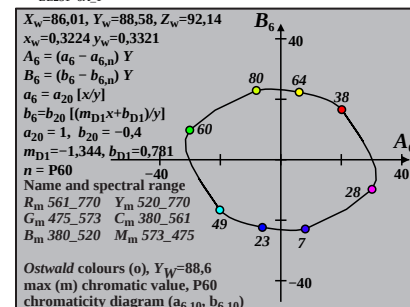
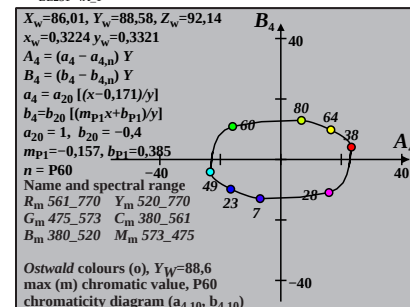
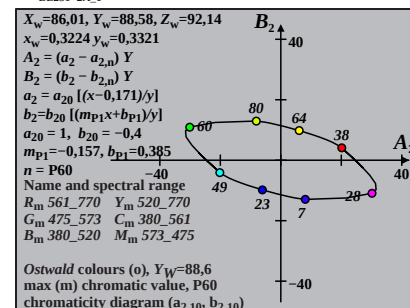
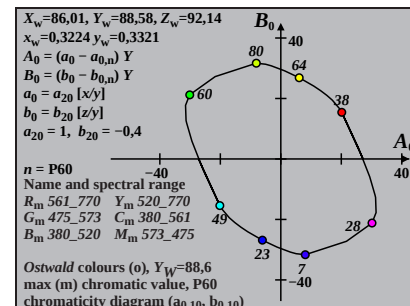
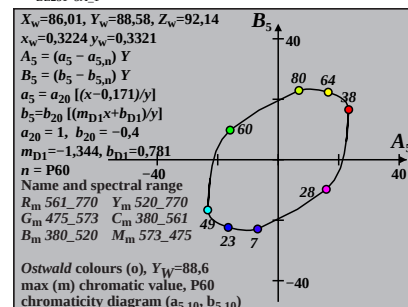
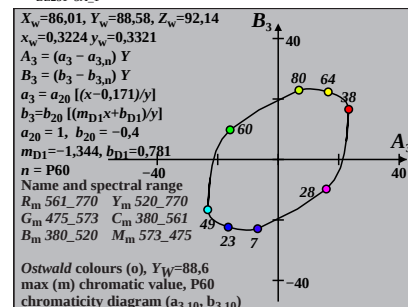
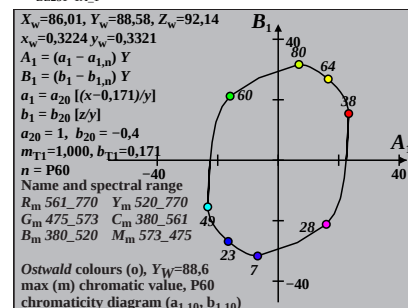
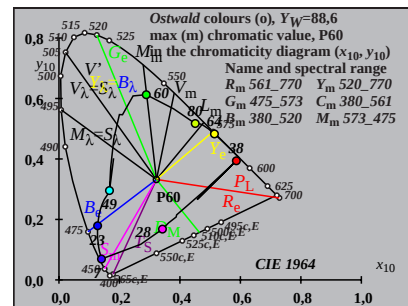


Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P60, $Y_{w,10}=88,6$, $Y_m=520,770$

i_1, λ_1	i_2, λ_2	Y_{10}	A_{10}	B_{10}	$C_{AB,10}$	a_{10}	b_{10}	$h_{AB,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	31 557	49.67	-20.17	-15.41	25.38	0.5647	-0.7263	217.3	15 477	37 587	Cm
7 435	31 559	50.1	-25.65	-3.68	25.91	0.459	-0.4895	188.1	16 483	-1 483c	
9 450	32 561	50.82	-28.36	2.96	28.51	0.4129	-0.3577	174.0	17 489	-1 489c	
12 460	32 563	51.42	-31.13	11.86	33.31	0.3655	-0.1852	159.1	21 505	-1 505c	
13 465	33 566	52.77	-31.58	14.73	34.84	0.3725	-0.1368	154.9	22 514	-1 514c	
14 470	34 571	55.44	-31.5	17.73	36.15	0.4027	-0.0962	150.6	24 524	-1 524c	
14 475	36 580	61.28	-30.64	20.16	36.67	0.4709	-0.0871	146.6	26 531	-1 531c	Gm
15 480	41 605	73.32	-22.54	26.61	34.88	0.6635	-0.053	130.2	30 550	-1 550c	
16 485	-1 484c	82.24	-9.22	31.4	32.73	0.8587	-0.0341	106.3	32 561	10 453	
18 490	-1 490c	79.48	-6.7	31.63	32.33	0.8865	-0.0181	101.9	32 563	11 458	max
19 495	-1 495c	77.77	-5.06	31.33	31.73	0.9058	-0.0131	99.1	32 564	12 461	
20 500	-1 500c	75.78	-3.17	30.81	30.97	0.9291	-0.0095	95.8	33 565	12 463	
21 510	-1 509c	73.51	-1.07	30.08	30.1	0.9563	-0.0068	92.0	33 566	12 464	
24 520	-1 520c	64.92	6.09	26.85	27.54	1.0648	-0.0023	77.2	34 571	13 469	Ym
26 530	-1 530c	58.04	10.91	24.09	26.44	1.1589	-0.0009	65.6	34 574	14 472	
28 540	-1 540c	50.58	15.21	21.03	25.96	1.2718	-0.0002	54.1	35 578	14 474	
29 545	-1 545c	46.75	17.03	19.45	25.85	1.3351	-0.0001	48.7	36 581	15 475	
30 550	-1 550c	42.92	18.54	17.85	25.74	1.4029	0.0	43.9	36 583	15 476	
31 555	-1 555c	39.1	19.72	16.27	25.57	1.4754	0.0	39.5	37 586	15 476	
31 560	8 442	40.12	26.43	1.49	26.47	1.6295	-0.3787	3.2	-1 485c	17 485	
31 557	1 405	50.32	20.17	15.41	25.38	1.3718	-0.1098	37.3	37 587	15 477	Rm
31 559	7 435	49.89	25.65	3.68	25.91	1.4851	-0.3422	8.1	-1 483c	16 483	
32 561	9 450	49.17	28.36	-2.96	28.51	1.5477	-0.4763	354.0	-1 489c	17 489	
32 563	12 460	48.57	31.13	-11.86	33.31	1.6119	-0.6604	339.1	-1 505c	21 505	
33 566	13 465	47.22	31.58	-14.73	34.84	1.6396	-0.728	334.9	-1 514c	22 514	
34 571	14 470	44.55	31.5	-17.73	36.15	1.6781	-0.814	330.6	-1 524c	24 524	
36 580	14 475	38.71	30.64	-20.16	36.67	1.7624	-0.9368	326.6	-1 531c	26 531	Mm
41 605	15 480	26.67	22.54	-26.61	34.88	1.816	-1.4139	310.2	-1 550c	30 550	
-1 484c	16 485	17.75	9.22	-31.4	32.73	1.4905	-2.1848	286.3	10 453	32 561	
-1 490c	18 490	20.51	6.7	-31.63	32.33	1.298	-1.9582	281.9	11 458	32 563	min
-1 495c	19 495	22.22	5.06	-31.33	31.73	1.1986	-1.8257	279.1	12 461	32 564	
-1 500c	20 500	24.21	3.17	-30.8	30.97	1.1019	-1.6885	275.8	12 463	33 565	
-1 509c	21 510	26.48	1.07	-30.08	30.1	1.0113	-1.5518	272.0	12 464	33 566	
-1 520c	24 520	35.07	-6.09	-26.85	27.54	0.797	-1.1819	257.2	13 469	34 571	Bm
-1 530c	26 530	41.95	-10.91	-24.09	26.44	0.7108	-0.9904	245.6	14 472	34 574	
-1 540c	28 540	49.41	-15.21	-21.03	25.96	0.6629	-0.8416	234.1	14 474	35 578	
-1 545c	29 545	53.24	-17.03	-19.45	25.85	0.651	-0.7814	228.7	15 475	36 581	
-1 550c	30 550	57.07	-18.54	-17.85	25.74	0.6459	-0.729	223.9	15 476	36 583	
-1 555c	31 555	60.89	-19.72	-16.27	25.57	0.6469	-0.6832	219.5	15 476	37 586	
8 442	31 560	59.87	-26.43	-1.49	26.47	0.5294	-0.441	183.2	17 485	-1 485c	
380	770	88.58	0.0	0.0	0.01	0.9709	-0.416	0.0			

