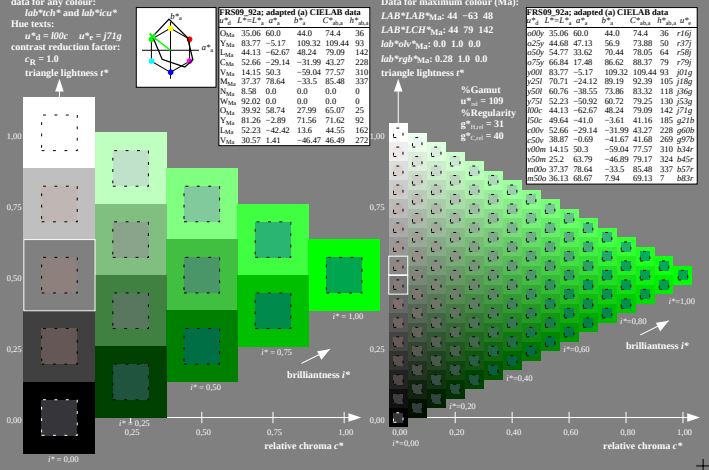
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.396$ $u^*_d = l00c$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = l00c$ $u^*_e = j71g$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 44 −63 48
*LAB*LCH**$_{Ma}$: 44 79 142
*lab*olv**$_{Ma}$: 0.0 1.0 0.0
*lab*rgb**$_{Ma}$: 0.28 1.0 0.0
triangle lightness t^*



FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

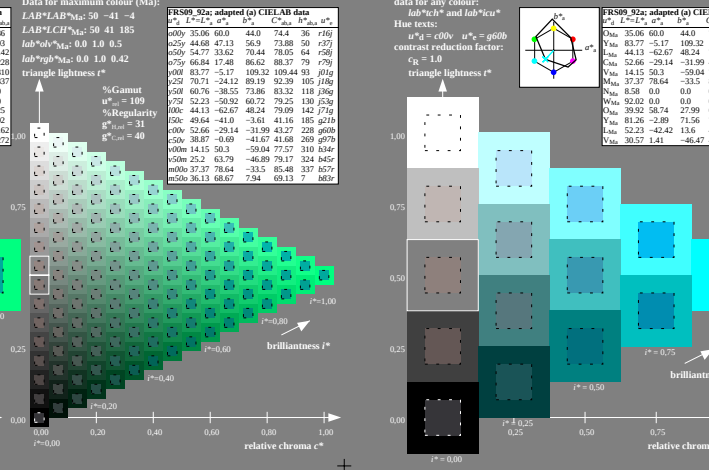
FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00c	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.514$ $u^*_d = l50c$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = l50c$ $u^*_e = g21b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 50 −41 −4
*LAB*LCH**$_{Ma}$: 50 41 185
*lab*olv**$_{Ma}$: 0.0 1.0 0.5
*lab*rgb**$_{Ma}$: 0.0 1.0 0.42
triangle lightness t^*



FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

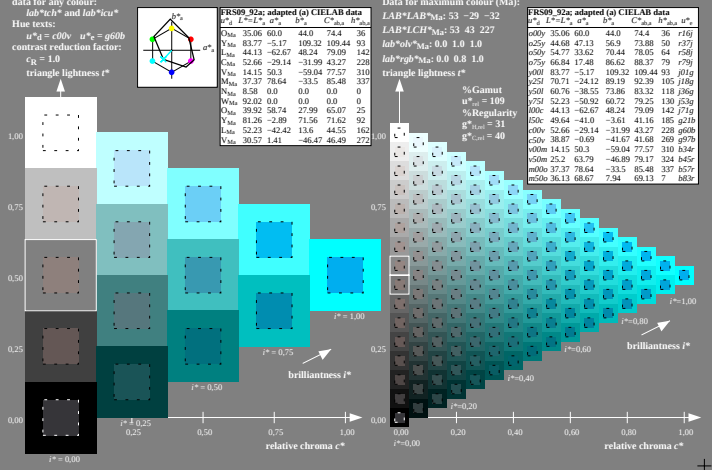
FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00c	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.632$ $u^*_d = c00v$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = c00v$ $u^*_e = g60b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 53 −29 −32
*LAB*LCH**$_{Ma}$: 53 43 227
*lab*olv**$_{Ma}$: 0.0 1.0 1.0
*lab*rgb**$_{Ma}$: 0.0 0.8 1.0
triangle lightness t^*



FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

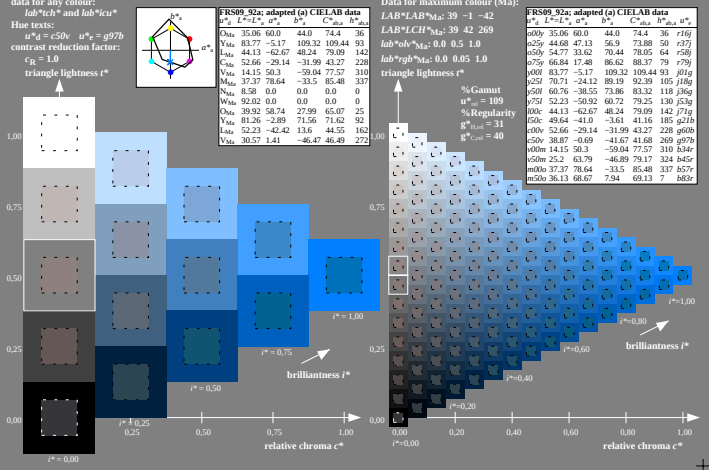
FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00c	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.747$ $u^*_d = c50v$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = c50v$ $u^*_e = g97b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 39 −1 −42
*LAB*LCH**$_{Ma}$: 39 42 269
*lab*olv**$_{Ma}$: 0.0 0.5 1.0
*lab*rgb**$_{Ma}$: 0.0 0.05 1.0
triangle lightness t^*



FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

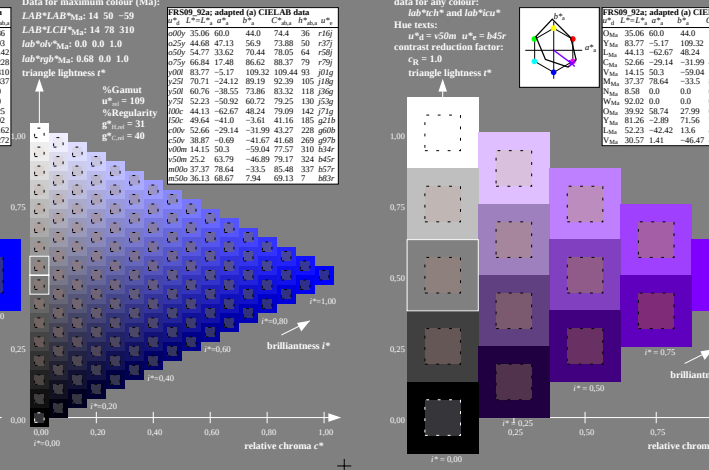
FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00c	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.862$ $u^*_d = v00m$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = v00m$ $u^*_e = b34r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 14 50 −59
*LAB*LCH**$_{Ma}$: 14 78 310
*lab*olv**$_{Ma}$: 0.0 0.0 1.0
*lab*rgb**$_{Ma}$: 0.68 0.0 1.0
triangle lightness t^*



FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

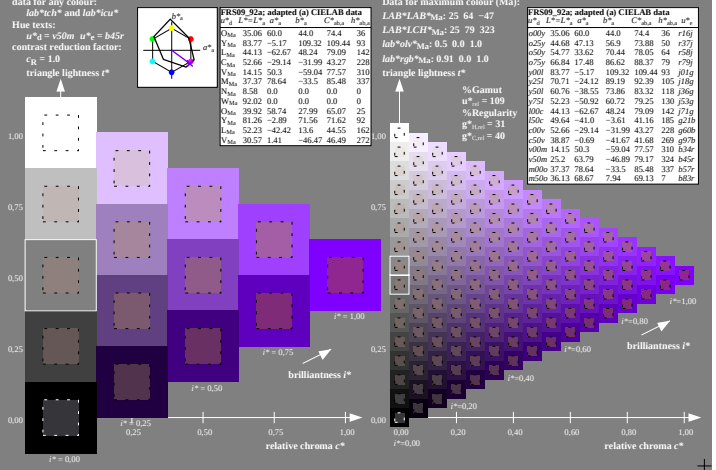
FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00c	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.899$ $u^*_d = v50m$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = v50m$ $u^*_e = b45r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 25 64 −47
*LAB*LCH**$_{Ma}$: 25 79 323
*lab*olv**$_{Ma}$: 0.5 0.0 1.0
*lab*rgb**$_{Ma}$: 0.91 0.0 1.0
triangle lightness t^*



FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

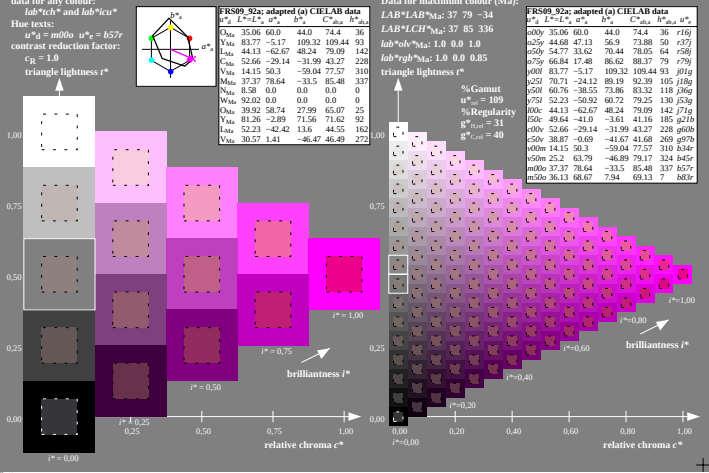
FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00c	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.936$ $u^*_d = m00o$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = m00o$ $u^*_e = b57r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 37 79 −34
*LAB*LCH**$_{Ma}$: 37 85 336
*lab*olv**$_{Ma}$: 1.0 0.0 1.0
*lab*rgb**$_{Ma}$: 1.0 0.0 0.85
triangle lightness t^*



FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

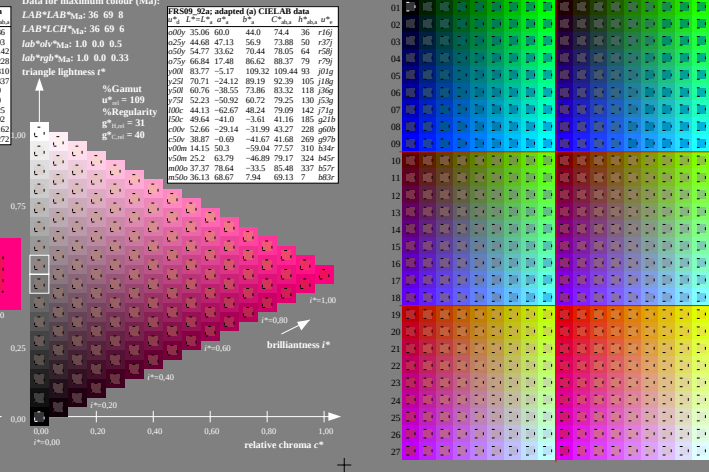
FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00c	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.018$ $u^*_d = m50o$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = m50o$ $u^*_e = b83r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 36 69 8
*LAB*LCH**$_{Ma}$: 36 69 6
*lab*olv**$_{Ma}$: 1.0 0.0 0.5
*lab*rgb**$_{Ma}$: 1.0 0.0 0.33
triangle lightness t^*

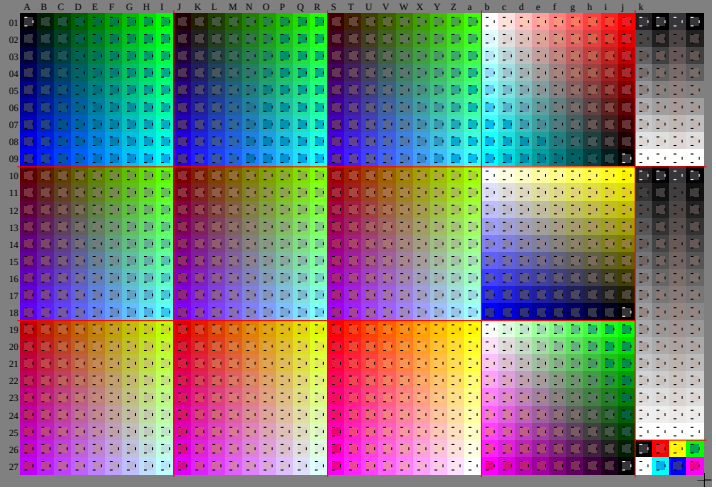


FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00c	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.396$ $u^*_d = l00c$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = l00c$ $u^*_e = j71g$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 44 −63 48
$LAB^*LCH^*_{Ma}$: 44 79 142
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
$lab^*rgb^*_{Ma}$: 0.28 1.0 0.0
triangle lightness t^*

