Interpretation *rgb* −> *olv and CIELAB data of a 48 step device hue circle**
for photo printer, printer separation olv*

48 step device hue circle with six device hues *OYLCVM:* $h_{ab,a}$ = 34.9, 92.5, 143.1, 226.7, 311.9, 337.2
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	34.5	59.5	41.6	72.6	**34.9**	1.00 0.00 0.00	c00v=C	52.2	−28.9	−30.8	42.3	**226.7**	0.00 1.00 1.00
o12y	42.3	52.0	50.4	72.5	**44.1**	1.00 0.12 0.00	c12v	52.2	−28.8	−30.9	42.2	**227.0**	0.00 0.87 1.00
o25y	50.6	41.2	60.5	73.2	**55.7**	1.00 0.25 0.00	c25v	49.9	−23.8	−33.1	40.8	**234.2**	0.00 0.75 1.00
o37y	58.4	30.4	70.3	76.6	**66.5**	1.00 0.37 0.00	c37v	46.3	−16.2	−36.4	39.8	**245.9**	0.00 0.62 1.00
o50y	66.4	19.1	81.2	83.5	**76.7**	1.00 0.50 0.00	c50v	41.6	−6.0	−40.6	41.0	**261.5**	0.00 0.50 1.00 B
o62y	73.3	9.8	90.7	91.3	**83.8**	1.00 0.62 0.00	c62v	35.1	7.7	−45.9	46.5	**279.6**	0.00 0.37 1.00
o75y	79.3	1.9	99.2	99.2	**88.8**	1.00 0.75 0.00 J	c75v	28.1	22.7	−51.0	55.8	**294.0**	0.00 0.25 1.00
o87y	84.1	−4.5	106.4	106.5	**92.4**	1.00 0.87 0.00	c87v	20.7	38.1	−55.2	67.1	**304.6**	0.00 0.12 1.00
y00l=Y	84.3	−4.8	106.8	106.9	**92.5**	1.00 1.00 0.00	v00m=V	13.4	51.3	−57.1	76.8	**311.9**	0.00 0.00 1.00
y12l	83.8	−5.5	106.1	106.2	**93.0**	0.87 1.00 0.00	v12m	16.0	53.5	−57.0	78.2	**313.2**	0.12 0.00 1.00
y25l	79.4	−15.5	99.4	100.6	**98.8**	0.75 1.00 0.00	v25m	18.9	56.1	−55.2	78.7	**315.4**	0.25 0.00 1.00
y37l	72.9	−27.4	89.5	93.6	**107.0**	0.62 1.00 0.00	v37m	22.1	59.4	−51.5	78.6	**319.0**	0.37 0.00 1.00
y50l	66.5	−37.3	79.8	88.1	**115.0**	0.50 1.00 0.00	v50m	25.6	63.0	−47.8	79.1	**322.8**	0.50 0.00 1.00
y62l	61.0	−45.2	71.5	84.6	**122.3**	0.37 1.00 0.00	v62m	29.6	67.8	−43.0	80.3	**327.6**	0.62 0.00 1.00
y75l	56.0	−52.0	64.2	82.6	**129.0**	0.25 1.00 0.00	v75m	33.4	73.4	−37.4	82.4	**332.9**	0.75 0.00 1.00
y87l	49.8	−58.2	55.6	80.5	**136.3**	0.12 1.00 0.00	v87m	36.7	78.0	−33.2	84.8	**336.9**	0.87 0.00 1.00
l00c=L	43.6	−62.5	46.9	78.2	**143.1**	0.00 1.00 0.00	m00o=M	36.9	78.4	−32.8	85.0	**337.2**	1.00 0.00 1.00
l12c	45.8	−61.2	28.0	67.4	**155.4**	0.00 1.00 0.12 G	m12o	36.9	78.3	−32.6	84.8	**337.4**	1.00 0.00 0.87
l25c	47.2	−57.6	15.4	59.7	**164.9**	0.00 1.00 0.25	m25o	36.9	77.0	−29.8	82.6	**338.8**	1.00 0.00 0.75
l37c	48.2	−52.8	4.4	53.0	**175.1**	0.00 1.00 0.37	m37o	36.6	74.4	−24.2	78.3	**341.9**	1.00 0.00 0.62
l50c	49.6	−46.7	−6.5	47.1	**187.9**	0.00 1.00 0.50	m50o	36.3	71.2	−16.0	73.0	**347.3**	1.00 0.00 0.50
l62c	50.7	−39.5	−17.2	43.1	**203.5**	0.00 1.00 0.62	m62o	35.8	68.1	−6.4	68.4	**354.6**	1.00 0.00 0.37
l75c	51.7	−33.3	−25.5	41.9	**217.4**	0.00 1.00 0.75	m75o	35.5	65.2	4.5	65.4	**3.9**	1.00 0.00 0.25
l87c	52.2	−29.6	−30.1	42.2	**225.5**	0.00 1.00 0.87	m87o	35.0	62.5	17.9	65.0	**16.0**	1.00 0.00 0.12

