

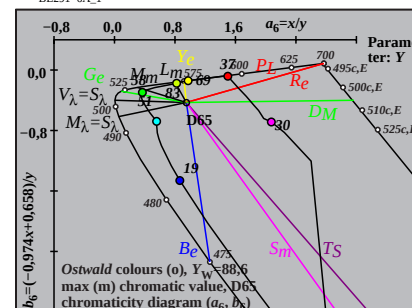
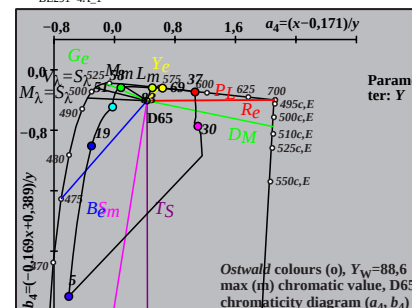
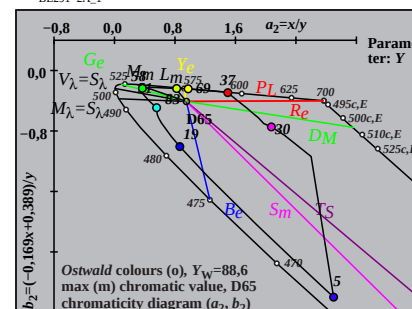
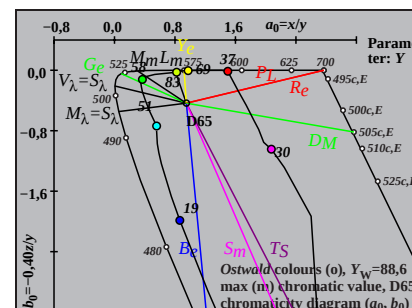
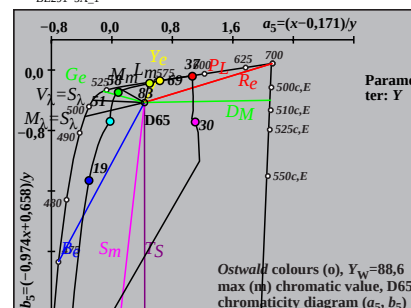
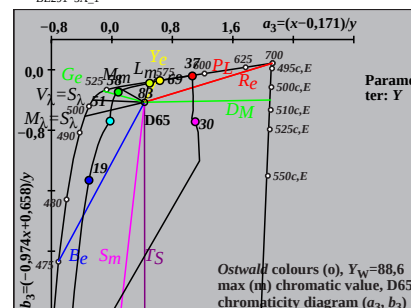
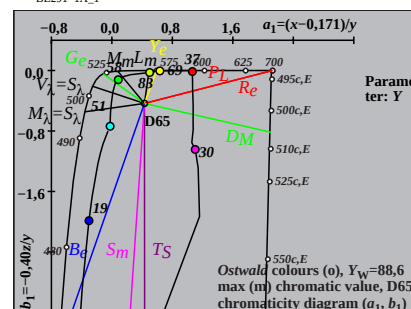
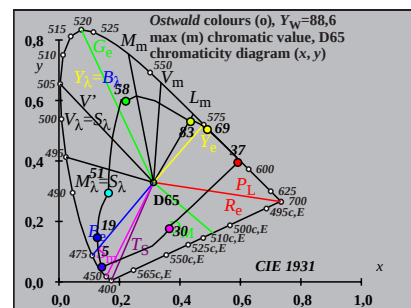
Ostwald optimal colours (o) of maximum (m) C_{AB} for D65, $Y_w=88.6$, $Y_m=520.770$

i_1, λ_1	i_2, λ_2	X	Y	Z	x	y	z	h_{xy}	i_d, λ_d	i_c, λ_c	Code
0 405	32 561	28.85	51.56	95.79	0.1637	0.2926	0.5436	193.7	16 483	37 589	Cm
6 435	32 562	25.77	52.08	78.6	0.1647	0.3328	0.5023	178.4	17 486	42 610	
10 450	32 563	20.31	52.64	46.4	0.1702	0.441	0.3887	141.8	19 496	-1 496c	
12 460	33 565	18.49	53.43	30.14	0.1812	0.5234	0.2952	124.0	21 505	-1 505c	
12 465	33 567	19.45	54.62	30.14	0.1866	0.5241	0.2892	122.8	21 506	-1 506c	
14 470	33 569	19.02	55.56	17.7	0.206	0.602	0.1918	111.3	24 520	-1 520c	
15 475	34 573	21.05	57.84	13.21	0.2285	0.6279	0.1434	105.6	25 528	-1 528c	Gm
16 480	36 580	25.69	61.97	9.79	0.2636	0.6358	0.1005	99.0	27 537	-1 537c	
17 485	39 595	37.3	69.76	7.29	0.3261	0.6099	0.0638	87.2	29 548	-1 548c	
18 490	-1 490c	68.29	83.1	5.43	0.4354	0.5298	0.0346	58.5	33 565	11 459	max
19 495	-1 495c	68.25	81.77	4.0	0.4431	0.5308	0.026	57.1	33 566	12 462	
20 500	-1 500c	68.23	80.1	2.89	0.4511	0.5296	0.0191	55.3	33 567	12 464	
22 510	-1 510c	68.12	75.54	1.45	0.4694	0.5205	0.01	50.7	33 569	13 469	
23 520	-1 519c	67.91	72.63	1.03	0.4797	0.513	0.0072	47.7	34 570	14 471	Ym
25 530	-1 529c	66.91	65.59	0.51	0.503	0.4931	0.0038	40.7	34 573	15 475	
27 540	-1 539c	64.9	57.49	0.23	0.5292	0.4688	0.0019	32.8	35 577	15 478	
28 545	-1 544c	63.48	53.27	0.16	0.5429	0.4556	0.0014	28.7	35 579	15 479	
29 550	-1 549c	61.75	48.96	0.11	0.5571	0.4417	0.001	24.7	36 582	16 480	
30 555	-1 554c	59.71	44.65	0.08	0.5716	0.4274	0.0008	20.8	36 584	16 481	
32 560	-1 560c	54.73	36.33	0.05	0.6007	0.3987	0.0005	13.6	37 589	16 483	
32 561	0 405	66.18	48.43	13.1	0.5182	0.3792	0.1025	13.7	37 589	16 483	Rm
32 562	6 435	69.27	47.91	30.28	0.4697	0.3249	0.2053	358.4	42 610	17 486	
32 563	10 450	74.73	47.35	62.49	0.4048	0.2565	0.3385	321.8	-1 496c	19 496	
33 565	12 460	76.54	46.56	78.74	0.3792	0.2306	0.3901	304.1	-1 505c	21 505	
33 567	12 465	75.59	45.37	78.74	0.3785	0.2271	0.3942	302.9	-1 506c	21 506	
33 569	14 470	76.02	44.43	91.18	0.3592	0.2099	0.4308	291.3	-1 520c	24 520	
34 573	15 475	73.98	42.15	95.67	0.3492	0.199	0.4516	285.7	-1 528c	25 528	Mm
36 580	16 480	69.34	38.02	99.09	0.3358	0.1841	0.4799	279.1	-1 537c	27 537	
39 595	17 485	57.73	30.23	101.59	0.3045	0.1594	0.5359	267.2	-1 548c	29 548	
-1 490c	18 490	26.74	16.89	103.45	0.1818	0.1148	0.7032	238.5	11 459	33 565	min
-1 495c	19 495	26.79	18.22	104.88	0.1787	0.1215	0.6996	237.1	12 462	33 566	
-1 500c	20 500	26.81	19.89	105.99	0.1755	0.1302	0.6941	235.4	12 464	33 567	
-1 510c	22 510	26.92	24.45	107.43	0.1695	0.1539	0.6765	230.7	13 469	33 569	
-1 519c	23 520	27.12	27.36	107.85	0.167	0.1685	0.6643	227.7	14 471	34 570	Bm
-1 529c	25 530	28.12	34.4	108.38	0.1645	0.2012	0.6341	220.7	15 475	34 573	
-1 539c	27 540	30.13	42.5	108.65	0.1662	0.2344	0.5993	212.8	15 478	35 577	
-1 544c	28 545	31.55	46.72	108.72	0.1687	0.2498	0.5813	208.8	15 479	35 579	
-1 549c	29 550	33.29	51.03	108.77	0.1723	0.2643	0.5632	204.7	16 480	36 582	
-1 554c	30 555	35.32	55.34	108.8	0.1771	0.2774	0.5454	200.8	16 481	36 584	
-1 560c	32 560	40.31	63.66	108.84	0.1894	0.2991	0.5114	193.6	16 483	37 589	
380	770	84.19	88.59	96.46	0.3127	0.329	0.3582	0.0			

