

see similar files: <http://farbe.li.tu-berlin.de/BE73/BE73.HTM>
technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; D65, Y _m =510_770, CIEXYZ												
Code	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	z ₁₀	h _{xy,10}	i _d	λ _d	i _c	λ _c	
R _{me} 570_770	50.05	30.91	0.38	0.6152	0.38	0.0047	237.0	38	591	15	478	
Y _{me} 510_770	69.07	73.92	1.69	0.4773	0.5109	0.0117	225.3	33	565	13	465	
G _{me} 470_570	21.16	55.69	19.95	0.2186	0.5753	0.206	211.0	23	515	-1	515c	
C _m 380_570	35.6	59.43	96.6	0.1858	0.3101	0.504	214.4	15	478	38	591	
B _{me} 380_510	16.59	16.42	95.29	0.1293	0.1279	0.7426	226.8	13	465	33	565	
M _m 570_470	64.49	34.64	77.01	0.3661	0.1966	0.4371	245.1	-1	515c	23	515	
R _o 570_440	55.88	31.63	28.92	0.4799	0.2716	0.2483	240.3	-1	484c	16	484	
G _o 520_570	19.35	43.35	1.69	0.3005	0.6731	0.0263	216.8	27	538	-1	538c	
W ₁ 380_770	85.33	90.0	96.6	0.3137	0.3309	0.3552	226.5	-1	494c	18	494	

BE731-1A_1

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; D65, Y _m =510_770, YAB_77												
Code	Y ₁₀	A ₁₀	B ₁₀	C _{AB,10}	a ₁₀	b ₁₀	h _{AB,10}	i _d	λ _d	i _c	λ _c	
R _{me} 570_770	30.91	20.73	13.11	24.53	1.6189	-0.0049	32.3	38	591	15	478	
Y _{me} 510_770	73.92	-1.01	31.06	31.07	0.9343	-0.0091	91.8	33	565	13	468	
G _{me} 470_570	55.69	-31.64	15.93	35.42	0.3799	-0.1432	153.2	23	517	-1	517c	
C _m 380_570	59.43	-20.73	-13.12	24.54	0.5991	-0.6501	212.3	15	478	38	591	
B _{me} 380_510	16.42	1.02	-31.06	31.08	1.0105	-2.3212	271.8	13	465	32	562	
M _m 570_470	34.64	31.64	-15.93	35.42	1.8614	-0.8891	333.2	-1	503c	20	503	
R _o 570_440	31.63	25.89	2.01	25.96	1.7664	-0.3656	4.4	-1	483c	16	483	
G _o 520_570	43.35	-21.75	17.93	28.19	0.4464	-0.0156	140.4	27	538	-1	538c	
W ₁ 380_770	90.0	0.0	0.0	0.01	0.9481	-0.4293	0.0	38	594	15	478	

BE731-3A_1

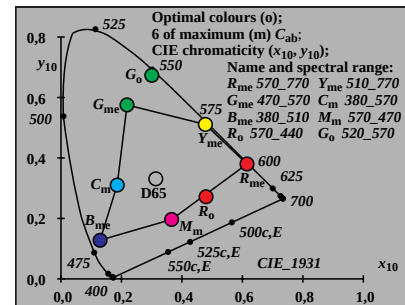
Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; D65, Y _m =510_770, CIELAB_76												
Code	L* ₁₀	a* ₁₀	b* ₁₀	C* _{ab,10}	a* ₁₀	b* ₁₀	h _{ab,10}	i _d	λ _d	i _c	λ _c	
R _{me} 570_770	62.44	65.99	101.64	121.19	0.2575	-0.0195	57.0	40	602	14	470	
Y _{me} 510_770	88.89	-2.19	130.56	130.58	0.2144	-0.0239	90.9	33	565	13	465	
G _{me} 470_570	79.44	-108.0550.4	119.23	0.1588	-0.0597	154.9	22	513	-1	513c		
C _m 380_570	81.53	-59.62	-24.94	64.63	0.1849	-0.0989	202.7	15	476	-1	476c	
B _{me} 380_510	47.53	5.87	-82.68	82.89	0.2201	-0.1512	274.0	13	465	32	562	
M _m 570_470	65.48	88.54	-38.57	96.57	0.2698	-0.1098	336.4	-1	511c	22	511	
R _o 570_440	63.05	78.51	7.1	78.83	0.2651	-0.0816	5.1	-1	482c	16	482	
G _o 520_570	71.8	-84.01	101.1	131.45	0.1676	-0.0285	129.7	27	535	9	449	
W ₁ 380_770	96.0	0.0	0.0	0.0	0.2154	-0.0861	338.8	-1	510c	22	510	

BE731-5A_1

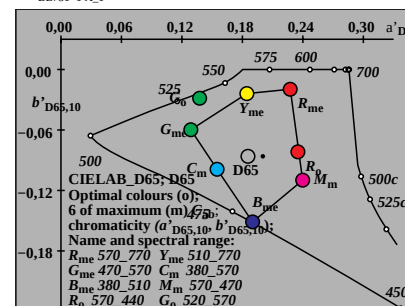
Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; D65, Y _m =510_770, LABHNU1_79												
Code	D65	L* ₁₀	A* ₁₀	B* ₁₀	C* _{ab,10}	a* ₁₀	b* ₁₀	h _{ab,10}	i _d	λ _d	i _c	λ _c
R _{me} 570_770		62.44	70.17	66.75	96.85	0.1745	-0.0469	43.5	38	592	14	473
Y _{me} 510_770		88.89	-1.92	87.39	87.41	0.1289	-0.0478	91.2	33	565	13	465
G _{me} 470_570		79.44	-72.31	42.58	83.92	0.0919	-0.0672	149.5	21	508	8	440
C _m 380_570		81.53	-45.38	-22.81	50.79	0.1066	-0.1012	206.6	15	477	4	622
B _{me} 380_510		47.53	5.28	-78.32	78.5	0.134	-0.1511	273.8	13	465	32	564
M _m 570_470		65.48	99.23	-35.65	105.44	0.1907	-0.1114	340.2	2	413	19	498
R _o 570_440		63.05	86.25	6.33	86.49	0.1844	-0.0855	4.2	-1	484c	16	484
G _o 520_570		71.8	-58.74	70.82	92.02	0.0964	-0.0491	129.6	27	536	11	455
W ₁ 380_770		96.0	0.0	0.0	0.0	0.1298	-0.0895	0.0	-1	486c	17	486

BE731-7A_1

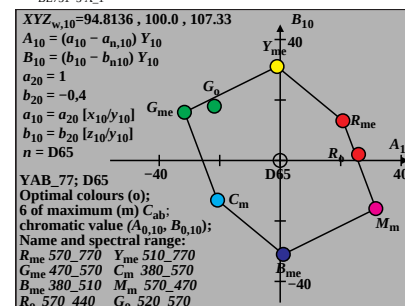
TUB-test chart BE73; Colorimetry of Ostwald optimal colours; K=25:1 input: w/rgb/cmyk->rgb
colour spaces CIEXYZ, YAB_77, CIELAB, LABHNU1_79; illuminant D65 ; CIE 10 degree



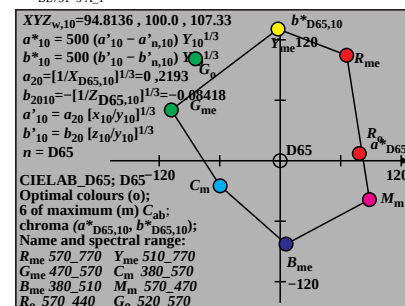
BE731-1 A_1



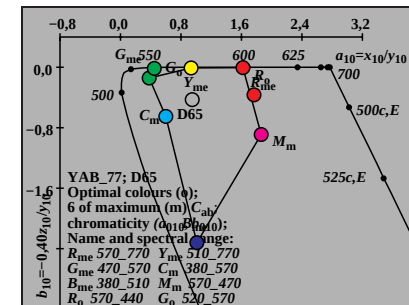
BE731-3 A_1



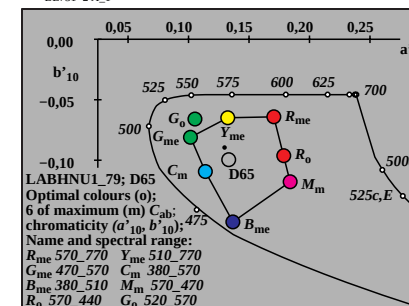
BE731-5 A_1



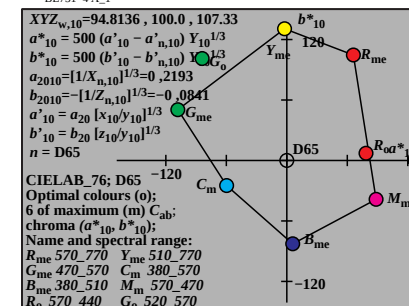
BE731-7 A_1



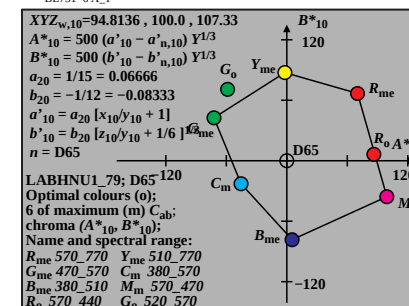
BE731-2 A_1



BE731-4 A_1



BE731-6 A_1



BE731-8 A_1

TUB registration: 20170801-BE73/BE73L0NA.TXT /PS
application for measurement of display output

