Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.451$ $u^*_c = g00b$

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

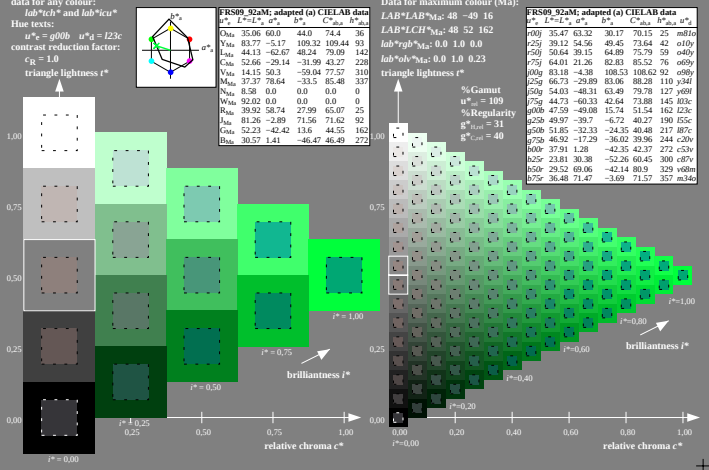
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 48 −49 16
$LAB^*LCH^*_{Ma}$: 48 52 162
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.23
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

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

	L^*	L^{*}_{a}	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00	35.47	63.32	30.17	70.15	25	m81c	
r25j	39.12	54.56	49.45	73.64	42	o10y	
r50j	50.64	39.15	64.89	75.79	59	o40y	
r75j	64.01	21.26	82.83	85.52	76	o60y	
j00g	83.18	−4.38	108.53	108.62	92	o98y	
j25g	66.73	−29.89	83.06	88.28	110	y34l	
j50g	54.03	−48.31	63.49	79.78	127	y69l	
j75g	44.73	−60.33	42.64	73.88	145	l03c	
g00b	47.59	−49.08	15.74	51.54	162	l23c	
g25b	49.97	−39.7	−6.72	40.27	190	l55c	
g50b	51.85	−32.33	−24.35	40.48	217	l87c	
g75b	46.92	−17.29	−36.02	39.96	244	c20v	
b00r	37.91	1.28	−42.35	42.37	272	c53v	
b25r	23.81	30.38	−52.26	60.45	300	c87v	
b50r	29.52	69.06	−42.14	80.9	329	v68m	
b75r	36.48	71.47	−3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.527$ $u^*_c = g25b$

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

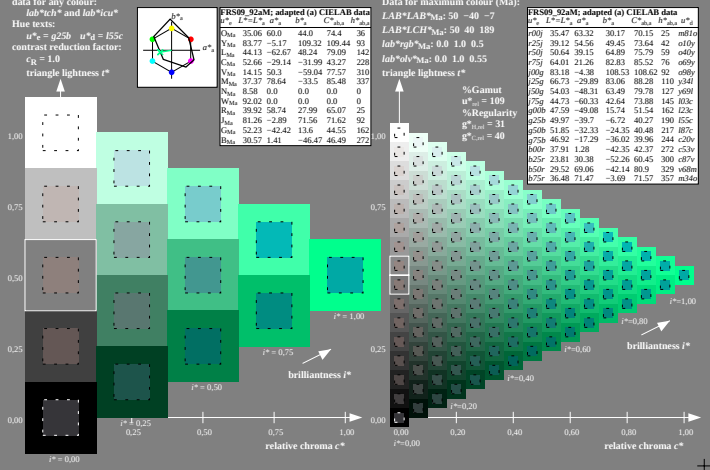
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 50 −40 −7
$LAB^*LCH^*_{Ma}$: 50 40 189
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.5
$lab^*olv^*_{Ma}$: 0.0 1.0 0.55
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

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

	L^*	L^{*}_{a}	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00	35.47	63.32	30.17	70.15	25	m81c	
r25j	39.12	54.56	49.45	73.64	42	o10y	
r50j	50.64	39.15	64.89	75.79	59	o40y	
r75j	64.01	21.26	82.83	85.52	76	o60y	
j00g	83.18	−4.38	108.53	108.62	92	o98y	
j25g	66.73	−29.89	83.06	88.28	110	y34l	
j50g	54.03	−48.31	63.49	79.78	127	y69l	
j75g	44.73	−60.33	42.64	73.88	145	l03c	
g00b	47.59	−49.08	15.74	51.54	162	l23c	
g25b	49.97	−39.7	−6.72	40.27	190	l55c	
g50b	51.85	−32.33	−24.35	40.48	217	l87c	
g75b	46.92	−17.29	−36.02	39.96	244	c20v	
b00r	37.91	1.28	−42.35	42.37	272	c53v	
b25r	23.81	30.38	−52.26	60.45	300	c87v	
b50r	29.52	69.06	−42.14	80.9	329	v68m	
b75r	36.48	71.47	−3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.603$ $u^*_c = g50b$

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

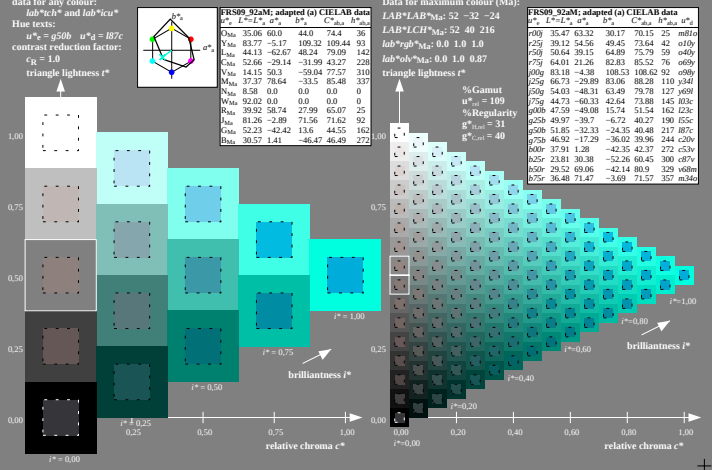
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 52 −32 −24
$LAB^*LCH^*_{Ma}$: 52 40 216
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.87
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

