ² /nm
380	0,26	440	33,74	500	13,79	560	12,37	620	25,53	680	1,44	740	0,30		
385	0,12	445	49,58	505	18,02	565	11,05	625	36,93	685	1,14	745	0,19		
390	0,15	450	63,87	510	23,64	570	10,06	630	51,78	690	1,01	750	0,06		
395	0,22	455	71,95	515	29,76	575	9,30	635	63,50	695	0,91	755	0,16		
400	0,32	460	67,88	520	34,12	580	8,69	640	59,90	700	0,76	760	0,23		
405	0,50	465	53,56	525	34,73	585	8,25	645	40,54	705	0,67	765	0,03		
410	0,74	470	37,16	530	32,04	590	8,15	650	21,48	710	0,61	770	0,08		
415	1,41	475	25,05	535	27,52	595	8,30	655	10,63	715	0,53	775	0,22		
420	3,10	480	17,13	540	23,22	600	9,03	660	5,77	720	0,44	780	0,10		
425	6,38	485	12,60	545	19,60	605	10,46	665	3,53	725	0,40				
430	12,00	490	10,85	550	16,62	610	13,16	670	2,51	730	0,38				
435	20,86	495	11,35	555	14,22	615	17,92	675	1,84	735	0,31				

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

Sebastian Laske

Burgebrach, 24.03.2021

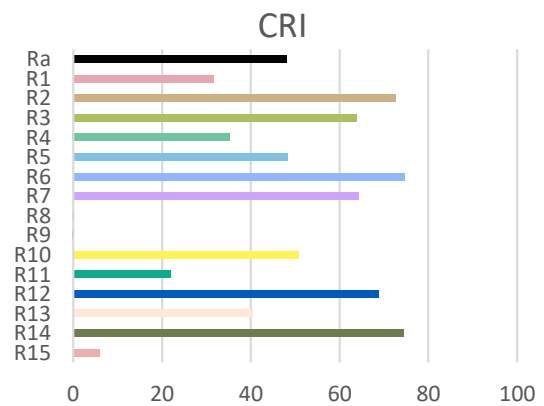
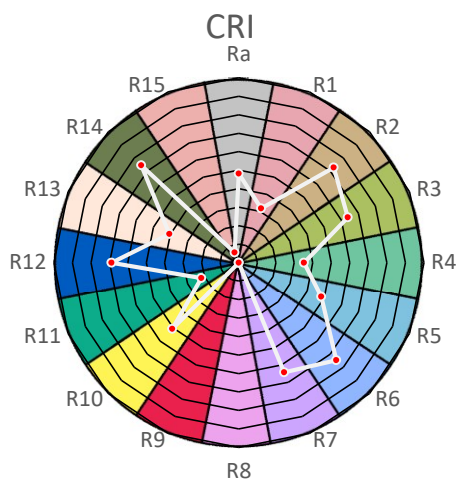
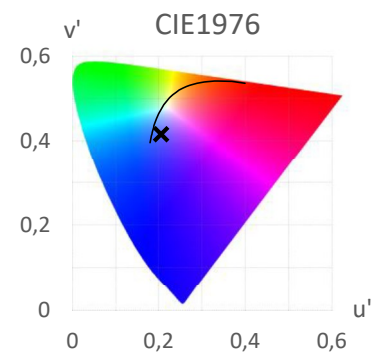
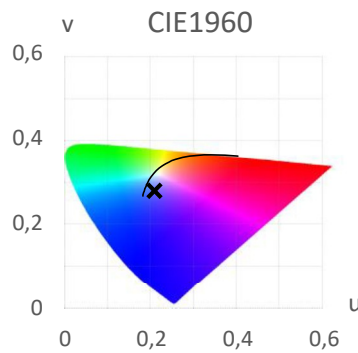
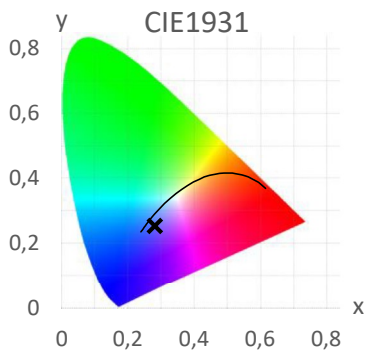
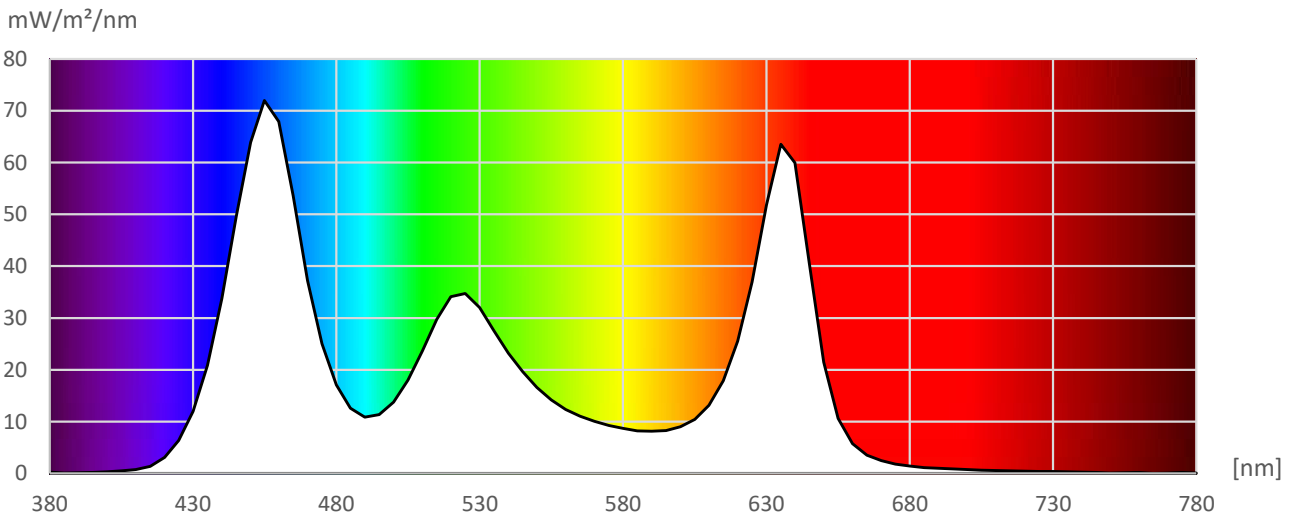
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 3m / all

Measurement file: 481586_3m_all.CS
 Date of measurement: 23.03.2021
 Time of measurement: 16:45:49



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

Burgebrach, 23.03.2021

Sebastian Laske

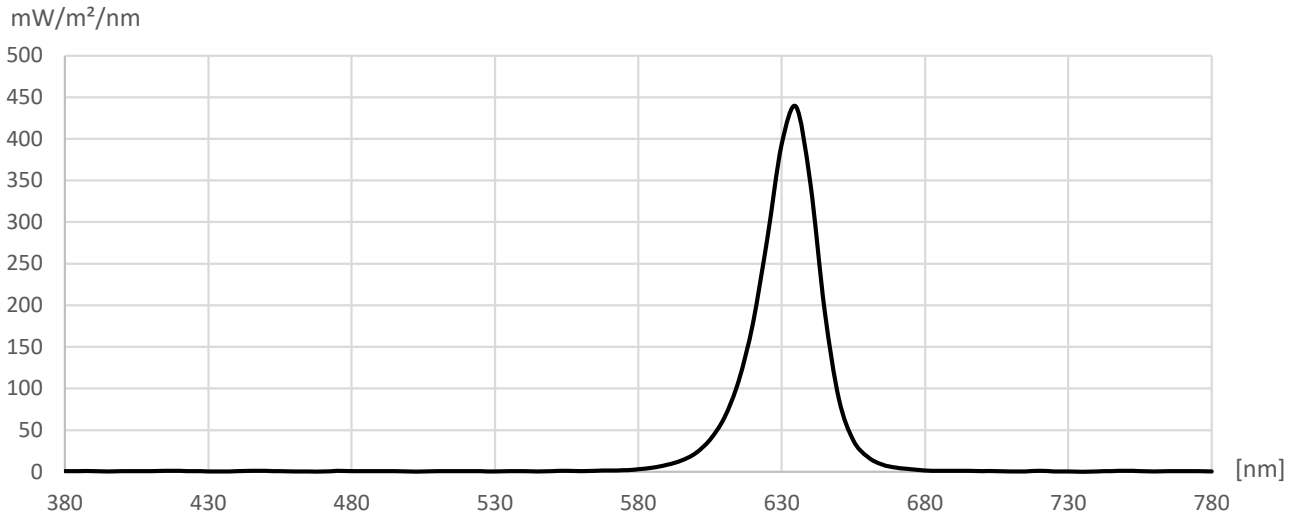
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 1m / red

Measurement file: 481586_1m_r.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:46:00



R1 = -	Ra = -	Illuminance	2087,29 lx	CIE1931
R2 = -	Re = -	Ee	11,483 W/m ²	x = 0,6900
R3 = -	GAI = -	LER	181,8 lm/W	y = 0,3034
R4 = -				
R5 = -		correlated color temperature (CCT)	< 1600 K	CIE1976
R6 = -		Duv	-	u' = 0,5245
R7 = -				v' = 0,5191
R8 = -		Saturation	98,1 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	628 nm	u = 0,5245
R11 = -		Peak wavelength	634 nm	v = 0,3460
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	0,71	440	0,58	500	0,25	560	0,74	620	179,16	680	1,40	740	0,42
385	0,72	445	0,96	505	0,21	565	1,21	625	279,18	685	1,08	745	0,82
390	0,88	450	0,92	510	0,76	570	1,56	630	392,93	690	0,92	750	1,07
395	0,25	455	0,70	515	0,71	575	1,70	635	438,69	695	0,98	755	0,85
400	0,79	460	0,35	520	0,80	580	2,93	640	346,49	700	0,86	760	0,35
405	0,77	465	0,23	525	0,55	585	4,88	645	192,77	705	0,86	765	0,76
410	0,70	470	0,16	530	0,48	590	8,23	650	87,77	710	0,38	770	0,57
415	1,20	475	0,90	535	0,60	595	13,34	655	37,90	715	0,49	775	0,61
420	0,90	480	0,73	540	0,83	600	22,30	660	17,86	720	0,90	780	0,21
425	0,78	485	0,52	545	0,33	605	38,45	665	8,63	725	0,47		
430	0,45	490	0,79	550	0,81	610	65,00	670	4,86	730	0,22		
435	0,38	495	0,62	555	0,94	615	109,47	675	3,10	735	0,02		