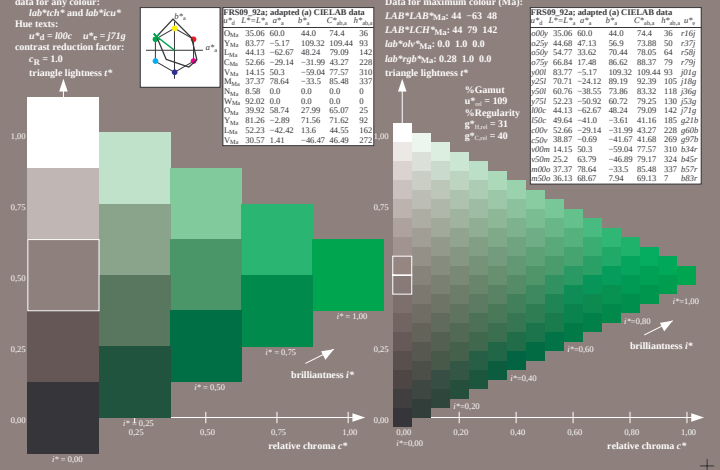
%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36	r16j
Y_{Ma}	83.77	−5.17	109.32	109.44	93	r37j
L^*_{Ma}	44.13	−62.67	48.24	79.09	142	r58j
C^*_{Ma}	52.66	−29.14	−31.99	43.27	228	r79j
V_{Ma}	14.15	50.3	−59.04	77.57	310	j01g
M_{Ma}	37.37	78.64	−33.5	85.48	337	j18g
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L^*_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	

FRS09_92a; adapted (a) CIELAB data

	a^*_d	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
e00y	35.06	60.0	44.0	74.4	36	r16j	
o25y	44.68	47.13	56.9	73.88	50	r37j	
o50y	54.77	33.62	70.44	78.05	64	r58j	
o75y	66.84	17.48	86.62	88.37	79	r79j	
y00l	83.77	−5.17	109.32	109.44	93	j01g	
y25l	70.71	−24.12	89.19	92.39	105	j18g	
y50l	60.76	−38.55	73.86	83.32	118	j36g	
y75l	52.23	−50.92	60.72	79.25	130	j53g	
l00c	44.13	−62.67	48.24	79.09	142	j71g	
l50c	49.64	−41.0	−3.61	41.16	185	g21b	
c00v	52.66	−29.14	−31.99	43.27	228	g60b	
c50v	38.87	−0.69	−41.67	41.68	269	g97b	
v00m	14.15	50.3	−59.04	77.57	310	b34r	
v50m	25.2	63.79	−46.89	79.17	324	b45r	
m00o	37.37	78.64	−33.5	85.48	337	b57r	
m50o	36.13	68.67	7.94	69.13	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.514$ $u^*_d = l50c$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = l50c$ $u^*_e = g21b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 50 −41 −4
$LAB^*LCH^*_{Ma}$: 50 41 185
$lab^*olv^*_{Ma}$: 0.0 1.0 0.5
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.42
triangle lightness t^*

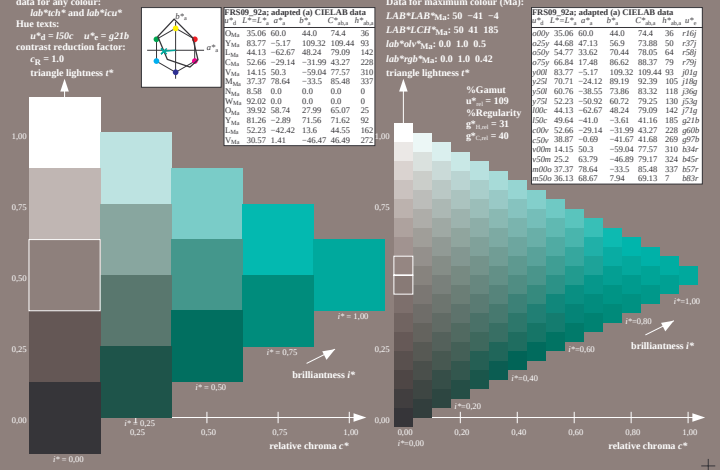
%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36	r16j
Y_{Ma}	83.77	−5.17	109.32	109.44	93	r37j
L^*_{Ma}	44.13	−62.67	48.24	79.09	142	r58j
C^*_{Ma}	52.66	−29.14	−31.99	43.27	228	r79j
V_{Ma}	14.15	50.3	−59.04	77.57	310	j01g
M_{Ma}	37.37	78.64	−33.5	85.48	337	j18g
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L^*_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	

FRS09_92a; adapted (a) CIELAB data

	a^*_d	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
e00y	35.06	60.0	44.0	74.4	36	r16j	
o25y	44.68	47.13	56.9	73.88	50	r37j	
o50y	54.77	33.62	70.44	78.05	64	r58j	
o75y	66.84	17.48	86.62	88.37	79	r79j	
y00l	83.77	−5.17	109.32	109.44	93	j01g	
y25l	70.71	−24.12	89.19	92.39	105	j18g	
y50l	60.76	−38.55	73.86	83.32	118	j36g	
y75l	52.23	−50.92	60.72	79.25	130	j53g	
l00c	44.13	−62.67	48.24	79.09	142	j71g	
l50c	49.64	−41.0	−3.61	41.16	185	g21b	
c00v	52.66	−29.14	−31.99	43.27	228	g60b	
c50v	38.87	−0.69	−41.67	41.68	269	g97b	
v00m	14.15	50.3	−59.04	77.57	310	b34r	
v50m	25.2	63.79	−46.89	79.17	324	b45r	
m00o	37.37	78.64	−33.5	85.48	337	b57r	
m50o	36.13	68.67	7.94	69.13	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.632$ $u^*_d = c00v$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = c00v$ $u^*_e = g60b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 53 −29 −32
$LAB^*LCH^*_{Ma}$: 53 43 227
$lab^*olv^*_{Ma}$: 0.0 1.0 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.8 1.0
triangle lightness t^*

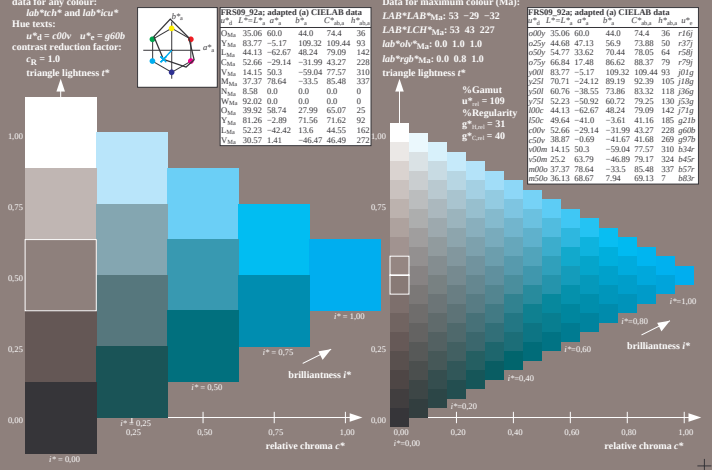
%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36	r16j
Y_{Ma}	83.77	−5.17	109.32	109.44	93	r37j
L^*_{Ma}	44.13	−62.67	48.24	79.09	142	r58j
C^*_{Ma}	52.66	−29.14	−31.99	43.27	228	r79j
V_{Ma}	14.15	50.3	−59.04	77.57	310	j01g
M_{Ma}	37.37	78.64	−33.5	85.48	337	j18g
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L^*_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	

FRS09_92a; adapted (a) CIELAB data

	a^*_d	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
e00y	35.06	60.0	44.0	74.4	36	r16j	
o25y	44.68	47.13	56.9	73.88	50	r37j	
o50y	54.77	33.62	70.44	78.05	64	r58j	
o75y	66.84	17.48	86.62	88.37	79	r79j	
y00l	83.77	−5.17	109.32	109.44	93	j01g	
y25l	70.71	−24.12	89.19	92.39	105	j18g	
y50l	60.76	−38.55	73.86	83.32	118	j36g	
y75l	52.23	−50.92	60.72	79.25	130	j53g	
l00c	44.13	−62.67	48.24	79.09	142	j71g	
l50c	49.64	−41.0	−3.61	41.16	185	g21b	
c00v	52.66	−29.14	−31.99	43.27	228	g60b	
c50v	38.87	−0.69	−41.67	41.68	269	g97b	
v00m	14.15	50.3	−59.04	77.57	310	b34r	
v50m	25.2	63.79	−46.89	79.17	324	b45r	
m00o	37.37	78.64	−33.5	85.48	337	b57r	
m50o	36.13	68.67	7.94	69.13	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.747$ $u^*_d = c50v$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = c50v$ $u^*_e = g97b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 39 −1 −42
$LAB^*LCH^*_{Ma}$: 39 42 269
$lab^*olv^*_{Ma}$: 0.0 0.5 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.05 1.0
triangle lightness t^*

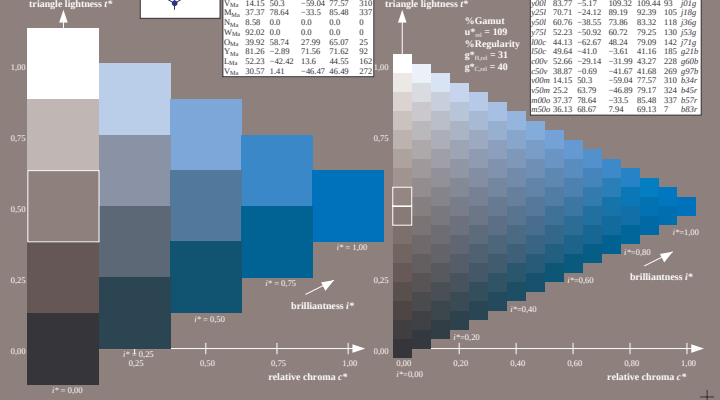
%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36	r16j
Y_{Ma}	83.77	−5.17	109.32	109.44	93	r37j
L^*_{Ma}	44.13	−62.67	48.24	79.09	142	r58j
C^*_{Ma}	52.66	−29.14	−31.99	43.27	228	r79j
V_{Ma}	14.15	50.3	−59.04	77.57	310	j01g
M_{Ma}	37.37	78.64	−33.5	85.48	337	j18g
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L^*_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	

FRS09_92a; adapted (a) CIELAB data

	a^*_d	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
e00y	35.06	60.0	44.0	74.4	36	r16j	
o25y	44.68	47.13	56.9	73.88	50	r37j	
o50y	54.77	33.62	70.44	78.05	64	r58j	
o75y	66.84	17.48	86.62	88.37	79	r79j	
y00l	83.77	−5.17	109.32	109.44	93	j01g	
y25l	70.71	−24.12	89.19	92.39	105	j18g	
y50l	60.76	−38.55	73.86	83.32	118	j36g	
y75l	52.23	−50.92	60.72	79.25	130	j53g	
l00c	44.13	−62.67	48.24	79.09	142	j71g	
l50c	49.64	−41.0	−3.61	41.16	185	g21b	
c00v	52.66	−29.14	−31.99	43.27	228	g60b	
c50v	38.87	−0.69	−41.67	41.68	269	g97b	
v00m	14.15	50.3	−59.04	77.57	310	b34r	
v50m	25.2	63.79	−46.89	79.17	324	b45r	
m00o	37.37	78.64	−33.5	85.48	337	b57r	
m50o	36.13	68.67	7.94	69.13	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.862$ $u^*_d = v00m$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = v00m$ $u^*_e = b34r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 14 50 −59
$LAB^*LCH^*_{Ma}$: 14 78 310
$lab^*olv^*_{Ma}$: 0.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.68 0.0 1.0
triangle lightness t^*

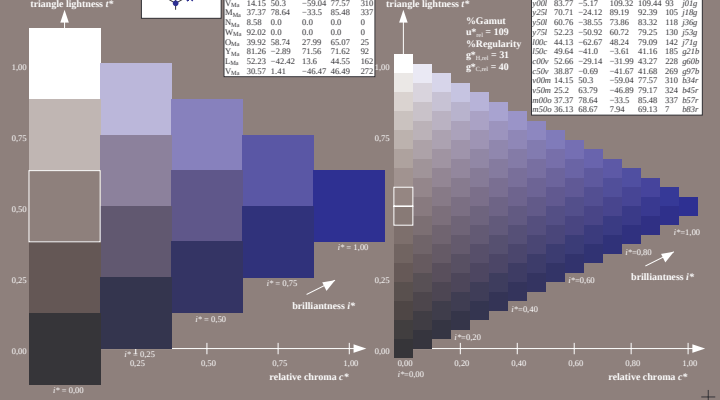
%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36	r16j
Y_{Ma}	83.77	−5.17	109.32	109.44	93	r37j
L^*_{Ma}	44.13	−62.67	48.24	79.09	142	r58j
C^*_{Ma}	52.66	−29.14	−31.99	43.27	228	r79j
V_{Ma}	14.15	50.3	−59.04	77.57	310	j01g
M_{Ma}	37.37	78.64	−33.5	85.48	337	j18g
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L^*_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	

