

X	Y	Z	x	y	A	B	Cr	a	b	c	L*	a*	b*	C*ab	a'	b'	c'	OYL_CVM_ONW_0	
CIE Illuminant E																			
61.4	35.7	0.0	0.632	0.367	25.7	14.2	29.4	0.71	0.39	0.82	66.3	70.3	113.7	133.7	0.258	-0.008	0.258	%O=JR	00 575_770
83.1	86.7	1.5	0.485	0.505	-3.5	34.0	34.2	-0.04	0.39	0.39	94.6	-6.6	140.9	141.1	0.212	-0.022	0.213	%Y=J=JG+JR	01 515_770
21.6	50.9	1.5	0.292	0.687	-29.3	19.7	35.3	-0.57	0.38	0.69	76.6	-99.1	110.4	148.3	0.161	-0.026	0.164	%L=JG	02 515_575
8.5	25.0	11.0	0.19	0.561	-16.5	5.5	17.4	-0.66	0.22	0.69	57.1	-95.3	30.0	99.9	0.15	-0.065	0.163	%Gs	03 0,35*JG+0,65*BG
1.4	11.0	16.2	0.049	0.385	-9.6	-2.0	9.8	-0.87	-0.18	0.89	39.7	-119.2	-13.0	119.9	0.108	-0.097	0.146	%Cs=BG	04 475_515
16.8	13.2	98.4	0.13	0.103	3.5	-34.0	34.2	0.26	-2.57	2.58	43.1	21.1	-96.9	99.2	0.233	-0.168	0.287	%V=B=BR+BG	05 380_515
15.4	2.1	82.2	0.154	0.021	13.2	-32.0	34.6	6.09	-14.73	15.94	16.3	128.5	-131.5	183.9	0.413	-0.289	0.505	%Ms=BR	06 380_475
55.0	31.0	11.5	0.563	0.318	23.9	7.8	25.2	0.77	0.25	0.81	62.5	71.1	38.0	80.7	0.26	-0.061	0.268	%Rs	07 0,14*BR+0,86*JR
61.4	35.7	0.0	0.632	0.367	25.7	14.2	29.4	0.71	0.39	0.82	66.3	70.3	113.7	133.7	0.258	-0.008	0.258	%O=JR	08 575_770
0.1	0.1	0.1	0.332	0.332	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.215	-0.086	0.232	%N0(β=0,001)	09 380_770
100.0	100.0	100.0	0.333	0.333	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.215	-0.086	0.232	%W1(β=1,000)	10 380_770
3BS 475,530,600																			
66.1	39.2	0.0	0.627	0.372	32.6	10.6	34.3	0.83	0.26	0.87	68.9	93.1	117.7	150.1	0.292	-0.01	0.292	%O=JR	00 575_770
76.4	92.9	2.6	0.444	0.54	-2.8	24.0	24.2	-0.03	0.25	0.26	97.2	-5.9	127.0	127.1	0.23	-0.03	0.231	%Y=J=JG+JR	01 515_770
10.3	53.6	2.6	0.154	0.805	-35.4	13.4	37.9	-0.66	0.25	0.7	78.2	-159.1	194.8	185.2	0.141	-0.035	0.146	%L=JG	02 515_575
6.4	21.0	22.0	0.13	0.425	-11.4	-3.1	11.9	-0.54	-0.14	0.56	53.0	-85.7	-18.6	87.7	0.165	-0.099	0.193	%Gs	03 0,35*JG+0,65*BG
4.4	3.5	32.4	0.109	0.086	1.4	-12.0	12.1	0.4	-3.43	3.45	21.9	22.8	-91.1	93.9	0.265	-0.206	0.336	%Cs=BG	04 475_515
8.8	7.0	64.8	0.109	0.086	2.8	-24.0	24.2	0.4	-3.43	3.45	31.8	28.7	-114.8	118.3	0.265	-0.206	0.336	%V=B=BR+BG	05 380_515
4.4	3.5	32.4	0.109	0.086	1.4	-12.0	12.1	0.4	-3.43	3.45	21.9	22.8	-91.1	93.9	0.265	-0.206	0.336	%Ms=BR	06 380_475
57.5	34.2	4.5	0.596	0.355	28.2	7.4	29.2	0.82	0.21	0.85	65.1	88.4	58.4	105.9	0.291	-0.05	0.296	%Rs	07 0,14*BR+0,86*JR
66.1	39.2	0.0	0.627	0.372	32.6	10.6	34.3	0.83	0.26	0.87	68.9	93.1	117.7	150.1	0.292	-0.01	0.292	%O=JR	08 575_770
0.0	0.1	0.0	0.336	0.393	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.232	-0.086	0.248	%N0(β=0,001)	09 380_770
85.3	100.0	67.5	0.337	0.395	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.232	-0.086	0.248	%W1(β=1,000)	10 380_770
3BW 450,530,620																			
55.4	24.7	0.0	0.691	0.308	33.4	13.9	36.2	1.35	0.56	1.46	56.8	113.1	97.8	149.6	0.251	-0.006	0.251	%O=JR	00 575_770