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

Sebastian Laske

Burgebrach, 24.03.2021

First, last name of inspector

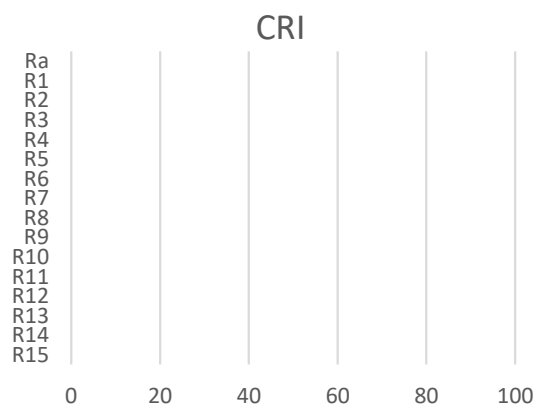
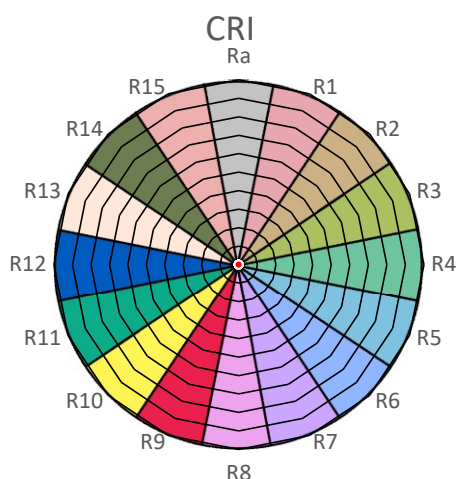
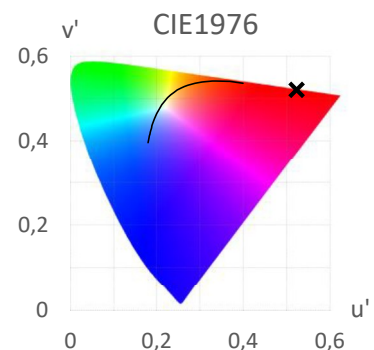
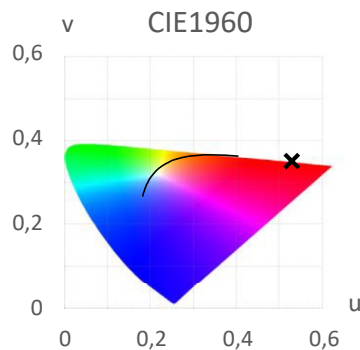
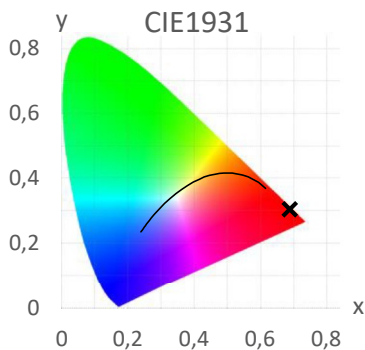
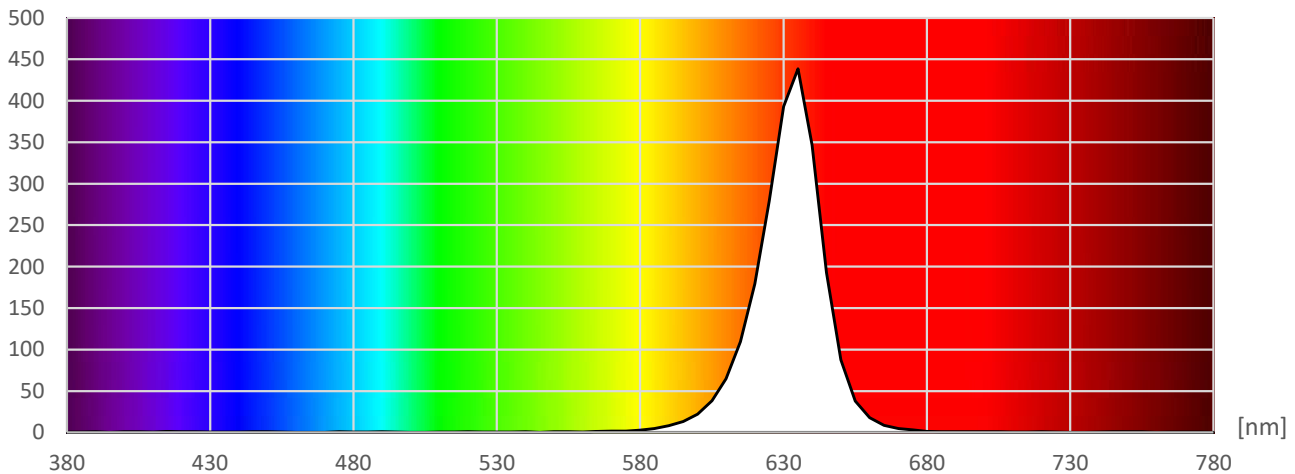
Measurement protocol

th•mann

Test object: Ignition
 2bright Pint FC150 IP
 481586 / 1m / red

Measurement file: 481586_1m_r.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:46:00

mW/m²/nm



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

Sebastian Laske

Burgebrach, 23.03.2021

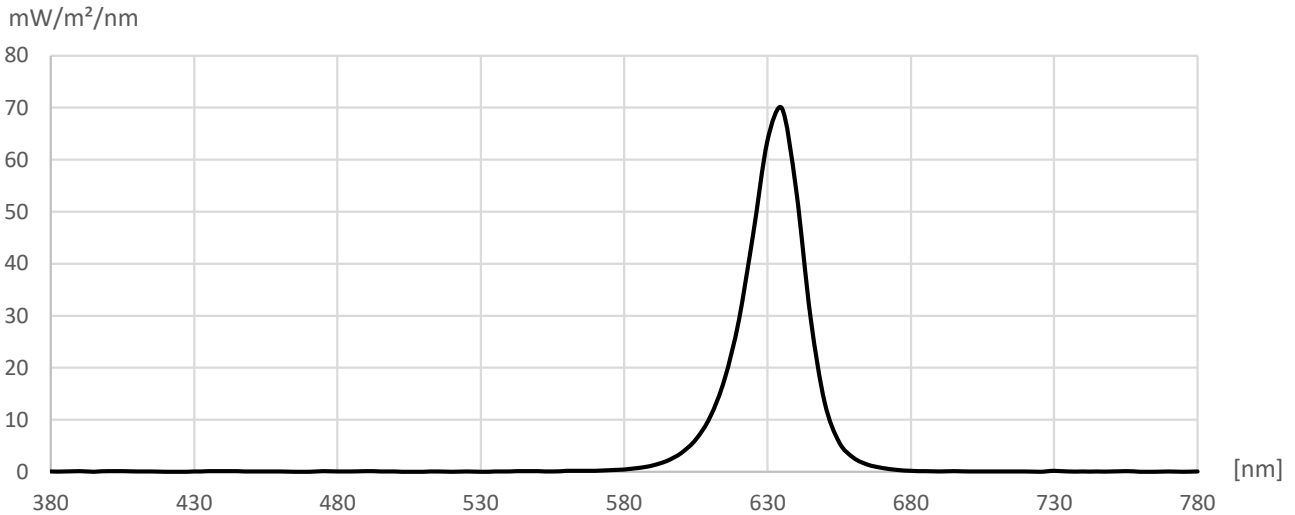
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 3m / red

Measurement file: 481586_3m_r.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:46:08



R1 = -	Ra = -	Illuminance	332,61 lx	CIE1931
R2 = -	Re = -	Ee	1,813 W/m ²	x = 0,6929
R3 = -	GAI = -	LER	183,5 lm/W	y = 0,3035
R4 = -				
R5 = -		correlated color temperature (CCT)	< 1600 K	CIE1976
R6 = -		Duv	-	u' = 0,5273
R7 = -				v' = 0,5197
R8 = -		Saturation	98,9 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	628 nm	u = 0,5273
R11 = -		Peak wavelength	634 nm	v = 0,3464
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	0,10	500	0,03	560	0,16	620	29,15	680	0,17	740	0,02
385	0,03	445	0,09	505	0,00	565	0,19	625	45,50	685	0,12	745	0,02
390	0,09	450	0,05	510	0,01	570	0,17	630	63,61	690	0,07	750	0,04
395	0,02	455	0,05	515	0,04	575	0,31	635	69,88	695	0,10	755	0,13
400	0,11	460	0,05	520	0,01	580	0,44	640	54,10	700	0,06	760	0,00
405	0,09	465	0,00	525	0,03	585	0,75	645	29,58	705	0,03	765	0,00
410	0,07	470	0,01	530	0,01	590	1,22	650	13,35	710	0,06	770	0,03
415	0,04	475	0,08	535	0,03	595	2,10	655	5,72	715	0,07	775	0,02
420	0,00	480	0,07	540	0,08	600	3,64	660	2,67	720	0,06	780	0,03
425	0,00	485	0,05	545	0,09	605	6,18	665	1,37	725	0,00		
430	0,03	490	0,12	550	0,09	610	10,54	670	0,75	730	0,15		
435	0,09	495	0,07	555	0,05	615	17,80	675	0,35	735	0,02		