FRS09_92a; adapted (a) CIELAB data

	a^*_d	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
e00y	35.06	60.0	44.0	74.4	36	r16j	
o25y	44.68	47.13	56.9	73.88	50	r37j	
o50y	54.77	33.62	70.44	78.05	64	r58j	
o75y	66.84	17.48	86.62	88.37	79	r79j	
y00l	83.77	−5.17	109.32	109.44	93	j01g	
y25l	70.71	−24.12	89.19	92.39	105	j18g	
y50l	60.76	−38.55	73.86	83.32	118	j36g	
y75l	52.23	−50.92	60.72	79.25	130	j53g	
l00c	44.13	−62.67	48.24	79.09	142	j71g	
l50c	49.64	−41.0	−3.61	41.16	185	g21b	
c00v	52.66	−29.14	−31.99	43.27	228	g60b	
c50v	38.87	−0.69	−41.67	41.68	269	g97b	
v00m	14.15	50.3	−59.04	77.57	310	b34r	
v50m	25.2	63.79	−46.89	79.17	324	b45r	
m00o	37.37	78.64	−33.5	85.48	337	b57r	
m50o	36.13	68.67	7.94	69.13	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.899$ $u^*_d = v50m$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = v50m$ $u^*_e = b45r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 25 64 −47
$LAB^*LCH^*_{Ma}$: 25 79 323
$lab^*olv^*_{Ma}$: 0.5 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.91 0.0 1.0
triangle lightness t^*

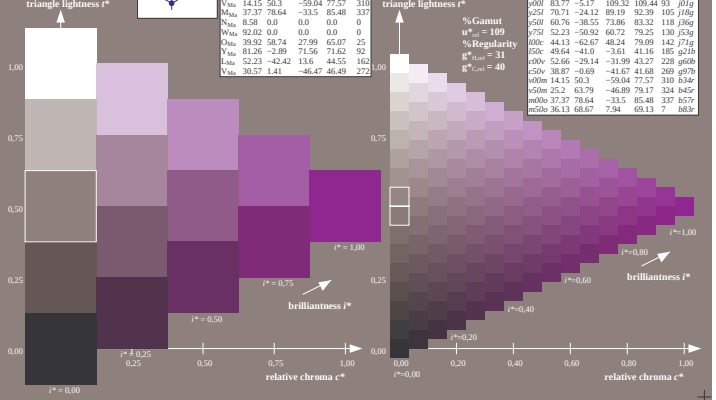
%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36	r16j
Y_{Ma}	83.77	−5.17	109.32	109.44	93	r37j
L^*_{Ma}	44.13	−62.67	48.24	79.09	142	r58j
C^*_{Ma}	52.66	−29.14	−31.99	43.27	228	r79j
V_{Ma}	14.15	50.3	−59.04	77.57	310	j01g
M_{Ma}	37.37	78.64	−33.5	85.48	337	j18g
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L^*_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	

FRS09_92a; adapted (a) CIELAB data

	a^*_d	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
e00y	35.06	60.0	44.0	74.4	36	r16j	
o25y	44.68	47.13	56.9	73.88	50	r37j	
o50y	54.77	33.62	70.44	78.05	64	r58j	
o75y	66.84	17.48	86.62	88.37	79	r79j	
y00l	83.77	−5.17	109.32	109.44	93	j01g	
y25l	70.71	−24.12	89.19	92.39	105	j18g	
y50l	60.76	−38.55	73.86	83.32	118	j36g	
y75l	52.23	−50.92	60.72	79.25	130	j53g	
l00c	44.13	−62.67	48.24	79.09	142	j71g	
l50c	49.64	−41.0	−3.61	41.16	185	g21b	
c00v	52.66	−29.14	−31.99	43.27	228	g60b	
c50v	38.87	−0.69	−41.67	41.68	269	g97b	
v00m	14.15	50.3	−59.04	77.57	310	b34r	
v50m	25.2	63.79	−46.89	79.17	324	b45r	
m00o	37.37	78.64	−33.5	85.48	337	b57r	
m50o	36.13	68.67	7.94	69.13	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.936$ $u^*_d = m00o$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = m00o$ $u^*_e = b57r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 37 79 −34
$LAB^*LCH^*_{Ma}$: 37 85 336
$lab^*olv^*_{Ma}$: 1.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.85
triangle lightness t^*

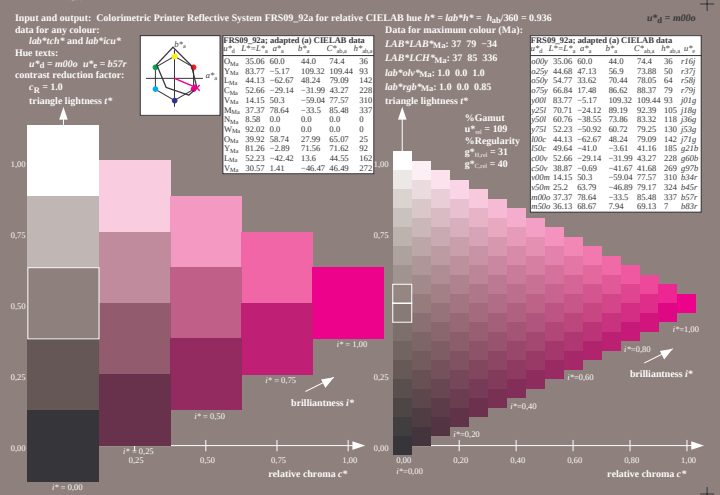
%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36	r16j
Y_{Ma}	83.77	−5.17	109.32	109.44	93	r37j
L^*_{Ma}	44.13	−62.67	48.24	79.09	142	r58j
C^*_{Ma}	52.66	−29.14	−31.99	43.27	228	r79j
V_{Ma}	14.15	50.3	−59.04	77.57	310	j01g
M_{Ma}	37.37	78.64	−33.5	85.48	337	j18g
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L^*_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	

FRS09_92a; adapted (a) CIELAB data

	a^*_d	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
e00y	35.06	60.0	44.0	74.4	36	r16j	
o25y	44.68	47.13	56.9	73.88	50	r37j	
o50y	54.77	33.62	70.44	78.05	64	r58j	
o75y	66.84	17.48	86.62	88.37	79	r79j	
y00l	83.77	−5.17	109.32	109.44	93	j01g	
y25l	70.71	−24.12	89.19	92.39	105	j18g	
y50l	60.76	−38.55	73.86	83.32	118	j36g	
y75l	52.23	−50.92	60.72	79.25	130	j53g	
l00c	44.13	−62.67	48.24	79.09	142	j71g	
l50c	49.64	−41.0	−3.61	41.16	185	g21b	
c00v	52.66	−29.14	−31.99	43.27	228	g60b	
c50v	38.87	−0.69	−41.67	41.68	269	g97b	
v00m	14.15	50.3	−59.04	77.57	310	b34r	
v50m	25.2	63.79	−46.89	79.17	324	b45r	
m00o	37.37	78.64	−33.5	85.48	337	b57r	
m50o	36.13	68.67	7.94	69.13	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.018$ $u^*_d = m50o$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = m50o$ $u^*_e = b83r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 36 69 8
$LAB^*LCH^*_{Ma}$: 36 69 6
$lab^*olv^*_{Ma}$: 1.0 0.0 0.5
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.33
triangle lightness t^*

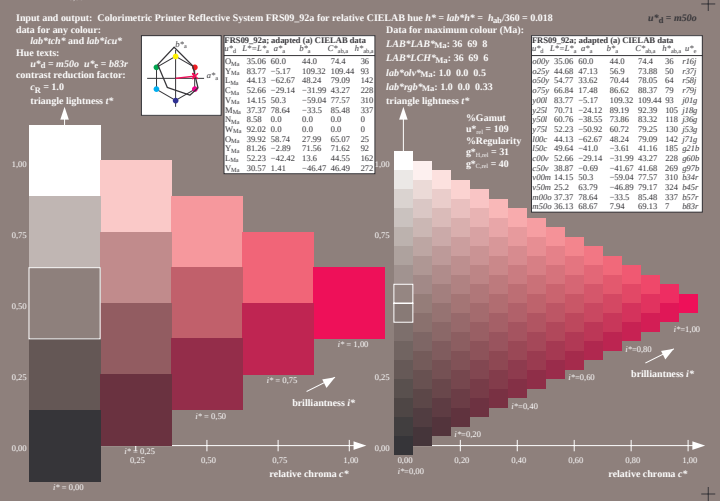
%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

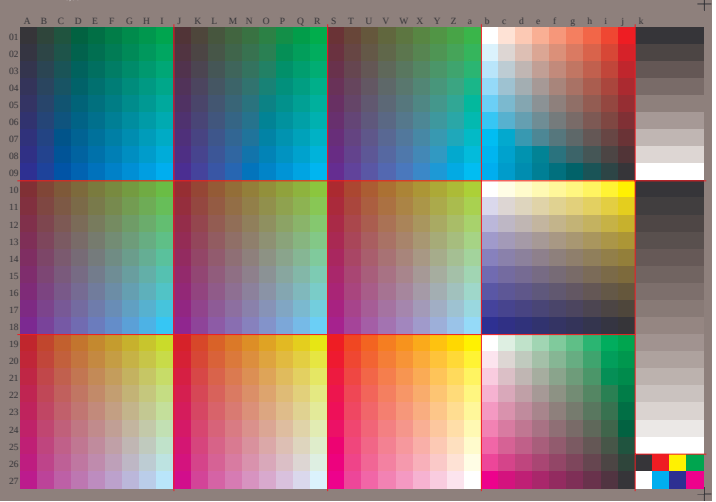
FRS09_92a; adapted (a) CIELAB data

	L^*	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36	r16j
Y_{Ma}	83.77	−5.17	109.32	109.44	93	r37j
L^*_{Ma}	44.13	−62.67	48.24	79.09	142	r58j
C^*_{Ma}	52.66	−29.14	−31.99	43.27	228	r79j
V_{Ma}	14.15	50.3	−59.04	77.57	310	j01g
M_{Ma}	37.37	78.64	−33.5	85.48	337	j18g
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L^*_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	

FRS09_92a; adapted (a) CIELAB data

	a^*_d	L^*_{ab}	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
e00y	35.06	60.0	44.0	74.4	36	r16j	
o25y	44.68	47.13	56.9	73.88	50	r37j	
o50y	54.77	33.62	70.44	78.05	64	r58j	
o75y	66.84	17.48	86.62	88.37	79	r79j	
y00l	83.77	−5.17	109.32	109.44	93	j01g	
y25l	70.71	−24.12	89.19	92.39	105	j18g	
y50l	60.76	−38.55	73.86	83.32	118	j36g	
y75l	52.23	−50.92	60.72	79.25	130	j53g	
l00c	44.13	−62.67	48.24	79.09	142	j71g	
l50c	49.64	−41.0	−3.61	41.16	185	g21b	
c00v	52.66	−29.14	−31.99	43.27	228	g60b	
c50v	38.87	−0.69	−41.67	41.68	269	g97b	
v00m	14.15	50.3	−59.04	77.57	310	b34r	
v50m	25.2	63.79	−46.89	79.17	324	b45r	
m00o	37.37	78.64	−33.5	85.48	337	b57r	
m50o	36.13	68.67	7.94	69.13	7	b83r	





Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.396$ $u^*_d = l00c$

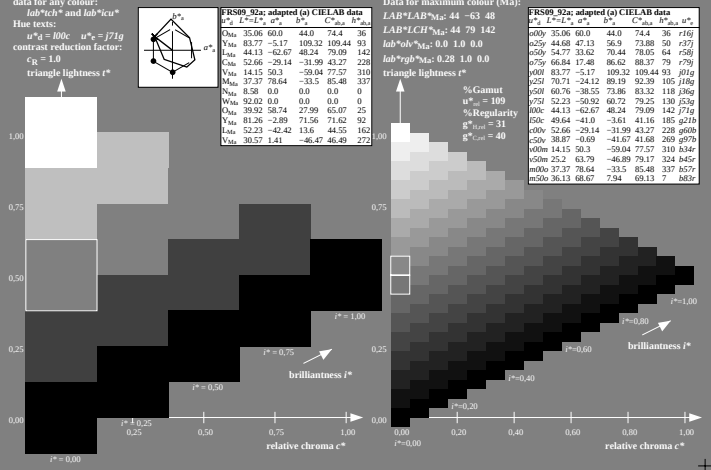
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = l00c$ $u^*_e = j71g$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 44 −63 48
$LAB^*LCH^*_{Ma}$: 44 79 142
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
$lab^*rgb^*_{Ma}$: 0.28 1.0 0.0
triangle lightness t^*

