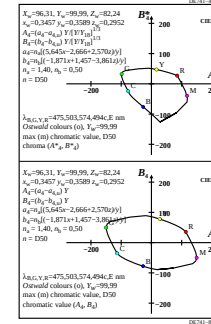
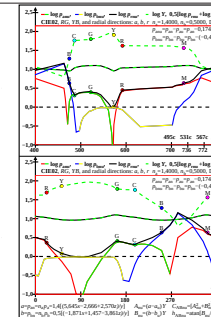


TUB registration: 20180801-DE74DE74L0N1.TXT /.PS
TUB material: code=rh44



TUB-test chart DE74; 4 CIE and 2 R17M observers, colorimetric calculations of chromatic values
purity definition: $a=1.4[5.645x-2.666+2.570z]/y$, $b=0.5[-1.871x+1.457-3.861z]/y$

CIE1931 tristimulus values, chromatic values, and position (p, L, A, a_{90} , a_{50})
Normalized Overall (O) tristimulus values (Y=100), defined by line angle

no.	X	Y	Z	a	b	c	p	L	A	a_{90}	a_{50}
1	38.12	68.80	80.81	13.24	18.82	24.49	11.0	95.1	50.0	0.0	0.0
2	40.18	72.03	83.81	13.92	19.62	25.17	11.5	94.2	50.0	0.0	0.0
3	41.24	73.19	84.98	14.26	20.08	25.68	11.8	93.4	50.0	0.0	0.0
4	42.30	74.35	86.15	14.60	20.54	26.19	12.2	92.5	50.0	0.0	0.0
5	43.36	75.51	87.32	14.94	21.00	26.70	12.5	91.6	50.0	0.0	0.0
6	44.42	76.67	88.49	15.28	21.46	27.21	12.8	90.7	50.0	0.0	0.0
7	45.48	77.83	89.66	15.62	21.92	27.72	13.2	89.8	50.0	0.0	0.0
8	46.54	78.99	90.83	15.96	22.38	28.23	13.5	88.9	50.0	0.0	0.0
9	47.60	80.15	92.00	16.30	22.84	28.74	13.8	88.0	50.0	0.0	0.0
10	48.66	81.31	93.17	16.64	23.30	29.25	14.2	87.1	50.0	0.0	0.0
11	49.72	82.47	94.34	16.98	23.76	29.76	14.5	86.2	50.0	0.0	0.0
12	50.78	83.63	95.51	17.32	24.22	30.27	14.8	85.3	50.0	0.0	0.0
13	51.84	84.79	96.68	17.66	24.68	30.78	15.2	84.4	50.0	0.0	0.0
14	52.90	85.95	97.85	18.00	25.14	31.29	15.5	83.5	50.0	0.0	0.0
15	53.96	87.11	99.02	18.34	25.60	31.80	15.8	82.6	50.0	0.0	0.0
16	55.02	88.27	100.19	18.68	26.06	32.31	16.2	81.7	50.0	0.0	0.0
17	56.08	89.43	101.36	19.02	26.52	32.82	16.5	80.8	50.0	0.0	0.0
18	57.14	90.59	102.53	19.36	26.98	33.33	16.8	79.9	50.0	0.0	0.0
19	58.20	91.75	103.70	19.70	27.44	33.84	17.2	79.0	50.0	0.0	0.0
20	59.26	92.91	104.87	20.04	27.90	34.35	17.5	78.1	50.0	0.0	0.0
21	60.32	94.07	106.04	20.38	28.36	34.86	17.8	77.2	50.0	0.0	0.0
22	61.38	95.23	107.21	20.72	28.82	35.37	18.2	76.3	50.0	0.0	0.0
23	62.44	96.39	108.38	21.06	29.28	35.88	18.5	75.4	50.0	0.0	0.0
24	63.50	97.55	109.55	21.40	29.74	36.39	18.8	74.5	50.0	0.0	0.0
25	64.56	98.71	110.72	21.74	30.20	36.90	19.2	73.6	50.0	0.0	0.0
26	65.62	99.87	111.89	22.08	30.66	37.41	19.5	72.7	50.0	0.0	0.0
27	66.68	101.03	113.06	22.42	31.12	37.92	19.8	71.8	50.0	0.0	0.0
28	67.74	102.19	114.23	22.76	31.58	38.43	20.2	70.9	50.0	0.0	0.0
