Interpretation *rgb* −> *olv and CIELAB data of a 48 step device hue circle**
for a sRGB display with the luminance reflection L_r=5% compared to the white reference (100%)
48 step device hue circle with six device hues *OYLCVM:* $h_{ab,a}$ = 31.9, 103.6, 137.6, 196.5, 302.7, 327.8
Comparison with four elementary hues *RJGB:* $h_{ab,a}$ = 25.4, 92.3, 162.2, 271.7

Code	L*	a*a	b*a	C*ab	hab,a	rgb −> olv*	Code	L*	a*a	b*a	C*ab	hab,a	rgb −> olv*
o00y=O	54.8	66.8	41.6	78.7	**31.9**	**1.00 0.00 0.00**	*c00v=C*	87.4	−42.7	−12.7	44.6	**196.5**	**0.00 1.00 1.00**
o12y	55.7	64.4	42.6	77.2	**33.5**	**1.00 0.12 0.00**	*c12v*	79.1	−29.5	−25.1	38.8	**220.4**	**0.00 0.87 1.00**
o25y	57.8	58.5	45.0	73.8	**37.5**	**1.00 0.25 0.00**	*c25v*	71.0	−15.3	−37.6	40.6	**247.8**	**0.00 0.75 1.00**
o37y	61.4	49.2	48.8	69.3	**44.7**	**1.00 0.37 0.00**	*c37v*	63.2	−0.1	−49.9	49.9	**269.8**	**0.00 0.62 1.00** B
o50y	66.2	37.1	53.8	65.4	**55.3**	**1.00 0.50 0.00**	*c50v*	55.9	15.5	−61.5	63.4	**284.1**	**0.00 0.50 1.00**
o62y	71.9	23.4	59.7	64.2	**68.5**	**1.00 0.62 0.00**	*c62v*	49.5	30.7	−71.9	78.2	**293.1**	**0.00 0.37 1.00**
o75y	78.4	9.0	66.2	66.8	**82.2**	**1.00 0.75 0.00** J	*c75v*	44.3	43.8	−80.3	91.4	**298.6**	**0.00 0.25 1.00**
o87y	85.4	−5.3	72.9	73.1	**94.2**	**1.00 0.87 0.00**	*c87v*	41.1	52.7	−85.7	100.6	**301.5**	**0.00 0.12 1.00**
y00l=Y	92.8	−19.4	79.8	82.1	**103.6**	**1.00 1.00 0.00**	*v00m=V*	39.7	56.6	−88.0	104.7	**302.7**	**0.00 0.00 1.00**
y12l	90.7	−30.8	77.1	83.0	**111.8**	**0.87 1.00 0.00**	*v12m*	40.1	57.2	−87.3	104.4	**303.2**	**0.12 0.00 1.00**
y25l	88.9	−41.7	74.7	85.6	**119.1**	**0.75 1.00 0.00**	*v25m*	41.1	58.7	−85.5	103.8	**304.4**	**0.25 0.00 1.00**
y37l	87.4	−51.5	72.8	89.2	**125.2**	**0.62 1.00 0.00**	*v37m*	42.9	61.3	−82.5	102.8	**306.5**	**0.37 0.00 1.00**
y50l	86.3	−60.0	71.3	93.1	**130.0**	**0.50 1.00 0.00**	*v50m*	45.4	64.7	−78.3	101.6	**309.5**	**0.50 0.00 1.00**
y62l	85.4	−66.7	70.1	96.8	**133.5**	**0.37 1.00 0.00**	*v62m*	48.5	68.9	−73.1	100.5	**313.3**	**0.62 0.00 1.00**
y75l	84.8	−71.5	69.3	99.6	**135.8**	**0.25 1.00 0.00**	*v75m*	52.2	73.8	−67.0	99.7	**317.7**	**0.75 0.00 1.00**
y87l	84.5	−74.3	68.9	101.3	**137.1**	**0.12 1.00 0.00**	*v87m*	56.2	79.0	−60.3	99.4	**322.6**	**0.87 0.00 1.00**
l00c=L	84.3	−75.4	68.7	102.0	**137.6**	**0.00 1.00 0.00**	*m00o=M*	60.6	84.6	−53.1	99.9	**327.8**	**1.00 0.00 1.00**
l12c	84.4	−74.8	66.3	100.0	**138.4**	**0.00 1.00 0.12**	*m12o*	59.2	80.4	−39.3	89.5	**333.9**	**1.00 0.00 0.87**
l25c	84.5	−73.4	60.6	95.2	**140.4**	**0.00 1.00 0.25**	*m25o*	57.9	76.8	−25.2	80.8	**341.7**	**1.00 0.00 0.75**
l37c	84.7	−71.0	51.7	87.9	**143.9**	**0.00 1.00 0.37**	*m37o*	56.9	73.6	−10.8	74.4	**351.6**	**1.00 0.00 0.62**
l50c	85.0	−67.5	40.6	78.8	**148.9**	**0.00 1.00 0.50**	*m50o*	56.1	71.1	3.4	71.2	**2.7**	**1.00 0.00 0.50**
l62c	85.4	−62.8	28.0	68.8	**155.9**	**0.00 1.00 0.62** G	*m62o*	55.5	69.2	17.2	71.3	**13.9**	**1.00 0.00 0.37**
l75c	85.9	−57.0	14.7	58.9	**165.5**	**0.00 1.00 0.75**	*m75o*	55.1	67.9	29.1	73.9	**23.2**	**1.00 0.00 0.25** R
l87c	86.6	−50.3	1.0	50.3	**178.8**	**0.00 1.00 0.87**	*m87o*	54.9	67.1	37.7	77.0	**29.3**	**1.00 0.00 0.12**