%Gamut $u^*_{ce} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_{ce}
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*
Y_{Ma}	83.77	−5.17	109.32	109.44	93	
L_{Ma}	44.13	−62.67	48.24	79.09	142	
C_{Ma}	52.66	−29.14	−31.99	43.27	228	
V_{Ma}	14.15	50.3	−59.04	77.57	310	
M_{Ma}	37.37	78.64	−33.5	85.48	337	
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	
e00y	35.06	60.0	44.0	74.4	36	*r16j*
a25y	44.68	47.13	56.9	73.88	50	*r37j*
o50y	54.77	33.62	70.44	78.05	64	*r58j*
b75y	66.84	17.48	86.62	88.37	79	*r79j*
y00l	83.77	−5.17	109.32	109.44	93	*j01g*
y25l	70.71	−24.12	89.19	92.39	105	*j18g*
y50l	60.76	−38.55	73.86	83.32	118	*j36g*
y75l	52.23	−50.92	60.72	79.25	130	*j53g*
l00c	44.13	−62.67	48.24	79.09	142	*j71g*
l50c	49.64	−41.0	−3.61	41.16	185	*g21b*
c00v	52.66	−29.14	−31.99	43.27	228	*g60b*
c50v	38.87	−0.69	−41.67	41.68	269	*g97b*
v00m	14.15	50.3	−59.04	77.57	310	*b34r*
v50m	25.2	63.79	−46.89	79.17	324	*b45r*
m00o	37.37	78.64	−33.5	85.48	337	*b57r*
m50o	36.13	68.67	7.94	69.13	7	*b83r*



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.514$ $u^*_d = l50c$

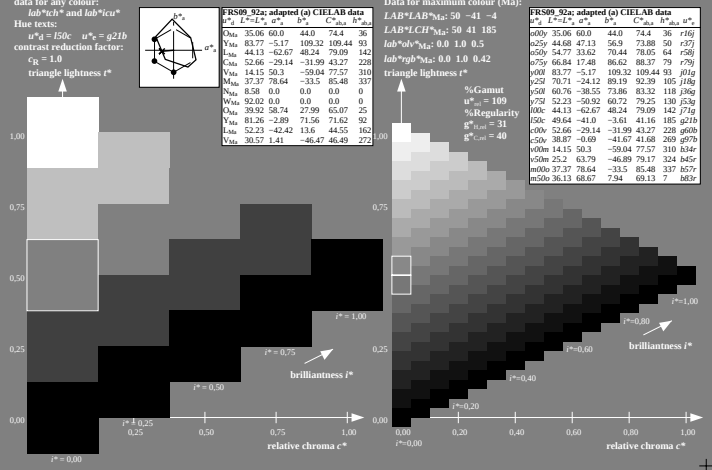
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = l50c$ $u^*_e = g21b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 50 −41 −4
$LAB^*LCH^*_{Ma}$: 50 41 185
$lab^*olv^*_{Ma}$: 0.0 1.0 0.5
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.42
triangle lightness t^*

%Gamut $u^*_{ce} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_{ce}
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*
Y_{Ma}	83.77	−5.17	109.32	109.44	93	
L_{Ma}	44.13	−62.67	48.24	79.09	142	
C_{Ma}	52.66	−29.14	−31.99	43.27	228	
V_{Ma}	14.15	50.3	−59.04	77.57	310	
M_{Ma}	37.37	78.64	−33.5	85.48	337	
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	
e00y	35.06	60.0	44.0	74.4	36	*r16j*
a25y	44.68	47.13	56.9	73.88	50	*r37j*
o50y	54.77	33.62	70.44	78.05	64	*r58j*
b75y	66.84	17.48	86.62	88.37	79	*r79j*
y00l	83.77	−5.17	109.32	109.44	93	*j01g*
y25l	70.71	−24.12	89.19	92.39	105	*j18g*
y50l	60.76	−38.55	73.86	83.32	118	*j36g*
y75l	52.23	−50.92	60.72	79.25	130	*j53g*
l00c	44.13	−62.67	48.24	79.09	142	*j71g*
l50c	49.64	−41.0	−3.61	41.16	185	*g21b*
c00v	52.66	−29.14	−31.99	43.27	228	*g60b*
c50v	38.87	−0.69	−41.67	41.68	269	*g97b*
v00m	14.15	50.3	−59.04	77.57	310	*b34r*
v50m	25.2	63.79	−46.89	79.17	324	*b45r*
m00o	37.37	78.64	−33.5	85.48	337	*b57r*
m50o	36.13	68.67	7.94	69.13	7	*b83r*



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.632$ $u^*_d = c00v$

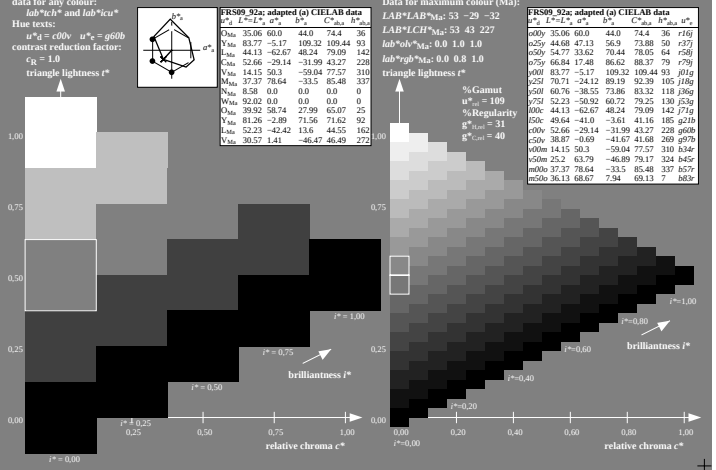
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = c00v$ $u^*_e = g60b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 53 −29 −32
$LAB^*LCH^*_{Ma}$: 53 43 227
$lab^*olv^*_{Ma}$: 0.0 1.0 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.8 1.0
triangle lightness t^*

%Gamut $u^*_{ce} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_{ce}
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*
Y_{Ma}	83.77	−5.17	109.32	109.44	93	
L_{Ma}	44.13	−62.67	48.24	79.09	142	
C_{Ma}	52.66	−29.14	−31.99	43.27	228	
V_{Ma}	14.15	50.3	−59.04	77.57	310	
M_{Ma}	37.37	78.64	−33.5	85.48	337	
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	
e00y	35.06	60.0	44.0	74.4	36	*r16j*
a25y	44.68	47.13	56.9	73.88	50	*r37j*
o50y	54.77	33.62	70.44	78.05	64	*r58j*
b75y	66.84	17.48	86.62	88.37	79	*r79j*
y00l	83.77	−5.17	109.32	109.44	93	*j01g*
y25l	70.71	−24.12	89.19	92.39	105	*j18g*
y50l	60.76	−38.55	73.86	83.32	118	*j36g*
y75l	52.23	−50.92	60.72	79.25	130	*j53g*
l00c	44.13	−62.67	48.24	79.09	142	*j71g*
l50c	49.64	−41.0	−3.61	41.16	185	*g21b*
c00v	52.66	−29.14	−31.99	43.27	228	*g60b*
c50v	38.87	−0.69	−41.67	41.68	269	*g97b*
v00m	14.15	50.3	−59.04	77.57	310	*b34r*
v50m	25.2	63.79	−46.89	79.17	324	*b45r*
m00o	37.37	78.64	−33.5	85.48	337	*b57r*
m50o	36.13	68.67	7.94	69.13	7	*b83r*



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.747$ $u^*_d = c50v$

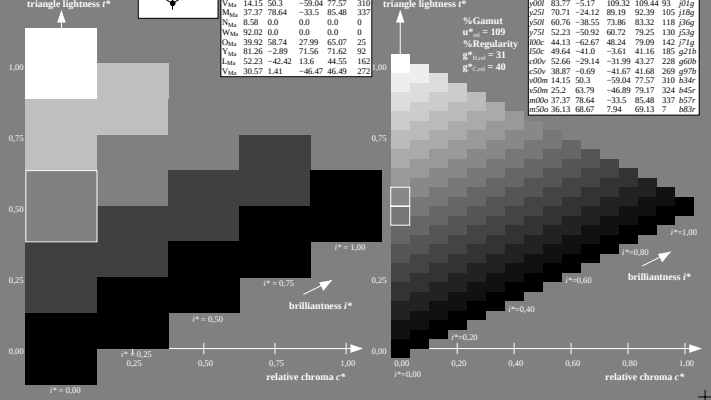
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = c50v$ $u^*_e = g97b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 39 −1 −42
$LAB^*LCH^*_{Ma}$: 39 42 269
$lab^*olv^*_{Ma}$: 0.0 0.5 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.05 1.0
triangle lightness t^*

%Gamut $u^*_{ce} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_{ce}
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*
Y_{Ma}	83.77	−5.17	109.32	109.44	93	
L_{Ma}	44.13	−62.67	48.24	79.09	142	
C_{Ma}	52.66	−29.14	−31.99	43.27	228	
V_{Ma}	14.15	50.3	−59.04	77.57	310	
M_{Ma}	37.37	78.64	−33.5	85.48	337	
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	
e00y	35.06	60.0	44.0	74.4	36	*r16j*
a25y	44.68	47.13	56.9	73.88	50	*r37j*
o50y	54.77	33.62	70.44	78.05	64	*r58j*
b75y	66.84	17.48	86.62	88.37	79	*r79j*
y00l	83.77	−5.17	109.32	109.44	93	*j01g*
y25l	70.71	−24.12	89.19	92.39	105	*j18g*
y50l	60.76	−38.55	73.86	83.32	118	*j36g*
y75l	52.23	−50.92	60.72	79.25	130	*j53g*
l00c	44.13	−62.67	48.24	79.09	142	*j71g*
l50c	49.64	−41.0	−3.61	41.16	185	*g21b*
c00v	52.66	−29.14	−31.99	43.27	228	*g60b*
c50v	38.87	−0.69	−41.67	41.68	269	*g97b*
v00m	14.15	50.3	−59.04	77.57	310	*b34r*
v50m	25.2	63.79	−46.89	79.17	324	*b45r*
m00o	37.37	78.64	−33.5	85.48	337	*b57r*
m50o	36.13	68.67	7.94	69.13	7	*b83r*



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.862$ $u^*_d = v00m$

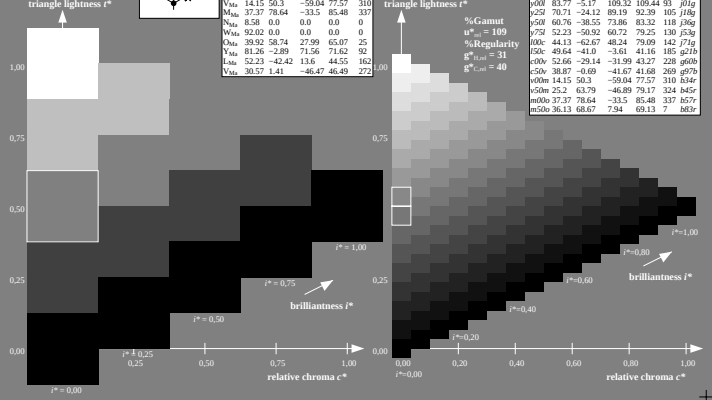
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = v00m$ $u^*_e = b34r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 14 50 −59
$LAB^*LCH^*_{Ma}$: 14 78 310
$lab^*olv^*_{Ma}$: 0.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.68 0.0 1.0
triangle lightness t^*

%Gamut $u^*_{ce} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_{ce}
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*
Y_{Ma}	83.77	−5.17	109.32	109.44	93	
L_{Ma}	44.13	−62.67	48.24	79.09	142	
C_{Ma}	52.66	−29.14	−31.99	43.27	228	
V_{Ma}	14.15	50.3	−59.04	77.57	310	
M_{Ma}	37.37	78.64	−33.5	85.48	337	
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	
e00y	35.06	60.0	44.0	74.4	36	*r16j*
a25y	44.68	47.13	56.9	73.88	50	*r37j*
o50y	54.77	33.62	70.44	78.05	64	*r58j*
b75y	66.84	17.48	86.62	88.37	79	*r79j*
y00l	83.77	−5.17	109.32	109.44	93	*j01g*
y25l	70.71	−24.12	89.19	92.39	105	*j18g*
y50l	60.76	−38.55	73.86	83.32	118	*j36g*
y75l	52.23	−50.92	60.72	79.25	130	*j53g*
l00c	44.13	−62.67	48.24	79.09	142	*j71g*
l50c	49.64	−41.0	−3.61	41.16	185	*g21b*
c00v	52.66	−29.14	−31.99	43.27	228	*g60b*
c50v	38.87	−0.69	−41.67	41.68	269	*g97b*
v00m	14.15	50.3	−59.04	77.57	310	*b34r*
v50m	25.2	63.79	−46.89	79.17	324	*b45r*
m00o	37.37	78.64	−33.5	85.48	337	*b57r*
m50o	36.13	68.67	7.94	69.13	7	*b83r*



