***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	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	31 557	28.05	49.67	90.19	0.167	0.2957	0.5371	193.1	15 477	37 587	Cm
7 435	31 559	23.0	50.1	61.32	0.171	0.3727	0.4561	164.9	16 483	−1 483c	
9 450	32 561	20.98	50.82	45.46	0.1789	0.4333	0.3876	144.7	17 489	−1 489c	
12 460	32 563	18.8	51.42	23.82	0.1999	0.5468	0.2532	119.6	21 505	−1 505c	
13 465	33 566	19.66	52.77	18.06	0.2172	0.5831	0.1995	112.7	22 514	−1 514c	
14 470	34 571	22.32	55.44	13.34	0.245	0.6084	0.1464	105.6	24 524	−1 524c	
14 475	36 580	28.86	61.28	13.34	0.2788	0.5921	0.1289	99.4	26 531	−1 531c	Gm
15 480	41 605	48.65	73.32	9.72	0.3694	0.5567	0.0738	78.1	30 550	−1 550c	
16 485	−1 484c	70.62	82.24	7.02	0.4417	0.5143	0.0439	56.7	32 561	10 453	
18 490	−1 490c	70.47	79.48	3.6	0.4588	0.5176	0.0234	53.6	32 563	11 458	max
19 495	−1 495c	70.45	77.77	2.56	0.4672	0.5157	0.0169	51.7	32 564	12 461	
20 500	−1 500c	70.41	75.78	1.8	0.4757	0.512	0.0122	49.5	33 565	12 463	
21 510	−1 509c	70.3	73.51	1.26	0.4845	0.5066	0.0087	47.0	33 566	12 464	
24 520	−1 520c	69.14	64.92	0.38	0.5142	0.4828	0.0028	38.1	34 571	13 469	Ym
26 530	−1 530c	67.27	58.04	0.14	0.5361	0.4626	0.0011	31.4	34 574	14 472	
28 540	−1 540c	64.33	50.58	0.03	0.5596	0.44	0.0003	24.4	35 578	14 474	
29 545	−1 545c	62.43	46.75	0.01	0.5717	0.4281	0.0001	21.0	36 581	15 475	
30 550	−1 550c	60.22	42.92	0.0	0.5838	0.4161	0.0	17.8	36 583	15 476	
31 555	−1 555c	57.69	39.1	0.0	0.596	0.4039	0.0	14.7	37 586	15 476	
31 560	8 442	65.39	40.12	38.0	0.4556	0.2795	0.2647	338.4	−1 485c	17 485	
31 557	1 405	69.04	50.32	13.81	0.5183	0.3778	0.1037	13.1	37 587	15 477	Rm
31 559	7 435	74.09	49.89	42.69	0.4445	0.2993	0.2561	344.9	−1 483c	16 483	
32 561	9 450	76.1	49.17	58.55	0.4139	0.2674	0.3185	324.8	−1 489c	17 489	
32 563	12 460	78.29	48.57	80.19	0.3781	0.2345	0.3873	299.7	−1 505c	21 505	
33 566	13 465	77.43	47.22	85.95	0.3676	0.2242	0.4081	292.7	−1 514c	22 514	
34 571	14 470	74.76	44.55	90.67	0.356	0.2121	0.4317	285.6	−1 524c	24 524	
36 580	14 475	68.22	38.71	90.67	0.3452	0.1959	0.4588	279.5	−1 531c	26 531	Mm
41 605	15 480	48.44	26.67	94.29	0.2859	0.1574	0.5565	258.2	−1 550c	30 550	
−1 484c	16 485	26.46	17.75	96.98	0.1874	0.1257	0.6868	236.8	10 453	32 561	
−1 490c	18 490	26.62	20.51	100.4	0.1804	0.139	0.6805	233.6	11 458	32 563	min
−1 495c	19 495	26.64	22.22	101.45	0.1772	0.1478	0.6749	231.7	12 461	32 564	
−1 500c	20 500	26.68	24.21	102.21	0.1742	0.1581	0.6675	229.5	12 463	33 565	
−1 509c	21 510	26.78	26.48	102.75	0.1716	0.1697	0.6585	227.1	12 464	33 566	
−1 520c	24 520	27.95	35.07	103.62	0.1677	0.2104	0.6218	218.1	13 469	34 571	Bm
−1 530c	26 530	29.82	41.95	103.87	0.1697	0.2388	0.5913	211.4	14 472	34 574	
−1 540c	28 540	32.76	49.41	103.98	0.1759	0.2654	0.5585	204.4	14 474	35 578	
−1 545c	29 545	34.66	53.24	104.0	0.1806	0.2774	0.5419	201.0	15 475	36 581	
−1 550c	30 550	36.86	57.07	104.01	0.1862	0.2883	0.5254	197.8	15 476	36 583	
−1 555c	31 555	39.39	60.89	104.01	0.1928	0.298	0.5091	194.7	15 476	37 586	
8 442	31 560	31.7	59.87	66.01	0.2011	0.3799	0.4189	158.4	17 485	−1 485c	
380	770	86.01	88.58	92.14	0.3224	0.3321	0.3454	0.0			

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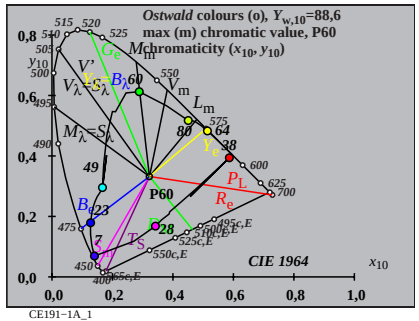

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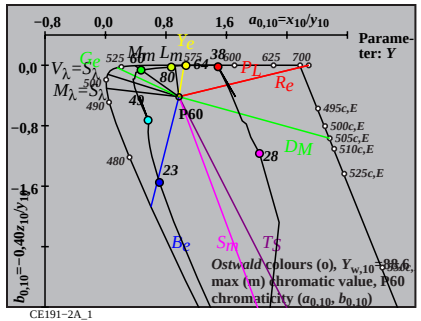

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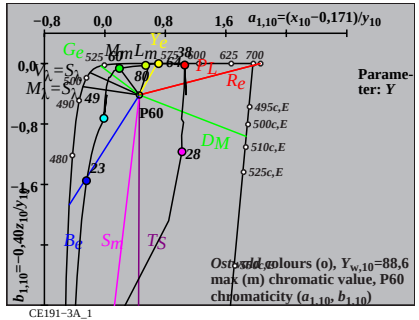

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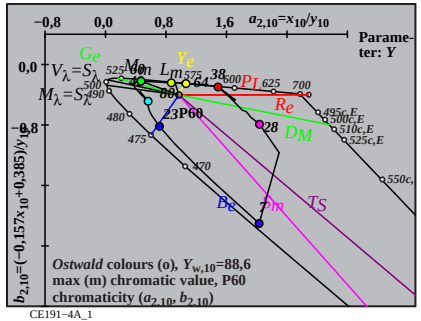

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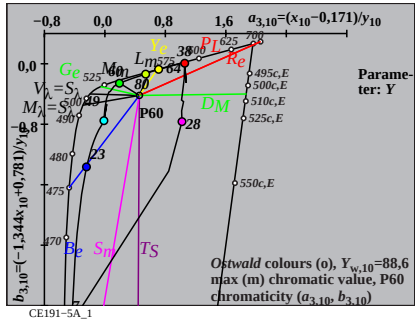

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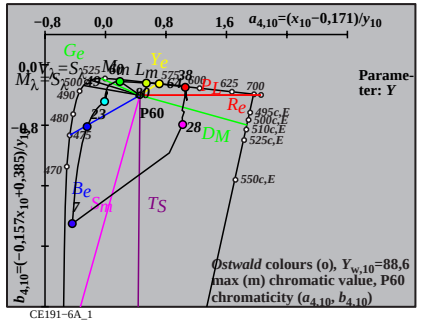

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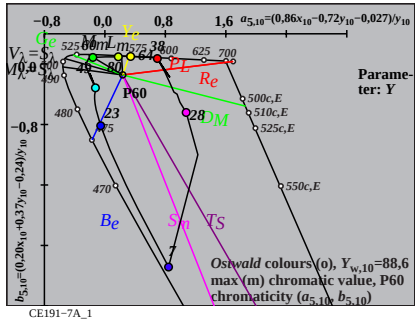

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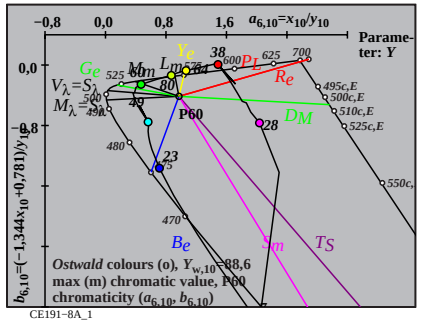


