

X	Y	Z	x	y	L*	a*	b*	a'	b'	OYLCVM_ONW_0
CIE Illuminant E										
61.49	35.75	0.03	0.632	0.367	66.3	70.3	113.7	0.2581	-0.0089	%O=JR 00 575_770
83.16	86.74	1.54	0.485	0.505	94.6	-6.6	140.9	0.2124	-0.0224	%Y=J=JG+JR 01 515_770
21.66	50.98	1.5	0.292	0.687	76.6	-99.1	110.4	0.1619	-0.0266	%L=JG 02 515_575
8.5	25.04	11.07	0.19	0.561	57.1	-95.3	30.0	0.1502	-0.0656	%Gs 03 0, 35*JG+0, 65*BG
1.41	11.08	16.22	0.049	0.385	39.7	-119.2	-13.0	0.1084	-0.0978	%Cs=BG 04 475_515
16.83	13.25	98.45	0.13	0.103	43.1	21.1	-96.9	0.2333	-0.1681	%V=B=BR+BG 05 380_515
15.41	2.17	82.23	0.154	0.021	16.3	128.5	-131.5	0.4139	-0.2892	%Ms=BR 06 380_475
55.04	31.05	11.54	0.563	0.318	62.5	71.1	38.0	0.2607	-0.0619	%Rs 07 0, 14*BR+0, 86*JR
61.49	35.75	0.03	0.632	0.367	66.3	70.3	113.7	0.2581	-0.0089	%O=JR 08 575_770
0.1	0.1	0.1	0.332	0.332	0.9	0.0	0.0	0.2154	-0.0861	%N0 (β=0, 001) 09 380_770
100.0	100.0	100.0	0.333	0.333	100.0	0.0	0.0	0.2154	-0.0861	%W1 (β=1, 000) 10 380_770

CIE Standard Illuminant D65										
54.81	32.31	0.03	0.628	0.37	63.6	73.0	109.1	0.2613	-0.0087	%O=JR 00 575_770
76.89	85.27	1.63	0.469	0.52	94.0	-8.2	140.2	0.2116	-0.0224	%Y=J=JG+JR 01 515_770
22.07	52.96	1.6	0.288	0.69	77.8	-97.1	112.7	0.1636	-0.0261	%L=JG 02 515_575
8.78	26.49	12.51	0.183	0.554	58.5	-95.0	31.2	0.1516	-0.0652	%Gs 03 0, 35*JG+0, 65*BG
1.61	12.23	18.38	0.05	0.379	41.5	-119.5	-11.2	0.1116	-0.0959	%Cs=BG 04 475_515
18.14	14.72	107.25	0.129	0.105	45.2	23.9	-93.3	0.2349	-0.1623	%V=B=BR+BG 05 380_515
16.52	2.48	88.86	0.153	0.023	17.8	133.2	-128.5	0.4121	-0.276	%Ms=BR 06 380_475
49.45	28.13	12.47	0.549	0.312	60.0	74.5	33.9	0.2644	-0.0638	%Rs 07 0, 14*BR+0, 86*JR
54.81	32.31	0.03	0.628	0.37	63.6	73.0	109.1	0.2613	-0.0087	%O=JR 08 575_770
0.09	0.1	0.1	0.311	0.327	0.9	0.0	0.0	0.2154	-0.0861	%N0 (β=0, 001) 09 380_770
95.04	100.0	108.89	0.312	0.329	100.0	0.0	0.0	0.2154	-0.0861	%W1 (β=1, 000) 10 380_770

CIE Illuminant A										
83.51	46.75	0.04	0.64	0.358	74.0	68.2	125.5	0.2533	-0.0122	%O=JR 00 575_770
104.38	92.56	1.2	0.526	0.467	97.0	4.2	130.1	0.2173	-0.0286	%Y=J=JG+JR 01 515_770
20.87	45.8	1.15	0.307	0.675	73.4	-97.9	90.3	0.1606	-0.0356	%L=JG 02 515_575
7.77	20.34	5.93	0.228	0.597	52.2	-87.2	7.5	0.1515	-0.0806	%Gs 03 0, 35*JG+0, 65*BG
0.71	6.63	8.5	0.045	0.418	30.9	-108.0	-43.1	0.0993	-0.1321	%Cs=BG 04 475_515
5.45	7.43	34.37	0.115	0.157	32.7	-26.3	-113.6	0.1883	-0.2026	%V=B=BR+BG 05 380_515
4.74	0.8	25.87	0.151	0.025	7.2	75.2	-139.7	0.3775	-0.387	%Ms=BR 06 380_475
72.48	40.32	3.66	0.622	0.346	69.7	65.9	54.0	0.2538	-0.0546	%Rs 07 0, 14*BR+0, 86*JR
83.51	46.75	0.04	0.64	0.358	74.0	68.2	125.5	0.2533	-0.0122	%O=JR 08 575_770
0.1	0.09	0.03	0.445	0.405	0.9	0.0	0.0	0.2154	-0.0861	%N0 (β=0, 001) 09 380_770
109.84	99.99	35.58	0.447	0.407	99.9	0.0	0.0	0.2154	-0.0861	%W1 (β=1, 000) 10 380_770

$$\begin{aligned}
 a^* &= 500 \left[(X/X_n)^{1/3} - (Y/Y_n)^{1/3} \right] & b^* &= 200 \left[(Y/Y_n)^{1/3} - (Z/Z_n)^{1/3} \right] & a' &= (1/X_n)^{1/3} (x/y)^{1/3} & b' &= -0.4 (1/Z_n)^{1/3} (z/y)^{1/3} & (X, Y, Z \geq 0.89) \\
 &= 500 (a' - a'_n) Y^{1/3} & &= 500 (b' - b'_n) Y^{1/3} & &= 0.2191 (x/y)^{1/3} & &= -0.08376 (z/y)^{1/3} & CIELAB for n=D65
 \end{aligned}$$