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.899$ $u^*_d = v50m$

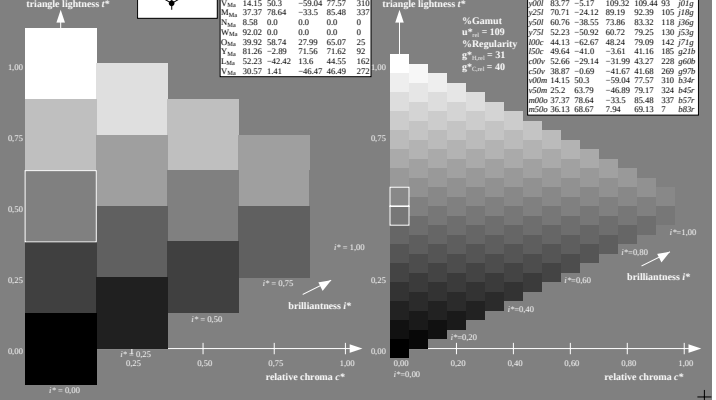
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = v50m$ $u^*_e = b45r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 25 64 −47
$LAB^*LCH^*_{Ma}$: 25 79 323
$lab^*olv^*_{Ma}$: 0.5 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.91 0.0 1.0
triangle lightness t^*

%Gamut $u^*_{ce} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_{ce}
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*
Y_{Ma}	83.77	−5.17	109.32	109.44	93	
L_{Ma}	44.13	−62.67	48.24	79.09	142	
C_{Ma}	52.66	−29.14	−31.99	43.27	228	
V_{Ma}	14.15	50.3	−59.04	77.57	310	
M_{Ma}	37.37	78.64	−33.5	85.48	337	
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	
e00y	35.06	60.0	44.0	74.4	36	*r16j*
a25y	44.68	47.13	56.9	73.88	50	*r37j*
o50y	54.77	33.62	70.44	78.05	64	*r58j*
b75y	66.84	17.48	86.62	88.37	79	*r79j*
y00l	83.77	−5.17	109.32	109.44	93	*j01g*
y25l	70.71	−24.12	89.19	92.39	105	*j18g*
y50l	60.76	−38.55	73.86	83.32	118	*j36g*
y75l	52.23	−50.92	60.72	79.25	130	*j53g*
l00c	44.13	−62.67	48.24	79.09	142	*j71g*
l50c	49.64	−41.0	−3.61	41.16	185	*g21b*
c00v	52.66	−29.14	−31.99	43.27	228	*g60b*
c50v	38.87	−0.69	−41.67	41.68	269	*g97b*
v00m	14.15	50.3	−59.04	77.57	310	*b34r*
v50m	25.2	63.79	−46.89	79.17	324	*b45r*
m00o	37.37	78.64	−33.5	85.48	337	*b57r*
m50o	36.13	68.67	7.94	69.13	7	*b83r*



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.936$ $u^*_d = m00o$

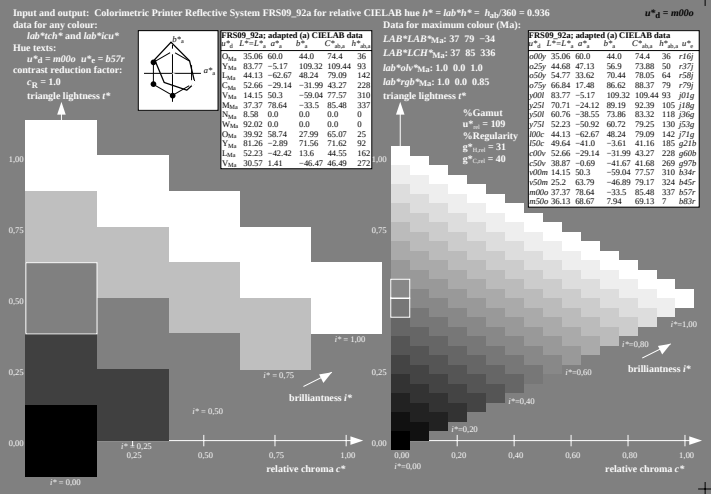
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = m00o$ $u^*_e = b57r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 37 79 −34
$LAB^*LCH^*_{Ma}$: 37 85 336
$lab^*olv^*_{Ma}$: 1.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.85
triangle lightness t^*

%Gamut $u^*_{ce} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_{ce}
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*
Y_{Ma}	83.77	−5.17	109.32	109.44	93	
L_{Ma}	44.13	−62.67	48.24	79.09	142	
C_{Ma}	52.66	−29.14	−31.99	43.27	228	
V_{Ma}	14.15	50.3	−59.04	77.57	310	
M_{Ma}	37.37	78.64	−33.5	85.48	337	
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	
e00y	35.06	60.0	44.0	74.4	36	*r16j*
a25y	44.68	47.13	56.9	73.88	50	*r37j*
o50y	54.77	33.62	70.44	78.05	64	*r58j*
b75y	66.84	17.48	86.62	88.37	79	*r79j*
y00l	83.77	−5.17	109.32	109.44	93	*j01g*
y25l	70.71	−24.12	89.19	92.39	105	*j18g*
y50l	60.76	−38.55	73.86	83.32	118	*j36g*
y75l	52.23	−50.92	60.72	79.25	130	*j53g*
l00c	44.13	−62.67	48.24	79.09	142	*j71g*
l50c	49.64	−41.0	−3.61	41.16	185	*g21b*
c00v	52.66	−29.14	−31.99	43.27	228	*g60b*
c50v	38.87	−0.69	−41.67	41.68	269	*g97b*
v00m	14.15	50.3	−59.04	77.57	310	*b34r*
v50m	25.2	63.79	−46.89	79.17	324	*b45r*
m00o	37.37	78.64	−33.5	85.48	337	*b57r*
m50o	36.13	68.67	7.94	69.13	7	*b83r*



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.018$ $u^*_d = m50o$

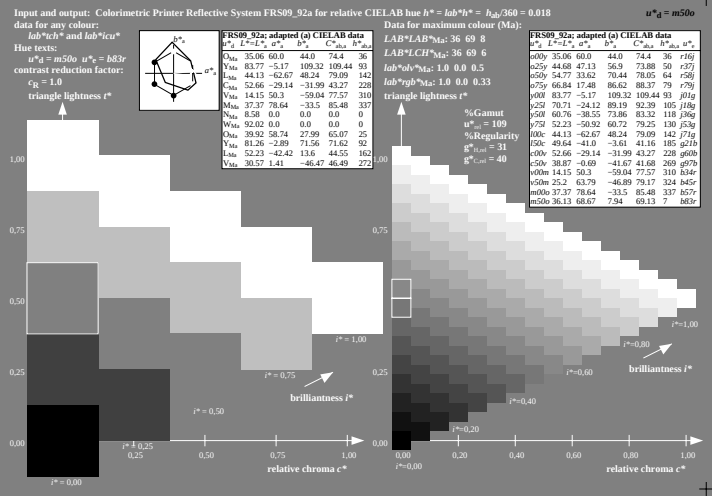
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = m50o$ $u^*_e = b83r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

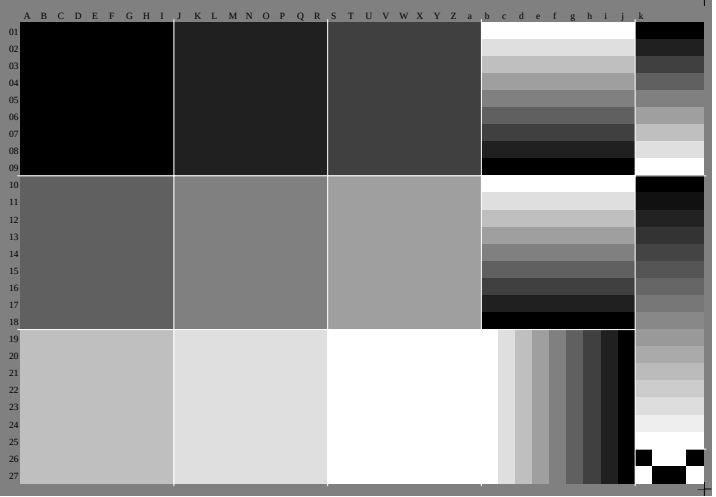
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 36 69 8
$LAB^*LCH^*_{Ma}$: 36 69 6
$lab^*olv^*_{Ma}$: 1.0 0.0 0.5
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.33
triangle lightness t^*

%Gamut $u^*_{ce} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92a; adapted (a) CIELAB data

	L^*_{ce}	a^*_{ce}	b^*_{ce}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_{ce}
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*
Y_{Ma}	83.77	−5.17	109.32	109.44	93	
L_{Ma}	44.13	−62.67	48.24	79.09	142	
C_{Ma}	52.66	−29.14	−31.99	43.27	228	
V_{Ma}	14.15	50.3	−59.04	77.57	310	
M_{Ma}	37.37	78.64	−33.5	85.48	337	
N_{Ma}	8.58	0.0	0.0	0.0	0	
W_{Ma}	92.02	0.0	0.0	0.0	0	
O_{Ma}	39.92	58.74	27.99	65.07	25	
Y_{Ma}	81.26	−2.89	71.56	71.62	92	
L_{Ma}	52.23	−42.42	13.6	44.55	162	
V_{Ma}	30.57	1.41	−46.47	46.49	272	
e00y	35.06	60.0	44.0	74.4	36	*r16j*
a25y	44.68	47.13	56.9	73.88	50	*r37j*
o50y	54.77	33.62	70.44	78.05	64	*r58j*
b75y	66.84	17.48	86.62	88.37	79	*r79j*
y00l	83.77	−5.17	109.32	109.44	93	*j01g*
y25l	70.71	−24.12	89.19	92.39	105	*j18g*
y50l	60.76	−38.55	73.86	83.32	118	*j36g*
y75l	52.23	−50.92	60.72	79.25	130	*j53g*
l00c	44.13	−62.67	48.24	79.09	142	*j71g*
l50c	49.64	−41.0	−3.61	41.16	185	*g21b*
c00v	52.66	−29.14	−31.99	43.27	228	*g60b*
c50v	38.87	−0.69	−41.67	41.68	269	*g97b*
v00m	14.15	50.3	−59.04	77.57	310	*b34r*
v50m	25.2	63.79	−46.89	79.17	324	*b45r*
m00o	37.37	78.64	−33.5	85.48	337	*b57r*
m50o	36.13	68.67	7.94	69.13	7	*b83r*



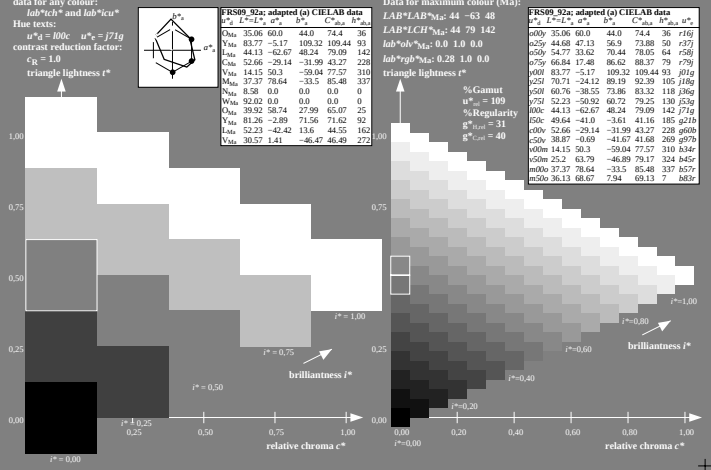


Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.396$ — $u^*_d = l00c$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = l00c$ $u^*_e = j71g$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 44 −63 48
$LAB^*LCH^*_{Ma}$: 44 79 142
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
$lab^*rgb^*_{Ma}$: 0.28 1.0 0.0
triangle lightness t^*

FRS09_92a; adapted (a) CIELAB data									
u^*_d	$L^*_{ab}L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e			
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*			
Y_{Ma}	83.77	−5.17	109.32	109.44	93	*r37j*			
L_{Ma}	44.13	−62.67	48.24	79.09	142	*o50y*	54.77	33.62	70.44	78.05	64	*r58j*
C_{Ma}	52.66	−29.14	−31.99	43.27	228	*b75y*	66.84	17.48	86.62	88.37	79	*r79j*
V_{Ma}	14.15	50.3	−59.04	77.57	310	*y00l*	83.77	−5.17	109.32	109.44	93	*j01g*
M_{Ma}	37.37	78.64	−33.5	85.48	337	*y25l*	70.71	−24.12	89.19	92.39	105	*j18g*
N_{Ma}	8.58	0.0	0.0	0.0	0	*y50l*	60.76	−38.55	73.86	83.32	118	*j36g*
W_{Ma}	92.02	0.0	0.0	0.0	0	*y75l*	52.23	−50.92	60.72	79.25	130	*f53g*
O_{Ma}	39.92	58.74	27.99	65.07	25	*l00c*	44.13	−62.67	48.24	79.09	142	*f71g*
Y_{Ma}	81.26	−2.89	71.56	71.62	92	*l50c*	49.64	−41.0	−3.61	41.16	185	*g21b*
L_{Ma}	52.23	−42.42	13.6	44.55	162	*c00v*	52.66	−29.14	−31.99	43.27	228	*g60b*
V_{Ma}	30.57	1.41	−46.47	46.49	272	*c50v*	38.87	−0.69	−41.67	41.68	269	*g97b*
						v00m	14.15	50.3	−59.04	77.57	310	*b34v*
						v50m	25.2	63.79	−46.89	79.17	324	*b45v*
						m00o	37.37	78.64	−33.5	85.48	337	*b57v*
						m50o	36.13	68.67	7.94	69.13	7	*b83v*