TUB material: code=rha4ta

see similar files: <http://farbe.li.tu-berlin.de/BE73/BE73.HTM>
technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20170801-BE73/BE73L0NA.TXT /PS
application for measurement of display output

TUB material: code=rha4ta

Optimal colours (o) RYGBCM of maximum (m) $C_{AB,10}$; D50, $Y_m=510_770$, CIEXYZ

Code	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d	λ_d	i_c	λ_c
R_{me} 570_770	55.92	34.03	0.29	0.6196	0.3771	0.0032	238.2	38	592	16	480
Y_{me} 510_770	74.98	76.39	1.52	0.4903	0.4996	0.0099	227.3	33	567	13	466
G_{me} 470_570	20.9	53.47	16.89	0.229	0.5858	0.1851	211.5	22	513	-1	513c
C_m 380_570	31.46	56.31	73.27	0.1953	0.3496	0.4549	213.8	16	480	38	592
B_{me} 380_510	12.41	13.95	72.03	0.1262	0.1418	0.7319	225.5	13	466	33	567
M_m 570_470	66.48	36.87	56.64	0.4155	0.2304	0.354	244.4	-1	512c	22	512
R_o 570_440	59.87	34.52	19.66	0.5248	0.3026	0.1724	240.6	-1	486c	17	486
G_o 520_570	19.39	42.7	1.52	0.3048	0.6711	0.024	216.5	27	538	-1	538c
W_1 380_770	87.05	90.0	73.27	0.3477	0.3595	0.2927	225.9	22	512	-1	512c

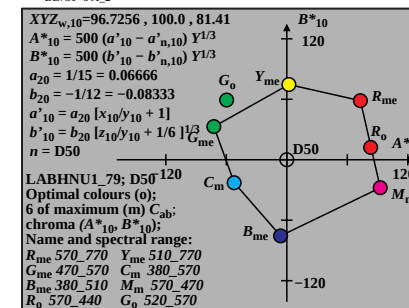
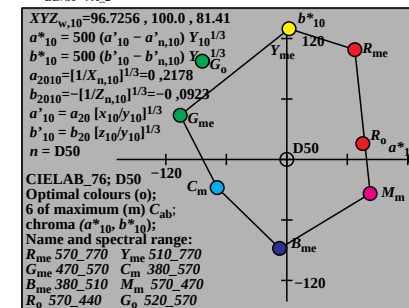
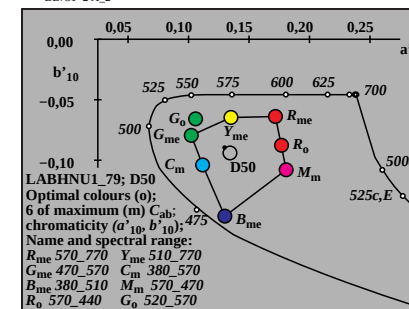
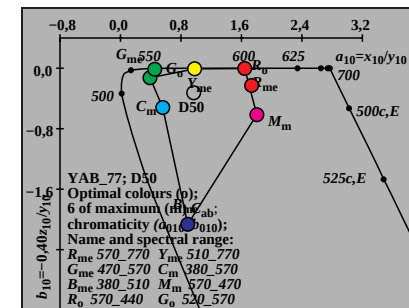
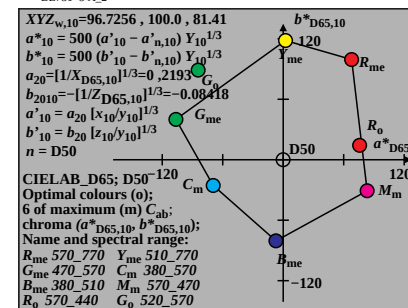
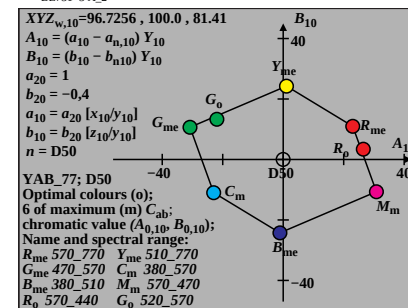
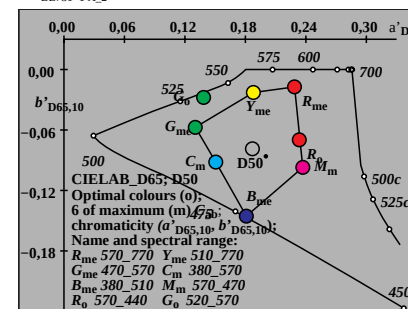
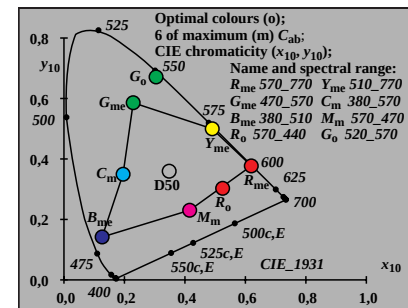
Optimal colours (o) RYGBCM of maximum (m) $C_{AB,10}$; D50, $Y_m=510_770$, YAB_77

Code	Y_{10}	A_{10}	B_{10}	$C_{AB,10}$	a_{10}	b_{10}	$h_{AB,10}$	i_d	λ^*_d	i_c	λ^*_c
R_{me} 570_770	34.03	23.0	10.96	25.48	1.643	-0.0034	25.4	38	592	16	483
Y_{me} 510_770	76.39	1.08	24.26	24.29	0.9814	-0.008	87.4	33	567	13	469
G_{me} 470_570	53.47	-30.81	10.65	32.6	0.3909	-0.1264	160.9	21	508	-1	508c
C_m 380_570	56.31	-22.99	-10.97	25.48	0.5588	-0.5204	205.5	15	479	35	579
B_{me} 380_510	13.95	-1.07	-24.26	24.29	0.8899	-2.0648	267.4	13	466	33	565
M_m 570_470	36.87	30.81	-10.65	32.6	1.803	-0.6145	340.9	-1	531c	26	531
R_o 570_440	34.52	26.47	3.37	26.69	1.7341	-0.2278	7.2	-1	490c	18	490
G_o 520_570	42.7	-21.91	13.29	25.63	0.4541	-0.0143	148.7	27	538	-1	538c
W_1 380_770	90.0	0.0	0.0	0.01	0.9672	-0.3256	51.0	6	430	32	560

Optimal colours (o) RYGBCM of maximum (m) $C_{AB,10}$; D50, $Y_m=510_770$, CIELAB_76											
Code	L^*_{10}	a^*_{10}	b^*_{10}	$C^*_{ab,10}$	a'_{10}	b'_{10}	$h_{ab,10}$	i_d	λ^*_d	i_c	λ^*_c
R_{me} 570_770	64.99	67.42	107.5	126.89	0.257	-0.0189	57.9	39	598	14	470
Y_{me} 510_770	90.04	2.22	129.58	129.6	0.2165	-0.025	89.0	33	567	13	466
G_{me} 470_570	78.15	-105.7543.9		114.5	0.1593	-0.0628	157.4	22	514	-1	514c
C_m 380_570	79.79	-68.99	-27.93	74.43	0.1794	-0.1007	202.0	15	477	-1	477c
B_{me} 380_510	44.18	-7.09	-88.25	88.53	0.2095	-0.1595	265.4	13	466	34	570
M_m 570_470	67.18	82.7	-33.8	89.34	0.2651	-0.1065	337.7	-1	514c	22	514
R_o 570_440	65.38	75.34	15.74	76.97	0.2617	-0.0765	11.8	-1	480c	16	480
G_o 520_570	71.36	-83.85	97.37	128.5	0.1674	-0.0304	130.7	27	537	8	444
W_1 380_770	96.0	0.0	0.0	0.0	0.2154	-0.0861	158.0	22	513	-1	513c

Optimal colours (o) RYGBCM of maximum (m) $C_{AB,10}$; D50, $Y_m=510_770$, LABHNU1_79