29	68.80	103.35	115.40	23.10	32.04	38.94	20.5	70.0	50.0	0.0	0.0
30	69.86	104.51	116.57	23.44	32.50	39.45	20.8	69.1	50.0	0.0	0.0
31	70.92	105.67	117.74	23.78	32.96	39.96	21.2	68.2	50.0	0.0	0.0
32	71.98	106.83	118.91	24.12	33.42	40.47	21.5	67.3	50.0	0.0	0.0
33	73.04	107.99	120.08	24.46	33.88	40.98	21.8	66.4	50.0	0.0	0.0
34	74.10	109.15	121.25	24.80	34.34	41.49	22.2	65.5	50.0	0.0	0.0
35	75.16	110.31	122.42	25.14	34.80	42.00	22.5	64.6	50.0	0.0	0.0
36	76.22	111.47	123.59	25.48	35.26	42.51	22.8	63.7	50.0	0.0	0.0
37	77.28	112.63	124.76	25.82	35.72	43.02	23.2	62.8	50.0	0.0	0.0
38	78.34	113.79	125.93	26.16	36.18	43.53	23.5	61.9	50.0	0.0	0.0
39	79.40	114.95	127.10	26.50	36.64	44.04	23.8	61.0	50.0	0.0	0.0
40	80.46	116.11	128.27	26.84	37.10	44.55	24.2	60.1	50.0	0.0	0.0
41	81.52	117.27	129.44	27.18	37.56	45.06	24.5	59.2	50.0	0.0	0.0
42	82.58	118.43	130.61	27.52	38.02	45.57	24.8	58.3	50.0	0.0	0.0
43	83.64	119.59	131.78	27.86	38.48	46.08	25.2	57.4	50.0	0.0	0.0
44	84.70	120.75	132.95	28.20	38.94	46.59	25.5	56.5	50.0	0.0	0.0
45	85.76	121.91	134.12	28.54	39.40	47.10	25.8	55.6	50.0	0.0	0.0
46	86.82	123.07	135.29	28.88	39.86	47.61	26.2	54.7	50.0	0.0	0.0
47	87.88	124.23	136.46	29.22	40.32	48.12	26.5	53.8	50.0	0.0	0.0
48	88.94	125.39	137.63	29.56	40.78	48.63	26.8	52.9	50.0	0.0	0.0
49	89.00	125.55	137.80	29.60	40.82	48.67	26.8	52.9	50.0	0.0	0.0
50	89.06	125.61	137.86	29.64	40.86	48.71	26.8	52.9	50.0	0.0	0.0
51	89.12	125.67	137.92	29.68	40.90	48.75	26.8	52.9	50.0	0.0	0.0
52	89.18	125.73	137.98	29.72	40.94	48.79	26.8	52.9	50.0	0.0	0.0
53	89.24	125.79	138.04	29.76	40.98	48.83	26.8	52.9	50.0	0.0	0.0
54	89.30	125.85	138.10	29.80	41.02	48.87	26.8	52.9	50.0	0.0	0.0
55	89.36	125.91	138.16	29.84	41.06	48.91	26.8	52.9	50.0	0.0	0.0
56	89.42	125.97	138.22	29.88	41.10	48.95	26.8	52.9	50.0	0.0	0.0
57	89.48	126.03	138.28	29.92	41.14	48.99	26.8	52.9	50.0	0.0	0.0
58	89.54	126.09	138.34	29.96	41.18	49.03	26.8	52.9	50.0	0.0	0.0
59	89.60	126.15	138.40	29.96	41.22	49.07	26.8	52.9	50.0	0.0	0.0
60	89.66	126.21	138.46	29.96	41.26	49.11	26.8	52.9	50.0	0.0	0.0
61	89.72	126.27	138.52	29.96	41.30	49.15	26.8	52.9	50.0	0.0	0.0
62	89.78	126.33	138.58	29.96	41.34	49.19	26.8	52.9	50.0	0.0	0.0
63	89.84	126.39	138.64	29.96	41.38	49.23	26.8	52.9	50.0	0.0	0.0
64	89.90	126.45	138.70	29.96	41.42	49.27	26.8	52.9	50.0	0.0	0.0
