Interpretation *rgb* −> *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**$_{ab}$, h_{ab}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			d_{Ma}	h_{rgb}	[*L**, *a**, *b**, *C**$_{ab}$, h_{ab}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			
o00y=O	30.0	56.1	62.1	47.8	78.3	37.6	1.000	0.000	0.000	c00v=C	210.0	85.6	−62.5	30.5	69.6	154.0	0.000	1.000	1.000	*C'*
o12y	36.6	57.0	59.4	49.1	77.1	39.6	1.000	0.125	0.000	c12v	216.6	68.7	−11.6	−43.5	45.2	255.0	0.000	0.875	1.000	
o25y	43.9	59.7	52.1	52.4	73.9	45.2	1.000	0.250	0.000	c25v	223.9	48.7	32.3	−76.8	83.4	292.8	0.000	0.750	1.000	
o37y	51.8	63.6	42.1	57.1	71.0	53.6	1.000	0.375	0.000	c37v	231.8	39.4	58.0	−92.2	109.1	302.2	0.000	0.625	1.000	
o50y	60.0	68.5	30.0	63.2	70.0	64.6	1.000	0.500	0.000	c50v	240.0	40.3	60.7	−90.5	109.1	303.8	0.000	0.500	1.000	*B*
o62y	68.2	74.2	17.1	70.1	72.1	76.3	1.000	0.625	0.000	c62v	248.2	42.4	63.4	−87.0	107.7	306.0	0.000	0.375	1.000	
o75y	76.1	81.5	1.7	78.9	78.9	88.7	1.000	0.750	0.000	c75v	256.1	44.3	65.8	−83.6	106.5	308.1	0.000	0.250	1.000	
o87y	83.4	92.2	−18.5	91.7	93.6	101.4	1.000	0.875	0.000	c87v	263.4	45.9	67.7	−80.9	105.5	309.9	0.000	0.125	1.000	*J*
y00l=Y	90.0	90.2	−35.3	88.2	95.1	111.9	1.000	1.000	0.000	v00m=V	270.0	46.5	68.6	−79.8	105.3	310.6	0.000	0.000	1.000	
y12l	96.6	88.7	−44.7	85.9	96.9	117.6	0.875	1.000	0.000	v12m	276.6	46.8	69.0	−79.3	105.2	311.0	0.125	0.000	1.000	
y25l	103.9	87.9	−50.4	84.6	98.5	120.8	0.750	1.000	0.000	v25m	283.9	47.5	69.8	−78.3	105.0	311.7	0.250	0.000	1.000	
y37l	111.8	87.3	−54.5	83.8	100.0	123.1	0.625	1.000	0.000	v37m	291.8	48.3	70.9	−76.9	104.7	312.6	0.375	0.000	1.000	
y50l	120.0	86.9	−57.5	83.1	101.1	124.7	0.500	1.000	0.000	v50m	300.0	49.4	72.3	−74.9	104.2	313.9	0.500	0.000	1.000	
y62l	128.2	86.6	−59.9	82.6	102.1	126.0	0.375	1.000	0.000	v62m	308.2	50.8	73.9	−72.6	103.7	315.5	0.625	0.000	1.000	
y75l	136.1	86.4	−61.6	82.4	102.9	126.8	0.250	1.000	0.000	v75m	316.1	52.5	76.1	−69.7	103.2	317.5	0.750	0.000	1.000	
y87l	143.4	86.3	−63.0	82.1	103.6	127.5	0.125	1.000	0.000	v87m	323.4	54.6	78.7	−66.2	102.9	319.9	0.875	0.000	1.000	
l00c=L	150.0	86.2	−63.5	82.0	103.8	127.8	0.000	1.000	0.000	m00o=M	330.0	58.5	83.8	−59.5	102.8	324.6	1.000	0.000	1.000	*M'*
l12c	156.6	86.0	−64.8	81.8	104.4	128.4	0.000	1.000	0.125	m12o	336.6	57.6	79.5	−32.2	85.8	337.9	1.000	0.000	0.875	
l25c	163.9	85.8	−67.1	81.4	105.5	129.5	0.000	1.000	0.250	m25o	343.9	56.8	76.8	−21.1	79.6	344.6	1.000	0.000	0.750	