Code	$D65$	L^*_{10}	A^*_{10}	B^*_{10}	$C^*_{ab,10}$	a'_{10}	b'_{10}	$h_{ab,10}$	i_d	λ^*_d	i_c	λ^*_c
R_{me} 570_770		64.99	72.99	58.57	93.59	0.1762	-0.0466	38.7	38	593	15	475
Y_{me} 510_770		90.04	2.01	74.59	74.62	0.132	-0.0476	88.4	33	567	13	466
G_{me} 470_570		78.15	-72.36	32.81	79.45	0.0927	-0.0653	155.6	21	508	5	428
C_m 380_570		79.79	-52.17	-22.82	56.94	0.1039	-0.0947	203.6	15	479	44	620
B_{me} 380_510		44.18	-6.19	-75.53	75.78	0.1259	-0.1455	265.3	13	466	33	568
M_m 570_470		67.18	92.71	-27.81	96.79	0.1868	-0.0995	343.2	-1	500c	20	500
R_o 570_440		65.38	83.22	12.28	84.13	0.1822	-0.0752	8.3	-1	485c	17	485
G_o 520_570		71.36	-59.77	59.17	84.1	0.0969	-0.0489	135.2	27	537	10	451
W_1 380_770		96.0	0.0	0.0	0.0	0.1311	-0.0827	143.1	20	500	-1	500c



see similar files: http://farbe.li.tu-berlin.de/BE73/BE73.HTM
technical information: http://farbe.li.tu-berlin.de or http://130.149.60.45/~farbmetrik

TUB registration: 20170801-BE73/BE73LONA.TXT /PS
application for measurement of display output

TUB material: code=rha4ta

Optimal colours (o) RYGBCM of maximum (m) $C_{AB,10}$; P45, $Y_m=510_770$, CIEXYZ

Code	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d	λ_d	i_c	λ_c
R_{me} 570_770	59.68	36.21	0.27	0.6205	0.3765	0.0028	237.8	38	592	16	480
Y_{me} 510_770	78.48	77.47	1.45	0.4986	0.4921	0.0092	226.5	33	568	13	466
G_{me} 470_570	20.5	51.56	15.31	0.2346	0.59	0.1752	211.4	22	512	-1	512c
C_m 380_570	30.48	54.12	68.22	0.1994	0.3541	0.4463	213.4	16	480	38	592
B_{me} 380_510	11.69	12.87	67.04	0.1276	0.1405	0.7318	224.6	13	466	33	568
M_m 570_470	69.66	38.77	53.16	0.431	0.2399	0.3289	243.7	-1	512c	22	512
R_o 570_440	63.89	36.73	20.87	0.5258	0.3023	0.1718	240.4	-1	487c	17	487
G_o 520_570	19.15	41.6	1.45	0.3078	0.6687	0.0233	215.9	27	538	-1	538c
W_1 380_770	89.82	90.0	68.22	0.3621	0.3628	0.275	225.0	-1	482c	16	482

Optimal colours (o) RYGBCM of maximum (m) $C_{AB,10}$; P45, $Y_m=510_770$, YAB_77

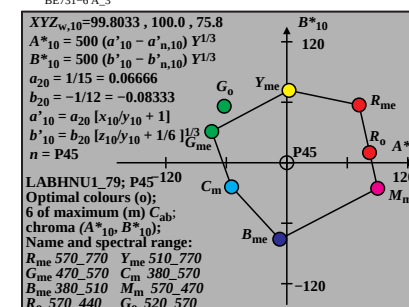
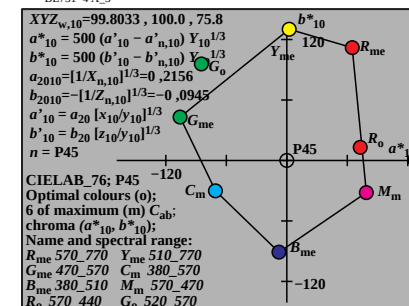
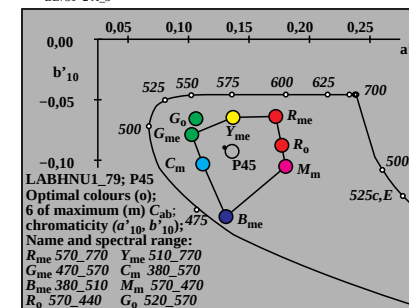
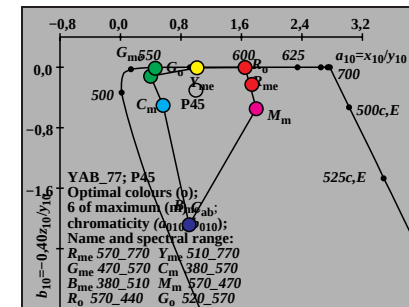
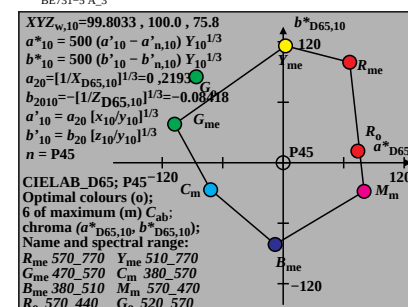
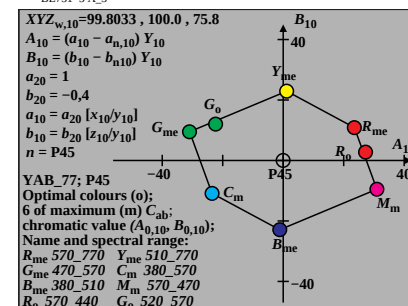
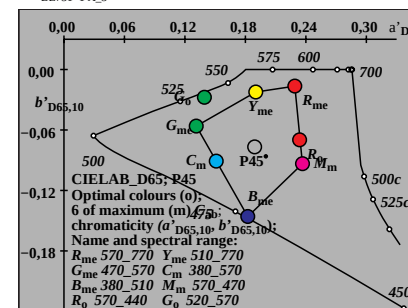
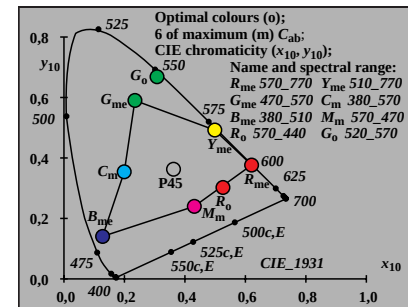
Code	Y_{10}	A_{10}	B_{10}	$C_{AB,10}$	a_{10}	b_{10}	$h_{AB,10}$	i_d	λ^*_d	i_c	λ^*_c
R_{me} 570_770	36.21	23.53	10.87	25.92	1.6478	-0.003	24.7	38	593	16	484
Y_{me} 510_770	77.47	1.16	22.91	22.94	1.013	-0.0074	87.0	33	568	13	467
G_{me} 470_570	51.56	-30.95	9.5	32.38	0.3976	-0.1188	162.9	21	505	-1	505c
C_m 380_570	54.12	-23.53	-10.87	25.92	0.5632	-0.5041	204.8	15	479	35	579
B_{me} 380_510	12.87	-1.15	-22.91	22.94	0.9082	-2.0831	267.1	13	466	33	568
M_m 570_470	38.77	30.96	-9.5	32.38	1.7964	-0.5483	342.9	-1	543c	28	543
R_o 570_440	36.73	27.22	2.78	27.36	1.739	-0.2273	5.8	-1	495c	19	495
G_o 520_570	41.6	-22.37	12.03	25.4	0.4603	-0.0139	151.7	27	538	-1	538c
W_1 380_770	90.0	0.0	0.0	0.01	0.998	-0.3032	2.9	13	465	33	568

Optimal colours (o) RYGBCM of maximum (m) $C_{AB,10}$; P45, $Y_m=510_770$, CIELAB_76

Code	L^*_{10}	a^*_{10}	b^*_{10}	$C^*_{ab,10}$	a^*_{10}	b^*_{10}	$h_{ab,10}$	i_d	λ^*_d	i_c	λ^*_c
R_{me} 570_770	66.69	64.83	110.73	128.32	0.2546	-0.0185	59.6	39	596	14	470
Y_{me} 510_770	90.54	2.29	130.08	130.1	0.2165	-0.0251	88.9	33	569	13	465
G_{me} 470_570	77.02	-105.8943	0	114.29	0.1585	-0.0631	157.8	23	515	-1	515c
C_m 380_570	78.54	-70.73	-30.1	76.87	0.178	-0.1021	203.0	15	477	-1	477c
B_{me} 380_510	42.58	-7.8	-90.97	91.3	0.2088	-0.1638	265.0	13	466	34	572
M_m 570_470	68.59	78.9	-31.84	85.08	0.2621	-0.105	338.0	-1	515c	23	515
R_o 570_440	67.08	72.81	13.11	73.98	0.2592	-0.0782	10.2	-1	482c	16	482
G_o 520_570	70.6	-84.83	95.7	127.89	0.1664	-0.0308	131.5	27	538	8	441
W_1 380_770	96.0	0.0	0.0	0.0	0.2154	-0.0861	0.0	-1	490c	18	490

