

Colorimetric "Standard data": LCD Luminous System LECD_08 for CIE lightness $L^*_N=08$ of black for illuminant D65

System LECD_08	Color	$r=olv*_1$	$g=olv*_2$	$b=olv*_3$	L^*	a^*	b^*	C^*_{ab}	h_{ab}	$X=XYZ_1$	$Y=XYZ_2$	$Z=XYZ_3$	x	y	$Y/88.59$
LECD system	O (R)	1.0	0.0	0.0	51.09	74.59	67.08	100.32	42	36.6	19.35	1.56	0.6364	0.3364	0.2184
	Y	1.0	1.0	0.0	92.83	-21.41	105.07	107.23	102	68.22	82.58	7.66	0.4305	0.5211	0.9324
D65 reflection:	L (G)	0.0	1.0	0.0	84.16	-82.26	92.05	123.46	132	32.45	64.37	7.14	0.3121	0.6192	0.7268
	C	0.0	1.0	1.0	87.06	-45.16	-13.98	47.29	197	48.32	70.13	95.85	0.2255	0.3273	0.7918
$Y_N = 0.89$	V (B)	0.0	0.0	1.0	31.58	75.05	-105.72	129.66	305	16.71	6.9	90.09	0.147	0.0607	0.0779
$L^*_N = 8.08$	M	1.0	0.0	1.0	57.42	93.9	-61.52	112.26	327	52.54	25.36	90.6	0.3118	0.1505	0.2863
	N	0.0	0.0	0.0	8.08	0.0	0.0	0.01	0	0.85	0.89	0.97	0.3127	0.329	0.0101
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18	88.57	96.43	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	8.08	0.0	0.0	0.01	0	0.85	0.89	0.97	0.3127	0.329	0.0101
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18	88.57	96.43	0.3127	0.329	1.0

Colorimetric "Adapted data (a)": LCD Luminous System LECD_08a for CIE lightness $L^*_N=08$ of black for illuminant D65

System LECD_08a	Color	$r=olv*_1$	$g=olv*_2$	$b=olv*_3$	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ_{1a}$	$Y_a=XYZ_{2a}$	$Z_a=XYZ_{3a}$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	51.09	74.59	67.08	100.32	42	36.6	19.35	1.56	0.6364	0.3364	0.2184
	Y	1.0	1.0	0.0	92.83	-21.41	105.07	107.23	102	68.22	82.58	7.66	0.4305	0.5211	0.9324
D65 reflection:	L (G)	0.0	1.0	0.0	84.16	-82.26	92.05	123.46	132	32.45	64.37	7.14	0.3121	0.6192	0.7268
	C	0.0	1.0	1.0	87.06	-45.16	-13.98	47.29	197	48.32	70.13	95.85	0.2255	0.3273	0.7918
$Y_N = 0.89$	V (B)	0.0	0.0	1.0	31.58	75.05	-105.72	129.66	305	16.71	6.9	90.09	0.147	0.0607	0.0779
$L^*_N = 8.08$	M	1.0	0.0	1.0	57.42	93.9	-61.52	112.26	327	52.54	25.36	90.6	0.3118	0.1505	0.2863
	N	0.0	0.0	0.0	8.08	0.0	0.0	0.01	0	0.85	0.89	0.97	0.3127	0.329	0.0101
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18	88.57	96.43	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	8.08	0.0	0.0	0.01	0	0.85	0.89	0.97	0.3127	0.329	0.0101
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18	88.57	96.43	0.3127	0.329	1.0

Colorimetric "Adapted data (a0)": LCD Luminous System LECD_00a0 for CIE lightness $L^*_N=00$ of black for illuminant D65