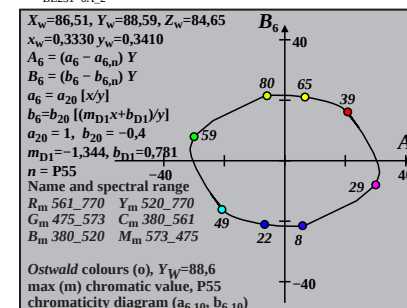
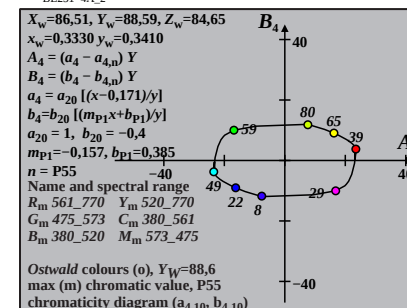
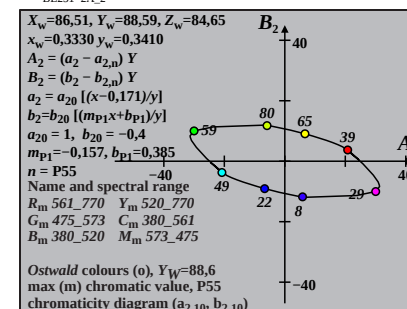
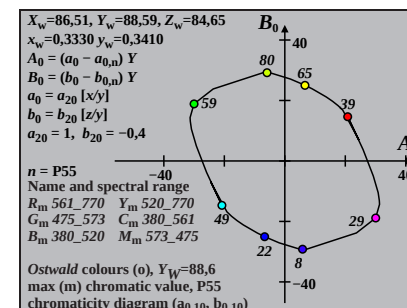
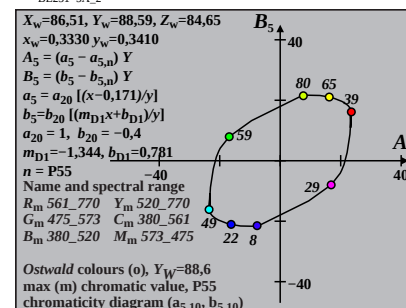
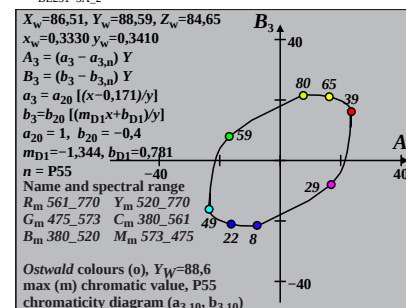
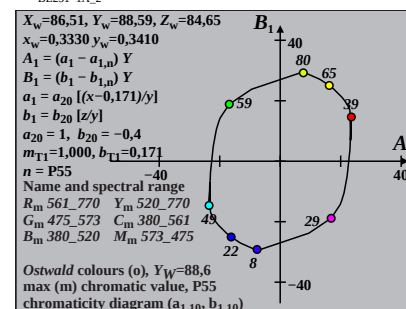
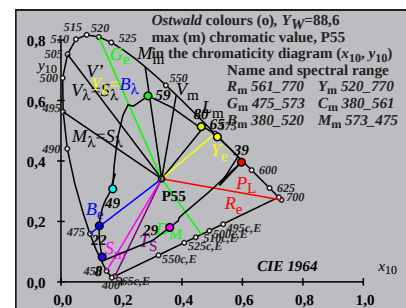
TUB-test chart BE23; CIE (x_{10}, y_{10}) and chromatic values ($A_{i,10}, B_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P60; diagram for illuminant P60, $Y_{w,10}=100$



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P55, $Y_{w,10}=88,6$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	Y_{10}	A_{10}	B_{10}	$C_{AB,10}$	a_{10}	b_{10}	$h_{AB,10}$	i_d, λ_d	i_c, λ_c	Code
0 405	31 558	49.47	-20.79	-14.65	25.44	0.5561	-0.6784	215.1	15 477	37 587	Cm
7 435	32 560	49.85	-25.87	-3.76	26.14	0.4574	-0.4578	188.2	16 484	-1 484c	
10 450	32 561	50.14	-29.26	4.99	29.68	0.3929	-0.2825	170.3	18 493	-1 493c	
12 460	32 564	51.05	-30.87	10.49	32.6	0.3718	-0.1766	161.2	21 505	-1 505c	
12 465	33 566	52.91	-31.03	11.2	32.99	0.3901	-0.1704	160.1	21 507	-1 507c	
14 470	34 571	54.7	-31.19	15.81	34.97	0.4062	-0.0931	153.1	24 523	-1 523c	
15 475	35 579	59.09	-30.04	18.85	35.47	0.4681	-0.063	147.8	26 533	-1 533c	Gm
16 480	39 599	69.36	-23.68	23.8	33.58	0.635	-0.0389	134.8	29 548	-1 548c	
16 485	-1 484c	82.68	-8.27	28.89	30.05	0.8765	-0.0327	105.9	32 562	10 454	
17 490	-1 489c	81.46	-7.19	29.18	30.06	0.8882	-0.0239	103.8	32 563	11 456	max
19 495	-1 495c	78.4	-4.26	28.96	29.28	0.9222	-0.0127	98.3	33 565	12 461	
20 500	-1 500c	76.48	-2.42	28.52	28.63	0.9448	-0.0092	94.8	33 566	12 463	
22 510	-1 510c	71.78	1.85	27.09	27.15	1.0024	-0.0048	86.0	33 568	13 467	
24 520	-1 520c	65.89	6.67	25.03	25.9	1.0777	-0.0023	75.0	34 571	14 470	Ym
25 530	-1 529c	62.6	9.09	23.83	25.5	1.1218	-0.0015	69.1	34 573	14 471	
27 540	-1 539c	55.45	13.7	21.16	25.21	1.2236	-0.0005	57.0	35 577	14 474	
28 545	-1 544c	51.69	15.77	19.74	25.27	1.2817	-0.0002	51.3	35 579	15 475	
29 550	-1 549c	47.87	17.6	18.29	25.38	1.3442	0.0	46.1	36 581	15 475	
31 555	-1 555c	40.19	20.35	15.36	25.5	1.4829	0.0	37.0	37 586	15 477	
32 560	6 430	36.81	24.51	6.9	25.47	1.6425	-0.1946	15.7	45 629	16 482	
31 558	0 405	50.52	20.79	14.65	25.44	1.3881	-0.0921	35.1	37 587	15 477	Rm
32 560	7 435	50.14	25.87	3.76	26.14	1.4925	-0.307	8.2	-1 484c	16 484	
32 561	10 450	49.85	29.26	-4.99	29.68	1.5636	-0.4824	350.3	-1 493c	18 493	
32 564	12 460	48.94	30.87	-10.49	32.6	1.6074	-0.5966	341.2	-1 505c	21 505	
33 566	12 465	47.08	31.03	-11.2	32.99	1.6355	-0.6201	340.1	-1 507c	21 507	
34 571	14 470	45.29	31.19	-15.81	34.97	1.6653	-0.7313	333.1	-1 523c	24 523	
35 579	15 475	40.9	30.04	-18.85	35.47	1.7109	-0.8432	327.8	-1 533c	26 533	Mm
39 599	16 480	30.63	23.68	-23.8	33.58	1.7498	-1.1593	314.8	-1 548c	29 548	
-1 484c	16 485	17.31	8.27	-28.89	30.05	1.4542	-2.0511	285.9	10 454	32 562	
-1 489c	17 490	18.53	7.19	-29.18	30.05	1.3645	-1.9569	283.8	11 456	32 563	min
-1 495c	19 495	21.59	4.26	-28.96	29.28	1.1738	-1.7237	278.3	12 461	33 565	
-1 500c	20 500	23.51	2.42	-28.52	28.63	1.0797	-1.5956	274.8	12 463	33 566	
-1 510c	22 510	28.21	-1.85	-27.09	27.15	0.9107	-1.3422	266.0	13 467	33 568	
-1 520c	24 520	34.1	-6.67	-25.03	25.9	0.7809	-1.1162	255.0	14 470	34 571	Bm
-1 529c	25 530	37.39	-9.09	-23.83	25.5	0.7333	-1.0194	249.1	14 471	34 573	
-1 539c	27 540	44.54	-13.7	-21.16	25.21	0.6689	-0.8573	237.0	14 474	35 577	
-1 544c	28 545	48.3	-15.77	-19.74	25.27	0.6499	-0.7909	231.3	15 475	35 579	
-1 549c	29 550	52.12	-17.6	-18.29	25.39	0.6387	-0.7332	226.1	15 475	36 581	
-1 555c	31 555	59.8	-20.35	-15.36	25.5	0.6362	-0.639	217.0	15 477	37 586	
6 430	32 560	63.18	-24.51	-6.9	25.47	0.5885	-0.4914	195.7	16 482	45 629	
380	770	88.59	0.0	0.0	0.01	0.9765	-0.3822	0.0			