Optimal colours (o) RYGBCM of maximum (m) $C_{AB,10}$; P45, $Y_m=510_770$, LABHNU1_79

Code	D_{65}	L^*_{10}	A^*_{10}	B^*_{10}	$C^*_{ab,10}$	a^*_{10}	b^*_{10}	$h_{ab,10}$	i_d	λ^*_d	i_c	λ^*_c
R_{me} 570_770		66.69	71.66	57.3	91.75	0.1765	-0.0465	38.6	38	593	15	475
Y_{me} 510_770		90.54	2.13	71.75	71.78	0.1342	-0.0475	88.2	33	568	13	465
G_{me} 470_570		77.02	-74.48	31.04	80.69	0.0931	-0.0645	157.3	21	508	4	423
C_m 380_570		78.54	-54.81	-23.89	59.79	0.1042	-0.0938	203.5	16	480	43	619
B_{me} 380_510		42.58	-7.01	-75.89	76.22	0.1272	-0.1459	264.7	13	466	34	570
M_m 570_470		68.59	90.06	-25.37	93.57	0.1864	-0.0961	344.2	-1	501c	20	501
R_o 570_440		67.08	82.1	9.94	82.7	0.1826	-0.0752	6.9	-1	486c	17	486
G_o 520_570		70.6	-62.09	55.99	83.61	0.0973	-0.0488	137.9	27	537	9	449
W_1 380_770		96.0	0.0	0.0	0.0	0.1332	-0.0811	9.4	33	568	13	465



see similar files: <http://farbe.li.tu-berlin.de/BE73/BE73.HTM>
technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20170801-BE73/BE73L0NA.TXT /PS
application for measurement of display output

TUB material: code=rha4ta

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; A00, Y _m =510_770, CIEXYZ												
Code	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	z ₁₀	h _{xy,10}	i _d	λ _d	i _c	λ _c	
R _{me} 570_770	77.22	45.27	0.12	0.6297	0.3691	0.001	238.2	39	595	17	487	
Y _{me} 510_770	95.07	82.39	1.05	0.5325	0.4615	0.0058	227.5	34	574	14	470	
G _{me} 470_570	19.0	43.89	9.23	0.2634	0.6084	0.128	211.3	21	508	-1	508c	
C _m 380_570	23.19	45.06	31.67	0.232	0.4509	0.3169	211.9	17	487	39	595	
B _{me} 380_510	5.36	7.95	30.75	0.1216	0.1805	0.6977	221.0	14	470	34	574	
M _m 570_470	81.4	46.44	22.56	0.5412	0.3087	0.1499	240.9	-1	508c	21	508	
R _o 570_440	78.74	45.46	7.55	0.5976	0.345	0.0573	239.2	45	625	18	491	
G _o 520_570	18.23	37.46	1.05	0.3212	0.6601	0.0185	213.9	27	539	-1	539c	
W ₁ 380_770	100.03	89.99	31.67	0.4511	0.4059	0.1428	221.9	23	515	-1	515c	

BE731-1A_4

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; A00, Y _m =510_770, YAB_77												
Code	Y ₁₀	A ₁₀	B ₁₀	C _{AB,10}	a ₁₀	b ₁₀	h _{AB,10}	i _d	λ [*] _d	i _c	λ [*] _c	
R _{me} 570_770	45.27	26.9	6.32	27.63	1.7057	-0.0011	13.2	-1	594c	38	594	
Y _{me} 510_770	82.39	3.49	11.18	11.71	1.1538	-0.0051	72.6	14	473	34	574	
G _{me} 470_570	43.89	-29.78	2.48	29.88	0.433	-0.0841	175.2	18	494	31	557	
C _m 380_570	45.06	-26.9	-6.32	27.63	0.5145	-0.2811	193.2	16	483	33	568	
B _{me} 380_510	7.95	-3.48	-11.18	11.71	0.6737	-1.5458	252.6	14	470	35	575	
M _m 570_470	46.44	29.78	-2.48	29.88	1.7528	-0.1943	355.2	-1	584c	36	584	
R _o 570_440	45.46	28.2	3.37	28.4	1.7319	-0.0664	6.8	-1	589c	37	589	
G _o 520_570	37.46	-23.41	4.85	23.91	0.4865	-0.0112	168.2	20	503	29	545	
W ₁ 380_770	89.99	0.0	0.0	0.01	1.1115	-0.1407	1.9	14	471	35	575	

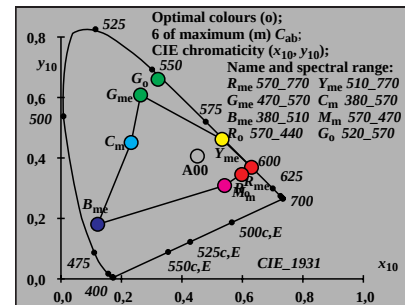
BE731-3A_4

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; A00, Y _m =510_770, CIELAB_76												
Code	L [*] ₁₀	a [*] ₁₀	b [*] ₁₀	C [*] _{ab,10}	a [*] ₁₀	b [*] ₁₀	h _{ab,10}	i _d	λ [*] _d	i _c	λ [*] _c	
R _{me} 570_770	73.07	58.91	124.02	137.3	0.2485	-0.0172	64.5	38	590	13	469	
Y _{me} 510_770	92.75	5.87	125.35	125.49	0.2181	-0.0285	87.3	34	574	13	465	
G _{me} 470_570	72.16	-102.4323	95.19	105.19	0.1573	-0.0726	166.8	23	516	-1	516c	
C _m 380_570	72.94	-86.77	-39.75	95.44	0.1666	-0.1085	204.6	15	478	-1	478c	
B _{me} 380_510	33.91	-33.01	-105.14	110.2	0.1823	-0.1915	252.5	13	468	36	583	
M _m 570_470	73.83	63.48	-17.55	65.86	0.2508	-0.0959	344.5	-1	519c	23	519	
R _o 570_440	73.2	61.25	34.03	70.07	0.2498	-0.0671	29.0	-1	477c	15	477	
G _o 520_570	67.63	-86.73	82.04	119.38	0.1636	-0.0371	136.5	29	545	-1	545c	
W ₁ 380_770	96.0	0.0	0.0	0.0	0.2154	-0.0861	157.5	25	526	-1	526c	

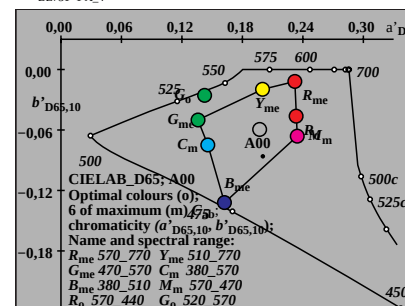
BE731-5A_4

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; A00, Y _m =510_770, LABHNU1_79												
CodeD65	L [*] ₁₀	A [*] ₁₀	B [*] ₁₀	C [*] _{ab,10}	a [*] ₁₀	b [*] ₁₀	h _{ab,10}	i _d	λ [*] _d	i _c	λ [*] _c	
R _{me} 570_770	73.07	70.59	37.12	79.76	0.1803	-0.0461	27.7	39	595	16	481	
Y _{me} 510_770	92.75	6.14	43.39	43.83	0.1435	-0.047	81.9	34	574	13	466	
G _{me} 470_570	72.16	-79.76	11.9	80.65	0.0955	-0.0602	171.5	21	507	-1	507c	
C _m 380_570	72.94	-70.8	-22.38	74.25	0.1009	-0.0795	197.5	17	486	42	612	
B _{me} 380_510	33.91	-29.13	-65.54	71.72	0.1115	-0.1326	246.0	13	469	35	578	
M _m 570_470	73.83	76.83	-9.56	77.42	0.1835	-0.0722	352.9	-1	505c	21	505	
R _o 570_440	73.2	73.8	16.41	75.6	0.1821	-0.0577	12.5	51	656	17	489	
G _o 520_570	67.63	-69.69	31.19	76.35	0.0991	-0.0483	155.8	27	538	4	422	
W ₁ 380_770	96.0	0.0	0.0	0.0	0.1407	-0.0669	14.0	28	542	5	428	

