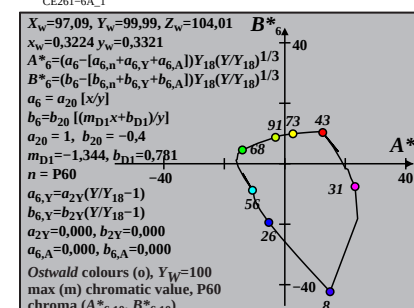
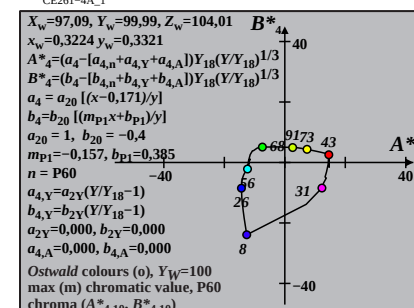
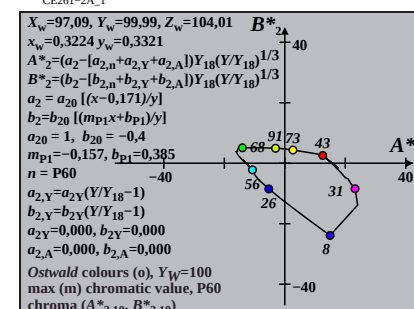
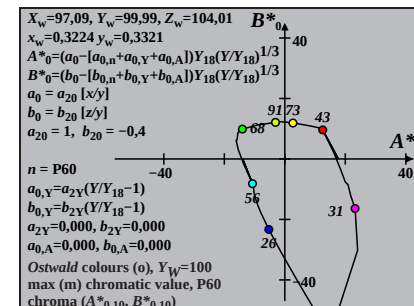
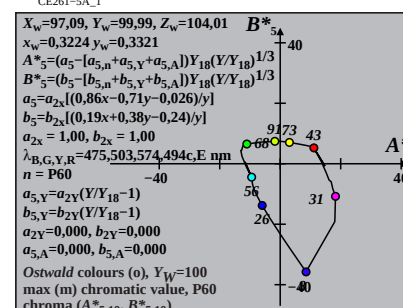
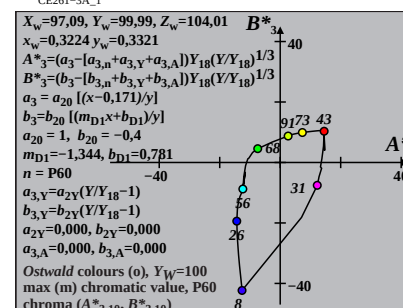
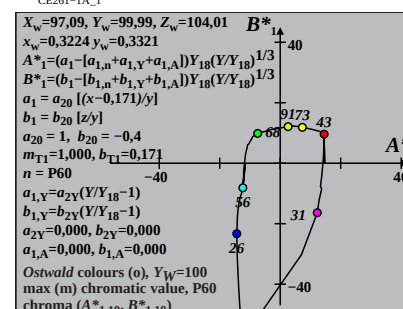
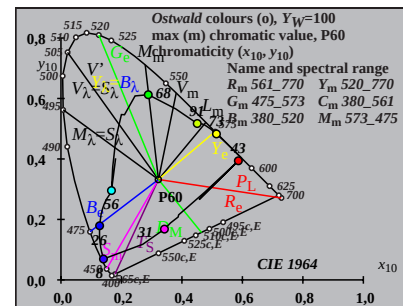


Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P60, $Y_{w,10}=100$, $Y_m=520-770$

i_1, λ_1	i_2, λ_2	L^*_{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	79.65	-68.11	-33.65	75.97	0.1811	-0.1021	206.2	15 477	37 587	Cm	
7 435 31 559	79.93	-91.36	-9.21	91.82	0.169	-0.0895	185.7	16 483	-1 483c		
9 450 32 561	80.39	-103.0	8.15	103.32	0.1631	-0.0807	175.4	17 489	-1 489c		
12 460 32 563	80.77	-115.89	39.42	122.41	0.1566	-0.0648	161.2	21 505	-1 505c		
13 465 33 566	81.61	-114.97	52.09	126.22	0.1576	-0.0585	155.6	22 514	-1 514c		
14 470 34 571	83.23	-108.71	66.02	127.19	0.1617	-0.0521	148.7	24 524	-1 524c		
14 475 36 580	86.59	-94.74	71.83	118.89	0.1704	-0.0503	142.8	26 531	-1 531c	Gm	
15 480 41 605	92.91	-55.94	93.24	108.73	0.191	-0.0427	120.9	30 550	-1 550c		
16 485 -1 484c	97.16	-19.55	110.25	111.97	0.2082	-0.0368	100.0	32 561	10 453		
18 490 -1 490c	95.88	-14.39	124.93	125.76	0.2104	-0.0298	96.5	32 563	11 458	max	
19 495 -1 495c	95.07	-10.94	130.83	131.29	0.2119	-0.0268	94.7	32 564	12 461		
20 500 -1 500c	94.12	-6.91	135.84	136.01	0.2137	-0.0241	92.9	33 565	12 463		
21 510 -1 509c	93.01	-2.36	139.93	139.95	0.2158	-0.0216	90.9	33 566	12 464		
24 520 -1 520c	88.59	14.08	145.9	146.58	0.2237	-0.0152	84.4	34 571	13 469	Ym	
26 530 -1 530c	84.75	26.38	143.6	146.0	0.2301	-0.0113	79.5	34 574	14 472		
28 540 -1 540c	80.23	39.05	137.72	143.15	0.2373	-0.0074	74.1	35 578	14 474		
29 545 -1 545c	77.75	45.25	133.84	141.29	0.2412	-0.0053	71.3	36 581	15 475		
30 550 -1 550c	75.11	51.25	129.47	139.25	0.2452	-0.003	68.4	36 583	15 476		
31 555 -1 555c	72.33	56.97	124.7	137.1	0.2494	0.0	65.4	37 586	15 476		
31 560 8 442	73.09	72.33	4.73	72.48	0.2578	-0.0822	3.7	-1 485c	17 485		
31 557 1 405	72.18	58.25	96.64	112.84	0.2502	-0.0308	58.9	37 587	15 477	Rm	
31 559 7 435	71.85	72.06	12.63	73.16	0.2582	-0.0777	9.9	-1 483c	16 483		
32 561 9 450	71.3	79.17	-8.91	79.67	0.2626	-0.0898	353.5	-1 489c	17 489		
32 563 12 460	70.84	86.24	-31.3	91.74	0.2669	-0.1026	340.0	-1 505c	21 505		
33 566 13 465	69.77	88.84	-38.08	96.66	0.2691	-0.1067	336.7	-1 514c	22 514		
34 571 14 470	67.59	92.04	-45.71	102.77	0.2723	-0.1117	333.5	-1 524c	24 524		
36 580 14 475	62.36	98.55	-54.73	112.73	0.2802	-0.1192	330.9	-1 531c	26 531	Mm	
41 605 15 480	48.56	100.41	-81.39	129.25	0.2952	-0.1469	320.9	-1 550c	30 550		
-1 484c 16 485	32.19	74.02	-111.68	133.99	0.2943	-0.199	303.5	10 453	32 561		
-1 490c 18 490	38.34	48.5	-103.66	114.44	0.2619	-0.1788	295.0	11 458	32 563	min	
-1 495c 19 495	41.56	34.73	-98.88	104.8	0.2473	-0.1694	289.3	12 461	32 564		
-1 500c 20 500	44.88	20.63	-93.71	95.95	0.234	-0.1606	282.4	12 463	33 565		
-1 509c 21 510	48.29	6.59	-88.23	88.48	0.2221	-0.1524	274.2	12 464	33 566		
-1 520c 24 520	58.71	-31.45	-70.91	77.57	0.1957	-0.1315	246.0	13 469	34 571	Bm	
-1 530c 26 530	65.34	-49.7	-59.65	77.64	0.1861	-0.1209	230.1	14 472	34 574		
-1 540c 28 540	71.49	-61.23	-49.12	78.5	0.1817	-0.1125	218.7	14 474	35 578		
-1 545c 29 545	74.33	-64.5	-44.24	78.22	0.181	-0.1089	214.4	15 475	36 581		
-1 550c 30 550	77.01	-66.22	-39.63	77.18	0.1811	-0.1058	210.8	15 476	36 583		
-1 555c 31 555	79.53	-66.51	-35.28	75.29	0.1819	-0.103	207.9	15 476	37 586		
8 442 31 560	78.87	-98.28	-3.94	98.36	0.1648	-0.0869	182.3	17 485	-1 485c		
380	770	100.0	0.0	0.0	0.0	0.2169	-0.0848	0.0			

