

CIE02 tristimulus values, chromatic values, and putities ($n=2.8, n_0=-1.0$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.											
no. O			tristimulus values and chromaticities			nu-chromatic values			nu-putities		
			X	Y	Z	x	y	y ₁₈			
00	396	31.24	12.19	76.69	0.260	0.101	0.638	13.3	-66.6	67.9	281
01	463	13.25	6.34	78.11	0.135	0.064	0.799	-18.3	-72.8	75.1	255
02	466	13.27	8.01	79.21	0.132	0.079	0.788	-21.8	-72.6	75.8	253
03	471	13.39	12.66	80.68	0.125	0.118	0.755	-30.8	-70.2	76.7	246
04	475B	14.00	19.21	81.44	0.122	0.167	0.710	-41.8	-65.6	77.8	237
05	479	15.61	27.50	81.85	0.124	0.220	0.655	-53.5	-59.2	78.9	227
06	481	18.42	36.66	82.05	0.134	0.267	0.598	-64.0	-51.9	82.4	219
07	483	20.35	41.45	82.11	0.141	0.288	0.570	-68.4	-48.0	83.5	215
08	484	22.64	46.29	82.14	0.149	0.306	0.543	-72.0	-44.0	84.4	211
09	485	25.29	51.06	82.16	0.159	0.322	0.518	-74.6	-40.1	84.7	208
10	486C	26.62	57.81	81.62	0.175	0.341	0.482	-76.7	-34.0	84.0	203
11	490	26.32	58.17	83.51	0.177	0.393	0.429	-76.4	-15.6	78.0	191
12	497	23.01	58.66	82.48	0.185	0.472	0.342	-74.0	-6.7	75.1	175
13	501	22.62	59.57	83.18	0.192	0.507	0.299	-74.0	13.7	75.3	169
14	506	22.26	60.29	82.28	0.200	0.543	0.255	-72.8	21.2	75.8	163
15	519	21.83	61.02	17.06	0.218	0.610	0.170	-69.8	33.1	77.3	154
16	522G	24.04	63.42	17.06	0.230	0.606	0.163	-69.1	35.0	77.5	153
17	535	27.22	66.19	9.71	0.263	0.641	0.094	-63.3	44.7	77.5	144
18	544	35.20	72.16	7.33	0.306	0.629	0.063	-54.6	52.0	75.4	136
19	541	65.07	87.80	5.54	0.410	0.554	0.041	-13.3	66.6	67.9	101
20	568	83.05	93.65	4.13	0.459	0.517	0.022	-18.3	72.8	75.1	75
21	569	83.03	91.98	3.02	0.466	0.516	0.016	-21.8	72.6	75.8	73
22	571	82.92	87.33	1.55	0.482	0.508	0.009	-30.9	70.2	76.7	66
23	573Y	82.30	80.76	0.80	0.502	0.492	0.004	-41.9	65.6	77.8	57
24	577	80.69	72.49	0.38	0.525	0.472	0.002	-53.5	59.2	78.9	47
25	581	77.87	63.33	0.18	0.550	0.447	0.001	-64.0	51.8	82.4	39
26	583	75.96	58.54	0.13	0.564	0.434	0.000	-68.4	-48.0	83.5	35
27	585	73.67	53.70	0.09	0.577	0.421	0.000	-72.0	-44.0	84.4	31
28	587	71.01	48.93	0.07	0.591	0.407	0.000	-74.6	-40.1	84.7	28
29	589	66.69	42.18	0.61	0.609	0.385	0.005	-76.7	-34.0	84.0	23
30	631	69.99	41.82	18.71	0.536	0.320	0.143	-74.6	15.6	78.0	11
31	702	73.30	41.33	39.75	0.474	0.267	0.257	-74.9	-5.7	75.2	355
32	706	73.69	40.41	47.04	0.457	0.250	0.291	-74.0	-13.8	75.3	349
33	711	74.05	39.70	53.95	0.441	0.236	0.321	-72.9	-21.3	75.9	343
34	724	74.48	38.97	65.18	0.416	0.218	0.364	-69.9	-33.1	77.3	334
35	727M	72.26	36.57	65.17	0.415	0.210	0.374	-69.2	-35.1	77.6	331
36	740	69.08	33.80	72.53	0.393	0.192	0.413	-63.3	-44.7	77.5	324
37	749	61.10	27.83	74.91	0.372	0.169	0.457	-54.7	-52.0	75.4	316
38	766	31.24	12.19	76.69	0.260	0.101	0.638	13.3	-66.6	67.9	281
39	828	13.25	6.34	78.11	0.135	0.064	0.799	-18.3	-72.8	75.1	255
U=D50			96.31	99.99	82.24	0.345	0.358	0.358	0.0	0.0	0.0
			$a^*_{p,m} = n_p \cdot P_p = 2.8 \cdot [(1.000x + 0.171 + 0.000z)/y]$			$A_m = (a - a_2) Y$			$C_{AB,m} = [A_m^2 + B_m^2]^{1/2}$		
			$b^*_{p,m} = n_b \cdot P_b = -1.0 \cdot [(0.000x + 0.000 + 1.000z)/y]$			$B_m = (b - b_2) Y$			$H_{AB,m} = \text{atan2}(B_m/A_m)$		

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no. O			tristimulus values and chromaticities			nu-chromatic values			nu-putities		
			X	Y	Z	x	y	y ₁₈			
00	396	31.24	12.19	76.69	0.260	0.101	0.638	13.3	-66.6	67.9	281
01	463	13.25	6.34	78.11	0.135	0.064	0.799	-18.3	-72.8	75.1	255
02	466	13.27	8.01	79.21	0.132	0.079	0.788	-21.8	-72.6	75.8	253
03	471	13.39	12.66	80.68	0.125	0.118	0.755	-30.8	-70.2	76.7	246
04	475B	14.00	19.21	81.44	0.122	0.167	0.710	-41.8	-65.6	77.8	237
05	479	15.61	27.50	81.85	0.124	0.220	0.655	-53.5	-59.2	78.9	227
06	481	18.42	36.66	82.05	0.134	0.267	0.598	-64.0	-51.9	82.4	219
07	483	20.35	41.45	82.11	0.141	0.288	0.570	-68.4	-48.0	83.5	215
08	484	22.64	46.29	82.14	0.149	0.306	0.543	-72.0	-44.0	84.4	211
09	485	25.29	51.06	82.16	0.159	0.322	0.518	-74.6	-40.1	84.7	208
10	486C	26.62	57.81	81.62	0.175	0.341	0.482	-76.7	-34.0	84.0	203
11	490	26.32	58.17	83.51	0.177	0.393	0.429	-76.4	-15.6	78.0	191
12	497	23.01	58.66	82.48	0.185	0.472	0.342	-74.0	-6.7	75.1	175
13	501	22.62	59.57	83.18	0.192	0.507	0.299	-74.0	13.7	75.3	169
14	506	22.26	60.29	82.28	0.200	0.543	0.255	-72.8	21.2	75.8	163
15	519	21.83	61.02	17.06	0.218	0.610	0.170	-69.8	33.1	77.3	154
16	522G	24.04	63.42	17.06	0.230	0.606	0.163	-69.1	35.0	77.5	153
17	535	27.22	66.19	9.71	0.263	0.641	0.094	-63.3	44.7	77.5	144
18	544	35.20	72.16	7.33	0.306	0.629	0.063	-54.6	52.0	75.4	136
19	541	65.07	87.80	5.54	0.410	0.554	0.041	-13.3	66.6	67.9	101
20	568	83.05	93.65	4.13	0.459	0.517	0.022	-18.3	72.8	75.1	75
21	569	83.03	91.98	3.02	0.466	0.516	0.016	-21.8	72.6	75.8	73
22	571	82.92	87.33	1.55	0.482	0.508	0.009	-30.9	70.2	76.7	66
23	573Y	82.30	80.76	0.80	0.502	0.492	0.004	-41.9	65.6	77.8	57
24	577	80.69	72.49	0.38	0.525	0.472	0.002	-53.5	59.2	78.9	47
25	581	77.87	63.33	0.18	0.550	0.447	0.001	-64.0	51.8	82.4	39
26	583	75.96	58.54	0.13	0.564	0.434	0.000	-68.4	-48.0	83.5	35
27	585	73.67	53.70	0.09	0.577	0.421	0.000	-72.0	-44.0	84.4	31
28	587	71.01	48.93	0.07	0.591	0.407	0.000	-74.6	-40.1	84.7	28
29	589	66.69	42.18	0.61	0.609	0.385	0.005	-76.7	-34.0	84.0	23
30	631	69.99	41.82	18.71	0.536	0.320	0.143	-74.6	15.6	78.0	11
31	702	73.30	41.33	39.75	0.474	0.267	0.257	-74.9	-5.7	75.2	355
32	706	73.69	40.41	47.04	0.457	0.250	0.291	-74.0	-13.8	75.3	349
33	711	74.05	39.70	53.95	0.441	0.236	0.321	-72.9	-21.3	75.9	343
34	724	74.48	38.97	65.18	0.416	0.218	0.364	-69.9	-33.1	77.3	334
35	727M	72.26	36.57	65.17	0.415	0.210	0.374	-69.2	-35.1	77.6	331
36	740	69.08	33.80	72.53	0.393	0.192	0.413	-63.3	-44.7	77.5	324
37	749	61.10	27.83	74.91	0.372	0.169	0.457	-54.7	-52.0	75.4	316
38	766	31.24	12.19	76.69	0.260	0.101	0.638	13.3	-66.6	67.9	281
39	828	13.25	6.34	78.11	0.135	0.064	0.799	-18.3	-72.8	75.1	255
U=D50			99.99	1.362	-0.822	1.591	328	0.0	0.0	0.0	0
			$a^*_{p,m} = n_p \cdot P_p = 2.8 \cdot [(1.000x + 0.171 + 0.000z)/y]$			$A_m = (a - a_2) Y$			$C_{AB,m} = [A_m^2 + B_m^2]^{1/2}$		
			$b^*_{p,m} = n_b \cdot P_b = -1.0 \cdot [(0.000x + 0.000 + 1.000z)/y]$			$B_m = (b - b_2) Y$			$H_{AB,m} = \text{atan2}(B_m/A_m)$		

