Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_E and number *no.* = 00 .. 15
elementary hue text:
u^*_E = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 1.0

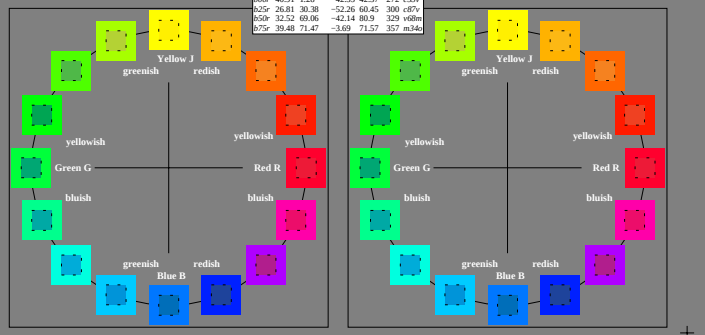
FRS12_95a; adapted (a) CIELAB data

u^*_E	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_E
r00j	38.47	63.32	30.17	70.15	25	*m81o*
r25j	42.12	54.56	49.45	73.64	42	*o10y*
r50j	53.64	39.15	64.89	75.79	59	*o40y*
r75j	67.01	21.26	82.83	85.52	76	*o60y*
j00g	86.18	−4.38	108.53	108.62	92	*o98y*
j25g	69.73	−29.89	83.06	88.28	110	*y34l*
j50g	57.03	−48.31	63.49	79.78	127	*y69l*
j75g	47.73	−60.33	42.64	73.88	145	*l03c*
g00b	50.59	−49.08	15.74	51.54	162	*l23c*
g25b	52.97	−39.7	−6.72	40.27	190	*l55c*
g50b	54.85	−32.33	−24.35	40.48	217	*l87c*
g75b	49.92	−17.29	−36.02	39.96	244	*c20v*
b00r	40.91	1.28	−42.35	42.37	272	*c53v*
b25r	26.81	30.38	−52.26	60.45	300	*c87v*
b50r	32.52	69.06	−42.14	80.9	329	*v68m*
b75r	39.48	71.47	−3.69	71.57	357	*m34c*

%Gamut
$u^*_{E,in}$ = 109
%Regularity
$g^*_{R,rel}$ = 31
$g^*_{R,rel}$ = 40

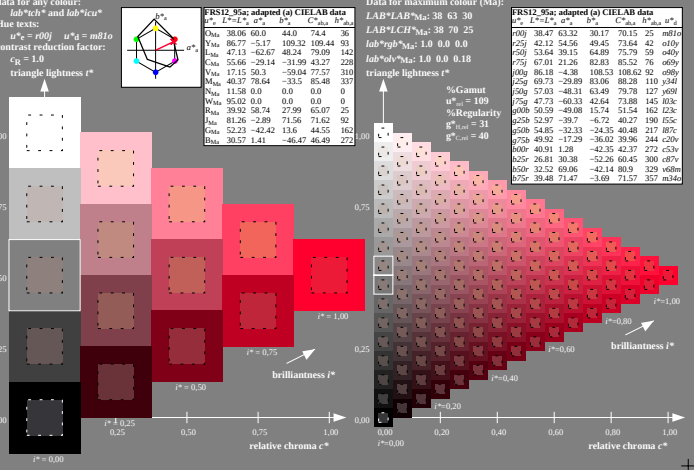
FRS12_95a; adapted (a) CIELAB data

Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	38.06	60.0	44.0	74.4	36
Y_{Ma}	86.77	−5.17	109.32	109.44	93
L_{Ma}	47.13	−62.67	48.24	79.09	142
C_{Ma}	55.66	−29.14	−31.99	43.27	228
V_{Ma}	17.15	50.3	−59.04	77.57	310
M_{Ma}	40.37	78.64	−33.5	85.48	337
W_{Ma}	95.02	0.0	0.0	0.0	0
M_{Na}	11.58	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
I_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272



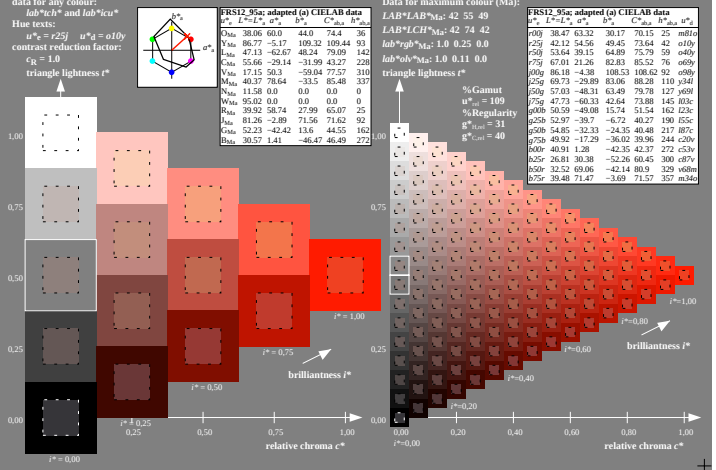
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ u^*_E = *r00j*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_E = *r00j* u^*_d = *m81o*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 38 63 30
*LAB*LCH**$_{Ma}$: 38 70 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.18
%Gamut
$u^*_{E,in}$ = 109
%Regularity
$g^*_{R,rel}$ = 31
$g^*_{R,rel}$ = 40



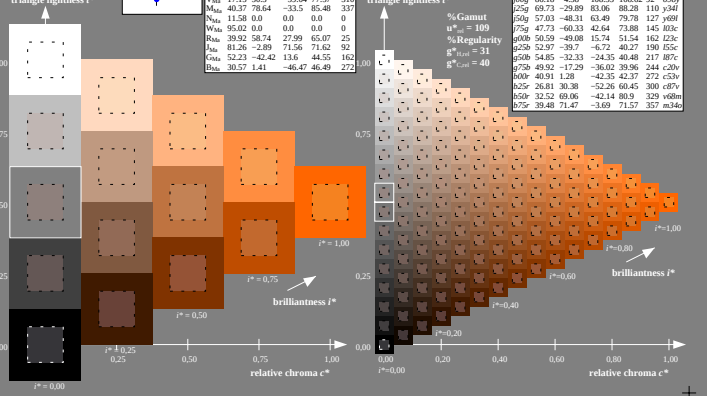
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ u^*_E = *r25j*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_E = *r25j* u^*_d = *o10y*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 42 55 49
*LAB*LCH**$_{Ma}$: 42 74 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.11 0.0
%Gamut
$u^*_{E,in}$ = 109
%Regularity
$g^*_{R,rel}$ = 31
$g^*_{R,rel}$ = 40



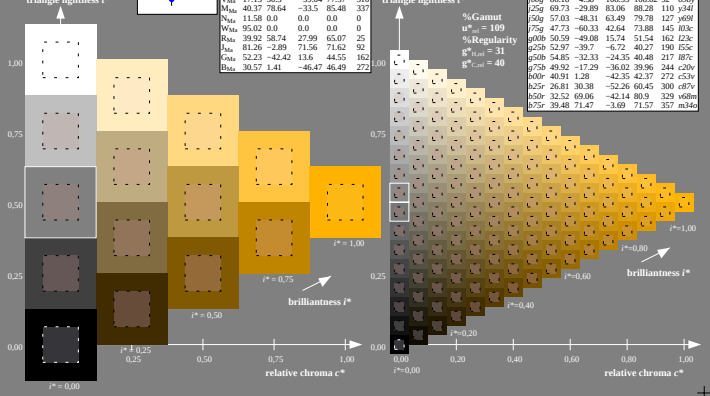
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ u^*_E = *r50j*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_E = *r50j* u^*_d = *o40y*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 54 39 65
*LAB*LCH**$_{Ma}$: 54 76 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.4 0.0
%Gamut
$u^*_{E,in}$ = 109
%Regularity
$g^*_{R,rel}$ = 31
$g^*_{R,rel}$ = 40



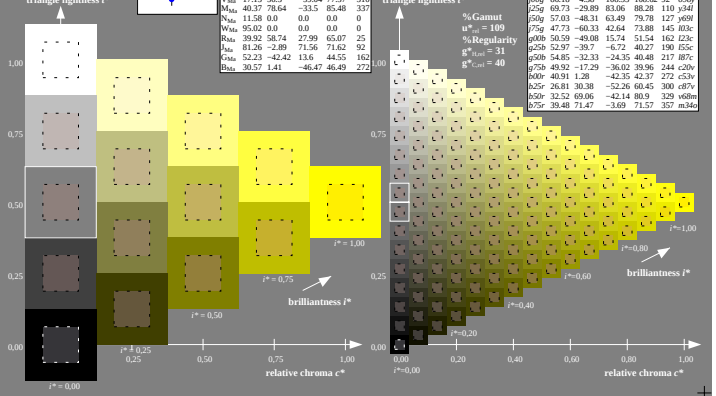
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ u^*_E = *r75j*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_E = *r75j* u^*_d = *o69y*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 67 21 83
*LAB*LCH**$_{Ma}$: 67 86 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.7 0.0
%Gamut
$u^*_{E,in}$ = 109
%Regularity
$g^*_{R,rel}$ = 31
$g^*_{R,rel}$ = 40



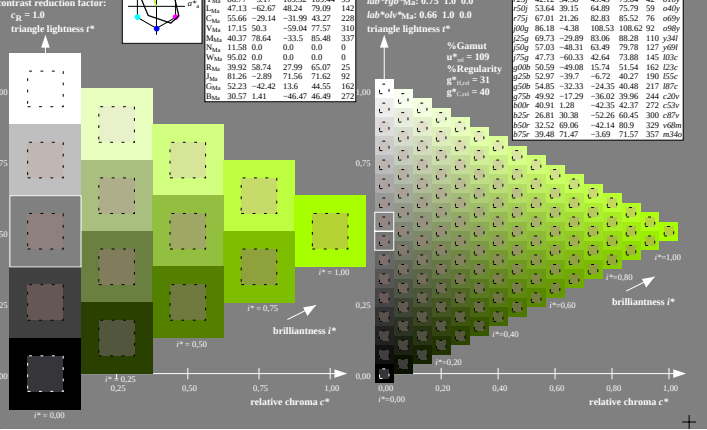
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ u^*_E = *j00g*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_E = *j00g* u^*_d = *o98y*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 86 −4 109
*LAB*LCH**$_{Ma}$: 86 109 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.99 0.0
%Gamut
$u^*_{E,in}$ = 109
%Regularity
$g^*_{R,rel}$ = 31
$g^*_{R,rel}$ = 40



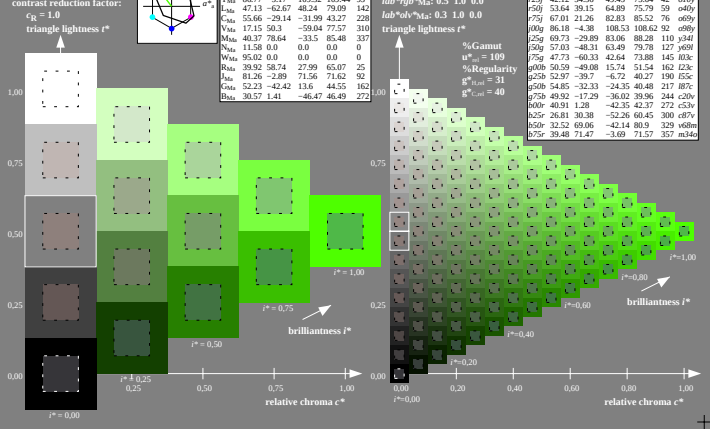
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ u^*_E = *j25g*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_E = *j25g* u^*_d = *y34l*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 70 −30 83
*LAB*LCH**$_{Ma}$: 70 88 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.66 1.0 0.0
%Gamut
$u^*_{E,in}$ = 109
%Regularity
$g^*_{R,rel}$ = 31
$g^*_{R,rel}$ = 40



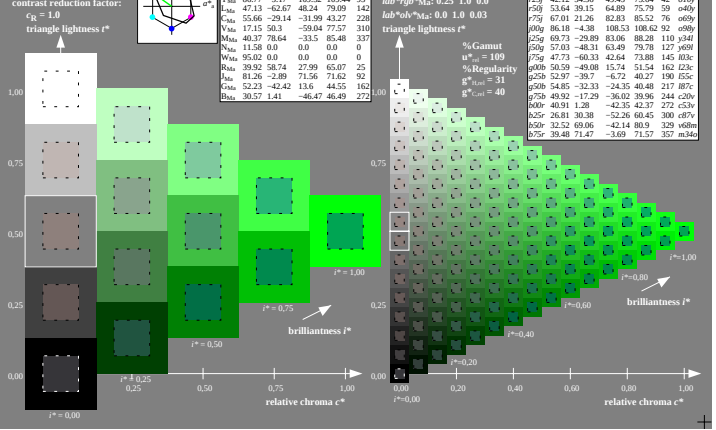
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ u^*_E = *j50g*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_E = *j50g* u^*_d = *y69l*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 57 −48 63
*LAB*LCH**$_{Ma}$: 57 80 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.3 1.0 0.0
%Gamut
$u^*_{E,in}$ = 109
%Regularity
$g^*_{R,rel}$ = 31
$g^*_{R,rel}$ = 40



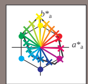
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ u^*_E = *j75g*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_E = *j75g* u^*_d = *l03c*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 48 −60 43
*LAB*LCH**$_{Ma}$: 48 74 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.03
%Gamut
$u^*_{E,in}$ = 109
%Regularity
$g^*_{R,rel}$ = 31
$g^*_{R,rel}$ = 40



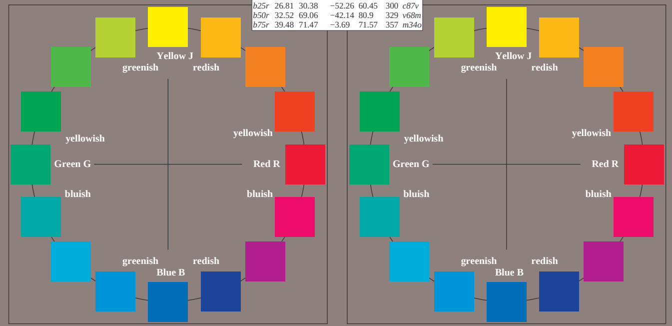
Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
*u*ₑ and number *no.* = 00 .. 15
elementary hue text:
u^*_e = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
$c_R = 1.0$

FRS12_95a; adapted (a) CIELAB data						
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o



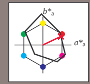
%Gamut
$u^*_{rel} = 109$
%Regularity
$g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS12_95a; adapted (a) CIELAB data					
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	38.06	60.0	44.0	74.4	36
Y_{Ma}	86.77	−5.17	109.32	109.44	93
L_{Ma}	47.13	−62.67	48.24	79.09	142
C_{Ma}	55.66	−29.14	−31.99	43.27	228
V_{Ma}	17.15	50.3	−59.04	77.57	310
M_{Ma}	40.37	78.64	−33.5	85.48	337
N_{Ma}	11.58	0.0	0.0	0.0	0
W_{Ma}	95.02	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ $u^*_e = r00j$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_e = r00j$ $u^*_d = m81o$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

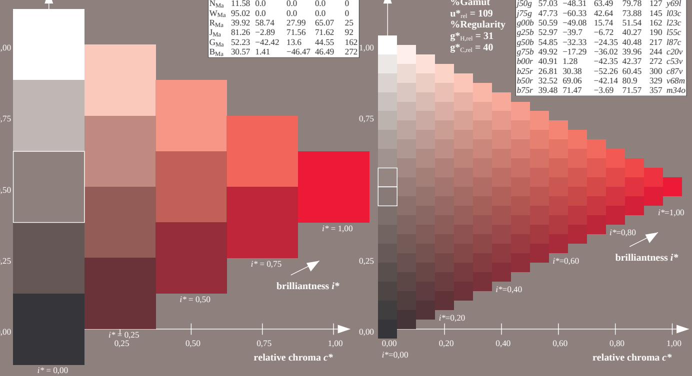


FRS12_95a; adapted (a) CIELAB data					
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	38.06	60.0	44.0	74.4	36
Y_{Ma}	86.77	−5.17	109.32	109.44	93
L_{Ma}	47.13	−62.67	48.24	79.09	142
C_{Ma}	55.66	−29.14	−31.99	43.27	228
V_{Ma}	17.15	50.3	−59.04	77.57	310
M_{Ma}	40.37	78.64	−33.5	85.48	337
N_{Ma}	11.58	0.0	0.0	0.0	0
W_{Ma}	95.02	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{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

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 38 63 30
$LAB^*LCH^*_{Ma}$: 38 70 25
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.0
$lab^*olv^*_{Ma}$: 1.0 0.0 0.18
triangle lightness t^*

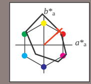
%Gamut
$u^*_{rel} = 109$
%Regularity
$g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS12_95a; adapted (a) CIELAB data						
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o



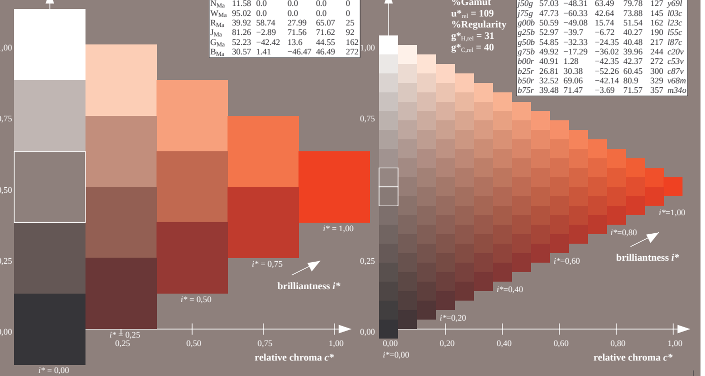
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ $u^*_e = r25j$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_e = r25j$ $u^*_d = o10y$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



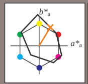
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 42 55 49
$LAB^*LCH^*_{Ma}$: 42 74 42
$lab^*rgb^*_{Ma}$: 1.0 0.25 0.0
$lab^*olv^*_{Ma}$: 1.0 0.11 0.0
triangle lightness t^*

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



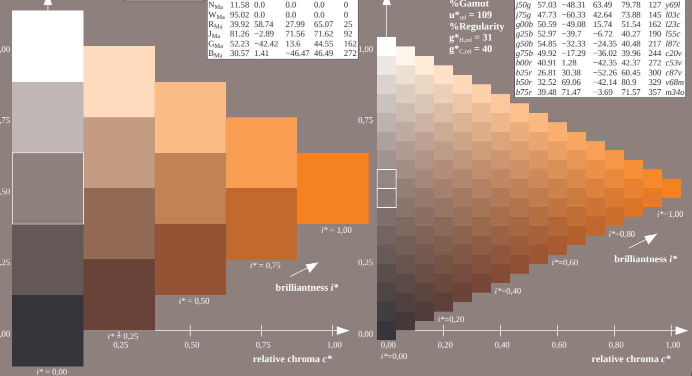
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ $u^*_e = r50j$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_e = r50j$ $u^*_d = o40y$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



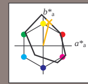
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 54 39 65
$LAB^*LCH^*_{Ma}$: 54 76 58
$lab^*rgb^*_{Ma}$: 1.0 0.5 0.0
$lab^*olv^*_{Ma}$: 1.0 0.4 0.0
triangle lightness t^*

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



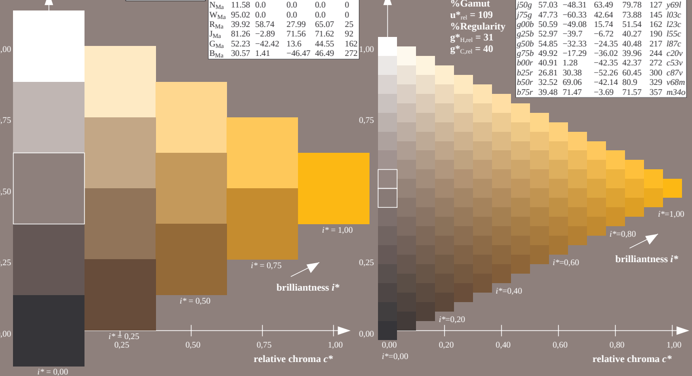
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ $u^*_e = r75j$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_e = r75j$ $u^*_d = o69y$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



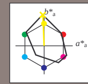
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 67 21 83
$LAB^*LCH^*_{Ma}$: 67 86 75
$lab^*rgb^*_{Ma}$: 1.0 0.75 0.0
$lab^*olv^*_{Ma}$: 1.0 0.7 0.0
triangle lightness t^*

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



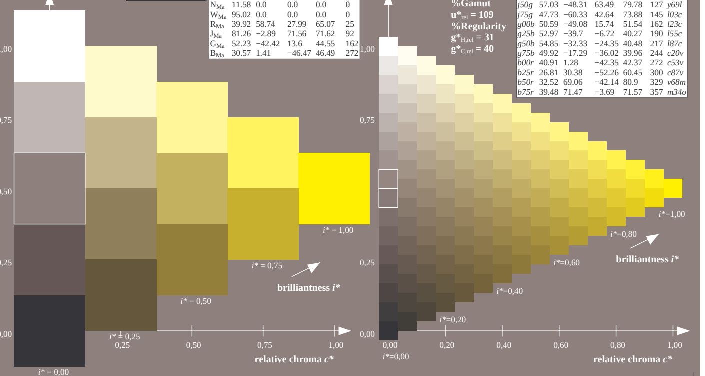
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ $u^*_e = j00g$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_e = j00g$ $u^*_d = o98y$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



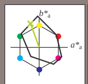
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 86 −4 109
$LAB^*LCH^*_{Ma}$: 86 109 92
$lab^*rgb^*_{Ma}$: 1.0 1.0 0.0
$lab^*olv^*_{Ma}$: 1.0 0.99 0.0
triangle lightness t^*