KE210−3N, , Page 8/11, LAB*la4, adapted=not adapted

Interpretation *rgb* −> *olv and CIELAB data of a 48 step device hue circle**
for a sRGB display with the luminance reflection L_r=20% compared to the white reference (100%)
48 step device hue circle with six device hues *OYLCVM:* $h_{ab,a}$ = 24.9, 105.5, 140.4, 197.1, 297.2, 327.0
Comparison with four elementary hues *RJGB:* $h_{ab,a}$ = 25.4, 92.3, 162.2, 271.7

Code	L*	a*a	b*a	C*ab	hab,a	rgb −> olv*	Code	L*	a*a	b*a	C*ab	hab,a	rgb −> olv*
o00y=O	65.5	45.0	20.9	49.7	**24.9**	**1.00 0.00 0.00** R	*c00v=C*	88.9	−33.2	−10.2	34.7	**197.1**	**0.00 1.00 1.00**
o12y	66.0	43.6	21.7	48.7	**26.4**	**1.00 0.12 0.00**	*c12v*	82.5	−22.1	−19.9	29.7	**221.9**	**0.00 0.87 1.00**
o25y	67.4	40.3	23.5	46.6	**30.3**	**1.00 0.25 0.00**	*c25v*	76.4	−10.9	−29.1	31.1	**249.3**	**0.00 0.75 1.00**
o37y	69.7	34.6	26.6	43.7	**37.5**	**1.00 0.37 0.00**	*c37v*	70.9	0.0	−37.6	37.6	**269.8**	**0.00 0.62 1.00** B
o50y	73.0	26.8	30.9	41.0	**49.0**	**1.00 0.50 0.00**	*c50v*	66.1	9.9	−45.0	46.1	**282.4**	**0.00 0.50 1.00**
o62y	77.1	17.4	36.3	40.3	**64.3**	**1.00 0.62 0.00**	*c62v*	62.3	18.5	−51.2	54.4	**289.9**	**0.00 0.37 1.00**
o75y	81.9	6.9	42.4	43.0	**80.7**	**1.00 0.75 0.00** J	*c75v*	59.5	25.0	−55.6	61.0	**294.2**	**0.00 0.25 1.00**
o87y	87.4	−4.2	49.1	49.3	**94.9**	**1.00 0.87 0.00**	*c87v*	57.8	29.0	−58.3	65.1	**296.4**	**0.00 0.12 1.00**
y00l=Y	93.2	−15.6	56.2	58.4	**105.5**	**1.00 1.00 0.00**	*v00m=V*	57.1	30.6	−59.4	66.8	**297.2**	**0.00 0.00 1.00**
y12l	91.6	−24.5	53.8	59.1	**114.4**	**0.87 1.00 0.00**	*v12m*	57.3	31.2	−59.0	66.8	**297.8**	**0.12 0.00 1.00**
y25l	90.1	−32.6	51.7	61.2	**122.2**	**0.75 1.00 0.00**	*v25m*	57.8	32.7	−58.2	66.8	**299.3**	**0.25 0.00 1.00**
y37l	89.0	−39.8	50.0	64.0	**128.5**	**0.62 1.00 0.00**	*v37m*	58.7	35.3	−56.7	66.8	**301.9**	**0.37 0.00 1.00**
y50l	88.0	−45.8	48.7	66.9	**133.2**	**0.50 1.00 0.00**	*v50m*	60.0	38.9	−54.6	67.0	**305.5**	**0.50 0.00 1.00**
y62l	87.3	−50.4	47.7	69.4	**136.6**	**0.37 1.00 0.00**	*v62m*	61.8	43.5	−51.7	67.6	**310.0**	**0.62 0.00 1.00**
y75l	86.9	−53.7	47.0	71.4	**138.7**	**0.25 1.00 0.00**	*v75m*	63.9	48.8	−48.2	68.6	**315.3**	**0.75 0.00 1.00**
y87l	86.6	−55.5	46.6	72.5	**139.9**	**0.12 1.00 0.00**	*v87m*	66.4	54.6	−44.1	70.3	**321.0**	**0.87 0.00 1.00**
l00c=L	86.5	−56.3	46.5	73.0	**140.4**	**0.00 1.00 0.00**	*m00o=M*	69.2	60.9	−39.5	72.6	**327.0**	**1.00 0.00 1.00**
l12c	86.5	−55.9	45.2	71.9	**141.0**	**0.00 1.00 0.12**	*m12o*	68.2	57.1	−28.3	63.7	**333.5**	**1.00 0.00 0.87**
l25c	86.6	−55.0	42.1	69.3	**142.5**	**0.00 1.00 0.25**	*m25o*	67.4	53.8	−17.4	56.5	**342.0**	**1.00 0.00 0.75**
l37c	86.8	−53.3	36.9	64.9	**145.3**	**0.00 1.00 0.37**	*m37o*	66.8	51.0	−7.1	51.5	**352.0**	**1.00 0.00 0.62**
l50c	87.0	−50.9	29.8	59.0	**149.6**	**0.00 1.00 0.50**	*m50o*	66.3	48.7	2.1	48.8	**2.5**	**1.00 0.00 0.50**
l62c	87.3	−47.6	21.1	52.1	**156.0**	**0.00 1.00 0.62** G	*m62o*	65.9	47.1	10.0	48.1	**11.9**	**1.00 0.00 0.37**
l75c	87.8	−43.6	11.3	45.0	**165.3**	**0.00 1.00 0.75**	*m75o*	65.7	45.9	15.8	48.6	**19.0**	**1.00 0.00 0.25**
l87c	88.3	−38.7	0.8	38.7	**178.8**	**0.00 1.00 0.87**	*m87o*	65.5	45.3	19.4	49.3	**23.2**	**1.00 0.00 0.12**