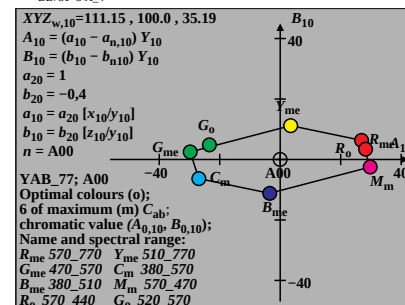
BE731-7A_4



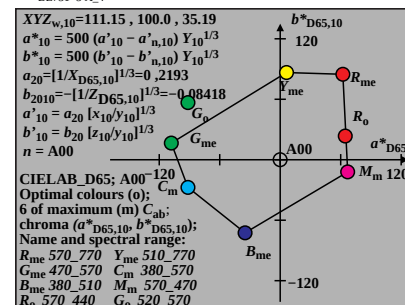
BE731-1 A_4



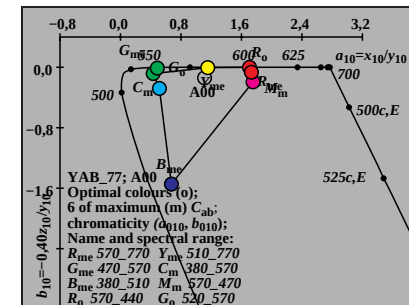
BE731-3 A_4



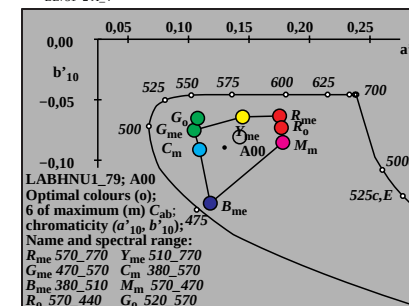
BE731-5 A_4



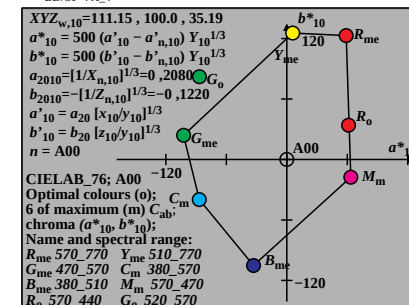
BE731-7 A_4



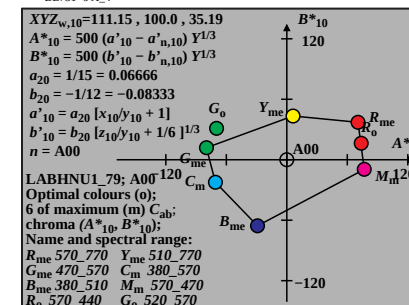
BE731-2 A_4



BE731-4 A_4



BE731-6 A_4



BE731-8 A_4

Optimal colours (o) RYGBCM of maximum (m) $C_{AB,10}$; E00, $Y_m=510_770$, CIE XYZ

Code	X_{10}	Y_{10}	Z_{10}	x_{10}	y_{10}	z_{10}	$h_{xy,10}$	i_d	λ_d	i_c	λ_c
R_{me} 570_770	56.08	34.14	0.36	0.619	0.3769	0.0039	236.3	38	592	15	478
Y_{me} 510_770	74.66	75.51	1.58	0.4919	0.4975	0.0104	224.0	33	567	12	464
G_{me} 470_570	20.5	52.83	17.64	0.2253	0.5806	0.1939	210.6	22	514	-1	514c
C_m 380_570	34.25	56.19	90.0	0.1898	0.3114	0.4987	213.6	15	478	38	592
B_{me} 380_510	15.68	14.83	88.77	0.1314	0.1243	0.7441	225.2	12	464	33	567
M_m 570_470	69.83	37.51	72.7	0.3878	0.2083	0.4037	244.2	-1	514c	22	514
R_o 570_440	62.35	34.91	30.95	0.4862	0.2723	0.2413	239.9	-1	485c	17	485
G_o 520_570	18.92	41.7	1.58	0.3041	0.6703	0.0255	215.7	27	538	-1	538c
W_1 380_770	89.99	89.99	90.0	0.3333	0.3333	0.3333	225.0	17	489	-1	489c

Optimal colours (o) RYGBCM of maximum (m) $C_{AB,10}$; E00, $Y_m=510_770$, YAB_77

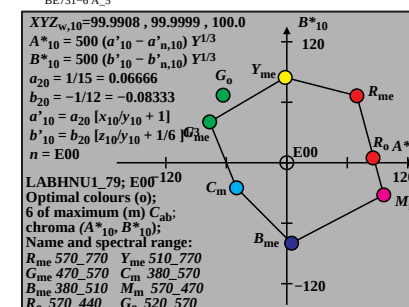
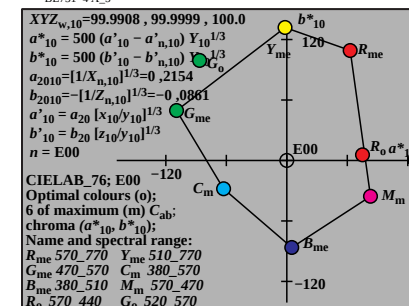
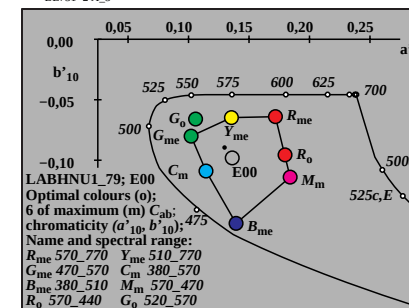
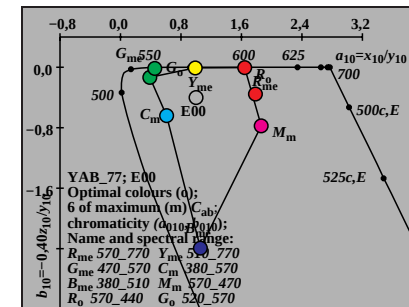
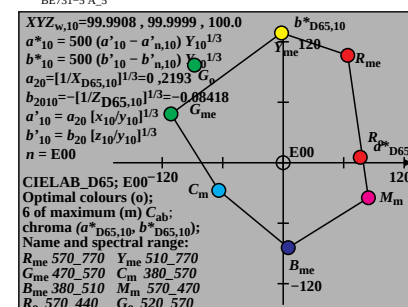
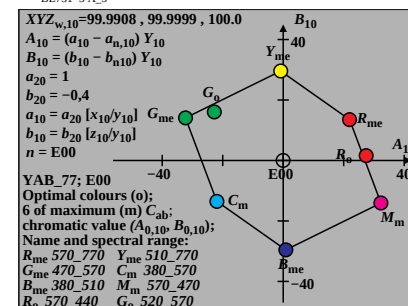
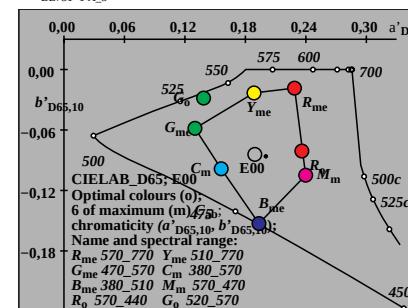
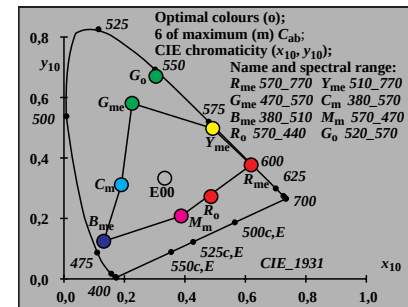
Code	Y_{10}	A_{10}	B_{10}	$C_{AB,10}$	a_{10}	b_{10}	$h_{AB,10}$	i_d	λ^*_d	i_c	λ^*_c
R_{me} 570_770	34.14	21.94	13.51	25.77	1.6424	-0.0042	31.6	38	592	15	478
Y_{me} 510_770	75.51	-0.83	29.57	29.58	0.9887	-0.0084	91.6	33	567	12	464
G_{me} 470_570	52.83	-32.32	14.07	35.25	0.388	-0.1336	156.4	23	515	-1	515c
C_m 380_570	56.19	-21.94	-13.52	25.77	0.6094	-0.6406	211.6	15	478	38	592
B_{me} 380_510	14.83	0.84	-29.57	29.58	1.057	-2.393	271.6	12	464	33	567
M_m 570_470	37.51	32.32	-14.07	35.25	1.8615	-0.7752	336.4	-1	514c	22	514
R_o 570_440	34.91	27.43	1.58	27.48	1.7856	-0.3545	3.3	-1	485c	17	485
G_o 520_570	41.7	-22.77	16.05	27.86	0.4537	-0.0152	144.8	27	538	-1	538c
W_1 380_770	89.99	0.0	0.0	0.01	0.9999	-0.4	14.8	40	604	15	479

Optimal colours (o) RYGBCM of maximum (m) $C_{AB,10}$; E00, $Y_m=510_770$, CIELAB_76