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

Sebastian Laske

Burgebrach, 24.03.2021

First, last name of inspector

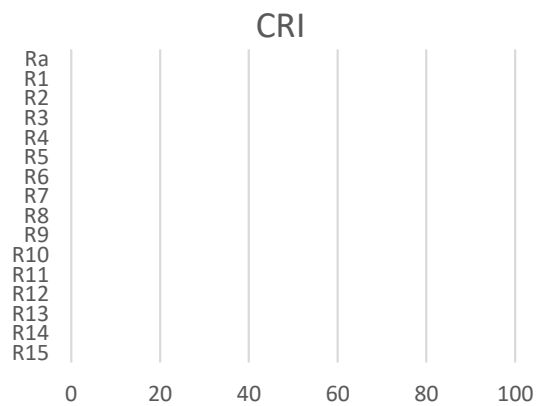
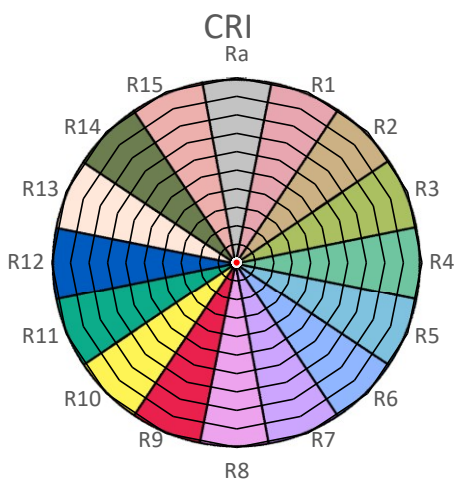
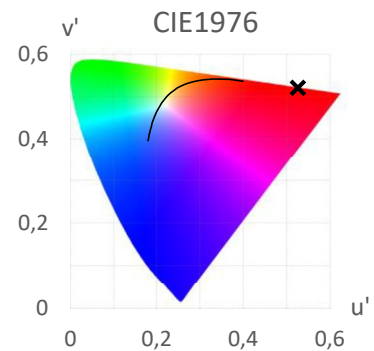
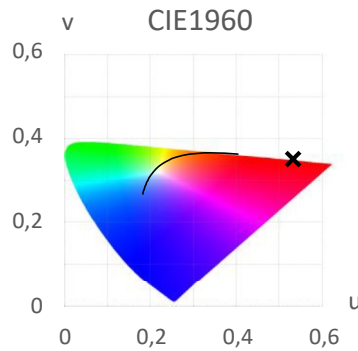
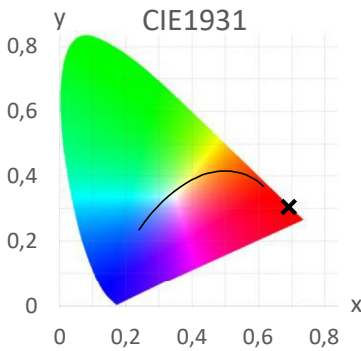
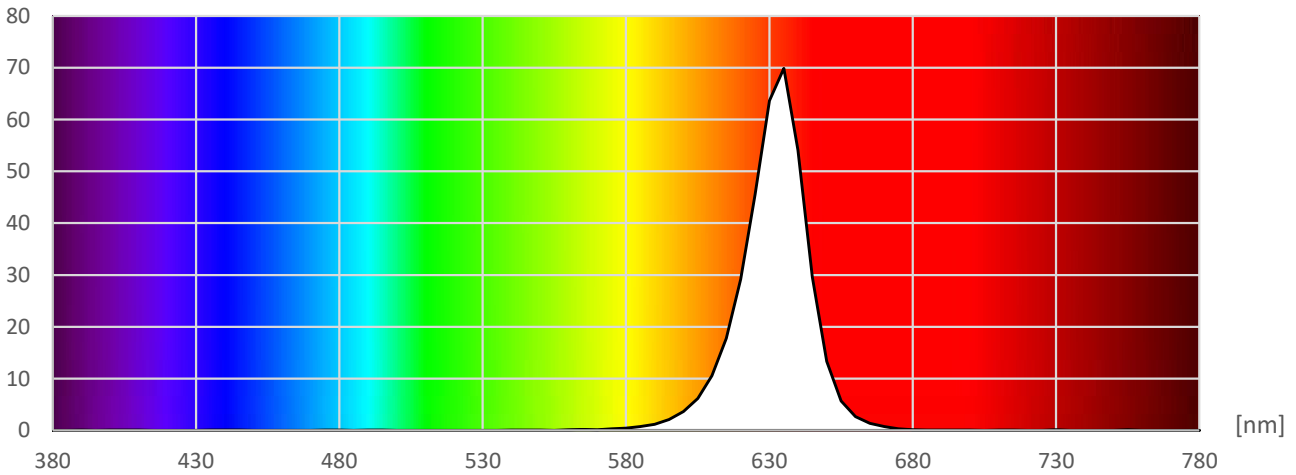
Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 3m / red

Measurement file: 481586_3m_r.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:46:08

mW/m²/nm



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

Sebastian Laske

Burgebrach, 23.03.2021

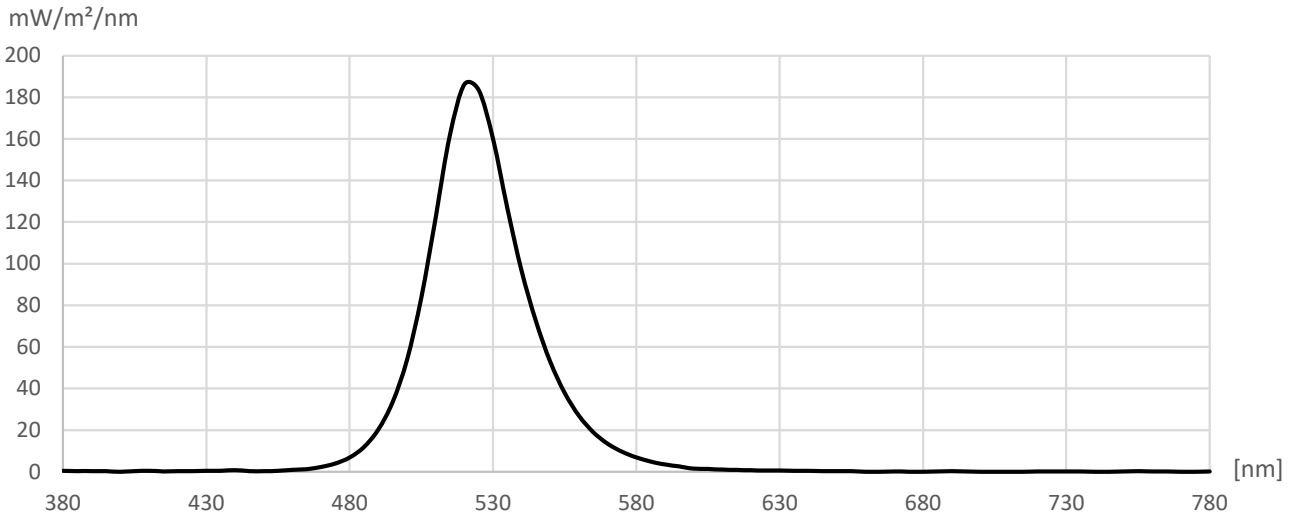
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 1m / green

Measurement file: 481586_1m_gr.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:46:26



R1 = -35,4	Ra = -21,0	Illuminance	3761,86 lx	CIE1931
R2 = -5,2	Re = -52,0	Ee	7,602 W/m ²	x = 0,1747
R3 = -13,8	GAI = 0,8	LER	494,8 lm/W	y = 0,7210
R4 = -60,7				
R5 = -9,7		correlated color temperature (CCT)	7761 K	CIE1976
R6 = -12,4		Duv	0,156	u' = 0,0618
R7 = -0,7				v' = 0,5741
R8 = -30,4		Saturation	78,4 %	
R9 = #####				CIE1960
R10 = -98,6		Dominant wavelength	525 nm	u = 0,0618
R11 = -90,2		Peak wavelength	522 nm	v = 0,3827
R12 = -28,0				
R13 = -40,0		Flicker frequency	% < 1.0 Hz	TM30
R14 = 43,3		Percent Flicker	< 1.0 %	Rf = 1,1
R15 = -39,0		Flicker index	% < 1.0	Rg = 9,8

[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	0,38	440	0,71	500	53,77	560	26,79	620	0,68	680	0,00	740	0,00
385	0,34	445	0,32	505	83,90	565	19,05	625	0,62	685	0,09	745	0,02
390	0,35	450	0,21	510	122,46	570	13,50	630	0,55	690	0,22	750	0,09
395	0,23	455	0,41	515	161,72	575	9,63	635	0,45	695	0,10	755	0,26
400	0,03	460	0,91	520	186,10	580	6,88	640	0,41	700	0,00	760	0,14
405	0,29	465	1,27	525	183,53	585	4,88	645	0,27	705	0,00	765	0,14
410	0,46	470	2,24	530	159,96	590	3,47	650	0,28	710	0,00	770	0,00
415	0,20	475	3,90	535	126,52	595	2,51	655	0,23	715	0,00	775	0,00
420	0,28	480	6,85	540	96,70	600	1,52	660	0,02	720	0,18	780	0,07
425	0,27	485	11,85	545	72,39	605	1,29	665	0,00	725	0,06		
430	0,40	490	20,20	550	52,81	610	1,02	670	0,17	730	0,12		
435	0,48	495	33,46	555	37,87	615	0,87	675	0,04	735	0,08		

