

Colorimetric "Standard data": LCD Luminous System LECD_00 for CIE lightness $L^*=00$ of black for illuminant D65

System LECD_00	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	50.19	76.72	79.29	110.33	46	36.07	18.58	0.51	0.654	0.3368	0.2098
	Y	1.0	1.0	0.0	92.8	-21.67	108.74	110.88	101	68.04	82.51	6.67	0.4328	0.5248	0.9316
D65 reflection:	L (G)	0.0	1.0	0.0	84.02	-83.74	95.74	127.2	131	31.87	64.1	6.14	0.3121	0.6278	0.7238
	C	0.0	1.0	1.0	86.96	-45.83	-14.15	47.98	197	47.92	69.92	95.85	0.2242	0.3272	0.7895
$Y_N = 0.0$	V (B)	0.0	0.0	1.0	29.39	80.22	-109.45	135.71	306	15.96	5.99	90.03	0.1425	0.0535	0.0676
$L^*_N = 0.01$	M	1.0	0.0	1.0	56.74	95.94	-62.66	114.59	327	52.2	24.66	90.55	0.3118	0.1473	0.2784
	N	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0	0.0	0.0	0.0	0.3127	0.329	0.0
	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	0.01	0.0	0.0	0.01	0	0.0	0.0	0.0	0.3127	0.329	0.0
	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_00a for CIE lightness $L^*=00a$ of black for illuminant D65

System LECD_00a	Color	$r=olv*_1$	$g=olv*_2$	$b=olv*_3$	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ_{1a}$	$Y_a=XYZ_{2a}$	$Z_a=XYZ_{3a}$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	50.19	76.72	79.29	110.33	46	36.07	18.58	0.51	0.654	0.3368	0.2098
	Y	1.0	1.0	0.0	92.8	-21.67	108.74	110.88	101	68.04	82.51	6.67	0.4328	0.5248	0.9316
D65 reflection:	L (G)	0.0	1.0	0.0	84.02	-83.74	95.74	127.2	131	31.87	64.1	6.14	0.3121	0.6278	0.7238
	C	0.0	1.0	1.0	86.96	-45.83	-14.15	47.98	197	47.92	69.92	95.85	0.2242	0.3272	0.7895
$Y_N = 0.0$	V (B)	0.0	0.0	1.0	29.39	80.22	-109.45	135.71	306	15.96	5.99	90.03	0.1425	0.0535	0.0676
$L^*_N = 0.01$	M	1.0	0.0	1.0	56.74	95.94	-62.66	114.59	327	52.2	24.66	90.55	0.3118	0.1473	0.2784
	N	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0	0.0	0.0	0.0	0.3127	0.329	0.0
	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	0.01	0.0	0.0	0.01	0	0.0	0.0	0.0	0.3127	0.329	0.0
	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 $L^*=00a0$ 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	50.19	76.72	79.29	110.33	46	36.07(=36.07+0.0)	18.58(=18.58+0.0)	0.51(=0.51+0.0)	0.654	0.3368	0.2098
	Y	1.0	1.0	0.0	92.8	-21.67	108.74	110.88	101	68.04(=68.04+0.0)	82.51(=82.51+0.0)	6.67(=6.67+0.0)	0.4328	0.5248	0.9316
D65 reflection:	L (G)	0.0	1.0	0.0	84.02	-83.74	95.74	127.2	131	31.87(=31.87+0.0)	64.1(=64.1+0.0)	6.14(=6.14+0.0)	0.3121	0.6278	0.7238
	C	0.0	1.0	1.0	86.96	-45.83	-14.15	47.98	197	47.92(=47.92+0.0)	69.92(=69.92+0.0)	95.85(=95.85+0.0)	0.2242	0.3272	0.7895
$Y_N = 0.0$	V (B)	0.0	0.0	1.0	29.39	80.22	-109.45	135.71	306	15.96(=15.96+0.0)	5.99(=5.99+0.0)	90.03(=90.03+0.0)	0.1425	0.0535	0.0676
$L^*_N = 0.0$	M	1.0	0.0	1.0	56.74	95.94	-62.66	114.59	327	52.2(=52.2+0.0)	24.66(=24.66+0.0)	90.55(=90.55+0.0)	0.3118	0.1473	0.2784
	N	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18(=84.17+0.0)	88.57(=88.57+0.0)	96.43(=96.43+0.0)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18(=84.17+0.0)	88.57(=88.57+0.0)	96.43(=96.43+0.0)	0.3127	0.329	1.0