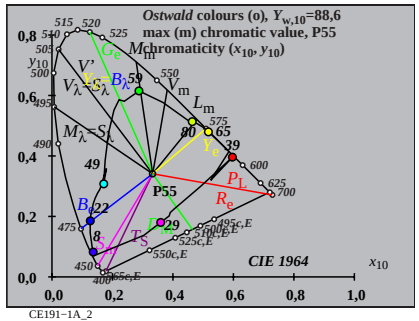
CE191−8A_1

TUB-test chart CE19; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}$, $b_{i,10}$) input: *w/rgb/cmyk −> rgb*
Ostwald optimal colours for illuminant P60; diagram for illuminant P60, $Y_{w,10}$=88,6

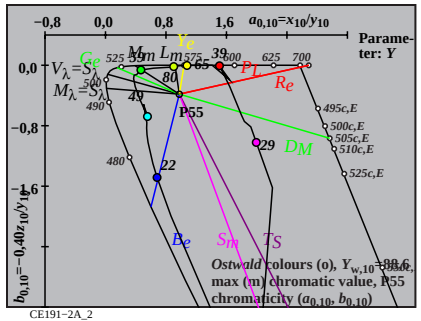
***Ostwald* optimal colours (o) of maximum (m) $C_{AB,10}$ for P55, $Y_{w,10}$=88,6, Y_m=520_770**

i_1, λ_1	i_2, λ_2	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
0 405	31 558	27.51	49.47	83.91	0.171	0.3074	0.5215	191.7	15 477	37 587	Cm
7 435	32 560	22.8	49.85	57.05	0.1758	0.3843	0.4398	164.6	16 484	−1 484c	
10 450	32 561	19.7	50.14	35.42	0.1871	0.4763	0.3365	137.1	18 493	−1 493c	
12 460	32 564	18.98	51.05	22.54	0.205	0.5514	0.2434	121.2	21 505	−1 505c	
12 465	33 566	20.64	52.91	22.54	0.2147	0.5506	0.2346	119.4	21 507	−1 507c	
14 470	34 571	22.22	54.7	12.73	0.2478	0.6101	0.142	107.5	24 523	−1 523c	
15 475	35 579	27.66	59.09	9.31	0.2879	0.615	0.0969	99.3	26 533	−1 533c	Gm
16 480	39 599	44.05	69.36	6.75	0.3665	0.5771	0.0562	81.9	29 548	−1 548c	
16 485	−1 484c	72.47	82.68	6.75	0.4475	0.5106	0.0417	55.9	32 562	10 454	
17 490	−1 489c	72.36	81.46	4.87	0.4559	0.5133	0.0307	54.4	32 563	11 456	max
19 495	−1 495c	72.3	78.4	2.49	0.4719	0.5117	0.0162	50.8	33 565	12 461	
20 500	−1 500c	72.26	76.48	1.76	0.4801	0.5081	0.0117	48.6	33 566	12 463	
22 510	−1 510c	71.95	71.78	0.86	0.4976	0.4964	0.0059	43.3	33 568	13 467	
24 520	−1 520c	71.02	65.89	0.38	0.5172	0.4799	0.0028	36.9	34 571	14 470	Ym
25 530	−1 529c	70.23	62.6	0.24	0.5277	0.4704	0.0018	33.5	34 573	14 471	
27 540	−1 539c	67.86	55.45	0.07	0.5499	0.4494	0.0006	26.5	35 577	14 474	
28 545	−1 544c	66.25	51.69	0.03	0.5615	0.4381	0.0002	23.0	35 579	15 475	
29 550	−1 549c	64.36	47.87	0.01	0.5733	0.4265	0.0001	19.5	36 581	15 475	
31 555	−1 555c	59.6	40.19	0.0	0.5972	0.4027	0.0	13.1	37 586	15 477	
32 560	6 430	60.46	36.81	17.91	0.5249	0.3195	0.1555	353.6	45 629	16 482	
31 558	0 405	70.13	50.52	11.63	0.5301	0.3818	0.0879	11.7	37 587	15 477	Rm
32 560	7 435	74.85	50.14	38.49	0.4578	0.3067	0.2354	344.6	−1 484c	16 484	
32 561	10 450	77.95	49.85	60.12	0.4147	0.2652	0.3199	317.1	−1 493c	18 493	
32 564	12 460	78.66	48.94	73.0	0.3921	0.2439	0.3639	301.3	−1 505c	21 505	
33 566	12 465	77.01	47.08	73.0	0.3907	0.2388	0.3703	299.4	−1 507c	21 507	
34 571	14 470	75.43	45.29	82.81	0.3705	0.2225	0.4068	287.6	−1 523c	24 523	
35 579	15 475	69.99	40.9	86.23	0.355	0.2075	0.4374	279.3	−1 533c	26 533	Mm
39 599	16 480	53.6	30.63	88.79	0.3097	0.177	0.5131	261.9	−1 548c	29 548	
−1 484c	16 485	25.18	17.31	88.79	0.1918	0.1318	0.6763	235.9	10 454	32 562	
−1 489c	17 490	25.29	18.53	90.67	0.188	0.1377	0.6741	234.5	11 456	32 563	min
−1 495c	19 495	25.34	21.59	93.05	0.181	0.1542	0.6646	230.8	12 461	33 565	
−1 500c	20 500	25.38	23.51	93.78	0.1779	0.1647	0.6573	228.6	12 463	33 566	
−1 510c	22 510	25.7	28.21	94.69	0.1729	0.1898	0.6371	223.3	13 467	33 568	
−1 520c	24 520	26.63	34.1	95.16	0.1708	0.2187	0.6104	217.0	14 470	34 571	Bm
−1 529c	25 530	27.42	37.39	95.31	0.1712	0.2335	0.5951	213.6	14 471	34 573	
−1 539c	27 540	29.79	44.54	95.47	0.1754	0.2623	0.5622	206.5	14 474	35 577	
−1 544c	28 545	31.39	48.3	95.51	0.1791	0.2756	0.5451	203.0	15 475	35 579	
−1 549c	29 550	33.29	52.12	95.54	0.1839	0.288	0.5279	199.5	15 475	36 581	
−1 555c	31 555	38.04	59.8	95.55	0.1967	0.3092	0.494	193.1	15 477	37 586	
6 430	32 560	37.19	63.18	77.63	0.2089	0.3549	0.4361	173.6	16 482	45 629	
380	770	86.51	88.59	84.65	0.333	0.341	0.3258	0.0			

1−001130−L0 CE190−7N_16



CE191−1A_2



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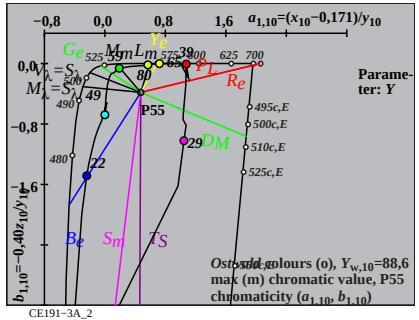

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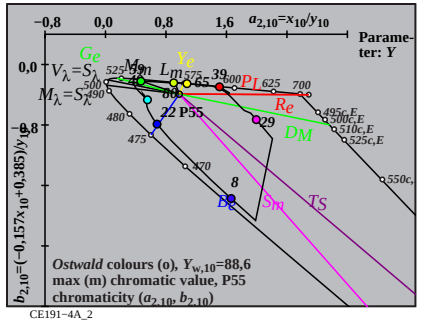

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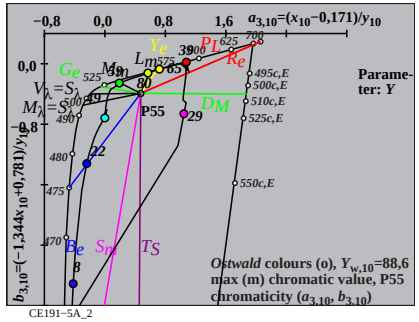

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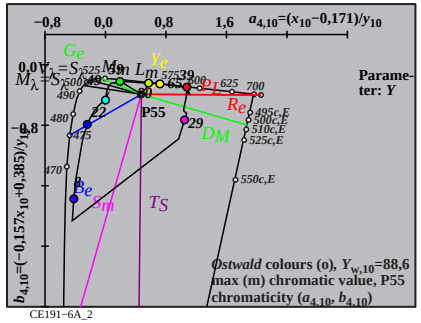

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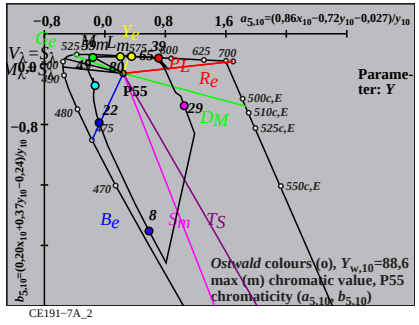

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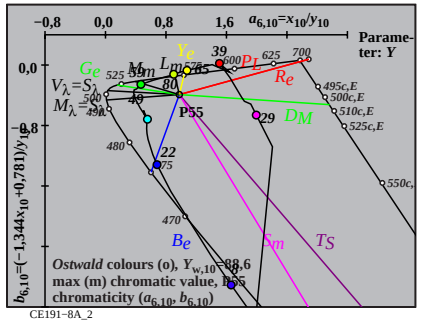
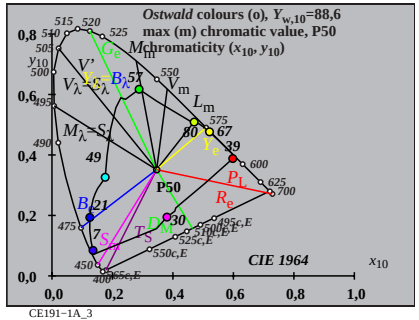