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

Sebastian Laske

Burgebrach, 24.03.2021

First, last name of inspector

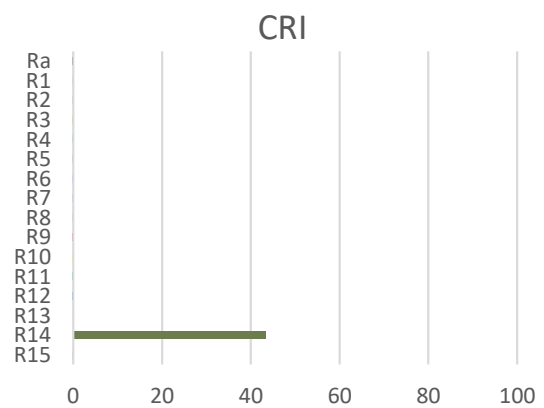
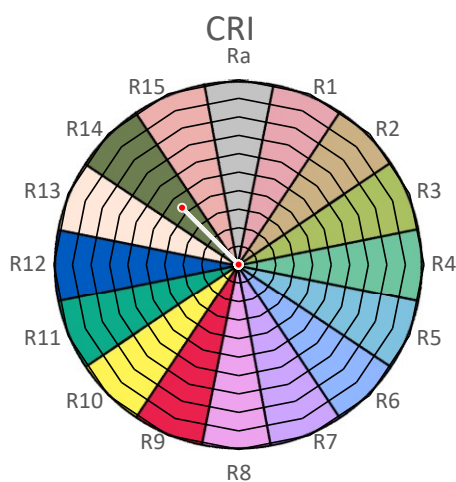
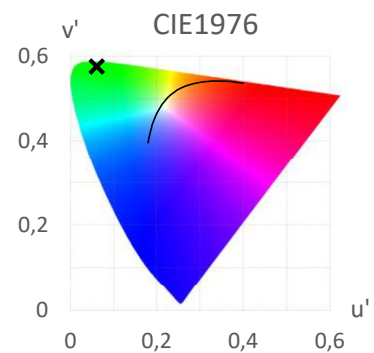
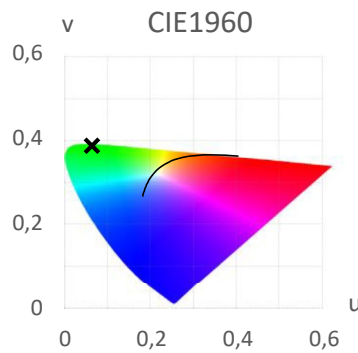
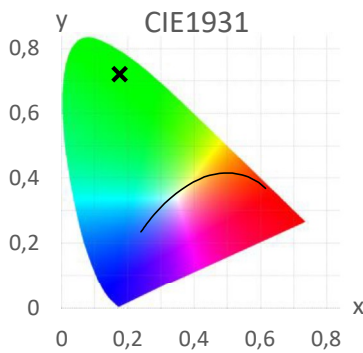
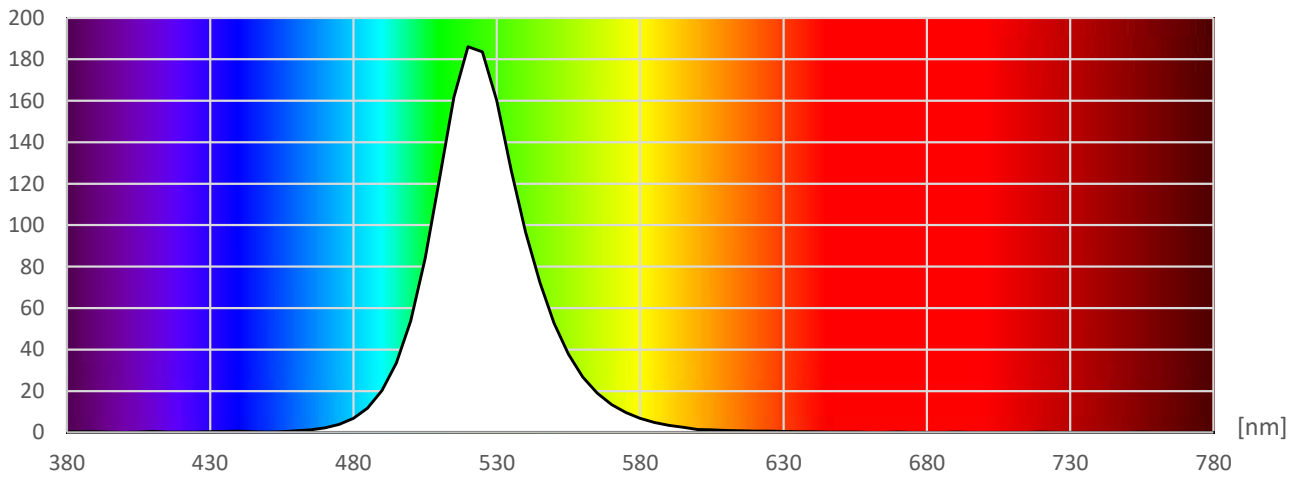
Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 1m / green

Measurement file: 481586_1m_gr.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:46:26

mW/m²/nm



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

Burgebrach, 23.03.2021

Sebastian Laske

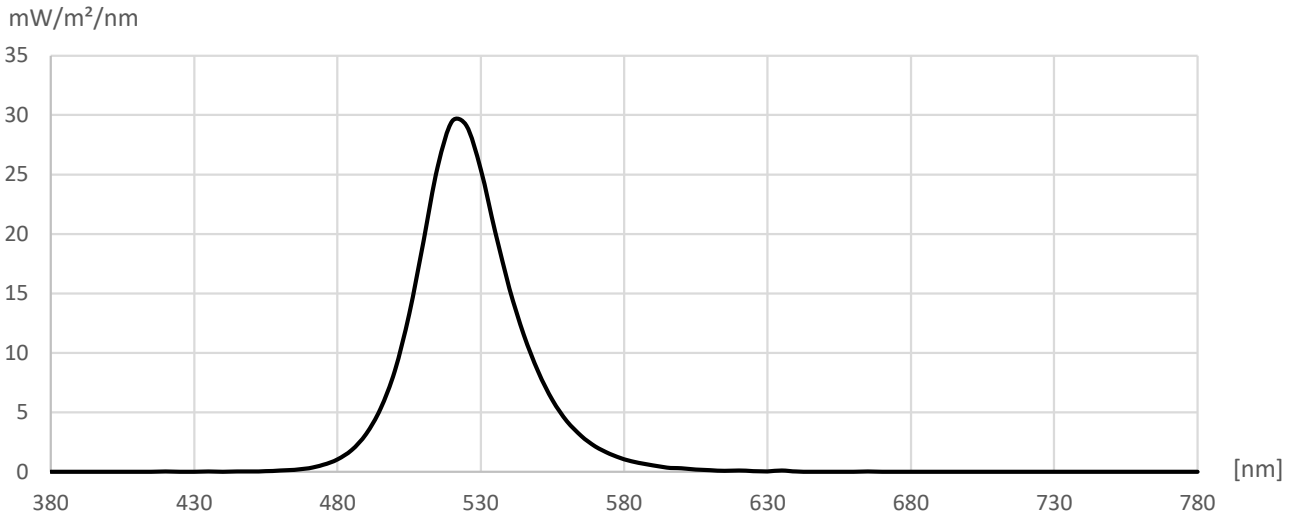
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 3m / green

Measurement file: 481586_3m_gr.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:46:36



R1 = -36,1	Ra = -23,7	Illuminance	596,7 lx	CIE1931
R2 = -7,3	Re = -54,5	Ee	1,198 W/m ²	x = 0,1740
R3 = -18,1	GAI = 0,6	LER	498,1 lm/W	y = 0,7250
R4 = -64,5				
R5 = -10,3		correlated color temperature (CCT)	7753 K	CIE1976
R6 = -14,1		Duv	0,1567	u' = 0,0613
R7 = -5,8		Saturation	79,1 %	v' = 0,5748
R8 = -33,4				
R9 = #####				CIE1960
R10 = #####		Dominant wavelength	525 nm	u = 0,0613
R11 = -94,0		Peak wavelength	522 nm	v = 0,3832
R12 = -29,1				
R13 = -41,0		Flicker frequency	% < 1.0 Hz	TM30
R14 = 41,2		Percent Flicker	< 1.0 %	Rf = 0,7
R15 = -40,0		Flicker index	% < 1.0	Rg = 8,2

[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	0,00	440	0,00	500	8,50	560	4,25	620	0,10	680	0,00	740	0,00
385	0,00	445	0,02	505	13,28	565	3,02	625	0,05	685	0,00	745	0,00
390	0,00	450	0,03	510	19,42	570	2,13	630	0,03	690	0,00	750	0,00
395	0,00	455	0,04	515	25,66	575	1,51	635	0,11	695	0,00	755	0,00
400	0,00	460	0,11	520	29,48	580	1,05	640	0,01	700	0,00	760	0,00
405	0,00	465	0,17	525	29,10	585	0,75	645	0,01	705	0,00	765	0,00
410	0,00	470	0,29	530	25,40	590	0,54	650	0,00	710	0,00	770	0,00
415	0,00	475	0,58	535	20,16	595	0,35	655	0,00	715	0,00	775	0,00
420	0,01	480	1,05	540	15,43	600	0,28	660	0,00	720	0,00	780	0,00
425	0,00	485	1,83	545	11,54	605	0,19	665	0,01	725	0,00		
430	0,00	490	3,17	550	8,42	610	0,13	670	0,00	730	0,00		
435	0,01	495	5,28	555	6,01	615	0,08	675	0,00	735	0,00		

