

X	Y	Z	x	y	L*	a*	b*	a'	b'	OYLCVM_ONW_0
CIE Illuminant E										
48.7	24.62	0.91	0.656	0.331	56.7	80.0	83.4	0.2704	-0.0287	%00 (r>0,009) 00 590 770
83.6	95.66	8.37	0.445	0.509	98.3	-21.6	109.5	0.2059	-0.0382	%Y0 (r>0,009) 01 490 770
35.75	71.91	8.35	0.308	0.619	87.9	-93.0	91.7	0.1706	-0.042	%L0 (r>0,009) 02 490 590
52.15	76.24	99.98	0.228	0.333	89.9	-54.3	-17.2	0.1898	-0.0943	%C0 (r>0,009) 03 380 590
17.29	5.22	92.5	0.15	0.045	27.3	91.6	-120.1	0.3211	-0.2246	%V0 (r>0,009) 04 380 490
65.1	28.94	92.52	0.348	0.155	60.7	102.6	-62.5	0.2822	-0.1269	%M0 (r>0,009) 05 380 490 .. 590-770
48.7	24.62	0.91	0.656	0.331	56.7	80.0	83.4	0.2704	-0.0287	%00 (r>0,009) 06 590 770
0.9	0.9	0.9	0.333	0.333	8.1	0.0	0.0	0.2154	-0.0861	%N0 (r=0,009) 07 380 770
100.0	100.0	100.0	0.333	0.333	100.0	0.0	0.0	0.2154	-0.0861	%W1 (r=1,000) 08 380 770
0.1	0.1	0.1	0.332	0.332	0.9	0.0	0.0	0.2154	-0.0861	%N0 (r=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 (r=1,000) 10 380 770

CIE Standard Illuminant D65										
42.77	21.83	0.99	0.651	0.332	53.8	82.0	78.6	0.2741	-0.0299	%00 (r>0,009) 00 590 770
77.37	95.05	9.14	0.426	0.523	98.0	-24.7	109.0	0.2045	-0.0383	%Y0 (r>0,009) 01 490 770
35.41	74.08	9.12	0.298	0.624	88.9	-92.6	93.4	0.1713	-0.0416	%L0 (r>0,009) 02 490 590
53.08	79.03	108.87	0.22	0.327	91.2	-50.5	-15.0	0.1918	-0.0932	%C0 (r>0,009) 03 380 590
18.52	5.83	100.7	0.148	0.046	29.0	95.9	-117.2	0.3219	-0.2164	%V0 (r>0,009) 04 380 490
60.44	26.77	100.72	0.321	0.142	58.7	107.7	-65.9	0.2874	-0.1302	%M0 (r>0,009) 05 380 490 .. 590-770
42.77	21.83	0.99	0.651	0.332	53.8	82.0	78.6	0.2741	-0.0299	%00 (r>0,009) 06 590 770
0.85	0.9	0.98	0.312	0.328	8.1	0.0	0.0	0.2154	-0.0861	%N0 (r=0,009) 07 380 770
95.04	100.0	108.89	0.312	0.329	100.0	0.0	0.0	0.2154	-0.0861	%W1 (r=1,000) 08 380 770
0.09	0.1	0.1	0.311	0.327	0.9	0.0	0.0	0.2154	-0.0861	%N0 (r=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 (r=1,000) 10 380 770

CIE Illuminant D50										
48.32	24.41	0.76	0.657	0.332	56.4	84.6	83.0	0.2738	-0.0289	%00 (r>0,009) 00 590 770
83.37	96.03	8.01	0.444	0.512	98.4	-16.9	105.3	0.208	-0.0401	%Y0 (r>0,009) 01 490 770
35.87	72.48	7.99	0.308	0.622	88.2	-89.5	87.7	0.1725	-0.044	%L0 (r>0,009) 02 490 590
48.92	76.45	82.47	0.235	0.367	90.0	-58.4	-17.0	0.1879	-0.0942	%C0 (r>0,009) 03 380 590
13.91	4.85	75.2	0.148	0.051	26.3	79.7	-120.9	0.3096	-0.2289	%V0 (r>0,009) 04 380 490
61.37	28.37	75.22	0.372	0.171	60.2	101.5	-62.5	0.282	-0.1271	%M0 (r>0,009) 05 380 490 .. 590-770
48.32	24.41	0.76	0.657	0.332	56.4	84.6	83.0	0.2738	-0.0289	%00 (r>0,009) 06 590 770
0.86	0.9	0.74	0.345	0.358	8.1	0.0	0.0	0.2154	-0.0861	%N0 (r=0,009) 07 380 770
96.42	100.0	82.49	0.345	0.358	100.0	0.0	0.0	0.2154	-0.0861	%W1 (r=1,000) 08 380 770
0.09	0.09	0.08	0.344	0.357	0.9	0.0	0.0	0.2154	-0.0861	%N0 (r=0,001) 09 380 770
96.42	100.0	82.49	0.345	0.358	100.0	0.0	0.0	0.2154	-0.0861	%W1 (r=1,000) 10 380 770

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