Input and output: Colorimetric Printer Reflective System FRS09_92, L*=09_92 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$ $u^*_c = g00b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_c = g00b$ $u^*_d = f23c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

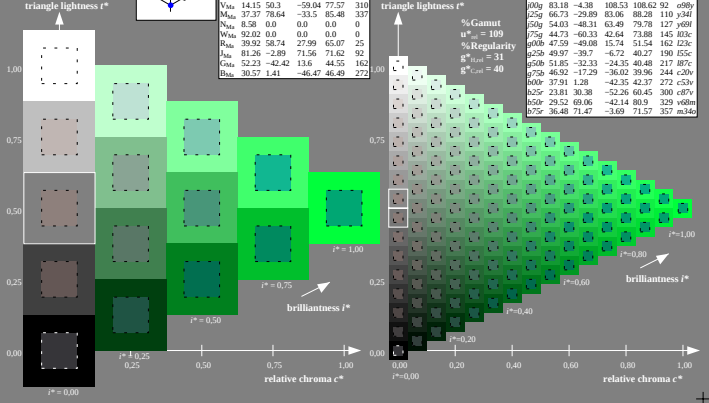
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 48 −49 16
$LAB^*LCH^*_{Ma}$: 48 52 162
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.23
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}
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
R_{Ma}	39.92	58.74	27.99	65.07	25
I_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}	u^*_d
r00j	35.47	63.32	30.17	70.15	25	m81c
r25j	39.12	54.56	49.45	73.64	42	o10y
r50j	50.64	39.15	64.89	75.79	59	o40y
r75j	64.01	21.26	82.83	85.52	76	o69y
y00g	83.18	−4.38	108.53	108.62	92	o98y
y25g	66.73	−29.89	83.06	88.28	110	y34l
y50g	54.03	−48.31	63.49	79.78	127	y69l
y75g	44.73	−60.33	42.64	73.88	145	l03c
g00b	47.59	−49.08	15.74	51.54	162	l23c
g25b	49.97	−39.7	−6.72	40.27	190	l55c
g50b	51.85	−32.33	−24.35	40.48	217	l87c
g75b	46.92	−17.29	−36.02	39.96	244	c20v
b00r	37.91	1.28	−42.35	42.37	272	c53v
b25r	23.81	30.38	−52.26	60.45	300	c87v
b50r	29.52	69.06	−42.14	80.9	329	v68m
b75r	36.48	71.47	−3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS09_92, L*=09_92 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.527$ $u^*_c = g25b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_c = g25b$ $u^*_d = f55c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

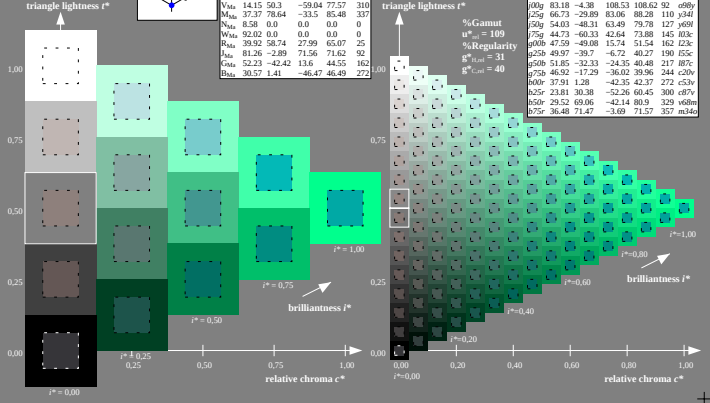
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 50 −40 −7
$LAB^*LCH^*_{Ma}$: 50 40 189
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.5
$lab^*olv^*_{Ma}$: 0.0 1.0 0.55
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}
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
R_{Ma}	39.92	58.74	27.99	65.07	25
I_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}	u^*_d
r00j	35.47	63.32	30.17	70.15	25	m81c
r25j	39.12	54.56	49.45	73.64	42	o10y
r50j	50.64	39.15	64.89	75.79	59	o40y
r75j	64.01	21.26	82.83	85.52	76	o69y
y00g	83.18	−4.38	108.53	108.62	92	o98y
y25g	66.73	−29.89	83.06	88.28	110	y34l
y50g	54.03	−48.31	63.49	79.78	127	y69l
y75g	44.73	−60.33	42.64	73.88	145	l03c
g00b	47.59	−49.08	15.74	51.54	162	l23c
g25b	49.97	−39.7	−6.72	40.27	190	l55c
g50b	51.85	−32.33	−24.35	40.48	217	l87c
g75b	46.92	−17.29	−36.02	39.96	244	c20v
b00r	37.91	1.28	−42.35	42.37	272	c53v
b25r	23.81	30.38	−52.26	60.45	300	c87v
b50r	29.52	69.06	−42.14	80.9	329	v68m
b75r	36.48	71.47	−3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS09_92, L*=09_92 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.603$ $u^*_c = g50b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_c = g50b$ $u^*_d = l87c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