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no. O		tristimulus values and chromaticities						nu-chromatic values			
λ_n		X	Y	Z	x	y	y_{18}	A_{nm}	B_{nm}	C_{nm}	h_{nm}
00	631	69.99	41.82	18.71	0.536	0.320	0.143	76.4	15.6	78.0	371
01	730	41.33	39.75	0.74	0.267	0.257	0.173	74.9	-5.7	75.2	355
02	736	73.69	40.41	0.74	0.250	0.251	0.171	74.0	-13.8	75.3	349
03	711	56.33	39.95	0.44	0.230	0.232	0.163	73.8	-11.3	75.1	327
04	704	44.78	38.97	0.18	0.416	0.218	0.364	69.9	-3.1	77.3	333
05	727M	72.26	36.57	0.17	0.415	0.210	0.374	69.2	-3.1	77.5	333
06	740	69.08	33.80	72.53	0.393	0.192	0.413	63.3	-44.7	77.5	324
07	710	11.01	27.83	0.17	0.415	0.210	0.374	69.2	-3.1	77.5	333
08	396	13.25	61.79	76.69	0.267	0.101	0.638	18.3	-66.6	69.1	255
09	463	13.25	61.79	76.69	0.267	0.101	0.638	18.3	-72.6	75.1	255
10	466	13.27	80.1	79.21	0.132	0.079	0.788	-18.1	-72.6	75.8	253
11	471	13.29	12.66	80.68	0.125	0.118	0.755	-30.8	-70.2	76.7	246
12	475B	14.00	19.21	81.44	0.122	0.167	0.617	-41.8	-65.6	77.8	237
13	480	14.00	19.21	81.44	0.122	0.167	0.617	-41.8	-65.6	77.8	237
14	481	18.42	36.66	82.05	0.134	0.267	0.598	-64.0	-51.9	82.4	219
15	483	20.35	41.45	82.11	0.141	0.288	0.570	-68.0	-48.0	83.5	215
16	484	22.64	46.29	82.14	0.149	0.306	0.543	-72.0	-44.0	84.4	211
17	485	25.05	51.06	82.16	0.158	0.324	0.518	-74.6	-40.0	85.1	207
18	486	26.63	55.87	82.18	0.175	0.341	0.518	-74.6	-40.0	85.1	207
19	490	26.63	55.87	82.18	0.175	0.341	0.518	-74.6	-40.0	85.1	207
20	490	26.63	55.87	82.18	0.175	0.341	0.518	-74.6	-40.0	85.1	207
21	501	23.61	58.68	42.48	0.185	0.477	0.342	-74.9	5.7	75.1	175
22	501	23.62	59.57	35.18	0.192	0.507	0.299	-74.0	13.7	75.3	169
23	502	22.60	60.29	28.28	0.206	0.544	0.255	-72.8	15.6	75.8	163
24	519E	21.83	61.02	17.06	0.218	0.610	0.170	-69.8	3.1	77.3	154
25	522	24.04	63.42	17.06	0.230	0.606	0.163	-69.1	35.0	77.5	153
26	535	27.22	66.19	9.71	0.263	0.641	0.094	-63.3	42.7	77.5	144
27	544	35.20	72.16	7.33	0.306	0.629	0.063	-53.4	52.0	75.4	136
28	545	35.20	72.16	7.33	0.306	0.629	0.063	-53.4	52.0	75.4	136
29	568	83.05	93.65	4.13	0.459	0.517	0.022	18.3	72.8	75.1	107
30	568	83.05	91.98	3.02	0.466	0.516	0.016	18.1	72.6	75.8	103
31	571	82.92	87.33	1.55	0.482	0.508	0.009	30.9	70.2	76.7	96
32	573	82.90	80.76	0.80	0.502	0.492	0.004	41.9	65.6	77.8	97
33	580	69.08	72.16	0.06	0.602	0.303	0.093	70.8	44.0	84.4	88
34	581	77.87	63.33	0.18	0.550	0.447	0.001	64.0	51.8	82.4	89
35	583	75.96	58.14	0.13	0.564	0.434	0.000	68.4	48.0	83.6	35
36	585	73.67	53.73	0.09	0.577	0.421	0.000	72.0	44.0	84.4	31
37	587M	71.01	49.93	0.07	0.591	0.407	0.000	74.0	40.1	84.8	28
38	591	66.89	42.18	0.06	0.602	0.303	0.093	70.8	44.0	84.4	28
39	603	69.99	41.82	0.71	0.536	0.320	0.143	76.4	15.6	78.0	11
40	731	73.39	41.33	39.75	0.474	0.267	0.257	74.9	-5.7	75.2	-4
$U=50.96$ $V=31.29$ $W=82.24$ 3.45 0.358 0.358 0.0 0.0 0.0 0.0 0.0 0.0											
$a^*_m = \rho_{nm} - 2.81 [1.000(x - 0.171 + 0.002)y] \quad B_m = (a - a_0) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - 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y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 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1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.000(x + 0.001 + 1.014)y] \quad B_m = (-b - y) \quad Y = C_{\text{Adm}} + B_m^{1/2} \quad B^*_{nm} = \rho_{nm} - 1.0 [0.$											

see similar files: <http://farbe.li.tu-berlin.de/DE72/DE72L0NP.PDF> /[.PS](http://farbe.li.tu-berlin.de/DE72/DE72L0NP.PDF)
technical information: <http://farbe.li.tu-berlin.de/DE72/DE72L0NP.PDF> /[.PS](http://farbe.li.tu-berlin.de/DE72/DE72L0NP.PDF)

TUB registration: 20180801-DE72/DE72L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

CIE10 tristimulus values, chromatic values, and putties ($n_s=2.8, n_b=-1.0$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.											
no.	O	C	tristimulus values and chromaticities			nu-chromatic values			nu-putties		
			X	Y	Z	x	y	z	X _u	Y _u	Z _u
00	376	55.24	26.06	71.08	0.362	0.171	0.466	45.8	-49.9	67.8	312
01	458	13.22	7.40	75.87	0.136	0.076	0.786	-19.3	-69.8	72.5	254
02	460	13.26	8.89	77.33	0.133	0.089	0.777	-22.7	-70.1	73.7	252
03	462	13.28	10.68	78.42	0.129	0.104	0.765	-26.5	-69.7	74.6	249
04	462	13.28	10.68	78.42	0.129	0.104	0.765	-26.5	-69.7	74.6	249
05	468	13.66	17.92	80.19	0.122	0.160	0.717	-39.9	-65.6	76.8	238
06	471	14.70	24.41	80.73	0.122	0.203	0.673	-49.7	-60.9	78.6	230
07	473	15.60	28.17	80.89	0.125	0.225	0.648	-54.7	-58.0	79.7	226
08	475	18.32	36.37	81.08	0.134	0.267	0.597	-63.7	-51.5	81.9	218
09	477	22.35	45.10	81.16	0.150	0.303	0.546	-70.5	-44.5	83.4	212
10	477C	22.35	45.10	81.16	0.150	0.303	0.546	-70.5	-44.5	83.4	212
11	479	27.82	53.94	81.17	0.170	0.331	0.498	-74.2	-37.3	83.1	206
12	480	30.64	58.21	79.19	0.182	0.346	0.471	-74.7	-31.9	81.2	203
13	484	25.67	56.42	59.80	0.180	0.397	0.421	-73.6	-14.0	74.9	190
14	492	22.50	56.65	38.03	0.192	0.483	0.324	-71.0	7.9	71.4	173
15	503	21.56	57.40	24.28	0.208	0.555	0.235	-67.9	22.2	71.5	161
16	512G	22.19	58.45	18.53	0.223	0.589	0.186	-65.7	28.9	71.8	156
17	521	24.28	60.61	13.79	0.246	0.614	0.139	-62.6	35.3	71.9	150
18	531	29.00	64.47	10.07	0.280	0.622	0.097	-57.0	42.2	71.9	143
19	541	41.29	73.93	10.07	0.330	0.580	0.080	-45.8	49.9	67.7	132
20	563	83.41	92.59	5.28	0.460	0.510	0.029	-19.4	69.8	72.5	74
21	564	83.37	91.09	3.82	0.467	0.510	0.021	-22.8	70.0	73.7	71
22	565	83.35	89.31	2.74	0.475	0.509	0.015	-26.5	69.7	74.6	69
23	565Y	83.35	89.31	2.74	0.475	0.509	0.015	-26.5	69.7	74.6	69
24	568	82.96	82.07	0.96	0.499	0.494	0.005	-39.9	65.6	76.8	28
25	571	81.93	75.58	0.44	0.518	0.478	0.002	-49.8	60.8	78.6	50
26	573	81.03	71.82	0.27	0.529	0.469	0.001	-54.8	58.0	79.8	46
27	577	78.31	63.62	0.08	0.551	0.447	0.000	-63.7	51.5	82.0	38
28	581	74.28	54.89	0.01	0.575	0.424	0.000	-70.6	44.5	83.5	32
29	581	74.28	54.89	0.01	0.575	0.424	0.000	-70.6	44.5	83.5	32
30	587	68.81	46.05	0.00	0.599	0.400	0.000	-74.3	37.3	83.2	26
31	589	67.60	44.04	0.93	0.600	0.391	0.008	-74.8	34.8	82.5	24
32	692	70.96	43.57	21.37	0.522	0.320	0.157	-73.7	13.9	75.0	10
33	697	74.12	43.34	43.14	0.461	0.269	0.268	-71.0	-7.9	71.4	353
34	708	75.07	42.59	56.88	0.430	0.244	0.365	-68.0	-22.3	71.6	341
35	717M	74.44	41.54	62.63	0.416	0.232	0.350	-67.6	-28.9	71.8	336
36	726	72.35	39.38	67.37	0.403	0.219	0.376	-62.6	-35.4	71.9	330
37	736	67.62	35.52	71.08	0.388	0.203	0.408	-57.0	-42.2	71.0	323
38	746	55.24	26.06	71.08	0.362	0.171	0.466	-45.8	-49.9	67.8	312
39	823	13.22	7.40	75.87	0.136	0.076	0.786	-19.3	-69.8	72.5	254
U=D50 96.63 100.00 81.17 0.347 0.359 0.359 0.0 0.0 0.0 0.0 0.0 0.0											
$a^*_{p,m} = n_p \cdot a^*_{p,m} = 2.8[(1.000x - 0.171 + 0.000z)/y]$ $A_m = (a^* - a^*)_Y$ $C_{AB,m} = [A^2 + B^2]^{1/2}$ $b^*_{p,m} = n_b \cdot b^*_{p,m} = -1.0[(0.000x + 0.000 + 1.000z)/y]$ $B_m = (b^* - b^*)_Y$ $H_{AB,m} = \text{atan2}[B_m/A_m]$											