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



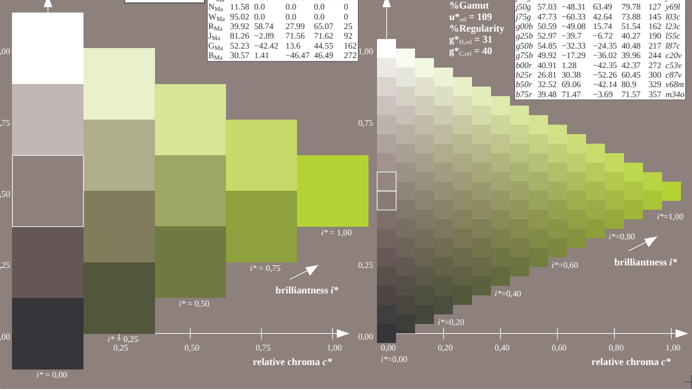
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ $u^*_e = j25g$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_e = j25g$ $u^*_d = y34l$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



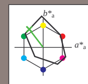
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 70 −30 83
$LAB^*LCH^*_{Ma}$: 70 88 109
$lab^*rgb^*_{Ma}$: 0.75 1.0 0.0
$lab^*olv^*_{Ma}$: 0.66 1.0 0.0
triangle lightness t^*

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



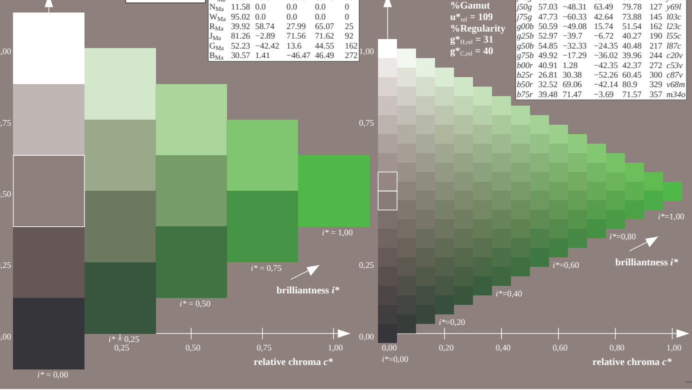
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ $u^*_e = j50g$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_e = j50g$ $u^*_d = y69l$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



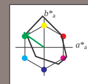
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 57 −48 63
$LAB^*LCH^*_{Ma}$: 57 80 127
$lab^*rgb^*_{Ma}$: 0.5 1.0 0.0
$lab^*olv^*_{Ma}$: 0.3 1.0 0.0
triangle lightness t^*

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



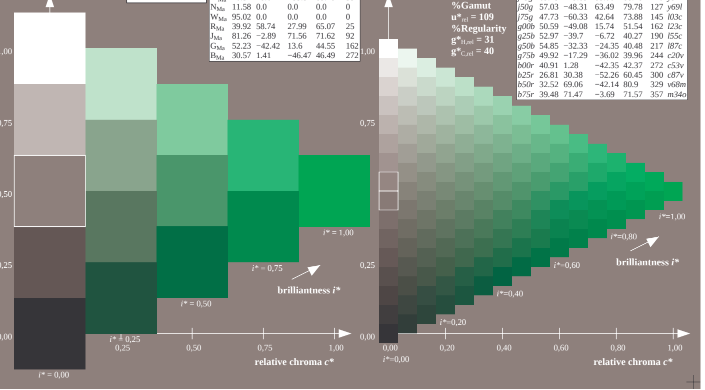
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ $u^*_e = j75g$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_e = j75g$ $u^*_d = l03c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*



Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 48 −60 43
$LAB^*LCH^*_{Ma}$: 48 74 144
$lab^*rgb^*_{Ma}$: 0.25 1.0 0.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.03
triangle lightness t^*

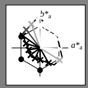
%Gamut
$u^*_{rel} = 109$
%Regularity
$g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_e and number *no.* = 00 .. 15
elementary hue text:
u^*_e = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 1.0

FRS12_95a; adapted (a) CIELAB data

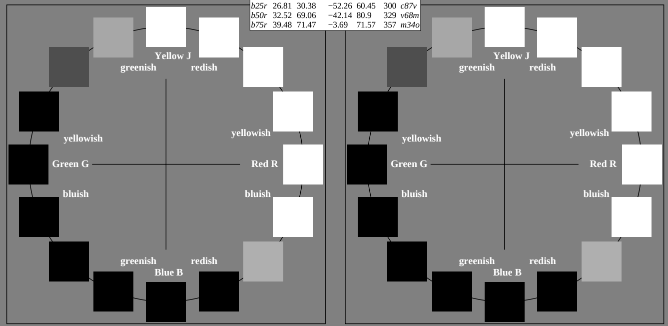
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o



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

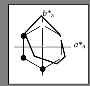
FRS12_95a; adapted (a) CIELAB data

Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	38.06	60.0	44.0	74.4	36
Y_{Ma}	86.77	−5.17	109.32	109.44	93
L_{Ma}	47.13	−62.67	48.24	79.09	142
C_{Ma}	55.66	−29.14	−31.99	43.27	228
V_{Ma}	17.15	50.3	−59.04	77.57	310
M_{Ma}	40.37	78.64	−33.5	85.48	337
N_{Ma}	11.58	0.0	0.0	0.0	0
W_{Ma}	95.02	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360$ = 0.071 u^*_e = *r00j*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r00j* u^*_d = *m81o*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*



FRS12_95a; adapted (a) CIELAB data

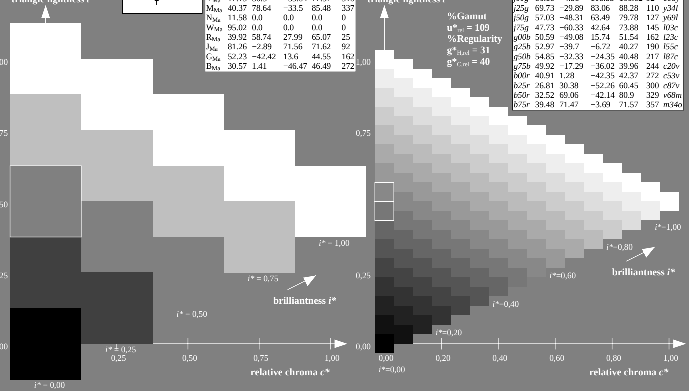
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	38.06	60.0	44.0	74.4	36
Y_{Ma}	86.77	−5.17	109.32	109.44	93
L_{Ma}	47.13	−62.67	48.24	79.09	142
C_{Ma}	55.66	−29.14	−31.99	43.27	228
V_{Ma}	17.15	50.3	−59.04	77.57	310
M_{Ma}	40.37	78.64	−33.5	85.48	337
N_{Ma}	11.58	0.0	0.0	0.0	0
W_{Ma}	95.02	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{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

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 38 63 30
*LAB*LCH**$_{Ma}$: 38 70 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.18
triangle lightness t^*

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

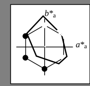
FRS12_95a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o



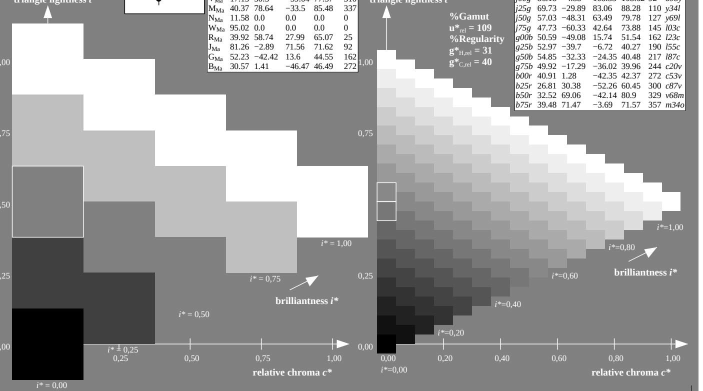
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360$ = 0.117 u^*_e = *r25j*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r25j* u^*_d = *o10y*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*



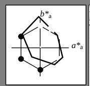
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 42 55 49
*LAB*LCH**$_{Ma}$: 42 74 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.11 0.0
triangle lightness t^*

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



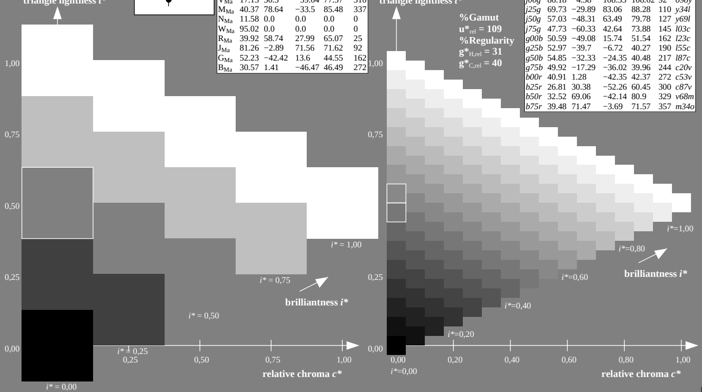
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360$ = 0.164 u^*_e = *r50j*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r50j* u^*_d = *o40y*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*



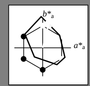
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 54 39 65
*LAB*LCH**$_{Ma}$: 54 76 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.4 0.0
triangle lightness t^*

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



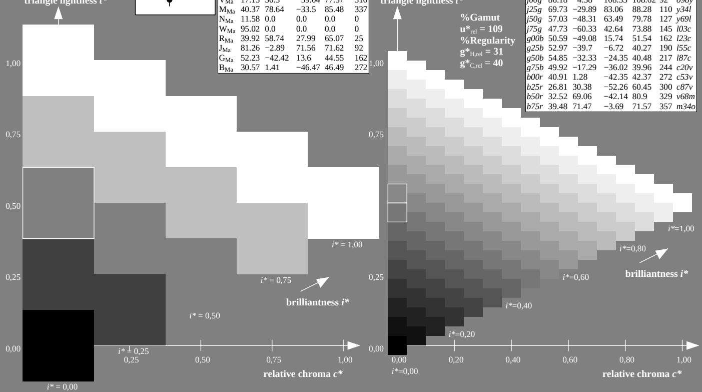
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360$ = 0.21 u^*_e = *r75j*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r75j* u^*_d = *o69y*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*



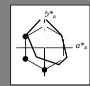
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 67 21 83
*LAB*LCH**$_{Ma}$: 67 86 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.7 0.0
triangle lightness t^*

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



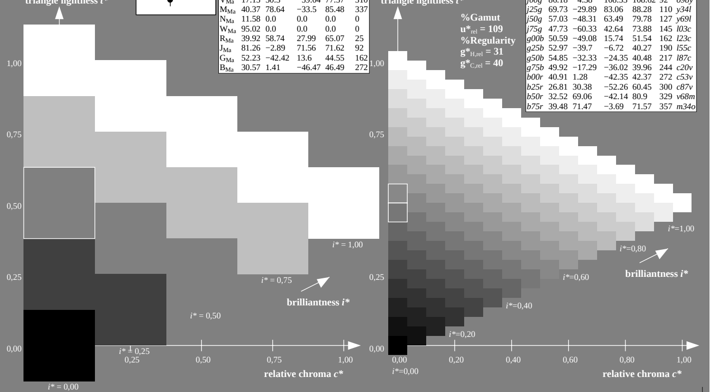
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360$ = 0.256 u^*_e = *j00g*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j00g* u^*_d = *o98y*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*



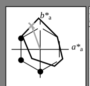
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 86 −4 109
*LAB*LCH**$_{Ma}$: 86 109 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.99 0.0
triangle lightness t^*

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



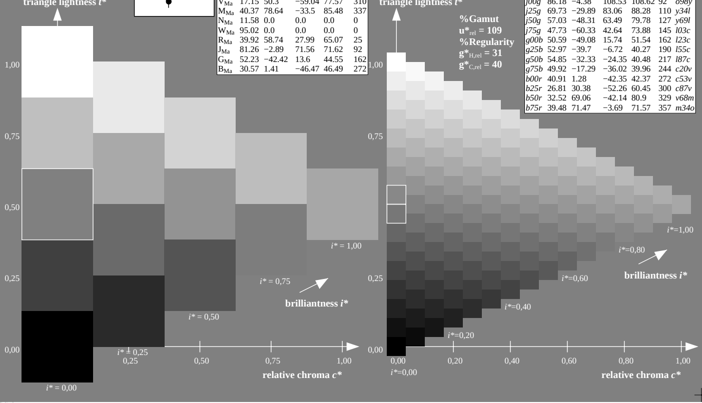
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360$ = 0.305 u^*_e = *j25g*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j25g* u^*_d = *y34l*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*



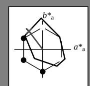
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 70 −30 83
*LAB*LCH**$_{Ma}$: 70 88 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.66 1.0 0.0
triangle lightness t^*

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



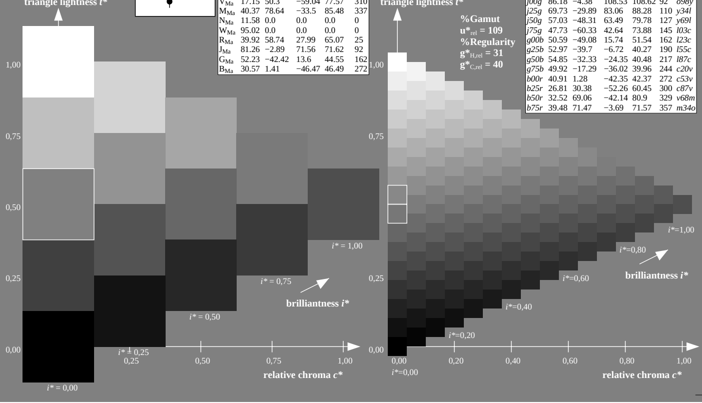
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360$ = 0.354 u^*_e = *j50g*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j50g* u^*_d = *y69l*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*



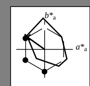
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 57 −48 63
*LAB*LCH**$_{Ma}$: 57 80 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.3 1.0 0.0
triangle lightness t^*

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



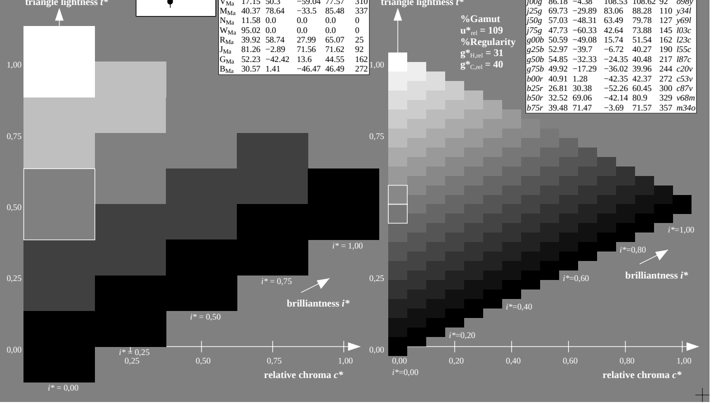
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360$ = 0.402 u^*_e = *j75g*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j75g* u^*_d = *l03c*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*



Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 48 −60 43
*LAB*LCH**$_{Ma}$: 48 74 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.03
triangle lightness t^*

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

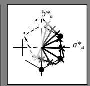


The two tables "FRS12_95a; adapted (a) CIELAB data" (O_{Ma} … B_{Ma} and r00j … b75r) are repeated unchanged in each of the panels for r25j, r50j, r75j, j00g, j25g, j50g and j75g.

Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
$u^*_{\rm e}$ and number *no.* = 00 .. 15
elementary hue text:
$u^*_{\rm e}$ = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
$c_{\rm R}$ = 1.0

FRS12_95a; adapted (a) CIELAB data

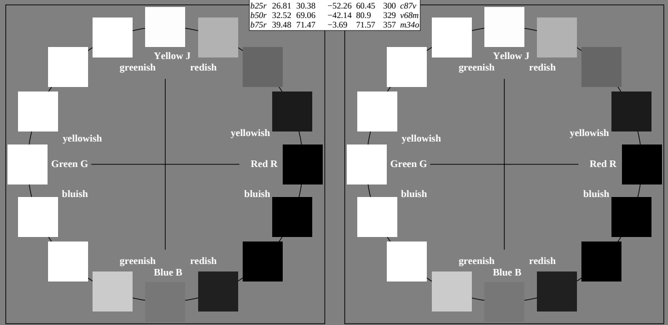
$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$	$u^*_{\rm d}$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o



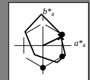
%Gamut
$u^*_{\rm rel}$ = 109
%Regularity
$g^*_{\rm H,rel}$ = 31
$g^*_{\rm C,rel}$ = 40

FRS12_95a; adapted (a) CIELAB data

Name	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$
$O_{\rm Ma}$	38.06	60.0	44.0	74.4	36
$Y_{\rm Ma}$	86.77	−5.17	109.32	109.44	93
$L_{\rm Ma}$	47.13	−62.67	48.24	79.09	142
$C_{\rm Ma}$	55.66	−29.14	−31.99	43.27	228
$V_{\rm Ma}$	17.15	50.3	−59.04	77.57	310
$M_{\rm Ma}$	40.37	78.64	−33.5	85.48	337
$N_{\rm Ma}$	11.58	0.0	0.0	0.0	0
$W_{\rm Ma}$	95.02	0.0	0.0	0.0	0
$R_{\rm CIE}$	39.92	58.74	27.99	65.07	25
$J_{\rm CIE}$	81.26	−2.89	71.56	71.62	92
$G_{\rm CIE}$	52.23	−42.42	13.6	44.55	162
$B_{\rm CIE}$	30.57	1.41	−46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = $h_{\rm ab}$/360 = 0.071 — $u^*_{\rm e}$ = *r00j*
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_{\rm e}$ = *r00j* $u^*_{\rm d}$ = *m81o*
contrast reduction factor:
$c_{\rm R}$ = 1.0
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

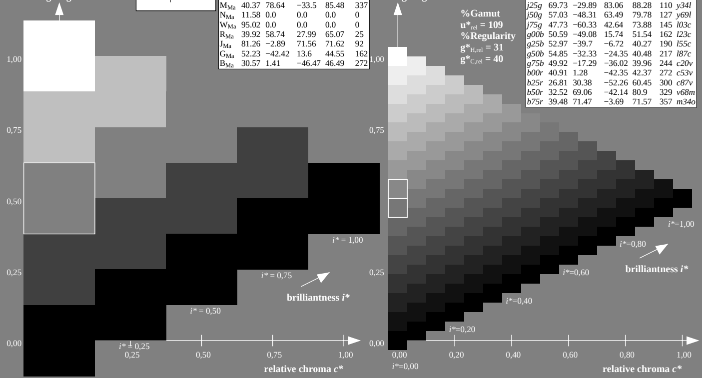
$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$
$O_{\rm Ma}$	38.06	60.0	44.0	74.4	36
$Y_{\rm Ma}$	86.77	−5.17	109.32	109.44	93
$L_{\rm Ma}$	47.13	−62.67	48.24	79.09	142
$C_{\rm Ma}$	55.66	−29.14	−31.99	43.27	228
$V_{\rm Ma}$	17.15	50.3	−59.04	77.57	310
$M_{\rm Ma}$	40.37	78.64	−33.5	85.48	337
$N_{\rm Ma}$	11.58	0.0	0.0	0.0	0
$W_{\rm Ma}$	95.02	0.0	0.0	0.0	0
$R_{\rm Ma}$	39.92	58.74	27.99	65.07	25
$J_{\rm Ma}$	81.26	−2.89	71.56	71.62	92
$G_{\rm Ma}$	52.23	−42.42	13.6	44.55	162
$B_{\rm Ma}$	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{\rm Ma}$: 38 63 30
*LAB*LCH**$_{\rm Ma}$: 38 70 25
*lab*rgb**$_{\rm Ma}$: 1.0 0.0 0.0
*lab*olv**$_{\rm Ma}$: 1.0 0.0 0.18
triangle lightness *t**

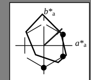
FRS12_95a; adapted (a) CIELAB data

$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$	$u^*_{\rm d}$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o

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



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = $h_{\rm ab}$/360 = 0.117 — $u^*_{\rm e}$ = *r25j*
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_{\rm e}$ = *r25j* $u^*_{\rm d}$ = *o10y*
contrast reduction factor:
$c_{\rm R}$ = 1.0
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

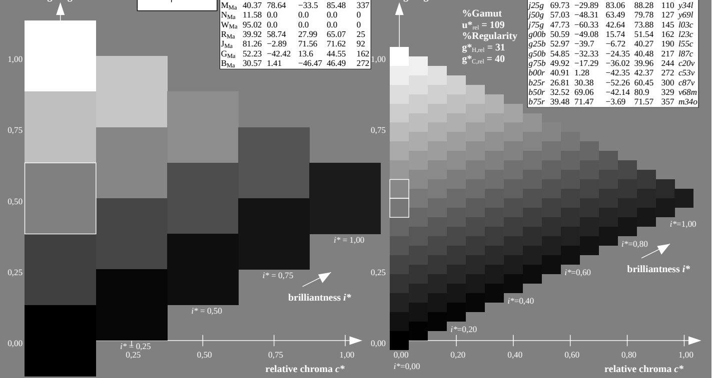
$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$
$O_{\rm Ma}$	38.06	60.0	44.0	74.4	36
$Y_{\rm Ma}$	86.77	−5.17	109.32	109.44	93
$L_{\rm Ma}$	47.13	−62.67	48.24	79.09	142
$C_{\rm Ma}$	55.66	−29.14	−31.99	43.27	228
$V_{\rm Ma}$	17.15	50.3	−59.04	77.57	310
$M_{\rm Ma}$	40.37	78.64	−33.5	85.48	337
$N_{\rm Ma}$	11.58	0.0	0.0	0.0	0
$W_{\rm Ma}$	95.02	0.0	0.0	0.0	0
$R_{\rm Ma}$	39.92	58.74	27.99	65.07	25
$J_{\rm Ma}$	81.26	−2.89	71.56	71.62	92
$G_{\rm Ma}$	52.23	−42.42	13.6	44.55	162
$B_{\rm Ma}$	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{\rm Ma}$: 42 55 49
*LAB*LCH**$_{\rm Ma}$: 42 74 42
*lab*rgb**$_{\rm Ma}$: 1.0 0.25 0.0
*lab*olv**$_{\rm Ma}$: 1.0 0.11 0.0
triangle lightness *t**

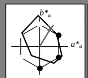
FRS12_95a; adapted (a) CIELAB data

$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$	$u^*_{\rm d}$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o