KE211−3N, , Page 10/11, LAB*la6, adapted=not adapted

Interpretation *rgb* −> *olv and CIELAB data of a 48 step device hue circle**
for a sRGB display with the luminance reflection L_r=10% compared to the white reference (100%)
48 step device hue circle with six device hues *OYLCVM:* $h_{ab,a}$ = 28.4, 104.3, 138.8, 196.7, 300.3, 327.5
Comparison with four elementary hues *RJGB:* $h_{ab,a}$ = 25.4, 92.3, 162.2, 271.7

Code	L*	a*a	b*a	C*ab	hab,a	rgb −> olv*	Code	L*	a*a	b*a	C*ab	hab,a	rgb −> olv*
o00y=O	58.7	58.4	31.7	66.5	**28.4**	**1.00 0.00 0.00**	*c00v=C*	87.9	−39.4	−11.9	41.2	**196.7**	**0.00 1.00 1.00**
o12y	59.5	56.4	32.6	65.2	**30.0**	**1.00 0.12 0.00**	*c12v*	80.3	−26.9	−23.3	35.6	**220.9**	**0.00 0.87 1.00**
o25y	61.3	51.6	34.9	62.3	**34.0**	**1.00 0.25 0.00**	*c25v*	72.9	−13.7	−34.6	37.2	**248.4**	**0.00 0.75 1.00**
o37y	64.3	43.8	38.6	58.4	**41.4**	**1.00 0.37 0.00**	*c37v*	65.9	−0.1	−45.5	45.5	**269.8**	**0.00 0.62 1.00** B
o50y	68.5	33.4	43.7	55.0	**52.6**	**1.00 0.50 0.00**	*c50v*	59.6	13.3	−55.5	57.1	**283.4**	**0.00 0.50 1.00**
o62y	73.7	21.3	49.7	54.1	**66.7**	**1.00 0.62 0.00**	*c62v*	54.3	25.6	−64.1	69.0	**291.8**	**0.00 0.37 1.00**
o75y	79.6	8.3	56.4	57.0	**81.6**	**1.00 0.75 0.00** J	*c75v*	50.2	35.6	−70.7	79.2	**296.7**	**0.00 0.25 1.00**
o87y	86.1	−4.9	63.5	63.7	**94.4**	**1.00 0.87 0.00**	*c87v*	47.6	42.1	−74.8	85.9	**299.3**	**0.00 0.12 1.00**
y00l=Y	92.9	−18.1	70.8	73.0	**104.3**	**1.00 1.00 0.00**	*v00m=V*	46.6	44.9	−76.5	88.7	**300.3**	**0.00 0.00 1.00**
y12l	91.0	−28.7	68.1	73.9	**112.8**	**0.87 1.00 0.00**	*v12m*	46.9	45.6	−76.0	88.6	**300.9**	**0.12 0.00 1.00**