CIE10 tristimulus values, chromatic values, and putties ($n_s=2.8, n_b=-1.0$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.											
no.	O	C	tristimulus values and chromaticities			nu-chromatic values			nu-putties		
			X	Y	Z	x	y	z	X _u	Y _u	Z _u
00	376	26.06	3.13	-2.72	4.15	318	1.76	-1.91	2.60	312	
01	458	7.40	-1.24	-10.25	10.32	263	-2.61	-9.44	9.79	254	
02	460	8.89	-1.18	-8.68	8.76	262	-2.55	-7.87	8.28	252	
03	462	10.68	-1.10	-7.34	7.42	261	-2.48	-6.53	6.98	249	
04	462	10.68	-1.10	-7.34	7.42	261	-2.48	-6.53	6.98	249	
05	468	17.92	-0.85	-4.47	4.55	259	-2.22	-3.66	4.28	238	
06	471	24.41	-0.66	-3.30	3.37	258	-2.03	-2.49	3.22	230	
07	473	28.17	-0.56	-2.87	2.92	258	-1.94	-2.06	2.83	226	
08	475	36.37	-0.37	-2.22	2.26	260	-1.75	-1.41	2.25	218	
09	477	45.10	-0.19	-1.79	1.80	263	-1.56	-0.98	1.85	212	
10	477C	45.10	-0.19	-1.79	1.80	263	-1.56	-0.98	1.85	212	
11	479	53.94	-0.00	-1.50	1.50	269	-1.37	-0.69	1.54	206	
12	480	58.21	0.09	-1.36	1.36	273	-1.28	-0.54	1.39	203	
13	484	56.42	0.06	-1.05	1.06	273	-1.30	-0.24	1.32	190	
14	492	56.65	0.02	-0.67	0.68	273	-1.25	0.14	1.26	173	
15	503	57.40	0.19	-0.42	0.46	294	-1.18	0.38	1.24	161	
16	512G	58.45	0.25	-0.31	0.40	308	-1.12	0.49	1.22	156	
17	521	60.61	0.34	-0.22	0.41	326	-1.03	0.58	1.18	150	
18	531	64.47	0.49	-0.15	0.51	342	-0.88	0.65	1.10	143	
19	541	73.93	0.93	0.12	0.93	340	-0.61	0.91	0.93	132	
20	563	92.59	1.58	-0.05	1.58	357	-0.20	0.75	0.78	74	
21	564	91.09	1.62	-0.04	1.62	358	-0.25	0.76	0.80	71	
22	565	89.31	1.67	-0.03	1.67	358	-0.29	0.78	0.83	69	
23	565Y	89.31	1.67	-0.03	1.67	358	-0.29	0.78	0.83	69	
24	568	82.07	0.96	0.01	1.86	359	-0.48	0.79	0.93	58	
25	571	75.58	2.03	-0.00	2.03	359	-0.65	0.80	1.04	50	
26	573	71.82	2.13	-0.00	2.13	359	-0.76	0.80	1.11	46	
27	577	63.62	2.37	-0.00	2.37	359	-1.00	0.81	1.28	38	
28	581	54.89	2.66	-0.00	2.66	359	-1.28	0.81	1.52	32	
29	581	54.89	2.66	-0.00	2.66	359	-1.28	0.81	1.52	32	
30	587	46.05	2.98	0.00	2.98	0	-1.61	0.81	1.80	26	
31	589	44.04	3.07	-0.02	3.07	359	-1.69	0.79	1.87	24	
32	692	43.57	3.06	-0.49	3.10	359	-1.69	0.32	1.72	10	
33	697	43.34	3.01	-0.99	3.17	341	-1.63	-0.18	1.64	353	
34	708	42.59	2.97	-1.33	3.25	335	-1.59	-0.52	1.68	341	
35	717M	41.54	2.95	-1.30	3.32	332	-1.58	-0.69	1.73	336	
36	726	39.38	2.96	-1.71	3.42	330	-1.59	-0.89	1.82	330	
37	736	35.52	2.98	-2.00	3.59	326	-1.60	-1.18	1.99	323	
38	746	26.06	3.13	-2.72	4.15	318	-1.76	-1.91	2.60	312	
39	823	7.40	-1.24	-10.25	10.32	263	-2.61	-9.44	9.79	254	
U=D50 100.00 1.375 -0.811 1.596 329 0.0 0.0 0.0 0.0 0.0 0.0											
$a^*_{p,m} = n_p \cdot a^*_{p,m} = 2.8[(1.000x - 0.171 + 0.000z)/y]$ $A_m = (a^* - a^*)_Y$ $C_{AB,m} = [A^2 + B^2]^{1/2}$ $b^*_{p,m} = n_b \cdot b^*_{p,m} = -1.0[(0.000x + 0.000 + 1.000z)/y]$ $B_m = (b^* - b^*)_Y$ $H_{AB,m} = \text{atan2}[B_m/A_m]$											

CIE10 tristimulus values, chromatic values, and putties ($n_s=2.8, n_b=-1.0$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by hue angle.											
no.	O	C	tristimulus values and chromaticities						nu-chromatic values		
			X	Y	Z	x	y	z	X_u	Y_u	Z_u
00	692	70.96	43.57	21.37	0.522	0.320	0.157	-73.7	13.9	75.0	370
01	697	74.12	43.34	43.14	0.461	0.269	0.268	-71.0	-7.9	71.4	353
02	708	75.07	42.59	56.88	0.430	0.244	0.325	-68.0	-22.3	71.6	341
03	717	74.44	41.54	62.63	0.416	0.232	0.350	-67.6	-28.9	71.8	336
04	726	72.35	39.38	67.37	0.403	0.219	0.376	-62.6	-35.4	71.9	330
05	736	67.62	35.52	71.08	0.388	0.203	0.408	-57.0	-42.2	71.0	323
06	376	55.24	26.06	71.08	0.362	0.171	0.466	-45.8	-49.9	67.8	312
07	458	13.22	7.40	75.87	0.136	0.076	0.786	-19.3	-69.8	72.5	254
08	460	13.26	8.89	77.33	0.133	0.089	0.777	-22.7	-70.1	73.7	252
09	462	13.28	10.68	78.42	0.129	0.104	0.765	-26.5	-69.7	74.6	249
10	462	13.28	10.68	78.42	0.129	0.104	0.765	-26.5	-69.7	74.6	249
11	468	13.66	17.92	80.19	0.122	0.160	0.717	-29.9	-65.6	76.8	238
12	471	14.70	24.41	80.73	0.122	0.203	0.673	-49.7	-60.9	78.6	230
13	473	15.09	30.12	81.26	0.122	0.246	0.630	-52.7	-61.4	79.1	227
14	475	18.32	36.67	80.88	0.128	0.314	0.567	-59.7	-51.5	81.9	218
15	477	22.35	45.10	81.16	0.150	0.303	0.546	-70.5	-44.5	83.4	212
16	477	22.35	45.10	81.16	0.150	0.303	0.546	-70.5	-44.5	83.4	212
17	479	27.82	53.94	81.17	0.170	0.331	0.498	-74.7	-37.3	83.1	206
18	481	33.99	61.89	81.17	0.190	0.331	0.498	-76.9	-34.4	83.1	202
19	484	25.65	56.42	59.80	0.180	0.397	0.421	-73.6	-14.0	74.9	190
20	492	22.50	56.65	38.03	0.192	0.483	0.324	-71.0	7.9	71.4	173
21	503	21.56	57.40	24.28	0.208	0.555	0.235	-67.9	22.2	71.5	161
22	512	22.29	58.45	18.53	0.223	0.589	0.186	-65.7	28.8	70.8	156
23	522	22.98	60.61	12.79	0.249	0.639	0.148	-62.9	35.4	70.4	148
24	531	29.00	64.47	10.07	0.280	0.622	0.097	-57.0	42.2	70.9	143
25	541	41.39	73.93	10.07	0.330	0.589	0.080	-45.8	49.9	67.7	132
26	563	81.41	92.59	5.28	0.460	0.510	0.029	-19.4	69.8	72.5	74
27	566	83.37	91.99	3.82	0.467	0.510	0.021	-22.8	70.0	72.8	70
28	567	84.74	89.31	2.47	0.475	0.509	0.015	-26.5	69.5	74.6	69
29	565	83.35	89.31	2.74	0.475	0.509	0.015	-26.5	69.7	74.6	69
30	568	82.96	82.07	0.96	0.499	0.494	0.005	-39.9	65.6	76.8	58
31	571	81.93	75.48	0.44	0.518	0.478	0.002	-49.8	60.8	78.6	50
32	573	81.03	71.62	0.27	0.529	0.469	0.001	-54.8	58.0	78.8	46
33	578	70.43	63.68	0.08	0.557	0.429	0.015	-62.9	50.4	78.1	37
34	581	74.28	54.89	0.01	0.575	0.424	0.000	-70.6	44.5	83.5	32
35	581	74.28	54.89	0.01	0.575	0.424	0.000	-70.6	44.5	83.5	32
36	587	68.81	46.05	0.00	0.599	0.400	0.000	-74.3	37.3	83.2	26
37	589	67.60	44.34	0.03	0.600	0.393	0.000	-74.8	33.8	82.5	24
38	593	70.43	43.63	0.00	0.627	0.320	0.157	-73.7	13.9	75.0	370
39	697	74.12	43.34	43.14	0.461	0.269	0.268	-71.0	-7.9	71.4	353
U=D50 96.63(100.00 0.117 0.347 0.359 0.359) 0.00 0.00 0.00											
$a_{p=0} = a_{p=0} - 0.68(1.000(-0.017(1.000)0.0))$ $A_u = (a-u)_u$ $C_{A,u} = [A_u - B_u]_{A,u}^{1,2}$											
$b_{p=0} = b_{p=0} - 1.01(0.000(+0.000(1.000)0.0))$ $B_u = (b-u)_u$ $C_{B,u} = [B_u - A_u]_{B,u}^{1,2}$											

DE70-70

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technical information: <http://farbe.li-tu-berlin.de> or <http://130.149.60.45/~farbmeterik>

