

Interpretation $rgb \rightarrow olv^*$ and CIELAB data of a 48 step device hue circle
for a LECD low glossy display with the luminance reflection $L_r=5\%$ compared to the white reference (100%)
48 step device hue circle with six device hues $OYLCVM$: $h_{ab,a} = 34.5, 102.3, 133.6, 196.8, 302.4, 326.4$
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: $L^* = 26.6, 35.2, 43.8, 52.4, 61.0, 69.6, 78.2, 86.8, 95.4$

d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*, M^*]_{ab,ab,ab,ab,ab,ab}$	$rgb \rightarrow olv^*_{Ma}$	d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*, M^*]_{ab,ab,ab,ab,ab,ab}$	$rgb \rightarrow olv^*_{Ma}$
o00v=O	30.0	54.5	66.4	45.7	80.6	34.6	1.000 0.000 0.000
o12y	36.6	55.8	62.8	47.4	78.7	37.1	1.000 0.125 0.000
o25y	43.9	59.1	53.7	51.5	74.4	43.8	1.000 0.250 0.000
o37y	51.8	62.9	43.8	56.2	71.2	52.1	1.000 0.375 0.000
o50y	60.0	67.2	33.2	61.4	69.8	61.6	1.000 0.500 0.000
o62y	68.2	71.7	22.4	66.8	70.5	71.4	1.000 0.625 0.000
o75y	76.1	77.0	10.7	73.2	74.0	81.7	1.000 0.750 0.000
o87y	83.4	83.5	-2.4	81.0	81.1	91.7	1.000 0.875 0.000
y00l=Y	90.0	93.0	-20.2	92.5	94.7	102.4	1.000 1.000 0.000
y12l	96.6	90.4	-34.0	88.5	94.9	111.1	0.875 1.000 0.000
y25l	103.9	88.9	-43.7	86.1	96.5	116.9	0.750 1.000 0.000
y37l	111.8	87.7	-52.0	84.2	99.0	121.7	0.625 1.000 0.000
y50l	120.0	86.7	-59.0	82.8	101.7	125.5	0.500 1.000 0.000
y62l	128.2	86.0	-65.3	81.7	104.6	128.7	0.375 1.000 0.000
y75l	136.1	85.4	-70.2	80.8	107.1	131.0	0.250 1.000 0.000
y87l	143.4	84.9	-74.3	80.1	109.3	132.9	0.125 1.000 0.000
l00c=L	150.0	84.7	-76.0	79.8	110.3	133.6	0.000 1.000 0.000
l12c	156.6	84.8	-75.0	74.1	105.5	135.4	0.000 1.000 0.125
l25c	163.9	84.9	-72.3	62.3	95.5	139.3	0.000 1.000 0.250
l37c	171.8	85.1	-69.5	51.5	86.6	143.5	0.000 1.000 0.375
l50c	180.0	85.4	-66.1	40.9	77.8	148.3	0.000 1.000 0.500
l62c	188.2	85.6	-62.6	30.9	69.9	153.7	0.000 1.000 0.625
l75c	196.1	85.9	-58.6	20.8	62.3	160.5	0.000 1.000 0.750
l87c	203.4	86.4	-53.6	9.4	54.6	170.1	0.000 1.000 0.875

LE050-3N, 2

Interpretation $rgb \rightarrow olv^*$ and CIELAB data of a 48 step device hue circle
for a LECD low glossy display with the luminance reflection $L_r=10\%$ compared to the white reference (100%)
48 step device hue circle with six device hues $OYLCVM$: $h_{ab,a} = 30.5, 103.2, 135.3, 197.0, 300.0, 326.0$
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: $L^* = 37.9, 45.1, 52.2, 59.4, 66.6, 73.8, 81.0, 88.2, 95.4$