CE191−8A_2

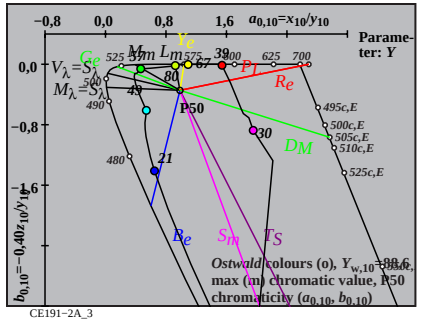
***Ostwald* optimal colours (o) of maximum (m) $C_{AB,10}$ for P50, $Y_{w,10}$=88,6, Y_m=520_770**

i_1, λ_1		i_2, λ_2		X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d		i_c, λ_c		Code
1	405	32	560	26.53	49.16	74.9	0.1761	0.3264	0.4973	188.3	15	479	37	589	Cm
7	435	32	561	22.66	49.51	52.23	0.1821	0.3979	0.4198	164.0	17	485	−1	485c	
9	450	32	562	21.07	50.11	39.26	0.1907	0.4537	0.3554	146.5	18	490	−1	490c	
12	460	33	565	19.23	50.61	21.06	0.2115	0.5567	0.2317	123.1	21	505	−1	505c	
13	465	33	567	19.99	51.69	16.11	0.2277	0.5887	0.1834	116.4	22	513	−1	513c	
14	470	34	571	22.17	53.85	12.01	0.2518	0.6117	0.1364	109.8	24	523	−1	523c	
14	475	35	578	27.31	58.55	12.01	0.279	0.5981	0.1227	105.1	25	529	−1	529c	Gm
16	480	38	593	40.17	66.43	6.43	0.3553	0.5876	0.0569	87.7	29	546	−1	546c	
17	485	−1	485c	74.61	82.03	4.66	0.4625	0.5085	0.0289	53.4	32	564	11	457	
18	490	−1	490c	74.57	80.69	3.36	0.4701	0.5086	0.0211	51.7	33	565	11	459	max
18	495	−1	494c	74.57	80.69	3.36	0.4701	0.5086	0.0211	51.7	33	565	11	459	
20	500	−1	500c	74.52	77.29	1.71	0.4853	0.5034	0.0111	47.4	33	566	12	464	
22	510	−1	510c	74.22	72.76	0.84	0.502	0.4922	0.0057	42.0	33	569	13	467	
24	520	−1	520c	73.31	67.03	0.37	0.5209	0.4763	0.0026	35.5	34	572	14	470	Ym
26	530	−1	530c	71.5	60.37	0.14	0.5416	0.4573	0.001	28.4	35	575	14	473	
28	540	−1	540c	68.6	53.02	0.03	0.5638	0.4358	0.0002	21.2	35	579	15	475	
29	545	−1	545c	66.71	49.21	0.01	0.5753	0.4244	0.0001	17.7	36	581	15	476	
30	550	−1	550c	64.5	45.37	0.0	0.587	0.4129	0.0	14.3	36	584	15	477	
31	555	−1	555c	61.94	41.51	0.0	0.5987	0.4012	0.0	11.1	37	586	15	478	
32	560	−1	560c	59.04	37.67	0.0	0.6104	0.3895	0.0	8.2	37	589	15	479	
32	560	1	405	71.98	50.83	11.26	0.5368	0.3791	0.084	8.2	37	589	15	479	Rm
32	561	7	435	75.84	50.48	33.93	0.4732	0.3149	0.2117	344.0	−1	485c	17	485	
32	562	9	450	77.43	49.88	46.9	0.4444	0.2863	0.2692	326.6	−1	490c	18	490	
33	565	12	460	79.27	49.38	65.1	0.4091	0.2548	0.3359	303.2	−1	505c	21	505	
33	567	13	465	78.51	48.3	70.06	0.3988	0.2453	0.3558	296.5	−1	513c	22	513	
34	571	14	470	76.34	46.14	74.15	0.3882	0.2346	0.3771	289.9	−1	523c	24	523	
35	578	14	475	71.19	41.44	74.15	0.3811	0.2218	0.3969	285.2	−1	529c	25	529	Mm
38	593	16	480	58.33	33.56	79.73	0.3398	0.1955	0.4645	267.7	−1	546c	29	546	
−1	485c	17	485	23.89	17.96	81.5	0.1937	0.1456	0.6606	233.4	11	457	32	564	
−1	490c	18	490	23.93	19.3	82.8	0.1899	0.1531	0.6569	231.7	11	459	33	565	min
−1	494c	18	495	23.93	19.3	82.8	0.1899	0.1531	0.6569	231.7	11	459	33	565	
−1	500c	20	500	23.98	22.7	84.45	0.1829	0.1731	0.6439	227.5	12	464	33	566	
−1	510c	22	510	24.29	27.23	85.32	0.1774	0.199	0.6234	222.1	13	467	33	569	
−1	520c	24	520	25.19	32.96	85.79	0.175	0.2289	0.5959	215.5	14	470	34	572	Bm
−1	530c	26	530	27.0	39.62	86.02	0.1769	0.2595	0.5635	208.4	14	473	35	575	
−1	540c	28	540	29.9	46.97	86.13	0.1834	0.2881	0.5283	201.2	15	475	35	579	
−1	545c	29	545	31.79	50.78	86.15	0.1884	0.3009	0.5106	197.7	15	476	36	581	
−1	550c	30	550	34.0	54.62	86.16	0.1945	0.3124	0.4929	194.3	15	477	36	584	
−1	555c	31	555	36.56	58.48	86.17	0.2017	0.3227	0.4754	191.1	15	478	37	586	
−1	560c	32	560	39.47	62.32	86.17	0.2099	0.3315	0.4584	188.2	15	479	37	589	
	380		770	87.27	88.58	76.33	0.346	0.3512	0.3026	0.0					

1−001230−L0 CE190−7N_16



CE191−1A_3



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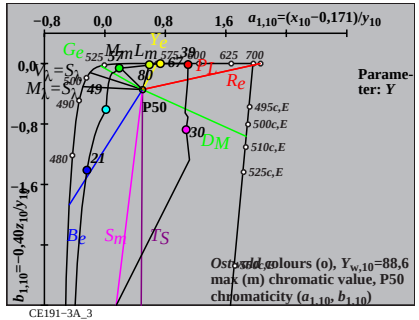

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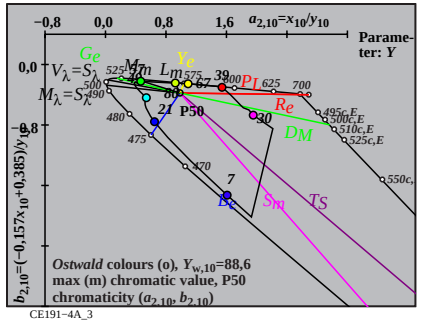
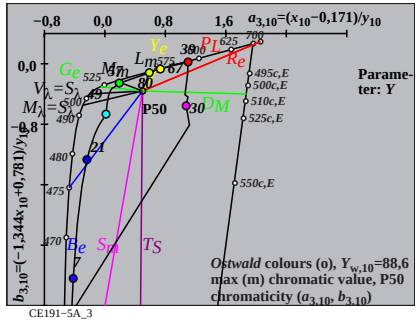
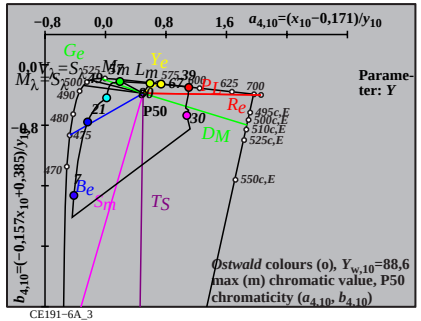


CE191−4A_3



CE191−5A_3



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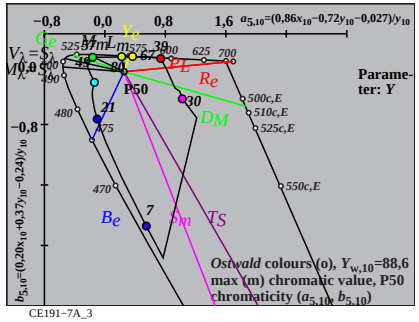

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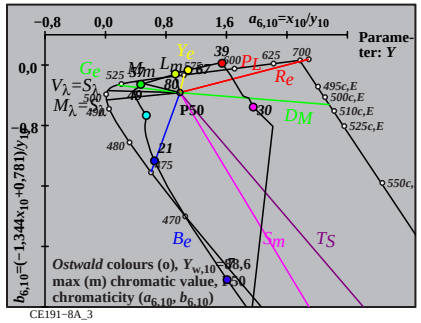