l37c	171.8	85.5	−69.4	81.0	106.7	130.6	0.000	1.000	0.375	m37o	351.8	56.2	74.5	−10.5	75.2	351.9	1.000	0.000	0.625	
l50c	180.0	85.2	−71.8	80.5	108.0	131.8	0.000	1.000	0.500	m50o	360.0	55.7	72.1	1.9	72.1	1.5	1.000	0.000	0.500	
l62c	188.2	84.9	−74.4	80.1	109.4	132.9	0.000	1.000	0.625	m62o	368.2	55.1	69.8	17.8	72.0	14.3	1.000	0.000	0.375	
l75c	196.1	84.8	−75.7	79.9	110.1	133.5	0.000	1.000	0.750	m75o	376.1	54.6	67.1	37.9	77.1	29.5	1.000	0.000	0.250	*R*
l87c	203.4	84.8	−74.8	72.9	104.5	135.8	0.000	1.000	0.875	m87o	383.4	55.1	64.7	46.5	79.7	35.7	1.000	0.000	0.125	*G*

KE850−3X, 2

Interpretation *rgb* −> *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**$_{ab}$, h_{ab}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			d_{Ma}	h_{rgb}	[*L**, *a**, *b**, *C**$_{ab}$, h_{ab}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			
o00y=O	30.0	65.4	44.4	22.4	49.7	26.8	1.000	0.000	0.000	c00v=C	210.0	87.6	−47.2	22.3	52.3	154.8	0.000	1.000	1.000	*C'*
o12y	36.6	65.6	43.8	22.7	49.3	27.4	1.000	0.125	0.000	c12v	216.6	73.6	−6.2	−35.5	36.2	260.0	0.000	0.875	1.000	
o25y	43.9	66.5	41.6	24.1	48.1	30.1	1.000	0.250	0.000	c25v	223.9	61.4	20.6	−55.5	59.3	290.3	0.000	0.750	1.000	
o37y	51.8	68.8	35.8	27.4	45.1	37.4	1.000	0.375	0.000	c37v	231.8	57.0	31.3	−62.6	70.0	296.5	0.000	0.625	1.000	*B*
o50y	60.0	72.3	27.4	32.6	42.6	49.9	1.000	0.500	0.000	c50v	240.0	57.3	33.0	−62.0	70.3	298.0	0.000	0.500	1.000	
o62y	68.2	76.7	17.1	38.9	42.5	66.2	1.000	0.625	0.000	c62v	248.2	58.1	35.3	−60.7	70.3	300.1	0.000	0.375	1.000	
o75y	76.1	83.2	3.9	48.4	48.5	85.4	1.000	0.750	0.000	c75v	256.1	58.8	37.2	−59.4	70.2	302.0	0.000	0.250	1.000	
o87y	83.4	93.2	−15.5	62.5	64.4	104.0	1.000	0.875	0.000	c87v	263.4	59.4	38.7	−58.4	70.2	303.5	0.000	0.125	1.000	*J*
y00l=Y	90.0	90.9	−29.7	58.7	65.9	116.9	1.000	1.000	0.000	v00m=V	270.0	59.6	39.3	−58.1	70.2	304.0	0.000	0.000	1.000	
y12l	96.6	89.6	−37.2	56.7	67.9	123.4	0.875	1.000	0.000	v12m	276.6	59.8	39.7	−57.8	70.2	304.4	0.125	0.000	1.000	
y25l	103.9	89.0	−41.4	55.6	69.4	126.7	0.750	1.000	0.000	v25m	283.9	60.1	40.7	−57.1	70.2	305.4	0.250	0.000	1.000	
y37l	111.8	88.6	−44.3	54.9	70.6	129.0	0.625	1.000	0.000	v37m	291.8	60.7	42.1	−56.3	70.3	306.7	0.375	0.000	1.000	
y50l	120.0	88.3	−46.3	54.4	71.5	130.5	0.500	1.000	0.000	v50m	300.0	61.3	43.8	−55.2	70.6	308.4	0.500	0.000	1.000	