TUB-test chart BE29; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant D65; diagram for illuminant D65, $Y_w=88.6$

input: w/rgb/cmyk -> rgb



TUB registration: 20170801-BE29/BE29L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

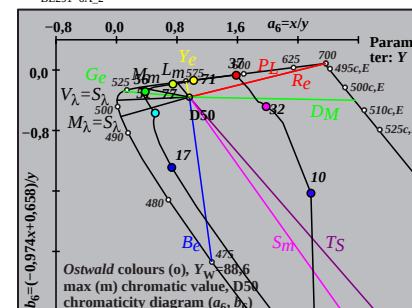
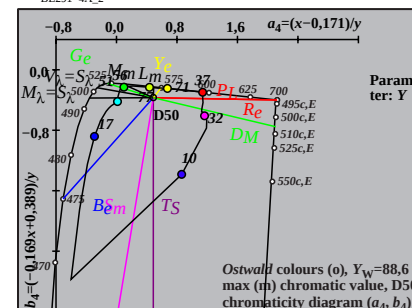
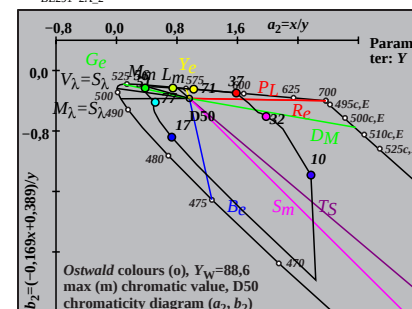
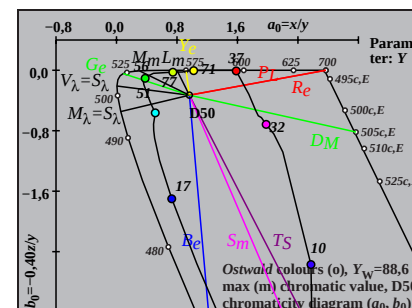
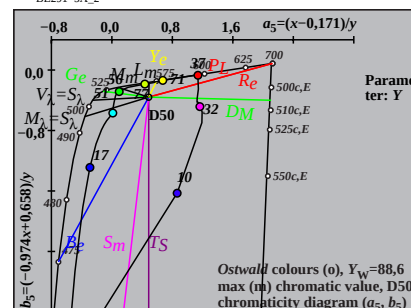
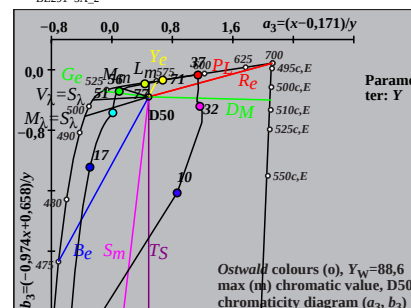
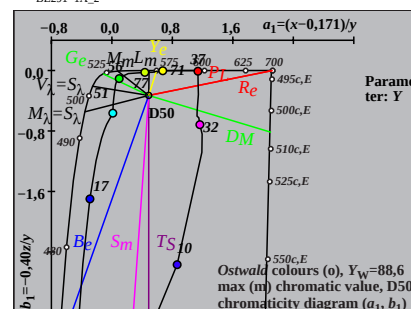
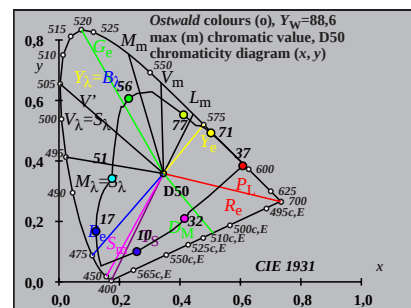
Ostwald optimal colours (o) of maximum (m) C_{AB} for D50, $Y_w=88.6$, $Y_m=520.770$

i_1, λ_1	i_2, λ_2	X	Y	Z	x	y	z	h_{xy}	i_d, λ_d	i_c, λ_c	Code
1 405	32 564	26.24	51.21	72.29	0.1752	0.3419	0.4827	185.5	17 486	38 592	Cm
7 435	33 565	23.33	51.54	56.25	0.1779	0.393	0.4289	168.3	18 490	46 634	
10 450	33 566	20.4	51.98	37.62	0.1854	0.4725	0.342	144.5	19 497	-1 497c	
12 460	33 567	19.02	52.53	25.04	0.1969	0.5437	0.2592	128.7	21 506	-1 506c	
13 465	33 568	18.88	53.11	19.63	0.206	0.5796	0.2143	122.2	22 511	-1 511c	
14 470	34 570	19.36	54.07	15.11	0.2187	0.6106	0.1706	116.7	23 519	-1 519c	
15 475	34 573	20.87	55.72	11.43	0.237	0.6329	0.1299	111.5	25 527	-1 527c	Gm
15 480	35 578	24.45	59.28	11.44	0.2569	0.6227	0.1202	108.5	26 531	-1 531c	
17 485	37 587	31.29	64.0	6.49	0.3074	0.6287	0.0637	98.0	28 544	-1 544c	
18 490	44 620	58.12	77.97	4.9	0.4122	0.5529	0.0348	71.0	32 561	-1 561c	max
19 495	-1 495c	73.62	82.96	3.66	0.4594	0.5177	0.0228	54.4	33 568	12 463	
20 500	-1 500c	73.61	81.49	2.68	0.4665	0.5164	0.0169	52.5	33 569	13 466	
22 510	-1 510c	73.51	77.37	1.37	0.4827	0.5081	0.009	47.4	34 571	14 471	Ym
23 520	-1 519c	73.32	74.67	0.99	0.4921	0.5012	0.0066	44.2	34 572	14 473	
25 530	-1 529c	72.37	68.03	0.49	0.5136	0.4828	0.0035	36.4	35 575	15 477	
27 540	-1 539c	70.43	60.24	0.23	0.538	0.4601	0.0018	27.8	35 579	16 480	
28 545	-1 544c	69.05	56.11	0.16	0.5509	0.4477	0.0013	23.4	36 581	16 481	
29 550	-1 549c	67.34	51.87	0.11	0.5643	0.4346	0.0009	19.1	36 583	16 483	
30 555	-1 554c	65.31	47.59	0.08	0.578	0.4211	0.0007	15.0	37 585	16 484	
32 560	-1 560c	60.3	39.22	0.05	0.6055	0.3938	0.0005	7.7	38 590	17 486	
32 564	1 405	70.17	48.78	10.19	0.5433	0.3776	0.0789	5.5	38 592	17 486	Rm
33 565	7 435	73.09	48.45	26.24	0.4945	0.3278	0.1775	348.3	46 634	18 490	
33 566	10 450	76.01	48.01	44.87	0.45	0.2842	0.2656	324.5	-1 497c	19 497	
33 567	12 460	77.39	47.46	57.44	0.4245	0.2603	0.3151	308.8	-1 506c	21 506	
33 568	13 465	77.53	46.88	62.85	0.414	0.2503	0.3356	302.3	-1 511c	22 511	
34 570	14 470	77.05	45.92	67.38	0.4047	0.2412	0.3539	296.7	-1 519c	23 519	
34 573	15 475	75.55	44.27	71.05	0.3957	0.2319	0.3722	291.6	-1 527c	25 527	Mm
35 578	15 480	71.96	40.71	71.05	0.3916	0.2216	0.3867	288.5	-1 531c	26 531	
37 587	17 485	65.12	35.99	76.0	0.3676	0.2032	0.429	278.0	-1 544c	28 544	
44 620	18 490	38.29	22.02	77.58	0.2777	0.1596	0.5626	251.1	-1 561c	32 561	min
-1 495c	19 495	22.79	17.03	78.83	0.192	0.1435	0.6643	234.4	12 463	33 568	
-1 500c	20 500	22.8	18.5	79.81	0.1882	0.1528	0.6589	232.5	13 466	33 569	
-1 510c	22 510	22.91	22.62	81.11	0.1808	0.1786	0.6404	227.5	14 471	34 571	
-1 519c	23 520	23.09	25.32	81.5	0.1777	0.1948	0.6273	224.2	14 473	34 572	Bm
-1 529c	25 530	24.04	31.96	81.99	0.1742	0.2315	0.5941	216.5	15 477	35 575	
-1 539c	27 540	25.98	39.75	82.25	0.1755	0.2686	0.5558	207.8	16 480	35 579	
-1 544c	28 545	27.37	43.88	82.33	0.1782	0.2857	0.536	203.5	16 481	36 581	
-1 549c	29 550	29.07	48.12	82.37	0.1821	0.3015	0.5162	199.2	16 483	36 583	
-1 554c	30 555	31.1	52.4	82.4	0.1874	0.3158	0.4966	195.0	16 484	37 585	
-1 560c	32 560	36.11	60.77	82.44	0.2013	0.3388	0.4597	187.7	17 486	38 590	
380	770	85.42	88.59	73.08	0.3457	0.3585	0.2957	0.0			