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

	L^*	L^{*}_{a}	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00	35.47	63.32	30.17	70.15	25	m81c	
r25j	39.12	54.56	49.45	73.64	42	o10y	
r50j	50.64	39.15	64.89	75.79	59	o40y	
r75j	64.01	21.26	82.83	85.52	76	o60y	
j00g	83.18	−4.38	108.53	108.62	92	o98y	
j25g	66.73	−29.89	83.06	88.28	110	y34l	
j50g	54.03	−48.31	63.49	79.78	127	y69l	
j75g	44.73	−60.33	42.64	73.88	145	l03c	
g00b	47.59	−49.08	15.74	51.54	162	l23c	
g25b	49.97	−39.7	−6.72	40.27	190	l55c	
g50b	51.85	−32.33	−24.35	40.48	217	l87c	
g75b	46.92	−17.29	−36.02	39.96	244	c20v	
b00r	37.91	1.28	−42.35	42.37	272	c53v	
b25r	23.81	30.38	−52.26	60.45	300	c87v	
b50r	29.52	69.06	−42.14	80.9	329	v68m	
b75r	36.48	71.47	−3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.679$ $u^*_c = g75b$

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

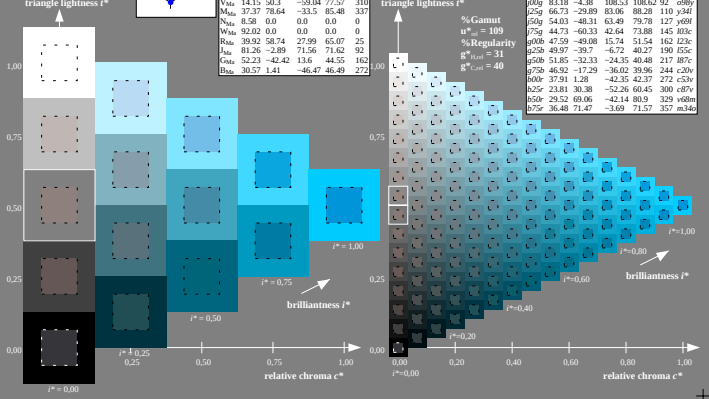
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 47 −17 −36
$LAB^*LCH^*_{Ma}$: 47 40 244
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
$lab^*olv^*_{Ma}$: 0.0 0.8 1.0
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

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

	L^*	L^{*}_{a}	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00	35.47	63.32	30.17	70.15	25	m81c	
r25j	39.12	54.56	49.45	73.64	42	o10y	
r50j	50.64	39.15	64.89	75.79	59	o40y	
r75j	64.01	21.26	82.83	85.52	76	o60y	
j00g	83.18	−4.38	108.53	108.62	92	o98y	
j25g	66.73	−29.89	83.06	88.28	110	y34l	
j50g	54.03	−48.31	63.49	79.78	127	y69l	
j75g	44.73	−60.33	42.64	73.88	145	l03c	
g00b	47.59	−49.08	15.74	51.54	162	l23c	
g25b	49.97	−39.7	−6.72	40.27	190	l55c	
g50b	51.85	−32.33	−24.35	40.48	217	l87c	
g75b	46.92	−17.29	−36.02	39.96	244	c20v	
b00r	37.91	1.28	−42.35	42.37	272	c53v	
b25r	23.81	30.38	−52.26	60.45	300	c87v	
b50r	29.52	69.06	−42.14	80.9	329	v68m	
b75r	36.48	71.47	−3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.755$ $u^*_c = b00r$

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

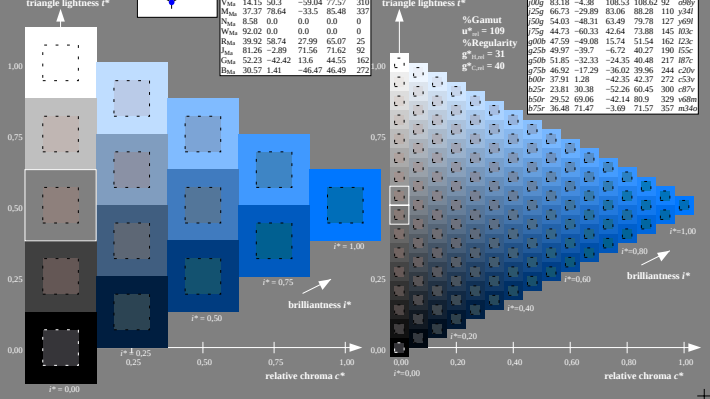
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 38 1 −42
$LAB^*LCH^*_{Ma}$: 38 42 271
$lab^*rgb^*_{Ma}$: 0.0 0.0 1.0
$lab^*olv^*_{Ma}$: 0.0 0.47 1.0
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

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

	L^*	L^{*}_{a}	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00	35.47	63.32	30.17	70.15	25	m81c	
r25j	39.12	54.56	49.45	73.64	42	o10y	
r50j	50.64	39.15	64.89	75.79	59	o40y	
r75j	64.01	21.26	82.83	85.52	76	o60y	
j00g	83.18	−4.38	108.53	108.62	92	o98y	
j25g	66.73	−29.89	83.06	88.28	110	y34l	
j50g	54.03	−48.31	63.49	79.78	127	y69l	
j75g	44.73	−60.33	42.64	73.88	145	l03c	
g00b	47.59	−49.08	15.74	51.54	162	l23c	
g25b	49.97	−39.7	−6.72	40.27	190	l55c	
g50b	51.85	−32.33	−24.35	40.48	217	l87c	
g75b	46.92	−17.29	−36.02	39.96	244	c20v	
b00r	37.91	1.28	−42.35	42.37	272	c53v	
b25r	23.81	30.38	−52.26	60.45	300	c87v	
b50r	29.52	69.06	−42.14	80.9	329	v68m	
b75r	36.48	71.47	−3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.834$ $u^*_c = b25r$