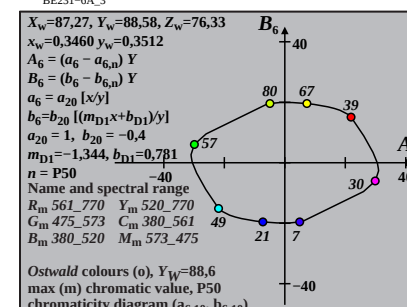
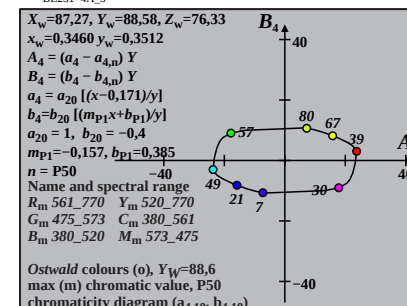
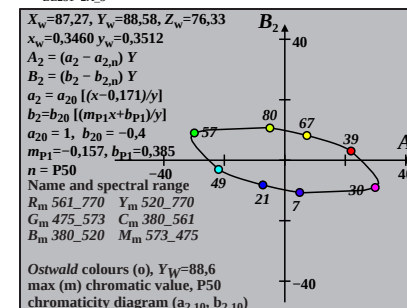
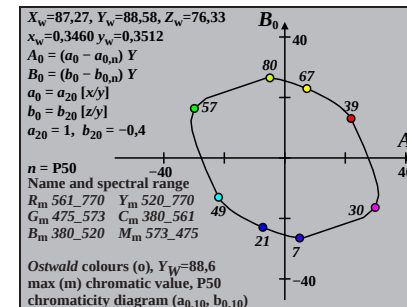
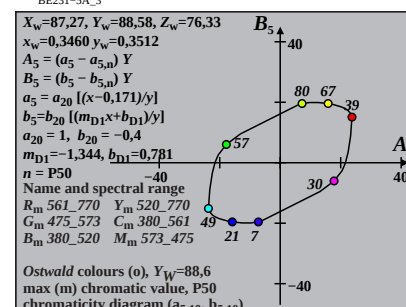
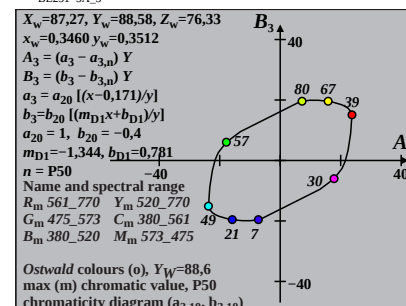
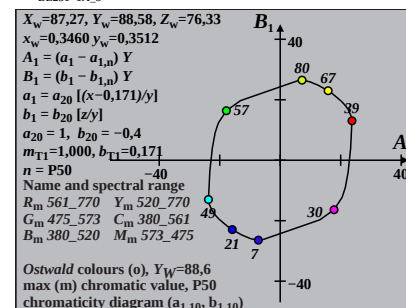
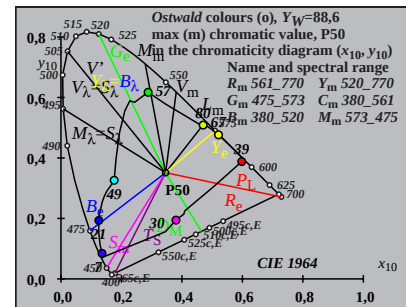
TUB-test chart BE23; CIE (x_{10}, y_{10}) and chromatic values ($A_{i,10}, B_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P55; diagram for illuminant P55, $Y_{w,10}=100$



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P50, $Y_{w,10}=88,6$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	Y_{10}	A_{10}	B_{10}	$C_{AB,10}$	a_{10}	b_{10}	$h_{AB,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	32 560	49.16	-21.9	-13.01	25.47	0.5395	-0.6093	210.7	15 479	37 589	Cm
7 435	32 561	49.51	-26.11	-3.82	26.39	0.4577	-0.4219	188.3	17 485	-1 485c	
9 450	32 562	50.11	-28.29	1.56	28.34	0.4204	-0.3133	176.8	18 490	-1 490c	
12 460	33 565	50.61	-30.62	9.01	31.92	0.38	-0.1664	163.5	21 505	-1 505c	
13 465	33 567	51.69	-30.93	11.37	32.95	0.3867	-0.1246	159.8	22 513	-1 513c	
14 470	34 571	53.85	-30.88	13.75	33.81	0.4116	-0.0892	155.9	24 523	-1 523c	
14 475	35 578	58.55	-30.36	15.37	34.03	0.4665	-0.082	153.1	25 529	-1 529c	Gm
16 480	38 593	66.43	-25.26	20.32	32.42	0.6047	-0.0387	141.1	29 546	-1 546c	
17 485	-1 485c	82.03	-6.19	26.4	27.12	0.9095	-0.0227	103.2	32 564	11 457	
18 490	-1 490c	80.69	-4.92	26.47	26.92	0.9241	-0.0166	100.5	33 565	11 459	max
18 495	-1 494c	80.69	-4.92	26.47	26.92	0.9241	-0.0166	100.5	33 565	11 459	
20 500	-1 500c	77.29	-1.62	25.95	26.0	0.9641	-0.0088	93.5	33 566	12 464	
22 510	-1 510c	72.76	2.54	24.74	24.87	1.02	-0.0046	84.1	33 569	13 467	
24 520	-1 520c	67.03	7.27	22.95	24.08	1.0936	-0.0022	72.4	34 572	14 470	Ym
26 530	-1 530c	60.37	12.02	20.75	23.98	1.1843	-0.0009	59.9	35 575	14 473	
28 540	-1 540c	53.02	16.37	18.26	24.52	1.2938	-0.0002	48.1	35 579	15 475	
29 545	-1 545c	49.21	18.22	16.96	24.89	1.3554	0.0	42.9	36 581	15 476	
30 550	-1 550c	45.37	19.8	15.63	25.23	1.4215	0.0	38.2	36 584	15 477	
31 555	-1 555c	41.51	21.05	14.3	25.45	1.4922	0.0	34.2	37 586	15 478	
32 560	-1 560c	37.67	21.92	12.98	25.48	1.567	0.0	30.6	37 589	15 479	
32 560	1 405	50.83	21.9	13.01	25.47	1.416	-0.0886	30.7	37 589	15 479	Rm
32 561	7 435	50.48	26.11	3.82	26.39	1.5024	-0.2689	8.3	-1 485c	17 485	
32 562	9 450	49.88	28.29	-1.56	28.34	1.5524	-0.3761	356.8	-1 490c	18 490	
33 565	12 460	49.38	30.62	-9.01	31.92	1.6051	-0.5272	343.5	-1 505c	21 505	
33 567	13 465	48.3	30.93	-11.37	32.95	1.6254	-0.5801	339.8	-1 513c	22 513	
34 571	14 470	46.14	30.88	-13.75	33.8	1.6544	-0.6428	335.9	-1 523c	24 523	
35 578	14 475	41.44	30.36	-15.37	34.03	1.7177	-0.7157	333.1	-1 529c	25 529	Mm
38 593	16 480	33.56	25.26	-20.32	32.42	1.7378	-0.95	321.1	-1 546c	29 546	
-1 485c	17 485	17.96	6.19	-26.4	27.12	1.3301	-1.8146	283.2	11 457	32 564	
-1 490c	18 490	19.3	4.92	-26.47	26.92	1.2401	-1.716	280.5	11 459	33 565	min
-1 494c	18 495	19.3	4.92	-26.47	26.92	1.2401	-1.716	280.5	11 459	33 565	
-1 500c	20 500	22.7	1.62	-25.95	26.0	1.0565	-1.488	273.5	12 464	33 566	
-1 510c	22 510	27.23	-2.54	-24.74	24.87	0.8917	-1.2529	264.1	13 467	33 569	
-1 520c	24 520	32.96	-7.27	-22.95	24.08	0.7643	-1.041	252.4	14 470	34 572	Bm
-1 530c	26 530	39.62	-12.02	-20.75	23.98	0.6815	-0.8683	239.9	14 473	35 575	
-1 540c	28 540	46.97	-16.37	-18.26	24.52	0.6365	-0.7334	228.1	15 475	35 579	
-1 545c	29 545	50.78	-18.22	-16.96	24.89	0.6261	-0.6786	222.9	15 476	36 581	
-1 550c	30 550	54.62	-19.8	-15.63	25.23	0.6225	-0.6309	218.2	15 477	36 584	
-1 555c	31 555	58.48	-21.05	-14.3	25.45	0.6251	-0.5893	214.2	15 478	37 586	
-1 560c	32 560	62.32	-21.92	-12.98	25.48	0.6333	-0.553	210.6	15 479	37 589	
380	770	88.58	0.0	0.0	0.01	0.9851	-0.3446	0.0			