System LECD_00a0	Color	$r=olv*_1$	$g=olv*_2$	$b=olv*_3$	L^*_{a0}	a^*_{a0}	b^*_{a0}	$C^*_{ab,a0}$	$h_{ab,a0}$	$X_{a0}=XYZ_{1a0}$	$Y_{a0}=XYZ_{2a0}$	$Z_{a0}=XYZ_{3a0}$	x_{a0}	y_{a0}	$Y_{a0}/88.59$
LECD system	O (R)	1.0	0.0	0.0	50.26	76.54	78.17	109.4	46	$36.11=k(36.6-0.85)$	$18.64=k(19.35-0.89)$	$0.59=k(1.56-0.97)$	0.6525	0.3368	0.2105
	Y	1.0	1.0	0.0	92.8	-21.65	108.41	110.56	101	$68.05=k(68.22-0.85)$	$82.52=k(82.58-0.89)$	$6.76=k(7.66-0.97)$	0.4326	0.5245	0.9317
D65 reflection:	L (G)	0.0	1.0	0.0	84.03	-83.61	95.42	126.88	131	$31.92=k(32.45-0.85)$	$64.13=k(64.37-0.89)$	$6.23=k(7.14-0.97)$	0.3121	0.627	0.724
	C	0.0	1.0	1.0	86.97	-45.77	-14.14	47.92	197	$47.95=k(48.32-0.85)$	$69.94=k(70.13-0.89)$	$95.84=k(95.85-0.97)$	0.2243	0.3272	0.7897
$Y_N = 0.0$	V (B)	0.0	0.0	1.0	29.58	79.76	-109.12	135.17	306	$16.03=k(16.71-0.85)$	$6.07=k(6.9-0.89)$	$90.03=k(90.09-0.97)$	0.1429	0.0541	0.0685
$L^*_N = 0.0$	M	1.0	0.0	1.0	56.79	95.76	-62.56	114.39	327	$52.22=k(52.54-0.85)$	$24.71=k(25.36-0.89)$	$90.54=k(90.6-0.97)$	0.3118	0.1475	0.279
	N	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	$0.0=k(0.85-0.85)$	$0.0=k(0.89-0.89)$	$0.0=k(0.97-0.97)$	0.0	0.0	0.0
$k = 88.57 / (88.57 - 0.89) = 1.01$	W	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	$84.18=k(84.18-0.85)$	$88.57=k(88.57-0.89)$	$96.43=k(96.43-0.97)$	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	$0.0=k(0.85-0.85)$	$0.0=k(0.89-0.89)$	$0.0=k(0.97-0.97)$	0.0	0.0	0.0
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	$84.18=k(84.18-0.85)$	$88.57=k(88.57-0.89)$	$96.43=k(96.43-0.97)$	0.3127	0.329	1.0

Colorimetric "Adapted data (a0)": LCD Luminous System LECD_00a0 for CIE lightness $L^*_N=00$ of black for illuminant D65

System LECD_00a0	Color	$r=olv*1$	$g=olv*2$	$b=olv*3$	L^*_{a0}	a^*_{a0}	b^*_{a0}	$C^*_{ab,a0}$	$h_{ab,a0}$	$X_{a0}=XYZ1a0$	$Y_{a0}=XYZ2a0$	$Z_{a0}=XYZ3a0$	x_{a0}	y_{a0}	$Y_{a0}/88.59$
LECD system	O (R)	1.0	0.0	0.0	50.26	76.54	78.17	109.4	46	36.11=k(36.6-0.85)	18.64=k(19.35-0.89)	0.59=k(1.56-0.97)	0.6525	0.3368	0.2105
	Y	1.0	1.0	0.0	92.8	-21.65	108.41	110.56	101	68.05=k(68.22-0.85)	82.52=k(82.58-0.89)	6.76=k(7.66-0.97)	0.4326	0.5245	0.9317
	L (G)	0.0	1.0	0.0	84.03	-83.61	95.42	126.88	131	31.92=k(32.45-0.85)	64.13=k(64.37-0.89)	6.23=k(7.14-0.97)	0.3121	0.627	0.724
	C	0.0	1.0	1.0	86.97	-45.77	-14.14	47.92	197	47.95=k(48.32-0.85)	69.94=k(70.13-0.89)	95.84=k(95.85-0.97)	0.2243	0.3272	0.7897
	V (B)	0.0	0.0	1.0	29.58	79.76	-109.12	135.17	306	16.03=k(16.71-0.85)	6.07=k(6.9-0.89)	90.03=k(90.09-0.97)	0.1429	0.0541	0.0685
D65 reflection:	M	1.0	0.0	1.0	56.79	95.76	-62.56	114.39	327	52.22=k(52.54-0.85)	24.71=k(25.36-0.89)	90.54=k(90.6-0.97)	0.3118	0.1475	0.279
	N	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=k(0.85-0.85)	0.0=k(0.89-0.89)	0.0=k(0.97-0.97)	0.0	0.0	0.0
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18=k(84.18-0.85)	88.57=k(88.57-0.89)	96.43=k(96.43-0.97)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=k(0.85-0.85)	0.0=k(0.89-0.89)	0.0=k(0.97-0.97)	0.0	0.0	0.0
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18=k(84.18-0.85)	88.57=k(88.57-0.89)	96.43=k(96.43-0.97)	0.3127	0.329	1.0