<http://farbe.li-tu-berlin.de/DE72/DE72L0NP.PDF> /PS

N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 3/6

CIEF02 tristimulus values, chromatic values, and putities ($n_s=2.8, n_b=-1.0$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.													
no.	O	C	tristimulus values and chromaticities			nu-chromatic values			nu-purities				
			X	Y	Z	x	y	z	λ_{max}	λ_{min}	P_{max}	P_{min}	
00 386	51.50	23.94	74.68	0.343	0.159	0.497	39.6	-55.0	67.7	305	1.65	-2.29	2.83
01 460	12.38	6.54	76.19	0.130	0.068	0.801	-19.8	-70.8	73.5	254	-3.02	-10.82	11.24
02 465	12.41	9.58	78.25	0.123	0.095	0.780	-26.3	-70.3	75.1	249	-2.74	-7.34	7.84
03 467	14.25	11.64	78.87	0.120	0.113	0.766	-30.3	-69.3	75.6	246	-2.60	-5.95	6.50
04 473B	13.31	20.43	79.83	0.117	0.179	0.702	-45.0	-63.0	77.4	234	-2.40	-3.08	3.79
05 475	14.02	24.19	79.97	0.118	0.204	0.676	-50.3	-60.0	78.4	230	-2.08	-2.48	3.24
06 479	17.82	36.91	80.16	0.132	0.273	0.594	-65.1	-49.8	81.9	217	-1.76	-1.34	2.22
07 479	17.82	36.91	80.16	0.132	0.273	0.594	-65.1	-49.8	81.9	217	-1.76	-1.34	2.22
08 481	21.98	46.03	80.19	0.148	0.310	0.541	-72.3	-42.3	83.8	210	-1.57	-0.92	1.82
09 481	21.98	46.03	80.19	0.148	0.310	0.541	-72.3	-42.3	83.8	210	-1.57	-0.92	1.82
10 483C	27.52	55.03	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
11 484	28.85	57.21	79.07	0.174	0.346	0.478	-74.6	-32.0	82.8	202	-1.33	-0.56	1.44
12 489	25.36	57.41	57.70	0.180	0.408	0.410	-74.6	-10.5	75.4	188	-1.30	-0.18	1.31
13 497	22.33	57.50	36.81	0.191	0.492	0.315	-71.8	10.4	72.6	171	-1.25	0.18	1.26
14 505	21.31	58.03	24.30	0.205	0.559	0.234	-69.2	23.3	73.0	161	-1.19	0.40	1.25
15 512	21.41	58.69	18.79	0.216	0.593	0.190	-67.5	29.4	73.7	156	-1.15	0.50	1.25
16 521G	22.42	59.91	14.10	0.232	0.621	0.146	-65.2	35.1	74.1	151	-1.08	0.58	1.23
17 524	25.32	62.97	14.10	0.247	0.615	0.137	-64.1	37.6	74.3	149	-1.01	0.59	1.18
18 539	30.29	66.55	7.57	0.290	0.637	0.072	-56.0	47.1	73.2	139	-0.84	0.70	1.10
19 541	44.95	76.05	5.33	0.355	0.601	0.043	-38.0	65.0	79.6	124	-0.50	0.74	0.90
20 568	84.08	93.45	4.02	0.463	0.514	0.022	-20.8	72.7	75.7	74	0.22	0.77	0.81
21 568	84.08	93.45	4.02	0.463	0.514	0.022	-20.8	72.7	75.7	74	0.22	0.77	0.81
22 569	84.05	90.41	1.96	0.476	0.512	0.011	-27.3	72.3	77.3	69	0.30	0.80	0.85
23 570Y	84.04	88.35	1.33	0.483	0.508	0.007	-31.3	71.2	77.8	66	0.35	0.80	0.88
24 573	83.15	79.56	0.38	0.509	0.487	0.002	-46.1	65.0	79.6	54	0.57	0.81	1.00
25 575	82.44	75.00	0.24	0.520	0.478	0.001	-51.3	62.0	80.5	50	0.67	0.81	1.06
26 580	78.64	63.07	0.05	0.554	0.444	0.000	-66.1	51.7	84.0	38	1.04	0.82	1.33
27 580	78.64	63.07	0.05	0.554	0.444	0.000	-66.1	51.7	84.0	38	1.04	0.82	1.33
28 585	74.48	53.96	0.02	0.579	0.420	0.000	-73.3	44.3	85.6	31	1.35	0.82	1.58
29 590	68.94	44.96	0.00	0.605	0.394	0.000	-77.0	36.9	85.4	25	1.71	0.82	1.90
30 592	67.61	42.78	1.14	0.606	0.383	0.010	-77.4	34.0	84.6	23	1.81	0.79	1.97
31 694	71.10	42.58	22.52	0.522	0.312	0.165	-75.6	12.4	76.7	9	1.77	0.29	1.80
32 702	74.12	42.49	43.40	0.463	0.265	0.271	-72.8	-8.4	73.3	353	-1.71	-0.19	1.72
33 710	75.15	41.96	55.91	0.434	0.242	0.323	-70.2	-21.4	73.4	343	-1.67	-0.51	1.75
34 717	75.05	41.30	61.43	0.422	0.232	0.345	-68.5	-27.4	73.8	338	-1.66	-0.66	1.78
35 726G	74.04	40.08	66.11	0.410	0.222	0.360	-66.2	-33.1	74.0	333	-1.65	-0.82	1.84
36 729	71.14	37.02	66.11	0.408	0.212	0.379	-65.1	-35.6	74.3	331	-1.76	-0.96	2.00
37 744	66.16	33.43	72.64	0.384	0.194	0.421	-57.0	-45.1	72.7	321	-1.70	-1.35	2.17
38 756	51.50	23.94	74.68	0.343	0.159	0.497	-39.6	-55.0	67.7	305	1.65	-2.29	2.83
39 825	12.38	6.54	76.19	0.130	0.068	0.801	-19.8	-70.8	73.5	254	-3.02	-10.82	11.24
U=D50	96.46	100.00	82.22	0.346	0.358	0.358	0.0	0.0	0.0	0.0	0.0	0.0	0.0
$a^*_{P_{\text{max}}}=n_a P_{\text{max}}=2.8(1.000x+0.171y+0.000z)/y$ $A_{\text{max}}=(a-a_2)/Y$ $C_{\text{ABmax}}=[A^2_{\text{max}}+B^2_{\text{max}}]^{1/2}$ $b^*_{P_{\text{min}}}=n_b P_{\text{min}}=-1.0(0.000x+0.000y+1.000z)/y$ $B_{\text{min}}=(b-b_2)/Y$ $h_{\text{ABmin}}=\text{atan2}(B_{\text{min}}/A_{\text{min}})$													

CIEF02 tristimulus values, chromatic values, and putities ($n_s=2.8, n_b=-1.0$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.													
no.	O	C	tristimulus values and chromaticities					nu-purities					
			X	Y	Z	x	y	z	λ_{max}	λ_{min}	P_{max}	P_{min}	
00 386	51.50	23.94	74.68	0.343	0.159	0.497	39.6	-55.0	67.7	305	1.65	-2.29	2.83
01 460	12.38	6.54	76.19	0.130	0.068	0.801	-19.8	-70.8	73.5	254	-3.02	-10.82	11.24
02 465	12.41	9.58	78.25	0.123	0.095	0.780	-26.3	-70.3	75.1	249	-2.74	-7.34	7.84
03 467	14.25	11.64	78.87	0.120	0.113	0.766	-30.3	-69.3	75.6	246	-2.60	-5.95	6.50
04 473B	20.43	20.43	79.83	0.117	0.179	0.702	-45.0	-63.0	77.4	234	-2.40	-3.08	3.79
05 475	24.19	24.19	79.97	0.118	0.204	0.676	-50.3	-60.0	78.4	230	-2.08	-2.48	3.24
06 479	36.91	36.91	80.16	0.132	0.273	0.594	-65.1	-49.8	81.9	217	-1.76	-1.34	2.22
07 479	36.91	36.91	80.16	0.132	0.273	0.594	-65.1	-49.8	81.9	217	-1.76	-1.34	2.22
08 481	46.03	46.03	80.19	0.148	0.310	0.541	-72.3	-42.3	83.8	210	-1.57	-0.92	1.82
09 481	46.03	46.03	80.19	0.148	0.310	0.541	-72.3	-42.3	83.8	210	-1.57	-0.92	1.82
10 483C	55.03	55.03	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
11 484	57.21	57.21	79.07	0.174	0.346	0.478	-74.6	-32.0	82.8	202	-1.33	-0.56	1.44
12 489	57.41	57.41	79.07	0.174	0.346	0.478	-74.6	-32.0	82.8	202	-1.33	-0.56	1.44
13 497	57.50	57.50	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
14 505	58.03	58.03	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
15 512	58.69	58.69	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
16 521G	59.91	59.91	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
17 524	62.97	62.97	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
18 539	66.55	66.55	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
19 541	76.05	76.05	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
20 568	93.45	93.45	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
21 568	93.45	93.45	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
22 569	90.41	90.41	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
23 570Y	88.35	88.35	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
24 573	79.56	79.56	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
25 575	75.00	75.00	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
26 580	63.07	63.07	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
27 580	63.07	63.07	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
28 585	53.96	53.96	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
29 590	44.96	44.96	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
30 592	42.78	42.78	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
31 694	42.58	42.58	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
32 702	42.49	42.49	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
33 710	41.96	41.96	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
34 717	41.30	41.30	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
35 726G	40.08	40.08	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
36 729	37.02	37.02	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
37 744	33.43	33.43	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
38 756	32.92	32.92	80.21	0.169	0.338	0.492	-76.0	-34.9	83.7	204	-1.38	-0.63	1.52
39 825	6.54	6.54	76.19	0.130	0.068	0.801	-19.8	-70.8	73.5	254	-3.02	-10.82	11.24
U=D50	100	100	1.666	-0.821	1.594	328	0	0	0	0	1.02	0.25	0.54

see similar files: <http://farbe.li.tu-berlin.de/DE72/DE72L0NP.PDF> /PS
technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmatrik>

TUB registration: 20180801-DE72/DE72L0NP.PDF /PS
application for measurement of offset print output

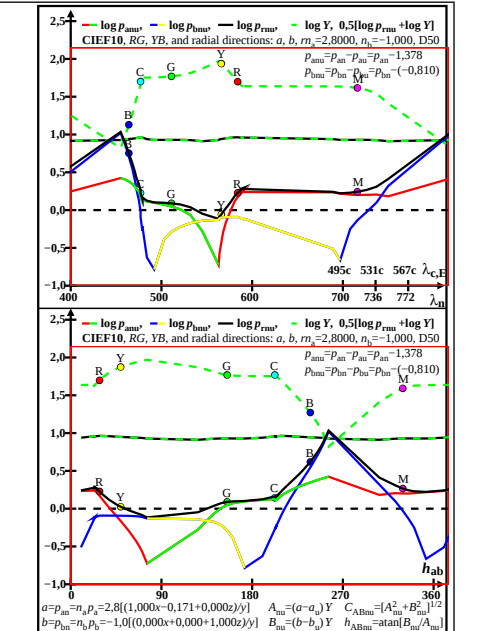
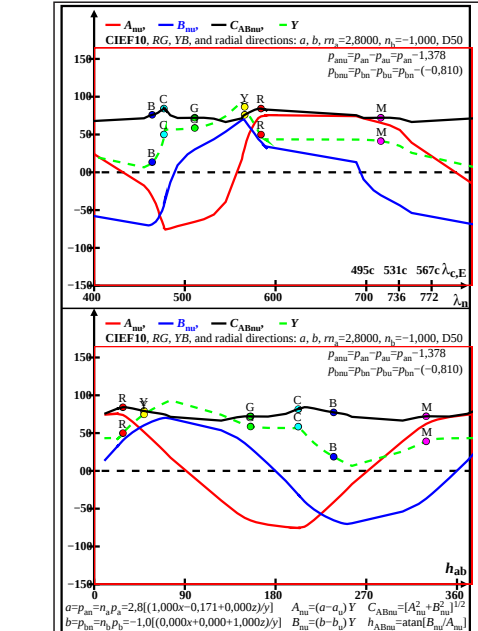
TUB material: code=rha4ta

TUB-test chart DE72; 4 CIE and 2 R17M observers, colorimetric calculations of chromatic values
purity definition: $a=2,8[(x-0,171)/y]$, $b=-1,0[z/y]$

http://farbe.li.tu-berlin.de/DE72/DE72L0NP.PDF /PS
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 4/6