y62l	128.2	88.0	−47.9	54.1	72.3	131.6	0.375	1.000	0.000	v62m	308.2	62.2	46.0	−53.7	70.8	310.5	0.625	0.000	1.000	
y75l	136.1	87.9	−49.0	53.8	72.9	132.4	0.250	1.000	0.000	v75m	316.1	63.3	48.7	−51.8	71.1	313.2	0.750	0.000	1.000	
y87l	143.4	87.8	−49.9	53.7	73.3	133.0	0.125	1.000	0.000	v87m	323.4	64.7	52.2	−49.4	71.9	316.5	0.875	0.000	1.000	
l00c=L	150.0	87.7	−50.1	53.6	73.4	133.1	0.000	1.000	0.000	m00o=M	330.0	67.4	58.3	−45.0	73.7	322.2	1.000	0.000	1.000	*M'*
l12c	156.6	87.7	−50.6	53.5	73.7	133.4	0.000	1.000	0.125	m12o	336.6	67.3	55.7	−22.7	60.2	337.7	1.000	0.000	0.875	
l25c	163.9	87.5	−51.6	53.3	74.3	134.2	0.000	1.000	0.250	m25o	343.9	66.7	53.2	−13.9	55.0	345.2	1.000	0.000	0.750	
l37c	171.8	87.3	−52.9	53.0	74.9	135.0	0.000	1.000	0.375	m37o	351.8	66.4	51.2	−6.4	51.6	352.8	1.000	0.000	0.625	
l50c	180.0	87.1	−54.2	52.7	75.7	135.9	0.000	1.000	0.500	m50o	360.0	66.0	49.2	1.2	49.2	1.4	1.000	0.000	0.500	
l62c	188.2	86.9	−55.8	52.4	76.6	136.9	0.000	1.000	0.625	m62o	368.2	65.7	47.4	9.2	48.3	11.0	1.000	0.000	0.375	
l75c	196.1	86.8	−56.6	52.2	77.1	137.4	0.000	1.000	0.750	m75o	376.1	65.5	45.8	16.7	48.8	20.0	1.000	0.000	0.250	*R*
l87c	203.4	86.9	−56.0	49.0	74.5	138.9	0.000	1.000	0.875	m87o	383.4	65.3	44.8	21.4	49.6	25.5	1.000	0.000	0.125	*G*

KE851−3X, 2

Interpretation *rgb* −> *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**$_{ab}$, h_{ab}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			d_{Ma}	h_{rgb}	[*L**, *a**, *b**, *C**$_{ab}$, h_{ab}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			
o00y=O	30.0	59.1	56.2	35.1	66.3	31.9	1.000	0.000	0.000	c00v=C	210.0	86.3	−57.1	27.5	63.5	154.3	0.000	1.000	1.000	*C'*
o12y	36.6	59.4	55.4	35.5	65.8	32.7	1.000	0.125	0.000	c12v	216.6	70.3	−9.5	−41.0	42.2	256.9	0.000	0.875	1.000	
o25y	43.9	61.5	49.8	38.5	62.9	37.7	1.000	0.250	0.000	c25v	223.9	53.4	27.6	−68.8	74.2	291.8	0.000	0.750	1.000	
o37y	51.8	64.8	41.4	43.0	59.6	46.1	1.000	0.375	0.000	c37v	231.8	46.4	45.9	−80.4	92.6	299.7	0.000	0.625	1.000	*B*
o50y	60.0	69.3	30.2	49.0	57.6	58.3	1.000	0.500	0.000	c50v	240.0	47.0	48.4	−79.2	92.9	301.4	0.000	0.500	1.000	
o62y	68.2	74.7	17.9	56.4	59.1	72.4	1.000	0.625	0.000	c62v	248.2	48.4	51.2	−76.8	92.4	303.6	0.000	0.375	1.000	
o75y	76.1	81.9	2.9	66.0	66.1	87.5	1.000	0.750	0.000	c75v	256.1	49.7	53.6	−74.6	91.9	305.7	0.000	0.250	1.000	
o87y	83.4	92.6	−17.5	80.0	81.9	102.4	1.000	0.875	0.000	c87v	263.4	50.8	55.6	−72.7	91.6	307.4	0.000	0.125	1.000	*J*