y25l	89.3	−38.6	65.8	76.3	**120.3**	**0.75 1.00 0.00**	*v25m*	47.7	47.2	−74.7	88.4	**302.3**	**0.25 0.00 1.00**
y37l	87.9	−47.4	64.0	79.6	**126.5**	**0.62 1.00 0.00**	*v37m*	49.1	50.0	−72.4	88.0	**304.6**	**0.37 0.00 1.00**
y50l	86.9	−55.0	62.4	83.2	**131.3**	**0.50 1.00 0.00**	*v50m*	51.0	53.9	−69.1	87.7	**307.9**	**0.50 0.00 1.00**
y62l	86.0	−60.9	61.3	86.5	**134.8**	**0.37 1.00 0.00**	*v62m*	53.5	58.6	−65.0	87.5	**312.0**	**0.62 0.00 1.00**
y75l	85.5	−65.1	60.6	89.0	**137.0**	**0.25 1.00 0.00**	*v75m*	56.5	64.0	−60.0	87.7	**316.8**	**0.75 0.00 1.00**
y87l	85.2	−67.6	60.1	90.5	**138.3**	**0.12 1.00 0.00**	*v87m*	59.9	69.8	−54.4	88.5	**322.0**	**0.87 0.00 1.00**
l00c=L	85.1	−68.6	60.0	91.1	**138.8**	**0.00 1.00 0.00**	*m00o=M*	63.7	75.9	−48.2	89.9	**327.5**	**1.00 0.00 1.00**
l12c	85.1	−68.1	58.1	89.5	**139.5**	**0.00 1.00 0.12**	*m12o*	62.4	71.8	−35.3	80.0	**333.7**	**1.00 0.00 0.87**
l25c	85.2	−66.9	53.5	85.7	**141.3**	**0.00 1.00 0.25**	*m25o*	61.4	68.1	−22.3	71.7	**341.8**	**1.00 0.00 0.75**
l37c	85.4	−64.7	46.2	79.5	**144.4**	**0.00 1.00 0.37**	*m37o*	60.5	65.1	−9.4	65.7	**351.7**	**1.00 0.00 0.62**
l50c	85.7	−61.6	36.7	71.7	**149.2**	**0.00 1.00 0.50**	*m50o*	59.8	62.6	2.9	62.6	**2.6**	**1.00 0.00 0.50**
l62c	86.1	−57.5	25.6	62.9	**155.9**	**0.00 1.00 0.62** G	*m62o*	59.3	60.7	14.1	62.3	**13.0**	**1.00 0.00 0.37**
l75c	86.5	−52.3	13.5	54.0	**165.4**	**0.00 1.00 0.75**	*m75o*	59.0	59.4	23.1	63.8	**21.3**	**1.00 0.00 0.25** R
l87c	87.2	−46.3	0.9	46.3	**178.8**	**0.00 1.00 0.87**	*m87o*	58.8	58.7	29.1	65.5	**26.3**	**1.00 0.00 0.12**