Code	L^*_{10}	a^*_{10}	b^*_{10}	$C^*_{ab,10}$	a'_{10}	b'_{10}	$h_{ab,10}$	i_d	λ^*_d	i_c	λ^*_c
R_{me} 570_770	65.08	62.86	106.61	123.76	0.2542	-0.0188	59.4	40	600	13	469
Y_{me} 510_770	89.63	-1.69	131.76	131.77	0.2146	-0.0237	90.7	33	567	13	465
G_{me} 470_570	77.78	-109.33	49.49	120.01	0.1571	-0.0598	155.6	22	514	-1	514c
C_m 380_570	79.73	-62.75	-28.04	68.74	0.1826	-0.1008	204.0	15	475	-1	475c
B_{me} 380_510	45.42	4.94	-86.31	86.45	0.2195	-0.1564	273.2	12	464	33	565
M_m 570_470	67.66	82.99	-35.58	90.3	0.265	-0.1074	336.7	-1	513c	22	513
R_o 570_440	65.69	75.06	5.55	75.27	0.2614	-0.0827	4.2	-1	483c	16	483
G_o 520_570	70.67	-86.47	99.07	131.5	0.1655	-0.0289	131.1	27	536	9	445
W_1 380_770	96.0	0.0	0.0	0.0	0.2154	-0.0861	174.2	18	494	-1	494c

Optimal colours (o) RYGBCM of maximum (m) $C_{AB,10}$; E00, $Y_m=510_770$, LABHNU1_79

Code	D_{65}	L^*_{10}	A^*_{10}	B^*_{10}	$C^*_{ab,10}$	a'_{10}	b'_{10}	$h_{ab,10}$	i_d	λ^*_d	i_c	λ^*_c
R_{me} 570_770		65.08	69.48	66.36	96.08	0.1761	-0.0468	43.6	38	593	14	473
Y_{me} 510_770		89.63	-1.56	84.55	84.56	0.1325	-0.0477	91.0	33	567	13	465
G_{me} 470_570		77.78	-76.51	40.43	86.54	0.0925	-0.0661	152.1	21	508	7	436
C_m 380_570		79.73	-49.84	-24.97	55.74	0.1072	-0.1007	206.6	15	477	44	622
B_{me} 380_510		45.42	4.67	-79.77	79.91	0.1371	-0.1526	273.3	12	464	33	566
M_m 570_470		67.66	96.13	-31.9	101.29	0.1907	-0.1067	341.6	-1	498c	19	498
R_o 570_440		65.69	85.59	4.81	85.72	0.1857	-0.0847	3.2	-1	485c	17	485
G_o 520_570		70.67	-63.12	66.94	92.01	0.0969	-0.0491	133.3	27	537	10	452
W_1 380_770		96.0	0.0	0.0	0.0	0.1333	-0.0877	153.5	18	490	-1	490c



Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; C00, Y _m =510_770, CIEXYZ												
Code	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	z ₁₀	h _{xy,10}	id	λ _d	i _c	λ _c	
R _{me} 570_770	50.84	31.42	0.41	0.6149	0.38	0.005	235.8	38	591	15	477	
Y _{me} 510_770	69.88	73.26	1.62	0.4826	0.506	0.0112	224.2	33	566	12	464	
G _{me} 470_570	21.28	54.91	20.99	0.2189	0.565	0.2159	210.6	23	515	-1	515c	
C _m 380_570	37.04	58.92	104.53	0.1847	0.2938	0.5213	214.2	15	477	38	591	
B _{me} 380_510	18.02	17.08	103.32	0.1302	0.1234	0.7463	226.2	12	464	33	566	
M _m 570_470	66.6	35.42	83.93	0.3581	0.1904	0.4513	244.5	-1	515c	23	515	
R _o 570_440	57.44	32.24	32.79	0.4689	0.2632	0.2677	239.5	-1	484c	16	484	
G _o 520_570	19.37	42.19	1.62	0.3065	0.6676	0.0257	216.5	27	539	-1	539c	
W ₁ 380_770	87.55	90.0	104.53	0.3103	0.319	0.3705	225.7	31	557	13	468	

BE731-1A_6

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; C00, Y _m =510_770, YAB_77												
Code	Y ₁₀	A ₁₀	B ₁₀	C _{AB,10}	a ₁₀	b ₁₀	h _{AB,10}	id	λ _d	i _c	λ _c	
R _{me} 570_770	31.42	20.27	14.43	24.88	1.6181	-0.0053	35.4	38	591	15	476	
Y _{me} 510_770	73.26	-1.39	33.38	33.41	0.9537	-0.0088	92.3	33	566	13	466	
G _{me} 470_570	54.91	-32.14	17.11	36.41	0.3875	-0.1528	151.9	23	518	-1	518c	
C _m 380_570	58.92	-20.27	-14.43	24.89	0.6287	-0.7096	215.4	15	477	40	601	
B _{me} 380_510	17.08	1.4	-33.39	33.42	1.0552	-2.4192	272.4	12	464	32	564	
M _m 570_470	35.42	32.14	-17.11	36.41	1.8802	-0.9477	331.9	-1	500c	20	500	
R _o 570_440	32.24	26.07	1.86	26.14	1.7814	-0.4068	4.0	-1	481c	16	481	
G _o 520_570	42.19	-21.67	18.95	28.78	0.4591	-0.0154	138.8	27	539	-1	539c	
W ₁ 380_770	90.0	0.0	0.0	0.01	0.9728	-0.4645	11.8	35	575	14	471	

BE731-3A_6

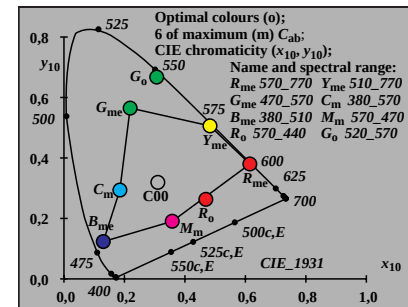
Optimal colours (o) RYGCBM of maximum (m) C _{AB,10} ; C00, Y _m =510_770, CIELAB_76												
Code	L* ₁₀	a* ₁₀	b* ₁₀	C* _{ab,10}	a'10	b'10	h _{ab,10}	i _d	λ _d	i _c	λ _c	
R _{me} 570_770	62.87	62.81	101.88	119.69	0.2553	-0.0194	58.3	40	602	13	469	
Y _{me} 510_770	88.58	-2.96	131.98	132.02	0.214	-0.023	91.2	33	566	13	465	
G _{me} 470_570	78.99	-108.1550.69		119.44	0.1585	-0.0595	154.8	22	512	-1	512c	
C _m 380_570	81.25	-56.75	-25.42	62.18	0.1862	-0.0992	204.1	15	475	-1	475c	
B _{me} 380_510	48.37	7.61	-81.36	81.71	0.2213	-0.1493	275.3	12	464	32	562	
M _m 570_470	66.08	86.88	-37.95	94.81	0.2684	-0.1093	336.4	-1	511c	22	511	
R _o 570_440	63.55	76.58	5.93	76.81	0.2636	-0.0824	4.4	-1	482c	16	482	
G _o 520_570	71.0	-83.01	101.69	131.27	0.1677	-0.0277	129.2	27	535	9	449	
W ₁ 380_770	96.0	0.0	0.0	0.0	0.2154	-0.0861	87.5	33	567	13	465	

BE731-5A_6

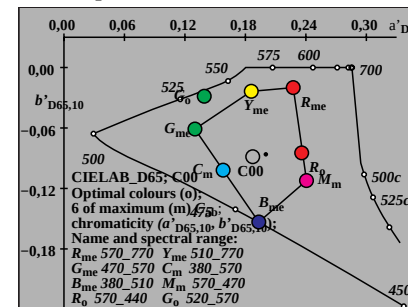
Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; C00, Y _m =510_770, LABHNU1_79												
CodeD65	L* ₁₀	A* ₁₀	B* ₁₀	C* _{ab,10}	a' ₁₀	b' ₁₀	h _{ab,10}	id	λ _d	i _c	λ _c	
R _{me} 570_770	62.87	67.86	70.27	97.69	0.1745	-0.047	45.9	38	592	14	472	
Y _{me} 510_770	88.58	-2.66	91.59	91.63	0.1302	-0.0478	91.6	33	566	13	465	
G _{me} 470_570	78.99	-74.15	44.4	86.42	0.0925	-0.0682	149.0	21	508	8	441	
C _m 380_570	81.25	-44.62	-24.01	50.67	0.1085	-0.1039	208.2	15	476	44	621	
B _{me} 380_510	48.37	7.06	-79.32	79.63	0.137	-0.1532	275.0	12	464	32	564	
M _m 570_470	66.08	99.32	-36.18	105.7	0.192	-0.1136	339.9	3	416	19	497	
R _o 570_440	63.55	85.77	5.48	85.95	0.1854	-0.0881	3.6	-1	484c	16	484	
G _o 520_570	71.0	-59.6	73.86	94.91	0.0972	-0.0491	128.8	27	537	11	455	
W ₁ 380_770	96.0	0.0	0.0	0.0	0.1315	-0.0915	9.4	33	567	13	465	