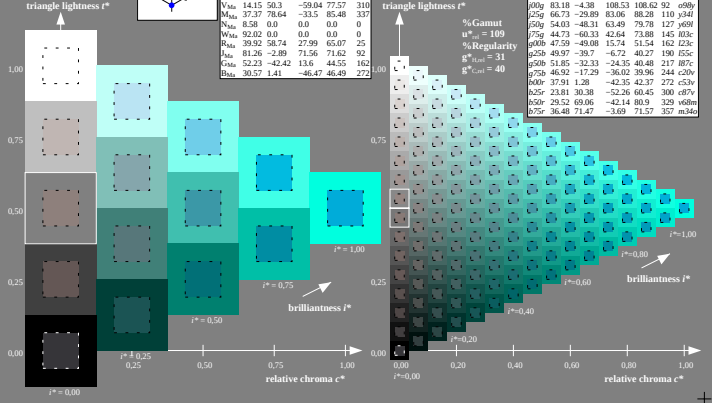
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 52 −32 −24
$LAB^*LCH^*_{Ma}$: 52 40 216
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.87
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}
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
R_{Ma}	39.92	58.74	27.99	65.07	25
I_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}	u^*_d
r00j	35.47	63.32	30.17	70.15	25	m81c
r25j	39.12	54.56	49.45	73.64	42	o10y
r50j	50.64	39.15	64.89	75.79	59	o40y
r75j	64.01	21.26	82.83	85.52	76	o69y
y00g	83.18	−4.38	108.53	108.62	92	o98y
y25g	66.73	−29.89	83.06	88.28	110	y34l
y50g	54.03	−48.31	63.49	79.78	127	y69l
y75g	44.73	−60.33	42.64	73.88	145	l03c
g00b	47.59	−49.08	15.74	51.54	162	l23c
g25b	49.97	−39.7	−6.72	40.27	190	l55c
g50b	51.85	−32.33	−24.35	40.48	217	l87c
g75b	46.92	−17.29	−36.02	39.96	244	c20v
b00r	37.91	1.28	−42.35	42.37	272	c53v
b25r	23.81	30.38	−52.26	60.45	300	c87v
b50r	29.52	69.06	−42.14	80.9	329	v68m
b75r	36.48	71.47	−3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS09_92, L*=09_92 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.679$ $u^*_c = g75b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_c = g75b$ $u^*_d = c20v$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

