

Interpretation $rgb \rightarrow olv^*$ and CIELAB data of a 48 step device hue circle
for a LECD low glossy display with the luminance reflection $L_r=0\%$ compared to the white reference (100%)
48 step device hue circle with six device hues $OYLCVM$: $h_{ab,a} = 46.0, 101.2, 131.0, 196.6, 306.1, 326.8$
comparison with four elementary hues $RJGB$: $h_{ab,a} = 25.5, 92.3, 162.2, 271.7$, and $C^*M^* = 217.0, 328.6$
9 step equidistant grey scale: $L^* = 0.0, 11.9, 23.9, 35.8, 47.7, 59.6, 71.6, 83.5, 95.4$

d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{M,a,d}$	$rgb \rightarrow olv^*_{Ma}$	d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{M,a,d}$	$rgb \rightarrow olv^*_{Ma}$
o00v=O	30.0	57.5 55.6 82.0 99.1 55.8	1.000 0.000 0.000	c00v=C	210.0	85.0 -68.2 33.7 76.2 153.7	0.000 1.000 1.000
o12y	36.6	58.5 52.8 82.3 97.8 57.3	1.000 0.125 0.000	c12v	216.6	67.3 -14.7 -46.0 48.5 252.2	0.000 0.875 1.000
o25y	43.9	61.3 45.6 83.6 95.2 61.4	1.000 0.250 0.000	c25v	223.9	43.3 38.6 -86.0 94.3 294.2	0.000 0.500 1.000
o37y	51.8	64.9 36.5 85.4 92.9 66.9	1.000 0.375 0.000	c37v	231.8	29.9 78.3 -108.4 133.8 305.8	0.000 0.625 1.000
o50y	60.0	69.3 25.8 88.3 92.0 73.7	1.000 0.500 0.000	c50v	240.0	31.5 80.3 -105.4 132.6 307.3	0.000 0.500 1.000
o62y	68.2	74.7 13.8 92.4 93.4 81.5	1.000 0.625 0.000	c62v	248.2	34.9 81.3 -99.6 128.6 309.2	0.000 0.375 1.000
o75y	76.1	81.5 -0.2 98.3 98.3 90.2	1.000 0.750 0.000	c75v	256.1	38.0 82.5 -94.1 125.2 311.2	0.000 0.250 1.000
o87y	83.4	91.8 -19.3 107.8 109.6 100.2	1.000 0.875 0.000	c87v	263.4	41.8 80.4 -89.5 122.8 313.1	0.000 0.125 1.000
y00l=Y	90.0	90.1 -36.6 104.6 110.8 109.3	1.000 1.000 0.000	v00m=V	270.0	40.9 84.6 -87.7 121.9 313.9	0.000 0.000 1.000
y12l	96.6	88.6 -46.3 102.3 112.3 114.4	0.875 1.000 0.000	v12m	276.6	42.1 84.8 -87.3 121.7 314.1	0.125 0.000 1.000
y25l	103.9	87.7 -52.2 101.2 113.9 117.8	0.750 1.000 0.000	v25m	283.9	42.8 85.2 -86.1 121.2 314.7	0.250 0.000 1.000
y37l	111.8	87.1 -56.9 100.1 115.2 119.7	0.625 1.000 0.000	v37m	291.8	43.7 85.8 -84.5 120.5 315.4	0.375 0.000 1.000
y50l	120.0	86.7 -60.2 99.6 116.4 121.2	0.500 1.000 0.000	v50m	300.0	44.9 86.5 -82.4 119.6 316.4	0.500 0.000 1.000
y62l	128.2	86.3 -62.9 99.0 117.4 122.5	0.375 1.000 0.000	v62m	308.2	46.3 87.3 -79.9 118.4 317.5	0.625 0.000 1.000
y75l	136.1	86.1 -64.9 98.7 118.8 123.4	0.250 1.000 0.000	v75m	316.1	48.3 88.9 -76.6 117.4 319.2	0.750 0.000 1.000
y87l	143.4	85.9 -66.5 98.5 118.2 124.1	0.125 1.000 0.000	v87m	323.4	50.6 90.6 -72.8 116.2 321.2	0.875 0.000 1.000
l00c=L	150.0	85.8 -67.1 98.4 119.1 124.3	0.000 1.000 0.000	m00o=M	330.0	55.2 94.6 -65.0 114.8 325.5	1.000 0.000 1.000
l12c	156.6	85.6 -68.9 98.1 119.9 125.1	0.000 1.000 0.125	m12o	336.6	53.8 89.8 -36.3 96.9 337.9	1.000 0.000 0.875
l25c	163.9	85.2 -72.4 97.5 121.5 126.6	0.000 1.000 0.250	m25o	343.9	52.9 87.2 -24.5 90.5 344.3	1.000 0.000 0.500
l37c	171.8	84.8 -75.4 97.1 123.0 127.9	0.000 1.000 0.375	m37o	351.8	52.2 84.9 -12.6 85.8 351.5	1.000 0.000 0.625
l50c	180.0	84.5 -78.4 96.6 124.5 129.1	0.000 1.000 0.500	m50o	360.0	51.4 82.5 2.2 82.5 1.5	1.000 0.000 0.500
l62c	188.2	84.2 -81.5 96.1 126.1 130.3	0.000 1.000 0.625	m62o	368.2	50.8 80.0 24.3 83.6 16.9	1.000 0.000 0.375
l75c	196.1	84.0 -83.0 96.0 127.0 130.9	0.000 1.000 0.750	m75o	376.1	50.2 77.7 63.1 100.1 39.1	1.000 0.000 0.250
l87c	203.4	84.1 -82.0 85.3 118.4 133.9	0.000 1.000 0.875	m87o	383.4	52.5 69.5 80.5 106.3 49.2	1.000 0.000 0.125