KE190−3N, Page 1/1, %BEG 'KK0X'GE27_22.TXT

Interpretation *rgb* −> *olv and CIELAB data of a 48 step device hue circle**
for laser printer, printer separation olv*

48 step device hue circle with six device hues *OYLCVM:* $h_{ab,a}$ = 33.0, 100.4, 143.3, 206.6, 264.0, 351.1
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	48.1	64.4	41.8	76.8	**33.0**	1.00 0.00 0.00	c00v=C	56.3	−40.9	−20.5	45.8	**206.6**	0.00 1.00 1.00
o12y	48.9	63.2	42.5	76.1	**33.9**	1.00 0.12 0.00	c12v	52.4	−36.0	−35.4	50.5	**224.4**	0.00 0.87 1.00
o25y	49.8	61.3	49.2	78.6	**38.7**	1.00 0.25 0.00	c25v	51.2	−25.4	−48.1	54.4	**242.1**	0.00 0.75 1.00
o37y	54.8	51.5	55.1	75.5	**46.9**	1.00 0.37 0.00	c37v	48.1	−19.1	−48.1	51.7	**248.3**	0.00 0.62 1.00
o50y	63.0	35.4	63.1	72.4	**60.6**	1.00 0.50 0.00	c50v	45.4	−14.6	−48.1	50.3	**253.0**	0.00 0.50 1.00
o62y	72.0	18.5	72.0	74.3	**75.5**	1.00 0.62 0.00	c62v	43.0	−10.6	−47.9	49.1	**257.5**	0.00 0.37 1.00
o75y	80.7	3.2	81.1	81.1	**87.7**	1.00 0.75 0.00 J	c75v	41.1	−6.4	−47.7	48.1	**262.2**	0.00 0.25 1.00
o87y	88.8	−10.0	90.8	91.3	**96.3**	1.00 0.87 0.00	c87v	39.8	−4.3	−47.4	47.6	**264.7**	0.00 0.12 1.00
y00l=Y	93.5	−17.5	95.4	97.0	**100.4**	1.00 1.00 0.00	v00m=V	38.6	−4.8	−46.2	46.5	**264.0**	0.00 0.00 1.00
y12l	82.3	−29.6	77.5	83.0	**110.9**	0.87 1.00 0.00	v12m	39.2	−4.0	−47.3	47.5	**265.1**	0.12 0.00 1.00
y25l	74.0	−39.4	64.2	75.3	**121.5**	0.75 1.00 0.00	v25m	38.9	−2.6	−47.4	47.4	**266.8**	0.25 0.00 1.00
y37l	67.1	−45.9	51.2	68.7	**131.8**	0.62 1.00 0.00	v37m	37.2	−0.2	−48.6	48.6	**269.7**	0.37 0.00 1.00 B
y50l	62.0	−53.2	45.1	69.8	**139.7**	0.50 1.00 0.00	v50m	36.1	8.3	−46.3	47.0	**280.1**	0.50 0.00 1.00
y62l	61.1	−55.1	43.6	70.3	**141.6**	0.37 1.00 0.00	v62m	36.8	21.3	−41.1	46.3	**297.4**	0.62 0.00 1.00
y75l	60.0	−59.0	43.3	73.2	**143.6**	0.25 1.00 0.00	v75m	38.9	36.9	−35.2	51.0	**316.3**	0.75 0.00 1.00
y87l	59.6	−59.8	43.4	73.9	**144.0**	0.12 1.00 0.00	v87m	41.9	51.3	−26.9	58.0	**332.3**	0.87 0.00 1.00
l00c=L	60.2	−59.3	44.2	74.0	**143.3**	0.00 1.00 0.00	m00o=M	48.2	72.1	−11.2	73.0	**351.1**	1.00 0.00 1.00
l12c	59.6	−60.0	43.6	74.2	**143.9**	0.00 1.00 0.12	m12o	48.2	75.4	−6.6	75.7	**354.9**	1.00 0.00 0.87
l25c	59.6	−59.5	42.4	73.1	**144.4**	0.00 1.00 0.25	m25o	47.8	73.7	−0.5	73.7	**359.6**	1.00 0.00 0.75
l37c	58.6	−60.3	39.1	71.9	**147.0**	0.00 1.00 0.37	m37o	48.0	71.1	7.2	71.4	**5.8**	1.00 0.00 0.62
l50c	58.2	−59.5	33.9	68.5	**150.3**	0.00 1.00 0.50	m50o	48.2	69.3	12.9	70.5	**10.6**	1.00 0.00 0.50
l62c	57.5	−59.3	28.4	65.8	**154.4**	0.00 1.00 0.62 G	m62o	47.9	67.3	20.1	70.2	**16.6**	1.00 0.00 0.37
l75c	58.0	−54.6	15.6	56.8	**164.0**	0.00 1.00 0.75	m75o	48.1	65.5	28.5	71.5	**23.5**	1.00 0.00 0.25 R
l87c	59.7	−46.3	−0.9	46.3	**181.2**	0.00 1.00 0.87	m87o	48.3	64.8	36.7	74.5	**29.5**	1.00 0.00 0.12