66.2	80.7	2.7	0.442	0.539	-5.6	44.3	44.7	-0.06	0.54	0.55	92.0	-12.5	132.3	132.9	0.179	-0.024	0.181	%Y=J=JG+JR	01 515_770
10.7	55.9	2.7	0.154	0.805	-39.1	30.4	49.5	-0.69	0.54	0.88	79.6	-164.9	111.0	198.8	0.11	-0.028	0.114	%L=JG	02 515_575
4.3	30.5	15.8	0.086	0.6	-22.7	10.8	25.2	-0.74	0.35	0.82	62.0	-153.3	338.0	158.0	0.1	-0.061	0.118	%Gs	03 0,35*JG+0,65*BG
0.9	16.7	22.9	0.023	0.412	-14.0	0.2	14.0	-0.83	0.01	0.83	48.0	-165.6	1.1	165.6	0.073	-0.085	0.112	%Cs=BG	04 475_515
22.7	19.2	138.0	0.126	0.106	5.6	-44.3	44.7	0.29	-2.3	2.32	50.9	28.6	-83.1	87.9	0.203	-0.148	0.251	%V=B=BR+BG	05 380_515
21.8	2.4	115.1	0.156	0.017	19.6	-44.6	48.7	7.95	-18.09	19.76	17.7	167.3	-128.7	211.1	0.397	-0.276	0.484	%Ms=BR	06 380_475
50.7	21.6	16.1	0.573	0.244	31.5	5.7	32.0	1.45	0.26	1.48	53.6	114.5	22.9	116.7	0.255	-0.069	0.264	%Rs	07 0,14*BR+0,86*JR
55.4	24.7	0.0	0.691	0.308	33.4	13.9	36.2	1.35	0.56	1.46	56.8	113.1	97.8	149.6	0.251	-0.006	0.251	%O=JR	08 575_770
0.0	0.1	0.1	0.269	0.302	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.184	-0.086	0.204	%N0(β=0,001)	09 380_770
89.0	100.0	140.7	0.269	0.303	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.184	-0.086	0.204	%W1(β=1,000)	10 380_770
4BW 450,495,530,620																			
51.7	23.0	0.0	0.691	0.308	30.5	17.9	35.4	1.32	0.77	1.53	55.1	106.6	94.9	142.8	0.226	-0.005	0.226	%O=JR	00 575_770
61.7	75.2	2.5	0.442	0.539	-7.1	57.4	57.8	-0.09	0.76	0.76	89.5	-16.3	134.6	135.6	0.161	-0.022	0.163	%Y=J=JG+JR	01 515_770
10.0	52.1	2.5	0.154	0.805	-37.7	39.5	54.6	-0.72	0.75	1.04	77.3	-163.3	113.8	199.1	0.099	-0.025	0.102	%L=JG	02 515_575
6.8	30.6	35.2	0.094	0.42	-21.1	9.7	23.3	-0.69	0.31	0.76	62.2	-126.1	121.5	127.9	0.104	-0.072	0.127	%Gs	03 0,35*JG+0,65*BG
5.1	19.0	52.9	0.067	0.246	-12.2	-6.3	13.8	-0.64	-0.33	0.72	50.7	-95.6	-14.5	96.7	0.111	-0.097	0.148	%Cs=BG	04 475_515
29.8	24.7	191.7	0.121	0.1	7.1	-57.4	57.8	0.28	-2.31	2.33	56.8	30.0	-73.5	79.4	0.183	-0.136	0.228	%V=B=BR+BG	05 380_515
24.6	5.7	138.7	0.145	0.033	19.4	-51.0	54.6	3.4	-8.94	9.57	28.6	130.3	-101.7	165.3	0.281	-0.2	0.345	%Ms=BR	06 380_475
47.9	20.6	19.4	0.544	0.234	29.0	8.2	30.1	1.4	0.4	1.46	52.5	107.4	25.3	110.4	0.228	-0.067	0.238	%Rs	07 0,14*BR+0,86*JR
51.7	23.0	0.0	0.691	0.308	30.5	17.9	35.4	1.32	0.77	1.53	55.1	106.6	94.9	142.8	0.226	-0.005	0.226	%O=JR	08 575_770
0.0	0.1	0.1	0.236	0.258	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.167	-0.086	0.188	%N0(β=0,001)	09 380_770
91.5	100.0	194.2	0.237	0.259	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.167	-0.086	0.188	%W1(β=1,000)	10 380_770
$A = [(X/X_n) - (Y/Y_n)]Y = [a - a_n]Y$$a^* = 500[(X/X_n)^{1/3} - (Y/Y_n)^{1/3}]$$= 500(a' - a'_n)Y^{1/3}$ $B = -0,4[(Z/Z_n) - (Y/Y_n)]Y = -0,4[b - b_n]Y$$b^* = 200[(Y/Y_n)^{1/3} - (Z/Z_n)^{1/3}]$$= 500(b' - b'_n)Y^{1/3}$ $a = X/Y = x/y$$a' = (1/X_n)^{1/3}(x/y)^{1/3}$$= 0,2191(x/y)^{1/3}$ $b = -0,4Z/Y = -0,4z/y$$b' = -0,4(1/Z_n)^{1/3}(z/y)^{1/3}$$= -0,08376(z/y)^{1/3}$ $(X, Y, Z \geq 0,89)$$CIE_{LAB} \text{ for } n=D65$																			