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

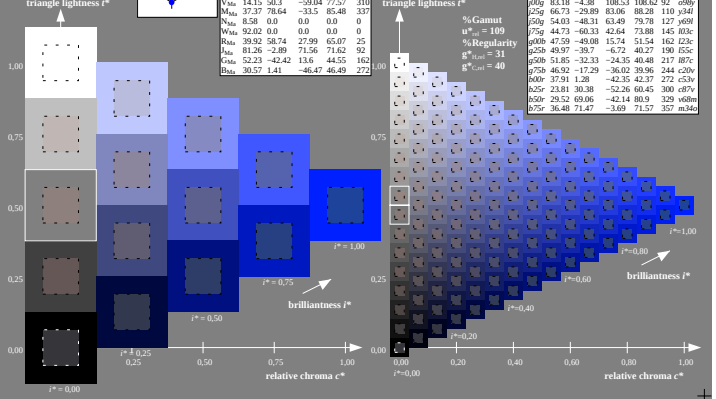
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 24 30 −52
$LAB^*LCH^*_{Ma}$: 24 60 300
$lab^*rgb^*_{Ma}$: 0.5 0.0 1.0
$lab^*olv^*_{Ma}$: 0.0 0.12 1.0
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

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

	L^*	L^{*}_{a}	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00	35.47	63.32	30.17	70.15	25	m81c	
r25j	39.12	54.56	49.45	73.64	42	o10y	
r50j	50.64	39.15	64.89	75.79	59	o40y	
r75j	64.01	21.26	82.83	85.52	76	o60y	
j00g	83.18	−4.38	108.53	108.62	92	o98y	
j25g	66.73	−29.89	83.06	88.28	110	y34l	
j50g	54.03	−48.31	63.49	79.78	127	y69l	
j75g	44.73	−60.33	42.64	73.88	145	l03c	
g00b	47.59	−49.08	15.74	51.54	162	l23c	
g25b	49.97	−39.7	−6.72	40.27	190	l55c	
g50b	51.85	−32.33	−24.35	40.48	217	l87c	
g75b	46.92	−17.29	−36.02	39.96	244	c20v	
b00r	37.91	1.28	−42.35	42.37	272	c53v	
b25r	23.81	30.38	−52.26	60.45	300	c87v	
b50r	29.52	69.06	−42.14	80.9	329	v68m	
b75r	36.48	71.47	−3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.913$ $u^*_c = b50r$

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

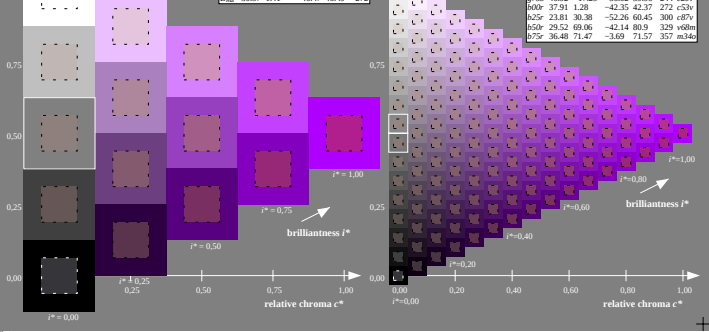
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 30 69 −42
$LAB^*LCH^*_{Ma}$: 30 81 328
$lab^*rgb^*_{Ma}$: 1.0 0.0 1.0
$lab^*olv^*_{Ma}$: 0.69 0.0 1.0
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

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

	L^*	L^{*}_{a}	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00	35.47	63.32	30.17	70.15	25	m81c	
r25j	39.12	54.56	49.45	73.64	42	o10y	
r50j	50.64	39.15	64.89	75.79	59	o40y	
r75j	64.01	21.26	82.83	85.52	76	o60y	
j00g	83.18	−4.38	108.53	108.62	92	o98y	
j25g	66.73	−29.89	83.06	88.28	110	y34l	
j50g	54.03	−48.31	63.49	79.78	127	y69l	
j75g	44.73	−60.33	42.64	73.88	145	l03c	
g00b	47.59	−49.08	15.74	51.54	162	l23c	
g25b	49.97	−39.7	−6.72	40.27	190	l55c	
g50b	51.85	−32.33	−24.35	40.48	217	l87c	
g75b	46.92	−17.29	−36.02	39.96	244	c20v	
b00r	37.91	1.28	−42.35	42.37	272	c53v	
b25r	23.81	30.38	−52.26	60.45	300	c87v	
b50r	29.52	69.06	−42.14	80.9	329	v68m	
b75r	36.48	71.47	−3.69	71.57	357	m34o	



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.992$ $u^*_c = b75r$

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

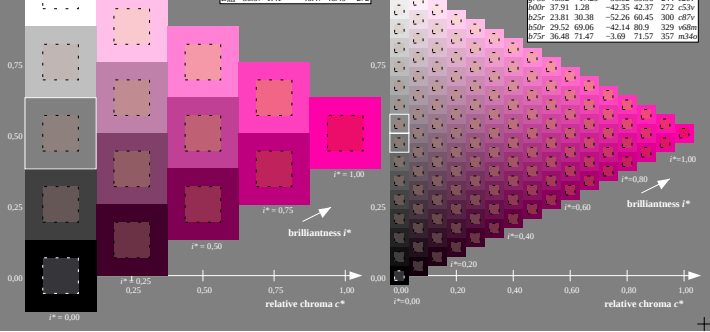
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 36 71 −4
$LAB^*LCH^*_{Ma}$: 36 72 357
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.5
$lab^*olv^*_{Ma}$: 1.0 0.0 0.66
triangle lightness t^*

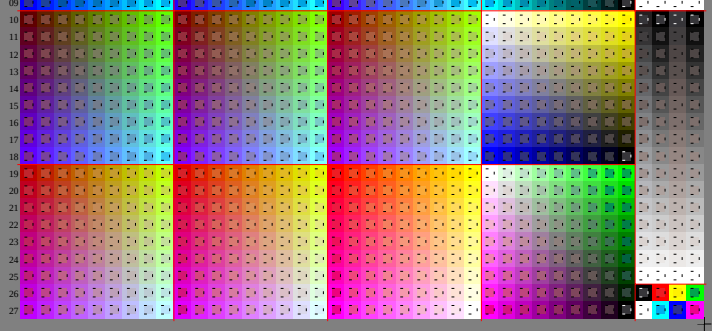
%Gamut $u^*_{gm} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