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

Sebastian Laske

Burgebrach, 24.03.2021

First, last name of inspector

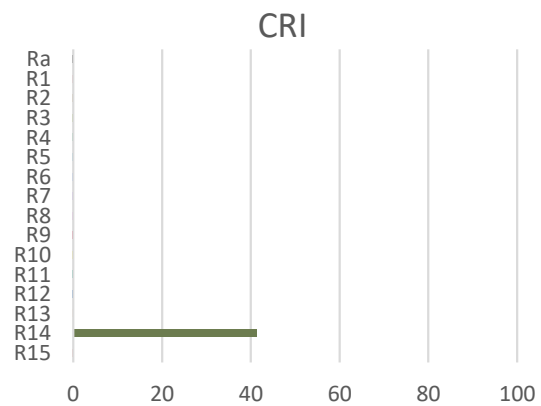
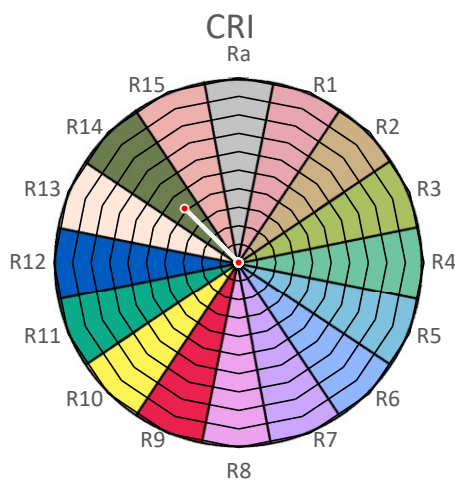
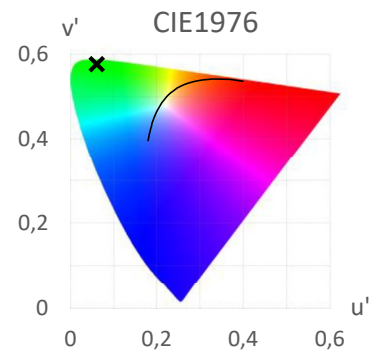
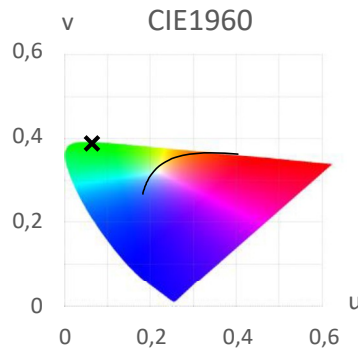
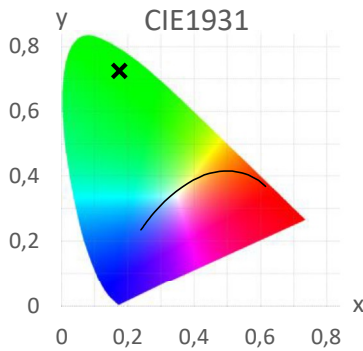
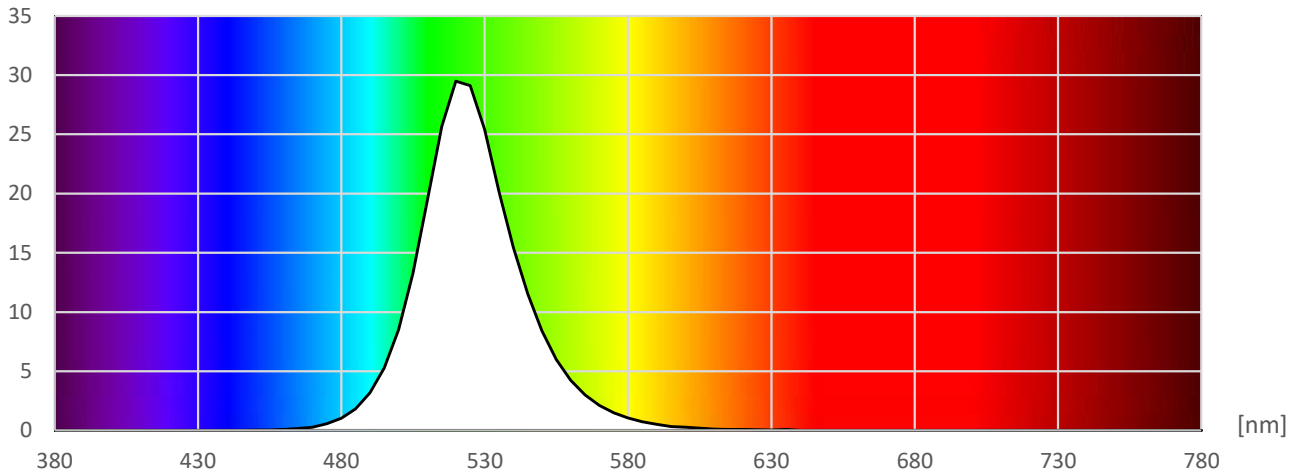
Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 3m / green

Measurement file: 481586_3m_gr.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:46:36

mW/m²/nm



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

Burgebrach, 23.03.2021

Sebastian Laske

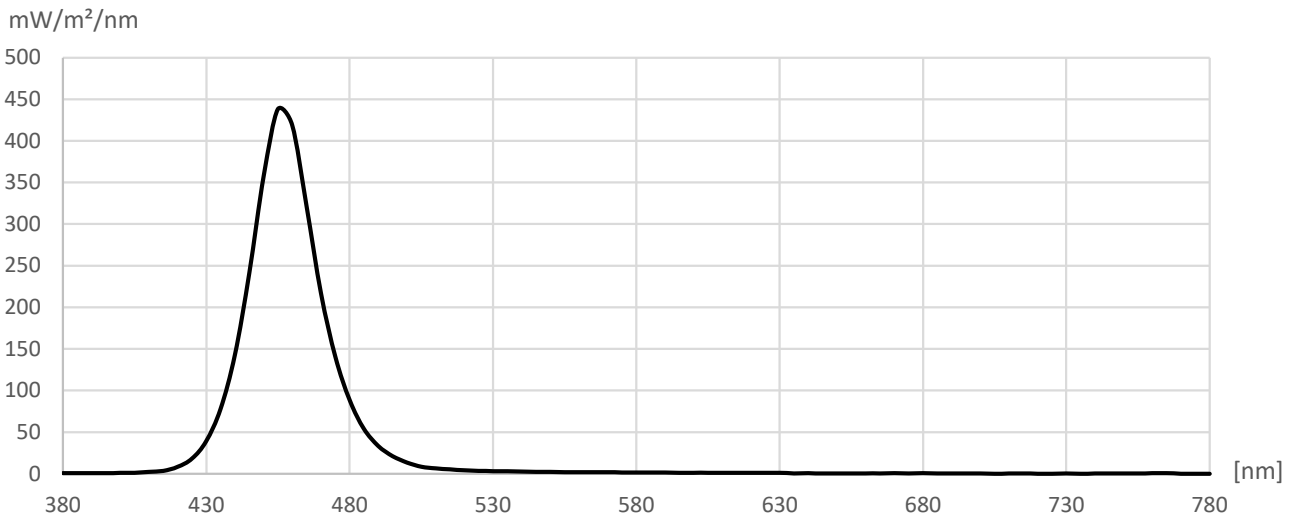
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 1m / blue

Measurement file: 481586_1m_b.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:46:47



R1 = -	Ra = -	Illuminance	736 lx	CIE1931
R2 = -	Re = -	Ee	13,569 W/m ²	x = 0,1480
R3 = -	GAI = -	LER	54,2 lm/W	y = 0,0430
R4 = -				
R5 = -		correlated color temperature (CCT)	> 50000 K	CIE1976
R6 = -		Duv	-	u' = 0,1838
R7 = -				v' = 0,1203
R8 = -		Saturation	96,6 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	453 nm	u = 0,1838
R11 = -		Peak wavelength	456 nm	v = 0,0802
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	0,57	440	142,97	500	13,50	560	1,95	620	1,18	680	0,52	740	0,15
385	0,55	445	241,31	505	8,51	565	1,78	625	1,03	685	0,31	745	0,25
390	0,56	450	358,07	510	6,42	570	1,70	630	1,07	690	0,32	750	0,25
395	0,62	455	438,15	515	5,14	575	1,65	635	0,51	695	0,27	755	0,26
400	0,90	460	418,65	520	4,08	580	1,54	640	0,53	700	0,21	760	0,53
405	1,21	465	321,31	525	3,51	585	1,56	645	0,36	705	0,06	765	0,80
410	2,08	470	216,76	530	3,18	590	1,47	650	0,40	710	0,14	770	0,00
415	3,57	475	140,35	535	2,84	595	0,95	655	0,14	715	0,37	775	0,03
420	8,30	480	88,08	540	2,81	600	1,25	660	0,48	720	0,12	780	0,06
425	18,20	485	54,07	545	2,16	605	1,25	665	0,35	725	0,00		
430	39,14	490	33,48	550	2,35	610	1,23	670	0,62	730	0,19		
435	77,97	495	21,12	555	1,92	615	1,12	675	0,33	735	0,02		

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

Sebastian Laske

Burgebrach, 24.03.2021

First, last name of inspector

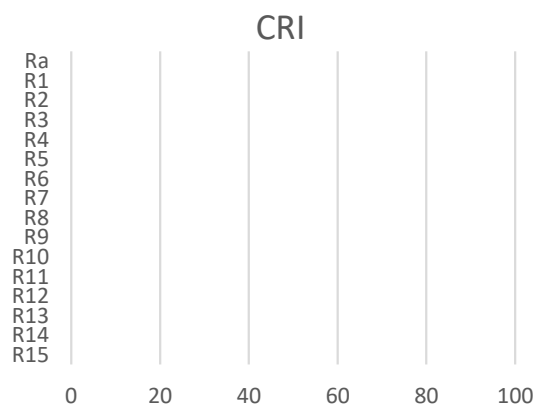
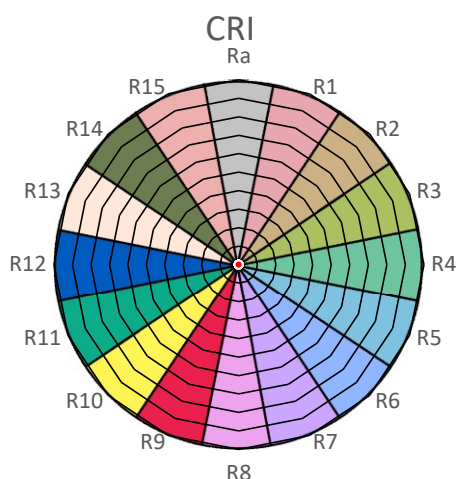
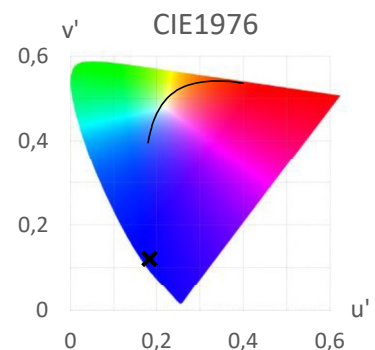
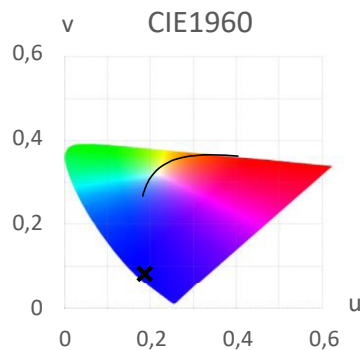
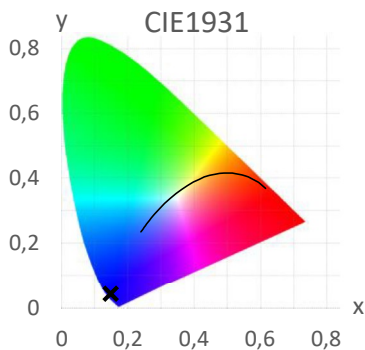
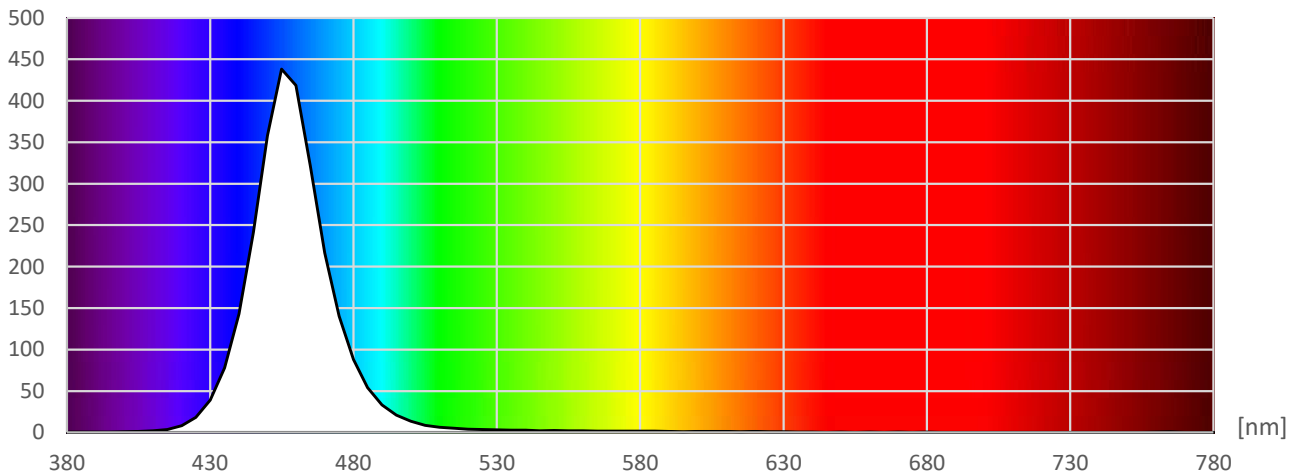
Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 1m / blue