KE191−3N, Page 1/1, %BEG 'KK0X'GE20_22.TXT

Interpretation *rgb* −> *olv and CIELAB data of a 48 step device hue circle**
for offset print, model separation cmyn6*

48 step device hue circle with six device hues *OYLCVM:* $h_{ab,a}$ = 31.3, 96.2, 152.5, 233.9, 298.7, 353.0
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	48.4	66.2	40.3	77.5	**31.3**	1.00 0.00 0.00	c00v=C	63.0	−30.5	−41.9	51.8	**233.9**	0.00 1.00 1.00
o12y	52.8	56.7	45.9	72.9	**38.9**	1.00 0.12 0.00	c12v	59.1	−24.9	−42.6	49.4	**239.6**	0.00 0.87 1.00
o25y	57.4	46.7	51.2	69.4	**47.6**	1.00 0.25 0.00	c25v	55.3	−19.6	−43.1	47.4	**245.5**	0.00 0.75 1.00
o37y	62.8	35.8	57.6	67.8	**58.1**	1.00 0.37 0.00	c37v	50.4	−12.9	−43.9	45.7	**253.6**	0.00 0.62 1.00
o50y	68.6	25.0	64.1	68.8	**68.6**	1.00 0.50 0.00	c50v	45.7	−5.7	−44.6	44.9	**262.6**	0.00 0.50 1.00 B
o62y	74.5	14.6	70.8	72.3	**78.2**	1.00 0.62 0.00	c62v	40.7	2.2	−45.0	45.1	**272.8**	0.00 0.37 1.00
o75y	80.0	5.8	76.6	76.8	**85.6**	1.00 0.75 0.00	c75v	36.6	9.2	−45.9	46.8	**281.3**	0.00 0.25 1.00
o87y	85.1	−2.0	82.0	82.0	**91.4**	1.00 0.87 0.00 J	c87v	32.4	16.8	−46.6	49.5	**289.8**	0.00 0.12 1.00
y00l=Y	90.2	−9.6	88.3	88.8	**96.2**	1.00 1.00 0.00	v00m=V	27.5	26.0	−47.3	54.0	**298.7**	0.00 0.00 1.00
y12l	86.4	−14.5	83.3	84.5	**99.9**	0.87 1.00 0.00	v12m	29.6	34.0	−42.7	54.6	**308.4**	0.12 0.00 1.00
y25l	82.7	−18.9	79.6	81.8	**103.4**	0.75 1.00 0.00	v25m	31.3	40.8	−37.8	55.6	**317.1**	0.25 0.00 1.00