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



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = $h_{\rm ab}$/360 = 0.164 — $u^*_{\rm e}$ = *r50j*
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_{\rm e}$ = *r50j* $u^*_{\rm d}$ = *o40y*
contrast reduction factor:
$c_{\rm R}$ = 1.0
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

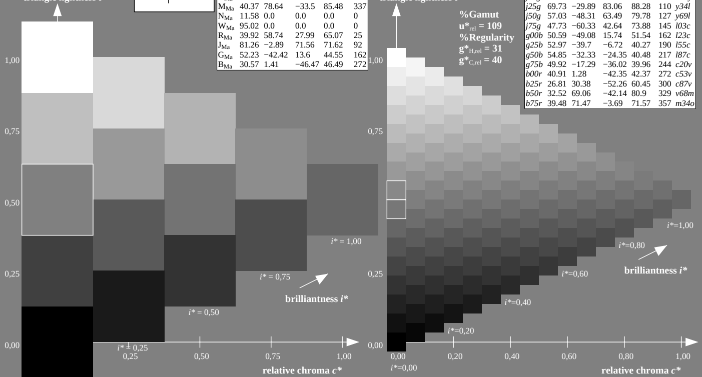
$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$
$O_{\rm Ma}$	38.06	60.0	44.0	74.4	36
$Y_{\rm Ma}$	86.77	−5.17	109.32	109.44	93
$L_{\rm Ma}$	47.13	−62.67	48.24	79.09	142
$C_{\rm Ma}$	55.66	−29.14	−31.99	43.27	228
$V_{\rm Ma}$	17.15	50.3	−59.04	77.57	310
$M_{\rm Ma}$	40.37	78.64	−33.5	85.48	337
$N_{\rm Ma}$	11.58	0.0	0.0	0.0	0
$W_{\rm Ma}$	95.02	0.0	0.0	0.0	0
$R_{\rm Ma}$	39.92	58.74	27.99	65.07	25
$J_{\rm Ma}$	81.26	−2.89	71.56	71.62	92
$G_{\rm Ma}$	52.23	−42.42	13.6	44.55	162
$B_{\rm Ma}$	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{\rm Ma}$: 54 39 65
*LAB*LCH**$_{\rm Ma}$: 54 76 58
*lab*rgb**$_{\rm Ma}$: 1.0 0.5 0.0
*lab*olv**$_{\rm Ma}$: 1.0 0.4 0.0
triangle lightness *t**

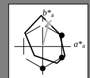
FRS12_95a; adapted (a) CIELAB data

$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$	$u^*_{\rm d}$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o

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



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = $h_{\rm ab}$/360 = 0.21 — $u^*_{\rm e}$ = *r75j*
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_{\rm e}$ = *r75j* $u^*_{\rm d}$ = *o69y*
contrast reduction factor:
$c_{\rm R}$ = 1.0
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

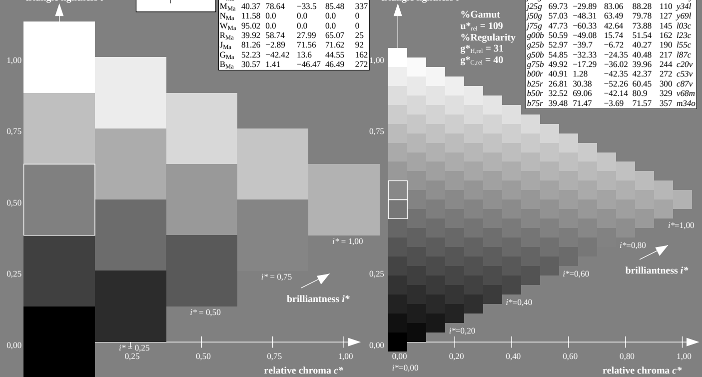
$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$
$O_{\rm Ma}$	38.06	60.0	44.0	74.4	36
$Y_{\rm Ma}$	86.77	−5.17	109.32	109.44	93
$L_{\rm Ma}$	47.13	−62.67	48.24	79.09	142
$C_{\rm Ma}$	55.66	−29.14	−31.99	43.27	228
$V_{\rm Ma}$	17.15	50.3	−59.04	77.57	310
$M_{\rm Ma}$	40.37	78.64	−33.5	85.48	337
$N_{\rm Ma}$	11.58	0.0	0.0	0.0	0
$W_{\rm Ma}$	95.02	0.0	0.0	0.0	0
$R_{\rm Ma}$	39.92	58.74	27.99	65.07	25
$J_{\rm Ma}$	81.26	−2.89	71.56	71.62	92
$G_{\rm Ma}$	52.23	−42.42	13.6	44.55	162
$B_{\rm Ma}$	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{\rm Ma}$: 67 21 83
*LAB*LCH**$_{\rm Ma}$: 67 86 75
*lab*rgb**$_{\rm Ma}$: 1.0 0.75 0.0
*lab*olv**$_{\rm Ma}$: 1.0 0.7 0.0
triangle lightness *t**

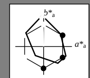
FRS12_95a; adapted (a) CIELAB data

$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$	$u^*_{\rm d}$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o

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



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = $h_{\rm ab}$/360 = 0.256 — $u^*_{\rm e}$ = *j00g*
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_{\rm e}$ = *j00g* $u^*_{\rm d}$ = *o98y*
contrast reduction factor:
$c_{\rm R}$ = 1.0
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

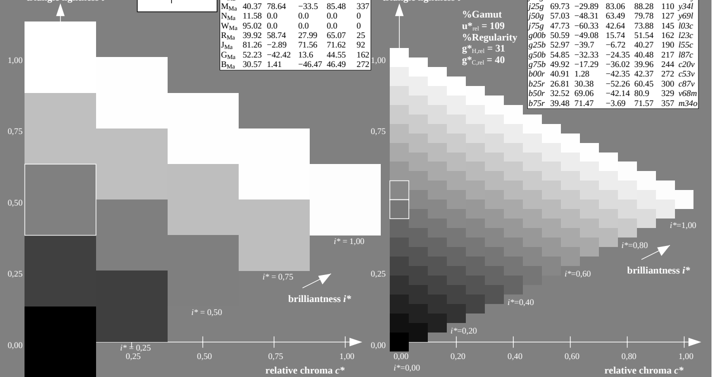
$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$
$O_{\rm Ma}$	38.06	60.0	44.0	74.4	36
$Y_{\rm Ma}$	86.77	−5.17	109.32	109.44	93
$L_{\rm Ma}$	47.13	−62.67	48.24	79.09	142
$C_{\rm Ma}$	55.66	−29.14	−31.99	43.27	228
$V_{\rm Ma}$	17.15	50.3	−59.04	77.57	310
$M_{\rm Ma}$	40.37	78.64	−33.5	85.48	337
$N_{\rm Ma}$	11.58	0.0	0.0	0.0	0
$W_{\rm Ma}$	95.02	0.0	0.0	0.0	0
$R_{\rm Ma}$	39.92	58.74	27.99	65.07	25
$J_{\rm Ma}$	81.26	−2.89	71.56	71.62	92
$G_{\rm Ma}$	52.23	−42.42	13.6	44.55	162
$B_{\rm Ma}$	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{\rm Ma}$: 86 −4 109
*LAB*LCH**$_{\rm Ma}$: 86 109 92
*lab*rgb**$_{\rm Ma}$: 1.0 1.0 0.0
*lab*olv**$_{\rm Ma}$: 1.0 0.99 0.0
triangle lightness *t**

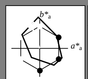
FRS12_95a; adapted (a) CIELAB data

$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$	$u^*_{\rm d}$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o

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



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = $h_{\rm ab}$/360 = 0.305 — $u^*_{\rm e}$ = *j25g*
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_{\rm e}$ = *j25g* $u^*_{\rm d}$ = *y34l*
contrast reduction factor:
$c_{\rm R}$ = 1.0
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

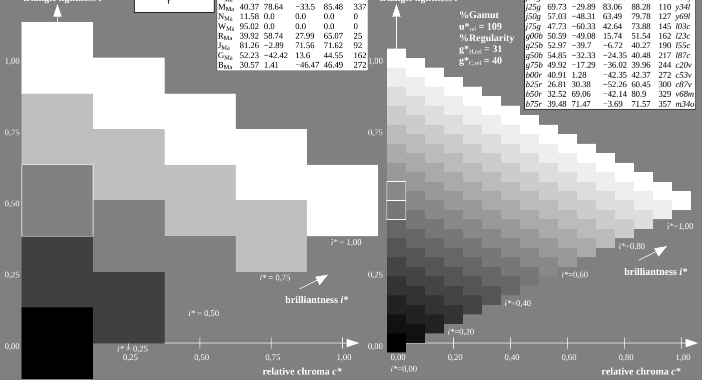
$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$
$O_{\rm Ma}$	38.06	60.0	44.0	74.4	36
$Y_{\rm Ma}$	86.77	−5.17	109.32	109.44	93
$L_{\rm Ma}$	47.13	−62.67	48.24	79.09	142
$C_{\rm Ma}$	55.66	−29.14	−31.99	43.27	228
$V_{\rm Ma}$	17.15	50.3	−59.04	77.57	310
$M_{\rm Ma}$	40.37	78.64	−33.5	85.48	337
$N_{\rm Ma}$	11.58	0.0	0.0	0.0	0
$W_{\rm Ma}$	95.02	0.0	0.0	0.0	0
$R_{\rm Ma}$	39.92	58.74	27.99	65.07	25
$J_{\rm Ma}$	81.26	−2.89	71.56	71.62	92
$G_{\rm Ma}$	52.23	−42.42	13.6	44.55	162
$B_{\rm Ma}$	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{\rm Ma}$: 70 −30 83
*LAB*LCH**$_{\rm Ma}$: 70 88 109
*lab*rgb**$_{\rm Ma}$: 0.75 1.0 0.0
*lab*olv**$_{\rm Ma}$: 0.66 1.0 0.0
triangle lightness *t**

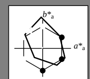
FRS12_95a; adapted (a) CIELAB data

$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$	$u^*_{\rm d}$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o

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



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = $h_{\rm ab}$/360 = 0.354 — $u^*_{\rm e}$ = *j50g*
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_{\rm e}$ = *j50g* $u^*_{\rm d}$ = *y69l*
contrast reduction factor:
$c_{\rm R}$ = 1.0
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

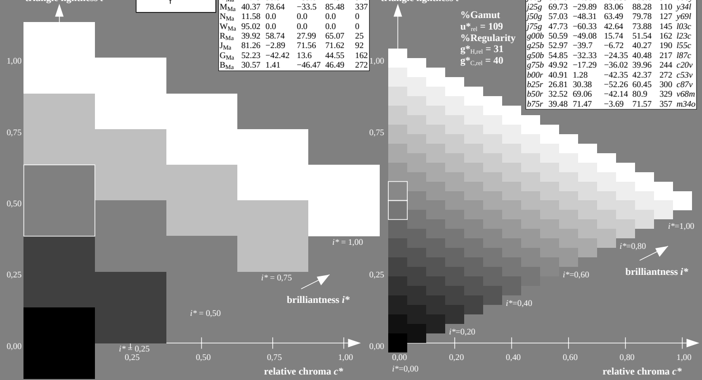
$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$
$O_{\rm Ma}$	38.06	60.0	44.0	74.4	36
$Y_{\rm Ma}$	86.77	−5.17	109.32	109.44	93
$L_{\rm Ma}$	47.13	−62.67	48.24	79.09	142
$C_{\rm Ma}$	55.66	−29.14	−31.99	43.27	228
$V_{\rm Ma}$	17.15	50.3	−59.04	77.57	310
$M_{\rm Ma}$	40.37	78.64	−33.5	85.48	337
$N_{\rm Ma}$	11.58	0.0	0.0	0.0	0
$W_{\rm Ma}$	95.02	0.0	0.0	0.0	0
$R_{\rm Ma}$	39.92	58.74	27.99	65.07	25
$J_{\rm Ma}$	81.26	−2.89	71.56	71.62	92
$G_{\rm Ma}$	52.23	−42.42	13.6	44.55	162
$B_{\rm Ma}$	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{\rm Ma}$: 57 −48 63
*LAB*LCH**$_{\rm Ma}$: 57 80 127
*lab*rgb**$_{\rm Ma}$: 0.5 1.0 0.0
*lab*olv**$_{\rm Ma}$: 0.3 1.0 0.0
triangle lightness *t**

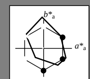
FRS12_95a; adapted (a) CIELAB data

$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$	$u^*_{\rm d}$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o

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



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = $h_{\rm ab}$/360 = 0.402 — $u^*_{\rm e}$ = *j75g*
data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_{\rm e}$ = *j75g* $u^*_{\rm d}$ = *l03c*
contrast reduction factor:
$c_{\rm R}$ = 1.0
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

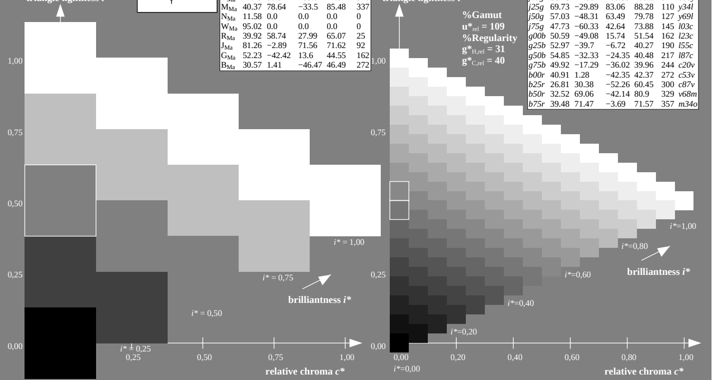
$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$
$O_{\rm Ma}$	38.06	60.0	44.0	74.4	36
$Y_{\rm Ma}$	86.77	−5.17	109.32	109.44	93
$L_{\rm Ma}$	47.13	−62.67	48.24	79.09	142
$C_{\rm Ma}$	55.66	−29.14	−31.99	43.27	228
$V_{\rm Ma}$	17.15	50.3	−59.04	77.57	310
$M_{\rm Ma}$	40.37	78.64	−33.5	85.48	337
$N_{\rm Ma}$	11.58	0.0	0.0	0.0	0
$W_{\rm Ma}$	95.02	0.0	0.0	0.0	0
$R_{\rm Ma}$	39.92	58.74	27.99	65.07	25
$J_{\rm Ma}$	81.26	−2.89	71.56	71.62	92
$G_{\rm Ma}$	52.23	−42.42	13.6	44.55	162
$B_{\rm Ma}$	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{\rm Ma}$: 48 −60 43
*LAB*LCH**$_{\rm Ma}$: 48 74 144
*lab*rgb**$_{\rm Ma}$: 0.25 1.0 0.0
*lab*olv**$_{\rm Ma}$: 0.0 1.0 0.03
triangle lightness *t**

FRS12_95a; adapted (a) CIELAB data

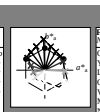
$u^*_{\rm e}$	$L^*=L^*_{\rm a}$	$a^*_{\rm a}$	$b^*_{\rm a}$	$C^*_{\rm ab,a}$	$h^*_{\rm ab,a}$	$u^*_{\rm d}$
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o

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

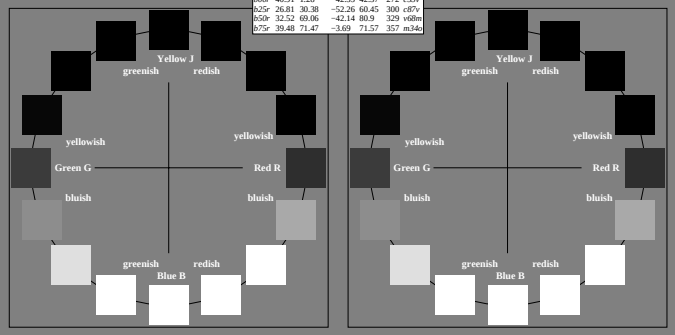


Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_ϵ **and number** *no.* **= 00 .. 15**
elementary hue text:
u^*_ϵ **= 16 hues** *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R **= 1.0**

FRS12_95a; adapted (a) CIELAB data							
u^*_ϵ	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_ϵ	
r00j	38.47	63.32	30.17	70.15	25	*m81o*	
r25j	42.12	54.56	49.45	73.64	42	*o10y*	
r50j	53.64	39.15	64.89	75.79	59	*o40y*	
r75j	67.01	21.26	82.83	85.52	76	*o60y*	
j00g	86.18	−4.38	108.53	108.62	92	*o98y*	
j25g	69.73	−29.89	83.06	88.28	110	*y34l*	
j50g	57.03	−48.31	63.49	79.78	127	*y69l*	
j75g	47.73	−60.33	42.64	73.88	145	*l03c*	
g00b	50.59	−49.08	15.74	51.54	162	*l23c*	
g25b	52.97	−39.7	−6.72	40.27	190	*l55c*	
g50b	54.85	−32.33	−24.35	40.48	217	*l87c*	
g75b	49.92	−17.29	−36.02	39.96	244	*c20v*	
b00r	40.91	1.28	−42.35	42.37	272	*c53v*	
b25r	26.81	30.38	−52.26	60.45	300	*c87v*	
b50r	32.52	69.06	−42.14	80.9	329	*v68m*	
b75r	39.48	71.47	−3.69	71.57	357	*m34o*	



FRS12_95a; adapted (a) CIELAB data							
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$		
O_{Ma}	38.06	60.0	44.0	74.4	36		
Y_{Ma}	86.77	−5.17	109.32	109.44	93		
L_{Ma}	47.13	−62.67	48.24	79.09	142		
C_{Ma}	55.66	−29.14	−31.99	43.27	228		
V_{Ma}	17.15	50.3	−59.04	77.57	310		
M_{Ma}	40.37	78.64	−33.5	85.48	337		
N_{Ma}	11.58	0.0	0.0	0.0	0		
W_{Ma}	95.02	0.0	0.0	0.0	0		
R_{CIE}	39.92	58.74	27.99	65.07	25		
I_{CIE}	81.26	−2.89	71.56	71.62	92		
G_{CIE}	52.23	−42.42	13.6	44.55	162		
B_{CIE}	30.57	1.41	−46.47	46.49	272		



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ u^*_ϵ = *r00j*
data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_ϵ = *r00j* u^*_d = *m81o*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: **38 63 30**
$LAB^*LCH^*_{Ma}$: **38 70 25**
$lab^*rgb^*_{Ma}$: **1.0 0.0 0.0**
$lab^*olv^*_{Ma}$: **1.0 0.0 0.18**
%Gamut $u^*_{\epsilon,in}$ = **109**
%Regularity $g^*_{R,ext}$ = **31** $g^*_{C,ext}$ = **40**
brilliantness i^*
relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ u^*_ϵ = *r25j*
data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_ϵ = *r25j* u^*_d = *o10y*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: **42 55 49**
$LAB^*LCH^*_{Ma}$: **42 74 42**
$lab^*rgb^*_{Ma}$: **1.0 0.25 0.0**
$lab^*olv^*_{Ma}$: **1.0 0.11 0.0**
%Gamut $u^*_{\epsilon,in}$ = **109**
%Regularity $g^*_{R,ext}$ = **31** $g^*_{C,ext}$ = **40**
brilliantness i^*
relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ u^*_ϵ = *r50j*
data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_ϵ = *r50j* u^*_d = *o40y*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: **54 39 65**
$LAB^*LCH^*_{Ma}$: **54 76 58**
$lab^*rgb^*_{Ma}$: **1.0 0.5 0.0**
$lab^*olv^*_{Ma}$: **1.0 0.4 0.0**
%Gamut $u^*_{\epsilon,in}$ = **109**
%Regularity $g^*_{R,ext}$ = **31** $g^*_{C,ext}$ = **40**
brilliantness i^*
relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ u^*_ϵ = *r75j*
data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_ϵ = *r75j* u^*_d = *o69y*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: **67 21 83**
$LAB^*LCH^*_{Ma}$: **67 86 75**
$lab^*rgb^*_{Ma}$: **1.0 0.75 0.0**
$lab^*olv^*_{Ma}$: **1.0 0.7 0.0**
%Gamut $u^*_{\epsilon,in}$ = **109**
%Regularity $g^*_{R,ext}$ = **31** $g^*_{C,ext}$ = **40**
brilliantness i^*
relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ u^*_ϵ = *j00g*
data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_ϵ = *j00g* u^*_d = *o98y*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: **86 −4 109**
$LAB^*LCH^*_{Ma}$: **86 109 92**
$lab^*rgb^*_{Ma}$: **1.0 1.0 0.0**
$lab^*olv^*_{Ma}$: **1.0 0.99 0.0**
%Gamut $u^*_{\epsilon,in}$ = **109**
%Regularity $g^*_{R,ext}$ = **31** $g^*_{C,ext}$ = **40**
brilliantness i^*
relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ u^*_ϵ = *j25g*
data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_ϵ = *j25g* u^*_d = *y34l*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: **70 −30 83**
$LAB^*LCH^*_{Ma}$: **70 88 109**
$lab^*rgb^*_{Ma}$: **0.75 1.0 0.0**
$lab^*olv^*_{Ma}$: **0.66 1.0 0.0**
%Gamut $u^*_{\epsilon,in}$ = **109**
%Regularity $g^*_{R,ext}$ = **31** $g^*_{C,ext}$ = **40**
brilliantness i^*
relative chroma c^*

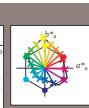
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ u^*_ϵ = *j50g*
data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_ϵ = *j50g* u^*_d = *y69l*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: **57 −48 63**
$LAB^*LCH^*_{Ma}$: **57 80 127**
$lab^*rgb^*_{Ma}$: **0.5 1.0 0.0**
$lab^*olv^*_{Ma}$: **0.3 1.0 0.0**
%Gamut $u^*_{\epsilon,in}$ = **109**
%Regularity $g^*_{R,ext}$ = **31** $g^*_{C,ext}$ = **40**
brilliantness i^*
relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ u^*_ϵ = *j75g*
data for any colour:
*lab*tch** **and** *lab*icu**
Hue texts:
u^*_ϵ = *j75g* u^*_d = *l03c*
contrast reduction factor:
c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: **48 −60 43**
$LAB^*LCH^*_{Ma}$: **48 74 144**
$lab^*rgb^*_{Ma}$: **0.25 1.0 0.0**
$lab^*olv^*_{Ma}$: **0.0 1.0 0.03**
%Gamut $u^*_{\epsilon,in}$ = **109**
%Regularity $g^*_{R,ext}$ = **31** $g^*_{C,ext}$ = **40**
brilliantness i^*
relative chroma c^*