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

System LECD_00a0	Color	$r=olv*1$	$g=olv*2$	$b=olv*3$	L^*_{a0}	a^*_{a0}	b^*_{a0}	$C^*_{ab,a0}$	$h_{ab,a}$	$X_{a0}=XYZ1a0$	$Y_{a0}=XYZ2a0$	$Z_{a0}=XYZ3a0$	x_{a0}	y_{a0}	$Y_{a0}/88.59$
LECD system	O (R)	1.0	0.0	0.0	50.19	76.72	79.29	110.33	46	36.07(=36.07+0.0)	18.58(=18.58+0.0)	0.51(=0.51+0.0)	0.654	0.3368	0.2098
	Y	1.0	1.0	0.0	92.8	-21.67	108.74	110.88	101	68.04(=68.04+0.0)	82.51(=82.51+0.0)	6.67(=6.67+0.0)	0.4328	0.5248	0.9316
D65 reflection:	L (G)	0.0	1.0	0.0	84.02	-83.74	95.74	127.2	131	31.87(=31.87+0.0)	64.1(=64.1+0.0)	6.14(=6.14+0.0)	0.3121	0.6278	0.7238
	C	0.0	1.0	1.0	86.96	-45.83	-14.15	47.98	197	47.92(=47.92+0.0)	69.92(=69.92+0.0)	95.85(=95.84+0.0)	0.2242	0.3272	0.7895
$Y_N = 0.0$	V (B)	0.0	0.0	1.0	29.39	80.22	-109.45	135.71	306	15.96(=15.96+0.0)	5.99(=5.99+0.0)	90.03(=90.03+0.0)	0.1425	0.0535	0.0676
	M	1.0	0.0	1.0	56.74	95.94	-62.66	114.59	327	52.2(=52.2+0.0)	24.66(=24.66+0.0)	90.55(=90.55+0.0)	0.3118	0.1473	0.2784
$L^*_N = 0.0$	N	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18(=84.17+0.0)	88.57(=88.57+0.0)	96.43(=96.43+0.0)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18(=84.17+0.0)	88.57(=88.57+0.0)	96.43(=96.43+0.0)	0.3127	0.329	1.0