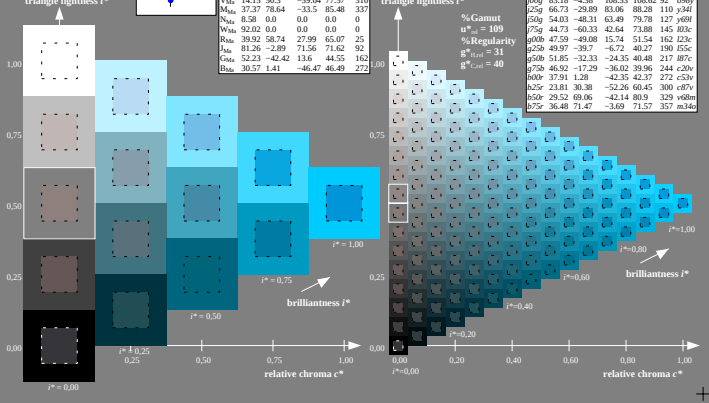
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 47 −17 −36
$LAB^*LCH^*_{Ma}$: 47 40 244
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
$lab^*olv^*_{Ma}$: 0.0 0.8 1.0
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}
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
R_{Ma}	39.92	58.74	27.99	65.07	25
I_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}	u^*_d
r00j	35.47	63.32	30.17	70.15	25	m81c
r25j	39.12	54.56	49.45	73.64	42	o10y
r50j	50.64	39.15	64.89	75.79	59	o40y
r75j	64.01	21.26	82.83	85.52	76	o69y
y00g	83.18	−4.38	108.53	108.62	92	o98y
y25g	66.73	−29.89	83.06	88.28	110	y34l
y50g	54.03	−48.31	63.49	79.78	127	y69l
y75g	44.73	−60.33	42.64	73.88	145	l03c
g00b	47.59	−49.08	15.74	51.54	162	l23c
g25b	49.97	−39.7	−6.72	40.27	190	l55c
g50b	51.85	−32.33	−24.35	40.48	217	l87c
g75b	46.92	−17.29	−36.02	39.96	244	c20v
b00r	37.91	1.28	−42.35	42.37	272	c53v
b25r	23.81	30.38	−52.26	60.45	300	c87v
b50r	29.52	69.06	−42.14	80.9	329	v68m
b75r	36.48	71.47	−3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS09_92, L*=09_92 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.755$ $u^*_c = b00r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_c = b00r$ $u^*_d = c53v$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

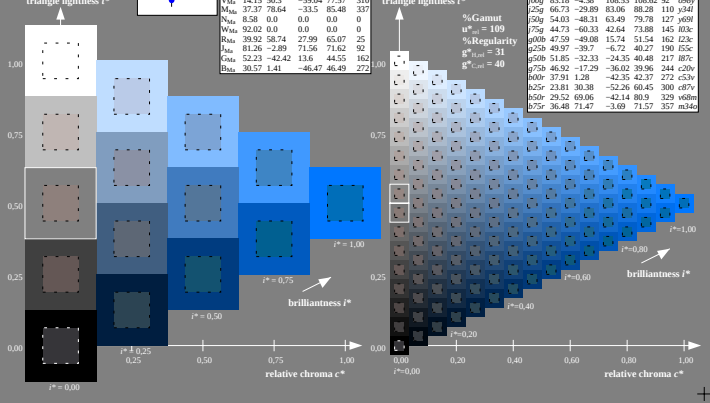
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 38 1 −42
$LAB^*LCH^*_{Ma}$: 38 42 271
$lab^*rgb^*_{Ma}$: 0.0 0.0 1.0
$lab^*olv^*_{Ma}$: 0.0 0.47 1.0
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}
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
R_{Ma}	39.92	58.74	27.99	65.07	25
I_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}	u^*_d
r00j	35.47	63.32	30.17	70.15	25	m81c
r25j	39.12	54.56	49.45	73.64	42	o10y
r50j	50.64	39.15	64.89	75.79	59	o40y
r75j	64.01	21.26	82.83	85.52	76	o69y
y00g	83.18	−4.38	108.53	108.62	92	o98y
y25g	66.73	−29.89	83.06	88.28	110	y34l
y50g	54.03	−48.31	63.49	79.78	127	y69l
y75g	44.73	−60.33	42.64	73.88	145	l03c
g00b	47.59	−49.08	15.74	51.54	162	l23c
g25b	49.97	−39.7	−6.72	40.27	190	l55c
g50b	51.85	−32.33	−24.35	40.48	217	l87c
g75b	46.92	−17.29	−36.02	39.96	244	c20v
b00r	37.91	1.28	−42.35	42.37	272	c53v
b25r	23.81	30.38	−52.26	60.45	300	c87v
b50r	29.52	69.06	−42.14	80.9	329	v68m
b75r	36.48	71.47	−3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS09_92, L*=09_92 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.834$ $u^*_c = b25r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_c = b25r$ $u^*_d = c87v$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