Measurement file: 481586_1m_b.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:46:47

mW/m²/nm



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

Sebastian Laske

Burgebrach, 23.03.2021

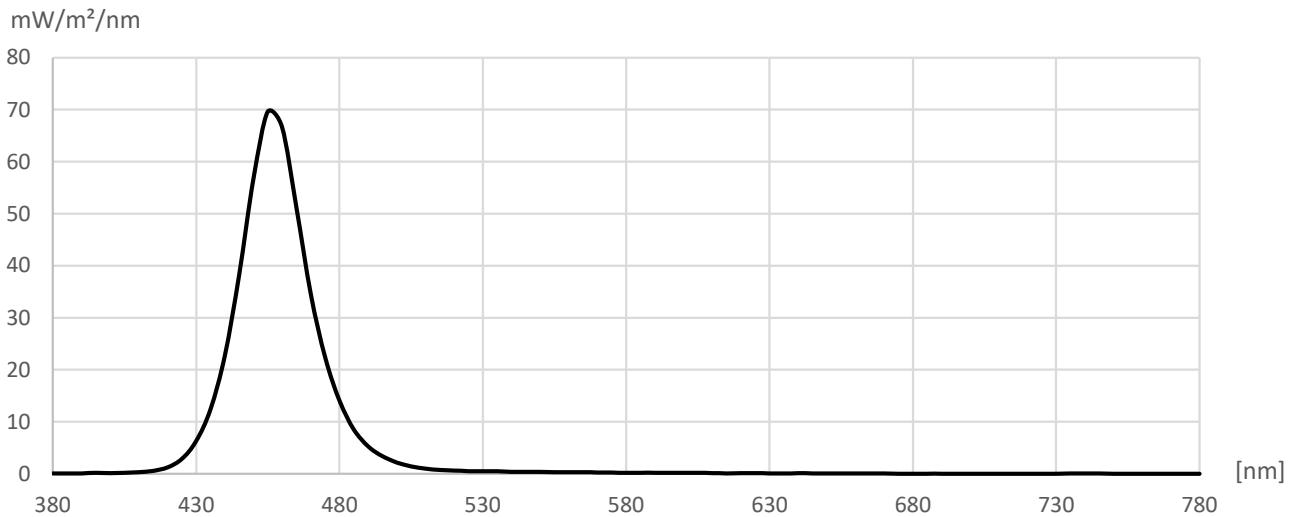
First, last name of inspector

Measurement protocol



Test object: Ignition
2bright Pint FC150 IP
481586 / 3m / blue

Measurement file: 481586_3m_b.CSV
Date of measurement: 23.03.2021
Time of measurement: 16:46:55



R1 = -	Ra = -	Illuminance	115,28 lx	CIE1931
R2 = -	Re = -	Ee	2,147 W/m ²	x = 0,1474
R3 = -	GAI = -	LER	53,7 lm/W	y = 0,0425
R4 = -				
R5 = -		correlated color temperature (CCT)	> 50000 K	CIE1976
R6 = -		Duv	-	u' = 0,1834
R7 = -				v' = 0,1190
R8 = -		Saturation	96,9 %	
R9 = -				CIE1960
R10 = -		Dominant wavelength	453 nm	u = 0,1834
R11 = -		Peak wavelength	456 nm	v = 0,0793
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	0,04	440	22,66	500	2,15	560	0,30	620	0,11	680	0,00	740	0,04
385	0,03	445	38,26	505	1,43	565	0,29	625	0,09	685	0,01	745	0,04
390	0,07	450	56,87	510	0,99	570	0,26	630	0,07	690	0,02	750	0,00
395	0,16	455	69,59	515	0,75	575	0,21	635	0,03	695	0,00	755	0,00
400	0,12	460	66,66	520	0,63	580	0,20	640	0,08	700	0,00	760	0,00
405	0,20	465	51,19	525	0,51	585	0,20	645	0,08	705	0,00	765	0,00
410	0,27	470	34,49	530	0,49	590	0,20	650	0,05	710	0,02	770	0,00
415	0,57	475	22,33	535	0,45	595	0,18	655	0,05	715	0,00	775	0,00
420	1,23	480	14,00	540	0,38	600	0,18	660	0,05	720	0,01	780	0,00
425	2,87	485	8,55	545	0,36	605	0,17	665	0,03	725	0,00		
430	6,22	490	5,27	550	0,33	610	0,13	670	0,03	730	0,01		
435	12,35	495	3,37	555	0,32	615	0,08	675	0,01	735	0,03		

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

Sebastian Laske

Burgebrach, 24.03.2021

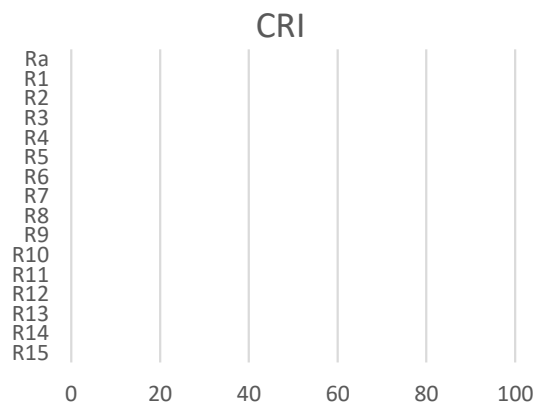
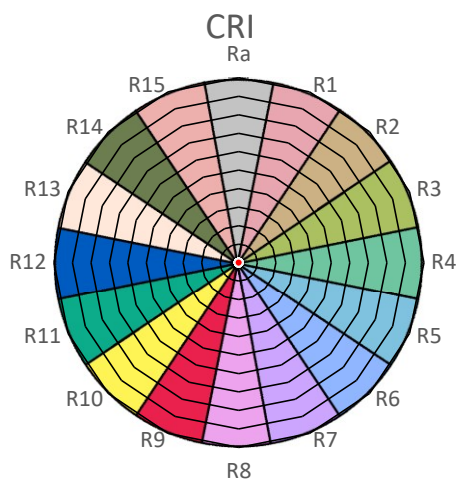
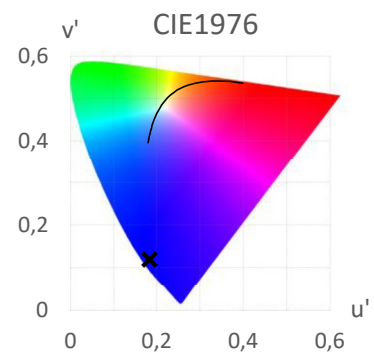
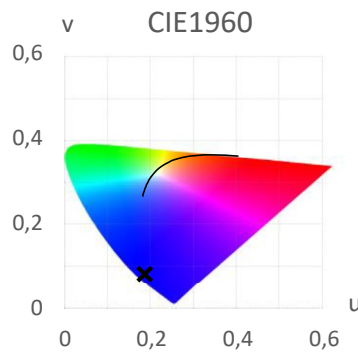
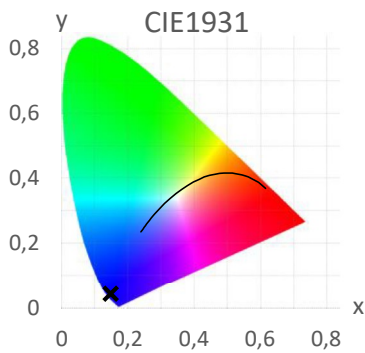
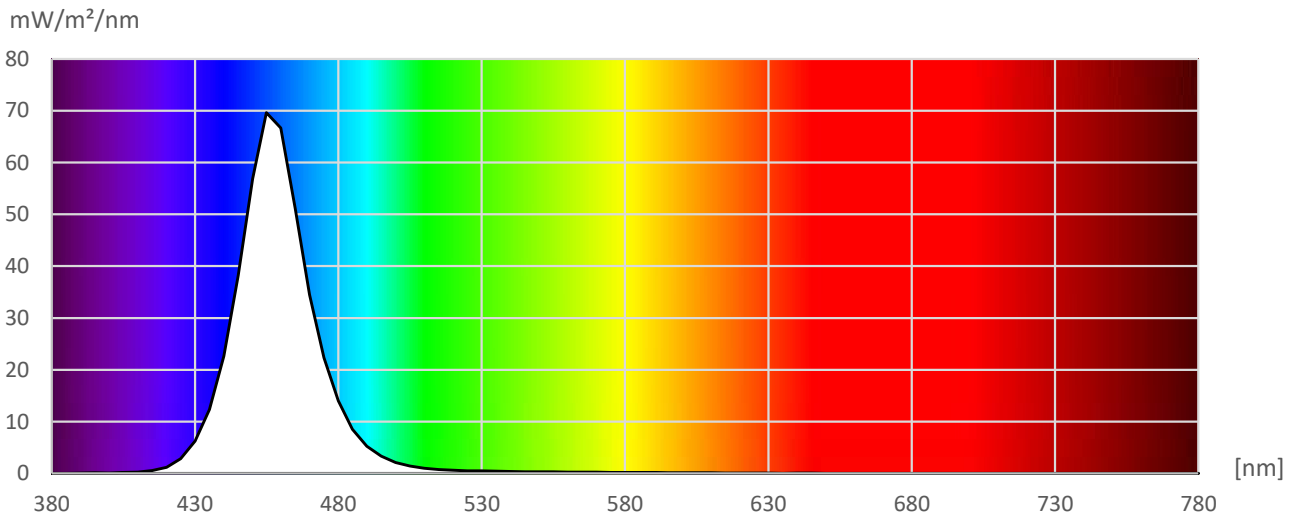
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 3m / blue