FRS09_92aM; adapted (a) CIELAB data

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

	L^*	L^{*}_{a}	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00	35.47	63.32	30.17	70.15	25	m81c	
r25j	39.12	54.56	49.45	73.64	42	o10y	
r50j	50.64	39.15	64.89	75.79	59	o40y	
r75j	64.01	21.26	82.83	85.52	76	o60y	
j00g	83.18	−4.38	108.53	108.62	92	o98y	
j25g	66.73	−29.89	83.06	88.28	110	y34l	
j50g	54.03	−48.31	63.49	79.78	127	y69l	
j75g	44.73	−60.33	42.64	73.88	145	l03c	
g00b	47.59	−49.08	15.74	51.54	162	l23c	
g25b	49.97	−39.7	−6.72	40.27	190	l55c	
g50b	51.85	−32.33	−24.35	40.48	217	l87c	
g75b	46.92	−17.29	−36.02	39.96	244	c20v	
b00r	37.91	1.28	−42.35	42.37	272	c53v	
b25r	23.81	30.38	−52.26	60.45	300	c87v	
b50r	29.52	69.06	−42.14	80.9	329	v68m	
b75r	36.48	71.47	−3.69	71.57	357	m34o	





Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.396$ $u^*_d = g00b$

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

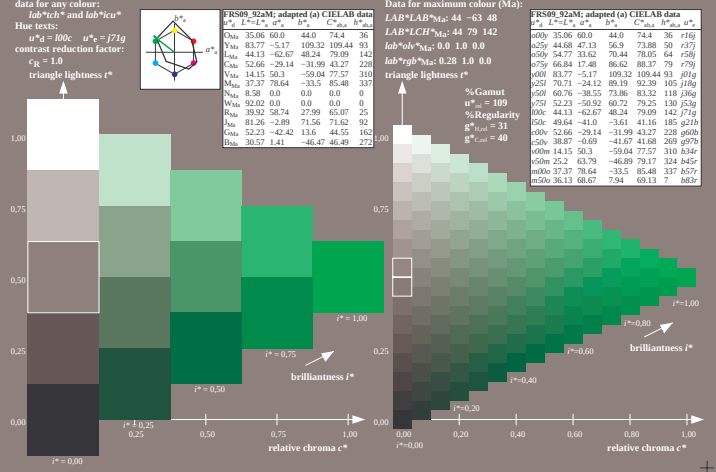
Data for maximum colour (Ma):
$LAB^*L^*a^*_{Ma}$: 44 −63 48
$LAB^*LCH^*_{Ma}$: 44 79 142
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
$lab^*rgb^*_{Ma}$: 0.28 1.0 0.0
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

	L^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
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

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



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.514$ $u^*_d = g25b$

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

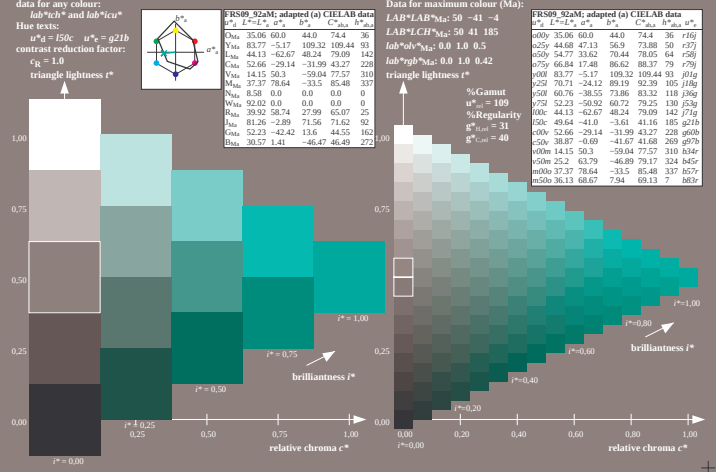
Data for maximum colour (Ma):
$LAB^*L^*a^*_{Ma}$: 50 −41 −4
$LAB^*LCH^*_{Ma}$: 50 41 185
$lab^*olv^*_{Ma}$: 0.0 1.0 0.5
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.42
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

	L^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
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

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



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.632$ $u^*_d = g50b$

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

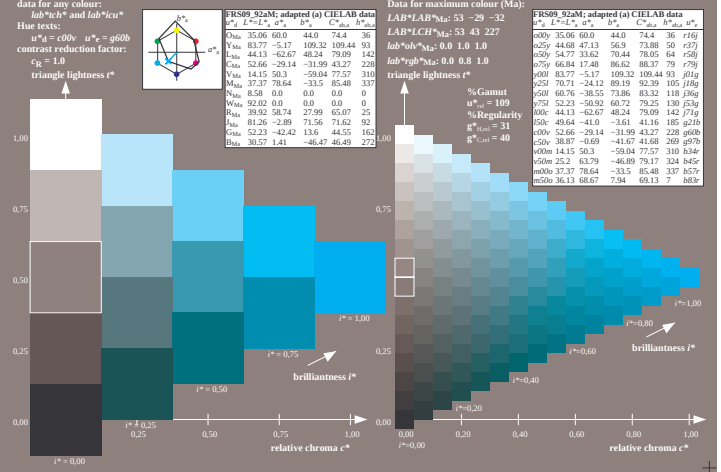
Data for maximum colour (Ma):
$LAB^*L^*a^*_{Ma}$: 53 −29 −32
$LAB^*LCH^*_{Ma}$: 53 43 227
$lab^*olv^*_{Ma}$: 0.0 1.0 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.8 1.0
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

	L^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
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