CE191−8A_3

TUB-test chart CE19; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}$, $b_{i,10}$) input: *w/rgb/cmyk −> rgb*
Ostwald optimal colours for illuminant P50; diagram for illuminant P50, $Y_{w,10}$=88,6

***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	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	32 561	25.81	48.78	65.99	0.1835	0.3469	0.4694	185.0	16 480	38 590	Cm
7 435	32 562	22.55	49.1	46.78	0.1904	0.4145	0.3949	163.2	17 486	−1 486c	
10 450	32 564	20.14	49.35	29.8	0.2028	0.497	0.3001	139.8	18 494	−1 494c	
11 460	33 566	20.47	50.49	24.36	0.2147	0.5296	0.2556	131.4	19 499	−1 499c	
13 465	33 568	20.28	51.01	14.87	0.2353	0.5919	0.1726	118.9	22 513	−1 513c	
13 470	34 571	22.71	53.52	14.87	0.2492	0.5874	0.1632	116.6	23 516	−1 516c	
15 475	35 577	26.28	56.19	8.25	0.2896	0.6193	0.0909	105.7	26 532	−1 532c	Gm
15 480	37 589	36.95	64.3	8.25	0.3374	0.5871	0.0753	96.2	28 542	−1 542c	
17 485	51 659	75.75	82.04	4.41	0.467	0.5057	0.0272	53.6	32 564	10 454	
18 490	−1 490c	77.35	81.43	3.19	0.4775	0.5027	0.0197	50.4	33 566	12 460	max
19 495	−1 495c	77.34	79.96	2.3	0.4845	0.5009	0.0144	48.4	33 566	12 462	
20 500	−1 500c	77.3	78.23	1.64	0.4918	0.4976	0.0104	46.0	33 567	12 464	
22 510	−1 510c	77.02	73.9	0.81	0.5075	0.487	0.0054	40.4	34 570	13 468	
23 520	−1 519c	76.67	71.28	0.56	0.5162	0.4799	0.0037	37.2	34 571	14 470	Ym
25 530	−1 529c	75.38	65.24	0.23	0.5351	0.4631	0.0016	30.0	34 574	14 473	
27 540	−1 539c	73.09	58.32	0.07	0.5558	0.4435	0.0005	22.6	35 578	15 475	
29 545	−1 545c	69.63	50.85	0.01	0.5779	0.4219	0.0	15.3	36 582	15 477	
29 550	−1 549c	69.63	50.85	0.01	0.5779	0.4219	0.0	15.3	36 582	15 477	
30 555	−1 554c	67.42	47.0	0.0	0.5891	0.4107	0.0	11.9	36 584	15 478	
32 560	−1 560c	61.92	39.25	0.0	0.612	0.3879	0.0	5.7	38 590	16 480	
32 561	1 405	73.99	51.21	9.81	0.5479	0.3793	0.0726	5.0	38 590	16 480	Rm
32 562	7 435	77.24	50.89	29.02	0.4914	0.3238	0.1846	343.2	−1 486c	17 486	
32 564	10 450	79.65	50.64	46.0	0.4518	0.2872	0.2609	319.9	−1 494c	18 494	
33 566	11 460	79.33	49.5	51.44	0.44	0.2746	0.2853	311.4	−1 499c	19 499	
33 568	13 465	79.51	48.98	60.92	0.4197	0.2585	0.3216	298.9	−1 513c	22 513	
34 571	13 470	77.09	46.47	60.92	0.4178	0.2519	0.3302	296.7	−1 516c	23 516	
35 577	15 475	73.52	43.8	67.55	0.3976	0.2369	0.3653	285.8	−1 532c	26 532	Mm
37 589	15 480	62.84	35.69	67.55	0.3783	0.2149	0.4067	276.3	−1 542c	28 542	
51 659	17 485	24.04	17.95	71.39	0.212	0.1583	0.6295	233.7	10 454	32 564	
−1 490c	18 490	22.44	18.56	72.6	0.1975	0.1633	0.639	230.4	12 460	33 566	min
−1 495c	19 495	22.46	20.03	73.5	0.1936	0.1727	0.6336	228.4	12 462	33 566	
−1 500c	20 500	22.49	21.76	74.16	0.1899	0.1838	0.6262	226.1	12 464	33 567	
−1 510c	22 510	22.78	26.09	74.98	0.1839	0.2106	0.6054	220.5	13 468	34 570	
−1 519c	23 520	23.12	28.71	75.24	0.1819	0.2259	0.592	217.2	14 470	34 571	Bm
−1 529c	25 530	24.41	34.75	75.57	0.1811	0.2579	0.5608	210.1	14 473	34 574	
−1 539c	27 540	26.71	41.67	75.73	0.1853	0.2891	0.5254	202.6	15 475	35 578	
−1 545c	29 545	30.16	49.14	75.79	0.1944	0.3168	0.4886	195.3	15 477	36 582	
−1 549c	29 550	30.16	49.14	75.79	0.1944	0.3168	0.4886	195.3	15 477	36 582	
−1 554c	30 555	32.37	52.99	75.8	0.2008	0.3287	0.4703	191.9	15 478	36 584	
−1 560c	32 560	37.87	60.74	75.8	0.2171	0.3482	0.4346	185.7	16 480	38 590	
380	770	88.41	88.59	67.15	0.3621	0.3628	0.275	0.0			

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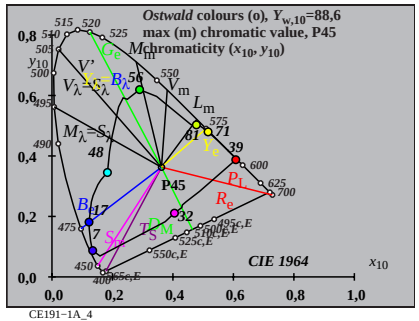
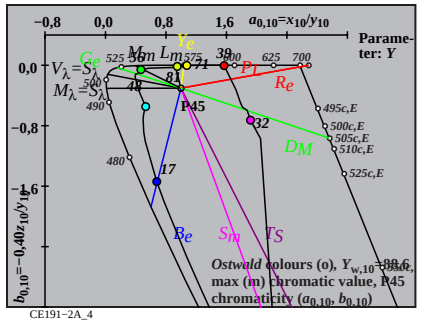


CE191−1A_4



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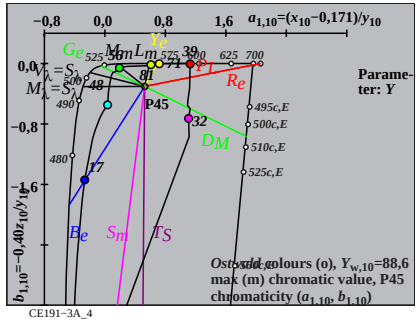

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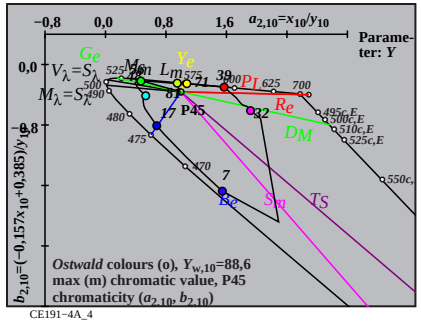

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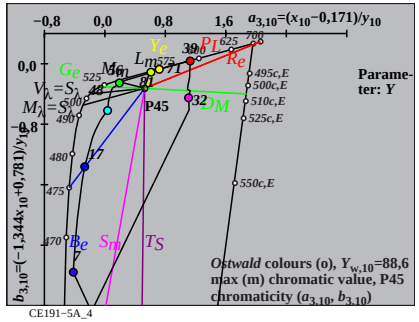
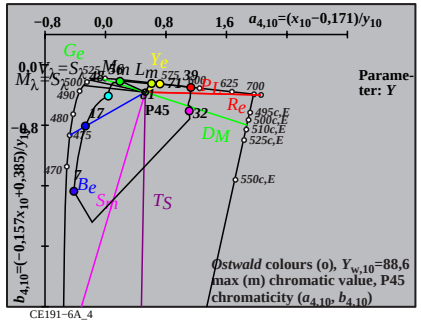


CE191−5A_4



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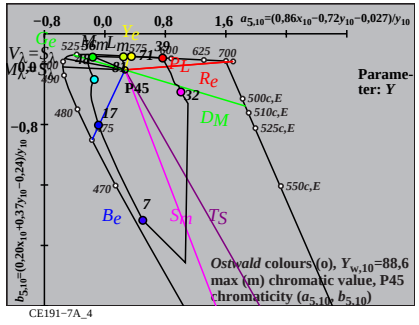