TUB-test chart BE29; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant D50; diagram for illuminant D50, $Y_w=88.6$

input: w/rgb/cmyk -> rgb



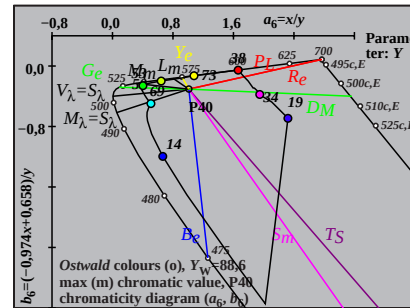
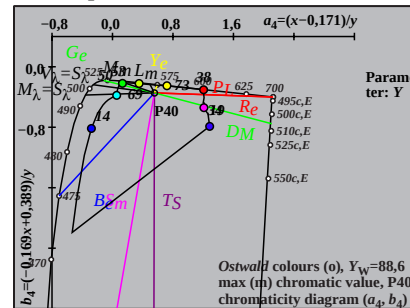
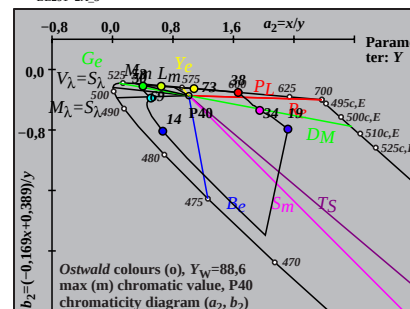
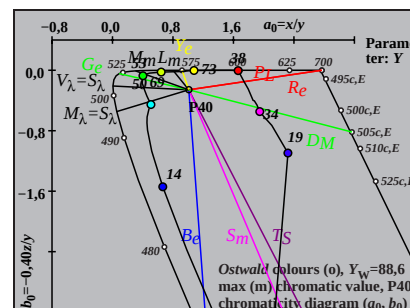
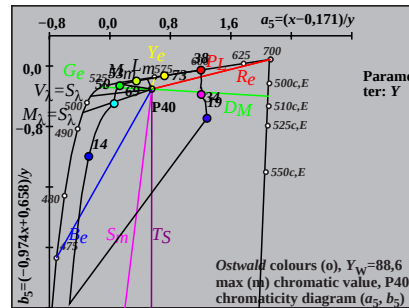
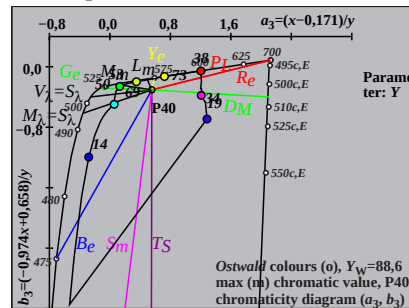
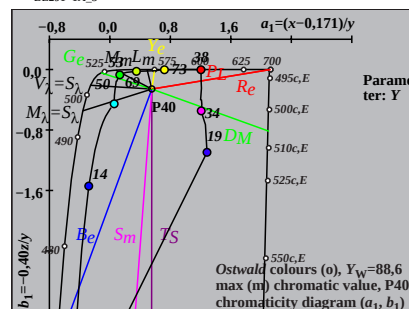
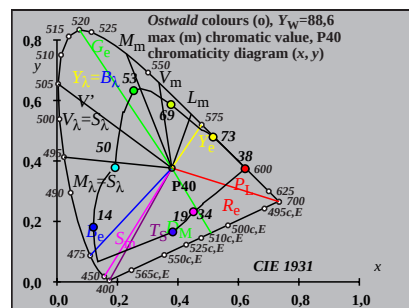
Ostwald optimal colours (o) of maximum (m) C_{AB} for P40, $Y_w=88,6$, $Y_m=520,770$

i_1, λ_1	i_2, λ_2	X	Y	Z	x	y	z	h_{xy}	i_d, λ_d	i_c, λ_c	Code
0	405	33	568	25.48	50.12	56.92	0.1922	0.3782	0.4295	179.4	17 488 38 594 Cm
7	435	33	568	22.92	50.37	42.95	0.1971	0.4333	0.3695	162.7	18 493 54 674
10	450	33	569	20.81	50.74	29.3	0.2063	0.5031	0.2905	143.8	19 499 -1 499c
12	460	34	570	19.89	51.2	20.08	0.2181	0.5615	0.2202	131.1	21 507 -1 507c
13	465	34	571	19.88	51.65	15.98	0.2271	0.5902	0.1825	125.5	22 512 -1 512c
14	470	34	572	20.36	52.42	12.49	0.2387	0.6147	0.1464	120.6	23 519 -1 519c
14	475	34	574	21.95	54.15	12.49	0.2477	0.6111	0.141	119.3	24 522 -1 522c Gm
15	480	35	578	24.49	56.54	9.64	0.2701	0.6234	0.1063	113.9	26 531 -1 531c
17	485	37	585	29.72	60.26	5.64	0.3108	0.6301	0.059	105.2	28 543 -1 543c
17	490	40	600	44.57	70.01	5.65	0.3707	0.5822	0.047	92.5	30 554 -1 554c max
19	495	-1	495c	80.24	84.05	3.24	0.4789	0.5016	0.0193	51.6	34 571 12 464
20	500	-1	500c	80.23	82.78	2.4	0.485	0.5004	0.0145	49.6	34 571 13 467
21	510	-1	509c	80.21	81.16	1.75	0.4916	0.4975	0.0107	47.2	34 572 13 469
24	520	-1	520c	79.64	73.89	0.66	0.5164	0.4792	0.0042	36.9	35 575 15 476 Ym
26	530	-1	530c	78.35	67.28	0.33	0.5368	0.4609	0.0022	28.2	35 578 16 480
27	540	-1	539c	77.33	63.58	0.23	0.5478	0.4504	0.0016	23.7	36 580 16 481
29	545	-1	545c	74.41	55.69	0.12	0.5714	0.4276	0.0009	14.9	36 584 16 484
29	550	-1	549c	74.41	55.69	0.12	0.5714	0.4276	0.0009	14.9	36 584 16 484
31	555	-1	555c	70.15	47.4	0.07	0.5963	0.403	0.0006	6.9	37 588 17 486
32	560	-1	560c	67.45	43.22	0.05	0.6091	0.3903	0.0005	3.4	38 591 17 487
33	568	0	405	75.45	49.87	7.76	0.5669	0.3747	0.0583	359.4	38 594 17 488 Rm
33	568	7	435	78.01	49.62	21.73	0.5222	0.3322	0.1454	342.7	54 674 18 493
33	569	10	450	80.12	49.25	35.38	0.4862	0.2989	0.2147	323.9	-1 499c 19 499
34	570	12	460	81.04	48.79	44.6	0.4645	0.2797	0.2557	311.1	-1 507c 21 507
34	571	13	465	81.04	48.34	48.7	0.455	0.2714	0.2734	305.5	-1 512c 22 512
34	572	14	470	80.56	47.57	52.19	0.4467	0.2638	0.2894	300.6	-1 519c 23 519
34	574	14	475	78.97	45.84	52.19	0.4461	0.259	0.2948	299.4	-1 522c 24 522 Mm
35	578	15	480	76.43	43.45	55.04	0.4369	0.2484	0.3146	294.0	-1 531c 26 531
37	585	17	485	71.2	39.73	59.04	0.4188	0.2337	0.3473	285.2	-1 543c 28 543
40	600	17	490	56.35	29.98	59.03	0.3876	0.2062	0.406	272.6	-1 554c 30 554 min
-1	495c	19	495	20.68	15.94	61.44	0.2109	0.1625	0.6264	231.6	12 464 34 571
-1	500c	20	500	20.69	17.21	62.28	0.2065	0.1718	0.6215	229.7	13 467 34 571
-1	509c	21	510	20.72	18.83	62.93	0.2021	0.1837	0.614	227.3	13 469 34 572
-1	520c	24	520	21.28	26.1	64.02	0.191	0.2342	0.5746	216.9	15 476 35 575 Bm
-1	530c	26	530	22.57	32.71	64.35	0.1886	0.2734	0.5378	208.3	16 480 35 578
-1	539c	27	540	23.59	36.41	64.45	0.1895	0.2925	0.5178	203.7	16 481 36 580
-1	545c	29	545	26.51	44.3	64.56	0.1958	0.3272	0.4769	194.9	16 484 36 584
-1	549c	29	550	26.51	44.3	64.56	0.1958	0.3272	0.4769	194.9	16 484 36 584
-1	555c	31	555	30.78	52.59	64.61	0.2079	0.3553	0.4366	186.9	17 486 37 588
-1	560c	32	560	33.47	56.77	64.63	0.2161	0.3665	0.4172	183.4	17 487 38 591
380	770	89.41	88.59	57.3	0.3799	0.3764	0.2435	0.0			