65	89.96	126.51	138.76	29.96	41.46	49.31	26.8	52.9	50.0	0.0	0.0
66	89.02	126.57	138.82	29.96	41.50	49.35	26.8	52.9	50.0	0.0	0.0
67	89.08	126.63	138.88	29.96	41.54	49.39	26.8	52.9	50.0	0.0	0.0
68	89.14	126.69	138.94	29.96	41.58	49.43	26.8	52.9	50.0	0.0	0.0
69	89.20	126.75	139.00	29.96	41.62	49.47	26.8	52.9	50.0	0.0	0.0
70	89.26	126.81	139.06	29.96	41.66	49.51	26.8	52.9	50.0	0.0	0.0
71	89.32	126.87	139.12	29.96	41.70	49.55	26.8	52.9	50.0	0.0	0.0
72	89.38	126.93	139.18	29.96	41.74	49.59	26.8	52.9	50.0	0.0	0.0
73	89.44	126.99	139.24	29.96	41.78	49.63	26.8	52.9	50.0	0.0	0.0
74	89.50	127.05	139.30	29.96	41.82	49.67	26.8	52.9	50.0	0.0	0.0
75	89.56	127.11	139.36	29.96	41.86	49.71	26.8	52.9	50.0	0.0	0.0
76	89.62	127.17	139.42	29.96	41.90	49.75	26.8	52.9	50.0	0.0	0.0
77	89.68	127.23	139.48	29.96	41.94	49.79	26.8	52.9	50.0	0.0	0.0
78	89.74	127.29	139.54	29.96	41.98	49.83	26.8	52.9	50.0	0.0	0.0
79	89.80	127.35	139.60	29.96	42.02	49.87	26.8	52.9	50.0	0.0	0.0
80	89.86	127.41	139.66	29.96	42.06	49.91	26.8	52.9	50.0	0.0	0.0
81	89.92	127.47	139.72	29.96	42.10	49.95	26.8	52.9	50.0	0.0	0.0
82	89.98	127.53	139.78	29.96	42.14	49.99	26.8	52.9	50.0	0.0	0.0
83	90.04	127.59	139.84	29.96	42.18	50.03	26.8	52.9	50.0	0.0	0.0
84	90.10	127.65	139.90	29.96	42.22	50.07	26.8	52.9	50.0	0.0	0.0
85	90.16	127.71	139.96	29.96	42.26	50.11	26.8	52.9	50.0	0.0	0.0
86	90.22	127.77	140.02	29.96	42.30	50.15	26.8	52.9	50.0	0.0	0.0
87	90.28	127.83	140.08	29.96	42.34	50.19	26.8	52.9	50.0	0.0	0.0
88	90.34	127.89	140.14	29.96	42.38	50.23	26.8	52.9	50.0	0.0	0.0
89	90.40	127.95	140.20	29.96	42.42	50.27	26.8	52.9	50.0	0.0	0.0
90	90.46	128.01	140.26	29.96	42.46	50.31	26.8	52.9	50.0	0.0	0.0
91	90.52	128.07	140.32	29.96	42.50	50.35	26.8	52.9	50.0	0.0	0.0
92	90.58	128.13	140.38	29.96	42.54	50.39	26.8	52.9	50.0	0.0	0.0
93	90.64	128.19	140.44	29.96	42.58	50.43	26.8	52.9	50.0	0.0	0.0
94	90.70	128.25	140.50	29.96	42.62	50.47	26.8	52.9	50.0	0.0	0.0
95	90.76	128.31	140.56	29.96	42.66	50.51	26.8	52.9	50.0	0.0	0.0
96	90.82	128.37	140.62	29.96	42.70	50.55	26.8	52.9	50.0	0.0	0.0
97	90.88	128.43	140.68	29.96	42.74	50.59	26.8	52.9	50.0	0.0	0.0
98	90.94	128.49	140.74	29.96	42.78	50.63	26.8	52.9	50.0	0.0	0.0
99	91.00	128.55	140.80	29.96	42.82	50.67	26.8	52.9	50.0	0.0	0.0
100	91.06	128.61	140.86	29.96	42.86	50.71	26.8	52.9	50.0	0.0	0.0