Calculated colorimetric data: LCD Luminous Systems LECD_xxa for CIE lightness $L^*_N=00, 06, 11, 18$ of black for illuminant D65

System LECD_00a	Color	$r=olv*1$	$g=olv*2$	$b=olv*3$	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ1a$	$Y_a=XYZ2a$	$Z_a=XYZ3a$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	50.26	76.54	78.17	109.4	46	36.11(=36.11n+0.0)	18.64(=18.64n+0.0)	0.59(=0.59n+0.0)	0.6525	0.3368	0.2105
	Y	1.0	1.0	0.0	92.8	-21.65	108.41	110.56	101	68.05(=68.05n+0.0)	82.52(=82.52n+0.0)	6.76(=6.76n+0.0)	0.4326	0.5245	0.9317
	L (G)	0.0	1.0	0.0	84.03	-83.61	95.42	126.88	131	31.92(=31.92n+0.0)	64.13(=64.13n+0.0)	6.23(=6.23n+0.0)	0.3121	0.627	0.724
	C	0.0	1.0	1.0	86.97	-45.77	-14.14	47.92	197	47.95(=47.95n+0.0)	69.94(=69.94n+0.0)	95.84(=95.84n+0.0)	0.2243	0.3272	0.7897
	V (B)	0.0	0.0	1.0	29.58	79.76	-109.12	135.17	306	16.03(=16.03n+0.0)	6.07(=6.07n+0.0)	90.03(=90.03n+0.0)	0.1429	0.0541	0.0685
D65 reflection:	M	1.0	0.0	1.0	56.79	95.76	-62.56	114.39	327	52.22(=52.22n+0.0)	24.71(=24.71n+0.0)	90.54(=90.54n+0.0)	0.3118	0.1475	0.279
	N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0(=0.0n+0.0)	0.0(=0.0n+0.0)	0.0(=0.0n+0.0)	0.0	0.0	0.0
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=84.18n+0.0)	88.57(=88.57n+0.0)	96.43(=96.43n+0.0)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0(=0.0n+0.0)	0.0(=0.0n+0.0)	0.0(=0.0n+0.0)	0.0	0.0	0.0
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=84.18n+0.0)	88.57(=88.57n+0.0)	96.43(=96.43n+0.0)	0.3127	0.329	1.0