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



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.747$ $u^*_d = g75b$

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

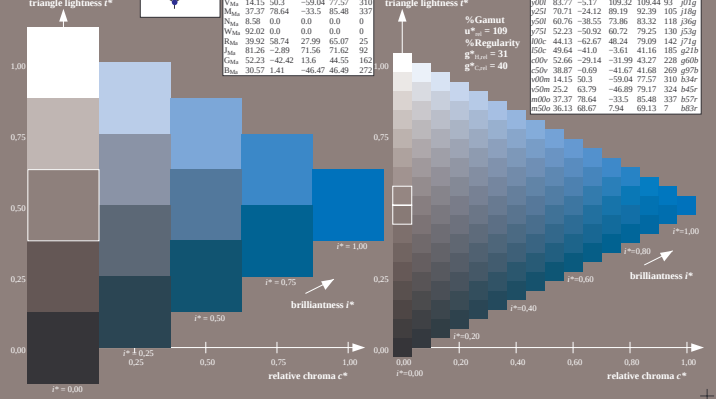
Data for maximum colour (Ma):
$LAB^*L^*a^*_{Ma}$: 39 −1 −42
$LAB^*LCH^*_{Ma}$: 39 42 269
$lab^*olv^*_{Ma}$: 0.0 0.5 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.05 1.0
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

	L^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
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

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



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.862$ $u^*_d = b00r$

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

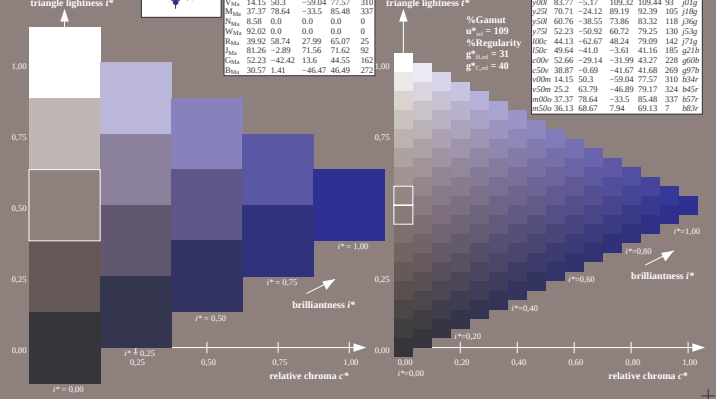
Data for maximum colour (Ma):
$LAB^*L^*a^*_{Ma}$: 14 50 −59
$LAB^*LCH^*_{Ma}$: 14 78 310
$lab^*olv^*_{Ma}$: 0.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.68 0.0 1.0
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

	L^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
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

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



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.899$ $u^*_d = b25r$

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

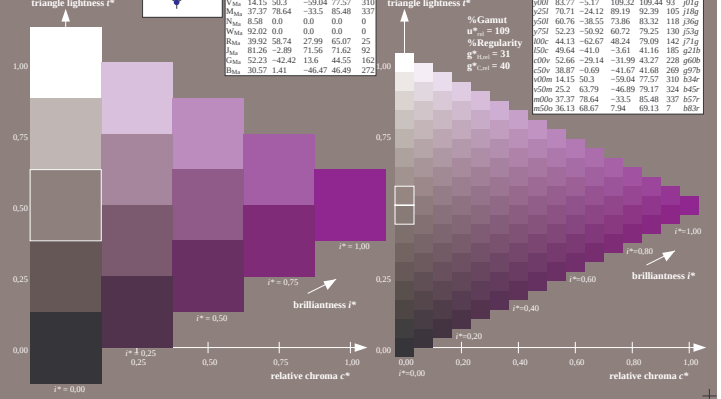
Data for maximum colour (Ma):
$LAB^*L^*a^*_{Ma}$: 25 64 −47
$LAB^*LCH^*_{Ma}$: 25 79 323
$lab^*olv^*_{Ma}$: 0.5 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.91 0.0 1.0
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

	L^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
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

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



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.936$ $u^*_d = b50r$

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

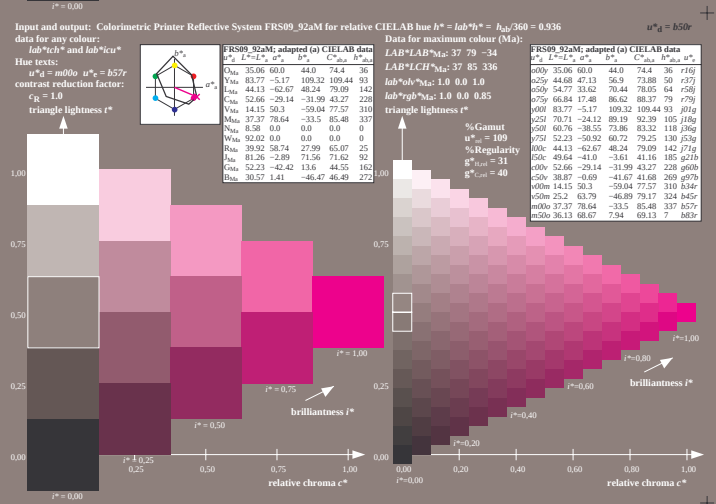
Data for maximum colour (Ma):
$LAB^*L^*a^*_{Ma}$: 37 79 −34
$LAB^*LCH^*_{Ma}$: 37 85 336
$lab^*olv^*_{Ma}$: 1.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.85
triangle lightness t^*

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

FRS09_92aM; adapted (a) CIELAB data

	L^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
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

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



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.018$ $u^*_d = b75r$

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

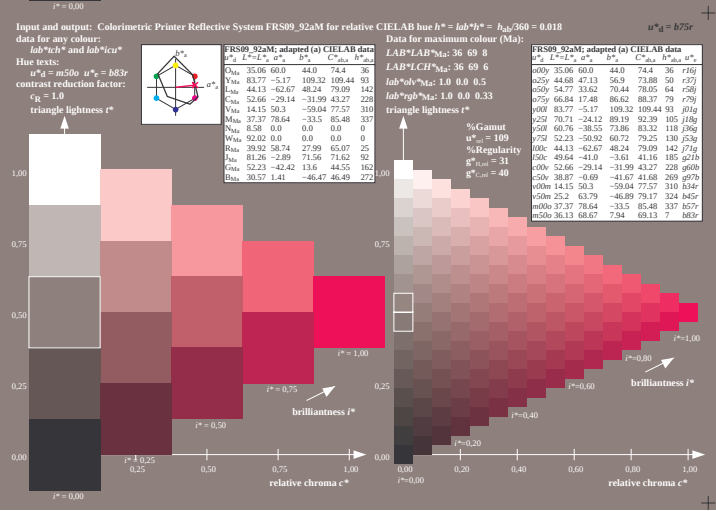
Data for maximum colour (Ma):
$LAB^*L^*a^*_{Ma}$: 36 69 8
$LAB^*LCH^*_{Ma}$: 36 69 6
$lab^*olv^*_{Ma}$: 1.0 0.0 0.5
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.33
triangle lightness t^*