d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*, M^*]_{ab,ab,ab,ab,ab,ab}$	$rgb \rightarrow olv^*_{Ma}$	d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*, M^*]_{ab,ab,ab,ab,ab,ab}$	$rgb \rightarrow olv^*_{Ma}$
o00v=O	30.0	58.5	58.0	34.1	67.3	30.5	1.000 0.000 0.000
o12y	36.6	59.6	55.0	35.7	65.6	33.0	1.000 0.125 0.000
o25y	43.9	62.4	47.5	39.5	61.8	39.8	1.000 0.250 0.000
o37y	51.8	65.7	39.0	44.0	58.9	48.4	1.000 0.375 0.000
o50y	60.0	69.4	29.8	49.2	57.5	58.8	1.000 0.500 0.000
o62y	68.2	73.5	20.4	54.6	58.3	69.5	1.000 0.625 0.000
o75y	76.1	78.3	9.8	61.0	61.8	80.9	1.000 0.750 0.000
o87y	83.4	84.2	-2.2	68.9	69.0	91.9	1.000 0.875 0.000
y00l=Y	90.0	93.2	-18.9	80.6	82.9	103.3	1.000 1.000 0.000
y12l	96.6	90.7	-31.6	76.8	83.1	112.4	0.875 1.000 0.000
y25l	103.9	89.3	-40.4	74.5	84.8	118.5	0.750 1.000 0.000
y37l	111.8	88.2	-47.9	72.7	87.1	123.4	0.625 1.000 0.000
y50l	120.0	87.3	-54.2	71.3	89.6	127.3	0.500 1.000 0.000
y62l	128.2	86.6	-59.7	70.3	92.3	130.4	0.375 1.000 0.000
y75l	136.1	86.0	-64.1	69.4	94.5	132.7	0.250 1.000 0.000
y87l	143.4	85.6	-67.7	68.7	96.6	134.6	0.125 1.000 0.000
l00c=L	150.0	85.4	-69.2	68.5	97.4	135.3	0.000 1.000 0.000
l12c	156.6	85.5	-68.3	64.2	93.8	136.8	0.000 1.000 0.125
l25c	163.9	85.6	-65.9	55.0	85.9	140.2	0.000 1.000 0.250
l37c	171.8	85.8	-63.4	46.1	78.5	144.0	0.000 1.000 0.375
l50c	180.0	86.0	-60.4	37.0	70.9	148.5	0.000 1.000 0.500
l62c	188.2	86.3	-57.3	28.2	63.9	153.8	0.000 1.000 0.625
l75c	196.1	86.5	-53.8	19.1	57.2	160.4	0.000 1.000 0.750
l87c	203.4	87.0	-49.3	8.7	50.1	170.0	0.000 1.000 0.875

LE050-7N, 2

Interpretation $rgb \rightarrow olv^*$ and CIELAB data of a 48 step device hue circle
for a LECD low glossy display with the luminance reflection $L_r=20\%$ compared to the white reference (100%)
48 step device hue circle with six device hues $OYLCVM$: $h_{ab,a} = 26.5, 104.5, 137.5, 197.4, 296.7, 325.4$
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: $L^* = 51.9, 57.4, 62.8, 68.2, 73.7, 79.1, 84.5, 90.0, 95.4$

d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*, M^*]_{ab,ab,ab,ab,ab,ab}$	$rgb \rightarrow olv^*_{Ma}$	d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*, M^*]_{ab,ab,ab,ab,ab,ab}$	$rgb \rightarrow olv^*_{Ma}$
o00v=O	30.0	65.3	44.6	22.3	49.8	26.5	1.000 0.000 0.000
o12y	36.6	66.1	42.5	23.5	48.6	28.9	1.000 0.125 0.000
o25y	43.9	68.2	37.2	26.5	45.7	35.5	1.000 0.250 0.000
o37y	51.8	70.7	31.0	30.2	43.3	44.2	1.000 0.375 0.000
o50y	60.0	73.7	24.0	34.5	42.0	55.1	1.000 0.500 0.000
o62y	68.2	76.9	16.7	39.2	42.6	67.0	1.000 0.625 0.000
o75y	76.1	80.9	8.2	44.8	45.5	79.7	1.000 0.750 0.000
o87y	83.4	85.8	-1.8	52.0	52.0	92.1	1.000 0.875 0.000
y00l=Y	90.0	93.5	-16.3	62.8	64.9	104.6	1.000 1.000 0.000
y12l	96.6	91.3	-26.9	59.4	65.3	114.4	0.875 1.000 0.000
y25l	103.9	90.1	-34.1	57.4	66.8	120.8	0.750 1.000 0.000
y37l	111.8	89.2	-40.2	55.9	68.9	125.8	0.625 1.000 0.000
y50l	120.0	88.4	-45.2	54.6	71.0	129.6	0.500 1.000 0.000
y62l	128.2	87.8	-49.4	53.7	73.2	132.8	0.375 1.000 0.000
y75l	136.1	87.3	-52.9	53.0	74.9	135.0	0.250 1.000 0.000
y87l	143.4	87.0	-55.7	52.4	76.5	136.8	0.125 1.000 0.000
l00c=L	150.0	86.8	-56.9	52.1	77.2	137.5	0.000 1.000 0.000
l12c	156.6	86.9	-56.2	49.4	74.9	138.7	0.000 1.000 0.125
l25c	163.9	87.0	-54.3	43.2	69.5	141.5	0.000 1.000 0.250
l37c	171.8	87.2	-52.3	36.9	64.1	144.9	0.000 1.000 0.375
l50c	180.0	87.3	-50.0	30.1	58.4	149.0	0.000 1.000 0.500
l62c	188.2	87.5	-47.5	23.3	53.4	154.0	0.000 1.000 0.625
l75c	196.1	87.8	-44.7	16.0	47.6	160.4	0.000 1.000 0.750
l87c	203.4	88.1	-41.1	7.3	41.9	169.9	0.000 1.000 0.875