CIEF10 tristimulus values, chromatic values, and putities ($n_s=2,8, n_b=-1,0$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.											
no. O			tristimulus values and chromaticities			nu-chromatic values			nu-putities		
			X	Y	Z	x	y	z	A _m	B _m	h _{abm}
00	380	52,92	25,78	74,65	0,345	0,168	0,486	39,2	-53,7	66,5	306
01	455	13,14	6,61	74,65	0,139	0,070	0,790	-17,5	-69,2	71,4	255
02	460	13,28	9,49	77,94	0,131	0,094	0,773	-24,1	-70,2	74,2	251
03	462	13,30	11,32	78,97	0,128	0,109	0,762	-27,9	-69,7	75,1	248
04	468	13,34	13,45	79,69	0,125	0,126	0,748	-32,1	-68,7	75,9	244
05	468	13,69	18,67	80,47	0,121	0,165	0,713	-41,4	-65,3	77,3	237
06	471	14,73	25,21	80,80	0,121	0,208	0,669	-51,3	-60,3	79,2	229
07	472	15,63	28,96	80,89	0,124	0,230	0,644	-56,2	-57,4	80,3	225
08	475	18,33	37,06	80,98	0,134	0,271	0,593	-65,0	-50,9	82,6	218
09	477	22,39	45,70	81,01	0,150	0,306	0,543	-71,6	-43,9	84,1	211
10	477C	24,94	50,08	81,01	0,159	0,320	0,519	-73,9	-40,4	84,2	208
11	479	30,58	58,60	78,68	0,182	0,349	0,468	-75,5	-31,2	81,7	202
12	479	29,07	56,38	80,12	0,175	0,340	0,483	-75,5	-34,4	83,0	204
13	484	25,63	56,72	79,32	0,180	0,400	0,418	-74,2	-13,3	75,4	190
14	492	22,37	56,85	76,73	0,192	0,490	0,316	-71,9	9,3	71,8	172
15	503	21,57	57,63	72,95	0,211	0,564	0,224	-67,9	23,7	71,9	160
16	511G	22,30	58,68	72,25	0,227	0,597	0,175	-65,4	30,6	72,1	155
17	521	24,56	60,88	72,62	0,250	0,620	0,128	-62,0	36,6	72,1	149
18	532	29,89	65,12	63,04	0,287	0,625	0,086	-55,9	43,7	70,9	141
19	545	43,82	74,21	6,37	0,352	0,596	0,051	-39,1	53,7	66,5	126
20	563	83,59	93,38	6,37	0,455	0,509	0,034	-17,5	69,2	71,4	75
21	564	83,45	90,50	3,08	0,471	0,511	0,017	-24,1	70,2	74,2	71
22	565	83,43	88,67	2,06	0,479	0,509	0,011	-27,9	69,7	75,1	68
23	566Y	83,39	86,54	1,34	0,486	0,505	0,007	-32,2	68,7	75,9	64
24	568	83,04	81,32	0,56	0,503	0,493	0,003	-62,1	-36,7	75,1	48
25	571	82,00	74,78	0,23	0,522	0,476	0,001	-51,3	-60,3	79,2	47
26	573	81,10	71,03	0,14	0,532	0,466	0,000	-56,2	-57,3	80,3	45
27	577	78,40	62,93	0,05	0,554	0,445	0,000	-65,0	-50,9	82,6	38
28	581	74,33	54,29	0,02	0,577	0,421	0,000	-71,7	-43,9	84,1	31
29	584	71,79	49,91	0,01	0,589	0,410	0,000	-73,9	-40,4	84,2	28
30	591	66,15	41,39	2,33	0,602	0,376	0,021	-75,5	-31,2	81,7	22
31	588	67,67	43,61	0,91	0,603	0,388	0,008	-75,6	-34,4	83,1	24
32	689	71,10	43,27	21,71	0,522	0,317	0,159	-74,2	13,3	75,4	10
33	697	74,36	43,14	44,30	0,459	0,266	0,273	-71,2	-9,3	71,8	352
34	708	75,16	42,36	58,08	0,428	0,241	0,330	-65,9	-30,3	72,1	335
35	716M	74,43	41,31	63,78	0,414	0,230	0,353	-62,1	-36,7	72,1	330
36	726	72,17	39,11	68,41	0,401	0,217	0,380	-62,1	-36,7	72,1	329
37	737	66,83	34,86	71,99	0,384	0,200	0,414	-55,9	-43,7	71,0	321
38	750	52,92	25,78	74,65	0,345	0,168	0,486	-39,2	-53,7	66,5	306
39	820	13,14	6,61	74,65	0,139	0,070	0,790	-17,5	-69,2	71,4	255
U=D50 96,74 100,00 81,03 0,348 0,360 0,360 0,0 0,0 0,0 0,0											
$a^*_{Pm} = n_a P_m = 2,8[(1,000x - 0,171 + 0,000z)/y]$ $A_m = (a - a_0) Y$ $C_{ABm} = [A_m^2 + B_m^2]^{1/2}$ $b^*_{Pm} = n_b P_m = -1,0[(0,000x + 0,000 + 1,000z)/y]$ $B_m = (b - b_0) Y$ $h_{ABm} = \text{atan2}(B_m/A_m)$											

CIEF10 tristimulus values, chromatic values, and putities ($n_s=2,8, n_b=-1,0$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.											
no. O			tristimulus values and chromaticities			nu-chromatic values			nu-putities		
			X	Y	Z	x	y	z	A _m	B _m	h _{abm}
00	380	52,92	25,78	74,65	0,345	0,168	0,486	39,2	-53,7	66,5	306
01	455	13,14	6,61	74,65	0,139	0,070	0,790	-17,5	-69,2	71,4	255
02	460	13,28	9,49	77,94	0,131	0,094	0,773	-24,1	-70,2	74,2	251
03	462	13,30	11,32	78,97	0,128	0,109	0,762	-27,9	-69,7	75,1	248
04	468	13,34	13,45	79,69	0,125	0,126	0,748	-32,1	-68,7	75,9	244
05	468	13,69	18,67	80,47	0,121	0,165	0,713	-41,4	-65,3	77,3	237
06	471	14,73	25,21	80,80	0,121	0,208	0,669	-51,3	-60,3	79,2	229
07	472	15,63	28,96	80,89	0,124	0,230	0,644	-56,2	-57,4	80,3	225
08	475	18,33	37,06	80,98	0,134	0,271	0,593	-65,0	-50,9	82,6	218
09	477	22,39	45,70	81,01	0,150	0,306	0,543	-71,6	-43,9	84,1	211
10	477C	24,94	50,08	81,01	0,159	0,320	0,519	-73,9	-40,4	84,2	208
11	479	30,58	58,60	78,68	0,182	0,349	0,468	-75,5	-31,2	81,7	202
12	479	29,07	56,38	80,12	0,175	0,340	0,483	-75,5	-34,4	83,0	204
13	484	25,63	56,72	79,32	0,180	0,400	0,418	-74,2	-13,3	75,4	190
14	492	22,37	56,85	76,73	0,192	0,490	0,316	-71,9	9,3	71,8	172
15	503	21,57	57,63	72,95	0,211	0,564	0,224	-67,9	23,7	71,9	160
16	511G	22,30	58,68	72,25	0,227	0,597	0,175	-65,4	30,6	72,1	155
17	521	24,56	60,88	72,62	0,250	0,620	0,128	-62,0	36,6	72,1	149
18	532	29,89	65,12	63,04	0,287	0,625	0,086	-55,9	43,7	70,9	141
19	545	43,82	74,21	6,37	0,352	0,596	0,051	-39,1	53,7	66,5	126
20	563	83,59	93,38	6,37	0,455	0,509	0,034	-17,5	69,2	71,4	75
21	564	83,45	90,50	3,08	0,471	0,511	0,017	-24,1	70,2	74,2	71
22	565	83,43	88,67	2,06	0,479	0,509	0,011	-27,9	69,7	75,1	68
23	566Y	83,39	86,54	1,34	0,486	0,505	0,007	-32,2	68,7	75,9	64
24	568	83,04	81,32	0,56	0,503	0,493	0,003	-62,1	-36,7	75,1	48
25	571	82,00	74,78	0,23	0,522	0,476	0,001	-51,3	-60,3	79,2	47
26	573	81,10	71,03	0,14	0,532	0,466	0,000	-56,2	-57,3	80,3	45
27	577	78,40	62,93	0,05	0,554	0,445	0,000	-65,0	-50,9	82,6	38
28	581	74,33	54,29	0,02	0,577	0,421	0,000	-71,7	-43,9	84,1	31
29	584	71,79	49,91	0,01	0,589	0,410	0,000	-73,9	-40,4	84,2	28
30	591	66,15	41,39	2,33	0,602	0,376	0,021	-75,5	-31,2	81,7	22
31	588	67,67	43,61	0,91	0,603	0,388	0,008	-75,6	-34,4	83,1	24
32	689	71,10	43,27	21,71	0,522	0,317	0,159	-74,2	13,3	75,4	10
33	697	74,36	43,14	44,30	0,459	0,266	0,273	-71,2	-9,3	71,8	352
34	708	75,16	42,36	58,08	0,428	0,241	0,330	-65,9	-30,3	72,1	335
35	716M	74,43	41,31	63,78	0,414	0,230	0,353	-62,1	-36,7	72,1	330
36	726	72,17	39,11	68,41	0,401	0,217	0,380	-62,1	-36,7	72,1	329
37	737	66,83	34,86	71,99	0,384	0,200	0,414	-55,9	-43,7	71,0	321
38	750	52,92	25,78	74,65	0,345	0,168	0,486	-39,2	-53,7	66,5	306
39	820	13,14	6,61	74,65	0,139	0,070	0,790	-17,5	-69,2	71,4	255
U=D50 96,74 100,00 81,03 0,348 0,360 0,360 0,0 0,0 0,0 0,0											
$a^*_{Pm} = n_a P_m = 2,8[(1,000x - 0,171 + 0,000z)/y]$ $A_m = (a - a_0) Y$ $C_{ABm} = [A_m^2 + B_m^2]^{1/2}$ $b^*_{Pm} = n_b P_m = -1,0[(0,000x + 0,000 + 1,000z)/y]$ $B_m = (b - b_0) Y$ $h_{ABm} = \text{atan2}(B_m/A_m)$											