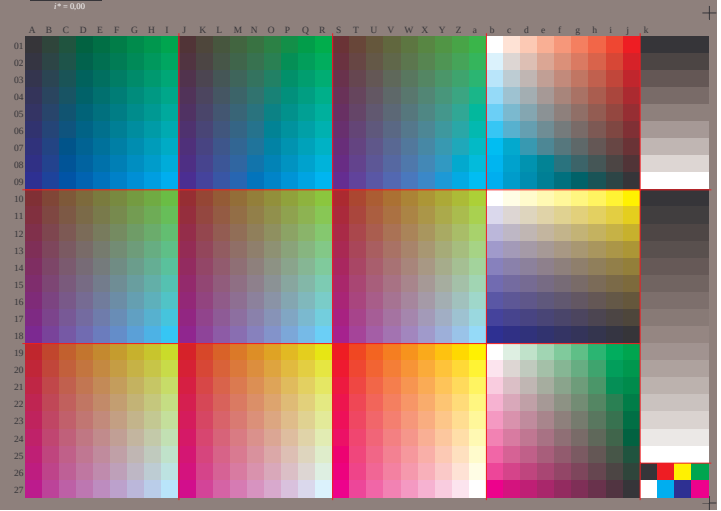
%Gamut $u^*_{eu} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$