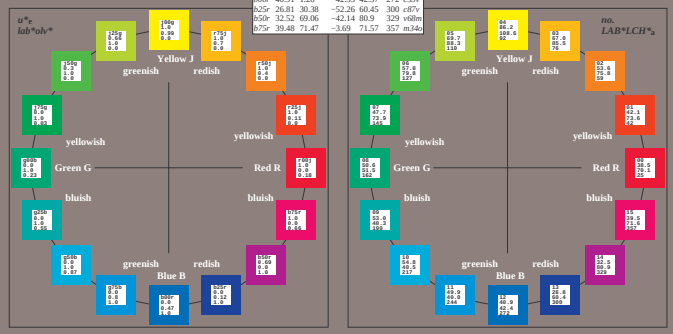
Black separation empty

Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_a and number *no.* = 00 .. 15
elementary hue text:
u^*_b = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 1.0

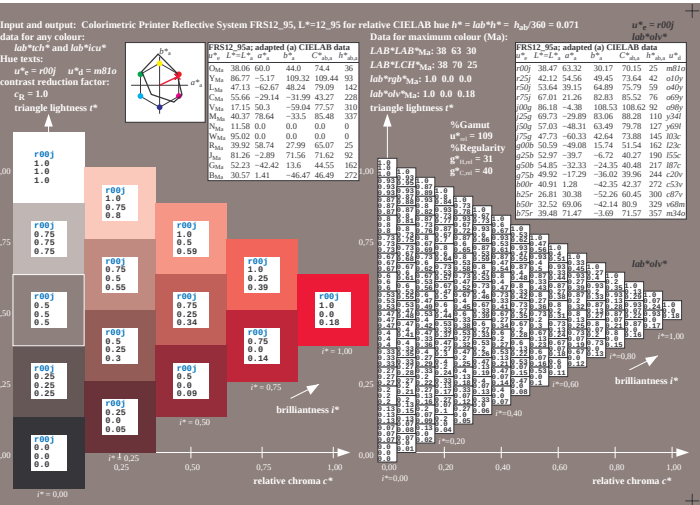
FRS12_95a; adapted (a) CIELAB data						
u^*_a	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_b
r00j	38.47	63.32	30.17	70.15	25	*m81o*
r25j	42.12	54.56	49.45	73.64	42	*o10y*
r50j	53.64	39.15	64.89	75.79	59	*o40y*
r75j	67.01	21.26	82.83	85.52	76	*o60y*
j00g	86.18	−4.38	108.53	108.62	92	*o98y*
j25g	69.73	−29.89	83.06	88.28	110	*y34l*
j50g	57.03	−48.31	63.49	79.78	127	*y69l*
j75g	47.73	−60.33	42.64	73.88	145	*l03c*
g00b	50.59	−49.08	15.74	51.54	162	*l23c*
g25b	52.97	−39.7	−6.72	40.27	190	*l55c*
g50b	54.85	−32.33	−24.35	40.48	217	*l87c*
g75b	49.92	−17.29	−36.02	39.96	244	*c20v*
b00r	40.91	1.28	−42.35	42.37	272	*c53v*
b25r	26.81	30.38	−52.26	60.45	300	*c87v*
b50r	32.52	69.06	−42.14	80.9	329	*v68m*
b75r	39.48	71.47	−3.69	71.57	357	*m34c*



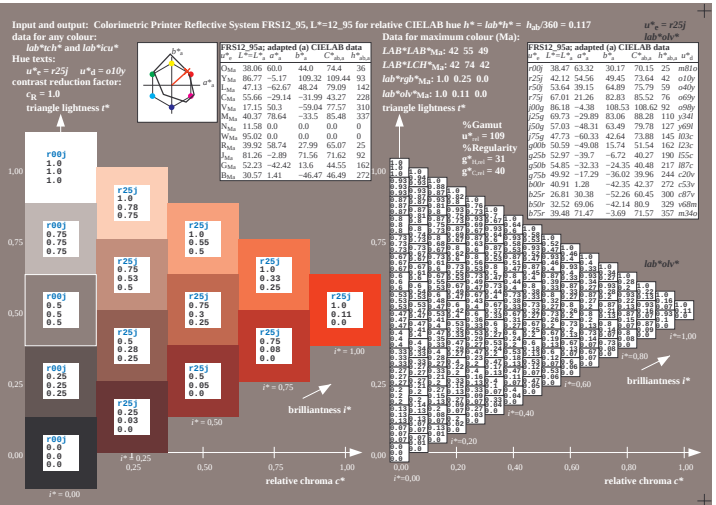
FRS12_95a; adapted (a) CIELAB data						
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O_{Mu}	38.06	60.0	44.0	74.4	36	
Y_{Mu}	86.77	−5.17	109.32	109.44	93	
L_{Mu}	47.13	−62.67	48.24	79.09	142	
C_{Mu}	55.66	−29.14	−31.99	43.27	228	
V_{Mu}	17.15	50.3	−59.04	77.57	310	
M_{Mu}	40.37	78.64	−33.5	85.48	337	
W_{Mu}	11.58	0.0	0.0	0.0	0	
W_{Mu}	95.02	0.0	0.0	0.0	0	
R_{CIE}	39.92	58.74	27.99	65.07	25	
R_{Mu}	81.26	−2.89	71.56	71.62	92	
G_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	



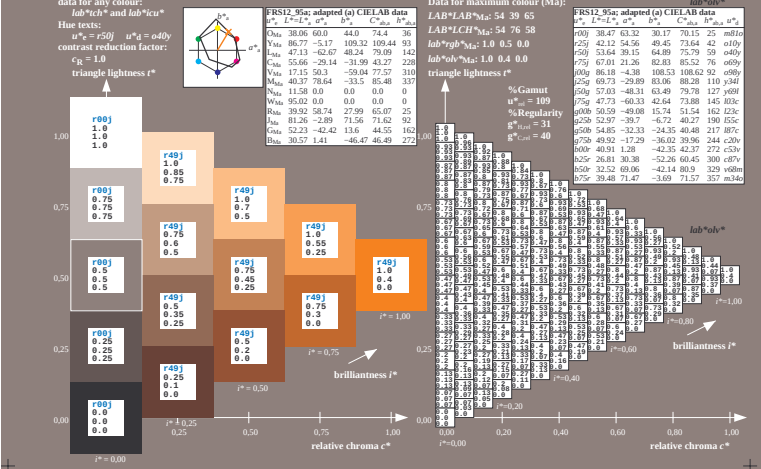
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ u^*_a = *r00j*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_a = *r00j* u^*_d = *m81o*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 38 63 30 *LAB*LCH*$_{Ma}$: 38 70 25 *lab*rgb*$_{Ma}$: 1.0 0.0 0.0 *lab*olv*$_{Ma}$: 1.0 0.0 0.18



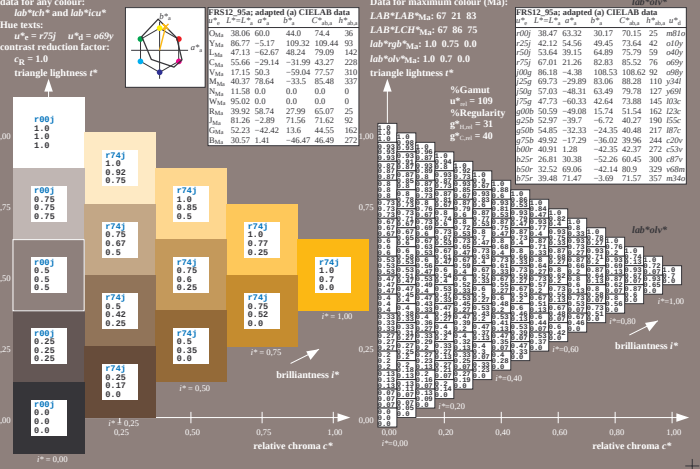
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ u^*_a = *r25j*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_a = *r25j* u^*_d = *o10y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 42 55 49 *LAB*LCH*$_{Ma}$: 42 74 42 *lab*rgb*$_{Ma}$: 1.0 0.25 0.0 *lab*olv*$_{Ma}$: 1.0 0.11 0.0



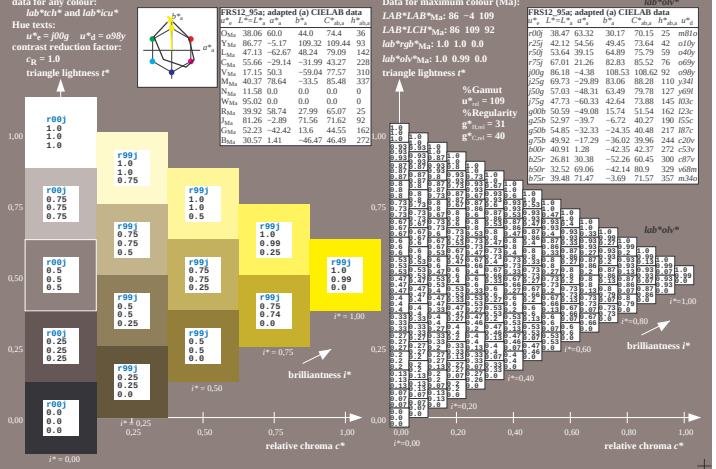
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ u^*_a = *r50j*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_a = *r50j* u^*_d = *o40y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 54 39 65 *LAB*LCH*$_{Ma}$: 54 76 58 *lab*rgb*$_{Ma}$: 1.0 0.5 0.0 *lab*olv*$_{Ma}$: 1.0 0.4 0.0



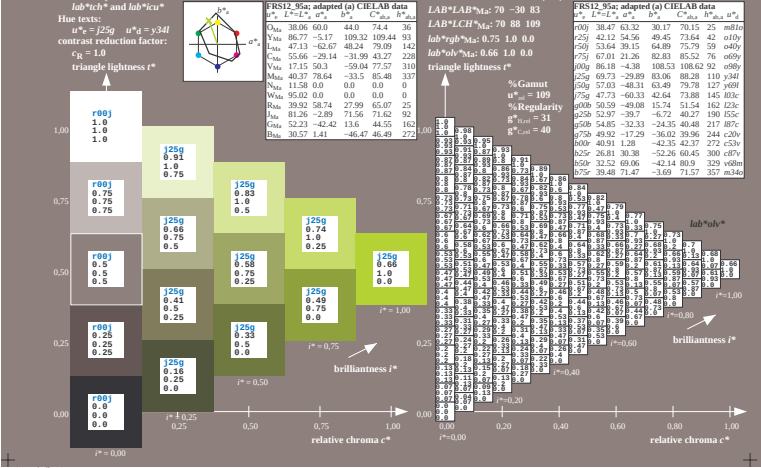
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ u^*_a = *r75j*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_a = *r75j* u^*_d = *o69y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 67 21 83 *LAB*LCH*$_{Ma}$: 67 86 75 *lab*rgb*$_{Ma}$: 1.0 0.75 0.0 *lab*olv*$_{Ma}$: 1.0 0.7 0.0



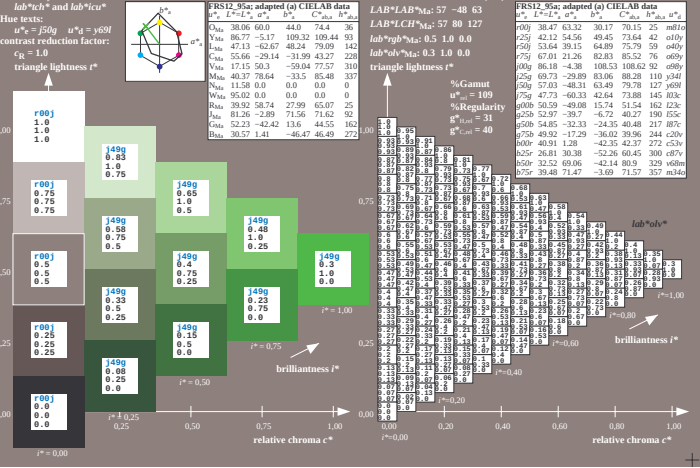
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ u^*_a = *j00g*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_a = *j00g* u^*_d = *o98y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 86 −4 109 *LAB*LCH*$_{Ma}$: 86 109 92 *lab*rgb*$_{Ma}$: 1.0 1.0 0.0 *lab*olv*$_{Ma}$: 1.0 0.99 0.0



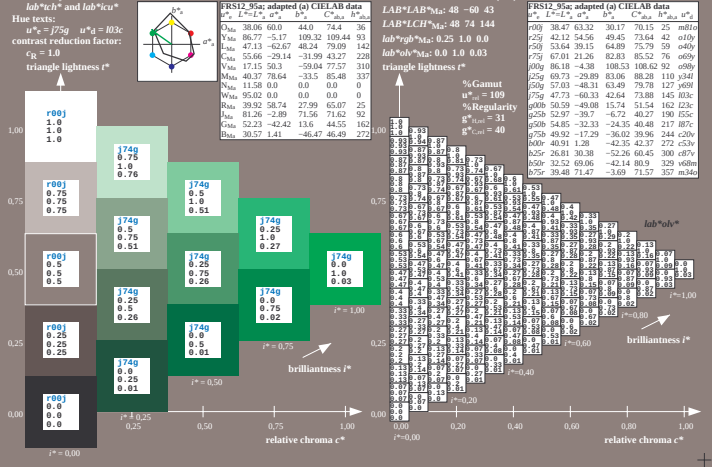
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ u^*_a = *j25g*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_a = *j25g* u^*_d = *y34l*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 70 −30 83 *LAB*LCH*$_{Ma}$: 70 88 109 *lab*rgb*$_{Ma}$: 0.75 1.0 0.0 *lab*olv*$_{Ma}$: 0.66 1.0 0.0



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ u^*_a = *j50g*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_a = *j50g* u^*_d = *y69l*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 57 −48 63 *LAB*LCH*$_{Ma}$: 57 80 127 *lab*rgb*$_{Ma}$: 0.5 1.0 0.0 *lab*olv*$_{Ma}$: 0.3 1.0 0.0



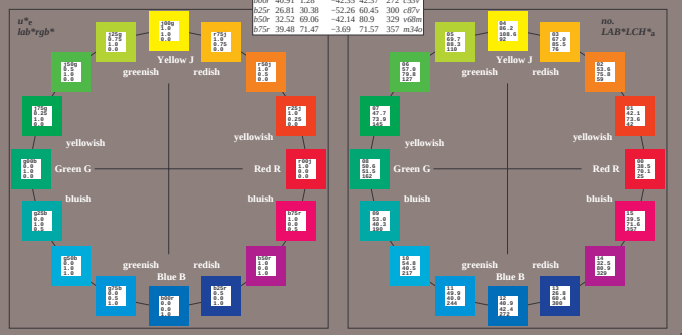
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ u^*_a = *j75g*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_a = *j75g* u^*_d = *l03c*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 48 −60 43 *LAB*LCH*$_{Ma}$: 48 74 144 *lab*rgb*$_{Ma}$: 0.25 1.0 0.0 *lab*olv*$_{Ma}$: 0.0 1.0 0.03



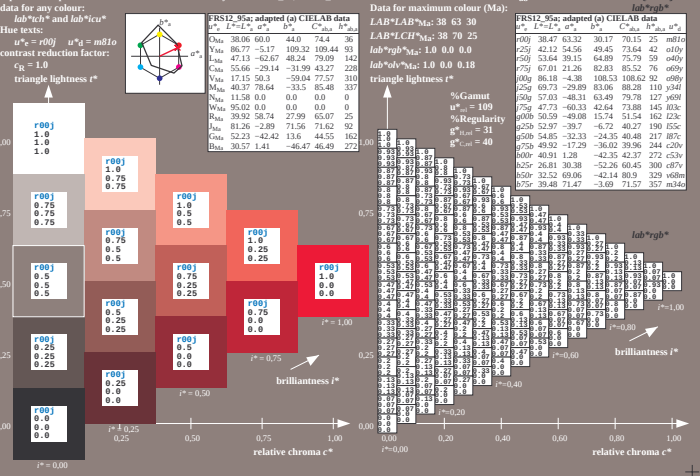
Input and output: Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_R and number *no.* = 00 .. 15
elementary hue text:
u^*_R = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 1.0

FRS12_95a; adapted (a) CIELAB data						
u^*_R	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_R
r00j	38.47	63.32	30.17	70.15	25	*m81o*
r25j	42.12	54.56	49.45	73.64	42	*o10y*
r50j	53.64	39.15	64.89	75.79	59	*o40y*
r75j	67.01	21.26	82.83	85.52	76	*o60y*
j00g	86.18	−4.38	108.53	108.62	92	*o98y*
j25g	69.73	−29.89	83.06	88.28	110	*y34l*
j50g	57.03	−48.31	63.49	79.78	127	*y69l*
j75g	47.73	−60.33	42.64	73.88	145	*l03c*
g00b	50.59	−49.08	15.74	51.54	162	*l23c*
g25b	52.97	−39.7	−6.72	40.27	190	*l55c*
g50b	54.85	−32.33	−24.35	40.48	217	*l87c*
g75b	49.92	−17.29	−36.02	39.96	244	*c20v*
b00r	40.91	1.28	−42.35	42.37	272	*c53v*
b25r	26.81	30.38	−52.26	60.45	300	*c87v*
b50r	32.52	69.06	−42.14	80.9	329	*v68m*
b75r	39.48	71.47	−3.69	71.57	357	*m34c*

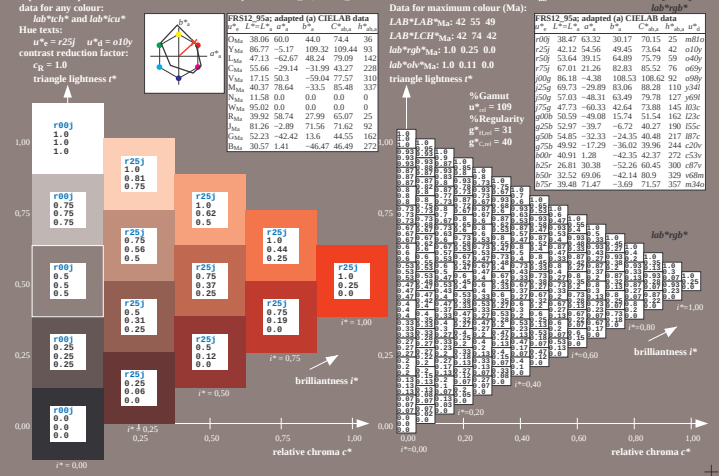
FRS12_95a; adapted (a) CIELAB data						
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_R
O_{Bk}	38.06	60.0	44.0	74.4	36	
Y_{Mk}	86.77	−5.17	109.32	109.44	93	
L_{Mk}	47.13	−62.67	48.24	79.09	142	
C_{Mk}	55.66	−29.14	−31.99	43.27	228	
V_{Mk}	17.15	50.3	−59.04	77.57	310	
M_{Mk}	40.37	78.64	−33.5	85.48	337	
W_{Mk}	11.58	0.0	0.0	0.0	0	
W_{Bk}	95.02	0.0	0.0	0.0	0	
R_{CIE}	39.92	58.74	27.99	65.07	25	
I_{Sk}	81.26	−2.89	71.56	71.62	92	
G_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	



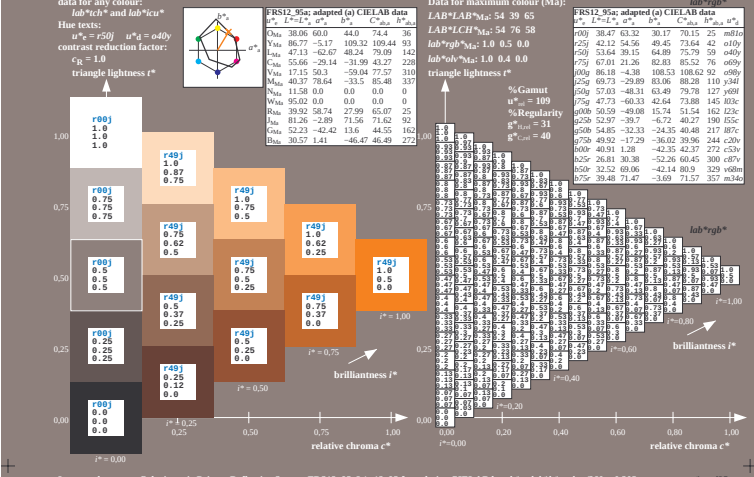
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ u^*_R = *r00j*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_R = *r00j* u^*_d = *m81o*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *lab*rgb**
*LAB*LCH*$_{Ma}$: 38 63 30
*LAB*LCH*$_{Ma}$: 38 70 25
*lab*rgb*$_{Ma}$: 1.0 0.0 0.0
*lab*olv*$_{Ma}$: 1.0 0.0 0.18



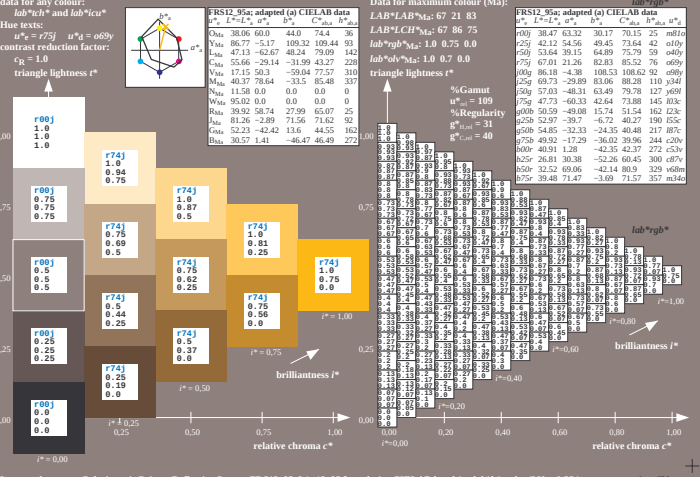
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ u^*_R = *r25j*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_R = *r25j* u^*_d = *o10y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *lab*rgb**
*LAB*LCH*$_{Ma}$: 42 55 49
*LAB*LCH*$_{Ma}$: 42 74 42
*lab*rgb*$_{Ma}$: 1.0 0.25 0.0
*lab*olv*$_{Ma}$: 1.0 0.11 0.0