TUB-test chart BE29; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant P40; diagram for illuminant P40, $Y_w=88,6$

input: w/rgb/cmyk -> rgb



TUB registration: 20170801-BE29/BE29L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

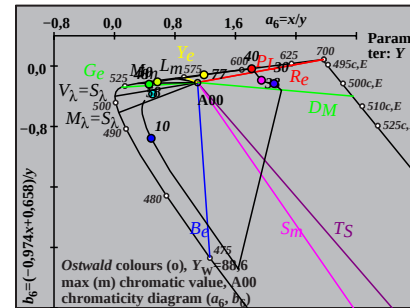
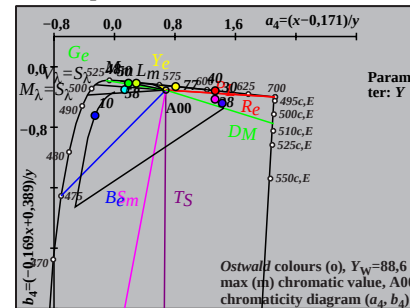
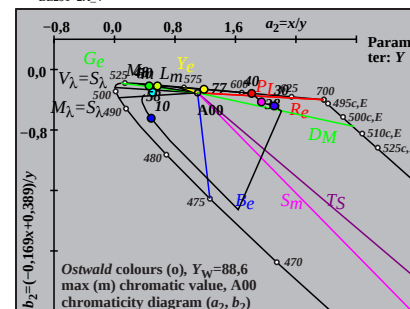
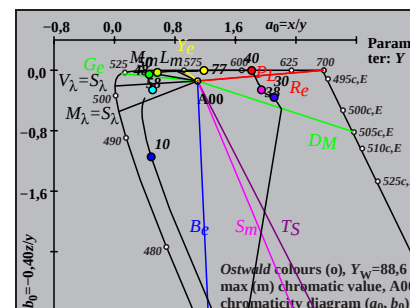
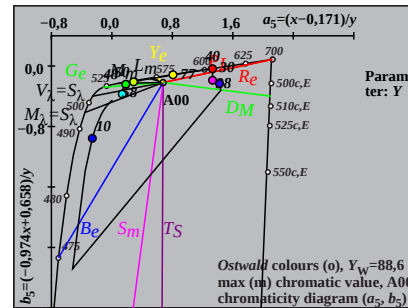
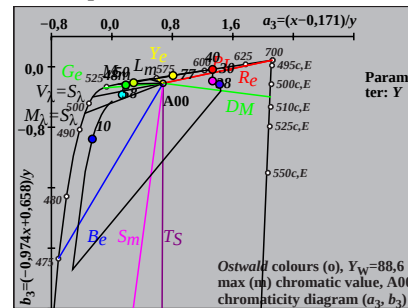
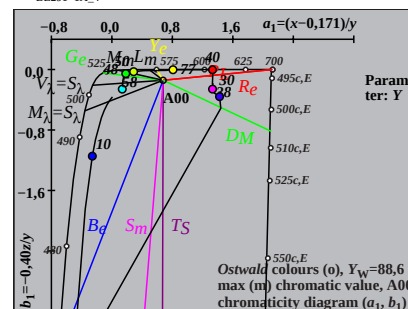
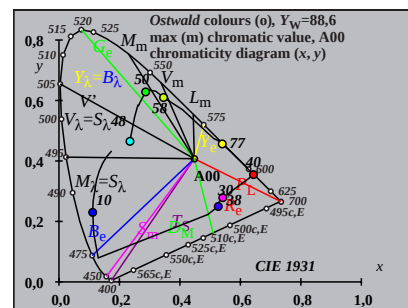
Ostwald optimal colours (o) of maximum (m) C_{AB} for A00, $Y_w=88.6$, $Y_m=520_770$

i_1, λ_1	i_2, λ_2	X	Y	Z	x	y	z	h_{xy}	i_d, λ_d	i_c, λ_c	Code
1 405	34 574	24.45	48.43	31.25	0.2347	0.465	0.3001	164.8	18 494	39 599	Cm
6 435	34 574	23.77	48.59	27.06	0.239	0.4887	0.2722	158.6	19 496	42 611	
9 450	34 574	22.82	48.83	20.66	0.2472	0.5289	0.2238	148.7	20 501	-1 501c	
12 460	35 575	21.88	49.01	13.06	0.2606	0.5837	0.1556	136.6	21 508	-1 508c	
13 465	35 575	21.91	49.25	10.67	0.2677	0.6018	0.1303	132.7	22 512	-1 512c	
13 470	35 576	22.53	49.84	10.67	0.2712	0.6001	0.1285	132.4	22 513	-1 513c	
14 475	35 577	23.21	50.59	8.56	0.2817	0.6142	0.104	128.7	23 519	-1 519c	Gm
16 480	35 579	24.42	51.55	5.34	0.3003	0.6339	0.0656	123.0	26 532	-1 532c	
17 485	36 582	27.25	53.64	4.18	0.3202	0.6305	0.0491	119.6	28 540	-1 540c	
18 490	37 588	32.93	57.57	3.26	0.3512	0.6139	0.0348	114.9	29 548	-1 548c	max
19 495	40 601	47.38	65.98	2.53	0.4088	0.5693	0.0218	103.4	31 559	-1 559c	
20 500	-1 500c	92.54	84.75	1.93	0.5163	0.4728	0.0107	43.5	35 576	13 469	
21 510	-1 509c	92.53	83.55	1.44	0.5212	0.4706	0.0081	40.5	35 576	14 472	
24 520	-1 520c	92.07	77.79	0.58	0.5401	0.4563	0.0034	27.8	35 579	16 480	Ym
26 530	-1 530c	90.98	72.2	0.31	0.5564	0.4416	0.0019	17.4	36 582	16 484	
28 540	-1 540c	88.92	65.49	0.16	0.5752	0.4236	0.001	7.2	37 585	17 487	
28 545	-1 544c	88.92	65.49	0.16	0.5752	0.4236	0.001	7.2	37 585	17 487	
29 550	-1 549c	87.43	61.79	0.12	0.5854	0.4137	0.0008	2.6	37 586	17 489	
31 555	-1 555c	83.35	53.89	0.07	0.6069	0.3924	0.0005	354.6	38 590	18 491	
32 560	-1 560c	80.69	49.77	0.06	0.6182	0.3813	0.0004	351.3	38 593	18 492	
34 574	1 405	85.39	51.56	4.32	0.6044	0.3649	0.0306	344.8	39 599	18 494	Rm
34 574	6 435	86.07	51.4	8.51	0.5895	0.352	0.0583	338.7	42 611	19 496	
34 574	9 450	87.02	51.16	14.92	0.5683	0.3341	0.0974	328.7	-1 501c	20 501	
35 575	12 460	87.95	50.98	22.51	0.5447	0.3157	0.1394	316.7	-1 508c	21 508	
35 575	13 465	87.93	50.74	24.91	0.5375	0.3101	0.1522	312.7	-1 512c	22 512	
35 576	13 470	87.31	50.15	24.91	0.5377	0.3088	0.1534	312.4	-1 513c	22 513	
35 577	14 475	86.63	49.4	27.01	0.5313	0.3029	0.1656	308.7	-1 519c	23 519	Mm
35 579	16 480	85.41	48.44	30.24	0.5205	0.2951	0.1842	303.0	-1 532c	26 532	
36 582	17 485	82.59	46.35	31.39	0.5151	0.289	0.1958	299.7	-1 540c	28 540	
37 588	18 490	76.91	42.42	32.31	0.5071	0.2797	0.213	295.0	-1 548c	29 548	min
40 601	19 495	62.46	34.01	33.05	0.4822	0.2626	0.2551	283.4	-1 559c	31 559	
-1 500c	20 500	17.3	15.24	33.65	0.2613	0.2302	0.5083	223.5	13 469	35 576	
-1 509c	21 510	17.31	16.44	34.14	0.255	0.2422	0.5027	220.6	14 472	35 576	
-1 520c	24 520	17.77	22.2	34.99	0.237	0.2961	0.4667	207.8	16 480	35 579	Bm
-1 530c	26 530	18.86	27.79	35.27	0.2302	0.3392	0.4305	197.4	16 484	36 582	
-1 540c	28 540	20.92	34.5	35.41	0.2303	0.3797	0.3898	187.2	17 487	37 585	
-1 544c	28 545	20.92	34.5	35.41	0.2303	0.3797	0.3898	187.2	17 487	37 585	
-1 549c	29 550	22.41	38.2	35.45	0.2333	0.3976	0.369	182.6	17 489	37 586	
-1 555c	31 555	26.48	46.1	35.5	0.245	0.4264	0.3284	174.6	18 491	38 590	
-1 560c	32 560	29.15	50.22	35.52	0.2537	0.4371	0.3091	171.2	18 492	38 593	
380	770	97.31	88.58	31.52	0.4475	0.4074	0.1449	0.0			