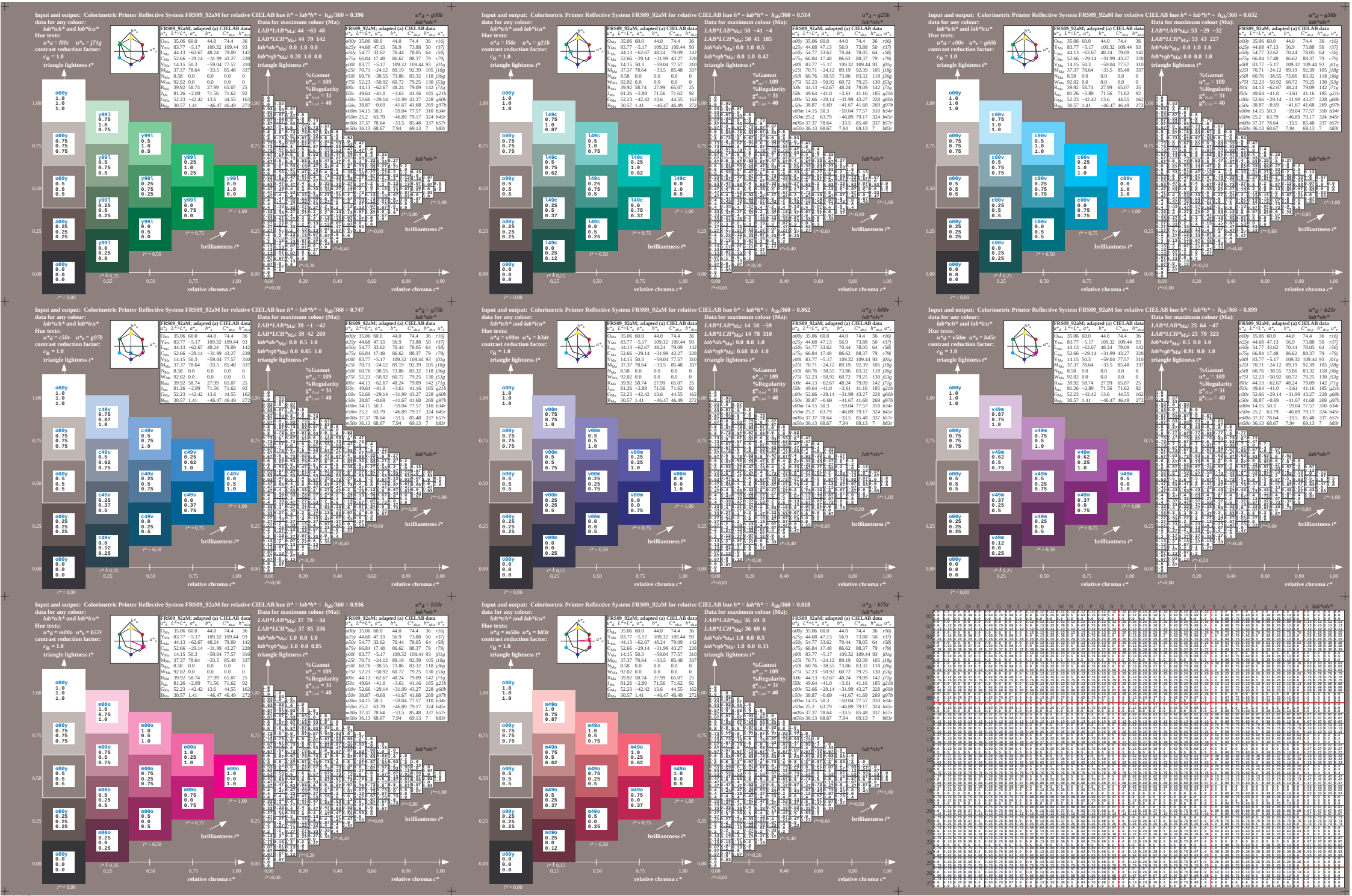
FRS09_92aM; adapted (a) CIELAB data

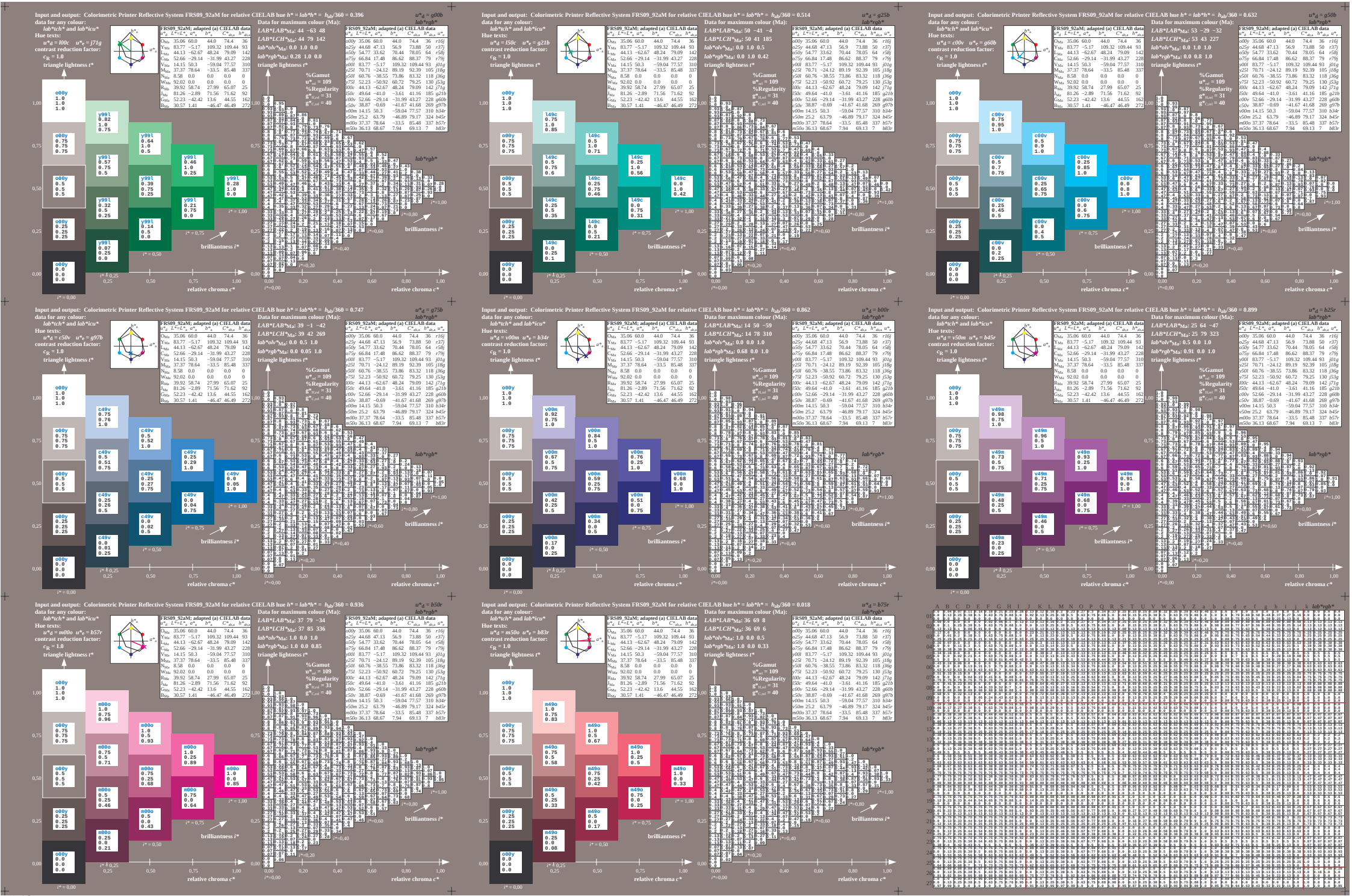
	L^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
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

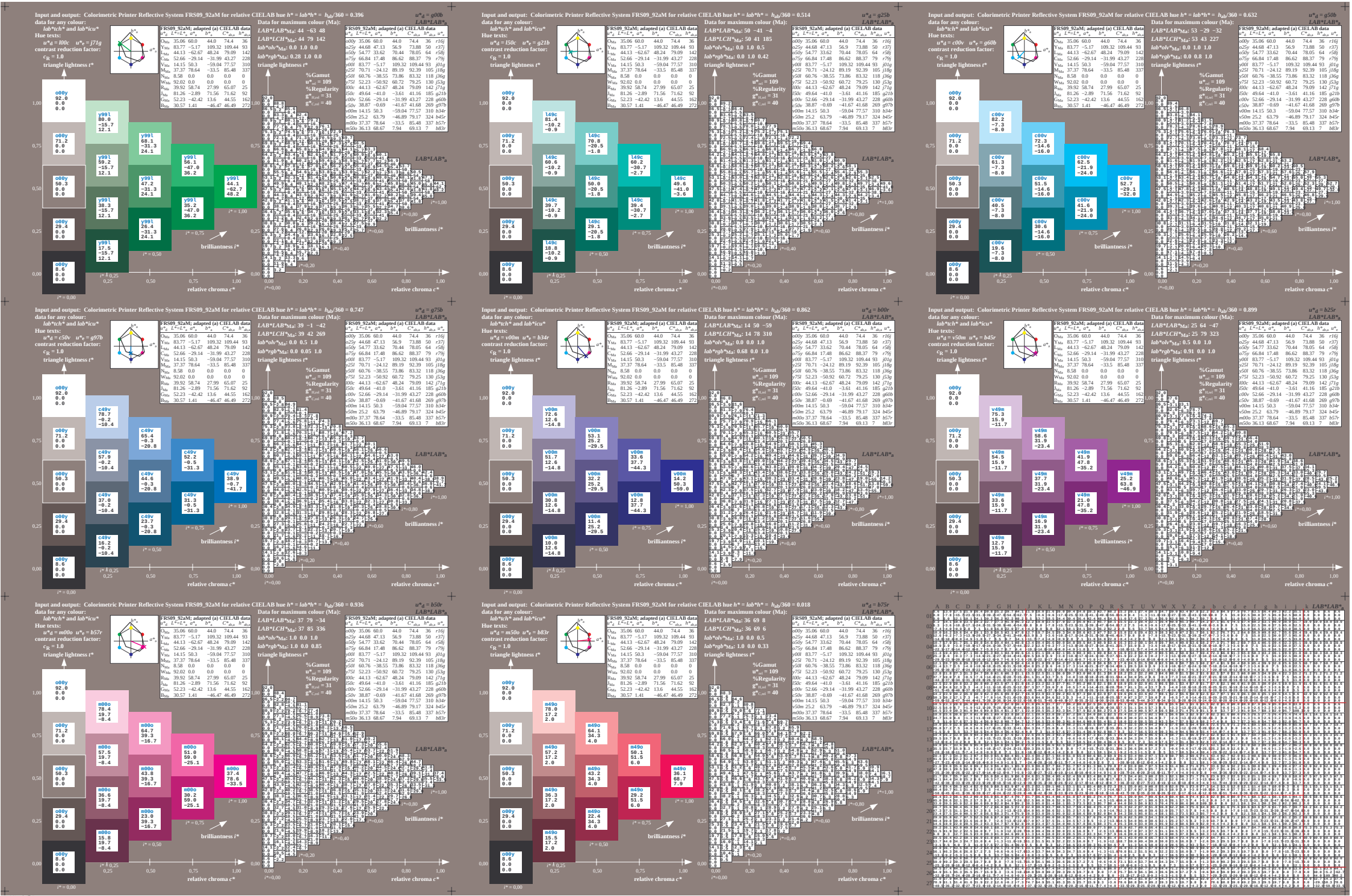
	L^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_e
o00y	35.06	60.0	44.0	74.4	36	r16j
o25y	44.68	47.13	56.9	73.88	50	r37j
o50y	54.77	33.62	70.44	78.05	64	r58j
o75y	66.84	17.48	86.62	88.37	79	r79j
y00l	83.77	−5.17	109.32	109.44	93	j01g
y25l	70.71	−24.12	89.19	92.39	105	j18g
y50l	60.76	−38.55	73.86	83.32	118	j36g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