y37l	77.5	−25.5	69.0	73.5	**110.2**	0.62 1.00 0.00	v37m	35.4	44.8	−34.5	56.6	**322.4**	0.37 0.00 1.00
y50l	73.3	−31.7	62.8	70.4	**116.8**	0.50 1.00 0.00	v50m	38.3	52.7	−28.5	59.9	**331.5**	0.50 0.00 1.00
y62l	68.7	−38.7	56.8	68.8	**124.3**	0.37 1.00 0.00	v62m	40.9	59.1	−22.2	63.1	**339.4**	0.62 0.00 1.00
y75l	62.4	−48.6	43.9	65.5	**137.9**	0.25 1.00 0.00	v75m	44.9	63.2	−18.7	65.9	**343.4**	0.75 0.00 1.00
y87l	59.3	−56.5	38.9	68.6	**145.4**	0.12 1.00 0.00	v87m	47.4	68.2	−14.0	69.7	**348.3**	0.87 0.00 1.00
l00c=L	55.8	−65.2	33.9	73.5	**152.5**	0.00 1.00 0.00	m00o=M	49.5	73.5	−8.9	74.1	**353.0**	1.00 0.00 1.00
l12c	56.7	−62.6	23.5	66.9	**159.4**	0.00 1.00 0.12 G	m12o	49.4	72.3	−3.6	72.4	**357.1**	1.00 0.00 0.87
l25c	57.5	−59.1	12.7	60.5	**167.8**	0.00 1.00 0.25	m25o	49.2	71.2	1.1	71.3	**0.8**	1.00 0.00 0.75
l37c	58.5	−54.5	0.8	54.5	**179.0**	0.00 1.00 0.37	m37o	49.3	69.7	7.0	70.0	**5.8**	1.00 0.00 0.62
l50c	59.3	−50.3	−8.9	51.1	**190.1**	0.00 1.00 0.50	m50o	48.9	69.3	13.0	70.5	**10.6**	1.00 0.00 0.50
l62c	60.1	−45.8	−18.0	49.3	**201.4**	0.00 1.00 0.62	m62o	48.9	68.2	19.2	70.9	**15.7**	1.00 0.00 0.37
l75c	61.0	−40.8	−26.7	48.8	**213.2**	0.00 1.00 0.75	m75o	48.8	67.1	27.1	72.4	**22.0**	1.00 0.00 0.25 R
l87c	61.9	−36.1	−34.0	49.6	**223.3**	0.00 1.00 0.87	m87o	48.6	66.5	33.8	74.6	**26.9**	1.00 0.00 0.12

KE190−7N, Page 1/1, %BEG 'KK0X'REM_OFFS04_080929_3.TXT

Interpretation *rgb* −> *olv and CIELAB data of a 48 step device hue circle**
for laser printer, model separation cmyn62*