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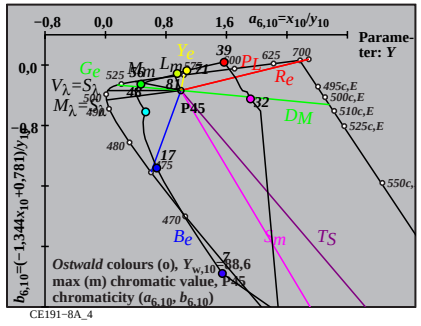
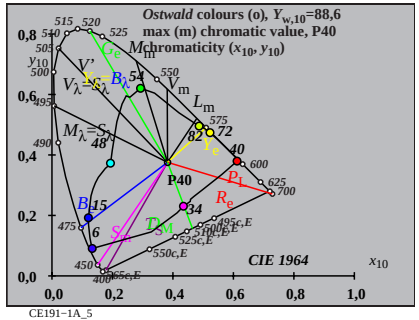


CE191−8A_4

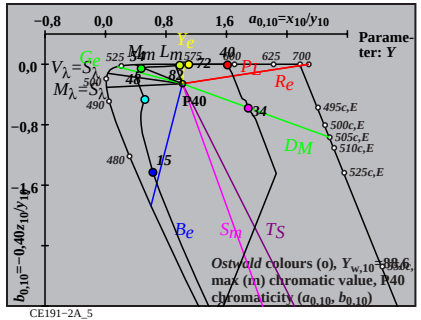
***Ostwald* optimal colours (o) of maximum (m) $C_{AB,10}$ for P40, $Y_{w,10}$=88,6, Y_m=520_770**

i_1, λ_1	i_2, λ_2	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
0 405	32 563	25.22	48.29	56.71	0.1937	0.3708	0.4354	181.4	16 481	38 591	Cm
7 435	32 564	22.5	48.56	40.64	0.2014	0.4347	0.3638	161.8	17 487	−1 487c	
10 450	33 565	20.53	48.79	26.34	0.2146	0.5099	0.2753	141.2	19 495	−1 495c	
12 460	33 567	20.14	49.38	17.32	0.2319	0.5686	0.1994	127.9	21 505	−1 505c	
12 465	33 568	21.3	50.64	17.32	0.2386	0.5673	0.194	126.8	21 506	−1 506c	
14 470	34 571	22.34	51.74	10.14	0.2652	0.6142	0.1204	116.0	24 521	−1 521c	
15 475	35 576	25.73	54.48	7.56	0.2931	0.6206	0.0861	109.9	26 531	−1 531c	Gm
16 480	37 585	33.82	60.22	5.58	0.3394	0.6044	0.056	100.5	28 542	−1 542c	
17 485	42 611	57.84	73.36	4.1	0.4274	0.5421	0.0303	74.7	31 558	−1 558c	
17 490	−1 489c	80.89	83.41	4.1	0.4803	0.4952	0.0243	50.6	33 566	11 458	max
19 495	−1 495c	80.84	80.92	2.17	0.4931	0.4935	0.0132	46.7	33 568	12 463	
20 500	−1 500c	80.81	79.31	1.56	0.4998	0.4905	0.0096	44.3	33 569	13 465	
22 510	−1 510c	80.54	75.25	0.78	0.5143	0.4805	0.005	38.4	34 571	13 469	
23 520	−1 519c	80.22	72.76	0.54	0.5225	0.4739	0.0035	35.0	34 572	14 471	Ym
25 530	−1 529c	78.98	66.96	0.22	0.5403	0.4581	0.0015	27.5	35 575	14 474	
28 540	−1 540c	75.19	56.6	0.03	0.5703	0.4293	0.0002	15.9	36 581	15 477	
28 545	−1 544c	75.19	56.6	0.03	0.5703	0.4293	0.0002	15.9	36 581	15 477	
30 550	−1 550c	71.13	49.03	0.0	0.5919	0.408	0.0	8.7	37 585	15 479	
31 555	−1 555c	68.55	45.14	0.0	0.6029	0.397	0.0	5.5	37 587	16 480	
31 560	−1 559c	68.55	45.14	0.0	0.6029	0.397	0.0	5.5	37 587	16 480	
32 563	0 405	76.52	51.7	7.73	0.5628	0.3803	0.0568	1.4	38 591	16 481	Rm
32 564	7 435	79.24	51.43	23.8	0.5129	0.3329	0.154	341.9	−1 487c	17 487	
33 565	10 450	81.21	51.2	38.09	0.4762	0.3003	0.2234	321.3	−1 495c	19 495	
33 567	12 460	81.6	50.61	47.12	0.455	0.2822	0.2627	307.9	−1 505c	21 505	
33 568	12 465	80.44	49.35	47.12	0.4547	0.2789	0.2663	306.8	−1 506c	21 506	
34 571	14 470	79.4	48.25	54.29	0.4363	0.2651	0.2984	296.1	−1 521c	24 521	
35 576	15 475	76.01	45.51	56.88	0.426	0.255	0.3188	290.0	−1 531c	26 531	Mm
37 585	16 480	67.92	39.77	58.85	0.4078	0.2387	0.3533	280.6	−1 542c	28 542	
42 611	17 485	43.9	26.63	60.34	0.3354	0.2034	0.461	254.8	−1 558c	31 558	
−1 489c	17 490	20.85	16.58	60.34	0.2132	0.1696	0.6171	230.6	11 458	33 566	min
−1 495c	19 495	20.9	19.07	62.27	0.2044	0.1865	0.609	226.7	12 463	33 568	
−1 500c	20 500	20.93	20.68	62.88	0.2003	0.1979	0.6017	224.3	13 465	33 569	
−1 510c	22 510	21.2	24.74	63.66	0.1934	0.2257	0.5807	218.4	13 469	34 571	
−1 519c	23 520	21.53	27.23	63.9	0.191	0.2417	0.5671	215.0	14 471	34 572	Bm
−1 529c	25 530	22.76	33.03	64.21	0.1897	0.2752	0.535	207.5	14 474	35 575	
−1 540c	28 540	26.55	43.39	64.41	0.1976	0.3229	0.4794	195.9	15 477	36 581	
−1 544c	28 545	26.55	43.39	64.41	0.1976	0.3229	0.4794	195.9	15 477	36 581	
−1 550c	30 550	30.61	50.96	64.44	0.2096	0.349	0.4413	188.7	15 479	37 585	
−1 555c	31 555	33.19	54.85	64.44	0.2176	0.3597	0.4226	185.5	16 480	37 587	
−1 559c	31 560	33.19	54.85	64.44	0.2176	0.3597	0.4226	185.5	16 480	37 587	
380	770	90.14	88.59	57.09	0.3822	0.3756	0.2421	0.0			

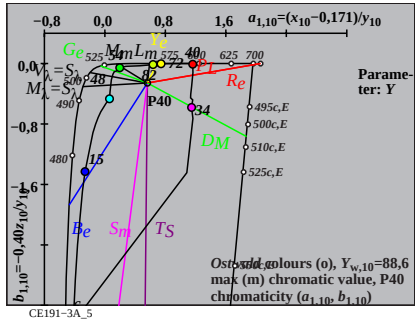
1−001430−L0 CE190−7N_16



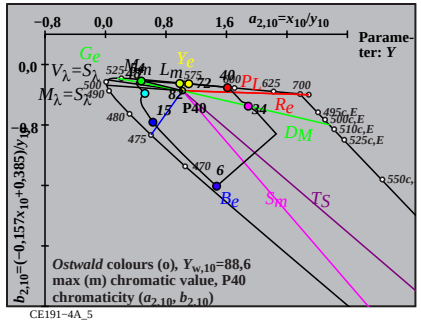
CE191−1A_5



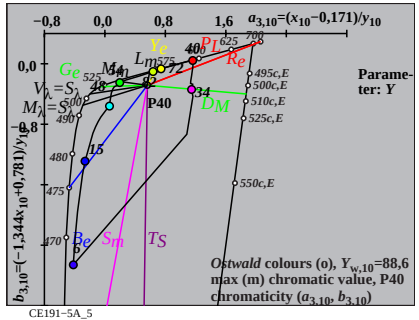
CE191−2A_5



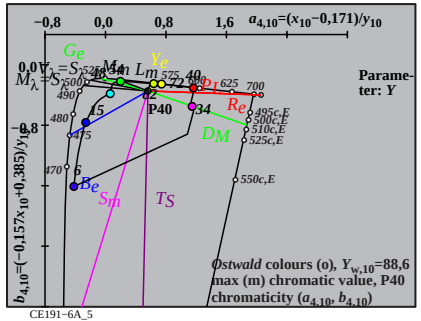
CE191−3A_5



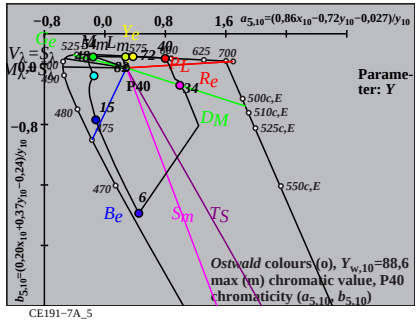
CE191−4A_5



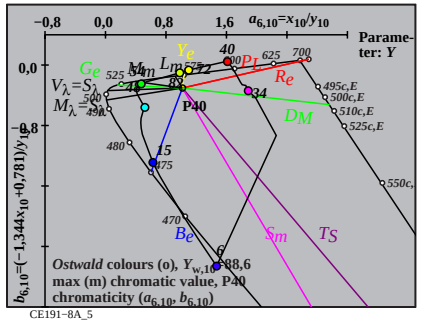
CE191−5A_5



CE191−6A_5



CE191−7A_5



CE191−8A_5

TUB-test chart CE19; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}$, $b_{i,10}$) input: *w/rgb/cmyk −> rgb*
Ostwald optimal colours for illuminant P40; diagram for illuminant P40, $Y_{w,10}$=88,6