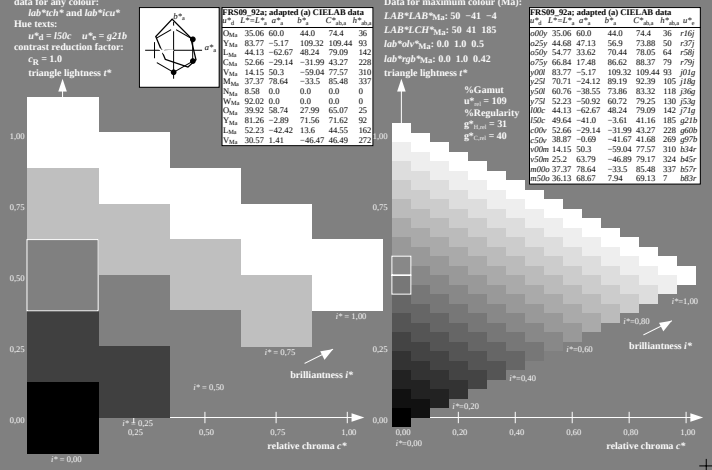


Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.514$ — $u^*_d = l50c$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = l50c$ $u^*_e = g21b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 50 −41 −4
$LAB^*LCH^*_{Ma}$: 50 41 185
$lab^*olv^*_{Ma}$: 0.0 1.0 0.5
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.42
triangle lightness t^*

FRS09_92a; adapted (a) CIELAB data									
u^*_d	$L^*_{ab}L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e			
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*			
Y_{Ma}	83.77	−5.17	109.32	109.44	93	*r37j*			
L_{Ma}	44.13	−62.67	48.24	79.09	142	*o50y*	54.77	33.62	70.44	78.05	64	*r58j*
C_{Ma}	52.66	−29.14	−31.99	43.27	228	*b75y*	66.84	17.48	86.62	88.37	79	*r79j*
V_{Ma}	14.15	50.3	−59.04	77.57	310	*y00l*	83.77	−5.17	109.32	109.44	93	*j01g*
M_{Ma}	37.37	78.64	−33.5	85.48	337	*y25l*	70.71	−24.12	89.19	92.39	105	*j18g*
N_{Ma}	8.58	0.0	0.0	0.0	0	*y50l*	60.76	−38.55	73.86	83.32	118	*j36g*
W_{Ma}	92.02	0.0	0.0	0.0	0	*y75l*	52.23	−50.92	60.72	79.25	130	*f53g*
O_{Ma}	39.92	58.74	27.99	65.07	25	*l00c*	44.13	−62.67	48.24	79.09	142	*f71g*
Y_{Ma}	81.26	−2.89	71.56	71.62	92	*l50c*	49.64	−41.0	−3.61	41.16	185	*g21b*
L_{Ma}	52.23	−42.42	13.6	44.55	162	*c00v*	52.66	−29.14	−31.99	43.27	228	*g60b*
V_{Ma}	30.57	1.41	−46.47	46.49	272	*c50v*	38.87	−0.69	−41.67	41.68	269	*g97b*
						v00m	14.15	50.3	−59.04	77.57	310	*b34v*
						v50m	25.2	63.79	−46.89	79.17	324	*b45v*
						m00o	37.37	78.64	−33.5	85.48	337	*b57v*
						m50o	36.13	68.67	7.94	69.13	7	*b83v*

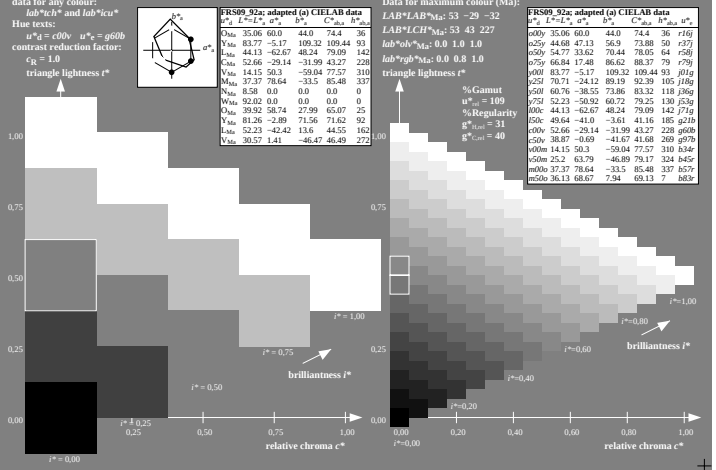


Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.632$ — $u^*_d = c00v$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = c00v$ $u^*_e = g60b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 53 −29 −32
$LAB^*LCH^*_{Ma}$: 53 43 227
$lab^*olv^*_{Ma}$: 0.0 1.0 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.8 1.0
triangle lightness t^*

FRS09_92a; adapted (a) CIELAB data									
u^*_d	$L^*_{ab}L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e			
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*			
Y_{Ma}	83.77	−5.17	109.32	109.44	93	*r37j*			
L_{Ma}	44.13	−62.67	48.24	79.09	142	*o50y*	54.77	33.62	70.44	78.05	64	*r58j*
C_{Ma}	52.66	−29.14	−31.99	43.27	228	*b75y*	66.84	17.48	86.62	88.37	79	*r79j*
V_{Ma}	14.15	50.3	−59.04	77.57	310	*y00l*	83.77	−5.17	109.32	109.44	93	*j01g*
M_{Ma}	37.37	78.64	−33.5	85.48	337	*y25l*	70.71	−24.12	89.19	92.39	105	*j18g*
N_{Ma}	8.58	0.0	0.0	0.0	0	*y50l*	60.76	−38.55	73.86	83.32	118	*j36g*
W_{Ma}	92.02	0.0	0.0	0.0	0	*y75l*	52.23	−50.92	60.72	79.25	130	*f53g*
O_{Ma}	39.92	58.74	27.99	65.07	25	*l00c*	44.13	−62.67	48.24	79.09	142	*f71g*
Y_{Ma}	81.26	−2.89	71.56	71.62	92	*l50c*	49.64	−41.0	−3.61	41.16	185	*g21b*
L_{Ma}	52.23	−42.42	13.6	44.55	162	*c00v*	52.66	−29.14	−31.99	43.27	228	*g60b*
V_{Ma}	30.57	1.41	−46.47	46.49	272	*c50v*	38.87	−0.69	−41.67	41.68	269	*g97b*
						v00m	14.15	50.3	−59.04	77.57	310	*b34v*
						v50m	25.2	63.79	−46.89	79.17	324	*b45v*
						m00o	37.37	78.64	−33.5	85.48	337	*b57v*
						m50o	36.13	68.67	7.94	69.13	7	*b83v*

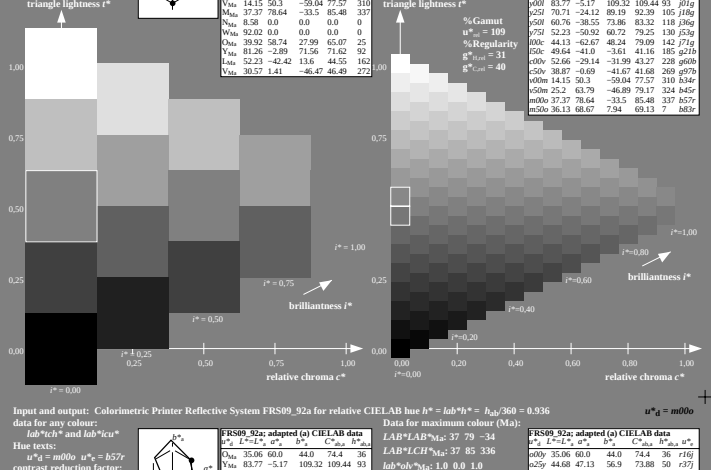


Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.747$ — $u^*_d = c50v$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = c50v$ $u^*_e = g97b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 39 −1 −42
$LAB^*LCH^*_{Ma}$: 39 42 269
$lab^*olv^*_{Ma}$: 0.0 0.5 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.05 1.0
triangle lightness t^*

FRS09_92a; adapted (a) CIELAB data									
u^*_d	$L^*_{ab}L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e			
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*			
Y_{Ma}	83.77	−5.17	109.32	109.44	93	*r37j*			
L_{Ma}	44.13	−62.67	48.24	79.09	142	*o50y*	54.77	33.62	70.44	78.05	64	*r58j*
C_{Ma}	52.66	−29.14	−31.99	43.27	228	*b75y*	66.84	17.48	86.62	88.37	79	*r79j*
V_{Ma}	14.15	50.3	−59.04	77.57	310	*y00l*	83.77	−5.17	109.32	109.44	93	*j01g*
M_{Ma}	37.37	78.64	−33.5	85.48	337	*y25l*	70.71	−24.12	89.19	92.39	105	*j18g*
N_{Ma}	8.58	0.0	0.0	0.0	0	*y50l*	60.76	−38.55	73.86	83.32	118	*j36g*
W_{Ma}	92.02	0.0	0.0	0.0	0	*y75l*	52.23	−50.92	60.72	79.25	130	*f53g*
O_{Ma}	39.92	58.74	27.99	65.07	25	*l00c*	44.13	−62.67	48.24	79.09	142	*f71g*
Y_{Ma}	81.26	−2.89	71.56	71.62	92	*l50c*	49.64	−41.0	−3.61	41.16	185	*g21b*
L_{Ma}	52.23	−42.42	13.6	44.55	162	*c00v*	52.66	−29.14	−31.99	43.27	228	*g60b*
V_{Ma}	30.57	1.41	−46.47	46.49	272	*c50v*	38.87	−0.69	−41.67	41.68	269	*g97b*
						v00m	14.15	50.3	−59.04	77.57	310	*b34v*
						v50m	25.2	63.79	−46.89	79.17	324	*b45v*
						m00o	37.37	78.64	−33.5	85.48	337	*b57v*
						m50o	36.13	68.67	7.94	69.13	7	*b83v*

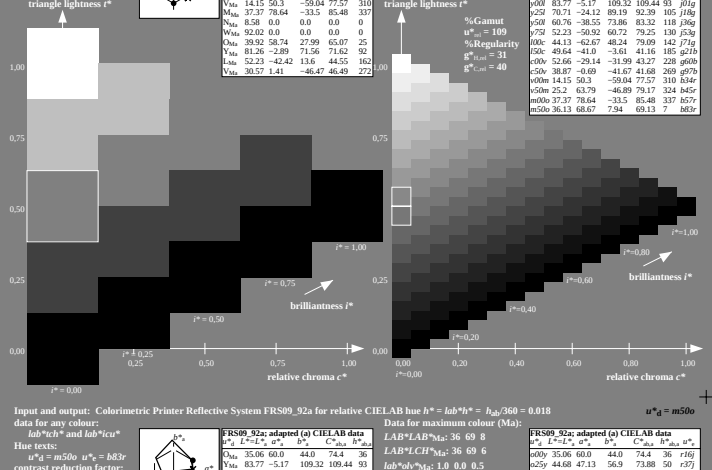


Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.862$ — $u^*_d = v00m$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = v00m$ $u^*_e = b34r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 14 50 −59
$LAB^*LCH^*_{Ma}$: 14 78 310
$lab^*olv^*_{Ma}$: 0.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.68 0.0 1.0
triangle lightness t^*

FRS09_92a; adapted (a) CIELAB data									
u^*_d	$L^*_{ab}L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e			
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*			
Y_{Ma}	83.77	−5.17	109.32	109.44	93	*r37j*			
L_{Ma}	44.13	−62.67	48.24	79.09	142	*o50y*	54.77	33.62	70.44	78.05	64	*r58j*
C_{Ma}	52.66	−29.14	−31.99	43.27	228	*b75y*	66.84	17.48	86.62	88.37	79	*r79j*
V_{Ma}	14.15	50.3	−59.04	77.57	310	*y00l*	83.77	−5.17	109.32	109.44	93	*j01g*
M_{Ma}	37.37	78.64	−33.5	85.48	337	*y25l*	70.71	−24.12	89.19	92.39	105	*j18g*
N_{Ma}	8.58	0.0	0.0	0.0	0	*y50l*	60.76	−38.55	73.86	83.32	118	*j36g*
W_{Ma}	92.02	0.0	0.0	0.0	0	*y75l*	52.23	−50.92	60.72	79.25	130	*f53g*
O_{Ma}	39.92	58.74	27.99	65.07	25	*l00c*	44.13	−62.67	48.24	79.09	142	*f71g*
Y_{Ma}	81.26	−2.89	71.56	71.62	92	*l50c*	49.64	−41.0	−3.61	41.16	185	*g21b*
L_{Ma}	52.23	−42.42	13.6	44.55	162	*c00v*	52.66	−29.14	−31.99	43.27	228	*g60b*
V_{Ma}	30.57	1.41	−46.47	46.49	272	*c50v*	38.87	−0.69	−41.67	41.68	269	*g97b*
						v00m	14.15	50.3	−59.04	77.57	310	*b34v*
						v50m	25.2	63.79	−46.89	79.17	324	*b45v*
						m00o	37.37	78.64	−33.5	85.48	337	*b57v*
						m50o	36.13	68.67	7.94	69.13	7	*b83v*