CIEF10 tristimulus values, chromatic values, and putities ($n_s=2,8, n_b=-1,0$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by hue angle.											
no. O		tristimulus values and chromaticities						nu-chromatic values			
		X	Y	Z	x	y	z	A _m	B _m	C _{abm}	h _{abm}
00	388	67,67	43,61	0,91	0,603	0,388	0,008	75,6	34,4	83,1	304
01	689	71,10	43,27	21,71	0,522	0,317	0,159	-74,2	13,3	75,4	370
02	69	75,16	42,36	58,08	0,428	0,241	0,330	69,7	-23,7	72,0	330
03	708	75,16	42,36	63,78	0,414	0,230	0,355	65,5	-30,3	72,1	340
05	726M	72,17	39,11	68,41	0,401	0,217	0,380	62,1	-36,7	72,1	329
07	737	66,83	36,86	71,99	0,384	0,200	0,414	55,9	-43,7	71,0	321
08	742	65,92	35,75	73,02	0,375	0,195	0,426	54,8	-44,8	70,9	319
08	455	13,34	6,61	74,65	0,139	0,070	0,790	-71,5	-69,2	71,4	255
09	460	13,28	6,49	77,94	0,131	0,094	0,773	-24,1	-70,2	74,2	251
10	462	13,34	13,32	78,97	0,128	0,109	0,762	-27,9	-69,7	75,1	248
11	464	13,34	13,45	79,69	0,125	0,126	0,748	-32,1	-68,7	75,9	244
12	466	13,34	13,58	80,41	0,122	0,146	0,735	-36,3	-67,7	76,7	240
13	471	14,73	25,21	80,80	0,121	0,208	0,669	-51,3	-60,3	79,2	229
14	472	15,63	28,96	80,89	0,124	0,230	0,644	-56,2	-57,4	80,3	225
15	475	18,33	37,06	80,98	0,134	0,271	0,593	-65,0	-50,9	82,6	218
16	477	22,39	45,07	81,01	0,150	0,306	0,543	-71,6	-43,9	84,1	211
17	479	25,10	50,19	81,03	0,164	0,334	0,498	-76,0	-37,0	84,8	206
18	479C	30,58	58,60	78,68	0,182	0,349	0,463	-75,5	-31,2	81,7	202
19	479	29,07	56,38	80,12	0,175	0,340	0,483	-75,5	-34,4	83,0	204
20	484	25,63	56,72	59,32	0,180	0,400	0,448	-74,2	-13,3	75,4	192
21	492	23,27	56,85	36,73	0,192	0,490	0,316	-73,3	9,3	71,8	172
22	503	21,51	57,63	23,55	0,211	0,564	0,228	-70,7	23,3	71,8	160
23	511G	22,30	56,88	17,25	0,227	0,597	0,175	-65,4	30,2	72,1	155
24	521	24,56	60,68	12,62	0,250	0,620	0,128	-62,0	36,6	72,1	149
25	532	29,89	65,12	9,04	0,287	0,625	0,080	-55,9	43,7	69,5	146
26	545	43,62	74,21	6,37	0,422	0,552	0,051	-39,9	53,7	60,6	121
27	561	57,63	83,59	4,37	0,547	0,509	0,017	-25,1	60,2	54,7	104
28	564	83,45	90,50	3,08	0,471	0,511	0,017	-24,1	70,2	74,2	71
29	565	83,43	88,67	2,60	0,479	0,509	0,011	27,9	69,7	75,1	68
30	566	83,39	86,54	1,34	0,486	0,505	0,007	32,2	68,7	75,9	65
31	568	83,04	81,62	0,56	0,403	0,516	0,000	41,4	63,3	77,3	57
32	571	74,12	74,12	0,05	0,352	0,476	0,001	51,3	57,3	78,3	49
33	573	81,10	72,93	0,14	0,532	0,466	0,000	56,2	57,3	80,3	45
34	577	78,10	61,03	0,05	0,554	0,445	0,000	65,0	50,9	82,6	38
35	581	74,33	54,29	0,02	0,577	0,421	0,001	71,7	43,9	84,1	31
36	587	79,79	49,01	0,01	0,591	0,400	0,000	73,0	40,4	84,2	28
37	593	86,35	41,39	0,00	0,602	0,376	0,001	75,5	38,1	84,7	25
38	588	67,67	43,61	0,91	0,603	0,388	0,008	75,6	34,4	83,1	24
39	689	71,10	43,27	21,71	0,522	0,317	0,159	-74,2	13,3	75,4	20
D=U50 96,74(0,0000) 81,03 0,38 0,360 0,360 0,00 0,00 0,00 0,00 0,00 0,00											
$d^*_{p=1} = p^*_{p=1} - p^*_a(1,000,0+1,001+0,000z)_{p=1}$ $a^*_{p=1} = (a^*_{p=1})_{p=1}$ $C^*_{Abm} = A^*_{Abm} B^*_{Abm} / B^*_{Abm} [12]$											
$b^*_{p=1} = p^*_{p=1} - p^*_b(1,000,0+1,000z)_{p=1}$ $B^*_{p=1} = (b^*_{p=1})_{p=1}$ $h^*_{Abm} = d^*_{Abm} / B^*_{Abm}$ $d^*_{Abm} = 2720 - 7N$											

see similar files: <http://farbe.li.tu-berlin.de/DE72/DE72L0NP.PDF> /[.PS](http://farbe.li.tu-berlin.de/DE72/DE72L0NP.PDF)
technical information: <http://farbe.li.tu-berlin.de/DE72/DE72L0NP.PDF> /[.PS](http://farbe.li.tu-berlin.de/DE72/DE72L0NP.PDF)

TUB registration: 20180801-DE72/DE72L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

R17M tristimulus values, chromatic values, and putities ($n=2.8, n_c=1.0$). Normalized Oswald (O) tristimulus values ($Y_w=100$), ordered by wavelength.												
no.	O	C	tristimulus values and chromaticities			n-chromatic values			n-putities			
λ_n	X	Y	Z	x	y	z	A_{nm}	B_{nm}	P_{nm}	P_{nm}	P_{nm}	h_{nm}
00 373	50.84	23.58	64.46	0.366	0.169	0.464	44.8	-45.4	63.7	31.4		
01 450	26.22	10.37	70.14	0.245	0.097	0.657	8.6	-61.7	62.3	277		
02 463	19.81	9.03	72.37	0.195	0.089	0.715	-4.8	-65.0	65.2	265		
03 465	19.87	11.18	74.25	0.188	0.106	0.705	-9.4	-65.2	65.9	261		
04 470B	20.04	16.46	77.00	0.176	0.145	0.678	-19.9	-63.6	66.7	252		
05 474	20.76	23.15	78.71	0.169	0.188	0.641	-31.0	-60.0	67.5	242		
06 477	22.69	31.32	79.75	0.169	0.234	0.596	-41.7	-54.4	68.6	232		
07 479	24.27	35.77	80.07	0.173	0.255	0.571	-46.2	-51.1	68.9	227		
08 481	28.86	45.22	80.48	0.186	0.292	0.520	-52.7	-43.9	68.6	219		
09 482	30.21	48.30	79.14	0.191	0.306	0.501	-54.4	-40.1	67.6	216		
10 487C	28.13	48.90	65.44	0.186	0.348	0.465	-58.4	-25.9	63.9	203		
11 496	20.48	50.06	44.06	0.178	0.436	0.384	-63.4	-3.6	63.5	183		
12 500	20.60	52.31	38.55	0.184	0.469	0.345	-64.5	-3.7	64.6	176		
13 509	19.40	53.50	28.42	0.191	0.528	0.280	-64.6	14.8	66.2	167		
14 511	21.83	56.54	28.46	0.204	0.529	0.266	-64.4	17.2	66.7	165		
15 518	24.65	60.36	24.01	0.226	0.553	0.220	-62.6	24.7	67.3	158		
16 530G	29.99	65.40	16.35	0.268	0.585	0.146	-55.6	36.5	66.5	146		
17 538	43.18	76.41	16.37	0.317	0.562	0.120	-44.7	45.3	63.7	134		
18 553	67.80	89.62	10.69	0.403	0.533	0.063	-8.6	61.7	62.3	97		
19 557	74.22	90.96	8.45	0.427	0.523	0.048	-4.9	65.0	65.2	85		
20 558	74.15	88.81	6.58	0.437	0.523	0.038	9.5	65.1	65.8	81		
21 561	73.98	83.52	3.84	0.458	0.517	0.023	19.9	63.6	66.7	72		
22 565	73.26	76.83	2.11	0.481	0.504	0.013	31.1	59.9	67.5	62		
23 570Y	71.33	68.67	1.09	0.505	0.486	0.007	41.7	54.4	68.5	52		
24 572	69.75	64.22	0.76	0.517	0.476	0.005	46.2	51.1	68.9	47		
25 578B	65.16	54.77	0.35	0.541	0.455	0.002	52.7	43.9	68.6	39		
26 581	63.81	51.69	1.69	0.544	0.441	0.014	54.5	40.0	67.6	36		
27 600	67.89	51.09	15.38	0.505	0.380	0.114	58.5	25.9	63.9	23		
28 705	73.42	47.68	42.28	0.449	0.291	0.258	64.5	-3.7	64.6	356		
29 716	74.62	46.49	52.41	0.430	0.267	0.302	64.6	-14.8	66.3	347		
30 716	72.19	43.45	52.37	0.429	0.258	0.311	64.4	-17.2	66.7	345		
31 723	69.37	39.63	56.82	0.418	0.238	0.342	62.6	-24.7	67.3	338		
32 735	64.03	34.59	64.49	0.392	0.212	0.395	55.6	-36.5	66.5	326		
33 743	50.84	23.58	64.46	0.366	0.169	0.464	44.8	-45.4	63.7	314		
34 815	26.22	10.37	70.14	0.245	0.097	0.657	8.6	-61.7	62.3	277		
U=D50	94.03	100.00	80.83	0.342	0.363	0.363	0.0	0.0	0.0	0		

$a^*_{nm} = n_a P_{nm} = 2.8[(1.000x - 0.171 + 0.000z)/y]$ $A_{nm} = (a^*_{nm})/Y$ $C_{ABnm} = [A^2_{nm} + B^2_{nm}]^{1/2}$
 $b^*_{nm} = n_b P_{nm} = -1.0[(0.000x + 0.000 + 1.000z)/y]$ $B_{nm} = (b^*_{nm})/Y$ $h_{ABnm} = \text{atan2}[B_{nm}/A_{nm}]$