KE210−7N, , Page 9/11, LAB*la5, adapted=not adapted

Interpretation *rgb* −> *olv and CIELAB data of a 48 step device hue circle**
for a sRGB display with the luminance reflection L_r=40% compared to the white reference (100%)
48 step device hue circle with six device hues *OYLCVM:* $h_{ab,a}$ = 21.9, 107.3, 142.3, 197.9, 293.8, 326.0
Comparison with four elementary hues *RJGB:* $h_{ab,a}$ = 25.4, 92.3, 162.2, 271.7

Code	L*	a*a	b*a	C*ab	hab,a	rgb −> olv*	Code	L*	a*a	b*a	C*ab	hab,a	rgb −> olv*
o00y=O	76.4	26.2	10.5	28.3	**21.9**	**1.00 0.00 0.00**	*c00v=C*	90.9	−21.9	−7.1	23.1	**197.9**	**0.00 1.00 1.00**
o12y	76.7	25.5	10.9	27.8	**23.2**	**1.00 0.12 0.00** R	*c12v*	86.6	−14.0	−13.4	19.4	**223.7**	**0.00 0.87 1.00**
o25y	77.4	23.8	12.0	26.7	**26.8**	**1.00 0.25 0.00**	*c25v*	82.8	−6.6	−19.2	20.3	**250.8**	**0.00 0.75 1.00**
o37y	78.8	20.8	13.9	25.0	**33.7**	**1.00 0.37 0.00**	*c37v*	79.5	0.0	−24.2	24.2	**269.8**	**0.00 0.62 1.00** B
o50y	80.7	16.5	16.6	23.4	**45.1**	**1.00 0.50 0.00**	*c50v*	76.7	5.5	−28.4	28.9	**281.1**	**0.00 0.50 1.00**
o62y	83.2	11.0	20.1	22.9	**61.2**	**1.00 0.62 0.00**	*c62v*	74.7	10.0	−31.6	33.1	**287.6**	**0.00 0.37 1.00**
o75y	86.3	4.5	24.3	24.7	**79.4**	**1.00 0.75 0.00** J	*c75v*	73.2	13.1	−33.8	36.3	**291.2**	**0.00 0.25 1.00**
o87y	89.9	−2.8	29.2	29.3	**95.5**	**1.00 0.87 0.00**	*c87v*	72.4	15.0	−35.1	38.2	**293.1**	**0.00 0.12 1.00**
y00l=Y	93.9	−10.7	34.6	36.2	**107.3**	**1.00 1.00 0.00**	*v00m=V*	72.0	15.7	−35.6	38.9	**293.8**	**0.00 0.00 1.00**
y12l	92.7	−16.6	32.8	36.8	**116.8**	**0.87 1.00 0.00**	*v12m*	72.1	16.1	−35.4	38.9	**294.4**	**0.12 0.00 1.00**