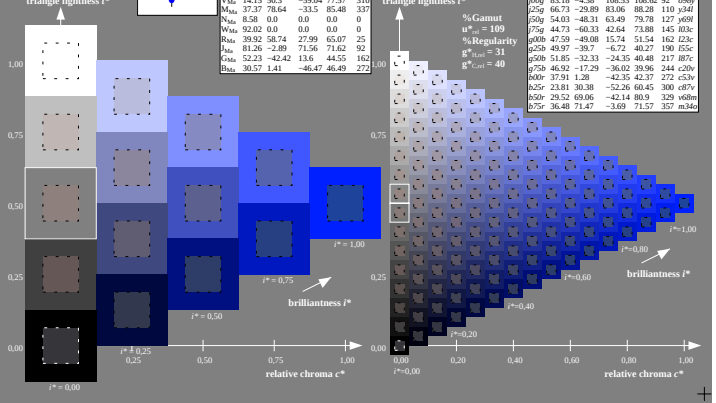
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 24 30 −52
$LAB^*LCH^*_{Ma}$: 24 60 300
$lab^*rgb^*_{Ma}$: 0.5 0.0 1.0
$lab^*olv^*_{Ma}$: 0.0 0.12 1.0
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}
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
R_{Ma}	39.92	58.74	27.99	65.07	25
I_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}	u^*_d
r00j	35.47	63.32	30.17	70.15	25	m81c
r25j	39.12	54.56	49.45	73.64	42	o10y
r50j	50.64	39.15	64.89	75.79	59	o40y
r75j	64.01	21.26	82.83	85.52	76	o69y
y00g	83.18	−4.38	108.53	108.62	92	o98y
y25g	66.73	−29.89	83.06	88.28	110	y34l
y50g	54.03	−48.31	63.49	79.78	127	y69l
y75g	44.73	−60.33	42.64	73.88	145	l03c
g00b	47.59	−49.08	15.74	51.54	162	l23c
g25b	49.97	−39.7	−6.72	40.27	190	l55c
g50b	51.85	−32.33	−24.35	40.48	217	l87c
g75b	46.92	−17.29	−36.02	39.96	244	c20v
b00r	37.91	1.28	−42.35	42.37	272	c53v
b25r	23.81	30.38	−52.26	60.45	300	c87v
b50r	29.52	69.06	−42.14	80.9	329	v68m
b75r	36.48	71.47	−3.69	71.57	357	m34o



Input and output: Colorimetric Printer Reflective System FRS09_92, L*=09_92 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.913$ $u^*_c = b50r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_c = b50r$ $u^*_d = v68m$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

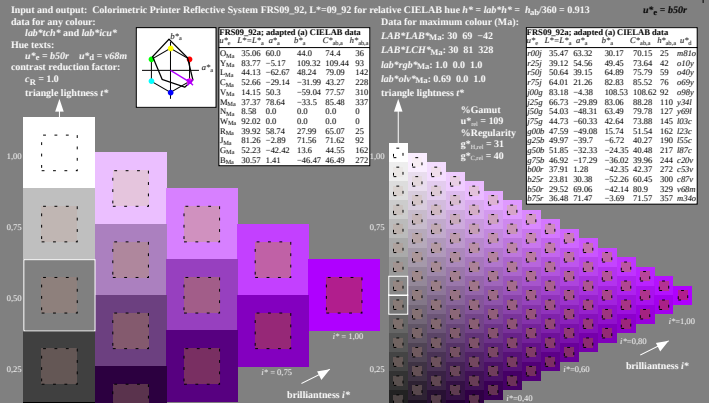
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 30 69 −42
$LAB^*LCH^*_{Ma}$: 30 81 328
$lab^*rgb^*_{Ma}$: 1.0 0.0 1.0
$lab^*olv^*_{Ma}$: 0.69 0.0 1.0
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}
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
R_{Ma}	39.92	58.74	27.99	65.07	25
I_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}	u^*_d
r00j	35.47	63.32	30.17	70.15	25	m81c
r25j	39.12	54.56	49.45	73.64	42	o10y
r50j	50.64	39.15	64.89	75.79	59	o40y
r75j	64.01	21.26	82.83	85.52	76	o69y
y00g	83.18	−4.38	108.53	108.62	92	o98y
y25g	66.73	−29.89	83.06	88.28	110	y34l
y50g	54.03	−48.31	63.49	79.78	127	y69l
y75g	44.73	−60.33	42.64	73.88	145	l03c
g00b	47.59	−49.08	15.74	51.54	162	l23c
g25b	49.97	−39.7	−6.72	40.27	190	l55c
g50b	51.85	−32.33	−24.35	40.48	217	l87c
g75b	46.92	−17.29	−36.02	39.96	244	c20v
b00r	37.91	1.28	−42.35	42.37	272	c53v
b25r	23.81	30.38	−52.26	60.45	300	c87v
b50r	29.52	69.06	−42.14	80.9	329	v68m
b75r	36.48	71.47	−3.69	71.57	357	m34o