DE720-3N

R17M tristimulus values, chromatic values, and putities ($n=2.8, n_c=1.0$). Normalized Oswald (O) tristimulus values ($Y_w=100$), ordered by hue angle.												
no.	O	C	tristimulus values and chromaticities			n-chromatic values			n-putities			
λ_n	X	Y	Z	x	y	z	A_{nm}	B_{nm}	P_{nm}	P_{nm}	P_{nm}	h_{nm}
00 600	67.89	51.09	15.38	0.505	0.380	0.114	58.5	25.9	63.9	383		
01 705	73.42	47.68	42.28	0.449	0.291	0.258	64.5	-3.7	64.6	356		
02 714	74.62	46.49	52.41	0.430	0.267	0.302	64.6	-14.8	66.3	347		
03 716	72.19	43.45	52.37	0.429	0.258	0.311	64.4	-17.2	66.7	345		
04 723	69.37	39.63	56.82	0.418	0.238	0.342	62.6	-24.7	67.3	338		
05 735B	64.03	34.59	64.49	0.392	0.212	0.395	55.6	-36.5	66.5	326		
06 373	50.84	23.58	64.46	0.366	0.169	0.464	44.8	-45.4	63.7	314		
07 450	26.22	10.37	70.14	0.245	0.097	0.657	8.6	-61.7	62.3	277		
08 463	19.81	9.03	72.37	0.195	0.089	0.715	-4.8	-65.0	65.2	265		
09 465	19.87	11.18	74.25	0.188	0.106	0.705	-9.4	-65.2	65.9	261		
10 470	20.04	16.46	77.00	0.176	0.145	0.678	-19.9	-63.6	66.7	252		
11 474	20.76	23.15	78.71	0.169	0.188	0.641	-31.0	-60.0	67.5	242		
12 477B	22.69	31.32	79.75	0.169	0.234	0.596	-41.7	-54.4	68.6	232		
13 479	24.27	35.77	80.07	0.173	0.255	0.571	-46.2	-51.1	68.9	227		
14 481	28.86	45.22	80.48	0.186	0.292	0.520	-52.7	-43.9	68.6	219		
15 482	30.21	48.30	79.14	0.191	0.306	0.501	-54.4	-40.1	67.6	216		
16 487	28.13	48.90	65.44	0.186	0.348	0.465	-58.4	-25.9	63.9	203		
17 496	20.48	50.06	44.06	0.178	0.436	0.384	-63.4	-3.6	63.5	183		
18 500	20.60	52.31	38.55	0.184	0.469	0.345	-64.5	-3.7	64.6	176		
19 509	19.40	53.50	28.42	0.191	0.528	0.280	-64.6	14.8	66.2	167		
20 511	21.83	56.54	28.46	0.204	0.529	0.266	-64.4	17.2	66.7	165		
21 518	24.65	60.36	24.01	0.226	0.553	0.220	-62.6	24.7	67.3	158		
22 530	29.99	65.40	16.35	0.268	0.585	0.146	-55.6	36.5	66.5	146		
23 538G	43.18	76.41	16.37	0.317	0.562	0.120	-44.7	45.3	63.7	134		
24 553	67.80	89.62	10.69	0.403	0.533	0.063	-8.6	61.7	62.3	97		
25 557	74.22	90.96	8.45	0.427	0.523	0.048	-4.9	65.0	65.2	85		
26 558	74.15	88.81	6.58	0.437	0.523	0.038	9.5	65.1	65.8	81		
27 561	73.98	83.52	3.84	0.458	0.517	0.023	19.9	63.6	66.7	72		
28 565	73.26	76.83	2.11	0.481	0.504	0.013	31.1	59.9	67.5	62		
29 570Y	71.33	68.67	1.09	0.505	0.486	0.007	41.7	54.4	68.5	52		
30 572	69.75	64.22	0.76	0.517	0.476	0.005	46.2	51.1	68.9	47		
31 578B	65.16	54.77	0.35	0.541	0.455	0.002	52.7	43.9	68.6	39		
32 581Y	63.81	51.69	1.69	0.544	0.441	0.014	54.5	40.0	67.6	36		
33 600	67.89	51.09	15.38	0.505	0.380	0.114	58.5	25.9	63.9	23		
34 705	73.42	47.68	42.28	0.449	0.291	0.258	64.5	-3.7	64.6	-3		
U=D50	94.03	100.00	80.83	0.342	0.363	0.363	0.0	0.0	0.0	0		

$a^*_{nm} = n_a P_{nm} = 2.8[(1.000x - 0.171 + 0.000z)/y]$ $A_{nm} = (a^*_{nm})/Y$ $C_{ABnm} = [A^2_{nm} + B^2_{nm}]^{1/2}$
 $b^*_{nm} = n_b P_{nm} = -1.0[(0.000x + 0.000 + 1.000z)/y]$ $B_{nm} = (b^*_{nm})/Y$ $h_{ABnm} = \text{atan2}[B_{nm}/A_{nm}]$

DE720-7N

R17M tristimulus values, chromatic values, and putities ($n=2.8, n_c=1.0$). Normalized Oswald (O) tristimulus values ($Y_w=100$), ordered by wavelength.												
no.	O	C	tristimulus values and chromaticities			n-chromatic values			n-putities			
λ_n	X	Y	Z	x	y	z	A_{nm}	B_{nm}	P_{nm}	P_{nm}	P_{nm}	h_{nm}
00	373	23.58	3.21	-2.73	4.22	319	1.90	-1.92	2.70	314		
01	450	10.37	2.15	-6.76	7.09	287	0.83	-5.95	6.01	277		
02	463	9.03	0.77	-8.01	8.05	275	-0.54	-7.20	7.22	265		
03	465	11.18	0.46	-6.64	6.65	274	-0.84	-5.83	5.89	261		
04	470B	16.46	0.10	-4.67	4.67	271	-1.10	-3.86	4.05	252		
05	474	23.15	-0.02	-3.40	3.40	269	-1.34	-2.59	2.91	242		
06	477	31.32	-0.01	-2.54	2.54	269	-1.33	-1.73	2.19	232		
07	479	35.77	0.02	-2.23	2.23	270	-1.29	-1.43	1.92	227		
08	481	45.22	0.15	-1.77	1.78	274	-1.16	-0.97	1.51	219		
09	482	48.30	0.18	-1.63	1.64	276	-1.12	-0.83	1.40	216		
10	487C	48.90	0.12	-1.33	1.34	275	-1.19	-0.53	1.30	203		
11	496	50.06	0.04	-0.88	0.88	273	-1.26	-0.07	1.26	183		
12	500	52.31	0.08	-0.73	0.74	276	-1.23	0.07	1.23	176		
13	509	53.50	0.10	-0.53	0.54	281	-1.20	0.27	1.23	167		
14	511	56.54	0.17	-0.50	0.53	280	-1.13	0.30	1.18	165		
15	518	60.36	0.27	-0.39	0.48	305	-1.03	0.41	1.11	158		
16	530	65.00	0.46	-0.15	0.52	331	-0.83	0.55	1.01	146		
17	538	76.41	0.73	-0.21	0.76	343	-0.58	0.59	0.83	134		
18	553	89.62	1.22	-0.11	1.22	354	-0.09	0.68	0.69	97		
19	557	90.96	1.37	-0.09	1.37	356	0.05	0.71	0.71	85		
20	558	88.81	1.42	-0.07	1.42	357	0.10	0.73	0.74	81		
21	561	83.52	1.55	-0.04	1.55	358	0.23	0.76	0.79	72		
22	565	76.83	1.72	-0.02	1.72	359	0.40	0.78	0.87	62		
23	570Y	68.67	1.92	-0.01	1.92	359	0.60	0.79	0.99	52		
24	572	64.22	2.03	-0.01	2.03	359	0.72	0.79	1.07	47		
25	578	54.77	2.27	-0.00	2.27	359	0.96	0.80	1.25	39		
26	581	51.06	2.37	0.00	2.37	359	1.00	0.80	1.30	36		
27	600	51.09	2.49	0.01	2.47	353	1.14	0.50	1.25	23		
28	705	47.68	2.67	0.08	2.81	341	1.35	-0.07	1.35	356		
29	714R	46.49	2.70	-1.12	2.93	337	1.39	-0.31	1.42	347		
30	716	44.35	2.80	-1.20	3.04	336	1.48	-0.39	1.53	345		
31	723	39.63	2.89	-1.43	3.23	333	1.58	-0.62	1.70	338		
32	733	34.59	2.92	-1.86	3.46	327	1.68	-1.05	1.92	326		
33	743	23.58	3.21	-2.73	4.22	319	1.90	-1.92	2.70	314		
34	815	10.37	2.15	-6.76	7.09	287	0.83	-5.95	6.01	277		
U=0.500 1.316 -0.808 1.544 328 0.0 0.0 0.0 0.0												

$a_{P_{nm}} = a_{P_{nm}} - 2.8(1.0000+1.0001+1.0002)y$
 $A_{nm} = (a-b)y$
 $C_{ABn} = A_{nm}B_{nm}^{1/2}$
 $a_{B_{nm}} = a_{B_{nm}} - 1.01(0.0000+0.0001+0.0002)y$
 $B_{nm} = (a-b)y$
 $h_{ABn} = A_{nm}B_{nm}$

see similar files: <http://farbe.li.tu-berlin.de/DE72/DE72L0NP.PDF> / .PS
technical information: <http://farbe.li.tu-berlin.de> or <http://130.149.60.45/~farbmatrik>

TUB registration: 20180801-DE72/DE72L0NP.PDF /.PS
application for measurement of offset print output

TUB material: code=rha4ta

R17Ms tristimulus values, chromatic values, and putities ($n_s=2.8, n_b=-1.0$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.											
no.	O	tristimulus values and chromaticities			nu-chromatic values			nu-putities			
		X	Y	Z	x	y	z	p_m	p_n	h_{ab}	
00 375	52.09	25.14	67.62	0.359	0.173	0.466	43.5	-47.2	64.2	312	
01 444	27.16	9.33	67.62	0.260	0.089	0.649	13.9	-60.0	61.6	283	
02 463	21.19	9.55	72.48	0.205	0.092	0.702	-2.6	-64.7	64.8	267	
03 465	22.27	11.71	74.36	0.198	0.109	0.692	-7.1	-64.8	65.2	263	
04 470	21.43	17.01	77.11	0.185	0.147	0.667	-17.6	-63.3	65.7	254	
05 474	21.09	23.68	78.83	0.177	0.190	0.632	-28.8	-59.6	60.2	244	
06 476	22.83	27.59	79.42	0.175	0.212	0.611	-34.3	-57.0	66.6	238	
07 479	25.44	36.25	80.19	0.179	0.255	0.565	-44.1	-50.8	67.3	229	
08 480	27.41	40.88	80.43	0.184	0.274	0.540	-48.0	-47.3	67.4	224	
09 481	29.88	45.66	80.60	0.191	0.292	0.516	-50.9	-43.6	67.0	220	
10 482C	31.14	48.71	79.26	0.195	0.306	0.498	-52.8	-39.8	66.1	217	
11 488	25.13	49.09	60.78	0.186	0.363	0.450	-58.5	-21.0	62.2	199	
12 496	20.67	50.20	44.12	0.179	0.436	0.383	-62.9	-3.4	63.0	183	
13 500	20.63	52.39	38.61	0.184	0.469	0.345	-64.3	3.7	64.4	176	
14 505	20.59	54.04	33.36	0.190	0.500	0.308	-64.0	10.1	65.6	170	
15 515	20.37	55.82	24.00	0.203	0.557	0.239	-64.0	21.1	67.4	161	
16 522G	23.24	59.39	19.95	0.226	0.578	0.194	-61.8	28.1	67.9	155	
17 530	29.26	65.19	16.37	0.264	0.588	0.147	-56.5	36.3	67.2	147	
18 540	41.69	74.85	13.32	0.321	0.576	0.102	-43.5	47.2	64.2	132	
19 542	66.62	90.66	13.33	0.390	0.531	0.078	-13.9	60.0	61.6	103	
20 557	72.58	90.44	8.47	0.423	0.527	0.049	-6.2	64.7	64.7	87	
21 558	72.51	88.28	6.59	0.433	0.527	0.039	-7.2	64.8	65.2	83	
22 561	72.35	82.98	3.84	0.454	0.521	0.024	17.6	63.3	65.7	74	
23 565Y	71.69	76.31	2.11	0.477	0.508	0.014	28.8	59.6	66.2	64	
24 567	70.94	72.40	1.53	0.489	0.499	0.010	34.4	57.0	66.6	58	
25 572	68.33	63.74	0.76	0.514	0.479	0.005	44.2	50.8	67.3	48	
26 575	66.36	59.11	0.52	0.526	0.469	0.004	48.0	47.3	67.4	44	
27 578	63.90	54.33	0.35	0.538	0.458	0.002	50.9	43.6	67.0	40	
28 581	62.64	51.28	1.69	0.541	0.443	0.014	52.8	39.8	66.1	36	
29 585	60.65	50.90	2.46	0.549	0.436	0.019	54.6	36.3	65.7	33	
30 701	73.15	49.79	36.82	0.457	0.311	0.230	63.0	3.4	63.1	3	
31 705	73.15	47.60	42.34	0.448	0.291	0.259	64.3	-3.8	64.4	356	
32 710	73.19	45.95	47.59	0.438	0.275	0.285	64.9	-10.4	65.7	350	
33 720	73.40	44.17	56.94	0.420	0.253	0.326	64.0	-21.1	67.5	341	
34 727	70.53	40.59	61.00	0.409	0.235	0.364	56.6	-36.4	67.3	327	
35 735M	64.51	34.79	64.58	0.393	0.212	0.394	43.5	-47.2	64.2	312	
36 745	52.09	25.14	67.62	0.359	0.173	0.466	43.5	-47.2	64.2	312	
37 809	27.16	9.33	67.62	0.260	0.089	0.649	13.9	-60.0	61.6	283	
U=D50	93.78	100.00	80.94	0.341	0.363	0.363	0.0	0.0	0.0	0	

$$\begin{aligned} a^*_{p,m} &= n_s p_m = 2.8[(1.000x - 0.171 + 0.000z)/y] & A_m &= (a^* - a^*)_Y & C_{AB,m} &= [A^2 + B^2]^{1/2} \\ b^*_{p,m} &= n_b p_n = -1.0[(0.000x + 0.000 + 1.000z)/y] & B_m &= (b^* - b^*)_Y & h_{AB,m} &= \arctan[B_m/A_m] \end{aligned}$$