CIE1931 tristimulus values, chromatic values, and position (p, L, A, a_{90} , a_{50})
Normalized Overall (O) tristimulus values (Y=100), defined by line angle

no.	X	Y	Z	a	b	c	p	L	A	a_{90}	a_{50}
1	38.12	68.80	80.81	13.24	18.82	24.49	11.0	95.1	50.0	0.0	0.0

TUB-test chart DE74; 4 CIE and 2 R17M observers, colorimetric calculations of chromatic values
purity definition: $a=1.4[5.645x-2.666+2.570z]/y$, $b=0.5[-1.871x+1.457-3.861z]/y$

[illegible][illegible]

see similar files: <http://farbe.liu-berlin.de/DE74/DE74L0N1.TXT / .PS>
technical information: <http://farbe.liu-berlin.de> or <http://30.149.60.45/~fainmetrik>

R17M tristimulus values, chromatic values, and putties (p=1,4, n₀=0.5)
Normalized D50 (CI) tristimulus values (Y=100), edited by hue angle

no.	C	M	Y	Z	x	y	z	x ₀	y ₀	z ₀
101	20.34	23.56	72.45	0.366	0.193	0.684	0.64	-0.76	0.83	307
102	48.03	19.03	72.17	0.395	0.089	0.715	0.84	-0.85	0.83	299
103	86.22	11.18	72.45	0.388	0.086	0.705	0.84	-0.85	0.83	299
104	100.00	16.46	77.09	0.476	0.142	0.678	0.84	-0.85	0.83	299
105	47.4	20.76	23.15	0.707	0.169	0.089	0.041	1.22	-0.79	729
106	47.7	22.09	31.32	0.707	0.169	0.124	0.036	1.22	-0.79	729
107	47.7	22.09	35.77	0.707	0.173	0.125	0.037	1.22	-0.79	729
108	48.1	20.86	45.22	0.696	0.186	0.142	0.036	1.22	-0.79	729
109	48.2	20.81	48.30	0.714	0.191	0.136	0.045	1.22	-0.79	729
110	48.7	21.06	52.31	0.705	0.194	0.145	0.045	1.22	-0.79	729
111	48.6	20.68	55.06	0.696	0.179	0.148	0.034	1.22	-0.79	729
112	48.6	20.68	57.33	0.705	0.184	0.145	0.045	1.22	-0.79	729
113	48.6	20.68	59.59	0.705	0.184	0.145	0.045	1.22	-0.79	729
114	48.6	20.68	61.86	0.705	0.184	0.145	0.045	1.22	-0.79	729
115	48.6	20.68	64.12	0.705	0.184	0.145	0.045	1.22	-0.79	729
116	48.6	20.68	66.38	0.705	0.184	0.145	0.045	1.22	-0.79	729
117	48.6	20.68	68.64	0.705	0.184	0.145	0.045	1.22	-0.79	729
118	48.6	20.68	70.90	0.705	0.184	0.145	0.045	1.22	-0.79	729
119	48.6	20.68	73.16	0.705	0.184	0.145	0.045	1.22	-0.79	729
120	48.6	20.68	75.42	0.705	0.184	0.145	0.045	1.22	-0.79	729
121	48.6	20.68	77.68	0.705	0.184	0.145	0.045	1.22	-0.79	729
122	48.6	20.68	79.94	0.705	0.184	0.145	0.045	1.22	-0.79	729
123	48.6	20.68	82.20	0.705	0.184	0.145	0.045	1.22	-0.79	729
124	48.6	20.68	84.46	0.705	0.184	0.145	0.045	1.22	-0.79	729
125	48.6	20.68	86.72	0.705	0.184	0.145	0.045	1.22	-0.79	729
126	48.6	20.68	88.98	0.705	0.184	0.145	0.045	1.22	-0.79	729
127	48.6	20.68	91.24	0.705	0.184	0.145	0.045	1.22	-0.79	729
128	48.6	20.68	93.50	0.705	0.184	0.145	0.045	1.22	-0.79	729
129	48.6	20.68	95.76	0.705	0.184	0.145	0.045	1.22	-0.79	729