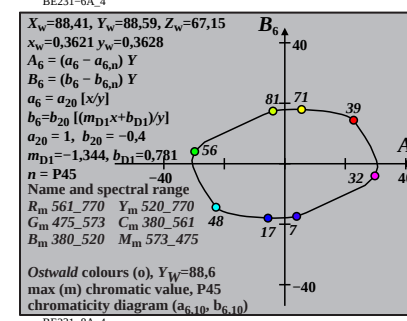
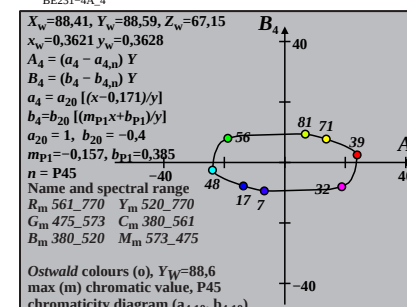
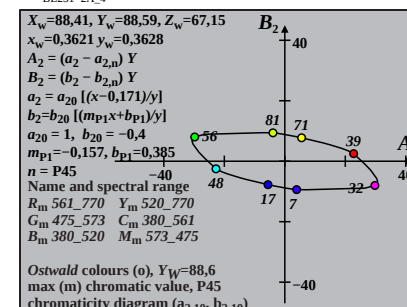
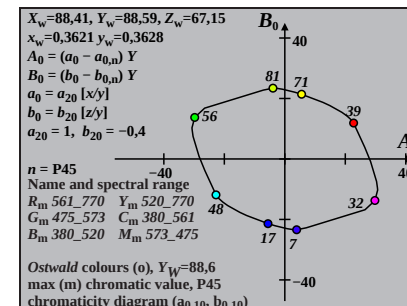
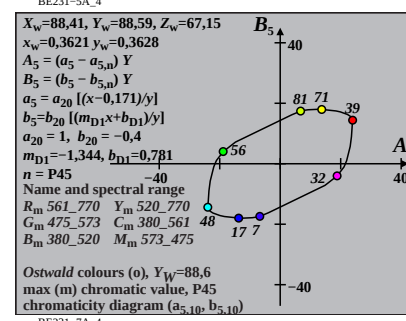
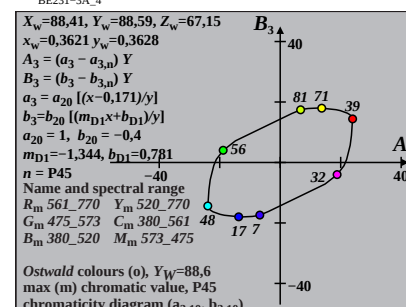
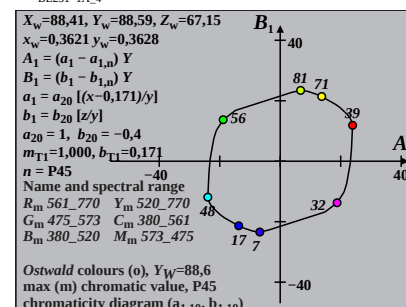
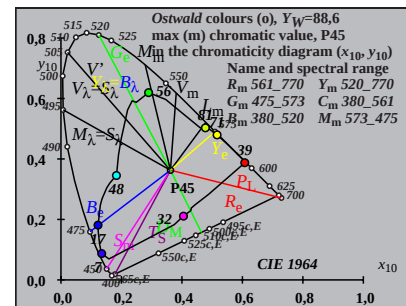
TUB-test chart BE23; CIE (x_{10}, y_{10}) and chromatic values ($A_{i,10}, B_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P50; diagram for illuminant P50, $Y_{w,10}=100$



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P45, $Y_{w,10}=88,6$, $Y_m=520,770$

i_1, λ_1	i_2, λ_2	Y_{10}	A_{10}	B_{10}	$C_{AB,10}$	a_{10}	b_{10}	$h_{AB,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	32 561	48.78	-22.87	-11.6	25.65	0.5291	-0.5411	206.8	16 480	38 590	Cm
7 435	32 562	49.1	-26.44	-3.82	26.72	0.4594	-0.381	188.2	17 486	-1 486c	
10 450	32 564	49.35	-29.11	3.04	29.27	0.4081	-0.2415	174.0	18 494	-1 494c	
11 460	33 566	50.49	-29.91	5.56	30.43	0.4054	-0.193	169.4	19 499	-1 499c	
13 465	33 568	51.01	-30.62	9.51	32.07	0.3976	-0.1166	162.7	22 513	-1 513c	
13 470	34 571	53.52	-30.7	10.27	32.37	0.4243	-0.1111	161.4	23 516	-1 516c	
15 475	35 577	56.19	-29.8	13.73	32.81	0.4676	-0.0587	155.2	26 532	-1 532c	Gm
15 480	37 589	64.3	-27.22	16.19	31.67	0.5747	-0.0513	149.2	28 542	-1 542c	
17 485	51 659	82.04	-6.12	23.11	23.9	0.9233	-0.0215	104.8	32 564	10 454	
18 490	-1 490c	81.43	-3.91	23.41	23.73	0.9499	-0.0157	99.4	33 566	12 460	max
19 495	-1 495c	79.96	-2.46	23.32	23.45	0.9672	-0.0115	96.0	33 566	12 462	
20 500	-1 500c	78.23	-0.76	23.06	23.07	0.9882	-0.0084	91.9	33 567	12 464	
22 510	-1 510c	73.9	3.26	22.08	22.32	1.0421	-0.0044	81.6	34 570	13 468	Ym
23 520	-1 519c	71.28	5.53	21.39	22.09	1.0756	-0.0031	75.4	34 571	14 470	
25 530	-1 529c	65.24	10.27	19.68	22.2	1.1555	-0.0014	62.4	34 574	14 473	
27 540	-1 539c	58.32	14.88	17.65	23.09	1.2531	-0.0005	49.8	35 578	15 475	
29 545	-1 545c	50.85	18.88	15.41	24.37	1.3694	0.0	39.2	36 582	15 477	
29 550	-1 549c	50.85	18.88	15.41	24.37	1.3694	0.0	39.2	36 582	15 477	
30 555	-1 554c	47.0	20.5	14.25	24.97	1.4343	0.0	34.7	36 584	15 478	
32 560	-1 560c	39.25	22.74	11.9	25.67	1.5774	0.0	27.6	38 590	16 480	
32 561	1 405	51.21	22.87	11.6	25.65	1.4446	-0.0766	26.8	38 590	16 480	Rm
32 562	7 435	50.89	26.44	3.82	26.72	1.5177	-0.2281	8.2	-1 486c	17 486	
32 564	10 450	50.64	29.11	-3.04	29.27	1.5729	-0.3633	354.0	-1 494c	18 494	
33 566	11 460	49.5	29.91	-5.56	30.43	1.6023	-0.4156	349.4	-1 499c	19 499	
33 568	13 465	48.98	30.62	-9.51	32.07	1.6232	-0.4975	342.7	-1 513c	22 513	
34 571	13 470	46.47	30.7	-10.27	32.37	1.6586	-0.5243	341.4	-1 516c	23 516	
35 577	15 475	43.8	29.8	-13.73	32.81	1.6783	-0.6168	335.2	-1 532c	26 532	Mm
37 589	15 480	35.69	27.22	-16.19	31.67	1.7607	-0.757	329.2	-1 542c	28 542	
51 659	17 485	17.95	6.12	-23.11	23.9	1.339	-1.5901	284.8	10 454	32 564	
-1 490c	18 490	18.56	3.91	-23.41	23.73	1.209	-1.5644	279.4	12 460	33 566	min
-1 495c	19 495	20.03	2.46	-23.32	23.45	1.1208	-1.4672	276.0	12 462	33 566	
-1 500c	20 500	21.76	0.76	-23.06	23.07	1.0332	-1.3626	271.9	12 464	33 567	
-1 510c	22 510	26.09	-3.26	-22.08	22.32	0.873	-1.1494	261.6	13 468	34 570	
-1 519c	23 520	28.71	-5.53	-21.39	22.09	0.8053	-1.0481	255.4	14 470	34 571	Bm
-1 529c	25 530	34.75	-10.27	-19.68	22.2	0.7024	-0.8696	242.4	14 473	34 574	
-1 539c	27 540	41.67	-14.88	-17.65	23.09	0.6409	-0.7269	229.8	15 475	35 578	
-1 545c	29 545	49.14	-18.88	-15.41	24.37	0.6137	-0.6168	219.2	15 477	36 582	
-1 549c	29 550	49.14	-18.88	-15.41	24.37	0.6137	-0.6168	219.2	15 477	36 582	
-1 554c	30 555	52.99	-20.5	-14.25	24.97	0.6109	-0.5722	214.7	15 478	36 584	
-1 560c	32 560	60.74	-22.74	-11.9	25.67	0.6235	-0.4991	207.6	16 480	38 590	
380	770	88.59	0.0	0.0	0.01	0.998	-0.3032	0.0			