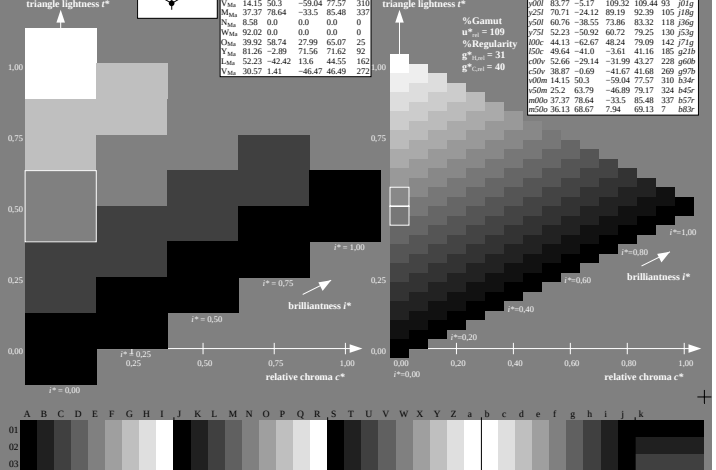


Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.899$ — $u^*_d = v50m$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = v50m$ $u^*_e = b45r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 25 64 −47
$LAB^*LCH^*_{Ma}$: 25 79 323
$lab^*olv^*_{Ma}$: 0.5 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.91 0.0 1.0
triangle lightness t^*

FRS09_92a; adapted (a) CIELAB data									
u^*_d	$L^*_{ab}L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e			
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*			
Y_{Ma}	83.77	−5.17	109.32	109.44	93	*r37j*			
L_{Ma}	44.13	−62.67	48.24	79.09	142	*o50y*	54.77	33.62	70.44	78.05	64	*r58j*
C_{Ma}	52.66	−29.14	−31.99	43.27	228	*b75y*	66.84	17.48	86.62	88.37	79	*r79j*
V_{Ma}	14.15	50.3	−59.04	77.57	310	*y00l*	83.77	−5.17	109.32	109.44	93	*j01g*
M_{Ma}	37.37	78.64	−33.5	85.48	337	*y25l*	70.71	−24.12	89.19	92.39	105	*j18g*
N_{Ma}	8.58	0.0	0.0	0.0	0	*y50l*	60.76	−38.55	73.86	83.32	118	*j36g*
W_{Ma}	92.02	0.0	0.0	0.0	0	*y75l*	52.23	−50.92	60.72	79.25	130	*f53g*
O_{Ma}	39.92	58.74	27.99	65.07	25	*l00c*	44.13	−62.67	48.24	79.09	142	*f71g*
Y_{Ma}	81.26	−2.89	71.56	71.62	92	*l50c*	49.64	−41.0	−3.61	41.16	185	*g21b*
L_{Ma}	52.23	−42.42	13.6	44.55	162	*c00v*	52.66	−29.14	−31.99	43.27	228	*g60b*
V_{Ma}	30.57	1.41	−46.47	46.49	272	*c50v*	38.87	−0.69	−41.67	41.68	269	*g97b*
						v00m	14.15	50.3	−59.04	77.57	310	*b34v*
						v50m	25.2	63.79	−46.89	79.17	324	*b45v*
						m00o	37.37	78.64	−33.5	85.48	337	*b57v*
						m50o	36.13	68.67	7.94	69.13	7	*b83v*

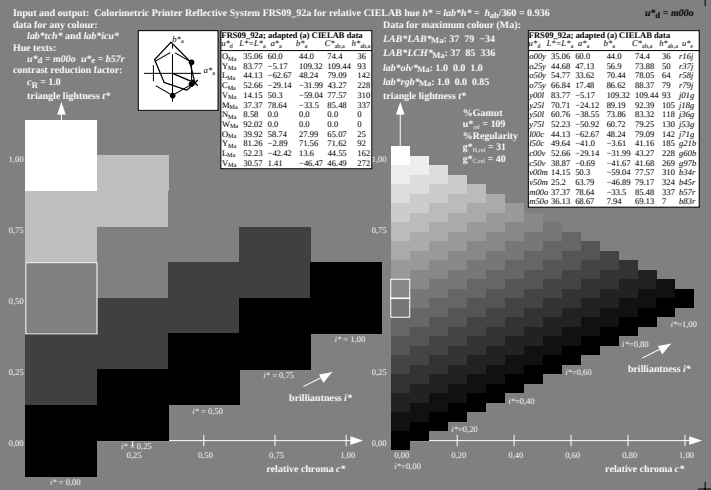


Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.936$ — $u^*_d = m00o$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = m00o$ $u^*_e = b57r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 37 79 −34
$LAB^*LCH^*_{Ma}$: 37 85 336
$lab^*olv^*_{Ma}$: 1.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.85
triangle lightness t^*

FRS09_92a; adapted (a) CIELAB data									
u^*_d	$L^*_{ab}L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e			
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*			
Y_{Ma}	83.77	−5.17	109.32	109.44	93	*r37j*			
L_{Ma}	44.13	−62.67	48.24	79.09	142	*o50y*	54.77	33.62	70.44	78.05	64	*r58j*
C_{Ma}	52.66	−29.14	−31.99	43.27	228	*b75y*	66.84	17.48	86.62	88.37	79	*r79j*
V_{Ma}	14.15	50.3	−59.04	77.57	310	*y00l*	83.77	−5.17	109.32	109.44	93	*j01g*
M_{Ma}	37.37	78.64	−33.5	85.48	337	*y25l*	70.71	−24.12	89.19	92.39	105	*j18g*
N_{Ma}	8.58	0.0	0.0	0.0	0	*y50l*	60.76	−38.55	73.86	83.32	118	*j36g*
W_{Ma}	92.02	0.0	0.0	0.0	0	*y75l*	52.23	−50.92	60.72	79.25	130	*f53g*
O_{Ma}	39.92	58.74	27.99	65.07	25	*l00c*	44.13	−62.67	48.24	79.09	142	*f71g*
Y_{Ma}	81.26	−2.89	71.56	71.62	92	*l50c*	49.64	−41.0	−3.61	41.16	185	*g21b*
L_{Ma}	52.23	−42.42	13.6	44.55	162	*c00v*	52.66	−29.14	−31.99	43.27	228	*g60b*
V_{Ma}	30.57	1.41	−46.47	46.49	272	*c50v*	38.87	−0.69	−41.67	41.68	269	*g97b*
						v00m	14.15	50.3	−59.04	77.57	310	*b34v*
						v50m	25.2	63.79	−46.89	79.17	324	*b45v*
						m00o	37.37	78.64	−33.5	85.48	337	*b57v*
						m50o	36.13	68.67	7.94	69.13	7	*b83v*

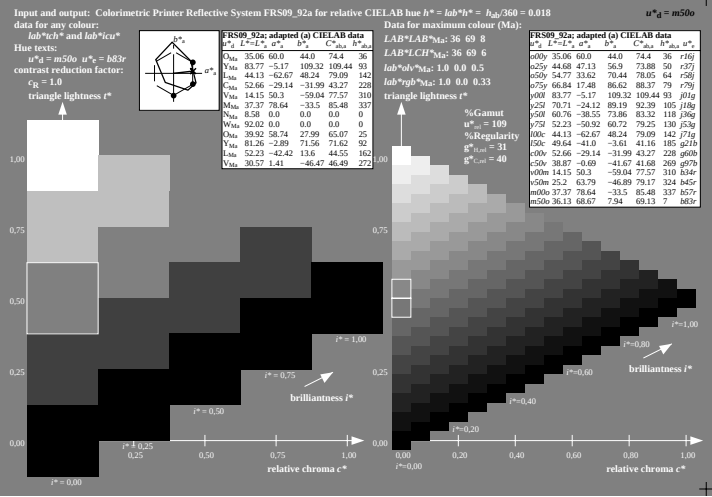


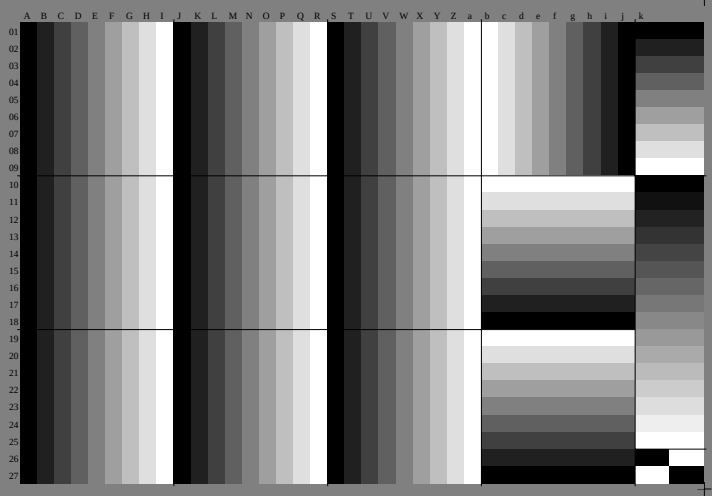
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.018$ — $u^*_d = m50o$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = m50o$ $u^*_e = b83r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 36 69 8
$LAB^*LCH^*_{Ma}$: 36 69 6
$lab^*olv^*_{Ma}$: 1.0 0.0 0.5
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.33
triangle lightness t^*

FRS09_92a; adapted (a) CIELAB data									
u^*_d	$L^*_{ab}L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e			
O_{Ma}	35.06	60.0	44.0	74.4	36	*r16j*			
Y_{Ma}	83.77	−5.17	109.32	109.44	93	*r37j*			
L_{Ma}	44.13	−62.67	48.24	79.09	142	*o50y*	54.77	33.62	70.44	78.05	64	*r58j*
C_{Ma}	52.66	−29.14	−31.99	43.27	228	*b75y*	66.84	17.48	86.62	88.37	79	*r79j*
V_{Ma}	14.15	50.3	−59.04	77.57	310	*y00l*	83.77	−5.17	109.32	109.44	93	*j01g*
M_{Ma}	37.37	78.64	−33.5	85.48	337	*y25l*	70.71	−24.12	89.19	92.39	105	*j18g*
N_{Ma}	8.58	0.0	0.0	0.0	0	*y50l*	60.76	−38.55	73.86	83.32	118	*j36g*
W_{Ma}	92.02	0.0	0.0	0.0	0	*y75l*	52.23	−50.92	60.72	79.25	130	*f53g*
O_{Ma}	39.92	58.74	27.99	65.07	25	*l00c*	44.13	−62.67	48.24	79.09	142	*f71g*
Y_{Ma}	81.26	−2.89	71.56	71.62	92	*l50c*	49.64	−41.0	−3.61	41.16	185	*g21b*
L_{Ma}	52.23	−42.42	13.6	44.55	162	*c00v*	52.66	−29.14	−31.99	43.27	228	*g60b*
V_{Ma}	30.57	1.41	−46.47	46.49	272	*c50v*	38.87	−0.69	−41.67	41.68	269	*g97b*
						v00m	14.15	50.3	−59.04	77.57	310	*b34v*
						v50m	25.2	63.79	−46.89	79.17	324	*b45v*
						m00o	37.37	78.64	−33.5	85.48	337	*b57v*
						m50o	36.13	68.67	7.94	69.13	7	*b83v*



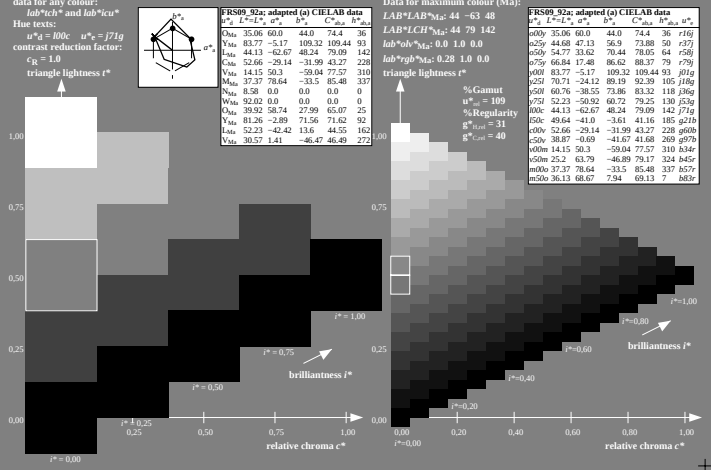


Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.396$ — $u^*_d = l00c$

data for any colour: *lab*tch** and *lab*icu**
Hue texts: $u^*_d = l00c$ $u^*_e = j71g$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 44 −63 48
$LAB^*LCH^*_{Ma}$: 44 79 142
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
$lab^*rgb^*_{Ma}$: 0.28 1.0 0.0
triangle lightness t^*