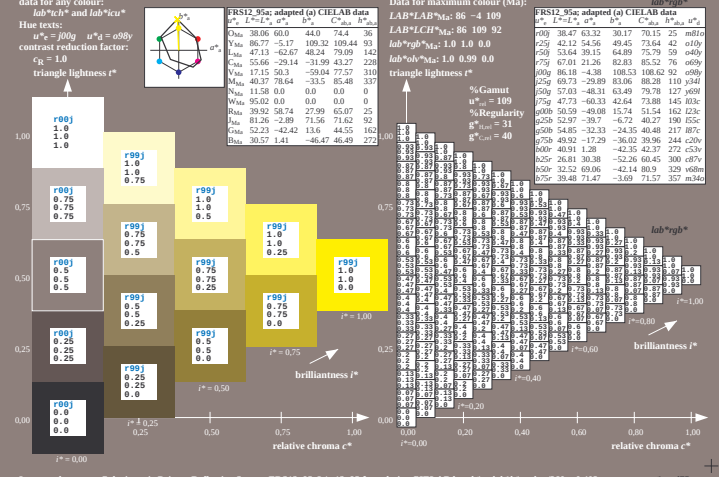
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ u^*_R = *r50j*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_R = *r50j* u^*_d = *o40y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *lab*rgb**
*LAB*LCH*$_{Ma}$: 54 39 65
*LAB*LCH*$_{Ma}$: 54 76 58
*lab*rgb*$_{Ma}$: 1.0 0.5 0.0
*lab*olv*$_{Ma}$: 1.0 0.4 0.0



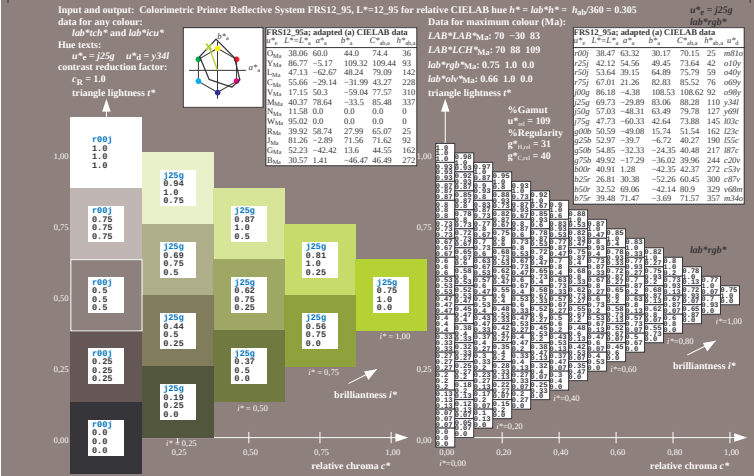
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ u^*_R = *r75j*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_R = *r75j* u^*_d = *o69y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *lab*rgb**
*LAB*LCH*$_{Ma}$: 67 21 83
*LAB*LCH*$_{Ma}$: 67 86 75
*lab*rgb*$_{Ma}$: 1.0 0.75 0.0
*lab*olv*$_{Ma}$: 1.0 0.7 0.0



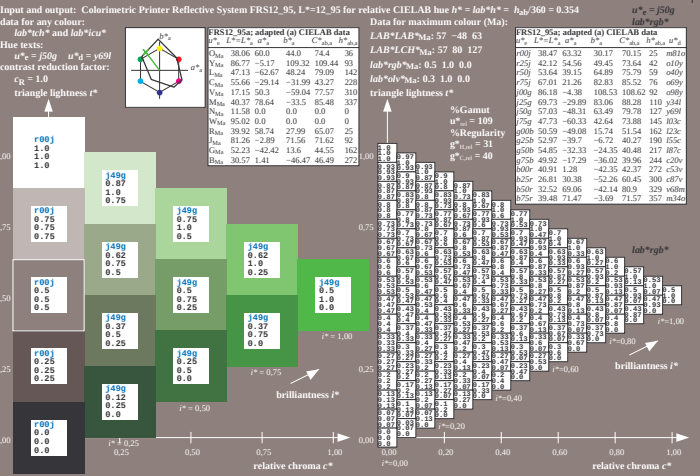
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ u^*_R = *j00g*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_R = *j00g* u^*_d = *o98y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *lab*rgb**
*LAB*LCH*$_{Ma}$: 86 −4 109
*LAB*LCH*$_{Ma}$: 86 109 92
*lab*rgb*$_{Ma}$: 1.0 1.0 0.0
*lab*olv*$_{Ma}$: 1.0 0.99 0.0



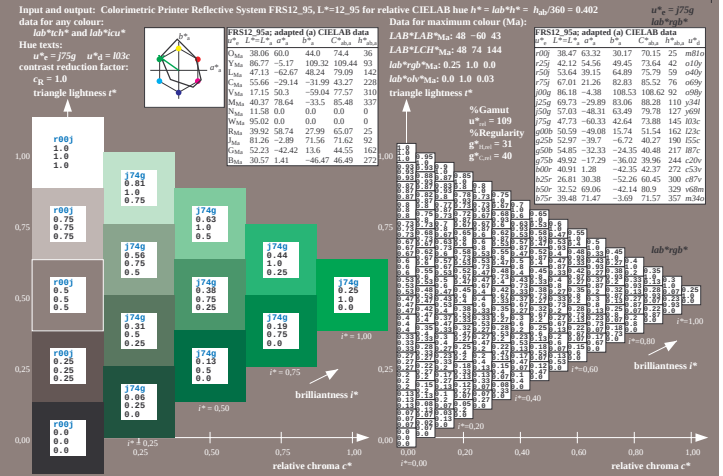
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ u^*_R = *j25g*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_R = *j25g* u^*_d = *y34l*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *lab*rgb**
*LAB*LCH*$_{Ma}$: 70 −30 83
*LAB*LCH*$_{Ma}$: 70 88 109
*lab*rgb*$_{Ma}$: 0.75 1.0 0.0
*lab*olv*$_{Ma}$: 0.66 1.0 0.0



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ u^*_R = *j50g*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_R = *j50g* u^*_d = *y69l*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *lab*rgb**
*LAB*LCH*$_{Ma}$: 57 −48 63
*LAB*LCH*$_{Ma}$: 57 80 127
*lab*rgb*$_{Ma}$: 0.5 1.0 0.0
*lab*olv*$_{Ma}$: 0.3 1.0 0.0

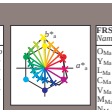


Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ u^*_R = *j75g*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_R = *j75g* u^*_d = *l03c*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *lab*rgb**
*LAB*LCH*$_{Ma}$: 48 −60 43
*LAB*LCH*$_{Ma}$: 48 74 144
*lab*rgb*$_{Ma}$: 0.25 1.0 0.0
*lab*olv*$_{Ma}$: 0.0 1.0 0.03

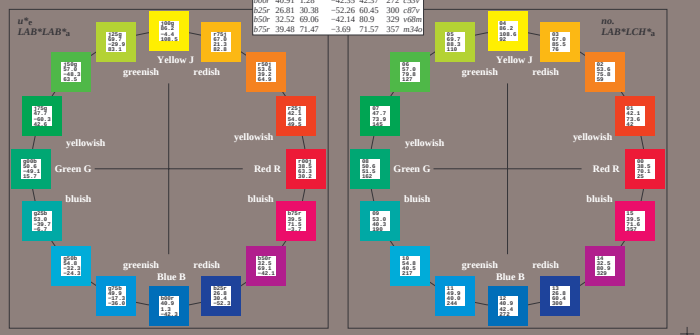


Input and output: Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_R and number *no.* = 00 .. 15
elementary hue text:
u^*_T = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 1.0

FRS12_95a; adapted (a) CIELAB data							
u^*	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_T	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o60y	
j00g	86.18	−4.38	108.53	108.62	92	o98y	
j25g	69.73	−29.89	83.06	88.28	110	y34l	
j50g	57.03	−48.31	63.49	79.78	127	y69l	
j75g	47.73	−60.33	42.64	73.88	145	l03c	
g00b	50.59	−49.08	15.74	51.54	162	l23c	
g25b	52.97	−39.7	−6.72	40.27	190	l55c	
g50b	54.85	−32.33	−24.35	40.48	217	l87c	
g75b	49.92	−17.29	−36.02	39.96	244	c20v	
b00r	40.91	1.28	−42.35	42.37	272	c53v	
b25r	26.81	30.38	−52.26	60.45	300	c87v	
b50r	32.52	69.06	−42.14	80.9	329	v68m	
b75r	39.48	71.47	−3.69	71.57	357	m34c	



FRS12_95a; adapted (a) CIELAB data							
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_T	
O_{Hu}	38.06	60.0	44.0	74.4	36		
Y_{Hu}	86.77	−5.17	109.32	109.44	93		
L_{Hu}	47.13	−62.67	48.24	79.09	142		
C_{Hu}	55.66	−29.14	−31.99	43.27	228		
V_{Hu}	17.15	50.3	−59.04	77.57	310		
M_{Hu}	40.37	78.64	−33.5	85.48	337		
N_{Hu}	11.58	0.0	0.0	0.0	0		
W_{Hu}	95.02	0.0	0.0	0.0	0		
R_{CIE}	39.92	58.74	27.99	65.07	25		
R_{100}	81.26	−2.89	71.56	71.62	92		
GCIE	52.23	−42.42	13.6	44.55	162		
B_{CIE}	30.57	1.41	−46.47	46.49	272		



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ $u^*_R = r00j$
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_R = *r00j* u^*_d = *m81o*
contrast reduction factor: c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 38 63 30 *LAB*LCH**$_{Ma}$: 38 70 25 *lab*rgb**$_{Ma}$: 1.0 0.0 0.0 *lab*olv**$_{Ma}$: 1.0 0.0 0.18
relative chroma c^*
brilliantness j^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ $u^*_R = r25j$
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_R = *r25j* u^*_d = *o10y*
contrast reduction factor: c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 42 55 49 *LAB*LCH**$_{Ma}$: 42 74 42 *lab*rgb**$_{Ma}$: 1.0 0.25 0.0 *lab*olv**$_{Ma}$: 1.0 0.11 0.0
relative chroma c^*
brilliantness j^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ $u^*_R = r50j$
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_R = *r50j* u^*_d = *o40y*
contrast reduction factor: c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 54 39 65 *LAB*LCH**$_{Ma}$: 54 76 58 *lab*rgb**$_{Ma}$: 1.0 0.5 0.0 *lab*olv**$_{Ma}$: 1.0 0.4 0.0
relative chroma c^*
brilliantness j^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ $u^*_R = r75j$
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_R = *r75j* u^*_d = *o69y*
contrast reduction factor: c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 67 21 83 *LAB*LCH**$_{Ma}$: 67 86 75 *lab*rgb**$_{Ma}$: 1.0 0.75 0.0 *lab*olv**$_{Ma}$: 1.0 0.7 0.0
relative chroma c^*
brilliantness j^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ $u^*_R = j00g$
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_R = *j00g* u^*_d = *o98y*
contrast reduction factor: c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 86 −4 109 *LAB*LCH**$_{Ma}$: 86 109 92 *lab*rgb**$_{Ma}$: 1.0 1.0 0.0 *lab*olv**$_{Ma}$: 1.0 0.99 0.0
relative chroma c^*
brilliantness j^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ $u^*_R = j25g$
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_R = *j25g* u^*_d = *y34l*
contrast reduction factor: c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 70 −30 83 *LAB*LCH**$_{Ma}$: 70 88 109 *lab*rgb**$_{Ma}$: 0.75 1.0 0.0 *lab*olv**$_{Ma}$: 0.66 1.0 0.0
relative chroma c^*
brilliantness j^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ $u^*_R = j50g$
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_R = *j50g* u^*_d = *y69l*
contrast reduction factor: c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 57 −48 63 *LAB*LCH**$_{Ma}$: 57 80 127 *lab*rgb**$_{Ma}$: 0.5 1.0 0.0 *lab*olv**$_{Ma}$: 0.3 1.0 0.0
relative chroma c^*
brilliantness j^*

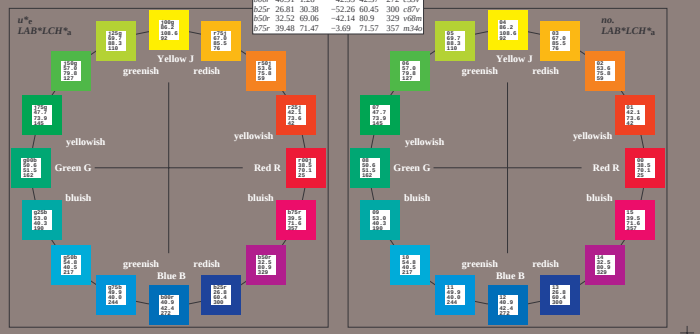
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ $u^*_R = j75g$
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_R = *j75g* u^*_d = *l03c*
contrast reduction factor: c_R = 1.0
triangle lightness t^*
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 48 −60 43 *LAB*LCH**$_{Ma}$: 48 74 144 *lab*rgb**$_{Ma}$: 0.25 1.0 0.0 *lab*olv**$_{Ma}$: 0.0 1.0 0.03
relative chroma c^*
brilliantness j^*

Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_a and number *no.* = 00 .. 15
elementary hue text:
u^*_a = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 1.0

FRS12_95a; adapted (a) CIELAB data							
u^*_a	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o69y	
j00g	86.18	−4.38	108.53	108.62	92	o98y	
j25g	69.73	−29.89	83.06	88.28	110	y34l	
j50g	57.03	−48.31	63.49	79.78	127	y69l	
j75g	47.73	−60.33	42.64	73.88	145	l03c	
g00b	50.59	−49.08	15.74	51.54	162	l23c	
g25b	52.97	−39.7	−6.72	40.27	190	l55c	
g50b	54.85	−32.33	−24.35	40.48	217	l87c	
g75b	49.92	−17.29	−36.02	39.96	244	c20v	
b00r	40.91	1.28	−42.35	42.37	272	c53v	
b25r	26.81	30.38	−52.26	60.45	300	c87v	
b50r	32.52	69.06	−42.14	80.9	329	v68m	
b75r	39.48	71.47	−3.69	71.57	357	m34c	

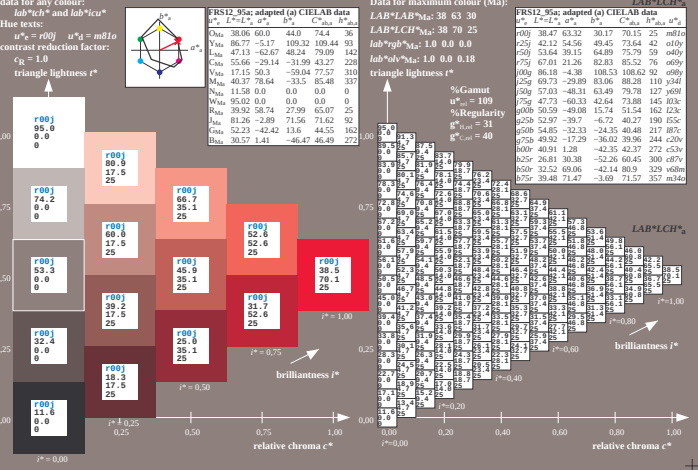
FRS12_95a; adapted (a) CIELAB data							
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a	
O_{Bk}	38.06	60.0	44.0	74.4	36		
Y_{Mk}	86.77	−5.17	109.32	109.44	93		
L_{Mk}	47.13	−62.67	48.24	79.09	142		
C_{Mk}	55.66	−29.14	−31.99	43.27	228		
V_{Mk}	17.15	50.3	−59.04	77.57	310		
M_{Mk}	40.37	78.64	−33.5	85.48	337		
N_{Mk}	11.58	0.0	0.0	0.0	0		
W_{Mk}	95.02	0.0	0.0	0.0	0		
R_{CIE}	39.92	58.74	27.99	65.07	25		
I_{CIE}	81.26	−2.89	71.56	71.62	92		
G_{CIE}	52.23	−42.42	13.6	44.55	162		
B_{CIE}	30.57	1.41	−46.47	46.49	272		

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



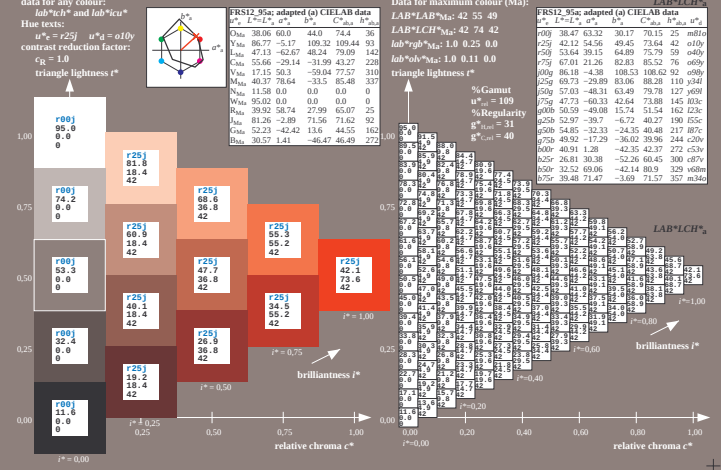
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ $u^*_a = r00j$
data for any colour: LAB*LCH*$_a$
*lab*ch** and *lab*icu**
Hue texts:
u^*_a = *r00j* u^*_d = *m81o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 38 63 30
*LAB*LCH**$_{Ma}$: 38 70 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.18



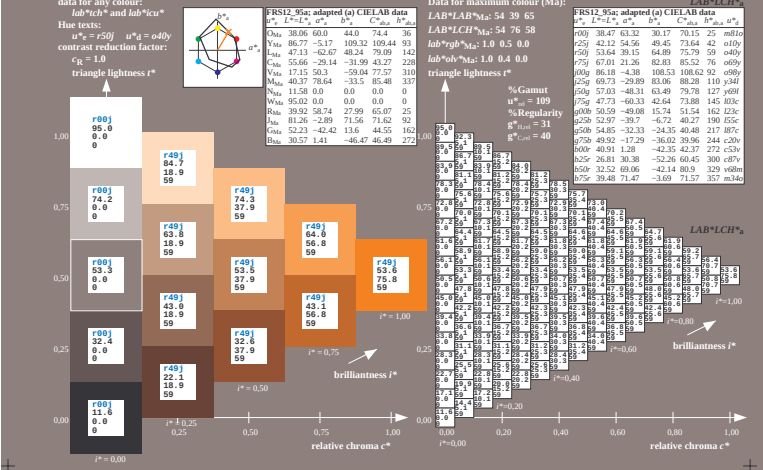
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ $u^*_a = r25j$
data for any colour: LAB*LCH*$_a$
*lab*ch** and *lab*icu**
Hue texts:
u^*_a = *r25j* u^*_d = *o10y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 42 55 49
*LAB*LCH**$_{Ma}$: 42 74 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.11 0.0



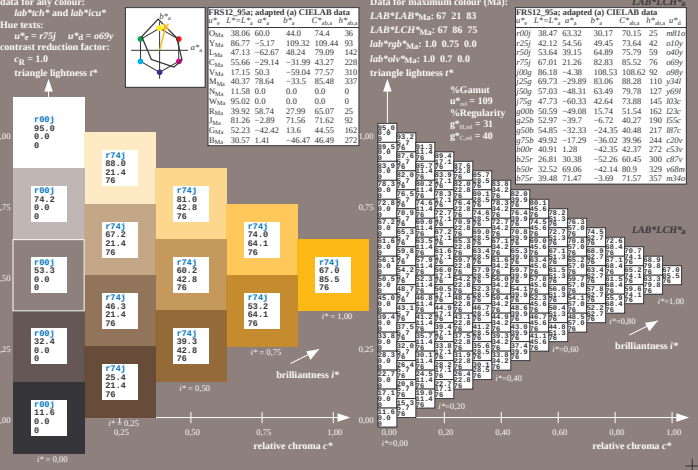
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ $u^*_a = r50j$
data for any colour: LAB*LCH*$_a$
*lab*ch** and *lab*icu**
Hue texts:
u^*_a = *r50j* u^*_d = *o40y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 54 39 65
*LAB*LCH**$_{Ma}$: 54 76 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.4 0.0



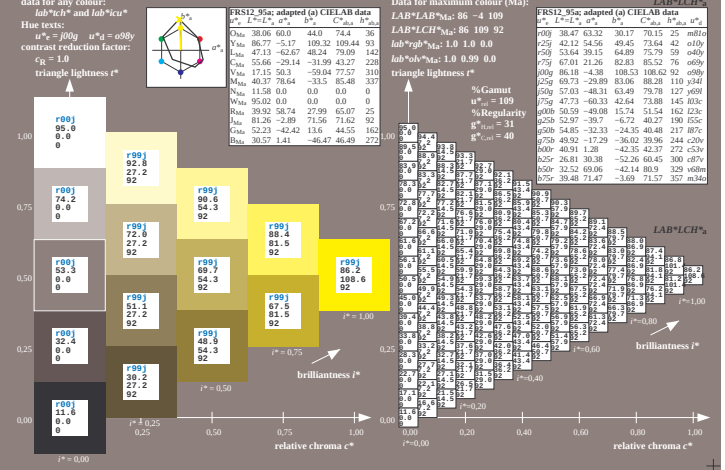
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ $u^*_a = r75j$
data for any colour: LAB*LCH*$_a$
*lab*ch** and *lab*icu**
Hue texts:
u^*_a = *r75j* u^*_d = *o69y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 67 21 83
*LAB*LCH**$_{Ma}$: 67 86 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.7 0.0



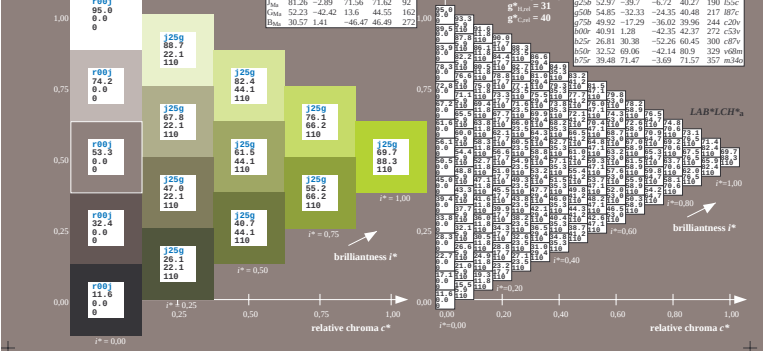
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ $u^*_a = j00g$
data for any colour: LAB*LCH*$_a$
*lab*ch** and *lab*icu**
Hue texts:
u^*_a = *j00g* u^*_d = *o98y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 86 −4 109
*LAB*LCH**$_{Ma}$: 86 109 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.99 0.0