y00l=Y	90.0	90.4	−33.6	76.3	83.5	113.8	1.000	1.000	0.000	v00m=V	270.0	51.2	56.2	−72.0	91.4	308.0	0.000	0.000	1.000	
y12l	96.6	89.0	−42.5	74.1	85.4	119.9	0.875	1.000	0.000	v12m	276.6	51.4	56.7	−71.6	91.4	308.3	0.125	0.000	1.000	
y25l	103.9	88.2	−47.8	72.7	87.1	123.4	0.750	1.000	0.000	v25m	283.9	52.0	57.8	−70.6	91.4	309.3	0.250	0.000	1.000	
y37l	111.8	87.7	−51.3	72.0	88.5	125.5	0.625	1.000	0.000	v37m	291.8	52.7	59.2	−69.5	91.3	310.4	0.375	0.000	1.000	
y50l	120.0	87.3	−54.1	71.4	89.6	127.2	0.500	1.000	0.000	v50m	300.0	53.7	60.8	−67.9	91.3	311.8	0.500	0.000	1.000	
y62l	128.2	87.1	−56.1	71.0	90.6	128.4	0.375	1.000	0.000	v62m	308.2	54.9	62.9	−65.8	91.1	313.7	0.625	0.000	1.000	
y75l	136.1	86.9	−57.6	70.7	91.3	129.2	0.250	1.000	0.000	v75m	316.1	56.3	65.4	−63.3	91.0	315.9	0.750	0.000	1.000	
y87l	143.4	86.7	−58.8	70.5	91.9	129.9	0.125	1.000	0.000	v87m	323.4	58.2	68.6	−60.2	91.3	318.7	0.875	0.000	1.000	
l00c=L	150.0	86.7	−59.3	70.4	92.1	130.1	0.000	1.000	0.000	m00o=M	330.0	61.7	74.3	−54.4	92.1	323.8	1.000	0.000	1.000	*M'*
l12c	156.6	86.6	−60.1	70.2	92.5	130.6	0.000	1.000	0.125	m12o	336.6	61.1	70.5	−28.7	76.2	337.8	1.000	0.000	0.875	
l25c	163.9	86.3	−61.8	69.9	93.3	131.5	0.000	1.000	0.250	m25o	343.9	60.4	67.8	−18.3	70.3	344.8	1.000	0.000	0.750	
l37c	171.8	86.1	−63.7	69.5	94.3	132.5	0.000	1.000	0.375	m37o	351.8	59.9	65.6	−8.8	66.2	352.3	1.000	0.000	0.625	
l50c	180.0	85.8	−65.6	69.2	95.4	133.5	0.000	1.000	0.500	m50o	360.0	59.4	63.4	1.6	63.4	1.4	1.000	0.000	0.500	
l62c	188.2	85.6	−67.8	68.7	96.6	134.6	0.000	1.000	0.625	m62o	368.2	59.0	61.2	13.9	62.7	12.8	1.000	0.000	0.375	
l75c	196.1	85.5	−68.9	68.6	97.3	135.2	0.000	1.000	0.750	m75o	376.1	58.6	59.0	27.2	65.0	24.7	1.000	0.000	0.250	*R*
l87c	203.4	85.5	−68.1	63.4	93.1	137.1	0.000	1.000	0.875	m87o	383.4	58.6	57.7	34.3	67.1	30.8	1.000	0.000	0.125	*G*

KE850−7X, 2

Interpretation *rgb* −> *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**$_{ab}$, h_{ab}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			d_{Ma}	h_{rgb}	[*L**, *a**, *b**, *C**$_{ab}$, h_{ab}]$_{Ma,d}$					rgb −> olv*$_{Ma}$			
o00y=O	30.0	76.3	26.0	10.7	28.2	22.3	1.000	0.000	0.000	c00v=C	210.0	90.0	−30.3	13.8	33.4	155.7	0.000	1.000	1.000	*C'*
o12y	36.6	76.3	25.9	11.1	28.2	23.1	1.000	0.125	0.000	c12v	216.6	80.4	−2.2	−24.4	24.6	264.6	0.000	0.875	1.000	
o25y	43.9	76.6	25.2	11.6	27.7	24.7	1.000	0.250	0.000	c25v	223.9	73.9	11.7	−34.6	36.6	288.5	0.000	0.750	1.000	