TUB-test chart BE29; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant A00; diagram for illuminant A00, $Y_w=88.6$

input: w/rgb/cmyk -> rgb



TUB registration: 20170801-BE29/BE29L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

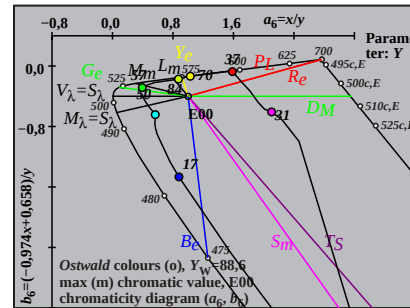
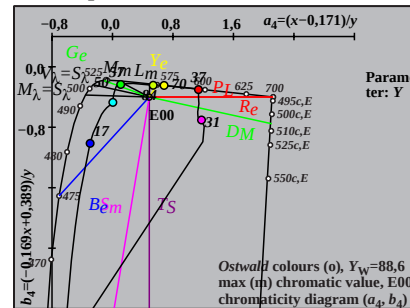
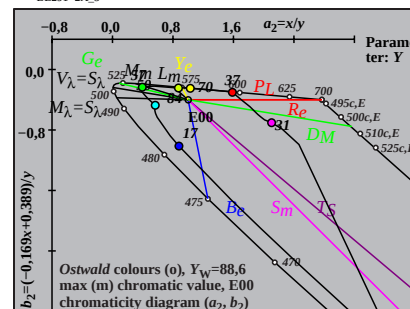
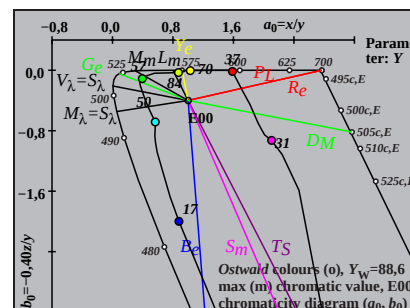
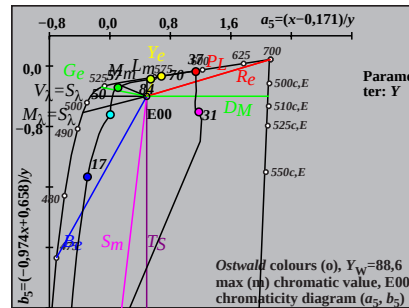
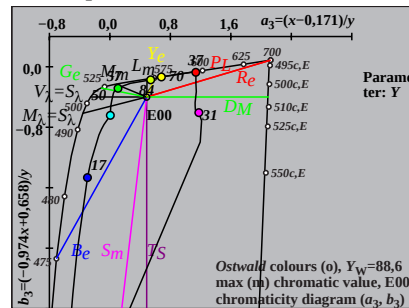
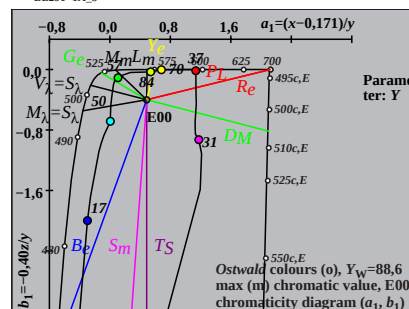
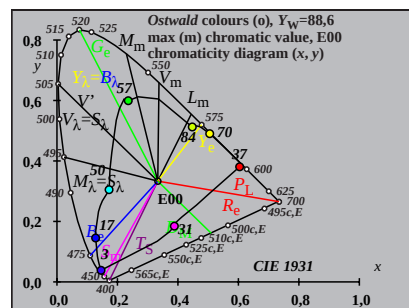
Ostwald optimal colours (o) of maximum (m) C_{AB} for E00, $Y_w=88,6$, $Y_m=520\text{--}770$

i_1, λ_1	i_2, λ_2	X	Y	Z	x	y	z	h_{xy}	i_d, λ_d	i_c, λ_c	Code
1 405	32 564	28.76	50.87	87.07	0.1725	0.3051	0.5222	189.9	16 484	38 592	Cm
6 435	33 565	25.48	51.3	69.01	0.1747	0.3518	0.4733	173.3	17 488	45 627	
10 450	33 566	20.65	51.78	40.05	0.1835	0.4603	0.3561	139.6	19 498	-1 498c	
12 460	33 568	19.25	52.51	26.36	0.1962	0.5351	0.2686	124.1	21 507	-1 507c	
13 465	33 569	19.21	53.28	20.52	0.2065	0.5727	0.2206	117.8	22 514	-1 514c	
14 470	34 571	20.0	54.5	15.7	0.2217	0.6041	0.174	112.3	24 522	-1 522c	
14 475	35 575	22.49	57.16	15.7	0.2358	0.5994	0.1646	110.0	25 525	-1 525c	Gm
16 480	36 581	26.5	60.43	8.9	0.2765	0.6305	0.0929	100.8	27 538	-1 538c	
17 485	39 595	37.68	67.95	6.68	0.3355	0.6049	0.0594	89.5	29 549	-1 549c	
18 490	-1 490c	73.83	83.75	4.99	0.4541	0.5151	0.0307	56.3	33 568	11 459	max
19 495	-1 495c	73.79	82.54	3.69	0.461	0.5157	0.0231	54.9	33 568	12 461	
19 500	-1 499c	73.79	82.54	3.69	0.461	0.5157	0.0231	54.9	33 568	12 461	
22 510	-1 510c	73.67	76.84	1.36	0.485	0.5059	0.0089	48.6	34 571	13 469	
24 520	-1 520c	73.12	70.99	0.69	0.5049	0.4902	0.0047	42.4	34 574	14 473	Ym
26 530	-1 530c	71.74	63.88	0.33	0.5276	0.4698	0.0024	35.0	35 577	15 477	
28 540	-1 540c	69.32	56.0	0.16	0.5524	0.4462	0.0012	27.2	36 581	15 479	
29 545	-1 545c	67.68	51.9	0.11	0.5654	0.4336	0.0009	23.3	36 583	16 480	
29 550	-1 549c	67.68	51.9	0.11	0.5654	0.4336	0.0009	23.3	36 583	16 480	
30 555	-1 554c	65.72	47.77	0.08	0.5786	0.4205	0.0007	19.5	37 585	16 482	
32 560	-1 560c	60.79	39.54	0.05	0.6055	0.3939	0.0005	12.5	38 590	16 483	
32 564	1 405	71.23	49.12	12.92	0.5344	0.3685	0.097	9.9	38 592	16 484	Rm
33 565	6 435	74.51	48.69	30.98	0.4832	0.3157	0.2009	353.3	45 627	17 488	
33 566	10 450	79.34	48.21	59.94	0.4231	0.2571	0.3196	319.7	-1 498c	19 498	
33 568	12 460	80.74	47.48	73.64	0.3999	0.2352	0.3648	304.2	-1 507c	21 507	
33 569	13 465	80.78	46.71	79.47	0.3903	0.2257	0.3839	297.9	-1 514c	22 514	
34 571	14 470	79.99	45.49	84.29	0.3813	0.2168	0.4018	292.4	-1 522c	24 522	
35 575	14 475	77.5	42.83	84.29	0.3787	0.2093	0.4119	290.1	-1 525c	25 525	Mm
36 581	16 480	73.49	39.56	91.09	0.36	0.1938	0.4461	280.8	-1 538c	27 538	
39 595	17 485	62.31	32.04	93.32	0.332	0.1707	0.4972	269.5	-1 549c	29 549	
-1 490c	18 490	26.16	16.24	95.0	0.1904	0.1182	0.6913	236.4	11 459	33 568	min
-1 495c	19 495	26.2	17.45	96.3	0.1872	0.1246	0.688	235.0	12 461	33 568	
-1 499c	19 500	26.2	17.45	96.3	0.1872	0.1246	0.688	235.0	12 461	33 568	
-1 510c	22 510	26.32	23.15	98.63	0.1777	0.1563	0.6659	228.6	13 469	34 571	
-1 520c	24 520	26.87	29.0	99.3	0.1731	0.1868	0.6399	222.4	14 473	34 574	Bm
-1 530c	26 530	28.25	36.11	99.66	0.1722	0.2201	0.6075	215.1	15 477	35 577	
-1 540c	28 540	30.67	43.99	99.83	0.1757	0.2521	0.5721	207.2	15 479	36 581	
-1 545c	29 545	32.31	48.09	99.88	0.1792	0.2667	0.554	203.3	16 480	36 583	
-1 549c	29 550	32.31	48.09	99.88	0.1792	0.2667	0.554	203.3	16 480	36 583	
-1 554c	30 555	34.27	52.22	99.91	0.1838	0.2801	0.5359	199.5	16 482	37 585	
-1 560c	32 560	39.2	60.45	99.94	0.1964	0.3028	0.5007	192.5	16 483	38 590	
380	770	88.59	88.59	88.59	0.3333	0.3333	0.3333	0.0			