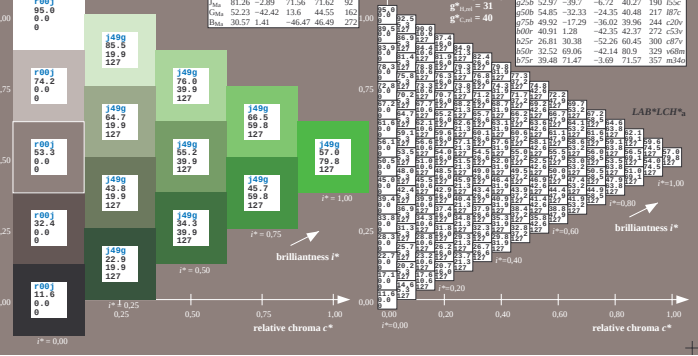
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ $u^*_a = j25g$
data for any colour: LAB*LCH*$_a$
*lab*ch** and *lab*icu**
Hue texts:
u^*_a = *j25g* u^*_d = *y34l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 70 −30 83
*LAB*LCH**$_{Ma}$: 70 88 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.66 1.0 0.0



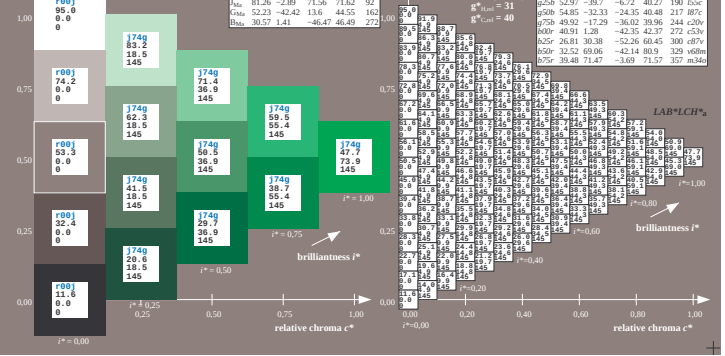
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ $u^*_a = j50g$
data for any colour: LAB*LCH*$_a$
*lab*ch** and *lab*icu**
Hue texts:
u^*_a = *j50g* u^*_d = *y69l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 57 −48 63
*LAB*LCH**$_{Ma}$: 57 80 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.3 1.0 0.0



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ $u^*_a = j75g$
data for any colour: LAB*LCH*$_a$
*lab*ch** and *lab*icu**
Hue texts:
u^*_a = *j75g* u^*_d = *l03c*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**

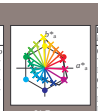
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 48 −60 43
*LAB*LCH**$_{Ma}$: 48 74 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.03

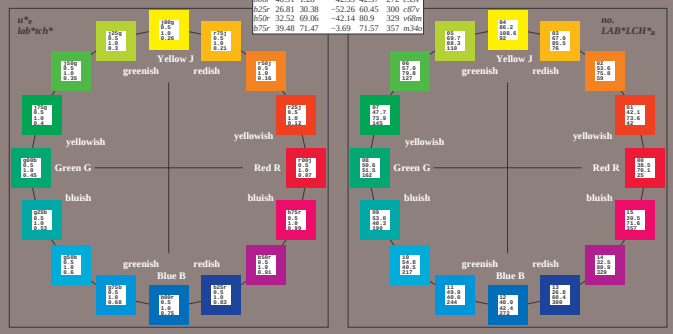


Input and output: Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_a and number *no.* = 00 .. 15
elementary hue text:
u^*_a = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 1.0

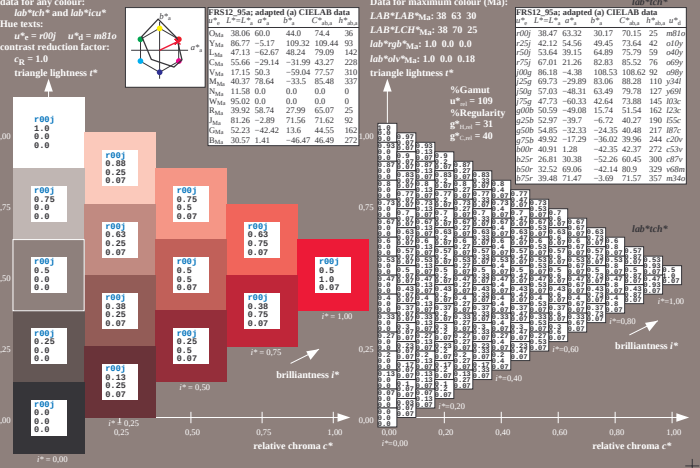
FRS12_95a; adapted (a) CIELAB data						
u^*_a	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	38.47	63.32	30.17	70.15	25	*m81o*
r25j	42.12	54.56	49.45	73.64	42	*o10y*
r50j	53.64	39.15	64.89	75.79	59	*o40y*
r75j	67.01	21.26	82.83	85.52	76	*o60y*
j00g	86.18	−4.38	108.53	108.62	92	*o98y*
j25g	69.73	−29.89	83.06	88.28	110	*y34l*
j50g	57.03	−48.31	63.49	79.78	127	*y69l*
j75g	47.73	−60.33	42.64	73.88	145	*l03c*
g00b	50.59	−49.08	15.74	51.54	162	*l23c*
g25b	52.97	−39.7	−6.72	40.27	190	*l55c*
g50b	54.85	−32.33	−24.35	40.48	217	*l87c*
g75b	49.92	−17.29	−36.02	39.96	244	*c20v*
b00r	40.91	1.28	−42.35	42.37	272	*c53v*
b25r	26.81	30.38	−52.26	60.45	300	*c87v*
b50r	32.52	69.06	−42.14	80.9	329	*v68m*
b75r	39.48	71.47	−3.69	71.57	357	*m34c*

FRS12_95a; adapted (a) CIELAB data						
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O_{Bk}	38.06	60.0	44.0	74.4	36	
Y_{Mk}	86.77	−5.17	109.32	109.44	93	
L_{Mk}	47.13	−62.67	48.24	79.09	142	
C_{Mk}	55.66	−29.14	−31.99	43.27	228	
V_{Mk}	17.15	50.3	−59.04	77.57	310	
M_{Mk}	40.37	78.64	−33.5	85.48	337	
N_{Mk}	11.58	0.0	0.0	0.0	0	
W_{Mk}	95.02	0.0	0.0	0.0	0	
R_{CIE}	39.92	58.74	27.99	65.07	25	
G_{CIE}	81.26	−2.89	71.56	71.62	92	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

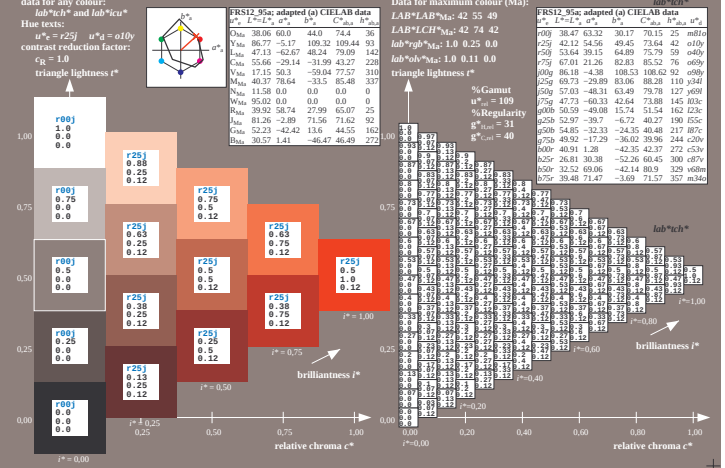




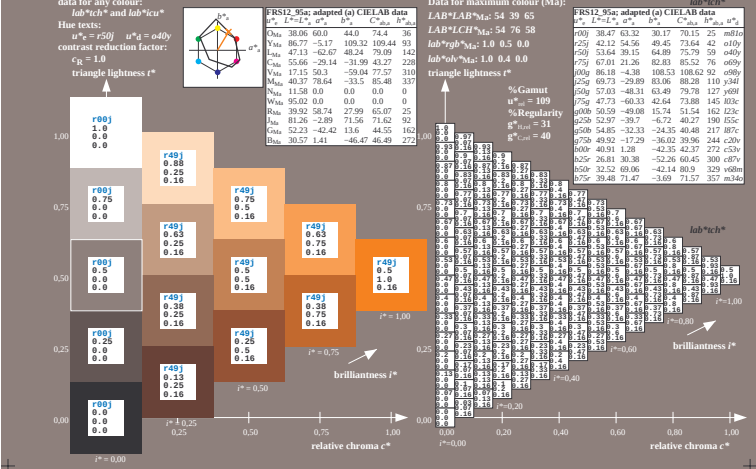
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ u^*_a = *r00j*
data for any colour: *lab*tch** and *lab*icu**
Hue texts: u^*_a = *r00j* u^*d = *m81o*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 38 63 30 *LAB*LCH*$_{Ma}$: 38 70 25 *lab*rgb*$_{Ma}$: 1.0 0.0 0.0 *lab*olv*$_{Ma}$: 1.0 0.0 0.18



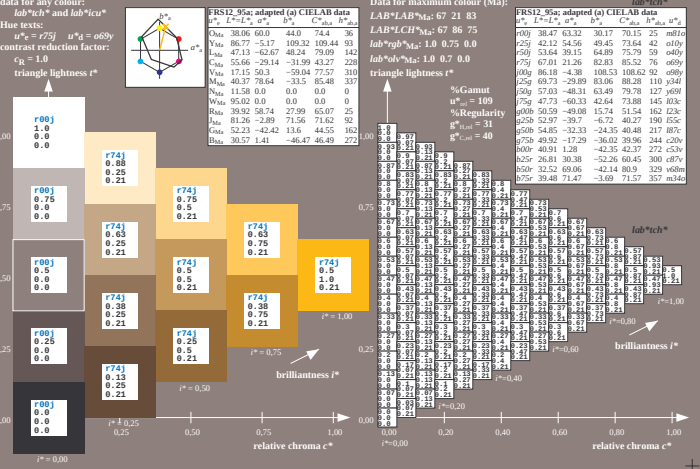
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ u^*_a = *r25j*
data for any colour: *lab*tch** and *lab*icu**
Hue texts: u^*_a = *r25j* u^*d = *o10y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 42 55 49 *LAB*LCH*$_{Ma}$: 42 74 42 *lab*rgb*$_{Ma}$: 1.0 0.25 0.0 *lab*olv*$_{Ma}$: 1.0 0.11 0.0



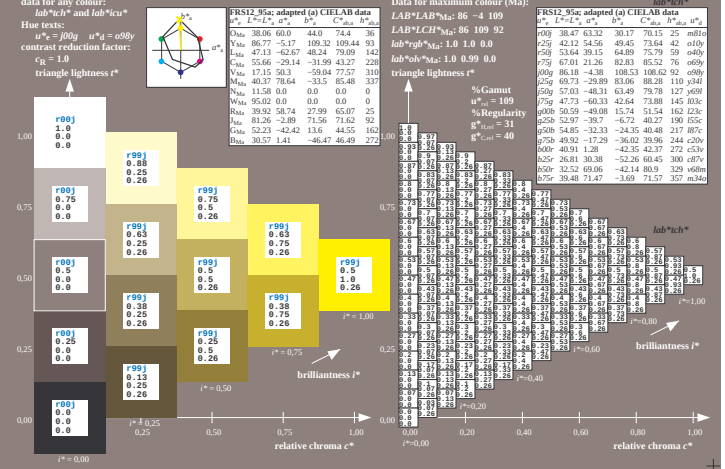
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ u^*_a = *r50j*
data for any colour: *lab*tch** and *lab*icu**
Hue texts: u^*_a = *r50j* u^*d = *o40y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 54 39 65 *LAB*LCH*$_{Ma}$: 54 76 58 *lab*rgb*$_{Ma}$: 1.0 0.5 0.0 *lab*olv*$_{Ma}$: 1.0 0.4 0.0



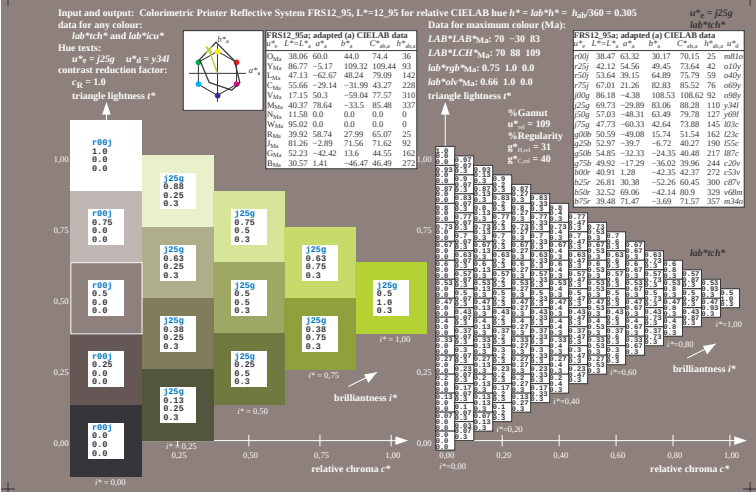
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ u^*_a = *r75j*
data for any colour: *lab*tch** and *lab*icu**
Hue texts: u^*_a = *r75j* u^*d = *o69y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 67 21 83 *LAB*LCH*$_{Ma}$: 67 86 75 *lab*rgb*$_{Ma}$: 1.0 0.75 0.0 *lab*olv*$_{Ma}$: 1.0 0.7 0.0



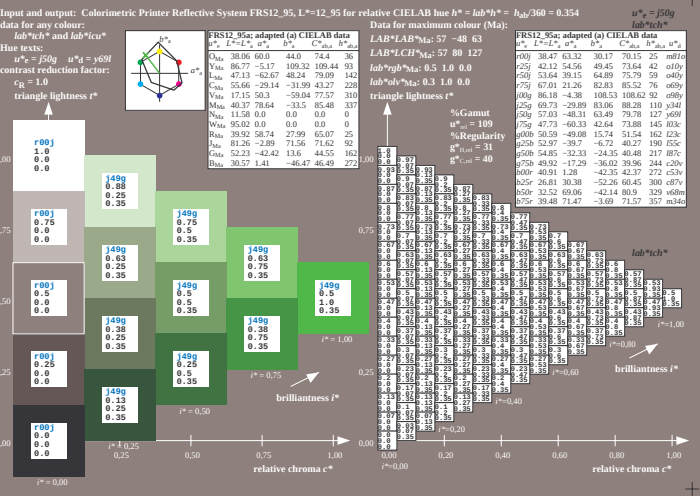
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ u^*_a = *j00g*
data for any colour: *lab*tch** and *lab*icu**
Hue texts: u^*_a = *j00g* u^*d = *o98y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 86 −4 109 *LAB*LCH*$_{Ma}$: 86 109 92 *lab*rgb*$_{Ma}$: 1.0 1.0 0.0 *lab*olv*$_{Ma}$: 1.0 0.99 0.0



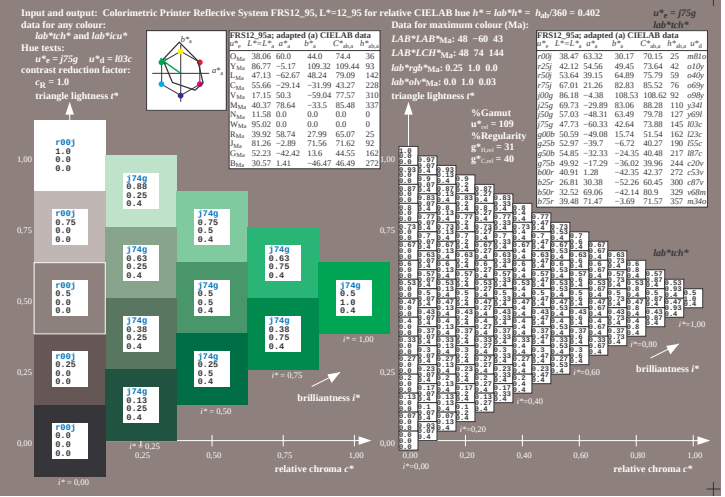
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ u^*_a = *j25g*
data for any colour: *lab*tch** and *lab*icu**
Hue texts: u^*_a = *j25g* u^*d = *y34l*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 70 −30 83 *LAB*LCH*$_{Ma}$: 70 88 109 *lab*rgb*$_{Ma}$: 0.75 1.0 0.0 *lab*olv*$_{Ma}$: 0.66 1.0 0.0



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ u^*_a = *j50g*
data for any colour: *lab*tch** and *lab*icu**
Hue texts: u^*_a = *j50g* u^*d = *y69l*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 57 −48 63 *LAB*LCH*$_{Ma}$: 57 80 127 *lab*rgb*$_{Ma}$: 0.5 1.0 0.0 *lab*olv*$_{Ma}$: 0.3 1.0 0.0



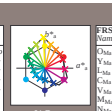
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ u^*_a = *j75g*
data for any colour: *lab*tch** and *lab*icu**
Hue texts: u^*_a = *j75g* u^*d = *l03c*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma): *LAB*LAB*$_{Ma}$: 48 −60 43 *LAB*LCH*$_{Ma}$: 48 74 144 *lab*rgb*$_{Ma}$: 0.25 1.0 0.0 *lab*olv*$_{Ma}$: 0.0 1.0 0.03

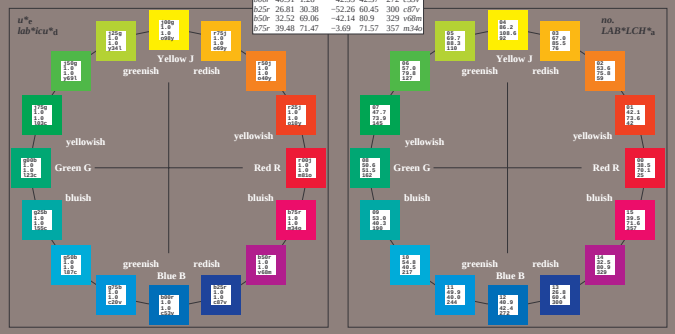


Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_a and number *no.* = 00 .. 15
elementary hue text:
u^*_a = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 1.0

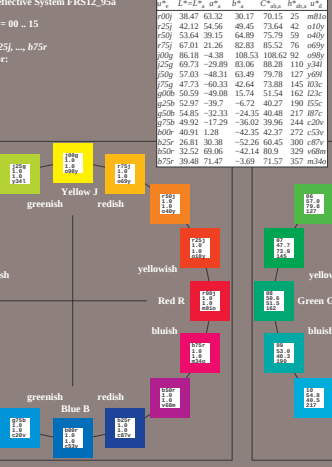
FRS12_95a; adapted (a) CIELAB data							
u^*_a	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a	
r00j	38.47	63.32	30.17	70.15	25	m81o	
r25j	42.12	54.56	49.45	73.64	42	o10y	
r50j	53.64	39.15	64.89	75.79	59	o40y	
r75j	67.01	21.26	82.83	85.52	76	o60y	
j00g	86.18	−4.38	108.53	108.62	92	o98y	
j25g	69.73	−29.89	83.06	88.28	110	y34l	
j50g	57.03	−48.31	63.49	79.78	127	y69l	
j75g	47.73	−60.33	42.64	73.88	145	l03c	
g00b	50.59	−49.08	15.74	51.54	162	l23c	
g25b	52.97	−39.7	−6.72	40.27	190	l55c	
g50b	54.85	−32.33	−24.35	40.48	217	l87c	
g75b	49.92	−17.29	−36.02	39.96	244	c20v	
b00r	40.91	1.28	−42.35	42.37	272	c53v	
b25r	26.81	30.38	−52.26	60.45	300	c87v	
b50r	32.52	69.06	−42.14	80.9	329	v68m	
b75r	39.48	71.47	−3.69	71.57	357	m34c	

FRS12_95a; adapted (a) CIELAB data							
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a	
O_{Bk}	38.06	60.0	44.0	74.4	36		
Y_{Bk}	86.77	−5.17	109.32	109.44	93		
L_{Bk}	47.13	−62.67	48.24	79.09	142		
C_{Bk}	55.66	−29.14	−31.99	43.27	228		
V_{Bk}	17.15	50.3	−59.04	77.57	310		
M_{Bk}	40.37	78.64	−33.5	85.48	337		
N_{Bk}	11.58	0.0	0.0	0.0	0		
W_{Bk}	95.02	0.0	0.0	0.0	0		
R_{Bk}	39.92	58.74	27.99	65.07	25		
I_{Bk}	81.26	−2.89	71.56	71.62	92		
B_{Bk}	30.57	1.41	−46.47	46.49	272		





Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ u^*_a = r00j
data for any colour: *lab*ch** and *lab*icu**
Hue texts: $lab^*icu^*_d$
u^*_a = *r00j* u^*_d = *m81o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 38 63 30
$LAB^*LCH^*_{Ma}$: 38 70 25
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.0
$lab^*olv^*_{Ma}$: 1.0 0.0 0.18



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ u^*_a = r25j
data for any colour: *lab*ch** and *lab*icu**
Hue texts: $lab^*icu^*_d$
u^*_a = *r25j* u^*_d = *o10y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 42 55 49
$LAB^*LCH^*_{Ma}$: 42 74 42
$lab^*rgb^*_{Ma}$: 1.0 0.25 0.0
$lab^*olv^*_{Ma}$: 1.0 0.11 0.0

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ u^*_a = r50j
data for any colour: *lab*ch** and *lab*icu**
Hue texts: $lab^*icu^*_d$
u^*_a = *r50j* u^*_d = *o40y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 54 39 65
$LAB^*LCH^*_{Ma}$: 54 76 58
$lab^*rgb^*_{Ma}$: 1.0 0.5 0.0
$lab^*olv^*_{Ma}$: 1.0 0.4 0.0