BE731-7A_6

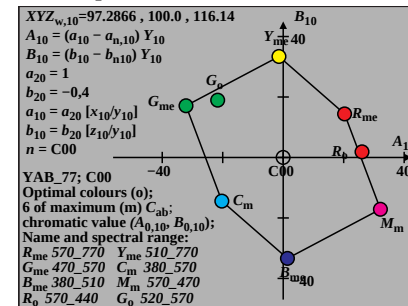
TUB-test chart BE73; Colorimetry of Ostwald optimal colours; K=25:1 input: w/rgb/cmyk->rgb
colour spaces CIEXYZ, YAB_77, CIELAB, LABHNU1_79; illuminant C00 ; CIE 10 degree



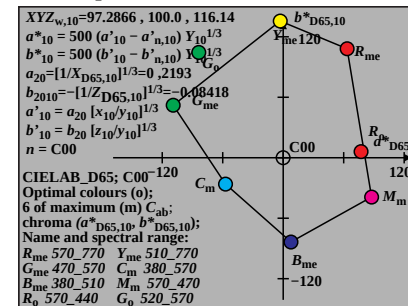
BE731-1 A_6



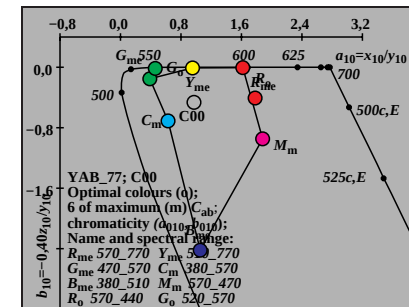
BE731-3 A_6



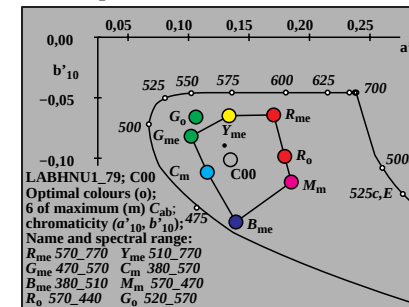
BE731-5 A_6



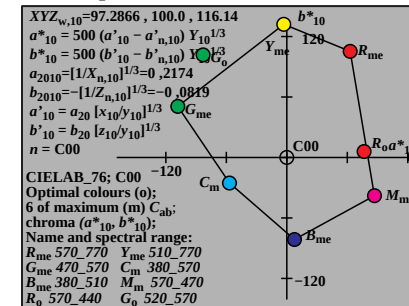
BE731-7 A_6



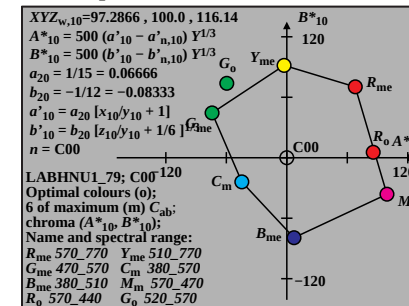
BE731-2 A_6



BE731-4 A_6



BE731-6 A_6



BE731-8 A_6

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; P00, Y _m =510_770, CIEXYZ												
Code	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	z ₁₀	h _{xy,10}	i _d	λ _d	i _c	λ _c	
R _{me} 570_770	61.39	36.95	0.29	0.6223	0.3746	0.0029	236.9	38	593	15	479	
Y _{me} 510_770	79.84	77.36	1.44	0.5032	0.4876	0.0091	225.1	33	569	13	465	
G _{me} 470_570	20.16	50.65	15.4	0.2338	0.5874	0.1786	210.9	22	513	-1	513c	
C _m 380_570	31.09	53.38	73.12	0.1973	0.3387	0.4639	213.1	15	479	38	593	
B _{me} 380_510	12.66	12.98	71.97	0.1297	0.133	0.7372	224.1	13	465	33	569	
M _m 570_470	72.32	39.68	57.99	0.4254	0.2334	0.3411	243.5	-1	513c	22	513	
R _o 570_440	66.21	37.55	23.83	0.5189	0.2942	0.1867	239.9	-1	486c	17	486	
G _o 520_570	18.8	40.75	1.44	0.3082	0.668	0.0237	215.3	27	538	-1	538c	
W ₁ 380_770	92.13	89.99	73.12	0.3609	0.3525	0.2864	224.3	41	607	16	483	

BE731-1A_7

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; P00, Y _m =510_770, YAB_77												
Code	Y ₁₀	A ₁₀	B ₁₀	C _{AB,10}	a ₁₀	b ₁₀	h _{AB,10}	i _d	λ _d	i _c	λ _c	
R _{me} 570_770	36.95	23.56	11.89	26.39	1.6612	-0.0031	26.7	38	593	16	482	
Y _{me} 510_770	77.36	0.64	24.56	24.57	1.032	-0.0074	88.5	33	569	12	463	
G _{me} 470_570	50.65	-31.68	10.29	33.32	0.3981	-0.1216	161.9	21	507	-1	507c	
C _m 380_570	53.38	-23.55	-11.89	26.39	0.5824	-0.5478	206.7	15	479	36	584	
B _{me} 380_510	12.98	-0.63	-24.56	24.57	0.9749	-2.2162	268.5	13	465	34	570	
M _m 570_470	39.68	31.69	-10.29	33.32	1.8222	-0.5844	341.9	-1	541c	28	541	
R _o 570_440	37.55	27.76	2.67	27.89	1.7632	-0.2538	5.4	-1	492c	18	492	
G _o 520_570	40.75	-22.91	12.66	26.18	0.4613	-0.0141	151.0	27	538	-1	538c	
W ₁ 380_770	89.99	0.0	0.0	0.01	1.0237	-0.325	4.1	14	470	34	573	

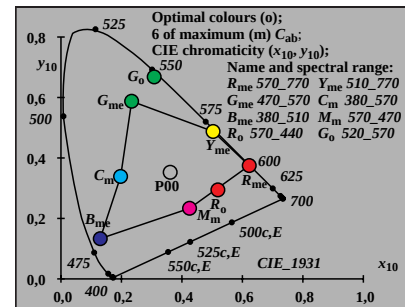
BE731-3A_7

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; P00, Y _m =510_770, CIELAB_76												
Code	L* ₁₀	a* ₁₀	b* ₁₀	C* _{ab,10}	a' ₁₀	b' ₁₀	h _{ab,10}	i _d	λ _d	i _c	λ _c	
R _{me} 570_770	67.25	62.82	111.39	127.89	0.2532	-0.0184	60.5	39	597	13	469	
Y _{me} 510_770	90.49	1.23	131.29	131.29	0.216	-0.0245	89.4	33	569	13	465	
G _{me} 470_570	76.47	-107.6244	51	116.46	0.1572	-0.0621	157.5	23	515	-1	515c	
C _m 380_570	78.11	-69.49	-30.84	76.03	0.1785	-0.1025	203.9	15	476	-1	476c	
B _{me} 380_510	42.76	-4.08	-90.76	90.85	0.2119	-0.1634	267.4	13	465	34	571	
M _m 570_470	69.25	77.85	-31.75	84.08	0.2611	-0.1048	337.8	-1	514c	22	514	
R _o 570_440	67.69	71.66	11.4	72.56	0.2582	-0.0793	9.0	-1	482c	16	482	
G _o 520_570	70.0	-86.46	95.97	129.17	0.1652	-0.0303	132.0	27	538	8	440	
W ₁ 380_770	96.0	0.0	0.0	0.0	0.2154	-0.0861	11.1	-1	480c	16	480	

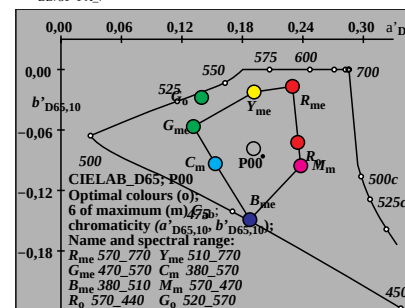
BE731-5A_7

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; P00, Y _m =510_770, LABHNU1_79												
CodeD65	L* ₁₀	A* ₁₀	B* ₁₀	C* _{ab,10}	a' ₁₀	b' ₁₀	h _{ab,10}	i _d	λ _d	i _c	λ _c	
R _{me} 570_770	67.25	70.77	60.23	92.94	0.1774	-0.0465	40.4	38	593	15	475	
Y _{me} 510_770	90.49	1.17	75.05	75.06	0.1354	-0.0475	89.1	33	569	13	465	
G _{me} 470_570	76.47	-77.15	33.14	83.96	0.0932	-0.0648	156.7	21	508	5	425	
C _m 380_570	78.11	-55.37	-25.23	60.85	0.1054	-0.0961	204.4	15	479	44	621	
B _{me} 380_510	42.76	-3.82	-77.75	77.85	0.1316	-0.1489	267.1	13	465	34	570	
M _m 570_470	69.25	90.77	-26.05	94.44	0.1881	-0.098	343.9	-1	500c	20	500	
R _o 570_440	67.69	82.53	8.95	83.01	0.1842	-0.0774	6.1	-1	486c	17	486	
G _o 520_570	70.0	-64.49	58.21	86.88	0.0974	-0.0489	137.9	27	537	9	449	
W ₁ 380_770	96.0	0.0	0.0	0.0	0.1349	-0.0827	9.4	33	569	13	465	