TUB-test chart BE29; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant E00; diagram for illuminant E00, $Y_w=88,6$

input: w/rgb/cmyk -> rgb



TUB registration: 20170801-BE29/BE29L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

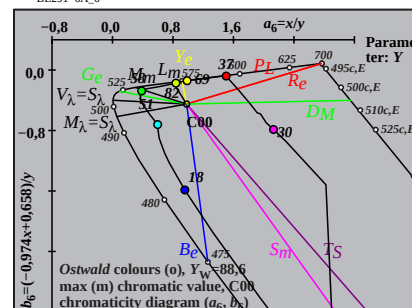
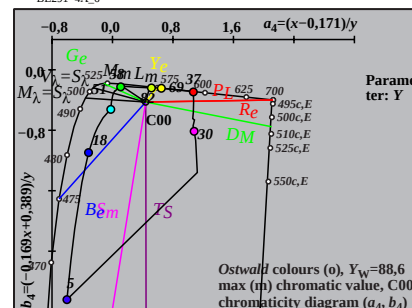
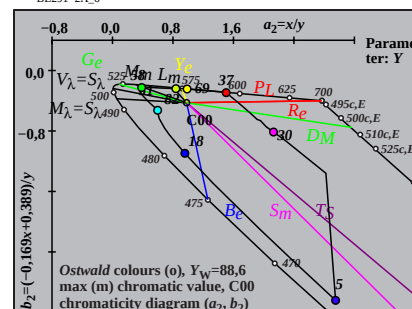
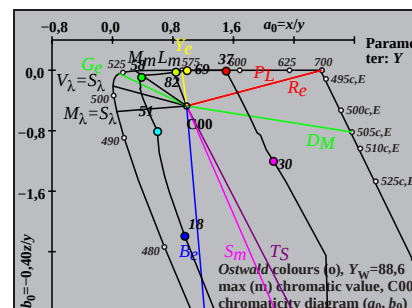
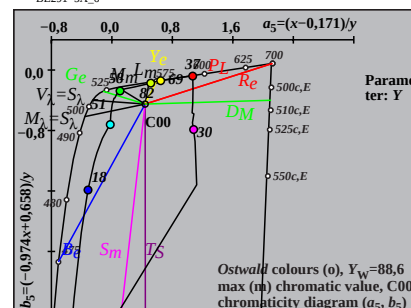
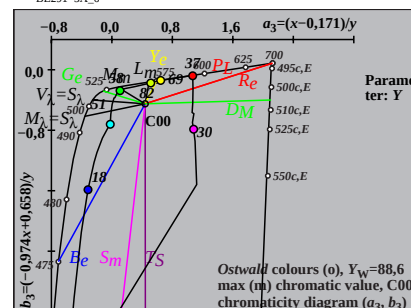
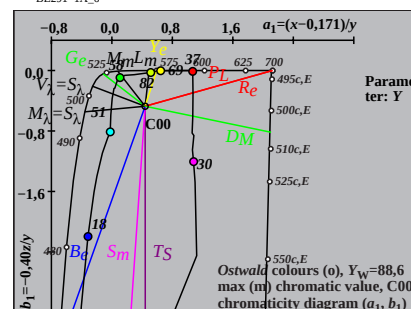
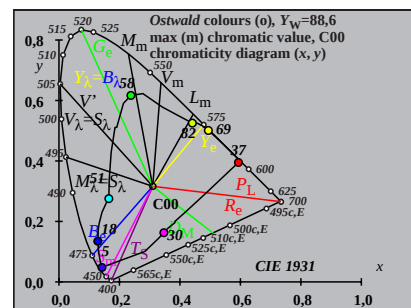
Ostwald optimal colours (o) of maximum (m) C_{AB} for C00, $Y_w=88.6$, $Y_m=520.770$

i_1, λ_1	i_2, λ_2	X	Y	Z	x	y	z	h_{xy}	i_d, λ_d	i_c, λ_c	Code
1 405	32 562	30.57	51.1	103.67	0.1649	0.2756	0.5593	195.5	16 482	37 589	Cm
6 435	32 563	27.1	51.69	84.28	0.1661	0.3169	0.5168	179.6	17 486	42 612	
10 450	32 564	21.08	52.35	48.7	0.1726	0.4286	0.3987	140.6	19 496	-1 496c	
11 460	33 566	20.72	53.63	39.94	0.1813	0.4691	0.3494	130.0	20 501	-1 501c	
13 465	33 568	19.28	54.22	24.52	0.1967	0.5531	0.2501	115.5	22 513	-1 513c	
14 470	34 570	20.14	55.77	18.52	0.2132	0.5906	0.1961	109.4	24 522	-1 522c	
15 475	35 575	22.55	58.4	13.74	0.2381	0.6167	0.1451	103.4	26 530	-1 530c	Gm
16 480	36 582	28.07	62.97	10.08	0.2775	0.6227	0.0996	96.0	28 540	-1 540c	
16 485	40 602	43.26	73.14	10.09	0.342	0.5781	0.0798	83.0	30 551	-1 551c	
18 490	-1 490c	69.45	82.68	5.32	0.441	0.525	0.0338	57.8	33 566	11 459	max
19 495	-1 495c	69.4	81.3	3.83	0.449	0.526	0.0248	56.4	33 567	12 462	
19 500	-1 499c	69.4	81.3	3.83	0.449	0.526	0.0248	56.4	33 567	12 462	
21 510	-1 509c	69.36	77.66	1.92	0.4656	0.5214	0.0128	52.8	33 568	13 466	
24 520	-1 520c	68.74	69.63	0.69	0.4943	0.5006	0.0049	45.0	34 572	14 472	Ym
26 530	-1 530c	67.38	62.62	0.34	0.5169	0.4804	0.0026	38.4	35 575	15 475	
28 540	-1 540c	64.9	54.54	0.16	0.5425	0.456	0.0013	31.0	35 579	15 478	
28 545	-1 544c	64.9	54.54	0.16	0.5425	0.456	0.0013	31.0	35 579	15 478	
29 550	-1 549c	63.17	50.25	0.11	0.5563	0.4425	0.001	27.1	36 581	15 479	
31 555	-1 555c	58.67	41.49	0.06	0.5853	0.4139	0.0006	19.5	37 586	16 481	
31 560	-1 559c	58.67	41.49	0.06	0.5853	0.4139	0.0006	19.5	37 586	16 481	
32 562	1 405	67.5	48.89	14.54	0.5154	0.3734	0.111	15.5	37 589	16 482	Rm
32 563	6 435	70.97	48.3	33.93	0.4632	0.3152	0.2215	359.6	42 612	17 486	
32 564	10 450	76.98	47.64	69.52	0.3965	0.2454	0.358	320.7	-1 496c	19 496	
33 566	11 460	77.34	46.36	78.27	0.3829	0.2295	0.3875	310.1	-1 501c	20 501	
33 568	13 465	78.78	45.77	93.7	0.3609	0.2097	0.4293	295.6	-1 513c	22 513	
34 570	14 470	77.92	44.22	99.7	0.3512	0.1993	0.4494	289.4	-1 522c	24 522	
35 575	15 475	75.51	41.59	104.48	0.3407	0.1876	0.4715	283.4	-1 530c	26 530	Mm
36 582	16 480	70.0	37.02	108.14	0.3253	0.172	0.5025	276.0	-1 540c	28 540	
40 602	16 485	54.8	26.85	108.13	0.2887	0.1415	0.5697	263.0	-1 551c	30 551	
-1 490c	18 490	28.61	17.31	112.89	0.1801	0.109	0.7107	237.9	11 459	33 566	min
-1 495c	19 495	28.66	18.69	114.38	0.1772	0.1155	0.7071	236.5	12 462	33 567	
-1 499c	19 500	28.66	18.69	114.38	0.1772	0.1155	0.7071	236.5	12 462	33 567	
-1 509c	21 510	28.7	22.33	116.3	0.1715	0.1334	0.6949	232.8	13 466	33 568	
-1 520c	24 520	29.32	30.36	117.53	0.1654	0.1713	0.6632	225.0	14 472	34 572	Bm
-1 530c	26 530	30.68	37.37	117.88	0.165	0.201	0.6339	218.4	15 475	35 575	
-1 540c	28 540	33.16	45.45	118.05	0.1686	0.231	0.6002	211.0	15 478	35 579	
-1 544c	28 545	33.16	45.45	118.05	0.1686	0.231	0.6002	211.0	15 478	35 579	
-1 549c	29 550	34.89	49.74	118.1	0.1721	0.2453	0.5825	207.1	15 479	36 581	
-1 555c	31 555	39.39	58.5	118.15	0.1823	0.2707	0.5468	199.5	16 481	37 586	
-1 559c	31 560	39.39	58.5	118.15	0.1823	0.2707	0.5468	199.5	16 481	37 586	
380	770	86.88	88.59	104.73	0.31	0.3161	0.3737	0.0			