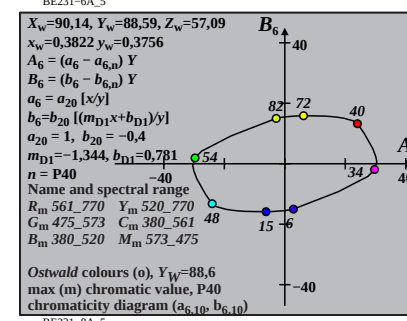
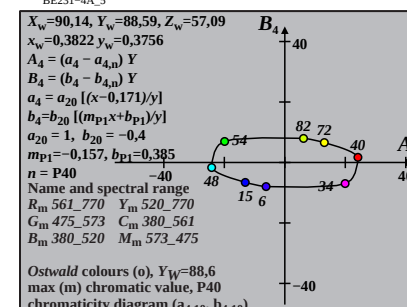
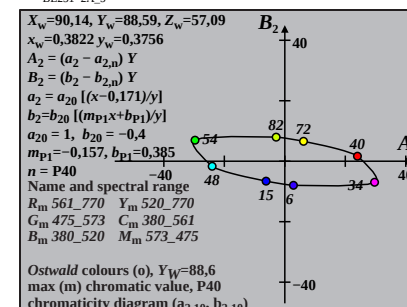
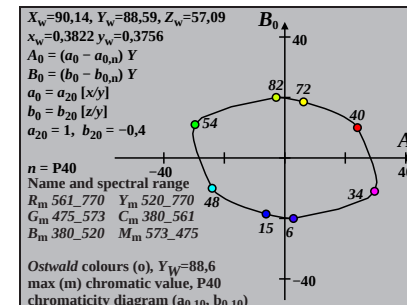
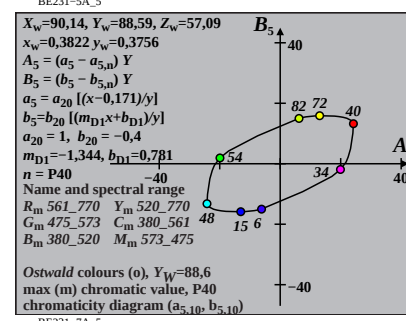
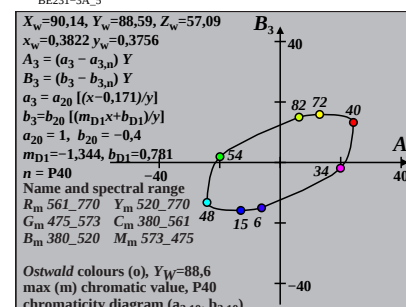
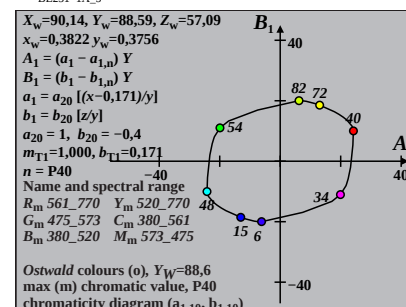
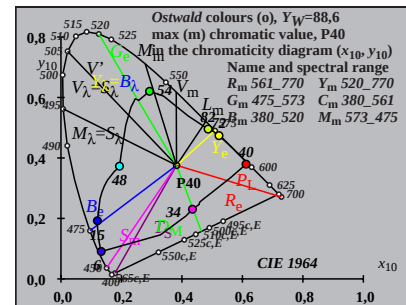
TUB-test chart BE23; CIE (x_{10}, y_{10}) and chromatic values ($A_{i,10}, B_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P45; diagram for illuminant P45, $Y_{w,10}=100$



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P40, $Y_{w,10}=88,6$, $Y_m=520,770$

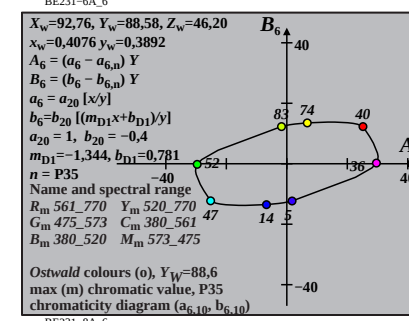
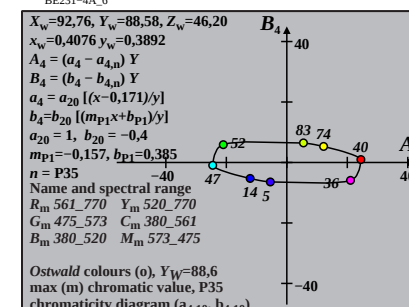
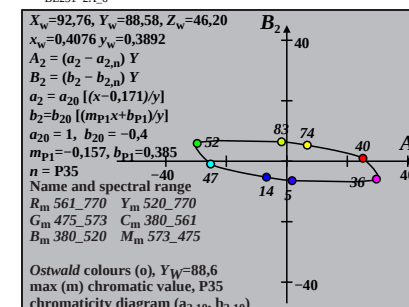
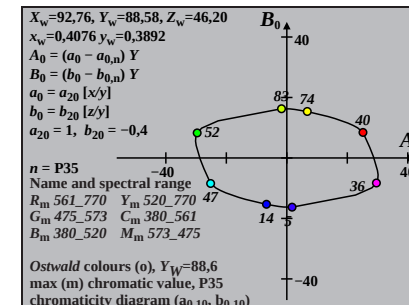
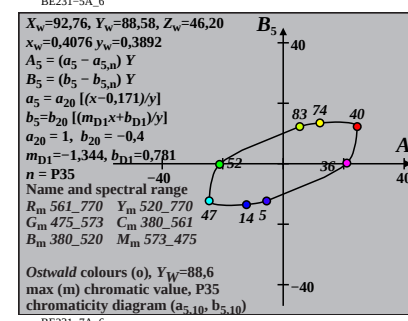
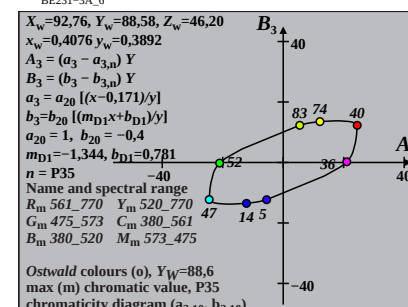
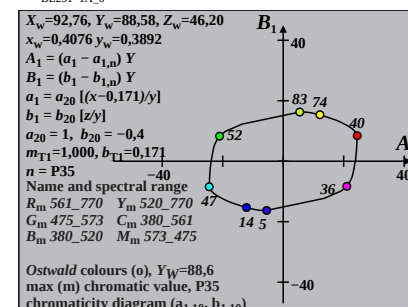
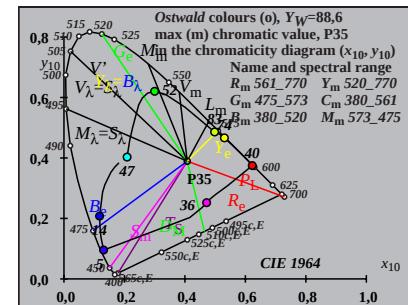
i_1, λ_1	i_2, λ_2	Y_{10}	A_{10}	B_{10}	$C_{AB,10}$	a_{10}	b_{10}	$h_{AB,10}$	i_d, λ_d	i_c, λ_c	Code
0 405	32 563	48.29	-23.91	-10.23	26.01	0.5223	-0.4697	203.1	16 481	38 591	Cm
7 435	32 564	48.56	-26.91	-3.73	27.17	0.4633	-0.3347	187.9	17 487	-1 487c	
10 450	33 565	48.79	-29.1	2.03	29.17	0.4209	-0.216	175.9	19 495	-1 495c	
12 460	33 567	49.38	-30.1	5.8	30.66	0.4078	-0.1403	169.0	21 505	-1 505c	
12 465	33 568	50.64	-30.23	6.12	30.84	0.4206	-0.1368	168.5	21 506	-1 506c	
14 470	34 571	51.74	-30.3	9.28	31.69	0.4318	-0.0784	162.9	24 521	-1 521c	
15 475	35 576	54.48	-29.7	11.02	31.68	0.4722	-0.0555	159.6	26 531	-1 531c	Gm
16 480	37 585	60.22	-27.45	13.29	30.5	0.5616	-0.0371	154.1	28 542	-1 542c	
17 485	42 611	73.36	-16.8	17.27	24.1	0.7884	-0.0223	134.2	31 558	-1 558c	
17 490	-1 489c	83.41	-3.97	19.86	20.25	0.9698	-0.0196	101.3	33 566	11 458	max
19 495	-1 495c	80.92	-1.48	19.99	20.04	0.9991	-0.0107	94.2	33 568	12 463	
20 500	-1 500c	79.31	0.11	19.82	19.82	1.0189	-0.0078	89.6	33 569	13 465	
22 510	-1 510c	75.25	3.97	19.08	19.49	1.0703	-0.0041	78.2	34 571	13 469	
23 520	-1 519c	72.76	6.18	18.54	19.54	1.1024	-0.0029	71.5	34 572	14 471	Ym
25 530	-1 529c	66.96	10.84	17.17	20.3	1.1794	-0.0013	57.7	35 575	14 474	
28 540	-1 540c	56.6	17.6	14.57	22.85	1.3284	-0.0002	39.6	36 581	15 477	
28 545	-1 544c	56.6	17.6	14.57	22.85	1.3284	-0.0002	39.6	36 581	15 477	
30 550	-1 550c	49.03	21.23	12.63	24.71	1.4506	0.0	30.7	37 585	15 479	
31 555	-1 555c	45.14	22.62	11.63	25.43	1.5185	0.0	27.2	37 587	16 480	
31 560	-1 559c	45.14	22.62	11.63	25.43	1.5185	0.0	27.2	37 587	16 480	
32 563	0 405	51.7	23.91	10.23	26.01	1.4799	-0.0598	23.1	38 591	16 481	Rm
32 564	7 435	51.43	26.91	3.73	27.17	1.5408	-0.1851	7.9	-1 487c	17 487	
33 565	10 450	51.2	29.1	-2.03	29.17	1.5859	-0.2975	355.9	-1 495c	19 495	
33 567	12 460	50.61	30.1	-5.8	30.66	1.6123	-0.3723	349.0	-1 505c	21 505	
33 568	12 465	49.35	30.23	-6.12	30.84	1.63	-0.3819	348.5	-1 506c	21 506	
34 571	14 470	48.25	30.3	-9.28	31.69	1.6454	-0.4501	342.9	-1 521c	24 521	
35 576	15 475	45.51	29.7	-11.02	31.68	1.6702	-0.4999	339.6	-1 531c	26 531	Mm
37 585	16 480	39.77	27.45	-13.29	30.5	1.7079	-0.5919	334.1	-1 542c	28 542	
42 611	17 485	26.63	16.8	-17.27	24.1	1.6486	-0.9063	314.2	-1 558c	31 558	
-1 489c	17 490	16.58	3.97	-19.86	20.25	1.2574	-1.4553	281.3	11 458	33 566	min
-1 495c	19 495	19.07	1.48	-19.99	20.04	1.0955	-1.3056	274.2	12 463	33 568	
-1 500c	20 500	20.68	-0.11	-19.82	19.82	1.0119	-1.216	269.6	13 465	33 569	
-1 510c	22 510	24.74	-3.97	-19.08	19.49	0.8568	-1.029	258.2	13 469	34 571	
-1 519c	23 520	27.23	-6.18	-18.54	19.54	0.7905	-0.9386	251.5	14 471	34 572	Bm
-1 529c	25 530	33.03	-10.84	-17.17	20.3	0.6892	-0.7775	237.7	14 474	35 575	
-1 540c	28 540	43.39	-17.6	-14.57	22.85	0.6118	-0.5937	219.6	15 477	36 581	
-1 544c	28 545	43.39	-17.6	-14.57	22.85	0.6118	-0.5937	219.6	15 477	36 581	
-1 550c	30 550	50.96	-21.23	-12.63	24.71	0.6007	-0.5057	210.7	15 479	37 585	
-1 555c	31 555	54.85	-22.62	-11.63	25.43	0.6051	-0.4699	207.2	16 480	37 587	
-1 559c	31 560	54.85	-22.62	-11.63	25.43	0.6051	-0.4699	207.2	16 480	37 587	
380	770	88.59	0.0	0.0	0.01	1.0175	-0.2577	0.0			