System LECD_06a	Color	$r=olv*1$	$g=olv*2$	$b=olv*3$	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ1a$	$Y_a=XYZ2a$	$Z_a=XYZ3a$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	50.85	75.16	69.83	102.59	43	36.46(=36.11n+0.6)	19.14(=18.64n+0.63)	1.28(=0.59n+0.69)	0.6411	0.3365	0.2161
	Y	1.0	1.0	0.0	92.82	-21.48	106.03	108.19	101	68.17(=68.05n+0.6)	82.56(=82.52n+0.63)	7.39(=6.76n+0.69)	0.4311	0.5221	0.9322
	L (G)	0.0	1.0	0.0	84.12	-82.66	93.01	124.44	132	32.29(=31.92n+0.6)	64.3(=64.13n+0.63)	6.87(=6.23n+0.69)	0.3121	0.6215	0.726
	C	0.0	1.0	1.0	87.03	-45.34	-14.03	47.47	197	48.21(=47.95n+0.6)	70.07(=69.94n+0.63)	95.85(=95.84n+0.69)	0.2251	0.3272	0.7912
	V (B)	0.0	0.0	1.0	31.01	76.38	-106.7	131.22	306	16.51(=16.03n+0.6)	6.65(=6.07n+0.63)	90.08(=90.03n+0.69)	0.1458	0.0588	0.0751
D65 reflection:	M	1.0	0.0	1.0	57.24	94.45	-61.83	112.89	327	52.45(=52.22n+0.6)	25.16(=24.71n+0.63)	90.58(=90.54n+0.69)	0.3118	0.1496	0.2841
	N	0.0	0.0	0.0	5.69	0.0	0.0	0.0	0	0.6(=0.0n+0.6)	0.63(=0.0n+0.63)	0.69(=0.0n+0.69)	0.3127	0.329	0.0071
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=84.18n+0.6)	88.57(=88.57n+0.63)	96.43(=96.43n+0.69)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	5.69	0.0	0.0	0.0	0	0.6(=0.0n+0.6)	0.63(=0.0n+0.63)	0.69(=0.0n+0.69)	0.3127	0.329	0.0071
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=84.18n+0.6)	88.57(=88.57n+0.63)	96.43(=96.43n+0.69)	0.3127	0.329	1.0

System LECD_11a	Color	$r=olv*1$	$g=olv*2$	$b=olv*3$	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ1a$	$Y_a=XYZ2a$	$Z_a=XYZ3a$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	51.42	73.82	63.85	97.6	41	36.8(=36.11n+1.2)	19.63(=18.64n+1.26)	1.96(=0.59n+1.37)	0.6302	0.3363	0.2217
	Y	1.0	1.0	0.0	92.84	-21.31	103.78	105.95	102	68.28(=68.05n+1.26)	82.6(=82.52n+1.26)	7.39(=6.76n+1.37)	0.4297	0.5198	0.9327
	L (G)	0.0	1.0	0.0	84.21	-81.71	90.76	122.13	132	32.66(=31.92n+1.2)	64.47(=64.13n+1.26)	7.51(=6.23n+1.37)	0.3121	0.6161	0.728
	C	0.0	1.0	1.0	87.1	-44.91	-13.92	47.03	197	48.47(=47.95n+1.2)	70.21(=69.94n+1.26)	95.85(=95.84n+1.37)	0.2259	0.3273	0.7927
	V (B)	0.0	0.0	1.0	32.35	73.29	-104.41	127.58	305	17.0(=16.03n+1.2)	7.24(=6.07n+1.26)	90.12(=90.03n+1.37)	0.1486	0.0633	0.0818
D65 reflection:	M	1.0	0.0	1.0	57.67	93.15	-61.1	111.41	327	52.67(=52.22n+1.2)	25.62(=24.71n+1.26)	90.63(=90.54n+1.37)	0.3118	0.1517	0.2893
	N	0.0	0.0	0.0	10.99	0.0	0.0	0.0	0	1.2(=0.0n+1.2)	1.26(=0.0n+1.26)	1.37(=0.0n+1.37)	0.3127	0.329	0.0142
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=84.18n+1.2)	88.57(=88.57n+1.26)	96.43(=96.43n+1.37)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	10.99	0.0	0.0	0.0	0	1.2(=0.0n+1.2)	1.26(=0.0n+1.26)	1.37(=0.0n+1.37)	0.3127	0.329	0.0142
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=84.18n+1.2)	88.57(=88.57n+1.26)	96.43(=96.43n+1.37)	0.3127	0.329	1.0