***Ostwald* 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	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	33 566	24.58	47.6	45.57	0.2087	0.4042	0.387	175.7	16 484	38 594	Cm
7 435	33 566	22.69	47.85	33.77	0.2175	0.4586	0.3237	159.9	17 488	58 694	
10 450	33 567	21.16	48.03	22.38	0.231	0.5245	0.2444	142.5	19 496	−1 496c	
12 460	33 568	20.84	48.52	14.97	0.2471	0.5753	0.1775	130.7	21 505	−1 505c	
12 465	34 570	21.81	49.55	14.97	0.2526	0.5739	0.1734	129.9	21 506	−1 506c	
14 470	34 572	22.69	50.39	8.93	0.2766	0.6144	0.1089	120.1	24 521	−1 521c	
14 475	35 576	25.65	53.14	8.93	0.2924	0.6057	0.1018	118.0	24 524	−1 524c	Gm
16 480	36 583	31.45	56.92	5.01	0.3368	0.6094	0.0537	107.8	28 540	−1 540c	
17 485	39 598	46.34	65.95	3.71	0.3994	0.5684	0.032	92.5	30 552	−1 552c	
17 490	−1 489c	85.42	84.24	3.71	0.4926	0.4858	0.0214	48.6	33 568	11 459	max
18 495	−1 494c	85.39	83.23	2.73	0.4982	0.4857	0.0159	46.7	33 569	12 461	
19 500	−1 499c	85.37	82.02	2.0	0.5039	0.4841	0.0118	44.5	34 570	12 464	
22 510	−1 510c	85.1	76.84	0.74	0.523	0.4723	0.0045	35.7	34 572	14 470	
24 520	−1 520c	84.31	71.92	0.34	0.5384	0.4593	0.0022	28.1	35 575	14 473	Ym
26 530	−1 530c	82.68	65.94	0.13	0.5558	0.4432	0.0008	20.0	35 578	15 476	
27 540	−1 539c	81.47	62.59	0.07	0.5652	0.4342	0.0005	15.9	36 580	15 478	
28 545	−1 544c	79.96	59.06	0.03	0.575	0.4246	0.0002	11.9	36 581	15 479	
30 550	−1 550c	75.95	51.59	0.0	0.5954	0.4044	0.0	4.6	37 586	16 481	
31 555	−1 555c	73.38	47.71	0.0	0.6059	0.394	0.0	1.3	37 588	16 482	
32 560	−1 560c	70.4	43.78	0.0	0.6165	0.3834	0.0	358.3	38 591	16 483	
33 566	1 405	80.13	52.39	6.58	0.576	0.3766	0.0473	355.7	38 594	16 484	Rm
33 566	7 435	82.02	52.14	18.38	0.5376	0.3418	0.1205	339.9	58 694	17 488	
33 567	10 450	83.55	51.96	29.77	0.5054	0.3143	0.1801	322.5	−1 496c	19 496	
33 568	12 460	83.87	51.47	37.18	0.4861	0.2983	0.2155	310.8	−1 505c	21 505	
34 570	12 465	82.9	50.44	37.18	0.4861	0.2958	0.218	310.0	−1 506c	21 506	
34 572	14 470	82.02	49.6	43.22	0.4691	0.2836	0.2472	300.2	−1 521c	24 521	
35 576	14 475	79.05	46.85	43.22	0.4674	0.277	0.2555	298.0	−1 524c	24 524	Mm
36 583	16 480	73.25	43.07	47.14	0.4481	0.2634	0.2883	287.8	−1 540c	28 540	
39 598	17 485	58.36	34.04	48.44	0.4143	0.2417	0.3439	272.6	−1 552c	30 552	
−1 489c	17 490	19.29	15.75	48.44	0.231	0.1887	0.5802	228.6	11 459	33 568	min
−1 494c	18 495	19.32	16.76	49.42	0.2259	0.196	0.5779	226.7	12 461	33 569	
−1 499c	19 500	19.33	17.97	50.15	0.221	0.2055	0.5734	224.5	12 464	34 570	
−1 510c	22 510	19.61	23.15	51.41	0.2082	0.2458	0.5459	215.7	14 470	34 572	
−1 520c	24 520	20.39	28.07	51.81	0.2033	0.2799	0.5166	208.1	14 473	35 575	Bm
−1 530c	26 530	22.02	34.05	52.02	0.2037	0.315	0.4812	200.0	15 476	35 578	
−1 539c	27 540	23.23	37.4	52.08	0.2061	0.3318	0.462	195.9	15 478	36 580	
−1 544c	28 545	24.74	40.93	52.12	0.21	0.3474	0.4424	191.9	15 479	36 581	
−1 550c	30 550	28.75	48.4	52.15	0.2223	0.3742	0.4033	184.6	16 481	37 586	
−1 555c	31 555	31.32	52.28	52.16	0.2307	0.385	0.3841	181.3	16 482	37 588	
−1 560c	32 560	34.3	56.21	52.16	0.2404	0.3939	0.3655	178.3	16 483	38 591	
380	770	92.76	88.58	46.2	0.4076	0.3892	0.203	0.0			

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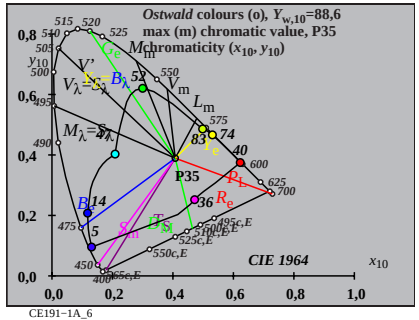

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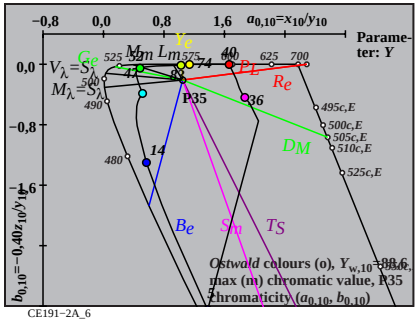

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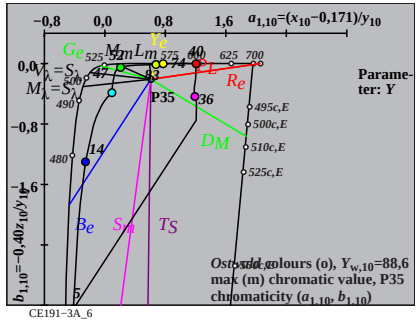

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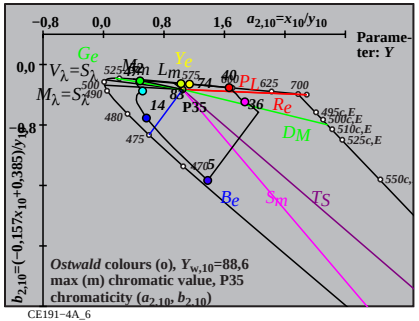

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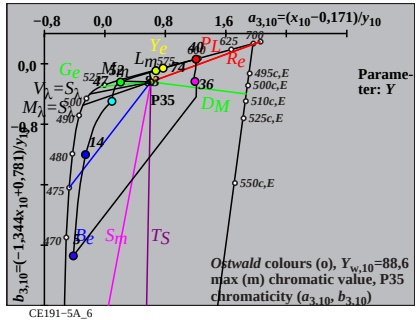

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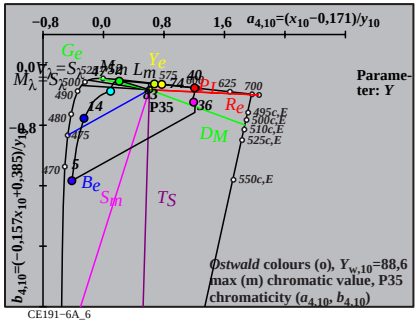

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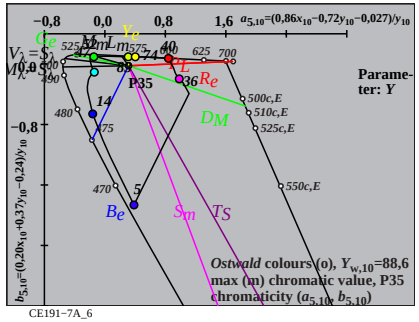

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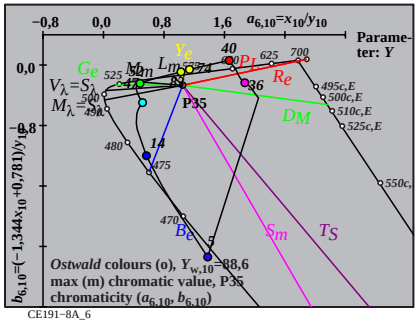