TUB-test chart CE26; CIE (x_{10}, y_{10}) and chroma $(A^*_{i,10}, B^*_{i,10})$

Ostwald optimal colours for illuminant P60; diagram for illuminant P60, $Y_{w,10}=100$



TUV registration: 20170801-CE26/CE26L0NA.TXT /.PSS
application for measurement of offset print output

TUB material: code=rha4ta

input: w/rgb/cmyk -> rgb

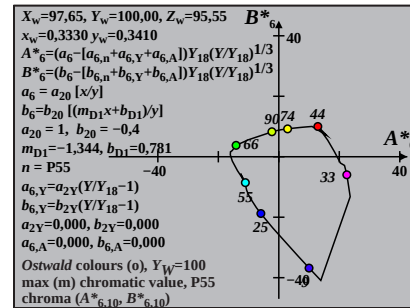
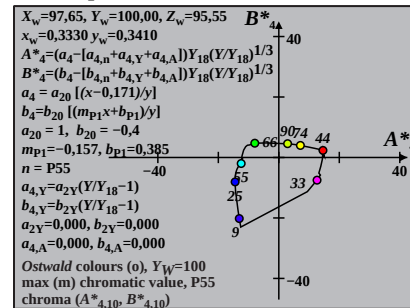
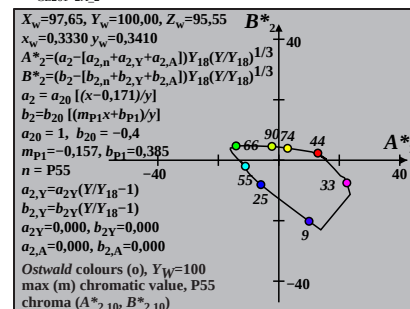
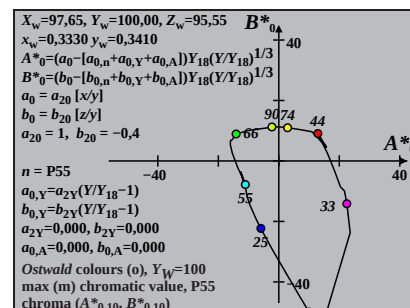
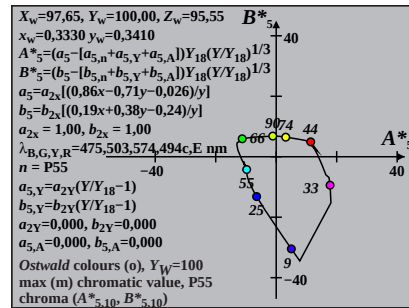
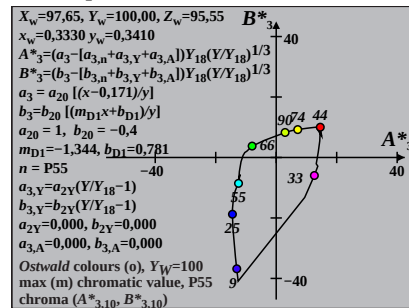
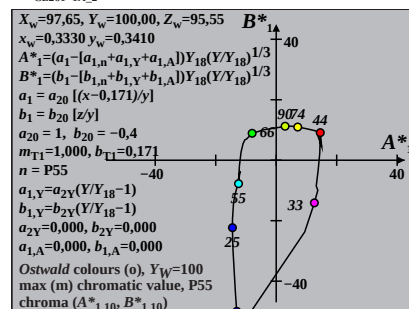
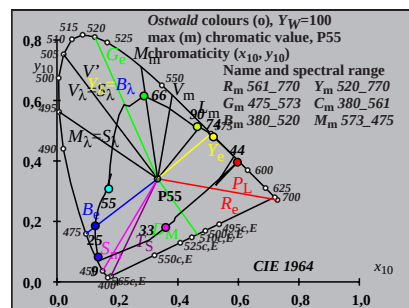
TUB-test chart CE26; CIE (x_{10}, y_{10}) and chroma $(A^*_{i,10}, B^*_{i,10})$

Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P55, $Y_{w,10}=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	L^*_{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	79.53	-70.43	-34.71	78.52	0.1801	-0.0998	206.2	15 477	37 587	Cm
7 435	32 560	79.77	-92.17	-10.23	92.74	0.1688	-0.0876	186.3	16 484	-1 484c	
10 450	32 561	79.96	-108.23	15.84	109.38	0.1604	-0.0745	171.6	18 493	-1 493c	
12 460	32 564	80.54	-114.47	37.75	120.54	0.1575	-0.0637	161.7	21 505	-1 505c	
12 465	33 566	81.69	-110.94	39.74	117.84	0.16	-0.063	160.2	21 507	-1 507c	
14 470	34 571	82.78	-107.9	63.92	125.42	0.1622	-0.0515	149.3	24 523	-1 523c	
15 475	35 579	85.35	-94.93	78.88	123.43	0.1701	-0.0452	140.2	26 533	-1 533c	Gm
16 480	39 599	90.92	-61.57	98.18	115.89	0.1883	-0.0385	122.0	29 548	-1 548c	
16 485	-1 484c	97.36	-17.28	109.29	110.65	0.2096	-0.0363	98.9	32 562	10 454	
17 490	-1 489c	96.8	-15.11	117.21	118.18	0.2106	-0.0327	97.3	32 563	11 456	max
19 495	-1 495c	95.37	-9.07	130.19	130.5	0.2132	-0.0265	93.9	33 565	12 461	
20 500	-1 500c	94.46	-5.21	135.32	135.42	0.2149	-0.0238	92.2	33 566	12 463	
22 510	-1 510c	92.14	4.07	142.94	143.0	0.2192	-0.0191	88.3	33 568	13 467	
24 520	-1 520c	89.1	15.14	146.87	147.65	0.2246	-0.015	84.1	34 571	14 470	Ym
25 530	-1 529c	87.32	21.07	146.3	147.81	0.2276	-0.0131	81.8	34 573	14 471	
27 540	-1 539c	83.23	33.39	142.16	146.03	0.2343	-0.0093	76.7	35 577	14 474	
28 545	-1 544c	80.93	39.63	138.93	144.48	0.2379	-0.0073	74.0	35 579	15 475	
29 550	-1 549c	78.49	45.77	135.12	142.66	0.2418	-0.0052	71.2	36 581	15 475	
31 555	-1 555c	73.14	57.4	126.1	138.55	0.2498	0.0	65.5	37 586	15 477	
32 560	6 430	70.56	70.6	30.04	76.73	0.2585	-0.0658	23.0	45 629	16 482	
31 558	0 405	72.33	59.35	111.76	126.55	0.2512	-0.0222	62.0	37 587	15 477	Rm
32 560	7 435	72.05	71.99	14.15	73.37	0.2586	-0.0748	11.1	-1 484c	16 484	
32 561	10 450	71.82	80.17	-15.51	81.65	0.2634	-0.0909	349.0	-1 493c	18 493	
32 564	12 460	71.12	84.82	-30.16	90.02	0.2664	-0.099	340.4	-1 505c	21 505	
33 566	12 465	69.67	87.32	-32.68	93.23	0.2687	-0.1007	339.4	-1 507c	21 507	
34 571	14 470	68.21	89.92	-44.23	100.21	0.2712	-0.1076	333.8	-1 523c	24 523	
35 579	15 475	64.4	93.16	-53.74	107.55	0.2758	-0.1144	330.0	-1 533c	26 533	Mm
39 599	16 480	53.71	93.91	-74.33	119.77	0.2853	-0.1335	321.6	-1 548c	29 548	
-1 484c	16 485	31.05	69.94	-113.39	133.23	0.2924	-0.1978	301.6	10 454	32 562	
-1 489c	17 490	34.09	57.57	-109.72	123.91	0.2753	-0.1873	297.6	11 456	32 563	min
-1 495c	19 495	40.42	30.66	-100.74	105.3	0.2448	-0.1679	286.9	12 461	33 565	
-1 500c	20 500	43.75	16.53	-95.58	96.99	0.2313	-0.159	279.8	12 463	33 566	
-1 510c	22 510	50.66	-11.26	-84.38	85.12	0.2088	-0.143	262.3	13 467	33 568	
-1 520c	24 520	57.67	-35.72	-72.67	80.97	0.1929	-0.1297	243.8	14 470	34 571	Bm
-1 529c	25 530	61.08	-45.66	-66.91	81.01	0.1874	-0.124	235.6	14 471	34 573	
-1 539c	27 540	67.58	-60.41	-55.83	82.26	0.1809	-0.1144	222.7	14 474	35 577	
-1 544c	28 545	70.63	-65.21	-50.6	82.54	0.1794	-0.1104	217.8	15 475	35 579	
-1 549c	29 550	73.52	-68.33	-45.64	82.17	0.1788	-0.1069	213.7	15 475	36 581	
-1 555c	31 555	78.83	-69.96	-36.5	78.91	0.1801	-0.1009	207.5	15 477	37 586	
6 430	32 560	80.99	-82.91	-17.53	84.74	0.1742	-0.0911	191.9	16 482	45 629	
380	770	100.0	0.0	0.0	0.0	0.2173	-0.0824	0.0			