System LECD_18a	Color	$r=olv*1$	$g=olv*2$	$b=olv*3$	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ1a$	$Y_a=XYZ2a$	$Z_a=XYZ3a$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	52.54	71.23	55.69	90.42	38	37.48(=36.11n+2.4)	20.63(=18.64n+2.52)	3.32(=0.59n+2.74)	0.6101	0.3358	0.2329
	Y	1.0	1.0	0.0	92.88	-20.97	99.62	101.81	102	68.51(=68.05n+2.4)	82.69(=82.52n+2.52)	9.31(=6.76n+2.74)	0.4268	0.5152	0.9336
	L (G)	0.0	1.0	0.0	84.39	-79.85	86.64	117.83	133	33.41(=31.92n+2.4)	64.82(=64.13n+2.52)	8.79(=6.23n+2.74)	0.3121	0.6057	0.7319
	C	0.0	1.0	1.0	87.23	-44.06	-13.7	46.15	197	48.98(=47.95n+2.4)	70.47(=69.94n+2.52)	95.86(=95.84n+2.74)	0.2275	0.3273	0.7957
	V (B)	0.0	0.0	1.0	34.83	67.85	-100.19	121.01	304	17.97(=16.03n+2.4)	8.41(=6.07n+2.52)	90.21(=90.03n+2.74)	0.1541	0.0722	0.095
D65 reflection:	M	1.0	0.0	1.0	58.53	90.62	-59.67	108.51	327	53.13(=52.22n+2.4)	26.53(=24.71n+2.52)	90.71(=90.54n+2.74)	0.3119	0.1557	0.2995
	N	0.0	0.0	0.0	18.01	0.0	0.0	0.0	0	2.4(=0.0n+2.4)	2.74(=0.0n+2.74)	2.74(=0.0n+2.74)	0.3127	0.329	0.0285
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=84.18n+2.4)	88.57(=88.57n+2.52)	96.43(=96.43n+2.74)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	18.01	0.0	0.0	0.0	0	2.4(=0.0n+2.4)	2.74(=0.0n+2.52)	2.74(=0.0n+2.74)	0.3127	0.329	0.0285
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=84.18n+2.4)	88.57(=88.57n+2.52)	96.43(=96.43n+2.74)	0.3127	0.329	1.0

JE100-7N, Colorimetric data of LCD Luminous System LECD_08_9508a for CIE standard illuminant D65; LECD-System; Page: 2/3

TUB-test chart JE10; 8 basic colors OYLCVMNW, LECD08

Calculation of CIE data for LECD display for 8 reflections

input: $olv* setrgbcolor$

output: no change compared to input

Colorimetric "Adapted data (a0)": LCD Luminous System LECD_00a0 for CIE lightness $L^*_N=00$ of black for illuminant D65