y25l	91.7	−21.8	31.3	38.2	**124.8**	**0.75 1.00 0.00**	*v25m*	72.4	17.0	−35.0	39.0	**295.9**	**0.25 0.00 1.00**
y37l	90.9	−26.2	30.1	39.9	**131.0**	**0.62 1.00 0.00**	*v37m*	72.8	18.7	−34.3	39.1	**298.5**	**0.37 0.00 1.00**
y50l	90.3	−29.8	29.1	41.7	**135.6**	**0.50 1.00 0.00**	*v50m*	73.5	21.1	−33.2	39.4	**302.3**	**0.50 0.00 1.00**
y62l	89.8	−32.5	28.4	43.2	**138.7**	**0.37 1.00 0.00**	*v62m*	74.4	24.2	−31.8	40.0	**307.2**	**0.62 0.00 1.00**
y75l	89.5	−34.3	28.0	44.3	**140.8**	**0.25 1.00 0.00**	*v75m*	75.5	28.0	−30.0	41.1	**313.0**	**0.75 0.00 1.00**
y87l	89.3	−35.4	27.7	44.9	**141.9**	**0.12 1.00 0.00**	*v87m*	76.9	32.5	−27.8	42.8	**319.4**	**0.87 0.00 1.00**
l00c=L	89.3	−35.8	27.6	45.2	**142.3**	**0.00 1.00 0.00**	*m00o=M*	78.5	37.5	−25.2	45.2	**326.0**	**1.00 0.00 1.00**
l12c	89.3	−35.6	27.0	44.7	**142.8**	**0.00 1.00 0.12**	*m12o*	77.9	34.7	−17.4	38.8	**333.2**	**1.00 0.00 0.87**
l25c	89.4	−35.0	25.4	43.3	**144.0**	**0.00 1.00 0.25**	*m25o*	77.5	32.3	−10.3	33.9	**342.2**	**1.00 0.00 0.75**
l37c	89.5	−34.1	22.6	40.9	**146.4**	**0.00 1.00 0.37**	*m37o*	77.1	30.3	−4.0	30.6	**352.3**	**1.00 0.00 0.62**
l50c	89.6	−32.7	18.6	37.6	**150.2**	**0.00 1.00 0.50**	*m50o*	76.8	28.8	1.1	28.8	**2.3**	**1.00 0.00 0.50**
l62c	89.8	−30.8	13.6	33.6	**156.1**	**0.00 1.00 0.62** G	*m62o*	76.6	27.6	5.3	28.1	**10.8**	**1.00 0.00 0.37**
l75c	90.1	−28.3	7.5	29.3	**165.1**	**0.00 1.00 0.75**	*m75o*	76.5	26.8	8.2	28.1	**16.9**	**1.00 0.00 0.25**
l87c	90.5	−25.4	0.5	25.4	**178.7**	**0.00 1.00 0.87**	*m87o*	76.4	26.4	9.8	28.2	**20.5**	**1.00 0.00 0.12**

KE211−7N, , Page 11/11, LAB*la7, adapted=not adapted