TUB-test chart CE26; CIE (x_{10}, y_{10}) and chroma ($A^*_{i,10}, B^*_{i,10}$)
Ostwald optimal colours for illuminant P55; diagram for illuminant P55, $Y_{w,10}=100$

input: w/rgb/cmyk -> rgb

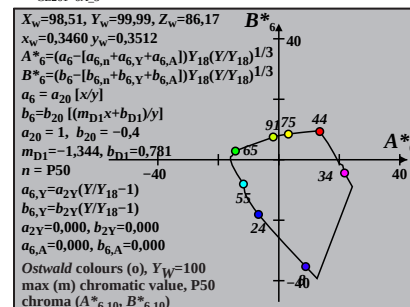
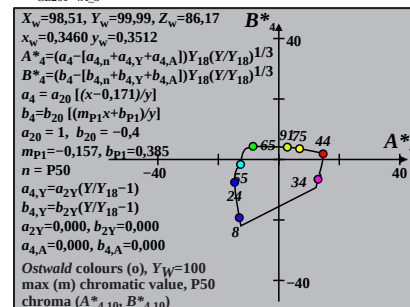
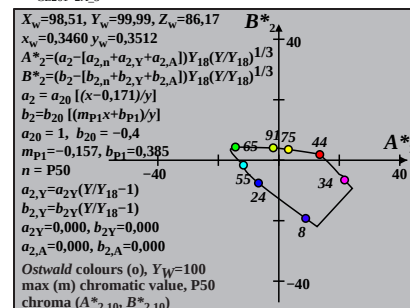
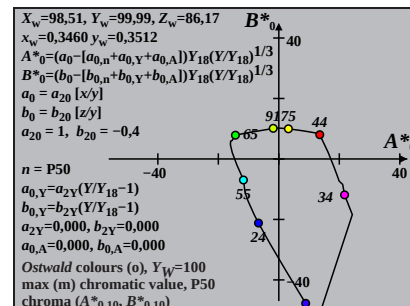
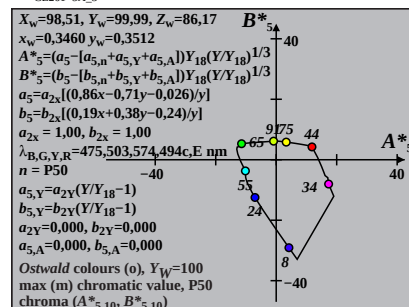
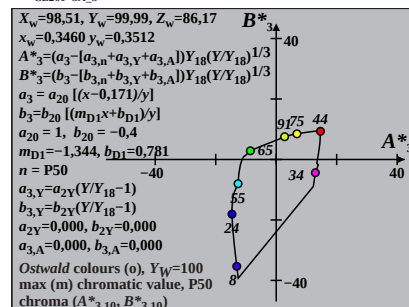
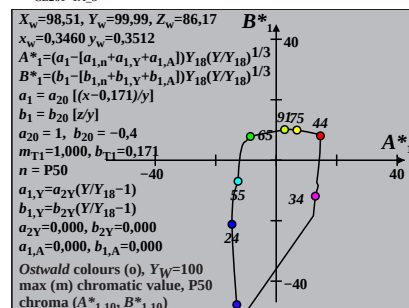
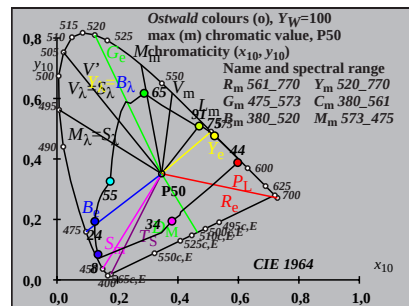


Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P50, $Y_{w,10}=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	L^*_{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	79.33	-74.68	-34.37	82.22	0.1783	-0.0963	204.7	15 479	37 589	Cm
7 435	32 561	79.56	-92.84	-11.48	93.55	0.1688	-0.0852	187.0	17 485	-1 485c	
9 450	32 562	79.94	-102.15	5.16	102.28	0.1641	-0.0772	177.1	18 490	-1 490c	
12 460	33 565	80.25	-112.82	35.73	118.35	0.1587	-0.0625	162.4	21 505	-1 505c	
13 465	33 567	80.94	-111.85	48.04	121.73	0.1596	-0.0567	156.7	22 513	-1 513c	
14 470	34 571	82.27	-106.87	61.43	123.27	0.1629	-0.0507	150.1	24 523	-1 523c	
14 475	35 578	85.05	-96.03	66.22	116.65	0.1699	-0.0494	145.4	25 529	-1 529c	Gm
16 480	38 593	89.39	-68.17	93.96	116.08	0.1852	-0.0384	125.9	29 546	-1 546c	
17 485	-1 485c	97.06	-12.79	116.12	116.82	0.2122	-0.0322	96.2	32 564	11 457	
18 490	-1 490c	96.45	-10.21	123.19	123.61	0.2134	-0.029	94.7	33 565	11 459	max
18 495	-1 494c	96.45	-10.21	123.19	123.61	0.2134	-0.029	94.7	33 565	11 459	
20 500	-1 500c	94.84	-3.41	134.63	134.68	0.2164	-0.0235	91.4	33 566	12 464	
22 510	-1 510c	92.63	5.47	142.61	142.71	0.2205	-0.0189	87.8	33 569	13 467	
24 520	-1 520c	89.71	16.15	148.01	148.88	0.2257	-0.0149	83.7	34 572	14 470	Ym
26 530	-1 530c	86.08	27.86	145.92	148.56	0.2318	-0.0111	79.1	35 575	14 473	
28 540	-1 540c	81.76	40.08	140.35	145.97	0.2387	-0.0072	74.0	35 579	15 475	
29 545	-1 545c	79.36	46.13	136.63	144.2	0.2424	-0.0052	71.3	36 581	15 476	
30 550	-1 550c	76.81	52.01	132.4	142.25	0.2463	-0.003	68.5	36 584	15 477	
31 555	-1 555c	74.1	57.64	127.76	140.17	0.2503	0.0	65.7	37 586	15 478	
32 560	-1 560c	71.24	62.91	122.82	138.0	0.2544	0.0	62.8	37 589	15 479	
32 560	1 405	72.56	61.36	99.42	116.84	0.253	-0.0277	58.3	37 589	15 479	Rm
32 561	7 435	72.3	71.7	16.04	73.48	0.259	-0.0713	12.6	-1 485c	17 485	
32 562	9 450	71.85	77.35	-5.75	77.56	0.2625	-0.0827	355.7	-1 490c	18 490	
33 565	12 460	71.47	83.15	-28.78	87.99	0.266	-0.0949	340.9	-1 505c	21 505	
33 567	13 465	70.63	85.06	-35.44	92.15	0.2676	-0.0986	337.3	-1 513c	22 513	
34 571	14 470	68.9	87.49	-42.51	97.28	0.2701	-0.1028	334.0	-1 523c	24 523	
35 578	14 475	64.89	92.52	-49.44	104.9	0.2758	-0.1079	331.8	-1 529c	25 529	Mm
38 593	16 480	57.09	92.02	-68.18	114.53	0.2817	-0.1228	323.4	-1 546c	29 546	
-1 485c	17 485	32.72	52.74	-111.84	123.65	0.2728	-0.1858	295.2	11 457	32 564	
-1 490c	18 490	35.82	39.64	-107.67	114.73	0.2567	-0.1758	290.2	11 459	33 565	min
-1 494c	18 495	35.82	39.64	-107.67	114.73	0.2567	-0.1758	290.2	11 459	33 565	
-1 500c	20 500	42.39	11.67	-97.81	98.51	0.2281	-0.1571	276.8	12 464	33 566	
-1 510c	22 510	49.34	-16.22	-86.59	88.1	0.2054	-0.1409	259.3	13 467	33 569	
-1 520c	24 520	56.42	-40.72	-74.8	85.17	0.1895	-0.1274	241.4	14 470	34 572	Bm
-1 530c	26 530	63.22	-58.78	-63.28	86.37	0.1804	-0.1166	227.1	14 473	35 575	
-1 540c	28 540	69.58	-69.82	-52.42	87.31	0.1767	-0.108	216.8	15 475	35 579	
-1 545c	29 545	72.52	-72.75	-47.36	86.81	0.1764	-0.1044	213.0	15 476	36 581	
-1 550c	30 550	75.32	-74.09	-42.55	85.44	0.1769	-0.1012	209.8	15 477	36 584	
-1 555c	31 555	77.96	-73.95	-37.99	83.14	0.1781	-0.0984	207.1	15 478	37 586	
-1 560c	32 560	80.44	-72.46	-33.71	79.92	0.1799	-0.0958	204.9	15 479	37 589	
380	770	100.0	0.0	0.0	0.0	0.218	-0.0797	0.0			