System LECD_00a0	Color	$r=olv^*_1$	$g=olv^*_2$	$b=olv^*_3$	L^*_{a0}	a^*_{a0}	b^*_{a0}	$C^*_{ab,a0}$	$h_{ab,a0}$	$X_{a0}=XYZ_{1a0}$	$Y_{a0}=XYZ_{2a0}$	$Z_{a0}=XYZ_{3a0}$	x_{a0}	y_{a0}	$Y_{a0}/88.59$
LECD system	O (R)	1.0	0.0	0.0	50.26	76.54	78.17	109.4	46	36.11=k(36.6-0.85)	18.64=k(19.35-0.89)	0.59=k(1.56-0.97)	0.6525	0.3368	0.2105
	Y	1.0	1.0	0.0	92.8	-21.65	108.41	110.56	101	68.05=k(68.22-0.85)	82.52=k(82.58-0.89)	6.76=k(7.66-0.97)	0.4326	0.5245	0.9317
D65 reflection:	L (G)	0.0	1.0	0.0	84.03	-83.61	95.42	126.88	131	31.92=k(32.45-0.85)	64.13=k(64.37-0.89)	6.23=k(7.14-0.97)	0.3121	0.627	0.724
	C	0.0	1.0	1.0	86.97	-45.77	-14.14	47.92	197	47.95=k(48.32-0.85)	69.94=k(70.13-0.89)	95.84=k(95.85-0.97)	0.2243	0.3272	0.7897
$Y_N = 0.0$	V (B)	0.0	0.0	1.0	29.58	79.76	-109.12	135.17	306	16.03=k(16.71-0.85)	6.07=k(6.9-0.89)	90.03=k(90.09-0.97)	0.1429	0.0541	0.0685
$L^*_N = 0.0$	M	1.0	0.0	1.0	56.79	95.76	-62.56	114.39	327	52.22=k(52.54-0.85)	24.71=k(25.36-0.89)	90.54=k(90.6-0.97)	0.3118	0.1475	0.279
	N	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=k(0.85-0.85)	0.0=k(0.89-0.89)	0.0=k(0.97-0.97)	0.0	0.0	0.0
$k = 88.57 / (88.57 - 0.89)$	W	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18=k(84.18-0.85)	88.57=k(88.57-0.89)	96.43=k(96.43-0.97)	0.3127	0.329	1.0
$= 1.01$	N0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=k(0.85-0.85)	0.0=k(0.89-0.89)	0.0=k(0.97-0.97)	0.0	0.0	0.0
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18=k(84.18-0.85)	88.57=k(88.57-0.89)	96.43=k(96.43-0.97)	0.3127	0.329	1.0

Calculated colorimetric data: LCD Luminous Systems LECD_xxa for CIE lightness $L^*_N=27, 33, 52, 70$ of black for illuminant D65

System LECD_27a	Color	$r=olv^*_1$	$g=olv^*_2$	$b=olv^*_3$	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ_{1a}$	$Y_a=XYZ_{2a}$	$Z_a=XYZ_{3a}$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	54.68	66.43	45.55	80.55	34	38.85=(36.11n+4.79)	22.62=(18.64n+5.04)	6.05=(0.59n+5.49)	0.5754	0.335	0.2554
	Y	1.0	1.0	0.0	92.95	-20.43	92.34	94.55	102	68.97=(68.05n+4.79)	82.86=(82.52n+5.04)	11.86=(6.76n+5.49)	0.4213	0.5062	0.9356
D65 reflection:	L (G)	0.0	1.0	0.0	84.75	-76.23	79.56	110.19	134	34.89=(31.92n+4.79)	65.52=(64.13n+5.04)	11.36=(6.23n+5.49)	0.3122	0.5862	0.7397
	C	0.0	1.0	1.0	87.49	-42.38	-13.27	44.42	197	50.01=(47.95n+4.79)	71.0=(69.94n+5.04)	95.88=(95.84n+5.49)	0.2306	0.3274	0.8016
$Y_N = 5.04$	V (B)	0.0	0.0	1.0	39.18	59.1	-92.83	110.05	302	19.9=(16.03n+4.79)	10.76=(6.07n+5.04)	90.39=(90.03n+5.49)	0.1644	0.0889	0.1215
$L^*_N = 26.85$	M	1.0	0.0	1.0	60.2	85.78	-56.92	102.95	326	54.04=(52.22n+4.79)	28.34=(24.71n+5.04)	90.88=(90.54n+5.49)	0.3119	0.1636	0.32
$n = (88.57 - 5.04) / 88.57$	N	0.0	0.0	0.0	26.85	0.0	0.0	0.0	0	4.79=(0.0n+4.79)	5.04=(0.0n+5.04)	5.49=(0.0n+5.49)	0.3127	0.329	0.0569
$= 0.943$	W	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18=(84.18n+4.79)	88.57=(88.57n+5.04)	96.43=(96.43n+5.49)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	26.85	0.0	0.0	0.0	0	4.79=(0.0n+4.79)	5.04=(0.0n+5.04)	5.49=(0.0n+5.49)	0.3127	0.329	0.0569
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18=(84.18n+4.79)	88.57=(88.57n+5.04)	96.43=(96.43n+5.49)	0.3127	0.329	1.0