o37y	51.8	77.6	22.9	13.1	26.4	29.8	1.000	0.375	0.000	c37v	231.8	72.0	16.0	−37.7	41.1	293.0	0.000	0.625	1.000	*B*
o50y	60.0	79.4	18.6	15.9	24.5	40.5	1.000	0.500	0.000	c50v	240.0	72.1	16.9	−37.6	41.3	294.1	0.000	0.500	1.000	
o62y	68.2	82.2	12.5	20.2	23.8	58.3	1.000	0.625	0.000	c62v	248.2	72.4	18.1	−37.0	41.3	295.9	0.000	0.375	1.000	
o75y	76.1	86.5	3.7	26.7	26.9	82.2	1.000	0.750	0.000	c75v	256.1	72.7	19.1	−36.5	41.3	297.5	0.000	0.250	1.000	
o87y	83.4	94.0	−11.1	38.0	39.6	106.4	1.000	0.875	0.000	c87v	263.4	72.9	19.8	−36.2	41.3	298.6	0.000	0.125	1.000	*J*
y00l=Y	90.0	92.1	−20.9	34.8	40.6	121.2	1.000	1.000	0.000	v00m=V	270.0	73.0	20.0	−36.0	41.3	299.0	0.000	0.000	1.000	
y12l	96.6	91.2	−25.8	33.3	42.2	127.9	0.875	1.000	0.000	v12m	276.6	73.1	20.3	−35.9	41.3	299.4	0.125	0.000	1.000	
y25l	103.9	90.8	−28.2	32.6	43.2	130.9	0.750	1.000	0.000	v25m	283.9	73.3	21.0	−35.6	41.4	300.5	0.250	0.000	1.000	
y37l	111.8	90.5	−29.8	32.1	43.9	133.0	0.625	1.000	0.000	v37m	291.8	73.5	21.9	−35.1	41.5	301.8	0.375	0.000	1.000	
y50l	120.0	90.3	−31.0	31.9	44.5	134.3	0.500	1.000	0.000	v50m	300.0	73.8	23.1	−34.6	41.7	303.7	0.500	0.000	1.000	
y62l	128.2	90.2	−31.8	31.6	45.0	135.3	0.375	1.000	0.000	v62m	308.2	74.3	24.6	−33.9	42.0	305.9	0.625	0.000	1.000	
y75l	136.1	90.1	−32.4	31.5	45.2	135.9	0.250	1.000	0.000	v75m	316.1	74.9	26.7	−32.9	42.4	309.0	0.750	0.000	1.000	
y87l	143.4	90.0	−32.7	31.4	45.4	136.3	0.125	1.000	0.000	v87m	323.4	75.7	29.4	−31.5	43.1	312.9	0.875	0.000	1.000	
l00c=L	150.0	90.0	−32.9	31.4	45.5	136.4	0.000	1.000	0.000	m00o=M	330.0	77.2	34.2	−29.1	45.0	319.5	1.000	0.000	1.000	*M'*
l12c	156.6	90.0	−33.1	31.3	45.6	136.7	0.000	1.000	0.125	m12o	336.6	77.4	33.5	−13.7	36.2	337.6	1.000	0.000	0.875	
l25c	163.9	89.9	−33.6	31.2	45.9	137.2	0.000	1.000	0.250	m25o	343.9	77.1	31.6	−7.9	32.6	345.8	1.000	0.000	0.750	
l37c	171.8	89.8	−34.1	31.0	46.2	137.9	0.000	1.000	0.375	m37o	351.8	76.9	30.2	−3.4	30.4	353.4	1.000	0.000	0.625	
l50c	180.0	89.7	−34.8	30.8	46.6	138.6	0.000	1.000	0.500	m50o	360.0	76.7	29.0	0.7	29.0	1.3	1.000	0.000	0.500	
l62c	188.2	89.6	−35.6	30.6	47.0	139.4	0.000	1.000	0.625	m62o	368.2	76.5	27.8	4.6	28.2	9.3	1.000	0.000	0.375	
l75c	196.1	89.5	−36.0	30.5	47.3	139.8	0.000	1.000	0.750	m75o	376.1	76.4	26.9	7.9	28.0	16.3	1.000	0.000	0.250	*R*
l87c	203.4	89.5	−35.7	29.0	46.1	141.0	0.000	1.000	0.875	m87o	383.4	76.3	26.2	10.2	28.1	21.3	1.000	0.000	0.125	*G*

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