TUB-test chart CE26; CIE (x_{10}, y_{10}) and chroma ($A^*_{i,10}, B^*_{i,10}$)
Ostwald optimal colours for illuminant P50; diagram for illuminant P50, $Y_{w,10}=100$

input: w/rgb/cmyk -> rgb

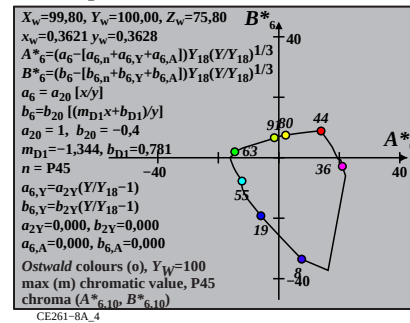
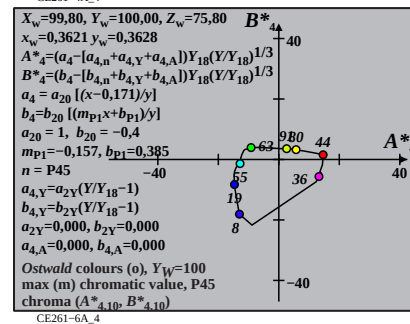
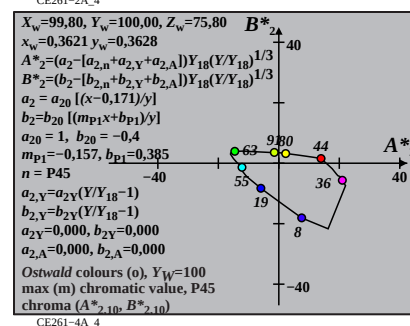
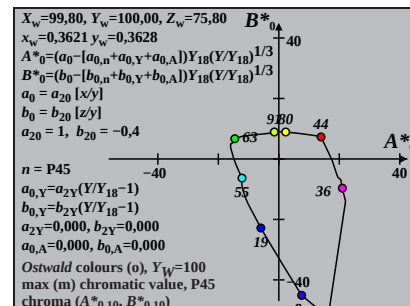
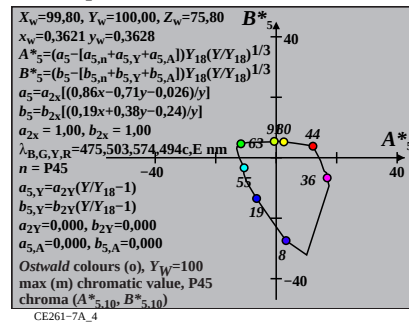
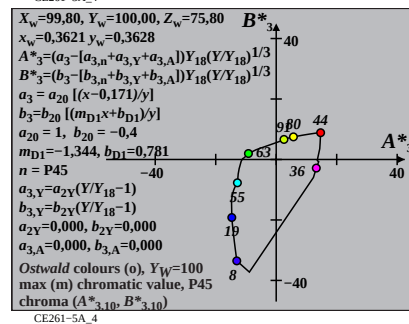
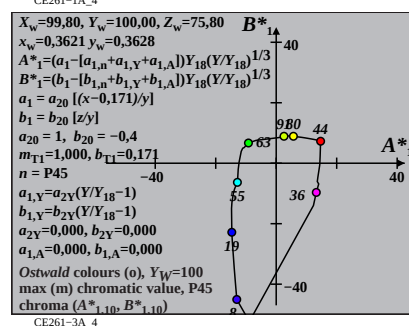
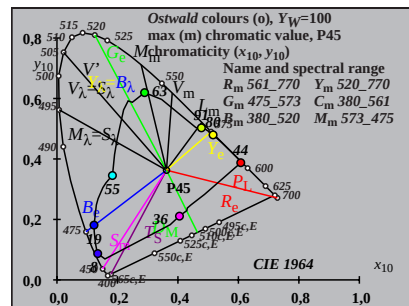


Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P45, $Y_{w,10}=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	L^*_{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	79.08	-78.12	-34.9	85.56	0.1772	-0.0926	204.0	16 480	38 590	Cm
7 435	32 562	79.29	-93.57	-13.0	94.47	0.169	-0.0824	187.9	17 486	-1 486c	
10 450	32 564	79.45	-106.02	12.01	106.7	0.1625	-0.0707	173.5	18 494	-1 494c	
11 460	33 566	80.18	-107.5	23.17	109.97	0.1621	-0.0656	167.8	19 499	-1 499c	
13 465	33 568	80.51	-109.86	45.36	118.86	0.1611	-0.0555	157.5	22 513	-1 513c	
13 470	34 571	82.06	-104.81	48.04	115.3	0.1646	-0.0546	155.3	23 516	-1 516c	
15 475	35 577	83.67	-95.9	72.37	120.15	0.17	-0.0441	142.9	26 532	-1 532c	Gm
15 480	37 589	88.25	-75.49	80.27	110.2	0.1821	-0.0422	133.2	28 542	-1 542c	
17 485	51 659	97.07	-12.46	114.2	114.88	0.2133	-0.0316	96.2	32 564	10 454	
18 490	-1 490c	96.79	-7.93	121.92	122.18	0.2153	-0.0284	93.7	33 566	12 460	max
19 495	-1 495c	96.1	-5.01	128.24	128.34	0.2166	-0.0256	92.2	33 566	12 462	
20 500	-1 500c	95.29	-1.57	133.71	133.72	0.2182	-0.0231	90.6	33 567	12 464	
22 510	-1 510c	93.2	6.83	142.11	142.27	0.2221	-0.0186	87.2	34 570	13 468	
23 520	-1 519c	91.89	11.75	148.58	149.04	0.2244	-0.0166	85.4	34 571	14 470	Ym
25 530	-1 529c	88.75	22.59	148.89	150.59	0.2299	-0.0128	81.3	34 574	14 473	
27 540	-1 539c	84.91	34.28	145.08	149.07	0.2362	-0.0091	76.7	35 578	15 475	
29 545	-1 545c	80.4	46.21	138.42	145.93	0.2433	-0.0051	71.5	36 582	15 477	
29 550	-1 549c	80.4	46.21	138.42	145.93	0.2433	-0.0051	71.5	36 582	15 477	
30 555	-1 554c	77.91	52.01	134.3	144.02	0.247	-0.0029	68.8	36 584	15 478	
32 560	-1 560c	72.44	62.83	124.9	139.81	0.255	0.0	63.2	38 590	16 480	
32 561	1 405	72.85	62.67	101.32	119.14	0.2547	-0.0258	58.2	38 590	16 480	Rm
32 562	7 435	72.61	71.29	18.38	73.62	0.2598	-0.0671	14.4	-1 486c	17 486	
32 564	10 450	72.42	77.58	-12.02	78.51	0.2635	-0.0824	351.1	-1 494c	18 494	
33 566	11 460	71.56	80.55	-21.13	83.28	0.2656	-0.087	345.3	-1 499c	19 499	
33 568	13 465	71.16	82.71	-33.7	89.31	0.2671	-0.0935	337.8	-1 513c	22 513	
34 571	13 470	69.18	85.74	-37.12	93.44	0.2701	-0.0956	336.5	-1 516c	23 516	
35 577	15 475	66.95	86.97	-48.41	99.54	0.2722	-0.1022	330.8	-1 532c	26 532	Mm
37 589	15 480	59.36	92.64	-61.51	111.2	0.2814	-0.1125	326.4	-1 542c	28 542	
51 659	17 485	32.7	51.69	-111.55	122.94	0.2729	-0.1778	294.8	10 454	32 564	
-1 490c	18 490	34.16	33.89	-110.29	115.38	0.2533	-0.1738	287.0	12 460	33 566	min
-1 495c	19 495	37.38	20.09	-105.64	107.53	0.238	-0.164	280.7	12 462	33 566	
-1 500c	20 500	40.74	5.9	-100.53	100.7	0.2242	-0.1548	273.3	12 464	33 567	
-1 510c	22 510	47.73	-22.08	-89.3	91.99	0.2013	-0.1384	256.1	13 468	34 570	
-1 519c	23 520	51.31	-35.03	-83.38	90.44	0.1925	-0.1312	247.2	14 470	34 571	Bm
-1 529c	25 530	58.38	-56.46	-71.52	91.12	0.1803	-0.1189	231.7	14 473	34 574	
-1 539c	27 540	65.09	-70.73	-60.1	92.82	0.1746	-0.1092	220.3	15 475	35 578	
-1 545c	29 545	71.28	-77.88	-49.49	92.28	0.1736	-0.1014	212.4	15 477	36 582	
-1 549c	29 550	71.28	-77.88	-49.49	92.28	0.1736	-0.1014	212.4	15 477	36 582	
-1 554c	30 555	74.15	-78.96	-44.56	90.66	0.1744	-0.0982	209.4	15 478	36 584	
-1 560c	32 560	79.44	-76.77	-35.45	84.56	0.178	-0.0928	204.7	16 480	38 590	
380	770	100.0	0.0	0.0	0.0	0.2189	-0.0763	0.0			