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TUB-test chart CE19; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}$, $b_{i,10}$) input: *w/rgb/cmyk −> rgb*
Ostwald optimal colours for illuminant P35; diagram for illuminant P35, $Y_{w,10}$=88,6

***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	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	33 569	24.39	46.66	34.33	0.2314	0.4427	0.3257	169.0	17 486	39 596	Cm
6 435	33 569	23.58	46.93	28.55	0.238	0.4737	0.2882	160.5	17 489	43 615	
9 450	34 570	22.58	47.16	20.79	0.2493	0.5209	0.2296	148.0	18 494	−1 494c	
12 460	34 571	21.88	47.38	12.23	0.2685	0.5813	0.1501	133.7	21 505	−1 505c	
13 465	34 572	22.29	47.85	9.68	0.2792	0.5994	0.1213	129.1	22 512	−1 512c	
14 470	34 573	23.33	48.77	7.48	0.2931	0.6127	0.094	124.8	24 520	−1 520c	
14 475	35 576	25.6	50.81	7.48	0.3051	0.6055	0.0892	123.5	24 523	−1 523c	Gm
15 480	36 581	29.83	54.03	5.7	0.3331	0.6031	0.0637	117.9	26 534	−1 534c	
16 485	38 590	38.86	60.04	4.31	0.3765	0.5817	0.0417	109.4	29 546	−1 546c	
18 490	44 620	69.93	75.29	2.41	0.4737	0.5099	0.0163	72.4	32 564	−1 564c	max
19 495	−1 495c	91.41	83.28	1.78	0.5179	0.4719	0.0101	41.6	34 572	13 465	
20 500	−1 500c	91.38	82.02	1.3	0.523	0.4694	0.0074	38.8	34 572	13 467	
21 510	−1 509c	91.31	80.52	0.95	0.5284	0.466	0.0055	35.6	34 573	13 469	
23 520	−1 519c	90.89	76.65	0.47	0.5409	0.4562	0.0028	27.9	35 575	14 473	Ym
26 530	−1 530c	88.93	68.71	0.12	0.5636	0.4355	0.0008	14.9	35 579	15 478	
28 540	−1 540c	86.34	62.16	0.03	0.5812	0.4185	0.0002	6.4	36 583	16 481	
29 545	−1 545c	84.57	58.61	0.01	0.5906	0.4093	0.0	2.6	37 585	16 482	
30 550	−1 550c	82.44	54.9	0.0	0.6002	0.3997	0.0	359.0	37 587	16 483	
31 555	−1 555c	79.89	51.06	0.0	0.61	0.3899	0.0	355.8	37 589	16 484	
32 560	−1 560c	76.91	47.13	0.0	0.62	0.3799	0.0	352.8	38 592	17 485	
33 569	1 405	84.89	53.33	4.86	0.5932	0.3727	0.034	349.0	39 596	17 486	Rm
33 569	6 435	85.7	53.06	10.64	0.5736	0.3551	0.0712	340.5	43 615	17 489	
34 570	9 450	86.71	52.83	18.4	0.5489	0.3344	0.1165	328.1	−1 494c	18 494	
34 571	12 460	87.4	52.61	26.96	0.5234	0.3151	0.1614	313.7	−1 505c	21 505	
34 572	13 465	87.0	52.14	29.51	0.5158	0.3091	0.1749	309.2	−1 512c	22 512	
34 573	14 470	85.95	51.22	31.71	0.5089	0.3033	0.1877	304.9	−1 520c	24 520	
35 576	14 475	83.68	49.18	31.71	0.5084	0.2988	0.1926	303.5	−1 523c	24 523	Mm
36 581	15 480	79.45	45.96	33.49	0.4999	0.2892	0.2107	298.0	−1 534c	26 534	
38 590	16 485	70.42	39.95	34.88	0.4848	0.275	0.2401	289.4	−1 546c	29 546	
44 620	18 490	39.35	24.7	36.78	0.3902	0.245	0.3647	252.5	−1 564c	32 564	min
−1 495c	19 495	17.88	16.71	37.41	0.2483	0.2321	0.5195	221.6	13 465	34 572	
−1 500c	20 500	17.9	17.97	37.89	0.2427	0.2436	0.5136	218.8	13 467	34 572	
−1 509c	21 510	17.97	19.47	38.24	0.2374	0.2572	0.5052	215.6	13 469	34 573	
−1 519c	23 520	18.4	23.34	38.72	0.2286	0.2901	0.4811	208.0	14 473	35 575	Bm
−1 530c	26 530	20.35	31.28	39.07	0.2244	0.3448	0.4307	194.9	15 478	35 579	
−1 540c	28 540	22.94	37.83	39.16	0.2295	0.3785	0.3918	186.4	16 481	36 583	
−1 545c	29 545	24.71	41.38	39.18	0.2347	0.393	0.3721	182.6	16 482	37 585	
−1 550c	30 550	26.85	45.09	39.19	0.2415	0.4057	0.3526	179.0	16 483	37 587	
−1 555c	31 555	29.39	48.93	39.19	0.2501	0.4163	0.3335	175.7	16 484	37 589	
−1 560c	32 560	32.37	52.86	39.19	0.2601	0.4248	0.315	172.8	17 485	38 592	
380	770	96.82	88.58	34.72	0.4398	0.4024	0.1577	0.0			

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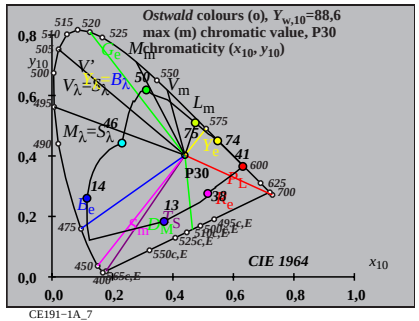

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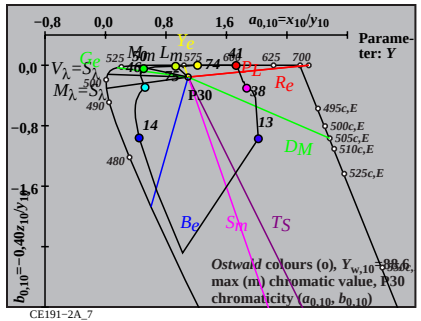

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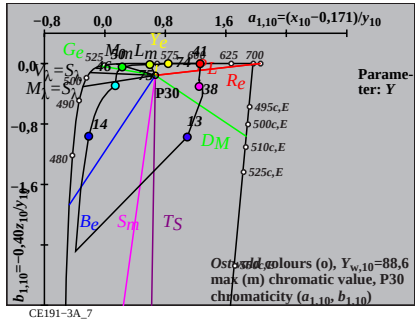

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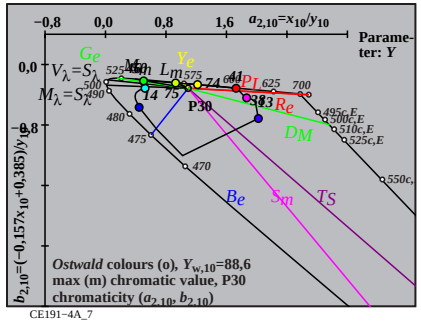

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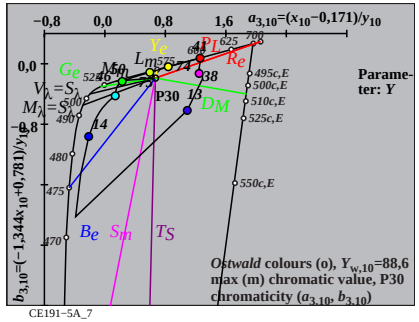

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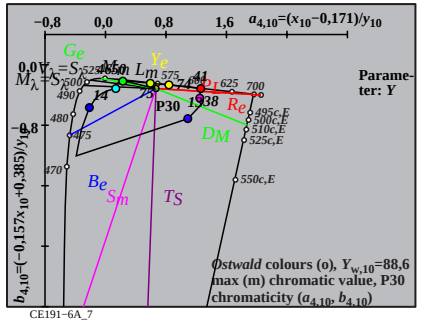

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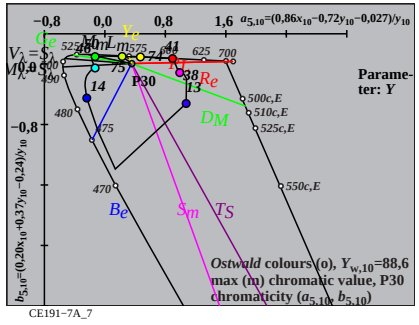

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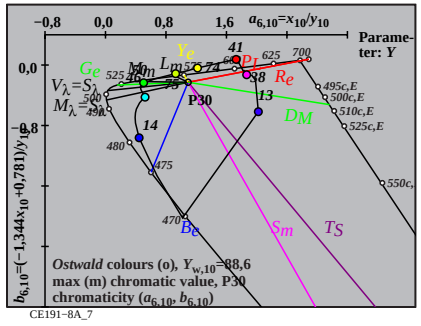