Calculated colorimetric data: LCD Luminous Systems LECD_xxa for CIE lightness $L^*=00, 06, 11, 18$ 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	50.19	76.72	79.29	110.33	46	36.07(=36.07+0.0)	18.58(=18.58+0.0)	0.51(=0.51+0.0)	0.654	0.3368	0.2098
	Y	1.0	1.0	0.0	92.8	-21.67	108.74	110.88	101	68.04(=68.04+0.0)	82.51(=82.51+0.0)	6.67(=6.67+0.0)	0.4328	0.5248	0.9316
D65 reflection:	L (G)	0.0	1.0	0.0	84.02	-83.74	95.74	127.2	131	31.87(=31.87+0.0)	64.1(=64.1+0.0)	6.14(=6.14+0.0)	0.3121	0.6278	0.7238
	C	0.0	1.0	1.0	86.96	-45.83	-14.15	47.98	197	47.92(=47.92+0.0)	69.92(=69.92+0.0)	95.85(=95.85+0.0)	0.2242	0.3272	0.7895
$Y_N = 0.0$	V (B)	0.0	0.0	1.0	29.39	80.22	-109.45	135.71	306	15.96(=15.96+0.0)	5.99(=5.99+0.0)	90.03(=90.03+0.0)	0.1425	0.0535	0.0676
	M	1.0	0.0	1.0	56.74	95.94	-62.66	114.59	327	52.2(=52.2+0.0)	24.66(=24.66+0.0)	90.55(=90.55+0.0)	0.3118	0.1473	0.2784
$L^*_N = 0.0$	N	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3037	0.3195	0.0
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=84.18+0.0)	88.57(=88.57+0.0)	96.43(=96.43+0.0)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3037	0.3195	0.0
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=84.18+0.0)	88.57(=88.57+0.0)	96.43(=96.43+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	50.78	75.33	70.76	103.36	43	36.42(=35.82+0.6)	19.08(=18.45+0.63)	1.19(=0.5+0.69)	0.6425	0.3365	0.2154
	Y	1.0	1.0	0.0	92.82	-21.5	106.33	108.49	101	68.15(=67.55+0.6)	82.55(=81.92+0.63)	7.31(=6.62+0.69)	0.4313	0.5224	0.9321
D65 reflection:	L (G)	0.0	1.0	0.0	84.11	-82.78	93.31	124.75	132	32.24(=31.64+0.6)	64.28(=63.65+0.63)	6.79(=6.1+0.69)	0.3121	0.6222	0.7257
	C	0.0	1.0	1.0	87.03	-45.4	-14.04	47.53	197	48.18(=47.58+0.6)	70.06(=69.43+0.63)	95.85(=95.16+0.69)	0.225	0.3272	0.791
$Y_N = 0.63$	V (B)	0.0	0.0	1.0	30.83	76.79	-107.0	131.71	306	16.45(=15.85+0.6)	6.58(=5.95+0.63)	90.07(=89.39+0.69)	0.1454	0.0582	0.0743
	M	1.0	0.0	1.0	57.18	94.62	-61.92	113.09	327	52.43(=51.83+0.6)	25.11(=24.48+0.63)	90.6(=89.91+0.69)	0.3118	0.1494	0.2835
$L^*_N = 5.69$	N	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0	0.6(=0.0+0.6)	0.63(=0.0+0.63)	0.69(=0.0+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(=83.58+0.6)	88.57(=87.94+0.63)	96.43(=95.75+0.69)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0	0.6(=0.0+0.6)	0.63(=0.0+0.63)	0.69(=0.0+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(=83.58+0.6)	88.57(=87.94+0.63)	96.43(=95.75+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	51.35	73.99	64.51	98.16	41	36.76(=35.56+1.2)	19.57(=18.31+1.26)	1.87(=0.5+1.37)	0.6316	0.3363	0.221
	Y	1.0	1.0	0.0	92.84	-21.33	104.07	106.23	102	68.27(=67.07+1.2)	82.6(=81.34+1.26)	7.95(=6.58+1.37)	0.4299	0.5201	0.9326
D65 reflection:	L (G)	0.0	1.0	0.0	84.2	-81.84	91.04	122.42	132	32.61(=31.42+1.2)	64.45(=63.19+1.26)	7.43(=6.06+1.37)	0.3121	0.6168	0.7277
	C	0.0	1.0	1.0	87.09	-44.97	-13.93	47.09	197	48.43(=47.24+1.2)	70.19(=68.93+1.26)	95.85(=94.48+1.37)	0.2258	0.3273	0.7925
$Y_N = 1.26$	V (B)	0.0	0.0	1.0	32.18	73.67	-104.7	128.03	305	16.93(=15.74+1.2)	7.17(=5.91+1.26)	90.12(=88.75+1.37)	0.1482	0.0627	0.0809
	M	1.0	0.0	1.0	57.62	93.32	-61.19	111.6	327	52.66(=51.46+1.2)	25.57(=24.31+1.26)	90.64(=89.27+1.37)	0.3118	0.1514	0.2887
$L^*_N = 11.0$	N	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0	1.2(=0.0+1.2)	1.26(=0.0+1.26)	1.37(=0.0+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(=82.98+1.2)	88.57(=87.31+1.26)	96.43(=95.06+1.37)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0	1.2(=0.0+1.2)	1.26(=0.0+1.26)	1.37(=0.0+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(=82.98+1.2)	88.57(=87.31+1.26)	96.43(=95.06+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	52.48	71.39	56.11	90.8	38	37.44(=35.05+2.4)	20.57(=18.05+2.52)	3.24(=0.49+2.74)	0.6113	0.3358	0.2322
	Y	1.0	1.0	0.0	92.88	-20.99	99.87	102.06	102	68.5(=66.1+2.4)	82.68(=80.16+2.52)	9.23(=6.48+2.74)	0.427	0.5155	0.9335
D65 reflection:	L (G)	0.0	1.0	0.0	84.38	-79.97	86.89	118.09	133	33.36(=30.96+2.4)	64.8(=62.28+2.52)	8.71(=5.97+2.74)	0.3121	0.6063	0.7316
	C	0.0	1.0	1.0	87.22	-44.11	-13.71	46.21	197	48.95(=46.55+2.4)	70.46(=67.94+2.52)	95.86(=93.12+2.74)	0.2274	0.3273	0.7955
$Y_N = 2.52$	V (B)	0.0	0.0	1.0	34.68	68.16	-100.45	121.4	304	17.9(=15.51+2.4)	8.34(=5.82+2.52)	90.21(=87.47+2.74)	0.1537	0.0716	0.0942
	M	1.0	0.0	1.0	58.49	90.78	-59.77	108.69	327	53.11(=50.72+2.4)	26.48(=23.96+2.52)	90.72(=87.98+2.74)	0.3118	0.1555	0.2989
$L^*_N = 18.01$	N	0.0	0.0	0.0	18.01	0.0	0.0	0.0	0	2.52(=0.0+2.4)	2.52(=0.0+2.4)	2.74(=0.0+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(=81.78+2.4)	88.57(=86.05+2.52)	96.43(=93.69+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(=0.0+2.4)	2.52(=0.0+2.52)	2.74(=0.0+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(=81.78+2.4)	88.57(=86.05+2.52)	96.43(=93.69+2.74)	0.3127	0.329	1.0