TUB-test chart BE23; CIE (x_{10}, y_{10}) and chromatic values ($A_{i,10}, B_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P40; diagram for illuminant P40, $Y_{w,10}=100$



see similar files: <http://farbe.li.tu-berlin.de/BE23/BE23.HTM>
technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

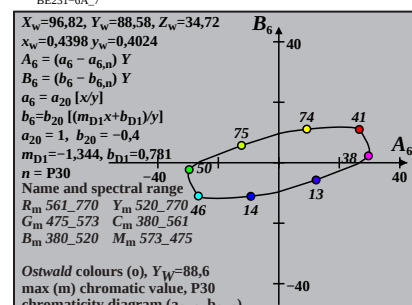
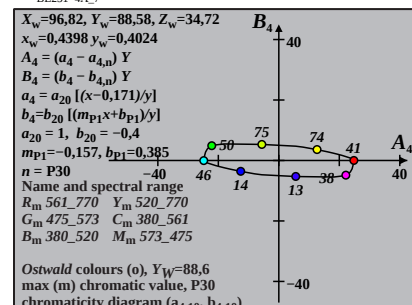
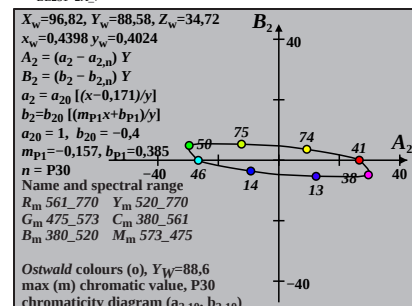
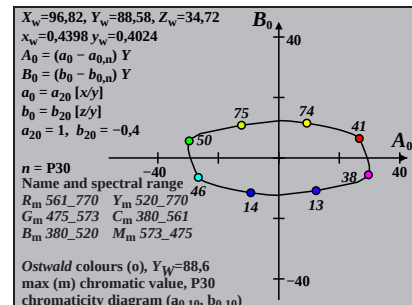
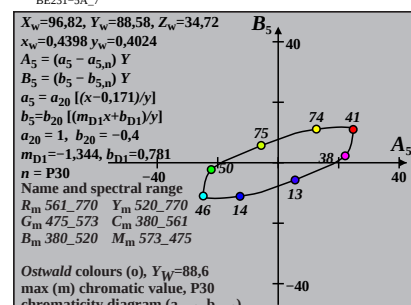
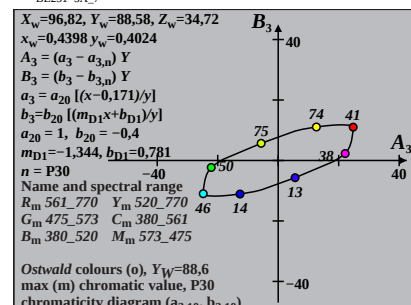
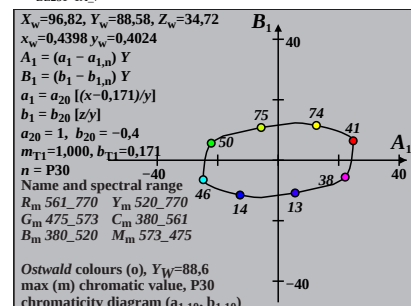
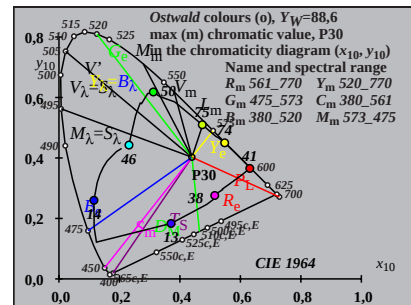
Oswald optimal colours (o) of maximum (m) $C_{AB,10}$ for P35, $Y_{w,10}=88.6$, $Y_m=520_770$															
i_1	λ_1	i_2	λ_2	Y_{10}	A_{10}	B_{10}	$C_{AB,10}$	a_{10}	b_{10}	$h_{AB,10}$	i_d	λ_d	i_c	λ_c	Code
1	405	33	566	47.6	-25.26	-8.29	26.59	0.5164	-0.3829	198.1	16	484	38	594	Cm
7	435	33	566	47.85	-27.41	-3.52	27.64	0.4742	-0.2823	187.3	17	488	58	694	
10	450	33	567	48.03	-29.13	1.06	29.15	0.4405	-0.1863	177.8	19	496	-1	496c	
12	460	33	568	48.52	-29.97	4.13	30.25	0.4294	-0.1234	172.1	21	505	-1	505c	
12	465	34	570	49.55	-30.07	4.35	30.39	0.4401	-0.1208	171.7	21	506	-1	506c	
14	470	34	572	50.39	-30.08	6.94	30.87	0.4502	-0.0709	167.0	24	521	-1	521c	
14	475	35	576	53.14	-29.99	7.51	30.92	0.4827	-0.0672	165.9	24	524	-1	524c	Gm
16	480	36	583	56.92	-28.15	9.87	29.83	0.5526	-0.0352	160.6	28	540	-1	540c	
17	485	39	598	65.95	-22.71	12.27	25.81	0.7027	-0.0225	151.6	30	552	-1	552c	
17	490	-1	489c	84.24	-2.79	16.09	16.33	1.0139	-0.0176	99.8	33	568	11	459	max
18	495	-1	494c	83.23	-1.77	16.27	16.36	1.0258	-0.0131	96.2	33	569	12	461	
19	500	-1	499c	82.02	-0.51	16.31	16.32	1.0408	-0.0097	91.8	34	570	12	464	
22	510	-1	510c	76.84	4.62	15.73	16.4	1.1073	-0.0038	73.6	34	572	14	470	
24	520	-1	520c	71.92	8.99	14.86	17.38	1.1722	-0.0019	58.8	35	575	14	473	Ym
26	530	-1	530c	65.94	13.63	13.7	19.33	1.2538	-0.0008	45.1	35	578	15	476	
27	540	-1	539c	62.59	15.93	13.03	20.58	1.3016	-0.0004	39.2	36	580	15	478	
28	545	-1	544c	59.06	18.12	12.3	21.9	1.354	-0.0002	34.1	36	581	15	479	
30	550	-1	550c	51.59	21.92	10.76	24.42	1.4721	0.0	26.1	37	586	16	481	
31	555	-1	555c	47.71	23.42	9.95	25.45	1.538	0.0	23.0	37	588	16	482	
32	560	-1	560c	43.78	24.56	9.13	26.2	1.608	0.0	20.4	38	591	16	483	
33	566	1	405	52.39	25.26	8.29	26.59	1.5292	-0.0502	18.1	38	594	16	484	Rm
33	566	7	435	52.14	27.41	3.52	27.64	1.5728	-0.141	7.3	58	694	17	488	
33	567	10	450	51.96	29.13	-1.06	29.15	1.6079	-0.2292	357.8	-1	496c	19	496	
33	568	12	460	51.47	29.97	-4.13	30.25	1.6294	-0.289	352.1	-1	505c	21	505	
34	570	12	465	50.44	30.07	-4.35	30.39	1.6433	-0.2948	351.7	-1	506c	21	506	
34	572	14	470	49.6	30.08	-6.94	30.87	1.6536	-0.3485	347.0	-1	521c	24	521	
35	576	14	475	46.85	29.99	-7.51	30.92	1.6872	-0.369	345.9	-1	524c	24	524	Mm
36	583	16	480	43.07	28.15	-9.87	29.83	1.7007	-0.4377	340.6	-1	540c	28	540	
39	598	17	485	34.04	22.71	-12.27	25.81	1.7141	-0.5691	331.6	-1	552c	30	552	
-1	489c	17	490	15.75	2.79	-16.09	16.33	1.2245	-1.2298	279.8	11	459	33	568	min
-1	494c	18	495	16.76	1.77	-16.27	16.36	1.1527	-1.1793	276.2	12	461	33	569	
-1	499c	19	500	17.97	0.51	-16.31	16.32	1.0756	-1.1161	271.8	12	464	34	570	
-1	510c	22	510	23.15	-4.62	-15.73	16.4	0.8472	-0.8883	253.6	14	470	34	572	
-1	520c	24	520	28.07	-8.99	-14.86	17.38	0.7265	-0.7383	238.8	14	473	35	575	Bm
-1	530c	26	530	34.05	-13.63	-13.7	19.33	0.6467	-0.611	225.1	15	476	35	578	
-1	539c	27	540	37.4	-15.93	-13.03	20.58	0.6212	-0.557	219.2	15	478	36	580	
-1	544c	28	545	40.93	-18.12	-12.3	21.9	0.6044	-0.5093	214.1	15	479	36	581	
-1	550c	30	550	48.4	-21.92	-10.76	24.42	0.594	-0.431	206.1	16	481	37	586	
-1	555c	31	555	52.28	-23.42	-9.95	25.45	0.5991	-0.399	203.0	16	482	37	588	
-1	560c	32	560	56.21	-24.56	-9.13	26.2	0.6102	-0.3711	200.4	16	483	38	591	
	380	770	88.58	0.0	0.0	0.0	0.01	1.0471	-0.2086	0.0					