TUB-test chart CE26; CIE (x_{10}, y_{10}) and chroma ($A^*_{i,10}, B^*_{i,10}$)Ostwald optimal colours for illuminant P45; diagram for illuminant P45, $Y_{w,10}=100$

input: w/rgb/cmyk -> rgb

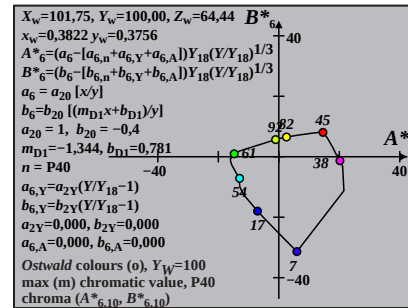
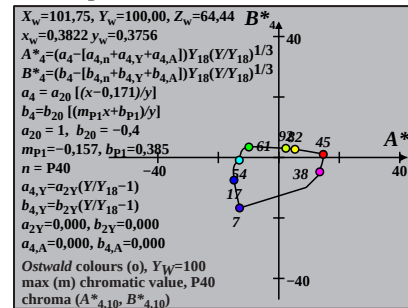
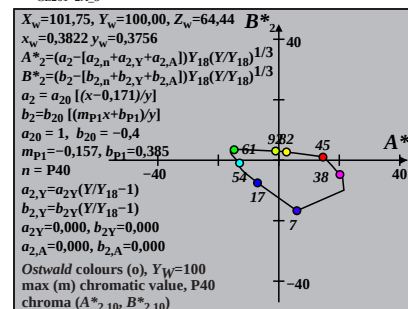
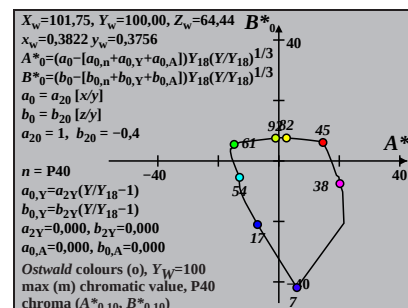
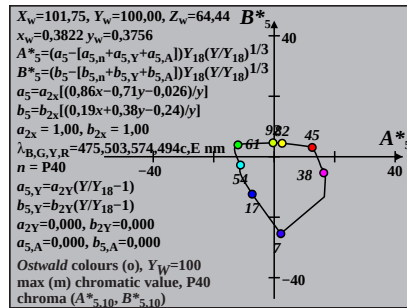
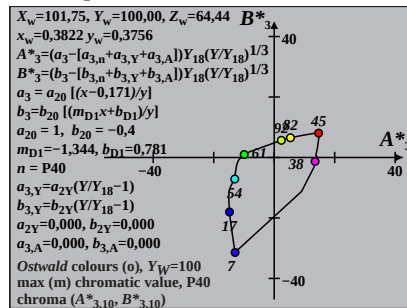
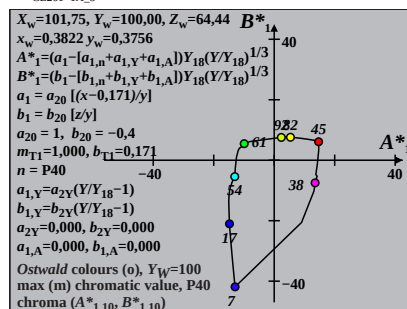
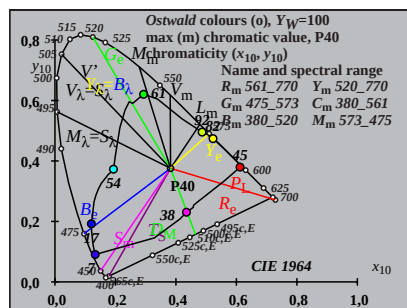


Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P40, $Y_{w,10}=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	L^*_{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	78.76	-81.38	-36.17	89.06	0.1764	-0.0883	203.9	16 481	38 591	Cm
7 435	32 564	78.94	-94.37	-14.88	95.53	0.1695	-0.0789	188.9	17 487	-1 487c	
10 450	33 565	79.08	-104.44	9.38	104.86	0.1642	-0.0682	174.8	19 495	-1 495c	
12 460	33 567	79.47	-108.07	30.19	112.21	0.1624	-0.059	164.3	21 505	-1 505c	
12 465	33 568	80.28	-105.82	31.58	110.44	0.1641	-0.0585	163.3	21 506	-1 506c	
14 470	34 571	80.97	-103.83	54.72	117.37	0.1656	-0.0486	152.2	24 521	-1 521c	
15 475	35 576	82.65	-95.97	68.11	117.68	0.1706	-0.0433	144.6	26 531	-1 531c	Gm
16 480	37 585	86.0	-79.0	83.66	115.06	0.1807	-0.0379	133.3	28 542	-1 542c	
17 485	42 611	92.93	-38.27	104.63	111.41	0.2024	-0.032	110.0	31 558	-1 558c	
17 490	-1 489c	97.69	-7.78	112.84	113.11	0.2168	-0.0306	93.9	33 566	11 458	max
19 495	-1 495c	96.55	-2.94	126.74	126.77	0.219	-0.025	91.3	33 568	12 463	
20 500	-1 500c	95.8	0.22	132.44	132.44	0.2204	-0.0226	89.9	33 569	13 465	
22 510	-1 510c	93.86	8.05	141.35	141.57	0.2241	-0.0183	86.7	34 571	13 469	
23 520	-1 519c	92.64	12.68	144.81	145.37	0.2263	-0.0163	84.9	34 572	14 471	Ym
25 530	-1 529c	89.67	22.97	150.56	152.31	0.2314	-0.0126	81.3	35 575	14 474	
28 540	-1 540c	83.91	40.03	144.07	149.53	0.2408	-0.007	74.4	36 581	15 477	
28 545	-1 544c	83.91	40.03	144.07	149.53	0.2408	-0.007	74.4	36 581	15 477	
30 550	-1 550c	79.24	51.51	136.59	145.98	0.248	-0.0029	69.3	37 585	15 479	
31 555	-1 555c	76.66	57.02	132.17	143.94	0.2518	0.0	66.6	37 587	16 480	
31 560	-1 559c	76.66	57.02	132.17	143.94	0.2518	0.0	66.6	37 587	16 480	
32 563	0 405	73.21	63.62	119.59	135.46	0.2568	-0.0176	61.9	38 591	16 481	Rm
32 564	7 435	73.01	70.68	21.35	73.84	0.2609	-0.0622	16.8	-1 487c	17 487	
33 565	10 450	72.84	75.76	-9.53	76.35	0.2639	-0.0768	352.8	-1 495c	19 495	
33 567	12 460	72.4	78.54	-24.87	82.38	0.2658	-0.0841	342.4	-1 505c	21 505	
33 568	12 465	71.44	80.12	-26.52	84.39	0.2672	-0.085	341.6	-1 506c	21 506	
34 571	14 470	70.59	81.46	-38.07	89.92	0.2684	-0.0908	334.9	-1 521c	24 521	
35 576	15 475	68.39	83.26	-45.25	94.77	0.2708	-0.0948	331.4	-1 531c	26 531	Mm
37 585	16 480	63.36	85.37	-56.42	102.33	0.2753	-0.1021	326.5	-1 542c	28 542	
42 611	17 485	48.5	77.13	-83.88	113.95	0.2815	-0.1269	312.5	-1 558c	31 558	
-1 489c	17 490	29.03	40.0	-117.45	124.07	0.2658	-0.1818	288.8	11 458	33 566	min
-1 495c	19 495	35.33	13.24	-108.93	109.73	0.2335	-0.1614	276.9	12 463	33 568	
-1 500c	20 500	38.69	-0.95	-103.87	103.87	0.2194	-0.152	269.4	13 465	33 569	
-1 510c	22 510	45.72	-29.0	-92.66	97.1	0.1963	-0.1353	252.6	13 469	34 571	
-1 519c	23 520	49.34	-41.96	-86.71	96.33	0.1875	-0.128	244.1	14 471	34 572	Bm
-1 529c	25 530	56.5	-63.25	-74.72	97.9	0.1757	-0.1156	229.7	14 474	35 575	
-1 540c	28 540	66.6	-81.34	-57.53	99.63	0.17	-0.1015	215.2	15 477	36 581	
-1 544c	28 545	66.6	-81.34	-57.53	99.63	0.17	-0.1015	215.2	15 477	36 581	
-1 550c	30 550	72.66	-84.53	-47.12	96.78	0.1716	-0.0946	209.1	15 479	37 585	
-1 555c	31 555	75.48	-83.79	-42.27	93.85	0.1735	-0.0917	206.7	16 480	37 587	
-1 559c	31 560	75.48	-83.79	-42.27	93.85	0.1735	-0.0917	206.7	16 480	37 587	
380	770	100.0	0.0	0.0	0.0	0.2203	-0.0723	0.0			