KE840-3N, 1

Interpretation $rgb \rightarrow olv^*$ and CIELAB data of a 48 step device hue circle
for a LECD low glossy display with the luminance reflection $L_r=0.6\%$ compared to the white reference (100%)
48 step device hue circle with six device hues $OYLCVM$: $h_{ab,a} = 43.3, 101.4, 131.4, 196.6, 305.6, 326.8$
comparison with four elementary hues $RJGB$: $h_{ab,a} = 25.5, 92.3, 162.2, 271.7$, and $C^*M^* = 217.0, 328.6$
9 step equidistant grey scale: $L^* = 5.0, 16.3, 27.6, 38.9, 50.2, 61.5, 72.8, 84.1, 95.4$

d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{M,a,d}$	$rgb \rightarrow olv^*_{Ma}$	d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{M,a,d}$	$rgb \rightarrow olv^*_{Ma}$
o00y=O	30.0	56.5 58.6 74.5 94.8 51.8	1.000 0.000 0.000	c00v=C	210.0	85.0 -67.4 33.3 75.3 153.8	0.000 1.000 1.000
o12y	36.6	57.6 55.7 75.4 93.7 53.5	1.000 0.125 0.000	c12v	216.6	67.4 -14.2 -45.8 48.0 252.6	0.000 0.875 1.000
o25y	43.9	60.4 48.0 77.2 90.9 58.1	1.000 0.250 0.000	c25v	223.9	44.0 37.8 -84.8 92.9 294.0	0.000 0.500 1.000
o37y	51.8	64.3 38.1 80.2 88.8 64.6	1.000 0.375 0.000	c37v	231.8	31.3 75.0 -106.0 129.9 305.3	0.000 0.625 1.000
o50y	60.0	69.0 26.8 84.0 88.1 72.3	1.000 0.500 0.000	c50v	240.0	32.8 77.2 -103.2 129.0 306.8	0.000 0.500 1.000
o62y	68.2	74.5 14.5 88.7 89.9 80.7	1.000 0.625 0.000	c62v	248.2	35.9 78.6 -97.8 125.6 308.7	0.000 0.375 1.000
o75y	76.1	81.5 0.0 95.2 95.2 90.0	1.000 0.750 0.000	c75v	256.1	38.9 80.1 -92.7 122.6 310.8	0.000 0.250 1.000
o87y	83.4	91.9 -19.2 105.4 107.2 100.4	1.000 0.875 0.000	c87v	263.4	41.4 81.7 -88.4 120.5 312.7	0.000 0.125 1.000
y00l=Y	90.0	90.1 -36.5 102.2 108.5 109.7	1.000 1.000 0.000	v00m=V	270.0	42.4 82.4 -86.8 119.7 313.5	0.000 0.000 1.000
y12l	96.6	88.6 -46.2 99.8 110.0 114.9	0.875 1.000 0.000	v12m	276.6	42.7 82.6 -86.3 119.5 313.7	0.125 0.000 1.000
y25l	103.9	87.7 -52.0 98.7 111.6 117.8	0.750 1.000 0.000	v25m	283.9	43.4 83.1 -85.2 119.1 314.2	0.250 0.000 1.000