DE720-3N

R17Ms tristimulus values, chromatic values, and putities ($n_s=2.8, n_b=-1.0$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by wavelength.											
no.	O	tristimulus values and chromaticities			nu-chromatic values			nu-putities			
		X	Y	Z	x	y	z	p_m	p_n	h_{ab}	
00 375	52.09	25.14	67.62	0.359	0.173	0.466	43.5	-47.2	64.2	312	
01 444	27.16	9.33	67.62	0.260	0.089	0.649	13.9	-60.0	61.6	283	
02 463	21.19	9.55	72.48	0.205	0.092	0.702	-2.6	-64.7	64.8	267	
03 465	22.27	11.71	74.36	0.198	0.109	0.692	-7.1	-64.8	65.2	263	
04 470	21.43	17.01	77.11	0.185	0.147	0.667	-17.6	-63.3	65.7	254	
05 474	21.09	23.68	78.83	0.177	0.190	0.632	-28.8	-59.6	60.2	244	
06 476	22.83	27.59	79.42	0.175	0.212	0.611	-34.3	-57.0	66.6	238	
07 479	25.44	36.25	80.19	0.179	0.255	0.565	-44.1	-50.8	67.3	229	
08 480	27.41	40.88	80.43	0.184	0.274	0.540	-48.0	-47.3	67.4	224	
09 481	29.88	45.66	80.60	0.191	0.292	0.516	-50.9	-43.6	67.0	220	
10 482C	31.14	48.71	79.26	0.195	0.306	0.498	-52.8	-39.8	66.1	217	
11 488	25.13	49.09	60.78	0.186	0.363	0.450	-58.5	-21.0	62.2	199	
12 496	20.67	50.20	44.12	0.179	0.436	0.383	-62.9	-3.4	63.0	183	
13 500	20.63	52.39	38.61	0.184	0.469	0.345	-64.3	3.7	64.4	176	
14 505	20.59	54.04	33.36	0.190	0.500	0.308	-64.0	10.1	65.6	170	
15 515	20.37	55.82	24.00	0.203	0.557	0.239	-64.0	21.1	67.4	161	
16 522G	23.24	59.39	19.95	0.226	0.578	0.194	-61.8	28.1	67.9	155	
17 530	29.26	65.19	16.37	0.264	0.588	0.147	-56.5	36.3	67.2	147	
18 540	41.69	74.85	13.32	0.321	0.576	0.102	-43.5	47.2	64.2	132	
19 542	66.62	90.66	13.33	0.390	0.531	0.078	-13.9	60.0	61.6	103	
20 557	72.58	90.44	8.47	0.423	0.527	0.049	-6.2	64.7	64.7	87	
21 558	72.51	88.28	6.59	0.433	0.527	0.039	-7.2	64.8	65.2	83	
22 561	72.35	82.98	3.84	0.454	0.521	0.024	17.6	63.3	65.7	74	
23 565Y	71.69	76.31	2.11	0.477	0.508	0.014	28.8	59.6	66.2	64	
24 567	70.94	72.40	1.53	0.489	0.499	0.010	34.4	57.0	66.6	58	
25 572	68.33	63.74	0.76	0.514	0.479	0.005	44.2	50.8	67.3	48	
26 575	66.36	59.11	0.52	0.526	0.469	0.004	48.0	47.3	67.4	44	
27 578	63.90	54.33	0.35	0.538	0.458	0.002	50.9	43.6	67.0	40	
28 581	62.64	51.28	1.69	0.541	0.443	0.014	52.8	39.8	66.1	36	
29 585	60.65	50.90	2.46	0.549	0.436	0.019	54.6	36.3	65.7	33	
30 701	73.15	49.79	36.82	0.457	0.311	0.230	63.0	3.4	63.1	3	
31 705	73.15	47.60	42.34	0.448	0.291	0.259	64.3	-3.8	64.4	356	
32 710	73.19	45.95	47.59	0.438	0.275	0.285	64.9	-10.4	65.7	350	
33 720	73.40	44.17	56.94	0.420	0.253	0.326	64.0	-21.1	67.5	341	
34 727	70.53	40.59	61.00	0.409	0.235	0.364	56.6	-36.4	67.3	327	
35 735M	64.51	34.79	64.58	0.393	0.212	0.394	43.5	-47.2	64.2	312	
36 745	52.09	25.14	67.62	0.359	0.173	0.466	43.5	-47.2	64.2	312	
37 809	27.16	9.33	67.62	0.260	0.089	0.649	13.9	-60.0	61.6	283	
U=D50	93.78	100.00	80.94	0.341	0.363	0.363	0.0	0.0	0.0	0	

$$\begin{aligned} a^*_{p,m} &= n_s p_m = 2.8[(1.000x - 0.171 + 0.000z)/y] & A_m &= (a^* - a^*)_Y & C_{AB,m} &= [A^2 + B^2]^{1/2} \\ b^*_{p,m} &= n_b p_n = -1.0[(0.000x + 0.000 + 1.000z)/y] & B_m &= (b^* - b^*)_Y & h_{AB,m} &= \arctan[B_m/A_m] \end{aligned}$$

DE720-4N

R17Ms tristimulus values, chromatic values, and putities ($n_s=2.8, n_b=-1.0$). Normalized Ostwald (O) tristimulus values ($Y_w=100$), ordered by hue angle.											
no.	O	tristimulus values and chromaticities			nu-chromatic values						
		X	Y	Z	x	y	z	p_m	p_n	C_{100}	h_{100}
00 614	68.65	50.90	20.17	0.491	0.364	0.144	58.6	21.0	62.2	379	
01 701	73.11	49.79	36.82	0.457	0.311	0.230	63.0	3.4	63.1	363	
02 705	73.15	47.60	42.34	0.448	0.291	0.259	64.3	-3.8	64.4	356	
03 710	73.19	45.95	47.59	0.438	0.275	0.285	64.9	-10.4	65.7	350	
04 720	73.40	44.17	56.94	0.420	0.253	0.326	64.0	-21.1	67.5	341	
05 727	70.53	40.59	61.00	0.409	0.235	0.364	56.6	-36.1	67.3	327	
06 735	64.51	34.79	64.58	0.393	0.212	0.394	56.6	-36.4	67.3	327	
07 375	52.09	25.14	67.62	0.359	0.173	0.466	43.5	-47.2	64.2	312	
08 444	27.16	9.33	67.62	0.260	0.089	0.649	13.9	-60.0	61.6	283	
09 463	21.19	9.55	72.48	0.205	0.092	0.702	-2.6	-64.7	64.8	267	
10 465	22.27	11.71	74.36	0.198	0.109	0.692	-7.1	-64.8	65.2	263	
11 470	21.43	17.01	77.11	0.185	0.147	0.667	-17.6	-63.3	65.7	254	
12 474B	22.09	23.68	78.83	0.177	0.190	0.632	-28	-59.6	66.2	244	
13 476	22.83	27.59	79.42	0.175	0.212	0.611	-34.3	-57.0	66.6	238	
14 480	24.44	36.25	82.19	0.173	0.253	0.565	-44.1	-54.1	67.0	229	
15 480	27.41	40.88	85.43	0.184	0.274	0.540	-48.0	-47.3	67.4	224	
16 481	29.88	45.66	80.60	0.191	0.292	0.516	-50.9	-43.6	67.0	220	
17 482	31.14	48.71	79.26	0.195	0.306	0.498	-52.8	-39.8	66.1	217	
18 488	31.13	49.09	60.78	0.186	0.363	0.450	-58.5	-21.0	62.2	199	
19 500	30.52	50.26	50.26	0.193	0.375	0.435	-59.3	-3.7	62.3	194	
20 500	20.63	52.39	38.61	0.184	0.469	0.345	-64.3	-3.7	64.8	176	
21 505	20.59	54.04	33.36	0.190	0.500	0.308	-64.8	10.3	65.6	170	
22 515	20.37	55.82	24.00	0.203	0.557	0.239	-64.0	21.1	67.4	161	
23 523	23.24	58.38	19.95	0.226	0.578	0.194	-61.8	28.1	67.9	155	
24 530	26.26	65.19	16.37	0.264	0.588	0.147	-55.5	36.3	67.2	147	
25 532	29.45	74.85	12.59	0.295	0.593	0.107	-48.0	47.3	67.4	137	
26 552	66.62	90.65	13.33	0.390	0.531	0.078	-13.9	60.0	61.6	103	
27 557	72.58	90.44	8.47	0.423	0.527	0.049	2.6	64.7	64.7	87	
28 558	72.51	88.28	6.59	0.433	0.527	0.039	7.2	64.8	65.2	83	
29 561	72.35	82.98	3.84	0.454	0.521	0.024	17.6	63.5	65.7	74	
30 567	70.94	70.36	1.53	0.489	0.499	0.010	34.4	57.0	66.6	58	
32 572B	68.33	63.74	0.76	0.514	0.479	0.005	44.2	50.8	67.3	48	
33 575	66.36	59.11	0.52	0.526	0.469	0.004	48.0	47.5	67.4	44	
34 578	66.90	54.33	0.35	0.538	0.458	0.002	50.9	43.6	67.0	40	
35 584	64.51	34.79	0.28	0.546	0.454	0.014	52.9	39.6	67.1	36	
36 618	68.65	50.90	20.17	0.491	0.364	0.144	58.6	21.0	62.2	379	
37 701	73.11	49.79	36.82	0.457	0.311	0.230	63.0	3.4	63.1	363	
U-D50	93.78	100.00	80.94	0.341	0.363	0.633	0.0	0.0	0.0		