TUB-test chart CE26; CIE (x_{10}, y_{10}) and chroma ($A^*_{i,10}, B^*_{i,10}$)
Ostwald optimal colours for illuminant P40; diagram for illuminant P40, $Y_{w,10}=100$

input: w/rgb/cmyk -> rgb

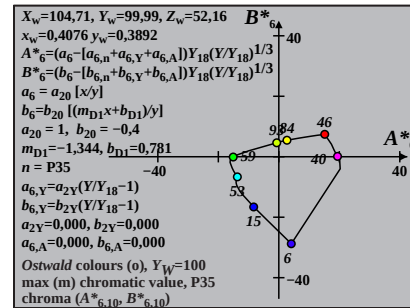
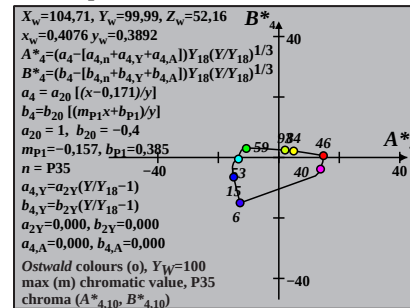
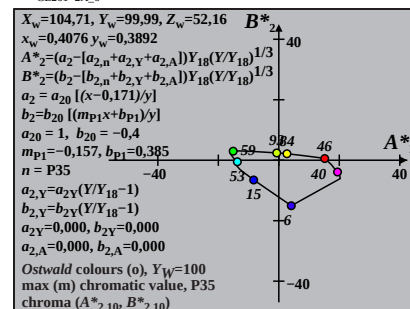
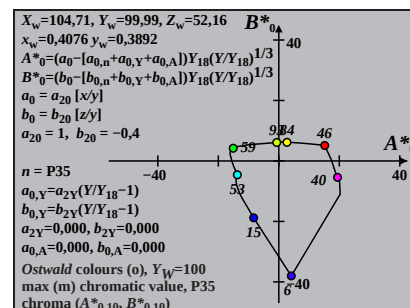
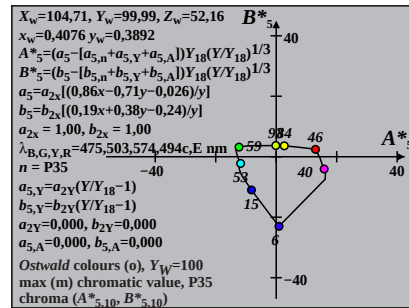
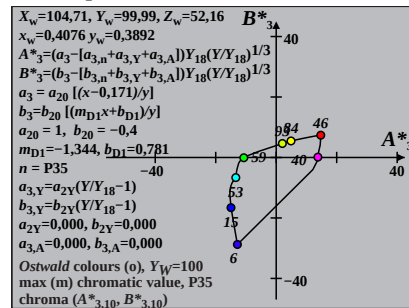
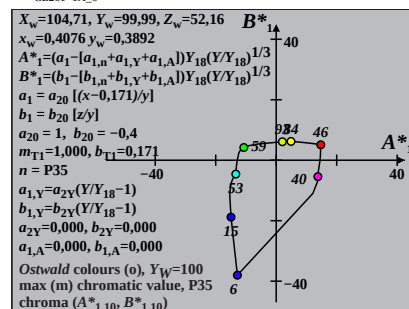
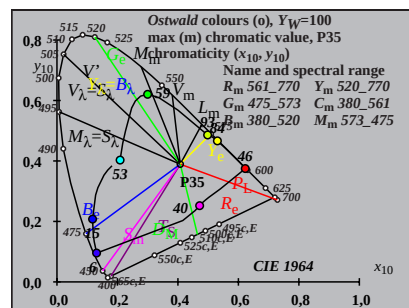


Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P35, $Y_{w,10}=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	L^*_{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	78.31	-85.31	-36.48	92.78	0.1757	-0.0825	203.1	16 484	38 594	Cm
7 435	33 566	78.47	-94.47	-17.28	96.04	0.1708	-0.0745	190.3	17 488	58 694	
10 450	33 567	78.59	-102.18	6.01	102.36	0.1667	-0.0649	176.6	19 496	-1 496c	
12 460	33 568	78.91	-105.12	26.27	108.36	0.1653	-0.0565	165.9	21 505	-1 505c	
12 465	34 570	79.58	-103.35	27.41	106.92	0.1666	-0.0562	165.1	21 506	-1 506c	
14 470	34 572	80.12	-101.58	50.05	113.24	0.1679	-0.047	153.7	24 521	-1 521c	
14 475	35 576	81.83	-95.91	53.01	109.58	0.1718	-0.0462	151.0	24 524	-1 524c	Gm
16 480	36 583	84.1	-82.78	77.15	113.16	0.1797	-0.0372	137.0	28 540	-1 540c	
17 485	39 598	89.13	-56.4	94.89	110.39	0.1947	-0.0321	120.7	30 552	-1 552c	
17 490	-1 489c	98.07	-5.24	110.3	110.43	0.2201	-0.0295	92.7	33 568	11 459	max
18 495	-1 494c	97.61	-3.33	117.88	117.93	0.2209	-0.0268	91.6	33 569	12 461	
19 500	-1 499c	97.06	-0.97	124.63	124.63	0.222	-0.0242	90.4	34 570	12 464	
22 510	-1 510c	94.63	8.97	140.15	140.44	0.2266	-0.0178	86.3	34 572	14 470	
24 520	-1 520c	92.22	17.88	152.92	153.97	0.231	-0.0141	83.3	35 575	14 473	Ym
26 530	-1 530c	89.13	28.04	151.33	153.9	0.2362	-0.0105	79.4	35 578	15 476	
27 540	-1 539c	87.32	33.49	149.27	152.98	0.2392	-0.0088	77.3	36 580	15 478	
28 545	-1 544c	85.34	39.06	146.54	151.66	0.2423	-0.0069	75.0	36 581	15 479	
30 550	-1 550c	80.87	50.2	139.4	148.17	0.2492	-0.0028	70.1	37 586	16 481	
31 555	-1 555c	78.38	55.61	135.14	146.14	0.2529	0.0	67.6	37 588	16 482	
32 560	-1 560c	75.72	60.76	130.55	143.99	0.2566	0.0	65.0	38 591	16 483	
33 566	1 405	73.72	64.5	106.75	124.72	0.2596	-0.0208	58.8	38 594	16 484	Rm
33 566	7 435	73.54	69.42	25.25	73.87	0.2625	-0.0563	19.9	58 694	17 488	
33 567	10 450	73.4	73.3	-6.23	73.56	0.2648	-0.0701	355.1	-1 496c	19 496	
33 568	12 460	73.04	75.54	-22.01	78.68	0.2662	-0.077	343.7	-1 505c	21 505	
34 570	12 465	72.27	76.77	-23.33	80.24	0.2673	-0.0777	343.0	-1 506c	21 506	
34 572	14 470	71.63	77.64	-35.08	85.19	0.2682	-0.083	335.6	-1 521c	24 521	
35 576	14 475	69.48	80.4	-38.79	89.27	0.271	-0.0851	334.2	-1 524c	24 524	Mm
36 583	16 480	66.33	80.67	-50.54	95.19	0.273	-0.0914	327.9	-1 540c	28 540	
39 598	17 485	57.62	79.64	-67.55	104.43	0.2783	-0.1033	319.6	-1 552c	30 552	
-1 489c	17 490	26.49	31.64	-121.22	125.29	0.2609	-0.1791	284.6	11 459	33 568	min
-1 494c	18 495	29.54	18.78	-117.45	118.94	0.2438	-0.1683	279.0	12 461	33 569	
-1 499c	19 500	32.74	5.09	-113.02	113.14	0.2278	-0.1581	275.2	12 464	34 570	
-1 510c	22 510	43.15	-37.11	-96.93	103.79	0.19	-0.1315	249.0	14 470	34 572	
-1 520c	24 520	50.47	-61.48	-84.89	104.82	0.1747	-0.1173	234.0	14 473	35 575	Bm
-1 530c	26 530	57.62	-78.7	-72.86	107.25	0.1672	-0.1061	222.7	15 476	35 578	
-1 539c	27 540	61.09	-84.44	-66.98	107.78	0.1659	-0.1014	218.4	15 478	36 580	
-1 544c	28 545	64.43	-88.29	-61.27	107.47	0.1658	-0.0972	214.7	15 479	36 581	
-1 550c	30 550	70.71	-90.76	-50.5	103.87	0.1684	-0.0902	209.0	16 481	37 586	
-1 555c	31 555	73.64	-89.66	-45.45	100.52	0.1708	-0.0872	206.8	16 482	37 588	
-1 560c	32 560	76.42	-87.19	-40.64	96.2	0.1737	-0.0846	204.9	16 483	38 591	
380	770	100.0	0.0	0.0	0.0	0.2224	-0.0674	0.0			