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P30, $Y_{w,10}=88,6$, $Y_m=520,770$

i_1, λ_1	i_2, λ_2	Y_{10}	A_{10}	B_{10}	$C_{AB,10}$	a_{10}	b_{10}	$h_{AB,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	33 569	46.66	-26.6	-6.41	27.36	0.5228	-0.2942	193.5	17 486	39 596	Cm
6 435	33 569	46.93	-27.71	-4.06	28.0	0.5025	-0.2433	188.3	17 489	43 615	
9 450	34 570	47.16	-28.96	-0.92	28.98	0.4787	-0.1763	181.8	18 494	-1 494c	
12 460	34 571	47.38	-29.89	2.53	30.0	0.4619	-0.1032	175.1	21 505	-1 505c	
13 465	34 572	47.85	-30.0	3.62	30.22	0.4658	-0.0809	173.1	22 512	-1 512c	
14 470	34 573	48.77	-29.96	4.65	30.32	0.4784	-0.0614	171.1	24 520	-1 520c	
14 475	35 576	50.81	-29.92	4.97	30.33	0.5039	-0.0589	170.5	24 523	-1 523c	Gm
15 480	36 581	54.03	-29.21	6.18	29.86	0.5522	-0.0422	168.0	26 534	-1 534c	
16 485	38 590	60.04	-26.76	7.69	27.84	0.6472	-0.0287	163.9	29 546	-1 546c	
18 490	44 620	75.29	-12.34	10.84	16.43	0.9289	-0.0128	138.7	32 564	-1 564c	max
19 495	-1 495c	83.28	0.38	12.34	12.35	1.0975	-0.0085	88.2	34 572	13 465	
20 500	-1 500c	82.02	1.73	12.33	12.45	1.114	-0.0063	81.9	34 572	13 467	
21 510	-1 509c	80.52	3.31	12.24	12.68	1.134	-0.0047	74.8	34 573	13 469	
23 520	-1 519c	76.65	7.11	11.82	13.8	1.1857	-0.0024	58.9	35 575	14 473	Ym
26 530	-1 530c	68.71	13.83	10.72	17.5	1.2942	-0.0007	37.7	35 579	15 478	
28 540	-1 540c	62.16	18.4	9.73	20.81	1.3889	-0.0002	27.8	36 583	16 481	
29 545	-1 545c	58.61	20.51	9.18	22.47	1.4429	0.0	24.1	37 585	16 482	
30 550	-1 550c	54.9	22.43	8.6	24.02	1.5014	0.0	20.9	37 587	16 483	
31 555	-1 555c	51.06	24.08	8.0	25.38	1.5645	0.0	18.3	37 589	16 484	
32 560	-1 560c	47.13	25.4	7.39	26.45	1.6318	0.0	16.2	38 592	17 485	
33 569	1 405	53.33	26.6	6.41	27.36	1.5917	-0.0365	13.5	39 596	17 486	Rm
33 569	6 435	53.06	27.71	4.06	28.0	1.6151	-0.0802	8.3	43 615	17 489	
34 570	9 450	52.83	28.96	0.92	28.98	1.6412	-0.1393	1.8	-1 494c	18 494	
34 571	12 460	52.61	29.89	-2.53	30.0	1.6611	-0.2049	355.1	-1 505c	21 505	
34 572	13 465	52.14	30.0	-3.62	30.22	1.6683	-0.2263	353.1	-1 512c	22 512	
34 573	14 470	51.22	29.96	-4.65	30.32	1.6779	-0.2476	351.1	-1 520c	24 520	
35 576	14 475	49.18	29.92	-4.97	30.33	1.7014	-0.2578	350.5	-1 523c	24 523	Mm
36 581	15 480	45.96	29.21	-6.18	29.86	1.7284	-0.2914	348.0	-1 534c	26 534	
38 590	16 485	39.95	26.76	-7.69	27.84	1.7628	-0.3493	343.9	-1 546c	29 546	
44 620	18 490	24.7	12.34	-10.84	16.43	1.5927	-0.5955	318.7	-1 564c	32 564	min
-1 495c	19 495	16.71	-0.38	-12.34	12.35	1.0698	-0.8952	268.2	13 465	34 572	
-1 500c	20 500	17.97	-1.73	-12.33	12.45	0.9964	-0.8432	261.9	13 467	34 572	
-1 509c	21 510	19.47	-3.31	-12.24	12.68	0.9229	-0.7854	254.8	13 469	34 573	
-1 519c	23 520	23.34	-7.11	-11.82	13.8	0.7882	-0.6633	238.9	14 473	35 575	Bm
-1 530c	26 530	31.28	-13.83	-10.72	17.5	0.6507	-0.4996	217.7	15 478	35 579	
-1 540c	28 540	37.83	-18.4	-9.73	20.81	0.6065	-0.4141	207.8	16 481	36 583	
-1 545c	29 545	41.38	-20.51	-9.18	22.47	0.5971	-0.3787	204.1	16 482	37 585	
-1 550c	30 550	45.09	-22.43	-8.6	24.02	0.5954	-0.3477	200.9	16 483	37 587	
-1 555c	31 555	48.93	-24.08	-8.0	25.38	0.6007	-0.3204	198.3	16 484	37 589	
-1 560c	32 560	52.86	-25.4	-7.39	26.45	0.6124	-0.2966	196.2	17 485	38 592	
380	770	88.58	0.0	0.0	0.01	1.0929	-0.1567	0.0			