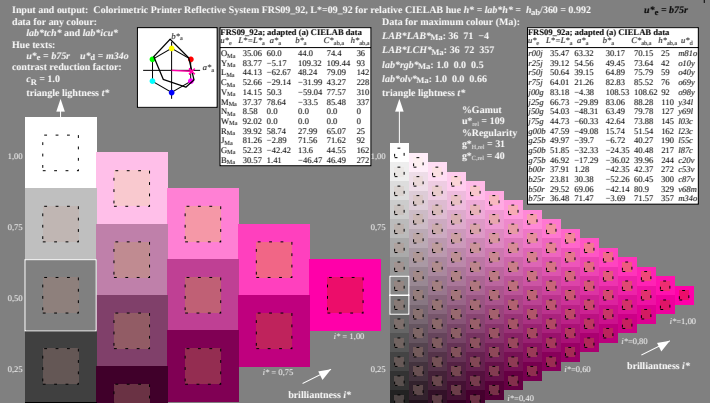
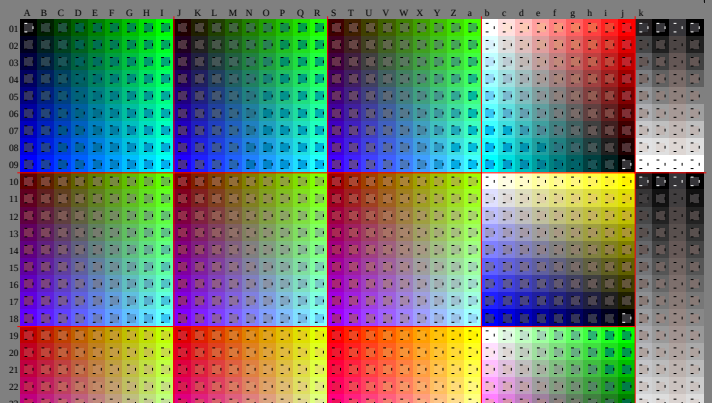
Input and output: Colorimetric Printer Reflective System FRS09_92, L*=09_92 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.992$ $u^*_c = b75r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_c = b75r$ $u^*_d = m34o$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 36 71 −4
$LAB^*LCH^*_{Ma}$: 36 72 357
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.5
$lab^*olv^*_{Ma}$: 1.0 0.0 0.66
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}
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
R_{Ma}	39.92	58.74	27.99	65.07	25
I_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

u^*_c	$L^*=L^*_c$	a^*_c	b^*_c	C^*_{abc}	h^*_{abc}	u^*_d
r00j	35.47	63.32	30.17	70.15	25	m81c
r25j	39.12	54.56	49.45	73.64	42	o10y
r50j	50.64	39.15	64.89	75.79	59	o40y
r75j	64.01	21.26	82.83	85.52	76	o69y
y00g	83.18	−4.38	108.53	108.62	92	o98y
y25g	66.73	−29.89	83.06	88.28	110	y34l
y50g	54.03	−48.31	63.49	79.78	127	y69l
y75g	44.73	−60.33	42.64	73.88	145	l03c
g00b	47.59	−49.08	15.74	51.54	162	l23c
g25b	49.97	−39.7	−6.72	40.27	190	l55c
g50b	51.85	−32.33	−24.35	40.48	217	l87c
g75b	46.92	−17.29	−36.02	39.96	244	c20v
b00r	37.91	1.28	−42.35	42.37	272	c53v
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b50r	29.52	69.06	−42.14	80.9	329	v68m
b75r	36.48	71.47	−3.69	71.57	357	m34o