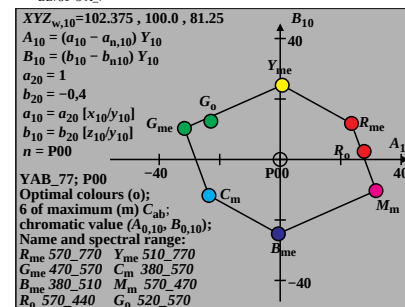
BE731-7A_7



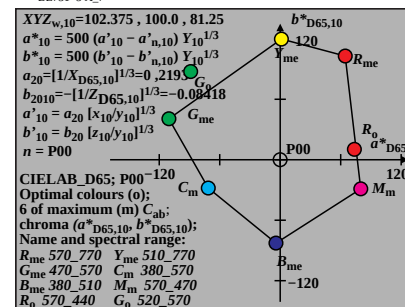
BE731-1 A_7



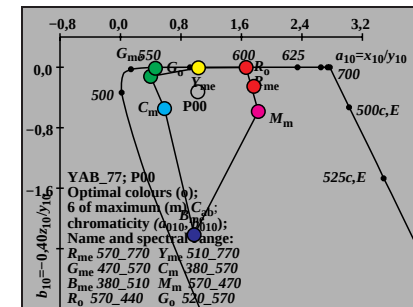
BE731-3 A_7



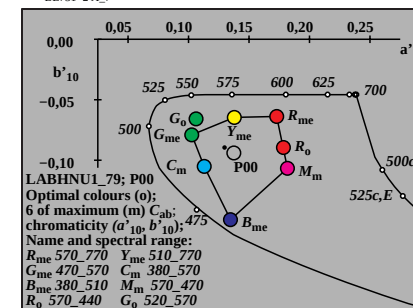
BE731-5 A_7



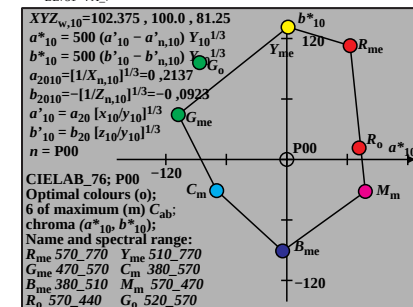
BE731-7 A_7



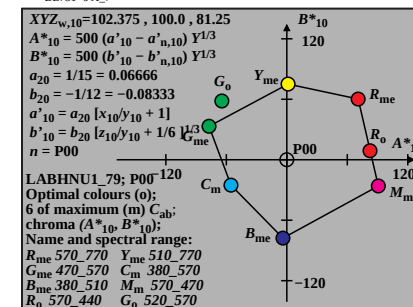
BE731-2 A_7



BE731-4 A_7



BE731-6 A_7



BE731-8 A_7

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; Q00, Y _m =510_770, CIEXYZ												
Code	X ₁₀	Y ₁₀	Z ₁₀	x ₁₀	y ₁₀	z ₁₀	h _{xy,10}	i _d	λ _d	i _c	λ _c	
R _{me} 570_770	50.87	31.39	0.42	0.6152	0.3796	0.0051	235.7	38	591	15	476	
Y _{me} 510_770	69.58	73.69	1.72	0.4798	0.5082	0.0119	223.1	33	566	12	464	
G _{me} 470_570	20.83	54.96	19.84	0.2178	0.5746	0.2074	210.3	23	516	-1	516c	
C _m 380_570	37.34	58.95	106.58	0.184	0.2905	0.5253	214.2	15	476	38	591	
B _{me} 380_510	18.65	16.65	105.28	0.1326	0.1184	0.7488	226.5	12	464	33	566	
M _m 570_470	67.38	35.37	87.13	0.3548	0.1862	0.4588	244.9	-1	516c	23	516	
R _o 570_440	58.56	32.33	37.93	0.4545	0.2509	0.2944	239.9	-1	485c	17	485	
G _o 520_570	19.04	42.64	1.72	0.3003	0.6724	0.0272	216.1	27	538	-1	538c	
W ₁ 380_770	87.88	90.0	106.58	0.3089	0.3163	0.3746	225.6	-1	487c	17	487	

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; Q00, Y _m =510_770, YAB_77												
Code	Y ₁₀	A ₁₀	B ₁₀	C _{AB,10}	a ₁₀	b ₁₀	h _{AB,10}	i _d	λ [*] _d	i _c	λ [*] _c	
R _{me} 570_770	31.39	20.22	14.69	25.0	1.6207	-0.0054	36.0	38	591	15	476	
Y _{me} 510_770	73.69	-2.37	34.21	34.3	0.9442	-0.0093	93.9	33	566	13	465	
G _{me} 470_570	54.96	-32.84	18.1	37.5	0.379	-0.1444	151.1	23	519	-1	519c	
C _m 380_570	58.95	-20.22	-14.7	25.0	0.6334	-0.7231	216.0	15	477	40	604	
B _{me} 380_510	16.65	2.38	-34.22	34.3	1.1198	-2.5284	273.9	12	463	32	564	
M _m 570_470	35.37	32.84	-18.09	37.5	1.9049	-0.9853	331.1	-1	499c	19	499	
R _o 570_440	32.33	26.98	0.14	26.98	1.811	-0.4693	0.3	-1	482c	16	482	
G _o 520_570	42.64	-22.6	19.51	29.85	0.4465	-0.0161	139.1	27	538	-1	538c	
W ₁ 380_770	90.0	0.0	0.0	0.01	0.9764	-0.4736	357.9	34	573	14	470	

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; Q00, Y _m =510_770, CIELAB_76												
Code	L [*] ₁₀	a [*] ₁₀	b [*] ₁₀	C [*] _{ab,10}	a [*] ₁₀	b [*] ₁₀	h _{ab,10}	i _d	λ [*] _d	i _c	λ [*] _c	
R _{me} 570_770	62.84	62.51	101.71	119.38	0.2551	-0.0194	58.4	40	603	13	469	
Y _{me} 510_770	88.78	-5.03	131.69	131.78	0.213	-0.0233	92.1	33	565	13	465	
G _{me} 470_570	79.02	-110.7953	55	123.05	0.1571	-0.058	154.2	22	513	-1	513c	
C _m 380_570	81.27	-56.3	-25.39	61.76	0.1865	-0.0992	204.2	15	475	-1	475c	
B _{me} 380_510	47.83	12.84	-82.25	83.25	0.2255	-0.1506	278.8	12	464	31	559	
M _m 570_470	66.04	88.21	-39.1	96.49	0.2692	-0.11	336.0	-1	511c	22	511	
R _o 570_440	63.62	78.45	0.42	78.45	0.2647	-0.0859	0.3	-1	485c	17	485	
G _o 520_570	71.32	-86.37	101.59	133.34	0.166	-0.0279	130.3	26	534	9	448	
W ₁ 380_770	96.0	0.0	0.0	0.0	0.2154	-0.0861	354.3	-1	492c	18	492	

Optimal colours (o) RYGBCM of maximum (m) C _{AB,10} ; Q00, Y _m =510_770, LABHNU1_79												
CodeD65	L [*] ₁₀	A [*] ₁₀	B [*] ₁₀	C [*] _{ab,10}	a [*] ₁₀	b [*] ₁₀	h _{ab,10}	i _d	λ [*] _d	i _c	λ [*] _c	
R _{me} 570_770	62.84	67.73	71.03	98.15	0.1747	-0.047	46.3	38	592	14	472	
Y _{me} 510_770	88.78	-4.5	92.64	92.75	0.1296	-0.0479	92.7	33	565	13	465	
G _{me} 470_570	79.02	-75.71	47.09	89.16	0.0919	-0.0673	148.1	21	509	8	442	
C _m 380_570	81.27	-44.49	-24.17	50.63	0.1088	-0.1045	208.5	15	476	44	622	
B _{me} 380_510	47.83	12.2	-80.81	81.72	0.1413	-0.1554	278.5	12	464	32	562	
M _m 570_470	66.04	101.58	-37.58	108.31	0.1936	-0.115	339.6	3	418	19	497	
R _o 570_440	63.62	88.62	0.39	88.62	0.1874	-0.0918	0.2	-1	485c	17	485	
G _o 520_570	71.32	-61.7	74.77	96.95	0.0964	-0.0493	129.5	27	536	11	455	
W ₁ 380_770	96.0	0.0	0.0	0.0	0.1317	-0.0921	355.2	-1	489c	17	489	