%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data

u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

FRS09_92a; adapted (a) CIELAB data

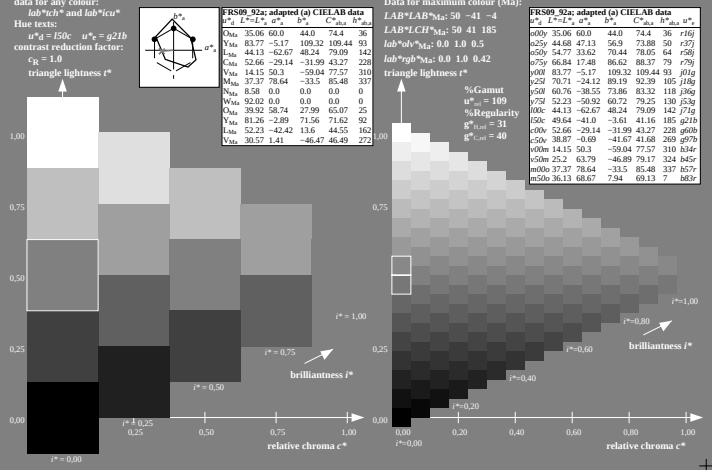
u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00v	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.514$ — $u^*_d = l50c$

data for any colour: *lab*tch** and *lab*icu**
Hue texts: $u^*_d = l50c$ $u^*_e = g21b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 50 −41 −4
$LAB^*LCH^*_{Ma}$: 50 41 185
$lab^*olv^*_{Ma}$: 0.0 1.0 0.5
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.42
triangle lightness t^*

%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data

u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

FRS09_92a; adapted (a) CIELAB data

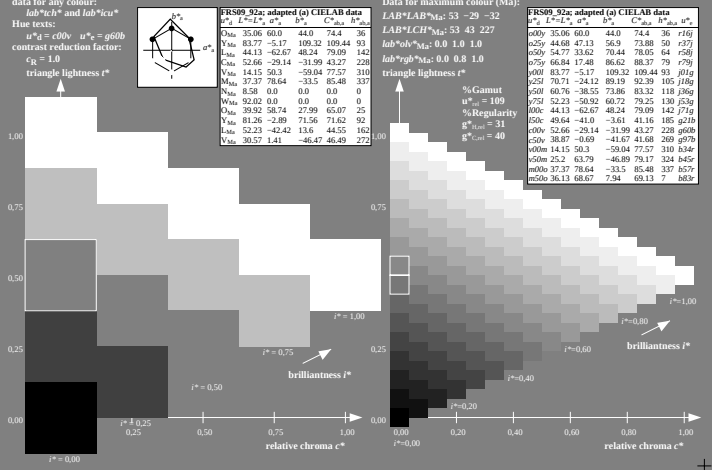
u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00v	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.632$ — $u^*_d = c00v$

data for any colour: *lab*tch** and *lab*icu**
Hue texts: $u^*_d = c00v$ $u^*_e = g60b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 53 −29 −32
$LAB^*LCH^*_{Ma}$: 53 43 227
$lab^*olv^*_{Ma}$: 0.0 1.0 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.8 1.0
triangle lightness t^*

%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data

u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

FRS09_92a; adapted (a) CIELAB data

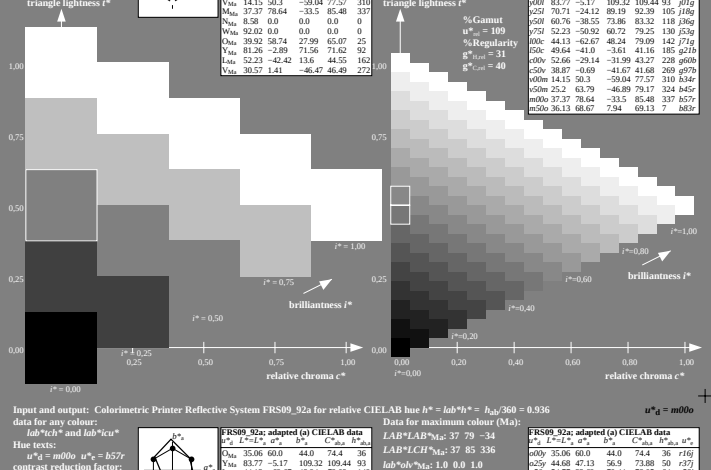
u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00v	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.747$ — $u^*_d = c50v$

data for any colour: *lab*tch** and *lab*icu**
Hue texts: $u^*_d = c50v$ $u^*_e = g97b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 39 −1 −42
$LAB^*LCH^*_{Ma}$: 39 42 269
$lab^*olv^*_{Ma}$: 0.0 0.5 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.05 1.0
triangle lightness t^*

%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data

u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

FRS09_92a; adapted (a) CIELAB data

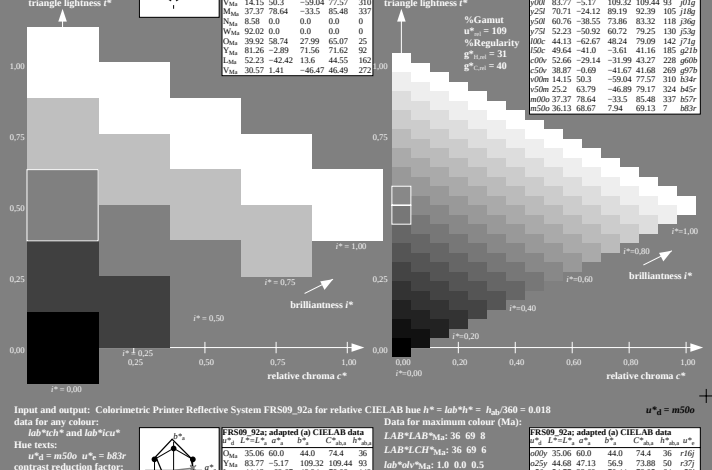
u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00v	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.862$ — $u^*_d = v00m$

data for any colour: *lab*tch** and *lab*icu**
Hue texts: $u^*_d = v00m$ $u^*_e = b34r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 14 50 −59
$LAB^*LCH^*_{Ma}$: 14 78 310
$lab^*olv^*_{Ma}$: 0.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.68 0.0 1.0
triangle lightness t^*

%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data

u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

FRS09_92a; adapted (a) CIELAB data

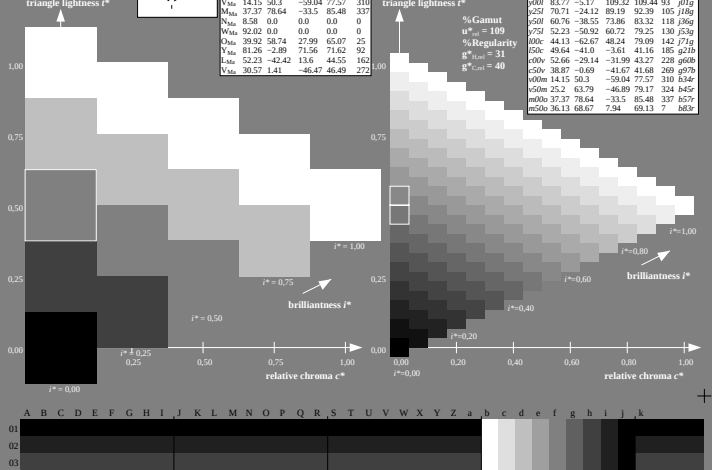
u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00v	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.899$ — $u^*_d = v50m$

data for any colour: *lab*tch** and *lab*icu**
Hue texts: $u^*_d = v50m$ $u^*_e = b45r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 25 64 −47
$LAB^*LCH^*_{Ma}$: 25 79 323
$lab^*olv^*_{Ma}$: 0.5 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.91 0.0 1.0
triangle lightness t^*

%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data

u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

FRS09_92a; adapted (a) CIELAB data

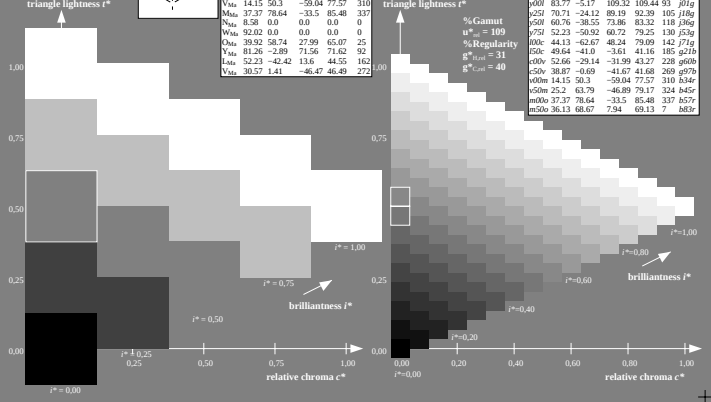
u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00v	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.936$ — $u^*_d = m00o$

data for any colour: *lab*tch** and *lab*icu**
Hue texts: $u^*_d = m00o$ $u^*_e = b57r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 37 79 −34
$LAB^*LCH^*_{Ma}$: 37 85 336
$lab^*olv^*_{Ma}$: 1.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.85
triangle lightness t^*

%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data

u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

FRS09_92a; adapted (a) CIELAB data

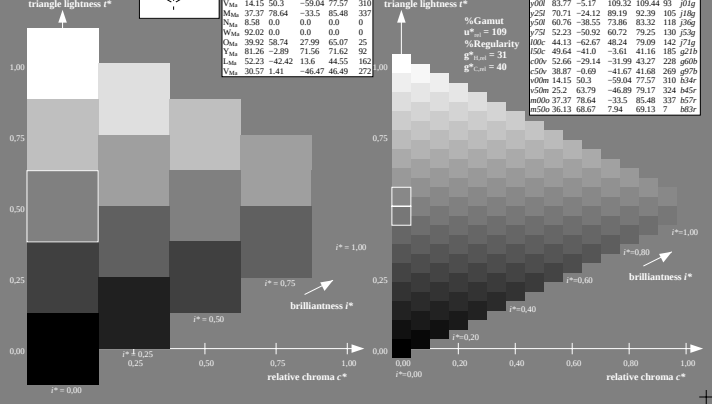
u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00v	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
v50m	25.2	63.79	−46.89	79.17	324	b45r
m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.018$ — $u^*_d = m50o$

data for any colour: *lab*tch** and *lab*icu**
Hue texts: $u^*_d = m50o$ $u^*_e = b83r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

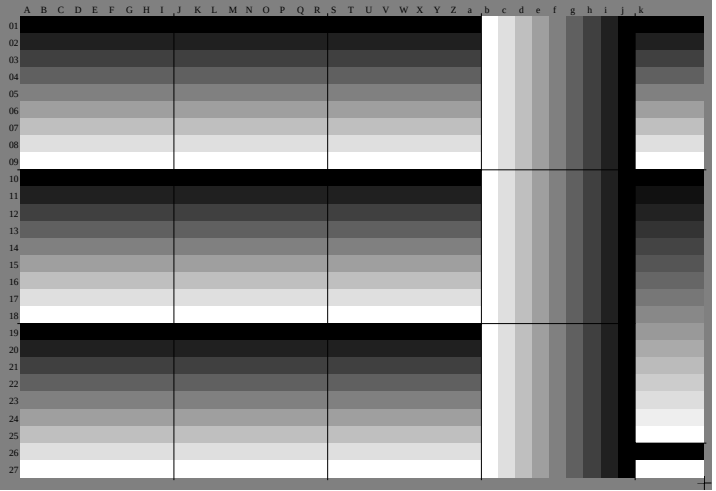
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 36 69 8
$LAB^*LCH^*_{Ma}$: 36 69 6
$lab^*olv^*_{Ma}$: 1.0 0.0 0.5
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.33
triangle lightness t^*

%Gamut $u^*_{ab} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data

u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
O_{Ma}	39.92	58.74	27.99	65.07	25
Y_{Ma}	81.26	−2.89	71.56	71.62	92
L_{Ma}	52.23	−42.42	13.6	44.55	162
V_{Ma}	30.57	1.41	−46.47	46.49	272

FRS09_92a; adapted (a) CIELAB data

u^*_d	L^*_{CIELAB}	a^*_{CIELAB}	b^*_{CIELAB}	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g
y75l	52.23	−50.92	60.72	79.25	130	j53g
l00c	44.13	−62.67	48.24	79.09	142	j71g
l50c	49.64	−41.0	−3.61	41.16	185	g21b
c00v	52.66	−29.14	−31.99	43.27	228	g60b
c50v	38.87	−0.69	−41.67	41.68	269	g97b
v00m	14.15	50.3	−59.04	77.57	310	b34r
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m00o	37.37	78.64	−33.5	85.48	337	b57r
m50o	36.13	68.67	7.94	69.13	7	b83r