48 step device hue circle with six device hues *OYLCVM:* $h_{ab,a}$ = 31.9, 99.4, 150.5, 229.0, 299.2, 349.7
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	45.9	61.9	38.5	72.9	**31.9**	1.00 0.00 0.00	c00v=C	51.7	−33.7	−38.9	51.5	**229.0**	0.00 1.00 1.00
o12y	52.3	56.3	53.7	77.8	**43.6**	1.00 0.12 0.00	c12v	50.9	−31.9	−41.6	52.4	**232.5**	0.00 0.87 1.00
o25y	59.8	41.3	60.7	73.4	**55.7**	1.00 0.25 0.00	c25v	50.8	−28.2	−45.5	53.5	**238.1**	0.00 0.75 1.00
o37y	65.7	30.1	66.2	72.7	**65.5**	1.00 0.37 0.00	c37v	48.0	−21.0	−48.4	52.8	**246.5**	0.00 0.62 1.00
o50y	71.5	19.3	71.2	73.8	**74.8**	1.00 0.50 0.00	c50v	43.9	−13.8	−48.4	50.4	**254.0**	0.00 0.50 1.00
o62y	75.7	11.9	75.2	76.1	**80.9**	1.00 0.62 0.00	c62v	38.9	−5.2	−48.6	48.8	**263.8**	0.00 0.37 1.00 B
o75y	82.4	0.7	78.0	78.0	**89.4**	1.00 0.75 0.00 J	c75v	33.8	4.3	−48.7	48.9	**275.0**	0.00 0.25 1.00
o87y	86.6	−5.7	72.7	72.9	**94.5**	1.00 0.87 0.00	c87v	33.4	15.0	−45.4	47.8	**288.3**	0.00 0.12 1.00
y00l=Y	91.6	−13.9	83.9	85.0	**99.4**	1.00 1.00 0.00	v00m=V	30.8	24.1	−43.1	49.4	**299.2**	0.00 0.00 1.00
y12l	93.4	−17.4	93.2	94.8	**100.5**	0.87 1.00 0.00	v12m	30.6	31.4	−40.5	51.2	**307.7**	0.12 0.00 1.00
y25l	88.3	−23.0	86.0	89.0	**104.9**	0.75 1.00 0.00	v25m	30.5	39.8	−36.3	53.8	**317.6**	0.25 0.00 1.00
y37l	80.2	−31.4	72.3	78.8	**113.4**	0.62 1.00 0.00	v37m	32.0	45.9	−32.0	56.0	**325.1**	0.37 0.00 1.00
y50l	73.5	−38.8	62.9	73.9	**121.7**	0.50 1.00 0.00	v50m	34.4	49.9	−29.3	57.8	**329.5**	0.50 0.00 1.00
y62l	68.9	−44.4	56.0	71.5	**128.3**	0.37 1.00 0.00	v62m	37.2	54.6	−25.5	60.3	**334.9**	0.62 0.00 1.00
y75l	63.8	−52.3	47.4	70.6	**137.8**	0.25 1.00 0.00	v75m	39.1	60.2	−21.6	63.9	**340.1**	0.75 0.00 1.00
y87l	60.0	−58.1	40.6	70.9	**145.0**	0.12 1.00 0.00	v87m	41.5	64.9	−17.8	67.3	**344.6**	0.87 0.00 1.00
l00c=L	56.8	−63.3	35.7	72.7	**150.5**	0.00 1.00 0.00	m00o=M	45.3	70.9	−12.7	72.1	**349.7**	1.00 0.00 1.00
l12c	56.2	−61.9	24.4	66.6	**158.4**	0.00 1.00 0.12 G	m12o	44.9	70.9	−9.4	71.5	**352.3**	1.00 0.00 0.87
l25c	56.4	−57.7	13.9	59.3	**166.4**	0.00 1.00 0.25	m25o	44.6	69.4	−1.6	69.4	**358.6**	1.00 0.00 0.75
l37c	56.7	−54.2	4.5	54.4	**175.1**	0.00 1.00 0.37	m37o	44.9	66.5	6.1	66.7	**5.2**	1.00 0.00 0.62
l50c	57.4	−49.3	−3.5	49.4	**184.1**	0.00 1.00 0.50	m50o	44.4	64.3	12.5	65.6	**11.0**	1.00 0.00 0.50
l62c	57.2	−44.8	−12.4	46.5	**195.4**	0.00 1.00 0.62	m62o	44.4	62.9	19.0	65.8	**16.8**	1.00 0.00 0.37
l75c	56.6	−41.9	−18.6	45.8	**203.9**	0.00 1.00 0.75	m75o	44.9	62.1	25.9	67.3	**22.6**	1.00 0.00 0.25 R
l87c	55.0	−38.8	−26.7	47.1	**214.5**	0.00 1.00 0.87	m87o	45.4	61.9	33.3	70.3	**28.2**	1.00 0.00 0.12

KE191−7N, Page 1/1, %BEG 'KK0X'GE26_22.TXT