System LECD_38a	Color	$r=olv^*_1$	$g=olv^*_2$	$b=olv^*_3$	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ_{1a}$	$Y_a=XYZ_{2a}$	$Z_a=XYZ_{3a}$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	58.6	58.03	34.08	67.3	30	41.58=(36.11n+9.58)	26.6=(18.64n+10.08)	11.5=(0.59n+10.98)	0.5219	0.3338	0.3003
	Y	1.0	1.0	0.0	93.1	-18.97	80.5	82.7	103	69.89=(68.05n+9.58)	83.21=(82.52n+10.08)	16.96=(6.76n+10.98)	0.411	0.4893	0.9395
D65 reflection:	L (G)	0.0	1.0	0.0	85.46	-69.39	68.31	97.38	135	37.87=(31.92n+9.58)	66.91=(64.13n+10.08)	16.49=(6.23n+10.98)	0.3123	0.5517	0.7554
	C	0.0	1.0	1.0	88.0	-39.12	-12.4	41.05	198	52.07=(47.95n+9.58)	72.06=(69.94n+10.08)	95.91=(95.84n+10.98)	0.2366	0.3275	0.8136
$Y_N = 10.08$	V (B)	0.0	0.0	1.0	46.25	46.74	-80.88	93.43	300	23.78=(16.03n+9.58)	15.46=(6.07n+10.08)	90.76=(90.03n+10.98)	0.1829	0.1189	0.1745
$L^*_N = 37.99$	M	1.0	0.0	1.0	63.32	76.9	-51.76	92.7	326	55.86=(52.22n+9.58)	31.98=(24.71n+10.08)	91.21=(90.54n+10.98)	0.312	0.1786	0.3611
$n = (88.57 - 10.08) / 88.57$	N	0.0	0.0	0.0	37.99	0.0	0.0	0.0	0	9.58=(0.0n+9.58)	10.08=(0.0n+10.08)	10.98=(0.0n+10.98)	0.3127	0.329	0.1138
$= 0.886$	W	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18=(84.18n+9.58)	88.57=(88.57n+10.08)	96.43=(96.43n+10.98)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	37.99	0.0	0.0	0.0	0	9.58=(0.0n+9.58)	10.08=(0.0n+10.08)	10.98=(0.0n+10.98)	0.3127	0.329	0.1138
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18=(84.18n+9.58)	88.57=(88.57n+10.08)	96.43=(96.43n+10.98)	0.3127	0.329	1.0

System LECD_52a	Color	$r=olv^*_1$	$g=olv^*_2$	$b=olv^*_3$	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ_{1a}$	$Y_a=XYZ_{2a}$	$Z_a=XYZ_{3a}$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	65.4	44.68	22.27	49.92	26	47.05=(36.11n+19.16)	34.56=(18.64n+20.16)	22.41=(0.59n+21.95)	0.4524	0.3322	0.3902
	Y	1.0	1.0	0.0	93.41	-16.34	62.72	64.82	105	71.72=(68.05n+19.16)	83.9=(82.52n+20.16)	27.17=(6.76n+21.95)	0.3924	0.459	0.9472
D65 reflection:	L (G)	0.0	1.0	0.0	86.84	-57.04	52.04	77.22	138	43.81=(31.92n+19.16)	69.69=(64.13n+20.16)	26.76=(6.23n+21.95)	0.3124	0.4969	0.7868
	C	0.0	1.0	1.0	89.01	-32.95	-10.71	34.65	198	56.2=(47.95n+19.16)	74.18=(69.94n+20.16)	95.98=(95.84n+21.95)	0.2483	0.3277	0.8375
$Y_N = 20.16$	V (B)	0.0	0.0	1.0	56.93	31.83	-62.98	70.58	297	31.54=(16.03n+19.16)	24.85=(6.07n+20.16)	91.49=(90.03n+21.95)	0.2133	0.168	0.2805
$L^*_N = 52.02$	M	1.0	0.0	1.0	68.93	61.64	-42.56	74.92	325	59.49=(52.22n+19.16)	39.25=(24.71n+20.16)	91.88=(90.54n+21.95)	0.3121	0.2059	0.4431
$n = (88.57 - 20.16) / 88.57$	N	0.0	0.0	0.0	52.02	0.0	0.0	0.0	0	19.16=(0.0n+19.16)	20.16=(0.0n+20.16)	21.95=(0.0n+21.95)	0.3127	0.329	0.2276
$= 0.772$	W	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18=(84.18n+19.16)	88.57=(88.57n+20.16)	96.43=(96.43n+21.95)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	52.02	0.0	0.0	0.0	0	19.16=(0.0n+19.16)	20.16=(0.0n+20.16)	21.95=(0.0n+21.95)	0.3127	0.329	0.2276
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18=(84.18n+19.16)	88.57=(88.57n+20.16)	96.43=(96.43n+21.95)	0.3127	0.329	1.0