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TUB-test chart JE11; 8 basic colors OYLCVMNW, LECD00

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 $L^*=00$ of black for illuminant D65

System LECD_00a0	Color	$r=olv*_1$	$g=olv*_2$	$b=olv*_3$	L^*_{a0}	a^*_{a0}	b^*_{a0}	$C^*_{ab,a0}$	$h_{ab,a}$	$X_{a0}=XYZ1a0$	$Y_{a0}=XYZ2a0$	$Z_{a0}=XYZ3a0$	x_{a0}	y_{a0}	$Y_{a0}/88.59$
LECD system	O (R)	1.0	0.0	0.0	50.19	76.72	79.29	110.33	46	36.07(=36.07+0.0)	18.58(=18.58+0.0)	0.51(=0.51+0.0)	0.654	0.3368	0.2098
	Y	1.0	1.0	0.0	92.8	-21.67	108.74	110.88	101	68.04(=68.04+0.0)	82.51(=82.51+0.0)	6.67(=6.67+0.0)	0.4328	0.5248	0.9316
D65 reflection:	L (G)	0.0	1.0	0.0	84.02	-83.74	95.74	127.2	131	31.87(=31.87+0.0)	64.1(=64.1+0.0)	6.14(=6.14+0.0)	0.3121	0.6278	0.7238
	C	0.0	1.0	1.0	86.96	-45.83	-14.15	47.98	197	47.92(=47.92+0.0)	69.92(=69.92+0.0)	95.85(=95.84+0.0)	0.2242	0.3272	0.7895
$Y_N = 0.0$	V (B)	0.0	0.0	1.0	29.39	80.22	-109.45	135.71	306	15.96(=15.96+0.0)	5.99(=5.99+0.0)	90.03(=90.03+0.0)	0.1425	0.0535	0.0676
	M	1.0	0.0	1.0	56.74	95.94	-62.66	114.59	327	52.2(=52.2+0.0)	24.66(=24.66+0.0)	90.55(=90.55+0.0)	0.3118	0.1473	0.2784
$L^*_N = 0.0$	N	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18(=84.17+0.0)	88.57(=88.57+0.0)	96.43(=96.43+0.0)	0.3127	0.329	1.0
	N0	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
	W1	1.0	1.0	1.0	95.4	0.0	0.0	0.01	0	84.18(=84.17+0.0)	88.57(=88.57+0.0)	96.43(=96.43+0.0)	0.3127	0.329	1.0