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ u^*_a = r75j
data for any colour: *lab*ch** and *lab*icu**
Hue texts: $lab^*icu^*_d$
u^*_a = *r75j* u^*_d = *o69y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 67 21 83
$LAB^*LCH^*_{Ma}$: 67 86 75
$lab^*rgb^*_{Ma}$: 1.0 0.75 0.0
$lab^*olv^*_{Ma}$: 1.0 0.7 0.0

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ u^*_a = j00g
data for any colour: *lab*ch** and *lab*icu**
Hue texts: $lab^*icu^*_d$
u^*_a = *j00g* u^*_d = *o98y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 86 −4 109
$LAB^*LCH^*_{Ma}$: 86 109 92
$lab^*rgb^*_{Ma}$: 1.0 1.0 0.0
$lab^*olv^*_{Ma}$: 1.0 0.99 0.0

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ u^*_a = j25g
data for any colour: *lab*ch** and *lab*icu**
Hue texts: $lab^*icu^*_d$
u^*_a = *j25g* u^*_d = *y34l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 70 −30 83
$LAB^*LCH^*_{Ma}$: 70 88 109
$lab^*rgb^*_{Ma}$: 0.75 1.0 0.0
$lab^*olv^*_{Ma}$: 0.66 1.0 0.0

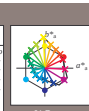
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ u^*_a = j50g
data for any colour: *lab*ch** and *lab*icu**
Hue texts: $lab^*icu^*_d$
u^*_a = *j50g* u^*_d = *y69l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 57 −48 63
$LAB^*LCH^*_{Ma}$: 57 80 127
$lab^*rgb^*_{Ma}$: 0.5 1.0 0.0
$lab^*olv^*_{Ma}$: 0.3 1.0 0.0

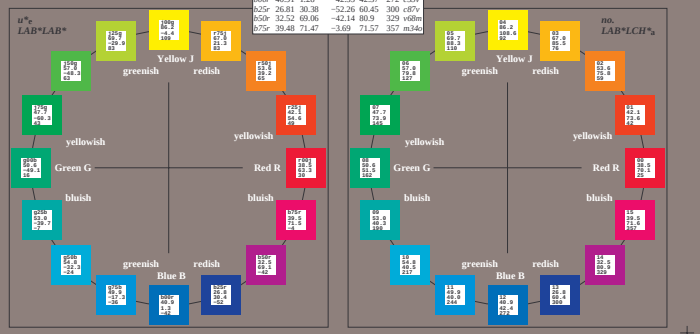
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ u^*_a = j75g
data for any colour: *lab*ch** and *lab*icu**
Hue texts: $lab^*icu^*_d$
u^*_a = *j75g* u^*_d = *l03c*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 48 −60 43
$LAB^*LCH^*_{Ma}$: 48 74 144
$lab^*rgb^*_{Ma}$: 0.25 1.0 0.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.03

Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_a and number *no.* = 00 .. 15
elementary hue text:
u^*_a = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 1.0

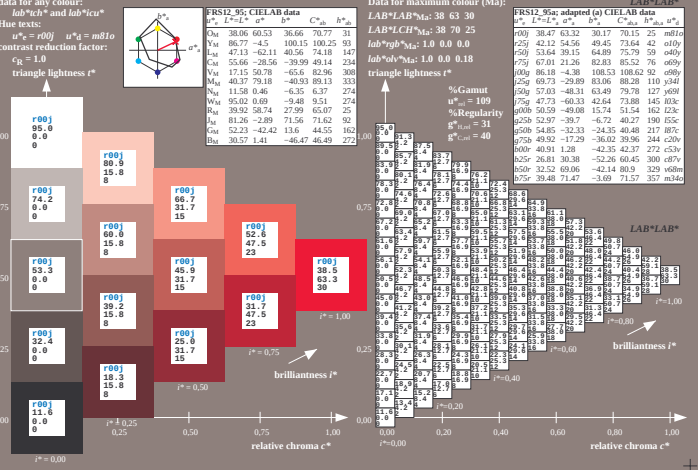
FRS12_95a; adapted (a) CIELAB data						
u^*_a	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	38.47	63.32	30.17	70.15	25	*m81o*
r25j	42.12	54.56	49.45	73.64	42	*o10y*
r50j	53.64	39.15	64.89	75.79	59	*o40y*
r75j	67.01	21.26	82.83	85.52	76	*o60y*
j00g	86.18	−4.38	108.53	108.62	92	*o98y*
j25g	69.73	−29.89	83.06	88.28	110	*y34l*
j50g	57.03	−48.31	63.49	79.78	127	*y69l*
j75g	47.73	−60.33	42.64	73.88	145	*l03c*
g00b	50.59	−49.08	15.74	51.54	162	*l23c*
g25b	52.97	−39.7	−6.72	40.27	190	*l55c*
g50b	54.85	−32.33	−24.35	40.48	217	*l87c*
g75b	49.92	−17.29	−36.02	39.96	244	*c20v*
b00r	40.91	1.28	−42.35	42.37	272	*c53v*
b25r	26.81	30.38	−52.26	60.45	300	*c87v*
b50r	32.52	69.06	−42.14	80.9	329	*v68m*
b75r	39.48	71.47	−3.69	71.57	357	*m34c*

FRS12_95; CIELAB data						
Name	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}	
O_{Hd}	38.06	60.53	36.66	70.77	31	
Y_{Md}	86.77	−4.5	100.15	100.25	93	
L_{Md}	47.13	−62.11	40.56	74.18	147	
C_{Md}	55.66	−28.56	−39.99	49.14	234	
V_{Md}	17.15	50.78	−65.6	82.96	308	
M_{Md}	40.37	79.18	−40.93	89.13	333	
N_{Md}	11.58	0.46	−6.35	6.37	274	
W_{Md}	95.02	0.69	−9.48	9.51	274	
R_{CIE}	39.92	58.74	27.99	65.07	25	
I_{CIE}	81.26	−2.89	71.56	71.62	92	
G_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

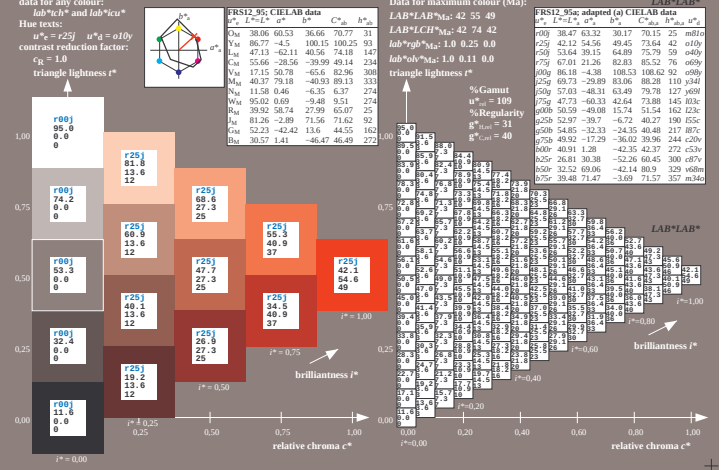




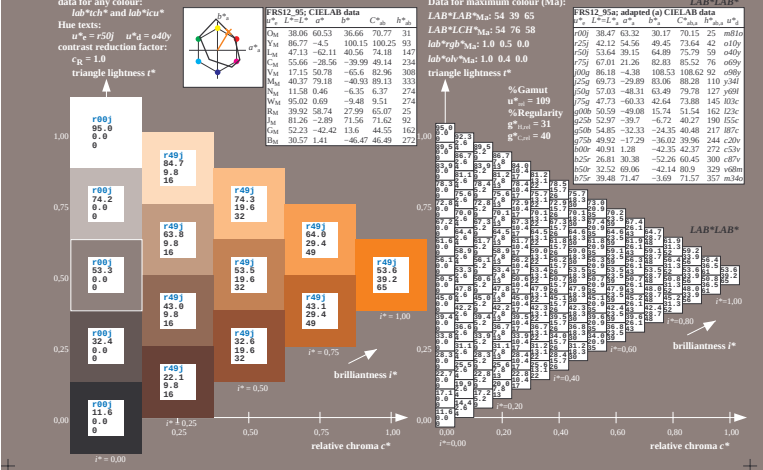
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ u^*_a = *r00j* LAB*LAB*
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_a = *r00j* u^*_d = *m81o*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 38 63 30
*LAB*LCH**$_{Ma}$: 38 70 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.18



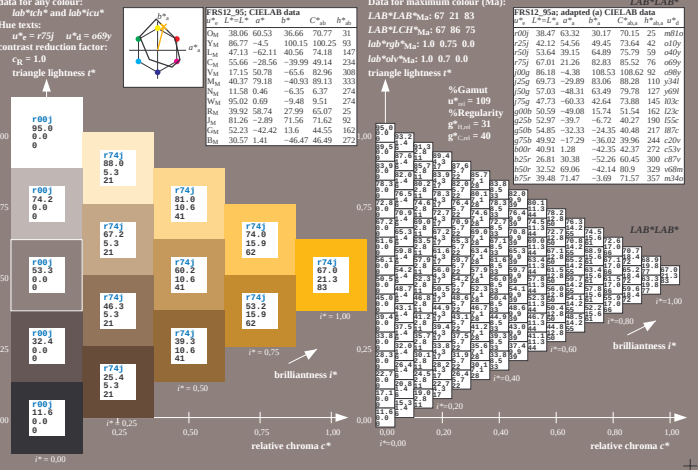
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ u^*_a = *r25j* LAB*LAB*
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_a = *r25j* u^*_d = *o10y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 42 55 49
*LAB*LCH**$_{Ma}$: 42 74 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.11 0.0



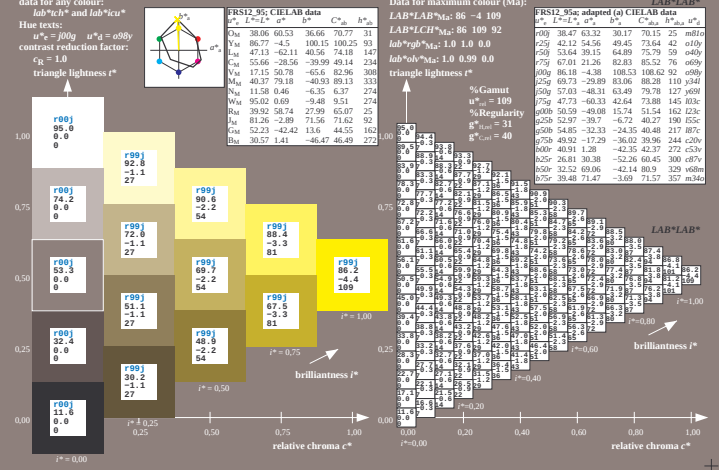
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ u^*_a = *r50j* LAB*LAB*
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_a = *r50j* u^*_d = *o40y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 54 39 65
*LAB*LCH**$_{Ma}$: 54 76 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.4 0.0



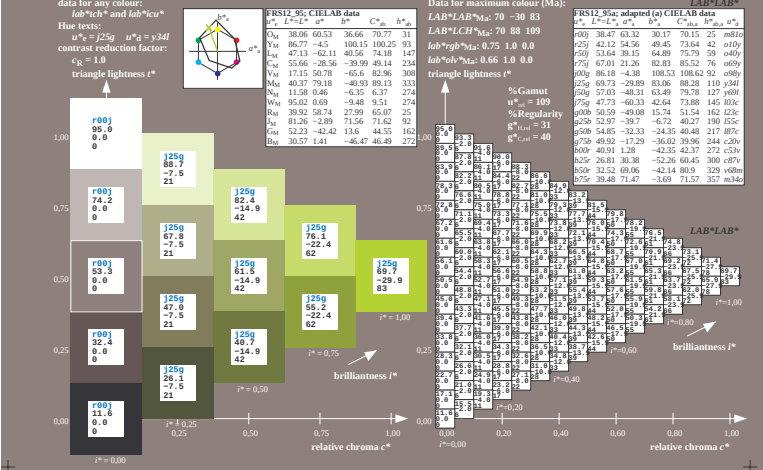
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ u^*_a = *r75j* LAB*LAB*
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_a = *r75j* u^*_d = *o69y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 67 21 83
*LAB*LCH**$_{Ma}$: 67 86 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.7 0.0



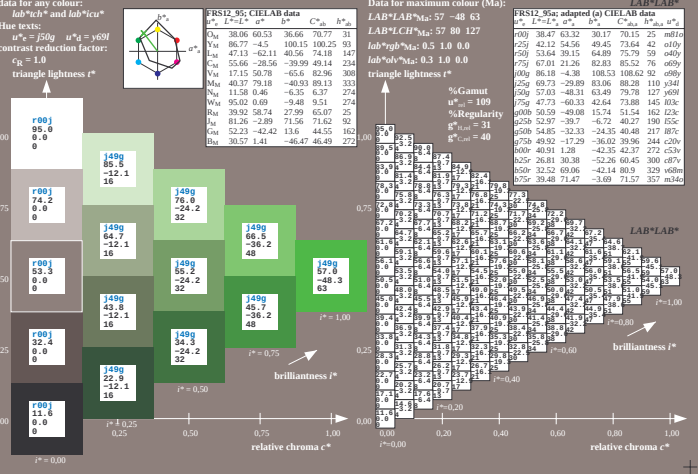
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ u^*_a = *j00g* LAB*LAB*
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_a = *j00g* u^*_d = *o98y*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 86 −4 109
*LAB*LCH**$_{Ma}$: 86 109 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.99 0.0



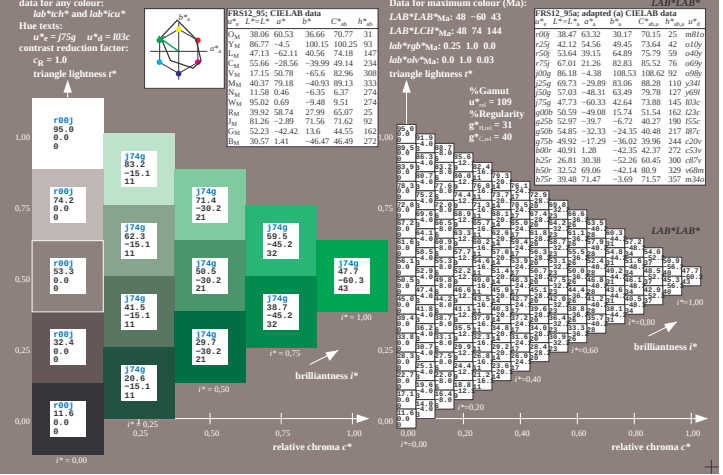
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ u^*_a = *j25g* LAB*LAB*
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_a = *j25g* u^*_d = *y34l*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 70 −30 83
*LAB*LCH**$_{Ma}$: 70 88 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.66 1.0 0.0



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ u^*_a = *j50g* LAB*LAB*
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_a = *j50g* u^*_d = *y69l*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 57 −48 63
*LAB*LCH**$_{Ma}$: 57 80 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.3 1.0 0.0



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ u^*_a = *j75g* LAB*LAB*
data for any colour: *lab*ch* and lab*icu**
Hue texts: u^*_a = *j75g* u^*_d = *l03c*
contrast reduction factor: c_R = 1.0
triangle lightness *t**
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 48 −60 43
*LAB*LCH**$_{Ma}$: 48 74 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.03



Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
*u*e* and number *no.* = 00 .. 15
elementary hue text:
*u*e* = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 1.0

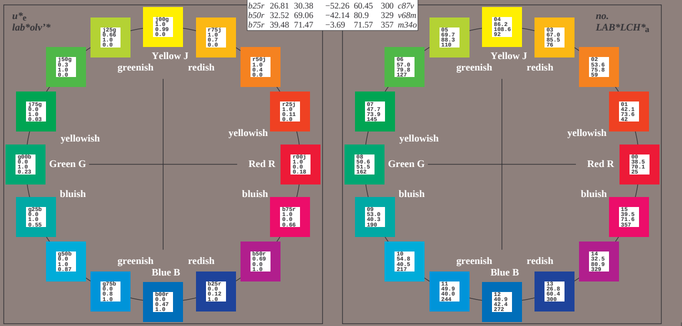
FRS12_95a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o

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

FRS12_95a; CIELAB data

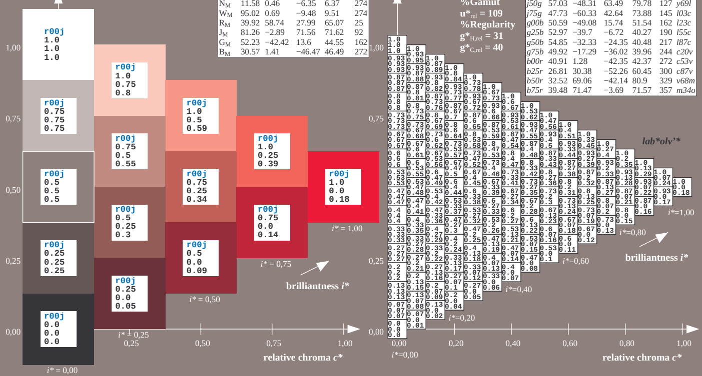
Name	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	38.06	60.53	36.66	70.77	31
Y_M	86.77	−4.5	100.15	100.25	93
L_M	47.13	−62.11	40.56	74.18	147
C_M	55.66	−28.56	−39.99	49.14	234
V_M	17.15	50.78	−65.6	82.96	308
M_M	40.37	79.18	−40.93	89.13	333
N_M	11.58	0.46	−6.35	6.37	274
W_M	95.02	0.69	−9.48	9.51	274
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272



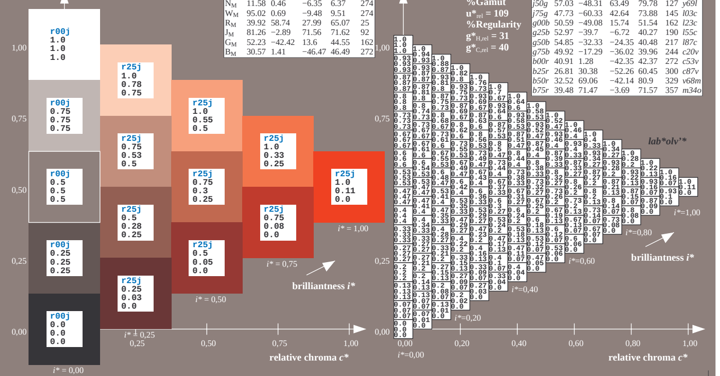
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ — u^*_e = r00j, lab*olv'*
data for any colour: *lab*tch** and *lab*icu**
Hue texts: u^*_e = r00j u^*_d = m81o
contrast reduction factor: c_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**Ma: 38 63 30
*LAB*LCH**Ma: 38 70 25
*lab*rgb**Ma: 1.0 0.0 0.0
*lab*olv**Ma: 1.0 0.0 0.18

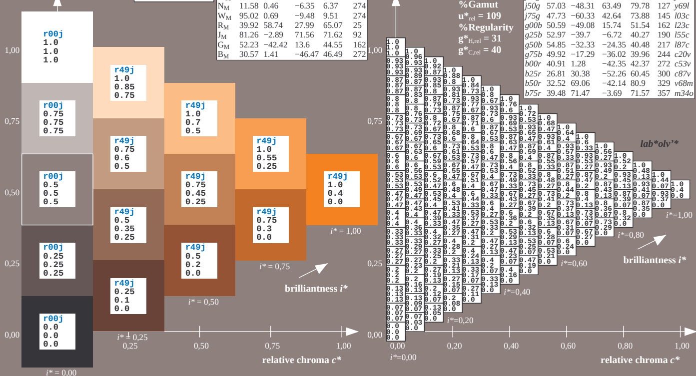
(CIELAB data tables as above, with R_M, J_M, G_M, B_M rows; %Gamut u^*_{rel} = 109; %Regularity $g^*_{H,rel}$ = 31, $g^*_{C,rel}$ = 40)



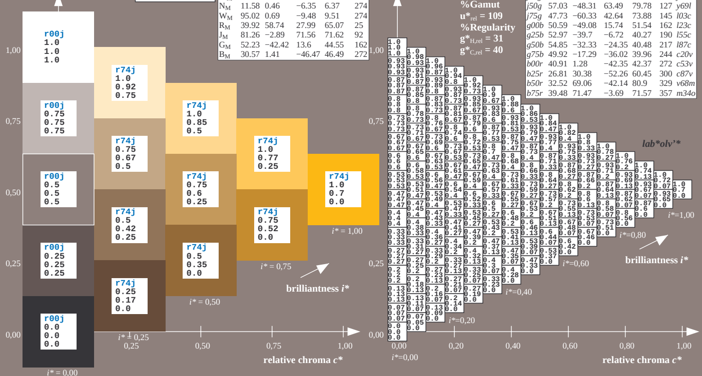
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ — u^*_e = r25j, lab*olv'*
Hue texts: u^*_e = r25j u^*_d = o10y
Data for maximum colour (Ma):
*LAB*LAB**Ma: 42 55 49
*LAB*LCH**Ma: 42 74 42
*lab*rgb**Ma: 1.0 0.25 0.0
*lab*olv**Ma: 1.0 0.11 0.0



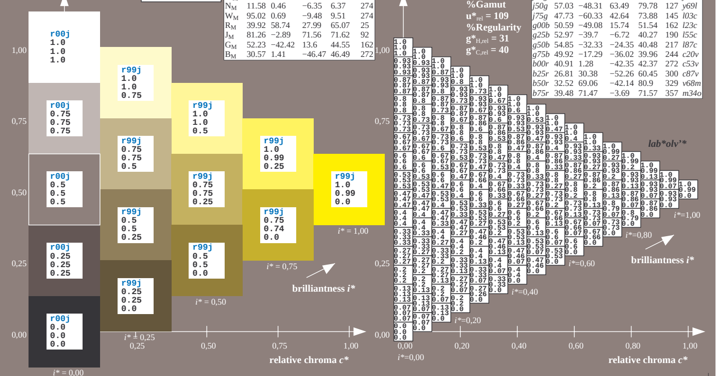
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ — u^*_e = r50j, lab*olv'*
Hue texts: u^*_e = r50j u^*_d = o40y
Data for maximum colour (Ma):
*LAB*LAB**Ma: 54 39 65
*LAB*LCH**Ma: 54 76 58
*lab*rgb**Ma: 1.0 0.5 0.0
*lab*olv**Ma: 1.0 0.4 0.0