System LECD_70a	Color	$r=olv^*_1$	$g=olv^*_2$	$b=olv^*_3$	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ_{1a}$	$Y_a=XYZ_{2a}$	$Z_a=XYZ_{3a}$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	76.36	25.99	11.13	28.27	23	57.99=(36.11n+38.32)	50.47=(18.64n+40.32)	44.22=(0.59n+43.9)	0.3798	0.3306	0.5699
	Y	1.0	1.0	0.0	94.0	-11.28	37.88	39.53	107	75.39=(68.05n+38.32)	85.27=(82.52n+40.32)	47.58=(6.76n+43.9)	0.362	0.4095	0.9628
D65 reflection:	L (G)	0.0	1.0	0.0	89.51	-36.33	30.45	47.42	140	55.71=(31.92n+38.32)	75.25=(64.13n+40.32)	47.29=(6.23n+43.9)	0.3125	0.4222	0.8497
	C	0.0	1.0	1.0	90.97	-21.81	-7.41	23.05	199	64.44=(47.95n+38.32)	78.42=(69.94n+40.32)	96.11=(95.84n+43.9)	0.2697	0.3282	0.8854
$Y_N = 40.32$	V (B)	0.0	0.0	1.0	71.98	16.33	-38.03	41.4	293	47.05=(16.03n+38.32)	43.63=(6.07n+40.32)	92.95=(90.03n+43.9)	0.2562	0.2376	0.4926
$L^*_N = 69.7$	M	1.0	0.0	1.0	78.33	37.87	-27.26	46.67	324	66.77=(52.22n+38.32)	53.78=(24.71n+40.32)	93.22=(90.54n+43.9)	0.3123	0.2516	0.6072
$n = (88.57 - 40.32) / 88.57$	N	0.0	0.0	0.0	69.7	0.0	0.0	0.0	0	38.32=(0.0n+38.32)	40.32=(0.0n+40.32)	43.9=(0.0n+43.9)	0.3127	0.329	0.4552
$= 0.545$	W	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18=(84.18n+38.32)	88.57=(88.57n+40.32)	96.43=(96.43n+43.9)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	69.7	0.0	0.0	0.0	0	38.32=(0.0n+38.32)	40.32=(0.0n+40.32)	43.9=(0.0n+43.9)	0.3127	0.329	0.4552
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18=(84.18n+38.32)	88.57=(88.57n+40.32)	96.43=(96.43n+43.9)	0.3127	0.329	1.0

JE100-7N, Colorimetric data of LCD Luminous System LECD_08_9508a for CIE standard illuminant D65; LECD-System; Page: 3/3

TUB-test chart JE10; 8 basic colors OYLCVMNW, LECD08

Calculation of CIE data for LECD display for 8 reflections

input: $olv^* \text{ setrgbcolor}$ output: *no change compared to input*