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

System LECD_27a	Color	$r=olv*_1$	$g=olv*_2$	$b=olv*_3$	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ1a$	$Y_a=XYZ2a$	$Z_a=XYZ3a$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	54.62	66.57	45.79	80.8	35	38.81(=34.02+4.79)	22.56(=17.52+5.04)	5.97(=0.48+5.49)	0.5764	0.335	0.2547
	Y	1.0	1.0	0.0	92.95	-20.32	92.55	94.76	102	68.86(=64.17+4.79)	82.86(=77.82+5.04)	11.78(=6.29+5.49)	0.4215	0.5065	0.9355
D65 reflection:	L (G)	0.0	1.0	0.0	84.74	-76.34	79.75	110.41	134	34.85(=30.06+4.79)	65.5(=60.46+5.04)	11.28(=5.79+5.49)	0.3122	0.5868	0.7395
	C	0.0	1.0	1.0	87.48	-42.43	-13.28	44.47	197	49.98(=45.19+4.79)	70.99(=65.95+5.04)	95.88(=90.39+5.49)	0.2305	0.3274	0.8015
$Y_N = 5.04$	V (B)	0.0	0.0	1.0	39.05	59.33	-93.04	110.35	303	19.84(=15.05+4.79)	10.69(=5.65+5.04)	90.39(=84.91+5.49)	0.1641	0.0884	0.1207
	M	1.0	0.0	1.0	60.15	85.93	-57.01	103.12	326	54.02(=49.23+4.79)	28.29(=23.25+5.04)	90.89(=85.4+5.49)	0.3119	0.1634	0.3195
$L^*_N = 26.85$	N	0.0	0.0	0.0	26.85	0.0	0.0	0.0	0	4.79(=0.0+4.79)	5.04(=0.0+5.04)	5.49(=0.0+5.49)	0.3127	0.329	0.0569
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=79.39+4.79)	88.57(=83.53+5.04)	96.43(=90.95+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(=0.0+4.79)	5.04(=0.0+5.04)	5.49(=0.0+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(=79.39+4.79)	88.57(=83.53+5.04)	96.43(=90.95+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	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ1a$	$Y_a=XYZ2a$	$Z_a=XYZ3a$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	58.55	58.14	34.2	67.46	30	41.55(=31.97+9.58)	26.54(=16.46+10.08)	11.42(=0.45+10.98)	0.5225	0.3338	0.2997
	Y	1.0	1.0	0.0	93.1	-18.98	80.65	82.86	103	69.87(=60.29+9.58)	83.2(=73.12+10.08)	16.89(=5.91+10.98)	0.4111	0.4895	0.9394
D65 reflection:	L (G)	0.0	1.0	0.0	85.45	-69.49	68.46	97.55	135	37.82(=28.24+9.58)	66.89(=56.81+10.08)	16.42(=5.44+10.98)	0.3122	0.5522	0.7552
	C	0.0	1.0	1.0	87.99	-39.16	-12.42	41.1	198	52.04(=42.46+9.58)	72.05(=61.97+10.08)	95.91(=84.94+10.98)	0.2366	0.3275	0.8135
$Y_N = 10.08$	V (B)	0.0	0.0	1.0	46.16	46.89	-81.04	93.63	300	23.73(=14.15+9.58)	15.39(=5.31+10.08)	90.76(=79.78+10.98)	0.1827	0.1185	0.1738
	M	1.0	0.0	1.0	63.29	77.03	-51.84	92.85	326	55.84(=46.26+9.58)	31.23(=21.85+10.08)	91.22(=80.25+10.98)	0.312	0.1784	0.3605
$L^*_N = 37.99$	N	0.0	0.0	0.0	37.99	0.0	0.0	0.0	0	9.58(=0.0+9.58)	10.08(=0.0+10.08)	10.98(=0.0+10.98)	0.3127	0.329	0.1138
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=74.6+9.58)	88.57(=78.49+10.08)	96.43(=85.46+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(=0.0+9.58)	10.08(=0.0+10.08)	10.98(=0.0+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(=74.6+9.58)	88.57(=78.49+10.08)	96.43(=85.46+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	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ1a$	$Y_a=XYZ2a$	$Z_a=XYZ3a$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	65.36	44.75	22.32	50.01	27	47.02(=27.86+19.16)	34.51(=14.35+20.16)	22.34(=0.39+21.95)	0.4527	0.3322	0.3896