TUB-test chart BE29; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant C00; diagram for illuminant C00, $Y_w=88.6$

input: w/rgb/cmyk -> rgb



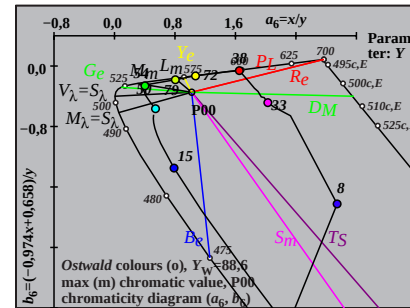
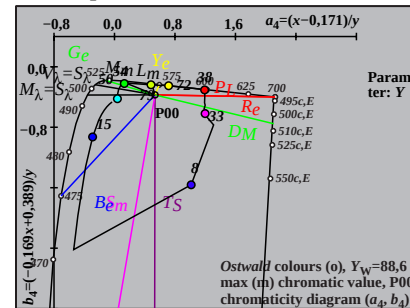
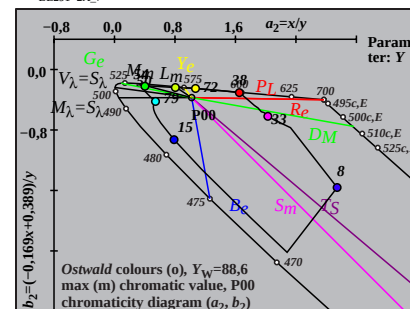
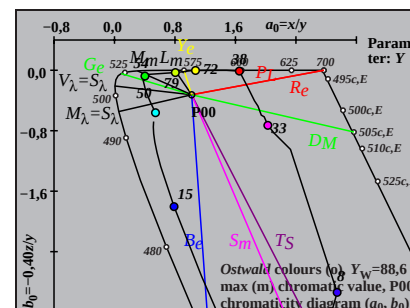
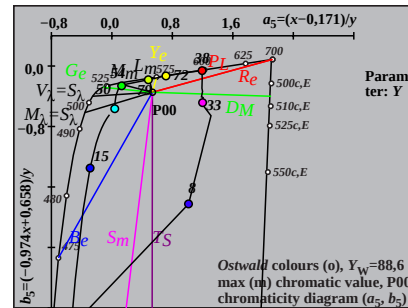
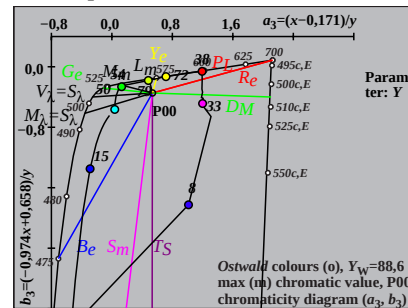
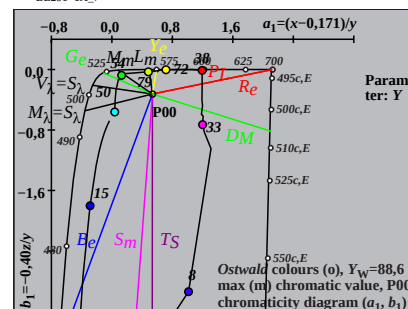
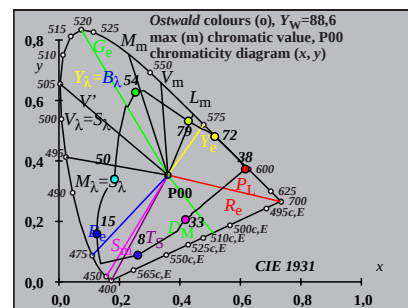
Ostwald optimal colours (o) of maximum (m) C_{AB} for P00, Y_w=88,6, Y_m=520_770