CE191−8A_7

TUB-test chart CE19; CIE (x_{10}, y_{10}) and chromaticities ($a_{i,10}$, $b_{i,10}$) input: *w/rgb/cmyk −> rgb*
Ostwald optimal colours for illuminant P30; diagram for illuminant P30, $Y_{w,10}$=88,6

***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	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d, λ_d	i_c, λ_c	Code
1 405	34 573	24.85	45.26	22.95	0.267	0.4863	0.2466	160.7	18 490	39 599	Cm
6 435	34 573	24.45	45.45	19.65	0.273	0.5075	0.2194	155.2	18 492	42 613	
9 450	34 573	23.88	45.62	14.82	0.2832	0.541	0.1757	146.7	19 497	−1 497c	
12 460	34 574	23.43	45.78	9.11	0.2991	0.5844	0.1163	136.3	21 506	−1 506c	
12 465	35 575	23.99	46.3	9.11	0.3021	0.5831	0.1147	136.1	21 507	−1 507c	
13 470	35 576	24.73	46.96	7.33	0.3129	0.5942	0.0928	132.5	22 513	−1 513c	
15 475	35 577	25.96	47.73	4.47	0.3321	0.6105	0.0572	126.7	25 527	−1 527c	Gm
16 480	36 580	28.79	49.71	3.44	0.3513	0.6066	0.042	123.4	27 536	−1 536c	
17 485	37 586	34.08	53.19	2.62	0.3791	0.5916	0.0292	119.3	28 544	−1 544c	
18 490	39 597	46.89	60.81	1.98	0.4274	0.5543	0.0181	110.3	31 555	−1 555c	max
19 495	58 690	99.34	84.52	1.49	0.5359	0.4559	0.008	38.2	35 575	13 466	
20 500	−1 500c	99.75	83.67	1.11	0.5405	0.4534	0.006	34.4	35 575	13 469	
21 510	−1 509c	99.69	82.44	0.82	0.5448	0.4506	0.0044	30.7	35 576	14 471	
24 520	−1 520c	98.95	77.12	0.29	0.561	0.4372	0.0016	17.3	35 579	15 477	Ym
26 530	−1 530c	97.6	72.18	0.11	0.5744	0.4248	0.0006	7.7	36 581	16 481	
27 540	−1 539c	96.56	69.3	0.06	0.5819	0.4176	0.0003	3.1	36 583	16 482	
28 545	−1 544c	95.22	66.17	0.03	0.5898	0.4099	0.0001	358.8	37 585	16 484	
29 550	−1 549c	93.56	62.83	0.01	0.5982	0.4017	0.0	354.9	37 586	17 485	
31 555	−1 555c	89.05	55.56	0.0	0.6157	0.3842	0.0	348.3	38 591	17 487	
31 560	−1 559c	89.05	55.56	0.0	0.6157	0.3842	0.0	348.3	38 591	17 487	
34 573	1 405	91.68	54.73	3.18	0.6128	0.3658	0.0212	340.8	39 599	18 490	Rm
34 573	6 435	92.09	54.54	6.48	0.6014	0.3562	0.0423	335.2	42 613	18 492	
34 573	9 450	92.66	54.37	11.31	0.5851	0.3433	0.0714	326.8	−1 497c	19 497	
34 574	12 460	93.1	54.21	17.02	0.5665	0.3298	0.1035	316.4	−1 506c	21 506	
35 575	12 465	92.55	53.69	17.02	0.5668	0.3288	0.1042	316.1	−1 507c	21 507	
35 576	13 470	91.81	53.03	18.79	0.561	0.324	0.1148	312.6	−1 513c	22 513	
35 577	15 475	90.57	52.26	21.65	0.5505	0.3177	0.1316	306.7	−1 527c	25 527	Mm
36 580	16 480	87.75	50.28	22.69	0.5459	0.3128	0.1411	303.5	−1 536c	27 536	
37 586	17 485	82.45	46.8	23.51	0.5397	0.3063	0.1539	299.4	−1 544c	28 544	
39 597	18 490	69.65	39.18	24.14	0.5237	0.2946	0.1815	290.3	−1 555c	31 555	min
58 690	19 495	17.2	15.47	24.64	0.3001	0.2699	0.4298	218.2	13 466	35 575	
−1 500c	20 500	16.78	16.32	25.02	0.2888	0.2807	0.4304	214.4	13 469	35 575	
−1 509c	21 510	16.84	17.55	25.31	0.2821	0.2939	0.4239	210.8	14 471	35 576	
−1 520c	24 520	17.58	22.87	25.84	0.2652	0.3449	0.3898	197.3	15 477	35 579	Bm
−1 530c	26 530	18.93	27.81	26.02	0.2602	0.3822	0.3575	187.7	16 481	36 581	
−1 539c	27 540	19.97	30.69	26.07	0.2603	0.3999	0.3397	183.1	16 482	36 583	
−1 544c	28 545	21.31	33.82	26.1	0.2623	0.4163	0.3213	178.8	16 484	37 585	
−1 549c	29 550	22.98	37.16	26.12	0.2663	0.4308	0.3028	174.9	17 485	37 586	
−1 555c	31 555	27.49	44.43	26.13	0.2803	0.4531	0.2665	168.3	17 487	38 591	
−1 559c	31 560	27.49	44.43	26.13	0.2803	0.4531	0.2665	168.3	17 487	38 591	
380	770	103.24	88.58	23.15	0.4802	0.412	0.1077	0.0			

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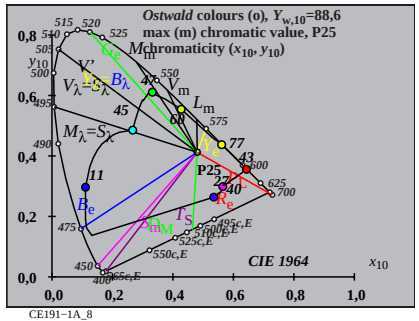

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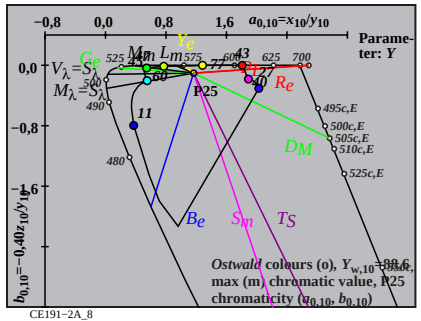

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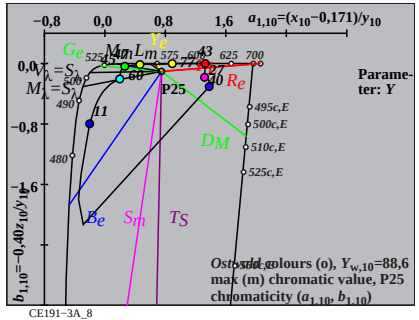

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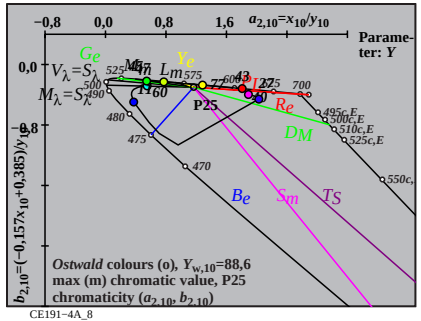

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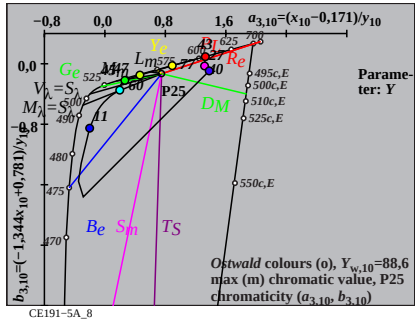

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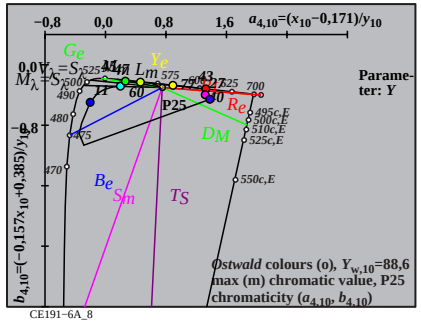

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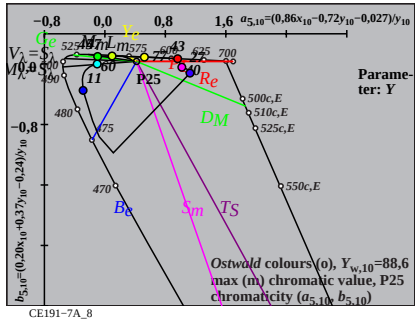

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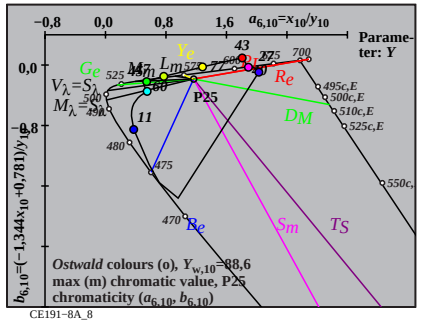

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