Measurement file: 481586_3m_b.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:46:55



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

Burgebrach, 23.03.2021

Sebastian Laske

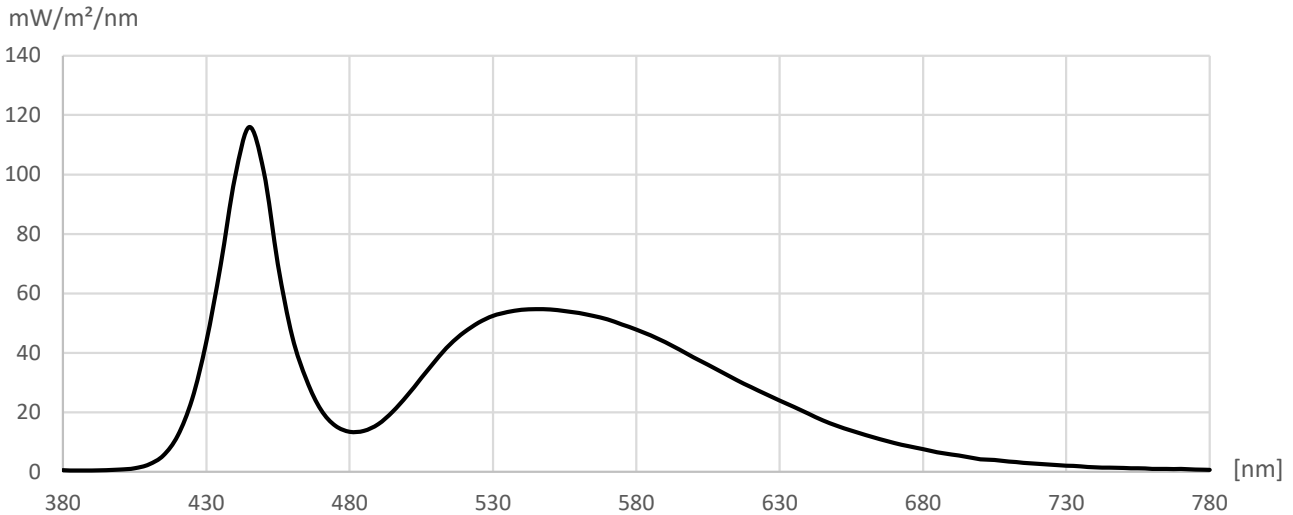
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 1m / white

Measurement file: 481586_1m_cw.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:47:10



R1 = 70,2	Ra = 71,5	Illuminance	3217,27 lx	CIE1931
R2 = 73,3	Re = 61,3	Ee	10,356 W/m ²	x = 0,3003
R3 = 74,3	GAI = 88,7	LER	310,7 lm/W	y = 0,3179
R4 = 73,5				
R5 = 72,3		correlated color temperature (CCT)	7368 K	CIE1976
R6 = 65,6		Duv	0,004	u' = 0,1933
R7 = 79,1				v' = 0,4604
R8 = 63,3		Saturation	12,5 %	
R9 = -25,7				CIE1960
R10 = 35,9		Dominant wavelength	482 nm	u = 0,1933
R11 = 72,8		Peak wavelength	445 nm	v = 0,3069
R12 = 45,0				
R13 = 69,7		Flicker frequency	% < 1.0 Hz	TM30
R14 = 85,6		Percent Flicker	< 1.0 %	Rf = 68,7
R15 = 64,5		Flicker index	% < 1.0	Rg = 95,1

[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	[nm]	mW/m ² /nm
380	0,47	440	99,02	500	25,52	560	53,38	620	28,46	680	7,62	740	1,43		
385	0,44	445	115,95	505	31,56	565	52,46	625	26,17	685	6,58	745	1,39		
390	0,43	450	101,04	510	37,45	570	51,24	630	23,96	690	5,80	750	1,22		
395	0,55	455	69,88	515	42,80	575	49,56	635	21,82	695	5,08	755	1,15		
400	0,75	460	45,53	520	46,97	580	47,81	640	19,51	700	4,21	760	0,99		
405	1,17	465	30,81	525	50,15	585	45,84	645	17,30	705	3,91	765	0,90		
410	2,47	470	20,80	530	52,45	590	43,59	650	15,44	710	3,44	770	0,91		
415	5,51	475	15,47	535	53,68	595	41,13	655	13,86	715	3,04	775	0,75		
420	12,14	480	13,45	540	54,46	600	38,51	660	12,35	720	2,71	780	0,58		
425	24,43	485	13,69	545	54,71	605	36,00	665	10,92	725	2,38				
430	43,52	490	16,03	550	54,64	610	33,45	670	9,67	730	2,07				
435	69,33	495	20,18	555	54,06	615	30,83	675	8,55	735	1,83				

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

Sebastian Laske

Burgebrach, 24.03.2021

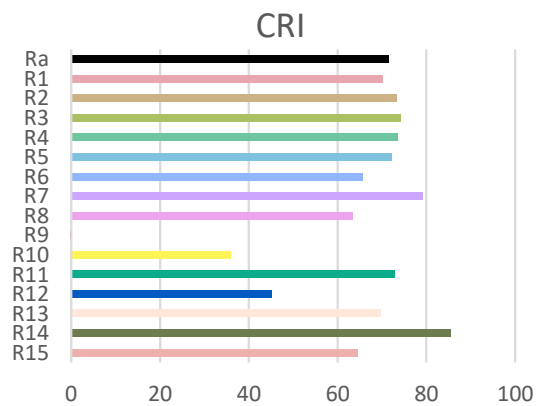
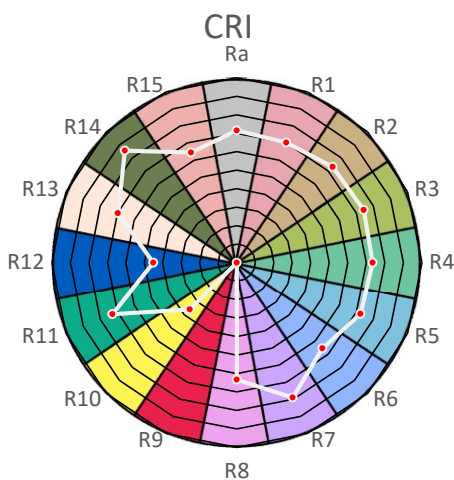
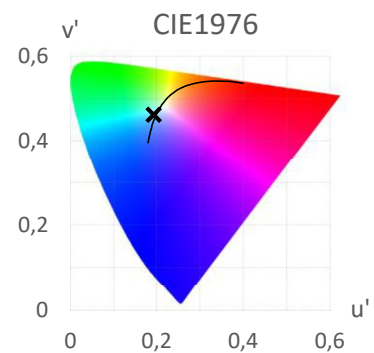
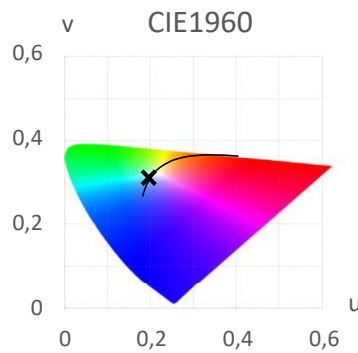
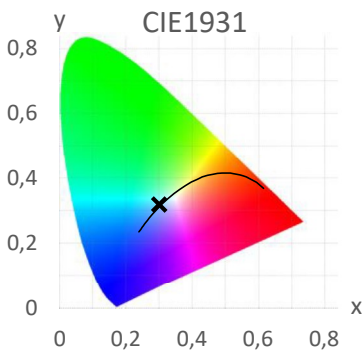
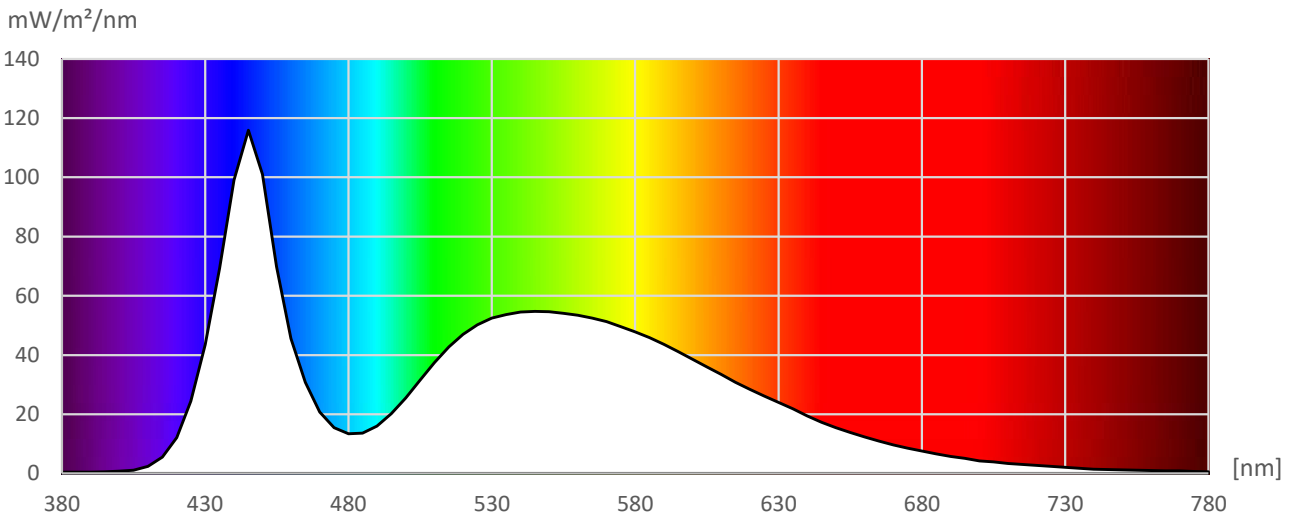
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 1m / white