y37l	111.8	87.1 -56.7 97.7 113.0 120.2	0.625 1.000 0.000	v37m	291.8	44.3 83.7 -83.6 118.4 315.0	0.375 0.000 1.000
y50l	120.0	86.7 -59.9 97.1 114.1 121.7	0.500 1.000 0.000	v50m	300.0	45.5 84.6 -81.5 117.5 316.0	0.500 0.000 1.000
y62l	128.2	86.3 -62.7 96.5 115.1 123.0	0.375 1.000 0.000	v62m	308.2	46.9 85.5 -79.0 116.5 317.2	0.625 0.000 1.000
y75l	136.1	86.1 -64.6 96.2 115.9 123.9	0.250 1.000 0.000	v75m	316.1	48.8 87.2 -75.8 115.5 319.0	0.750 0.000 1.000
y87l	143.4	85.9 -66.1 96.0 116.6 124.6	0.125 1.000 0.000	v87m	323.4	51.1 89.0 -71.9 114.5 321.0	0.875 0.000 1.000
l00c=L	150.0	85.9 -66.7 95.9 116.9 124.9	0.000 1.000 0.000	m00o=M	330.0	55.6 93.2 -64.3 113.2 325.3	1.000 0.000 1.000
l12c	156.6	85.7 -68.4 95.6 117.6 125.6	0.000 1.000 0.125	m12o	336.6	54.3 88.4 -35.8 95.4 337.9	1.000 0.000 0.875
l25c	163.9	85.3 -71.7 95.1 119.2 127.1	0.000 1.000 0.250	m25o	343.9	53.4 85.8 -24.0 89.1 344.3	1.000 0.000 0.500
l37c	171.8	84.9 -74.6 94.6 120.6 128.3	0.000 1.000 0.375	m37o	351.8	52.7 83.5 -12.3 84.4 351.5	1.000 0.000 0.625
l50c	180.0	84.6 -77.5 94.2 122.1 129.5	0.000 1.000 0.500	m50o	360.0	52.0 81.1 2.2 81.1 1.5	1.000 0.000 0.500
l62c	188.2	84.3 -80.6 93.7 123.6 130.7	0.000 1.000 0.625	m62o	368.2	51.3 78.6 23.2 82.0 16.5	1.000 0.000 0.375
l75c	196.1	84.1 -82.1 93.6 124.5 131.3	0.000 1.000 0.750	m75o	376.1	50.8 76.1 57.2 95.2 36.9	1.000 0.000 0.250
l87c	203.4	84.2 -81.1 83.5 116.5 134.2	0.000 1.000 0.875	m87o	383.4	52.5 69.9 72.0 100.4 45.8	1.000 0.000 0.125

KE840-7N, 1

Interpretation $rgb \rightarrow olv^*$ and CIELAB data of a 48 step device hue circle
for a LECD low glossy display with the luminance reflection $L_r=1.2\%$ compared to the white reference (100%)
48 step device hue circle with six device hues $OYLCVM$: $h_{ab,a} = 41.1, 101.5, 131.8, 196.7, 305.0, 326.7$
comparison with four elementary hues $RJGB$: $h_{ab,a} = 25.5, 92.3, 162.2, 271.7$, and $C^*M^* = 217.0, 328.6$
9 step equidistant grey scale: $L^* = 10.4, 21.0, 31.7, 42.3, 52.9, 63.5, 74.2, 84.8, 95.4$