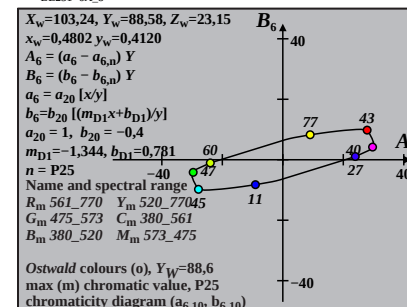
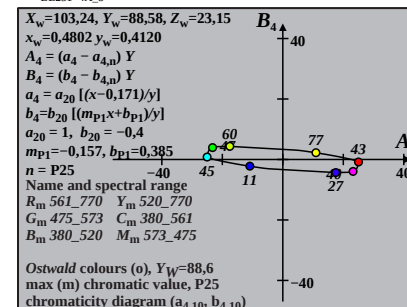
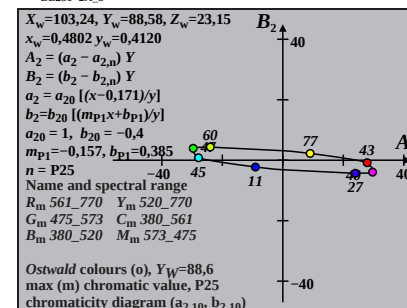
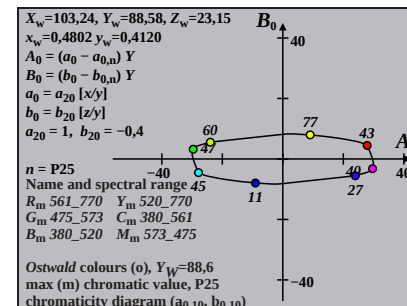
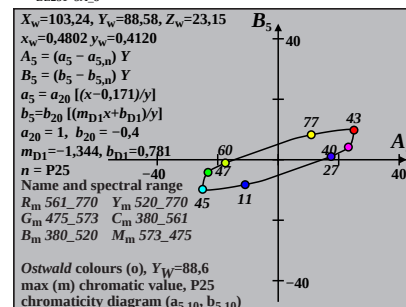
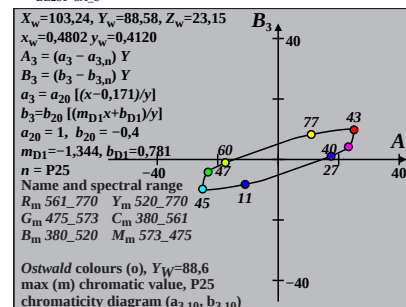
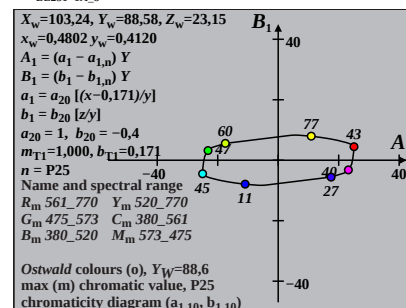
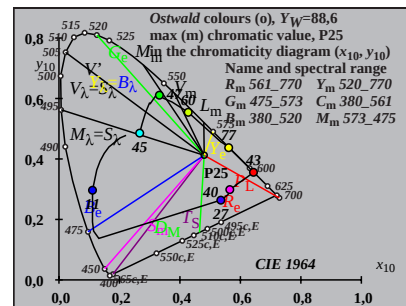
TUB-test chart BE23; CIE (x_{10}, y_{10}) and chromatic values ($A_{i,10}, B_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P30; diagram for illuminant P30, $Y_{w,10}=100$



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P25, $Y_{w,10}=88,6$, $Y_m=520,770$

i_1, λ_1	i_2, λ_2	Y_{10}	A_{10}	B_{10}	$C_{AB,10}$	a_{10}	b_{10}	$h_{AB,10}$	i_d, λ_d	i_c, λ_c	Code
1 405 34 573 45.26	-27.9	-4.44	28.25	0.549	-0.2028	189.0	18 490	39 599	Cm		
6 435 34 573 45.45	-28.52	-3.1	28.68	0.5379	-0.1729	186.2	18 492	42 613			
9 450 34 573 45.62	-29.29	-1.15	29.31	0.5234	-0.1299	182.2	19 497	-1 497c			
12 460 34 574 45.78	-29.92	1.14	29.94	0.5118	-0.0796	177.8	21 506	-1 506c			
12 465 35 575 46.3	-29.97	1.19	30.0	0.518	-0.0787	177.7	21 507	-1 507c			
13 470 35 576 46.96	-30.0	1.97	30.07	0.5265	-0.0624	176.2	22 513	-1 513c			
15 475 35 577 47.73	-29.65	3.19	29.83	0.544	-0.0375	173.8	25 527	-1 527c	Gm		
16 480 36 580 49.71	-29.14	3.82	29.39	0.5791	-0.0276	172.5	27 536	-1 536c			
17 485 37 586 53.19	-27.91	4.51	28.27	0.6407	-0.0197	170.8	28 544	-1 544c			
18 490 39 597 60.81	-23.98	5.56	24.61	0.771	-0.013	166.9	31 555	-1 555c	max		
19 495 58 690 84.52	0.83	8.23	8.28	1.1752	-0.007	84.2	35 575	13 466			
20 500 -1 500c 83.67	2.23	8.3	8.59	1.192	-0.0053	74.9	35 575	13 469			
21 510 -1 509c 82.44	3.61	8.29	9.04	1.2092	-0.0039	66.4	35 576	14 471			
24 520 -1 520c 77.12	9.07	7.94	12.06	1.283	-0.0015	41.2	35 579	15 477	Ym		
26 530 -1 530c 72.18	13.47	7.5	15.42	1.3521	-0.0006	29.0	36 581	16 481			
27 540 -1 539c 69.3	15.79	7.21	17.36	1.3933	-0.0003	24.5	36 583	16 482			
28 545 -1 544c 66.17	18.1	6.9	19.37	1.439	-0.0001	20.8	37 585	16 484			
29 550 -1 549c 62.83	20.33	6.56	21.37	1.4891	0.0	17.8	37 586	17 485			
31 555 -1 555c 55.56	24.29	5.8	24.98	1.6027	0.0	13.4	38 591	17 487			
31 560 -1 559c 55.56	24.29	5.8	24.98	1.6027	0.0	13.4	38 591	17 487			
34 573 1 405 54.73	27.9	4.44	28.25	1.6752	-0.0232	9.0	39 599	18 490	Rm		
34 573 6 435 54.54	28.52	3.1	28.68	1.6883	-0.0475	6.2	42 613	18 492			
34 573 9 450 54.37	29.29	1.15	29.31	1.7041	-0.0832	2.2	-1 497c	19 497			
34 574 12 460 54.21	29.92	-1.14	29.94	1.7172	-0.1255	357.8	-1 506c	21 506			
35 575 12 465 53.69	29.97	-1.19	30.0	1.7237	-0.1268	357.7	-1 507c	21 507			
35 576 13 470 53.03	30.0	-1.97	30.07	1.7313	-0.1418	356.2	-1 513c	22 513			
35 577 15 475 52.26	29.65	-3.19	29.83	1.7328	-0.1657	353.8	-1 527c	25 527	Mm		
36 580 16 480 50.28	29.14	-3.82	29.39	1.745	-0.1805	352.5	-1 536c	27 536			
37 586 17 485 46.8	27.91	-4.51	28.27	1.7618	-0.2009	350.8	-1 544c	28 544			
39 597 18 490 39.18	23.98	-5.56	24.61	1.7774	-0.2465	346.9	-1 555c	31 555	min		
58 690 19 495 15.47	-0.83	-8.23	8.28	1.1116	-0.6369	264.2	13 466	35 575			
-1 500c 20 500 16.32	-2.23	-8.3	8.59	1.0287	-0.6133	254.9	13 469	35 575			
-1 509c 21 510 17.55	-3.61	-8.29	9.04	0.9596	-0.5768	246.4	14 471	35 576			
-1 520c 24 520 22.87	-9.07	-7.94	12.06	0.7687	-0.4519	221.2	15 477	35 579	Bm		
-1 530c 26 530 27.81	-13.47	-7.5	15.42	0.6808	-0.3742	209.0	16 481	36 581			
-1 539c 27 540 30.69	-15.79	-7.21	17.36	0.6508	-0.3397	204.5	16 482	36 583			
-1 544c 28 545 33.82	-18.1	-6.9	19.37	0.6301	-0.3087	200.8	16 484	37 585			
-1 549c 29 550 37.16	-20.33	-6.56	21.37	0.6182	-0.2811	197.8	17 485	37 586			
-1 555c 31 555 44.43	-24.29	-5.8	24.98	0.6186	-0.2352	193.4	17 487	38 591			
-1 559c 31 560 44.43	-24.29	-5.8	24.98	0.6186	-0.2352	193.4	17 487	38 591			
380 770 88.58	0.0	0.0	0.01	1.1654	-0.1045	0.0					

TUB-test chart BE23; CIE (x_{10}, y_{10}) and chromatic values ($A_{i,10}, B_{i,10}$) input: w/rgb/cmyk -> rgb
Ostwald optimal colours for illuminant P25; diagram for illuminant P25, $Y_{w,10}=100$



TUB registration: 20170801-BE23/BE23L0NP.PDF /PS
application for measurement of offset print output

TUB material: code=rha4ta