LE051-3N, 2

Interpretation $rgb \rightarrow olv^*$ and CIELAB data of a 48 step device hue circle
for a LECD low glossy display with the luminance reflection $L_r=40\%$ compared to the white reference (100%)
48 step device hue circle with six device hues $OYLCVM$: $h_{ab,a} = 23.2, 106.5, 139.9, 198.2, 293.2, 324.2$
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: $L^* = 69.7, 72.9, 76.1, 79.3, 82.5, 85.8, 89.0, 92.2, 95.4$

d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*, M^*]_{ab,ab,ab,ab,ab,ab}$	$rgb \rightarrow olv^*_{Ma}$	d_{Ma}	h_{rgb}	$[L^*, a^*, b^*, C^*, M^*]_{ab,ab,ab,ab,ab,ab}$	$rgb \rightarrow olv^*_{Ma}$
o00v=O	30.0	76.3	25.9	11.1	28.2	23.2	1.000 0.000 0.000
o12y	36.6	76.8	24.9	11.8	27.5	25.4	1.000 0.125 0.000
o25y	43.9	77.9	22.1	13.6	25.9	31.5	1.000 0.250 0.000
o37y	51.8	79.4	18.8	15.7	24.5	40.0	1.000 0.375 0.000
o50y	60.0	81.1	14.8	18.4	23.6	51.1	1.000 0.500 0.000
o62y	68.2	83.1	10.5	21.4	23.8	63.9	1.000 0.625 0.000
o75y	76.1	85.6	5.3	25.2	25.7	78.2	1.000 0.750 0.000
o87y	83.4	88.8	-1.2	30.1	30.1	92.4	1.000 0.875 0.000
y00l=Y	90.0	94.0	-11.2	38.0	39.6	106.6	1.000 1.000 0.000
y12l	96.6	92.6	-18.1	35.5	40.0	117.2	0.875 1.000 0.000
y25l	103.9	91.7	-22.7	34.1	41.1	123.7	0.750 1.000 0.000
y37l	111.8	91.1	-26.4	33.1	42.4	128.8	0.625 1.000 0.000
y50l	120.0	90.6	-29.4	32.2	43.7	132.5	0.500 1.000 0.000
y62l	128.2	90.2	-32.0	31.6	45.0	135.5	0.375 1.000 0.000
y75l	136.1	89.8	-33.9	31.0	46.1	137.6	0.250 1.000 0.000
y87l	143.4	89.6	-35.5	30.6	47.0	139.3	0.125 1.000 0.000
l00c=L	150.0	89.5	-36.2	30.5	47.4	140.0	0.000 1.000 0.000
l12c	156.6	89.5	-35.8	29.2	46.2	140.9	0.000 1.000 0.125
l25c	163.9	89.6	-34.7	26.1	43.5	143.2	0.000 1.000 0.250
l37c	171.8	89.7	-33.5	22.7	40.6	146.0	0.000 1.000 0.375
l50c	180.0	89.8	-32.1	18.9	37.4	149.6	0.000 1.000 0.500
l62c	188.2	90.0	-30.7	14.9	34.2	154.2	0.000 1.000 0.625
l75c	196.1	90.1	-29.0	10.4	30.9	160.3	0.000 1.000 0.750
l87c	203.4	90.4	-26.8	4.9	27.4	169.7	0.000 1.000 0.875

LE051-7N, 2

TUB-test chart LE05; 48 step LECD device hue circle
Interpretation $rgb \rightarrow olv^*$ and CIELAB data of colours Ma

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