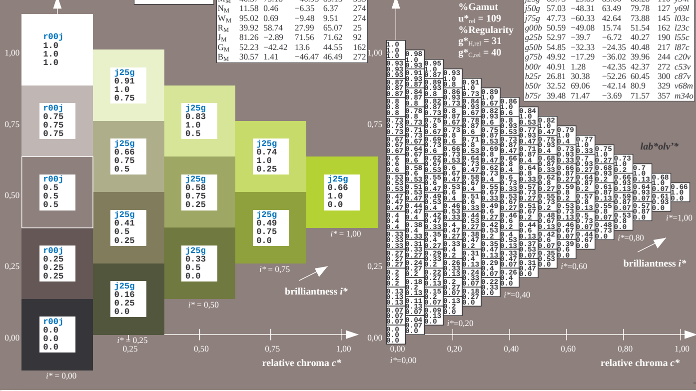
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ — u^*_e = r75j, lab*olv'*
Hue texts: u^*_e = r75j u^*_d = o69y
Data for maximum colour (Ma):
*LAB*LAB**Ma: 67 21 83
*LAB*LCH**Ma: 67 86 75
*lab*rgb**Ma: 1.0 0.75 0.0
*lab*olv**Ma: 1.0 0.7 0.0



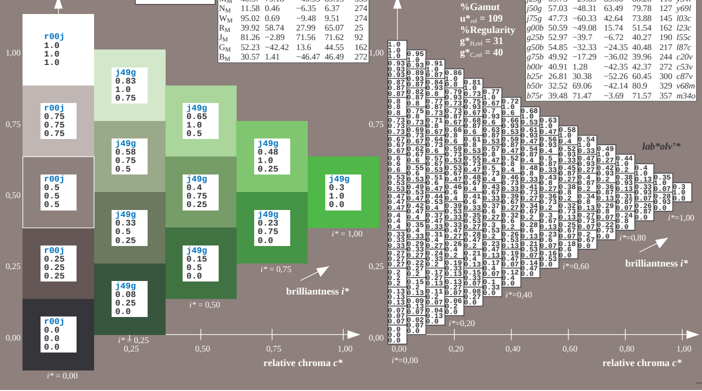
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ — u^*_e = j00g, lab*olv'*
Hue texts: u^*_e = j00g u^*_d = o98y
Data for maximum colour (Ma):
*LAB*LAB**Ma: 86 −4 109
*LAB*LCH**Ma: 86 109 92
*lab*rgb**Ma: 1.0 1.0 0.0
*lab*olv**Ma: 1.0 0.99 0.0



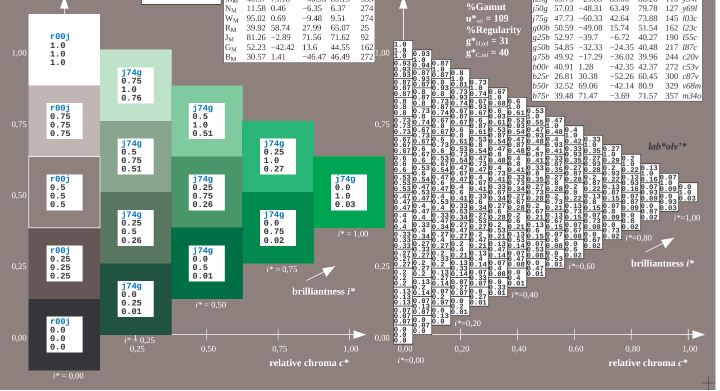
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ — u^*_e = j25g, lab*olv'*
Hue texts: u^*_e = j25g u^*_d = y34l
Data for maximum colour (Ma):
*LAB*LAB**Ma: 70 −30 83
*LAB*LCH**Ma: 70 88 109
*lab*rgb**Ma: 0.75 1.0 0.0
*lab*olv**Ma: 0.66 1.0 0.0



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ — u^*_e = j50g, lab*olv'*
Hue texts: u^*_e = j50g u^*_d = y69l
Data for maximum colour (Ma):
*LAB*LAB**Ma: 57 −48 63
*LAB*LCH**Ma: 57 80 127
*lab*rgb**Ma: 0.5 1.0 0.0
*lab*olv**Ma: 0.3 1.0 0.0



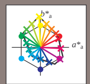
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ — u^*_e = j75g, lab*olv'*
Hue texts: u^*_e = j75g u^*_d = l03c
Data for maximum colour (Ma):
*LAB*LAB**Ma: 48 −60 43
*LAB*LCH**Ma: 48 74 144
*lab*rgb**Ma: 0.25 1.0 0.0
*lab*olv**Ma: 0.0 1.0 0.03



Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_e and number *no.* = 00 .. 15
elementary hue text:
u^*_e = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 1.0

FRS12_95a; adapted (a) CIELAB data

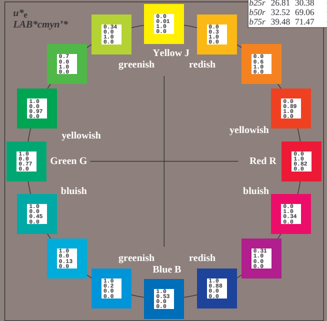
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o

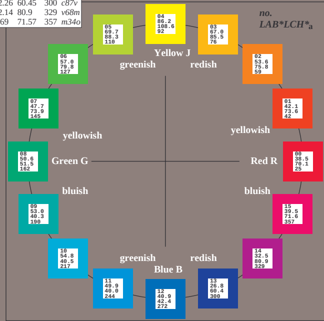


%Gamut
u^*_{rel} = 109
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 40

FRS12_95a; CIELAB data

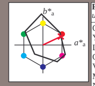
Name	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	38.06	60.53	36.66	70.77	31
Y_M	86.77	−4.5	100.15	100.25	93
L_M	47.13	−62.11	40.56	74.18	147
C_M	55.66	−28.56	−39.99	49.14	234
V_M	17.15	50.78	−65.6	82.96	308
M_M	40.37	79.18	−40.93	89.13	333
N_M	11.58	0.46	−6.35	6.37	274
W_M	95.02	0.69	−9.48	9.51	274
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272





Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.071 — u^*_e = *r00j* *LAB*cmyn'**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r00j* u^*_d = *m81o*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



FRS12_95a; CIELAB data

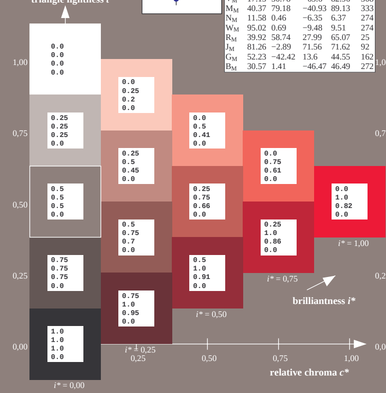
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	38.06	60.53	36.66	70.77	31
Y_M	86.77	−4.5	100.15	100.25	93
L_M	47.13	−62.11	40.56	74.18	147
C_M	55.66	−28.56	−39.99	49.14	234
V_M	17.15	50.78	−65.6	82.96	308
M_M	40.37	79.18	−40.93	89.13	333
N_M	11.58	0.46	−6.35	6.37	274
W_M	95.02	0.69	−9.48	9.51	274
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

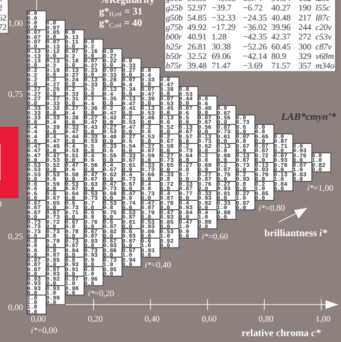
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 38 63 30
$LAB^*LCH^*_{Ma}$: 38 70 25
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.0
$lab^*olv^*_{Ma}$: 1.0 0.0 0.18
triangle lightness *t**

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

FRS12_95a; adapted (a) CIELAB data

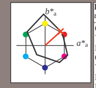
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o





Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.117 — u^*_e = *r25j* *LAB*cmyn'**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r25j* u^*_d = *o10y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



FRS12_95a; CIELAB data

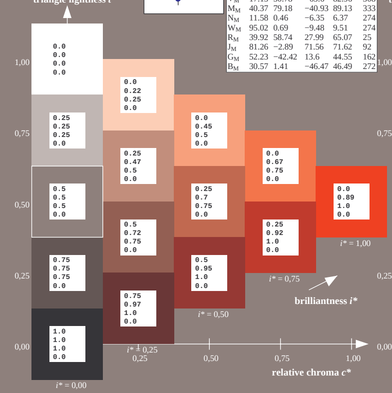
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	38.06	60.53	36.66	70.77	31
Y_M	86.77	−4.5	100.15	100.25	93
L_M	47.13	−62.11	40.56	74.18	147
C_M	55.66	−28.56	−39.99	49.14	234
V_M	17.15	50.78	−65.6	82.96	308
M_M	40.37	79.18	−40.93	89.13	333
N_M	11.58	0.46	−6.35	6.37	274
W_M	95.02	0.69	−9.48	9.51	274
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

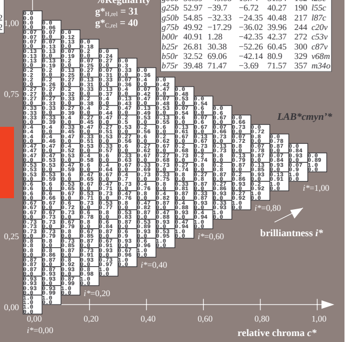
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 42 55 49
$LAB^*LCH^*_{Ma}$: 42 74 42
$lab^*rgb^*_{Ma}$: 1.0 0.25 0.0
$lab^*olv^*_{Ma}$: 1.0 0.11 0.0
triangle lightness *t**

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

FRS12_95a; adapted (a) CIELAB data

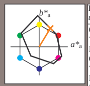
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o





Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.164 — u^*_e = *r50j* *LAB*cmyn'**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r50j* u^*_d = *o40y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



FRS12_95a; CIELAB data

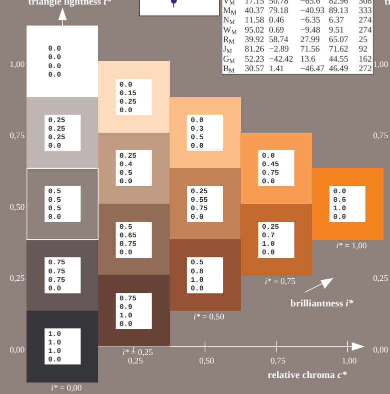
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	38.06	60.53	36.66	70.77	31
Y_M	86.77	−4.5	100.15	100.25	93
L_M	47.13	−62.11	40.56	74.18	147
C_M	55.66	−28.56	−39.99	49.14	234
V_M	17.15	50.78	−65.6	82.96	308
M_M	40.37	79.18	−40.93	89.13	333
N_M	11.58	0.46	−6.35	6.37	274
W_M	95.02	0.69	−9.48	9.51	274
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

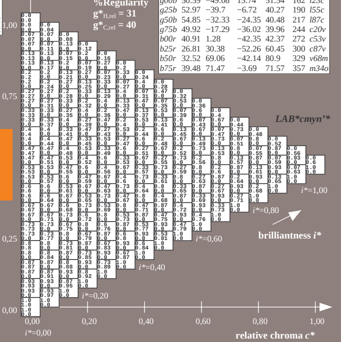
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 54 39 65
$LAB^*LCH^*_{Ma}$: 54 76 58
$lab^*rgb^*_{Ma}$: 1.0 0.5 0.0
$lab^*olv^*_{Ma}$: 1.0 0.4 0.0
triangle lightness *t**

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

FRS12_95a; adapted (a) CIELAB data

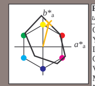
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o





Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.21 — u^*_e = *r75j* *LAB*cmyn'**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r75j* u^*_d = *o69y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



FRS12_95a; CIELAB data

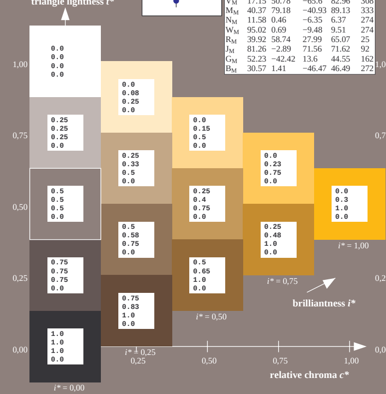
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	38.06	60.53	36.66	70.77	31
Y_M	86.77	−4.5	100.15	100.25	93
L_M	47.13	−62.11	40.56	74.18	147
C_M	55.66	−28.56	−39.99	49.14	234
V_M	17.15	50.78	−65.6	82.96	308
M_M	40.37	79.18	−40.93	89.13	333
N_M	11.58	0.46	−6.35	6.37	274
W_M	95.02	0.69	−9.48	9.51	274
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

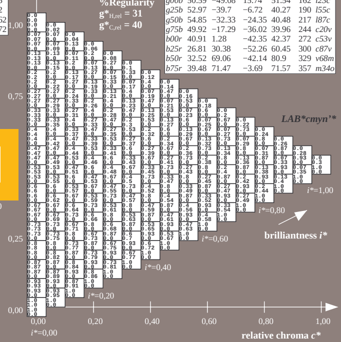
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 67 21 83
$LAB^*LCH^*_{Ma}$: 67 86 75
$lab^*rgb^*_{Ma}$: 1.0 0.75 0.0
$lab^*olv^*_{Ma}$: 1.0 0.7 0.0
triangle lightness *t**

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

FRS12_95a; adapted (a) CIELAB data

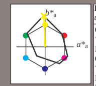
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o





Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.256 — u^*_e = *j00g* *LAB*cmyn'**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j00g* u^*_d = *o98y*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



FRS12_95a; CIELAB data

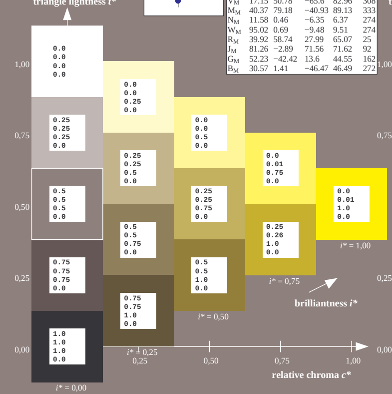
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	38.06	60.53	36.66	70.77	31
Y_M	86.77	−4.5	100.15	100.25	93
L_M	47.13	−62.11	40.56	74.18	147
C_M	55.66	−28.56	−39.99	49.14	234
V_M	17.15	50.78	−65.6	82.96	308
M_M	40.37	79.18	−40.93	89.13	333
N_M	11.58	0.46	−6.35	6.37	274
W_M	95.02	0.69	−9.48	9.51	274
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

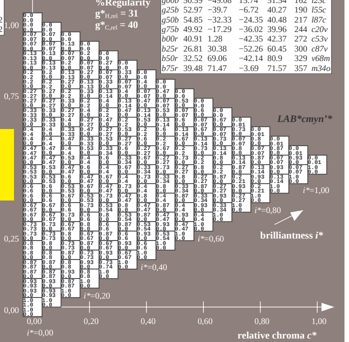
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 86 −4 109
$LAB^*LCH^*_{Ma}$: 86 109 92
$lab^*rgb^*_{Ma}$: 1.0 1.0 0.0
$lab^*olv^*_{Ma}$: 1.0 0.99 0.0
triangle lightness *t**

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

FRS12_95a; adapted (a) CIELAB data

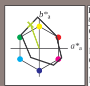
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o





Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.305 — u^*_e = *j25g* *LAB*cmyn'**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j25g* u^*_d = *y34l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



FRS12_95a; CIELAB data

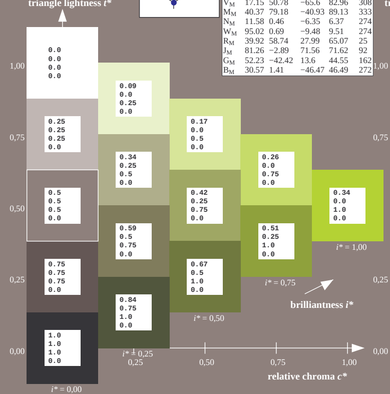
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	38.06	60.53	36.66	70.77	31
Y_M	86.77	−4.5	100.15	100.25	93
L_M	47.13	−62.11	40.56	74.18	147
C_M	55.66	−28.56	−39.99	49.14	234
V_M	17.15	50.78	−65.6	82.96	308
M_M	40.37	79.18	−40.93	89.13	333
N_M	11.58	0.46	−6.35	6.37	274
W_M	95.02	0.69	−9.48	9.51	274
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

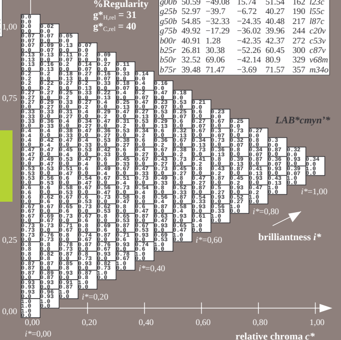
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 70 −30 83
$LAB^*LCH^*_{Ma}$: 70 88 109
$lab^*rgb^*_{Ma}$: 0.75 1.0 0.0
$lab^*olv^*_{Ma}$: 0.66 1.0 0.0
triangle lightness *t**

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

FRS12_95a; adapted (a) CIELAB data

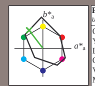
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o





Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.354 — u^*_e = *j50g* *LAB*cmyn'**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j50g* u^*_d = *y69l*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**



FRS12_95a; CIELAB data

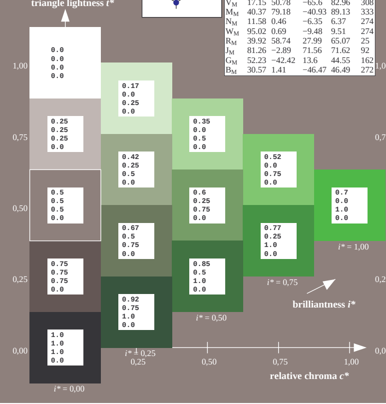
u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	38.06	60.53	36.66	70.77	31
Y_M	86.77	−4.5	100.15	100.25	93
L_M	47.13	−62.11	40.56	74.18	147
C_M	55.66	−28.56	−39.99	49.14	234
V_M	17.15	50.78	−65.6	82.96	308
M_M	40.37	79.18	−40.93	89.13	333
N_M	11.58	0.46	−6.35	6.37	274
W_M	95.02	0.69	−9.48	9.51	274
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

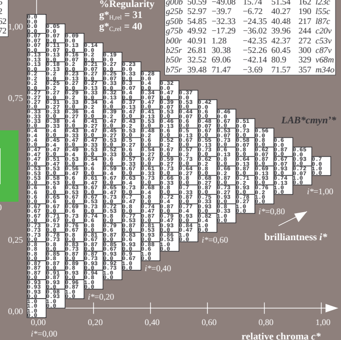
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 57 −48 63
$LAB^*LCH^*_{Ma}$: 57 80 127
$lab^*rgb^*_{Ma}$: 0.5 1.0 0.0
$lab^*olv^*_{Ma}$: 0.3 1.0 0.0
triangle lightness *t**

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

FRS12_95a; adapted (a) CIELAB data

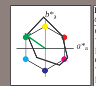
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
b25r	26.81	30.38	−52.26	60.45	300	c87v
b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o





Input and output: Colorimetric Printer Reflective System FRS12_95, L*=12_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.402 — u^*_e = *j75g* *LAB*cmyn'**

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j75g* u^*_d = *l03c*
contrast reduction factor:
c_R = 1.0
triangle lightness *t**

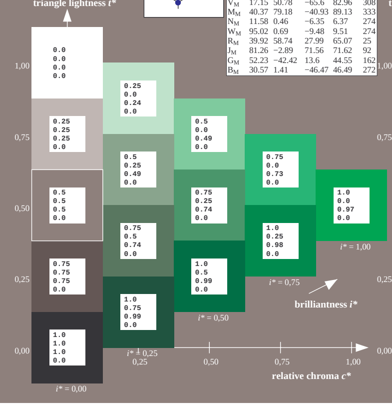
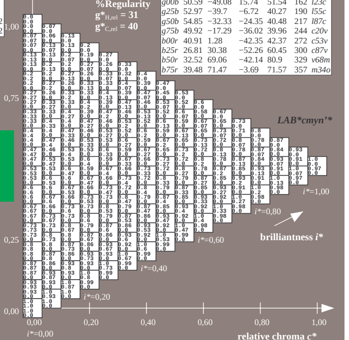


FRS12_95a; CIELAB data

u^*_e	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	38.06	60.53	36.66	70.77	31
Y_M	86.77	−4.5	100.15	100.25	93
L_M	47.13	−62.11	40.56	74.18	147
C_M	55.66	−28.56	−39.99	49.14	234
V_M	17.15	50.78	−65.6	82.96	308
M_M	40.37	79.18	−40.93	89.13	333
N_M	11.58	0.46	−6.35	6.37	274
W_M	95.02	0.69	−9.48	9.51	274
R_M	39.92	58.74	27.99	65.07	25
J_M	81.26	−2.89	71.56	71.62	92
G_M	52.23	−42.42	13.6	44.55	162
B_M	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 48 −60 43
$LAB^*LCH^*_{Ma}$: 48 74 144
$lab^*rgb^*_{Ma}$: 0.25 1.0 0.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.03
triangle lightness *t**

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

FRS12_95a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	38.47	63.32	30.17	70.15	25	m81o
r25j	42.12	54.56	49.45	73.64	42	o10y
r50j	53.64	39.15	64.89	75.79	59	o40y
r75j	67.01	21.26	82.83	85.52	76	o69y
j00g	86.18	−4.38	108.53	108.62	92	o98y
j25g	69.73	−29.89	83.06	88.28	110	y34l
j50g	57.03	−48.31	63.49	79.78	127	y69l
j75g	47.73	−60.33	42.64	73.88	145	l03c
g00b	50.59	−49.08	15.74	51.54	162	l23c
g25b	52.97	−39.7	−6.72	40.27	190	l55c
g50b	54.85	−32.33	−24.35	40.48	217	l87c
g75b	49.92	−17.29	−36.02	39.96	244	c20v
b00r	40.91	1.28	−42.35	42.37	272	c53v
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b50r	32.52	69.06	−42.14	80.9	329	v68m
b75r	39.48	71.47	−3.69	71.57	357	m34o