d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{M,a,d}$	$rgb \rightarrow olv^*_{Ma}$	d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*_{ab}, h_{ab}]_{M,a,d}$	$rgb \rightarrow olv^*_{Ma}$
o00v=O	30.0	55.9 60.5 68.6 91.5 48.6	1.000 0.000 0.000	c00v=C	210.0	85.1 -66.7 32.9 74.5 153.8	0.000 1.000 1.000
o12y	36.6	57.0 57.6 69.5 90.3 50.4	1.000 0.125 0.000	c12v	216.6	67.6 -13.8 -45.4 47.6 253.0	0.000 0.875 1.000
o25y	43.9	60.0 49.1 72.1 87.5 55.6	1.000 0.250 0.000	c25v	223.9	44.7 36.9 -83.5 91.4 293.8	0.000 0.500 1.000
o37y	51.8	64.0 39.3 75.8 85.4 62.6	1.000 0.375 0.000	c37v	231.8	32.6 72.0 -103.7 126.3 304.7	0.000 0.625 1.000
o50y	60.0	68.8 27.6 80.1 84.8 71.0	1.000 0.500 0.000	c50v	240.0	34.0 74.4 -101.2 125.6 306.3	0.000 0.500 1.000
o62y	68.2	74.4 15.1 85.4 86.7 80.0	1.000 0.625 0.000	c62v	248.2	36.9 76.0 -96.1 122.7 308.3	0.000 0.375 1.000
o75y	76.1	81.5 0.4 92.4 92.4 89.8	1.000 0.750 0.000	c75v	256.1	39.7 77.8 -91.3 120.0 310.4	0.000 0.250 1.000
o87y	83.4	91.9 -19.1 103.1 104.9 100.5	1.000 0.875 0.000	c87v	263.4	42.1 79.5 -87.4 118.2 312.3	0.000 0.125 1.000
y00l=Y	90.0	90.1 -36.3 99.9 106.3 110.0	1.000 1.000 0.000	v00m=V	270.0	43.0 80.2 -85.8 117.6 313.0	0.000 0.000 1.000
y12l	96.6	88.6 -46.0 97.5 107.8 115.3	0.875 1.000 0.000	v12m	276.6	43.3 80.5 -85.3 117.4 313.3	0.125 0.000 1.000
y25l	103.9	87.8 -51.9 96.4 109.5 118.3	0.750 1.000 0.000	v25m	283.9	43.9 81.0 -84.2 116.9 313.8	0.250 0.000 1.000
y37l	111.8	87.1 -56.4 95.4 110.9 120.6	0.625 1.000 0.000	v37m	291.8	44.9 81.7 -82.6 116.3 314.7	0.375 0.000 1.000
y50l	120.0	86.7 -59.6 94.8 112.0 122.2	0.500 1.000 0.000	v50m	300.0	46.1 82.7 -80.5 115.5 315.7	0.500 0.000 1.000
y62l	128.2	86.4 -62.3 94.2 113.0 123.5	0.375 1.000 0.000	v62m	308.2	47.5 83.8 -78.0 114.5 317.0	0.625 0.000 1.000
y75l	136.1	86.1 -64.2 93.9 113.8 124.4	0.250 1.000 0.000	v75m	316.1	49.4 85.5 -74.9 113.7 318.7	0.750 0.000 1.000
y87l	143.4	86.0 -65.7 93.7 114.7 125.1	0.125 1.000 0.000	v87m	323.4	51.6 87.4 -71.1 112.7 320.9	0.875 0.000 1.000
l00c=L	150.0	85.9 -66.3 93.6 114.7 125.3	0.000 1.000 0.000	m00o=M	330.0	56.0 91.8 -63.6 111.7 325.2	1.000 0.000 1.000
l12c	156.6	85.7 -68.0 93.3 115.5 126.1	0.000 1.000 0.125	m12o	336.6	54.8 87.0 -35.2 93.9 337.9	1.000 0.000 0.875
l25c	163.9	85.3 -71.1 92.8 116.9 127.5	0.000 1.000 0.250	m25o	343.9	53.9 84.4 -23.6 87.7 344.3	1.000 0.000 0.750
l37c	171.8	85.0 -73.9 92.3 118.3 128.7	0.000 1.000 0.375	m37o	351.8	53.2 82.1 -12.0 83.0 351.6	1.000 0.000 0.625
l50c	180.0	84.7 -76.7 91.9 119.8 129.9	0.000 1.000 0.500	m50o	360.0	52.5 79.7 2.1 79.8 1.5	1.000 0.000 0.500
l62c	188.2	84.4 -79.6 91.4 121.3 131.1	0.000 1.000 0.625	m62o	368.2	51.9 77.3 22.3 80.4 16.1	1.000 0.000 0.375
l75c	196.1	84.2 -81.1 91.3 122.2 131.7	0.000 1.000 0.750	m75o	376.1	51.4 74.6 52.7 91.4 35.2	1.000 0.000 0.250
l87c	203.4	84.3 -80.2 81.8 114.6 134.5	0.000 1.000 0.875	m87o	383.4	52.7 69.8 65.8 95.9 43.3	1.000 0.000 0.125

KE841-3N, 1

Interpretation $rgb \rightarrow olv^*$ and CIELAB data of a 48 step device hue circle
for a LECD low glossy display with the luminance reflection $L_r=2.5\%$ compared to the white reference (100%)
48 step device hue circle with six device hues $OYLCVM$: $h_{ab,a} = 38.2, 101.8, 132.5, 196.7, 304.1,$