TUB-test chart CE26; CIE (x_{10}, y_{10}) and chroma ($A^*_{i,10}, B^*_{i,10}$)
Ostwald optimal colours for illuminant P35; diagram for illuminant P35, $Y_{w,10}=100$

input: w/rgb/cmyk -> rgb

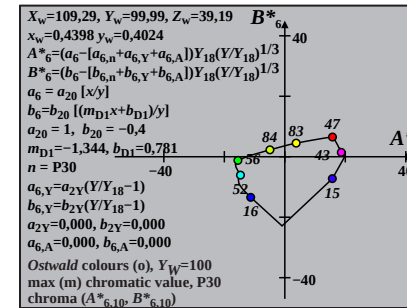
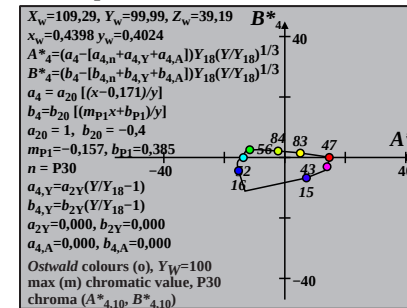
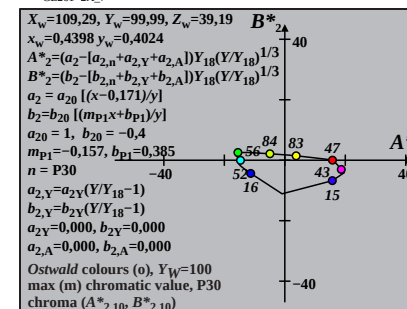
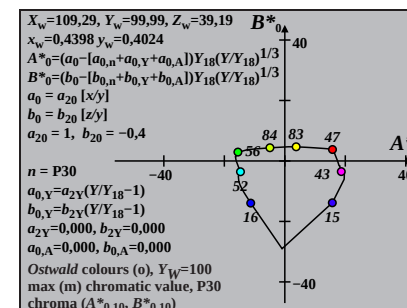
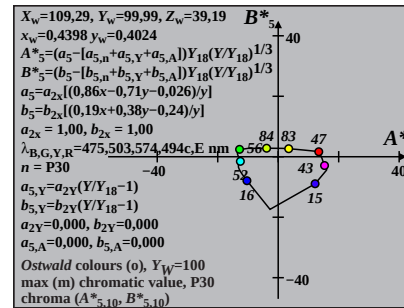
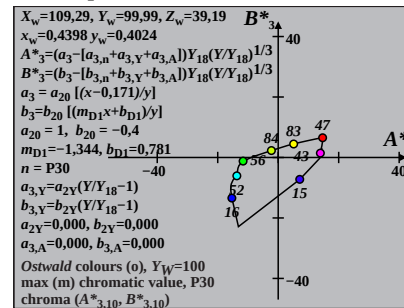
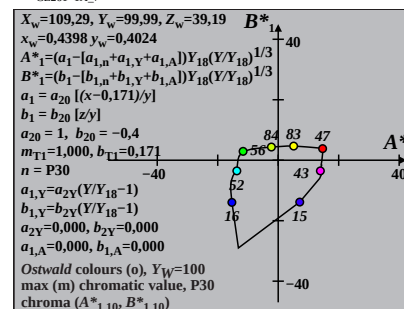
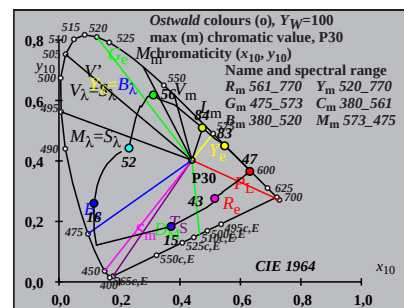


Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P30, $Y_{w,10}=100$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	L^*_{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	77.69	-87.97	-37.71	95.72	0.1765	-0.0756	203.2	17 486	39 596	Cm
6 435	33 569	77.86	-92.29	-25.53	95.76	0.1741	-0.0709	195.4	17 489	43 615	
9 450	34 570	78.02	-97.46	-6.47	97.67	0.1713	-0.0637	183.8	18 494	-1 494c	
12 460	34 571	78.16	-101.25	21.07	103.42	0.1693	-0.0533	168.2	21 505	-1 505c	
13 465	34 572	78.47	-100.73	32.19	105.75	0.1698	-0.0491	162.2	22 512	-1 512c	
14 470	34 573	79.07	-98.6	43.97	107.97	0.1713	-0.0448	155.9	24 520	-1 520c	
14 475	35 576	80.38	-94.46	46.23	105.17	0.1743	-0.0442	153.9	24 523	-1 523c	Gm
15 480	36 581	82.37	-86.27	60.04	105.11	0.1797	-0.0395	145.1	26 534	-1 534c	
16 485	38 590	85.9	-70.37	75.89	103.49	0.1895	-0.0348	132.8	29 546	-1 546c	
18 490	44 620	93.88	-24.98	107.21	110.09	0.2137	-0.0265	103.1	32 564	-1 564c	max
19 495	-1 495c	97.63	0.69	121.53	121.54	0.226	-0.0232	89.6	34 572	13 465	
20 500	-1 500c	97.06	3.12	127.84	127.88	0.2271	-0.021	88.6	34 572	13 467	
21 510	-1 509c	96.36	5.99	133.38	133.52	0.2284	-0.019	87.4	34 573	13 469	
23 520	-1 519c	94.54	13.12	142.51	143.12	0.2319	-0.0154	84.7	35 575	14 473	Ym
26 530	-1 530c	90.58	26.62	153.94	156.23	0.2387	-0.0102	80.1	35 579	15 478	
28 540	-1 540c	87.08	36.94	149.57	154.07	0.2444	-0.0067	76.1	36 583	16 481	
29 545	-1 545c	85.08	42.27	146.49	152.47	0.2475	-0.0048	73.9	37 585	16 482	
30 550	-1 550c	82.9	47.6	142.9	150.62	0.2508	-0.0028	71.5	37 587	16 483	
31 555	-1 555c	80.54	52.85	138.87	148.59	0.2543	0.0	69.1	37 589	16 484	
32 560	-1 560c	78.0	57.91	134.48	146.42	0.2579	0.0	66.7	38 592	17 485	
33 569	1 405	74.4	64.23	110.76	128.04	0.2628	-0.0176	59.8	39 596	17 486	Rm
33 569	6 435	74.2	66.75	43.06	79.44	0.2644	-0.0443	32.8	43 615	17 489	
34 570	9 450	74.04	69.55	7.72	69.98	0.2661	-0.0582	6.3	-1 494c	18 494	
34 571	12 460	73.88	71.64	-18.07	73.88	0.2674	-0.0684	345.8	-1 505c	21 505	
34 572	13 465	73.54	72.3	-24.96	76.49	0.2679	-0.0712	340.9	-1 512c	22 512	
34 573	14 470	72.86	73.07	-31.24	79.47	0.2687	-0.0738	336.8	-1 520c	24 520	
35 576	14 475	71.31	74.98	-33.9	82.29	0.2706	-0.0751	335.6	-1 523c	24 523	Mm
36 581	15 480	68.76	76.86	-42.23	87.7	0.2731	-0.079	331.2	-1 534c	26 534	
38 590	16 485	63.52	78.6	-54.24	95.5	0.2774	-0.0855	325.3	-1 546c	29 546	
44 620	18 490	45.66	60.44	-88.95	107.54	0.277	-0.1126	304.1	-1 564c	32 564	min
-1 495c	19 495	29.41	-4.43	-118.22	118.3	0.2205	-0.1539	267.8	13 465	34 572	
-1 500c	20 500	32.74	-18.49	-113.42	114.92	0.2057	-0.144	260.7	13 467	34 572	
-1 509c	21 510	36.21	-32.63	-108.14	112.95	0.1929	-0.1349	253.2	13 469	34 573	
-1 519c	23 520	43.48	-59.17	-96.51	113.21	0.1735	-0.119	238.4	14 473	35 575	Bm
-1 530c	26 530	54.49	-87.01	-78.22	117.0	0.161	-0.1007	221.9	15 478	35 579	
-1 540c	28 540	61.5	-95.77	-66.3	116.48	0.1609	-0.0917	214.6	16 481	36 583	
-1 545c	29 545	64.83	-97.41	-60.6	114.72	0.1625	-0.0879	211.8	16 482	37 585	
-1 550c	30 550	68.04	-97.4	-55.1	111.9	0.1649	-0.0846	209.4	16 483	37 587	
-1 555c	31 555	71.12	-95.9	-49.79	108.06	0.168	-0.0816	207.4	16 484	37 589	
-1 560c	32 560	74.06	-93.06	-44.72	103.25	0.1715	-0.0789	205.6	17 485	38 592	
380	770	100.0	0.0	0.0	0.0	0.2256	-0.0613	0.0			

TUB-test chart CE26; CIE (x_{10}, y_{10}) and chroma ($A^*_{i,10}, B^*_{i,10}$)
Ostwald optimal colours for illuminant P30; diagram for illuminant P30, $Y_{w,10}=100$

input: w/rgb/cmyk -> rgb



Ostwald optimal colours (o) of maximum (m) $C_{AB,10}$ for P25, $Y_{w,10}=100$, $Y_m=520_770$

i	λ_1	i_2	λ_2	L^*_{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	76.74	-88.67	-39.52	97.08	0.1794	-0.0667	204.0	18	490	39	599	Cm
6	435	34	573	76.87	-90.9	-29.23	95.49	0.1781	-0.0633	197.8	18	492	42	613	
9	450	34	573	76.98	-93.84	-12.03	94.61	0.1765	-0.0575	187.3	19	497	-1	497c	
12	460	34	574	77.09	-96.22	13.91	97.22	0.1752	-0.0489	171.7	21	506	-1	506c	
12	465	35	575	77.44	-95.35	14.53	96.46	0.1759	-0.0487	171.3	21	507	-1	507c	
13	470	35	576	77.89	-94.13	25.51	97.53	0.1769	-0.0451	164.8	22	513	-1	513c	
15	475	35	577	78.39	-91.22	47.07	102.65	0.1788	-0.038	152.7	25	527	-1	527c	Gm
16	480	36	580	79.68	-85.73	59.0	104.07	0.1826	-0.0343	145.4	27	536	-1	536c	
17	485	37	586	81.87	-76.24	71.9	104.79	0.1888	-0.0307	136.6	28	544	-1	544c	
18	490	39	597	86.33	-56.72	88.14	104.82	0.2009	-0.0267	122.7	31	555	-1	555c	max
19	495	58	690	98.2	1.38	116.6	116.61	0.2312	-0.0218	89.3	35	575	13	466	
20	500	-1	500c	97.82	3.71	123.45	123.51	0.2323	-0.0198	88.2	35	575	13	469	
21	510	-1	509c	97.25	6.04	129.48	129.62	0.2334	-0.018	87.3	35	576	14	471	
24	520	-1	520c	94.76	15.55	144.34	145.17	0.238	-0.013	83.8	35	579	15	477	Ym
26	530	-1	530c	92.35	23.71	157.16	158.94	0.2422	-0.0098	81.4	36	581	16	481	
27	540	-1	539c	90.88	28.25	155.55	158.1	0.2447	-0.0082	79.7	36	583	16	482	
28	545	-1	544c	89.25	33.03	153.34	156.86	0.2473	-0.0064	77.8	37	585	16	484	
29	550	-1	549c	87.45	37.95	150.58	155.29	0.2501	-0.0046	75.8	37	586	17	485	
31	555	-1	555c	83.29	47.95	143.61	151.41	0.2564	0.0	71.5	38	591	17	487	
31	560	-1	559c	83.29	47.95	143.61	151.41	0.2564	0.0	71.5	38	591	17	487	
34	573	1	405	75.39	62.21	126.45	140.93	0.2669	-0.0139	63.8	39	599	18	490	Rm
34	573	6	435	75.26	63.55	50.75	81.33	0.2678	-0.0362	38.6	42	613	18	492	
34	573	9	450	75.14	65.18	14.85	66.85	0.2688	-0.0484	12.8	-1	497c	19	497	
34	574	12	460	75.03	66.51	-12.33	67.64	0.2696	-0.0577	349.4	-1	506c	21	506	
35	575	12	465	74.65	67.05	-12.98	68.3	0.2701	-0.058	349.0	-1	507c	21	507	
35	576	13	470	74.18	67.67	-20.65	70.76	0.2707	-0.0606	343.0	-1	513c	22	513	
35	577	15	475	73.63	67.65	-31.64	74.68	0.2709	-0.0645	334.9	-1	527c	25	527	Mm
36	580	16	480	72.15	68.4	-37.56	78.04	0.272	-0.0667	331.2	-1	536c	27	536	
37	586	17	485	69.44	69.22	-44.82	82.47	0.2739	-0.0698	327.0	-1	544c	28	544	
39	597	18	490	62.81	68.93	-58.22	90.22	0.2773	-0.0765	319.8	-1	555c	31	555	min
58	690	19	495	25.56	-11.14	-123.94	124.44	0.2161	-0.1462	264.8	13	466	35	575	
-1	500c	20	500	28.25	-28.89	-120.44	123.86	0.1955	-0.1381	256.5	13	469	35	575	
-1	509c	21	510	31.68	-42.79	-115.39	123.07	0.1824	-0.1287	249.6	14	471	35	576	
-1	520c	24	520	42.68	-79.67	-97.97	126.28	0.1578	-0.1054	230.8	15	477	35	579	Bm
-1	530c	26	530	50.12	-95.22	-85.65	128.08	0.1534	-0.0938	221.9	16	481	36	581	
-1	539c	27	540	53.79	-99.98	-79.48	127.73	0.1538	-0.0889	218.4	16	482	36	583	
-1	544c	28	545	57.37	-102.87	-73.4	126.38	0.1555	-0.0846	215.5	16	484	37	585	
-1	549c	29	550	60.85	-104.03	-67.46	123.99	0.1581	-0.0808	212.9	17	485	37	586	
-1	555c	31	555	67.49	-101.76	-56.04	116.17	0.1653	-0.0744	208.8	17	487	38	591	
-1	559c	31	560	67.49	-101.76	-56.04	116.17	0.1653	-0.0744	208.8	17	487	38	591	
380	770	100.0	0.0	0.0	0.0	0.0	0.2305	-0.0535	0.0						

TUB-test chart CE26; CIE (x_{10}, y_{10}) and chroma ($A^*_{i,10}, B^*_{i,10}$) input: w/rgb/cmyk $\rightarrow$ rgb
Ostwald optimal colours for illuminant P25; diagram for illuminant P25, $Y_{w,10}=100$