Measurement file: 481586_1m_cw.CS
 Date of measurement: 23.03.2021
 Time of measurement: 16:47:10



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

Burgebrach, 23.03.2021

Sebastian Laske

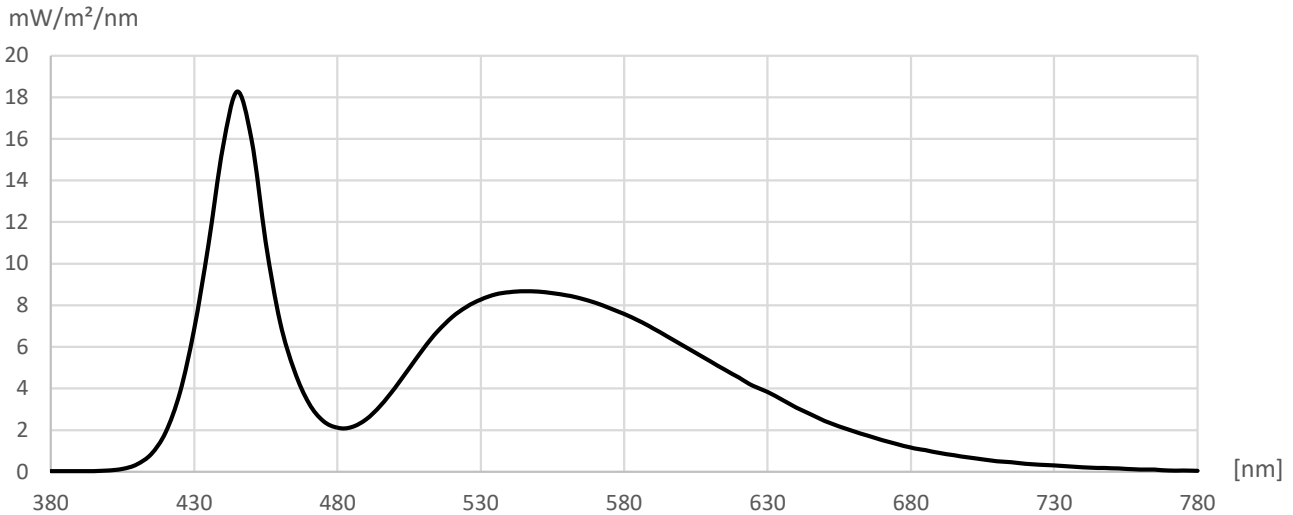
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 3m / white

Measurement file: 481586_3m_cw.CSV
 Date of measurement: 23.03.2021
 Time of measurement: 16:47:20



R1 = 70,1	Ra = 71,4	Illuminance	509,74 lx	CIE1931
R2 = 73,3	Re = 61,2	Ee	1,632 W/m ²	x = 0,3008
R3 = 74,3	GAI = 88,5	LER	312,4 lm/W	y = 0,3187
R4 = 73,4				
R5 = 72,2		correlated color temperature (CCT)	7321 K	CIE1976
R6 = 65,5		Duv	0,0041	u' = 0,1934
R7 = 79,1		Saturation	12,3 %	v' = 0,4609
R8 = 63,2				
R9 = -26,1				CIE1960
R10 = 35,8		Dominant wavelength	483 nm	u = 0,1934
R11 = 72,6		Peak wavelength	445 nm	v = 0,3073
R12 = 44,8				
R13 = 69,6		Flicker frequency	% < 1.0 Hz	TM30
R14 = 85,6		Percent Flicker	< 1.0 %	Rf = 68,7
R15 = 64,3		Flicker index	% < 1.0	Rg = 95,1

[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	0,03	440	15,57	500	4,03	560	8,48	620	4,52	680	1,16	740	0,21
385	0,03	445	18,28	505	4,98	565	8,32	625	4,13	685	1,03	745	0,18
390	0,03	450	15,95	510	5,92	570	8,12	630	3,84	690	0,90	750	0,17
395	0,03	455	11,05	515	6,75	575	7,87	635	3,47	695	0,79	755	0,14
400	0,06	460	7,20	520	7,43	580	7,58	640	3,09	700	0,69	760	0,11
405	0,13	465	4,85	525	7,93	585	7,27	645	2,76	705	0,59	765	0,10
410	0,35	470	3,29	530	8,28	590	6,90	650	2,44	710	0,51	770	0,06
415	0,84	475	2,44	535	8,52	595	6,51	655	2,18	715	0,46	775	0,06
420	1,89	480	2,11	540	8,64	600	6,11	660	1,95	720	0,38	780	0,04
425	3,81	485	2,15	545	8,68	605	5,71	665	1,73	725	0,34		
430	6,82	490	2,52	550	8,66	610	5,31	670	1,52	730	0,30		
435	10,90	495	3,17	555	8,58	615	4,91	675	1,34	735	0,25		

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

Sebastian Laske

Burgebrach, 24.03.2021

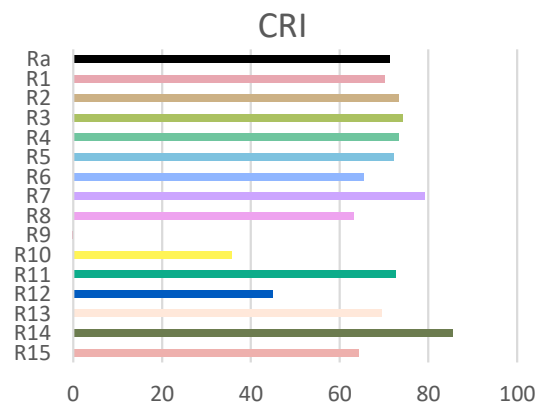
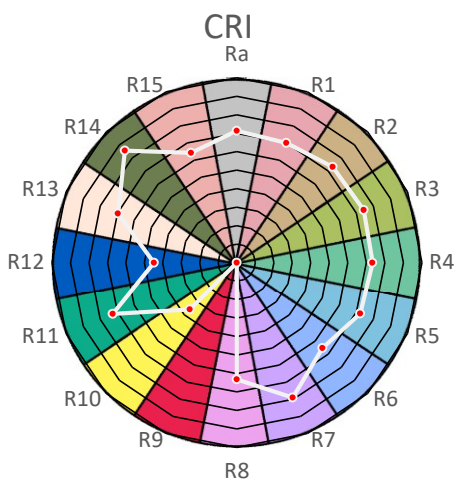
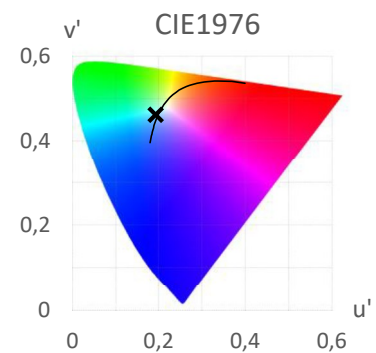
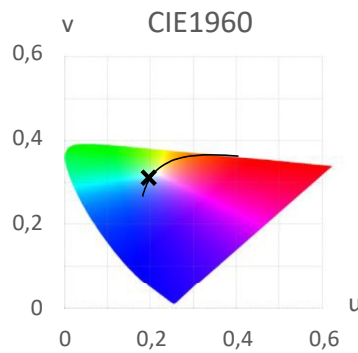
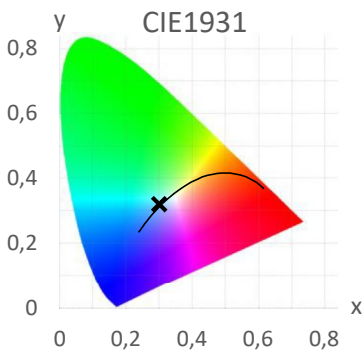
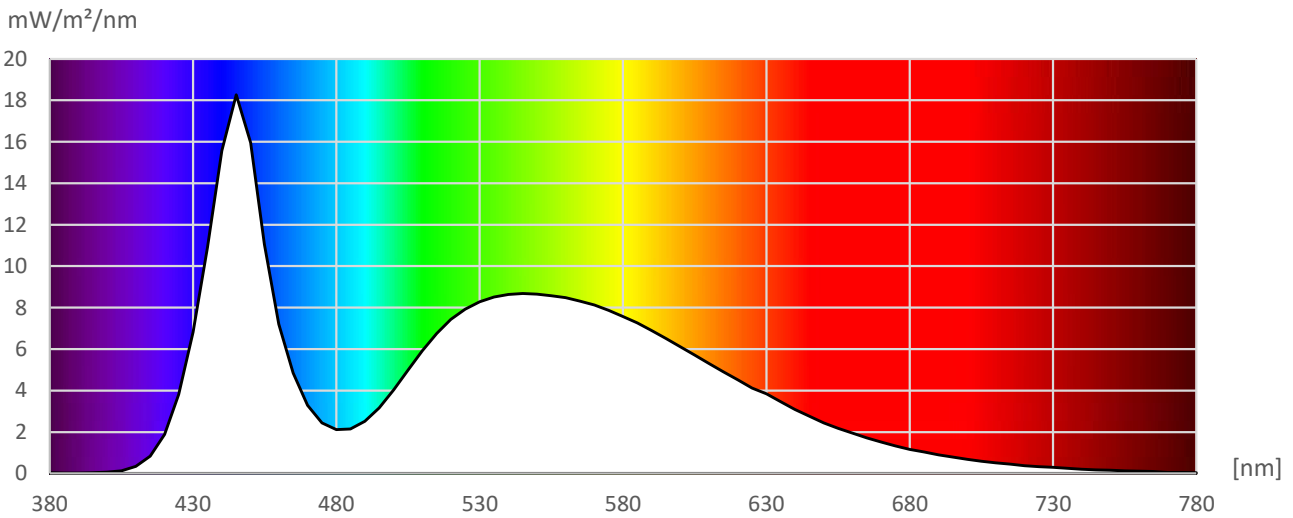
First, last name of inspector

Measurement protocol



Test object: Ignition
 2bright Pint FC150 IP
 481586 / 3m / white

Measurement file: 481586_3m_cw.CS
 Date of measurement: 23.03.2021
 Time of measurement: 16:47:20



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

Burgebrach, 23.03.2021

Sebastian Laske

First, last name of inspector