	Y	1.0	1.0	0.0	93.4	-16.36	62.81	64.91	105	71.71(=52.55+19.16)	83.89(=63.73+20.16)	27.1(=5.15+21.95)	0.3925	0.4592	0.9472
D65 reflection:	L (G)	0.0	1.0	0.0	86.84	-57.11	52.13	77.33	138	43.78(=24.62+19.16)	69.67(=49.51+20.16)	26.69(=4.74+21.95)	0.3124	0.4972	0.7866
	C	0.0	1.0	1.0	89.0	-32.98	-10.72	34.69	198	56.17(=37.01+19.16)	74.17(=54.01+20.16)	95.98(=74.03+21.95)	0.2482	0.3277	0.8374
$Y_N = 20.16$	V (B)	0.0	0.0	1.0	56.87	31.9	-63.08	70.7	297	31.49(=12.33+19.16)	24.79(=4.63+20.16)	91.49(=69.54+21.95)	0.2131	0.1678	0.2799
	M	1.0	0.0	1.0	68.9	61.74	-42.62	75.02	325	59.48(=40.32+19.16)	39.2(=19.04+20.16)	91.89(=69.94+21.95)	0.3121	0.2057	0.4426
$L^*_N = 52.02$	N	0.0	0.0	0.0	52.02	0.0	0.0	0.0	0	19.16(=0.0+19.16)	20.16(=0.0+20.16)	21.95(=0.0+21.95)	0.3127	0.329	0.2276
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=65.02+19.16)	88.57(=68.41+20.16)	96.43(=74.48+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(=0.0+19.16)	20.16(=0.0+20.16)	21.95(=0.0+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(=65.02+19.16)	88.57(=68.41+20.16)	96.43(=74.48+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	$C^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ1a$	$Y_a=XYZ2a$	$Z_a=XYZ3a$	x_a	y_a	$Y_a/88.59$
LECD system	O (R)	1.0	0.0	0.0	76.34	26.03	11.14	28.31	23	57.97(=19.65+38.32)	50.44(=10.12+40.32)	44.18(=0.28+43.9)	0.3799	0.3306	0.5695
	Y	1.0	1.0	0.0	94.0	-11.29	37.93	39.58	107	75.38(=37.06+38.32)	85.27(=44.95+40.32)	47.53(=3.63+43.9)	0.3621	0.4096	0.9627
D65 reflection:	L (G)	0.0	1.0	0.0	89.51	-36.38	30.49	47.47	140	55.68(=17.36+38.32)	75.24(=34.92+40.32)	47.25(=3.35+43.9)	0.3125	0.4223	0.8495
	C	0.0	1.0	1.0	90.97	-21.84	-7.42	23.08	199	64.42(=26.1+38.32)	78.41(=38.09+40.32)	96.11(=52.21+43.9)	0.2696	0.3282	0.8853
$Y_N = 40.32$	V (B)	0.0	0.0	1.0	71.95	16.35	-38.08	41.45	293	47.02(=8.7+38.32)	43.58(=3.26+40.32)	92.94(=49.04+43.9)	0.2562	0.2375	0.4921
	M	1.0	0.0	1.0	78.32	37.92	-27.29	46.73	324	66.76(=28.44+38.32)	53.75(=13.43+40.32)	93.23(=49.33+43.9)	0.3123	0.2515	0.6069
$L^*_N = 69.7$	N	0.0	0.0	0.0	69.7	0.0	0.0	0.0	0	38.32(=0.0+38.32)	40.32(=0.0+40.32)	43.9(=0.0+43.9)	0.3127	0.329	0.4552
	W	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0	84.18(=45.86+38.32)	88.57(=48.25+40.32)	96.43(=52.53+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(=0.0+38.32)	40.32(=0.0+40.32)	43.9(=0.0+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(=45.86+38.32)	88.57(=48.25+40.32)	96.43(=52.53+43.9)	0.3127	0.329	1.0

JE110-7N, Colorimetric data of LCD Luminous System LECD_00a for CIE standard illuminant D65; LECD-System; Page: 3/3

TUB-test chart JE11; 8 basic colors OYLCVMNW, LECD00

Calculation of CIE data for LECD display for 8 reflections

input: $olv^* setrgbcolor$

output: no change compared to input