130	48.6	20.68	98.02	0.705	0.184	0.145	0.045	1.22	-0.79	729
131	48.6	20.68	100.00	0.705	0.184	0.145	0.045	1.22	-0.79	729
132	48.6	20.68	102.26	0.705	0.184	0.145	0.045	1.22	-0.79	729
133	48.6	20.68	104.52	0.705	0.184	0.145	0.045	1.22	-0.79	729
134	48.6	20.68	106.78	0.705	0.184	0.145	0.045	1.22	-0.79	729
135	48.6	20.68	109.04	0.705	0.184	0.145	0.045	1.22	-0.79	729
136	48.6	20.68	111.30	0.705	0.184	0.145	0.045	1.22	-0.79	729
137	48.6	20.68	113.56	0.705	0.184	0.145	0.045	1.22	-0.79	729
138	48.6	20.68	115.82	0.705	0.184	0.145	0.045	1.22	-0.79	729
139	48.6	20.68	118.08	0.705	0.184	0.145	0.045	1.22	-0.79	729
140	48.6	20.68	120.34	0.705	0.184	0.145	0.045	1.22	-0.79	729
141	48.6	20.68	122.60	0.705	0.184	0.145	0.045	1.22	-0.79	729
142	48.6	20.68	124.86	0.705	0.184	0.145	0.045	1.22	-0.79	729
143	48.6	20.68	127.12	0.705	0.184	0.145	0.045	1.22	-0.79	729
144	48.6	20.68	129.38	0.705	0.184	0.145	0.045	1.22	-0.79	729
145	48.6	20.68	131.64	0.705	0.184	0.145	0.045	1.22	-0.79	729
146	48.6	20.68	133.90	0.705	0.184	0.145	0.045	1.22	-0.79	729
147	48.6	20.68	136.16	0.705	0.184	0.145	0.045	1.22	-0.79	729
148	48.6	20.68	138.42	0.705	0.184	0.145	0.045	1.22	-0.79	729
149	48.6	20.68	140.68	0.705	0.184	0.145	0.045	1.22	-0.79	729
150	48.6	20.68	142.94	0.705	0.184	0.145	0.045	1.22	-0.79	729
151	48.6	20.68	145.20	0.705	0.184	0.145	0.045	1.22	-0.79	729
152	48.6	20.68	147.46	0.705	0.184	0.145	0.045	1.22	-0.79	729
153	48.6	20.68	149.72	0.705	0.184	0.145	0.045	1.22	-0.79	729
154	48.6	20.68	151.98	0.705	0.184	0.145	0.045	1.22	-0.79	729
155	48.6	20.68	154.24	0.705	0.184	0.145	0.045	1.22	-0.79	729
156	48.6	20.68	156.50	0.705	0.184	0.145	0.045	1.22	-0.79	729
157	48.6	20.68	158.76	0.705	0.184	0.145	0.045	1.22	-0.79	729
158	48.6	20.68	161.02	0.705	0.184	0.145	0.045	1.22	-0.79	729
159	48.6	20.68	163.28	0.705	0.184	0.145	0.045	1.22	-0.79	729
160	48.6	20.68	165.54	0.705	0.184	0.145	0.045	1.22	-0.79	729
161	48.6	20.68	167.80	0.705	0.184	0.145	0.045	1.22	-0.79	729
162	48.6	20.68	170.06	0.705	0.184	0.145	0.045	1.22	-0.79	729
163	48.6	20.68	172.32	0.705	0.184	0.145	0.045	1.22	-0.79	729
164	48.6	20.68	174.58	0.705	0.184	0.145	0.045	1.22	-0.79	729
165	48.6	20.68	176.84	0.705	0.184	0.145	0.045	1.22	-0.79	729
166	48.6	20.68	179.10	0.705	0.184	0.145	0.045	1.22	-0.79	729
167	48.6	20.68	181.36	0.705	0.184	0.145	0.045	1.22	-0.79	729
168	48.6	20.68	183.62	0.705	0.184	0.145	0.045	1.22	-0.79	729
169	48.6	20.68	185.88	0.705	0.184	0.145	0.045	1.22	-0.79	729
170	48.6	20.68	188.14	0.705	0.184	0.145	0.045	1.22	-0.79	729
171	48.6	20.68	190.40	0.705	0.184	0.145	0.045	1.22	-0.79	729