i ₁ , λ ₁	i ₂ , λ ₂	X	Y	Z	x	y	z	h _{xy}	i _d , λ _d	i _c , λ _c	Code
1 405	33 567	27.24	50.33	70.7	0.1837	0.3394	0.4768	184.4	17 486	38 594	Cm
7 435	33 567	23.68	50.61	51.5	0.1882	0.4023	0.4093	164.0	18 491	-1 491c	
10 450	33 568	20.95	51.06	33.95	0.1977	0.4818	0.3204	141.6	19 499	-1 499c	
12 460	34 570	19.8	51.65	22.7	0.2103	0.5485	0.2411	127.5	21 507	-1 507c	
13 465	34 571	19.82	52.22	17.84	0.2205	0.5809	0.1984	121.5	22 513	-1 513c	
13 470	34 572	21.05	53.56	17.84	0.2277	0.5792	0.1929	120.4	23 515	-1 515c	
15 475	35 575	22.09	54.9	10.5	0.2524	0.6274	0.12	111.4	25 529	-1 529c	Gm
16 480	36 580	25.6	57.9	7.96	0.2799	0.6329	0.087	106.0	27 537	-1 537c	
17 485	37 589	33.5	63.52	6.02	0.325	0.6164	0.0584	97.6	29 547	-1 547c	
18 490	45 625	63.97	78.78	4.54	0.4342	0.5348	0.0308	67.8	32 564	-1 564c	max
18 495	-1 494c	78.64	84.48	4.54	0.469	0.5038	0.0271	54.2	34 570	12 460	
20 500	-1 500c	78.59	82.05	2.49	0.4817	0.5029	0.0153	50.9	34 571	13 465	
22 510	-1 510c	78.49	78.23	1.29	0.4967	0.495	0.0081	46.1	34 573	14 470	Ym
24 520	-1 520c	77.98	72.8	0.66	0.5148	0.4807	0.0043	39.5	35 575	14 474	
25 530	-1 529c	77.44	69.57	0.47	0.525	0.4717	0.0032	35.7	35 577	15 476	
28 540	-1 540c	74.34	58.47	0.16	0.559	0.4397	0.0012	23.5	36 582	16 481	
28 545	-1 544c	74.34	58.47	0.16	0.559	0.4397	0.0012	23.5	36 582	16 481	
30 550	-1 550c	70.8	50.39	0.08	0.5837	0.4155	0.0007	15.5	37 586	16 483	
30 555	-1 554c	70.8	50.39	0.08	0.5837	0.4155	0.0007	15.5	37 586	16 483	
32 560	-1 560c	65.87	42.17	0.05	0.6093	0.3901	0.0005	8.4	38 591	17 485	
33 567	1 405	74.81	49.66	10.35	0.5548	0.3683	0.0767	4.4	38 594	17 486	Rm
33 567	7 435	78.37	49.38	29.55	0.4982	0.3139	0.1878	344.0	-1 491c	18 491	
33 568	10 450	81.11	48.93	47.1	0.4578	0.2762	0.2659	321.7	-1 499c	19 499	
34 570	12 460	82.26	48.34	58.35	0.4353	0.2558	0.3088	307.5	-1 507c	21 507	
34 571	13 465	82.23	47.77	63.21	0.4256	0.2472	0.3271	301.6	-1 513c	22 513	
34 572	13 470	81.0	46.43	63.21	0.4248	0.2435	0.3315	300.4	-1 515c	23 515	
35 575	15 475	79.97	45.09	70.55	0.4088	0.2305	0.3606	291.5	-1 529c	25 529	Mm
36 580	16 480	76.45	42.09	73.09	0.3989	0.2196	0.3814	286.0	-1 537c	27 537	
37 589	17 485	68.56	36.47	75.03	0.3807	0.2025	0.4167	277.6	-1 547c	29 547	
45 625	18 490	38.09	21.21	76.51	0.2804	0.1561	0.5633	247.9	-1 564c	32 564	min
-1 494c	18 495	23.42	15.51	76.51	0.2028	0.1343	0.6627	234.2	12 460	34 570	
-1 500c	20 500	23.47	17.94	78.56	0.1956	0.1495	0.6548	231.0	13 465	34 571	
-1 510c	22 510	23.56	21.76	79.76	0.1883	0.1739	0.6376	226.1	14 470	34 573	
-1 520c	24 520	24.07	27.19	80.39	0.1828	0.2065	0.6105	219.5	14 474	35 575	Bm
-1 529c	25 530	24.61	30.42	80.58	0.1815	0.2243	0.5941	215.7	15 476	35 577	
-1 540c	28 540	27.72	41.52	80.89	0.1846	0.2765	0.5388	203.5	16 481	36 582	
-1 544c	28 545	27.72	41.52	80.89	0.1846	0.2765	0.5388	203.5	16 481	36 582	
-1 550c	30 550	31.26	49.6	80.97	0.1931	0.3065	0.5003	195.6	16 483	37 586	
-1 554c	30 555	31.26	49.6	80.97	0.1931	0.3065	0.5003	195.6	16 483	37 586	
-1 560c	32 560	36.19	57.82	81.0	0.2067	0.3303	0.4628	188.4	17 485	38 591	
380	770	90.42	88.59	71.81	0.3604	0.3531	0.2863	0.0			

TUB-test chart BE29; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant P00; diagram for illuminant P00, Y_w=88,6

input: w/rgb/cmyk -> rgb



TUB registration: 20170801-BE29/BE29L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

Ostwald optimal colours (o) of maximum (m) C_{AB} for Q00, $Y_w=88.6$, $Y_m=520.770$

i_1, λ_1	i_2, λ_2	X	Y	Z	x	y	z	h_{xy}	i_d, λ_d	i_c, λ_c	Code
1 405	32 562	30.39	51.28	103.44	0.1641	0.277	0.5587	194.9	16 482	38 590	Cm
7 435	32 562	24.57	51.72	72.55	0.165	0.3474	0.4874	167.4	17 488	-1 488c	
10 450	32 564	20.35	52.44	46.16	0.171	0.4408	0.388	137.7	19 497	-1 497c	
11 460	33 566	20.01	53.67	37.79	0.1795	0.4814	0.339	127.9	20 502	-1 502c	
12 465	33 568	19.74	54.66	30.01	0.189	0.5234	0.2874	119.9	21 508	-1 508c	
14 470	34 570	19.52	55.78	17.62	0.21	0.6002	0.1896	109.1	24 522	-1 522c	
15 475	35 575	21.9	58.38	13.22	0.2342	0.6243	0.1413	103.6	26 530	-1 530c	Gm
16 480	36 582	27.43	62.99	9.85	0.2735	0.6281	0.0982	96.4	27 539	-1 539c	
17 485	40 602	42.96	72.6	7.33	0.3496	0.5907	0.0596	81.5	30 552	-1 552c	
17 490	-1 489c	69.13	84.1	7.34	0.4305	0.5237	0.0457	59.7	33 565	11 455	max
18 495	-1 494c	69.02	83.02	5.43	0.4382	0.5271	0.0345	58.5	33 565	11 458	
20 500	-1 500c	68.96	80.01	2.88	0.4541	0.5268	0.019	55.5	33 567	12 463	
21 510	-1 509c	68.93	77.94	2.04	0.4628	0.5233	0.0137	53.4	33 568	13 465	
23 520	-1 519c	68.64	72.51	1.01	0.4828	0.51	0.0071	48.1	34 571	14 470	Ym
26 530	-1 530c	66.8	61.69	0.34	0.5185	0.4788	0.0026	37.9	35 576	15 475	
27 540	-1 539c	65.69	57.66	0.23	0.5315	0.4665	0.0018	34.1	35 578	15 477	
28 545	-1 544c	64.3	53.52	0.16	0.545	0.4536	0.0013	30.3	36 580	15 478	
29 550	-1 549c	62.62	49.33	0.11	0.5587	0.4402	0.001	26.5	36 582	15 479	
30 555	-1 554c	60.64	45.14	0.08	0.5727	0.4264	0.0007	22.7	36 584	16 480	
31 560	-1 559c	58.33	40.99	0.06	0.5869	0.4124	0.0006	19.2	37 587	16 481	
32 562	1 405	67.54	48.71	15.51	0.5125	0.3697	0.1177	14.8	38 590	16 482	Rm
32 562	7 435	73.36	48.27	46.39	0.4365	0.2872	0.2761	347.5	-1 488c	17 488	
32 564	10 450	77.57	47.55	72.78	0.3919	0.2402	0.3677	317.7	-1 497c	19 497	
33 566	11 460	77.92	46.32	81.15	0.3793	0.2255	0.3951	308.0	-1 502c	20 502	
33 568	12 465	78.18	45.33	88.93	0.368	0.2133	0.4186	300.0	-1 508c	21 508	
34 570	14 470	78.4	44.21	101.32	0.3501	0.1974	0.4524	289.2	-1 522c	24 522	
35 575	15 475	76.02	41.61	105.73	0.3403	0.1862	0.4733	283.6	-1 530c	26 530	
36 582	16 480	70.49	37.0	109.09	0.3254	0.1708	0.5036	276.5	-1 539c	27 539	
40 602	17 485	54.96	27.39	111.61	0.2833	0.1412	0.5754	261.6	-1 552c	30 552	
-1 489c	17 490	28.79	15.89	111.61	0.1842	0.1016	0.714	239.7	11 455	33 565	min
-1 494c	18 495	28.9	16.97	113.51	0.1813	0.1065	0.7121	238.6	11 458	33 565	
-1 500c	20 500	28.97	19.98	116.06	0.1755	0.1211	0.7033	235.5	12 463	33 567	
-1 509c	21 510	28.99	22.05	116.9	0.1726	0.1312	0.696	233.5	13 465	33 568	
-1 519c	23 520	29.28	27.48	117.93	0.1676	0.1573	0.675	228.2	14 470	34 571	Bm
-1 530c	26 530	31.12	38.3	118.61	0.1655	0.2037	0.6307	217.9	15 475	35 576	
-1 539c	27 540	32.23	42.33	118.72	0.1667	0.219	0.6141	214.1	15 477	35 578	
-1 544c	28 545	33.62	46.47	118.79	0.169	0.2336	0.5972	210.3	15 478	36 580	
-1 549c	29 550	35.3	50.66	118.83	0.1723	0.2473	0.5802	206.5	15 479	36 582	
-1 554c	30 555	37.29	54.85	118.87	0.1767	0.2599	0.5633	202.8	16 480	36 584	
-1 559c	31 560	39.59	59.0	118.89	0.182	0.2713	0.5466	199.2	16 481	37 587	
380	770	86.75	88.59	105.38	0.309	0.3155	0.3753	0.0			

TUB-test chart BE29; CIE (x, y) and chromaticities (a_i, b_i)

Ostwald optimal colours for illuminant Q00; diagram for illuminant Q00, $Y_w=88.6$

input: w/rgb/cmyk -> rgb