172	48.6	20.68	192.66	0.705	0.184	0.145	0.045	1.22	-0.79	729
173	48.6	20.68	194.92	0.705	0.184	0.145	0.045	1.22	-0.79	729
174	48.6	20.68	197.18	0.705	0.184	0.145	0.045	1.22	-0.79	729
175	48.6	20.68	199.44	0.705	0.184	0.145	0.045	1.22	-0.79	729
176	48.6	20.68	201.70	0.705	0.184	0.145	0.045	1.22	-0.79	729
177	48.6	20.68	203.96	0.705	0.184	0.145	0.045	1.22	-0.79	729
178	48.6	20.68	206.22	0.705	0.184	0.145	0.045	1.22	-0.79	729
179	48.6	20.68	208.48	0.705	0.184	0.145	0.045	1.22	-0.79	729
180	48.6	20.68	210.74	0.705	0.184	0.145	0.045	1.22	-0.79	729
181	48.6	20.68	213.00	0.705	0.184	0.145	0.045	1.22	-0.79	729
182	48.6	20.68	215.26	0.705	0.184	0.145	0.045	1.22	-0.79	729
183	48.6	20.68	217.52	0.705	0.184	0.145	0.045	1.22	-0.79	729
184	48.6	20.68	219.78	0.705	0.184	0.145	0.045	1.22	-0.79	729
185	48.6	20.68	222.04	0.705	0.184	0.145	0.045	1.22	-0.79	729
186	48.6	20.68	224.30	0.705	0.184	0.145	0.045	1.22	-0.79	729
187	48.6	20.68	226.56	0.705	0.184	0.145	0.045	1.22	-0.79	729
188	48.6	20.68	228.82	0.705	0.184	0.145	0.045	1.22	-0.79	729
189	48.6	20.68	231.08	0.705	0.184	0.145	0.045	1.22	-0.79	729
190	48.6	20.68	233.34	0.705	0.184	0.145	0.045	1.22	-0.79	729
191	48.6	20.68	235.60	0.705	0.184	0.145	0.045	1.22	-0.79	729
192	48.6	20.68	237.86	0.705	0.184	0.145	0.045	1.22	-0.79	729
193	48.6	20.68	240.12	0.705	0.184	0.145	0.045	1.22	-0.79	729
194	48.6	20.68	242.38	0.705	0.184	0.145	0.045	1.22	-0.79	729
195	48.6	20.68	244.64	0.705	0.184	0.145	0.045	1.22	-0.79	729
196	48.6	20.68	246.90	0.705	0.184	0.145	0.045	1.22	-0.79	729
197	48.6	20.68	249.16	0.705	0.184	0.145	0.045	1.22	-0.79	729
198	48.6	20.68	251.42	0.705	0.184	0.145	0.045	1.22	-0.79	729
199	48.6	20.68	253.68	0.705	0.184	0.145	0.045	1.22	-0.79	729
200	48.6	20.68	255.94	0.705	0.184	0.145	0.045	1.22	-0.79	729
201	48.6	20.68	258.20	0.705	0.184	0.145	0.045	1.22	-0.79	729
202	48.6	20.68	260.46	0.705	0.184	0.145	0.045	1.22	-0.79	729
203	48.6	20.68	262.72	0.705	0.184	0.145	0.045	1.22	-0.79	729
204	48.6	20.68	264.98	0.705	0.184	0.145	0.045	1.22	-0.79	729
205	48.6	20.68	267.24	0.705	0.184	0.145	0.045	1.22	-0.79	729
206	48.6	20.68	269.50	0.705	0.184	0.145	0.045	1.22	-0.79	729
207	48.6	20.68	271.76	0.705	0.184	0.145	0.045	1.22	-0.79	729
208	48.6	20.68	274.02	0.705	0.184	0.145	0.045	1.22	-0.79	729
209	48.6	20.68	276.28	0.705	0.184	0.145	0.045	1.22	-0.79	729
210	48.6	20.68	278.54	0.705	0.184	0.145	0.045	1.22	-0.79	729
211	48.6	20.68	280.80	0.705	0.184	0.145	0.045	1.22	-0.79	729
212	48.6	20.68	283.06	0.705	0.184	0.145	0.045	1.22	-0.79	729
213	48.6	20.68	285.32	0.705	0.184	0.14				