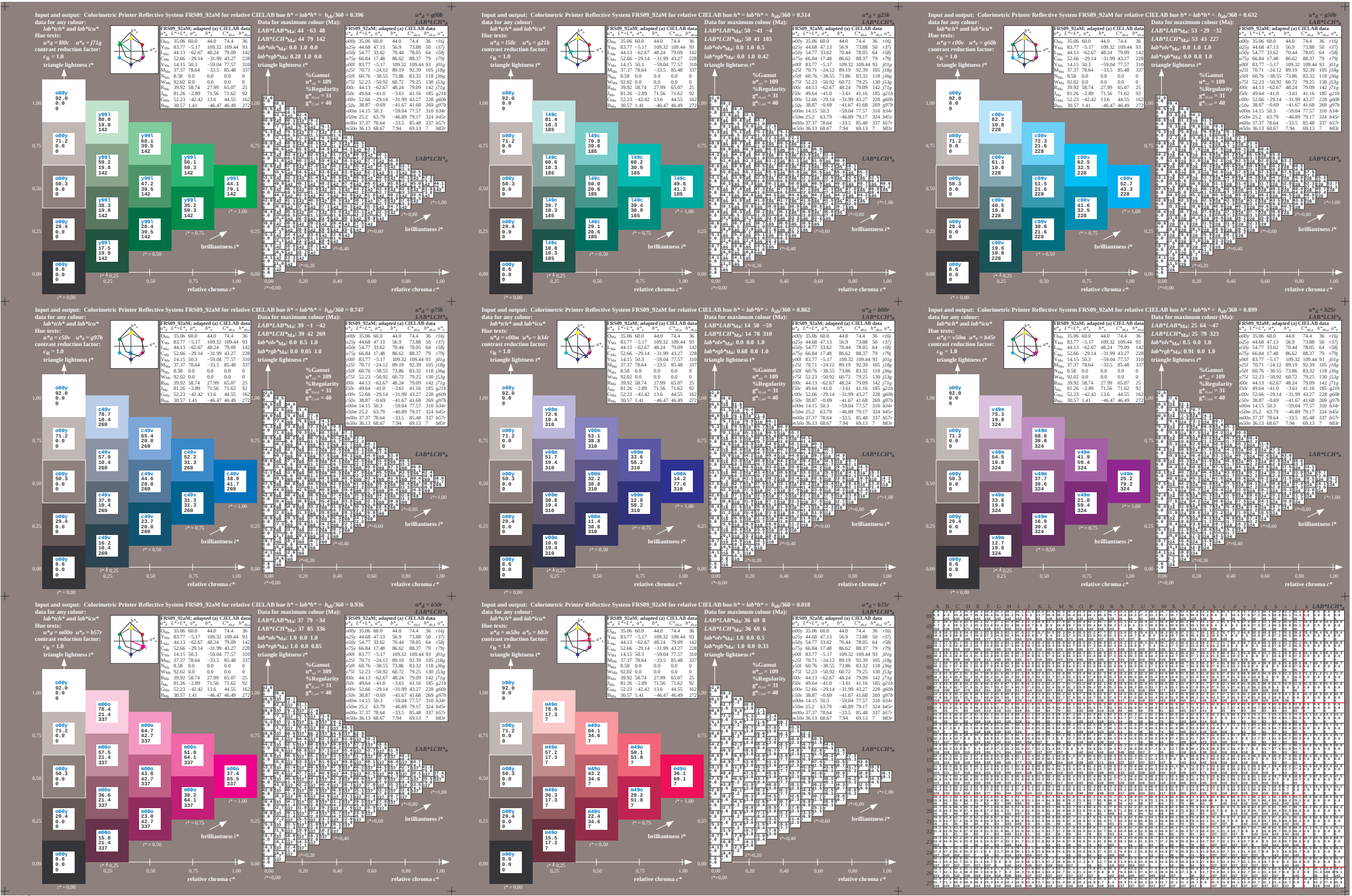




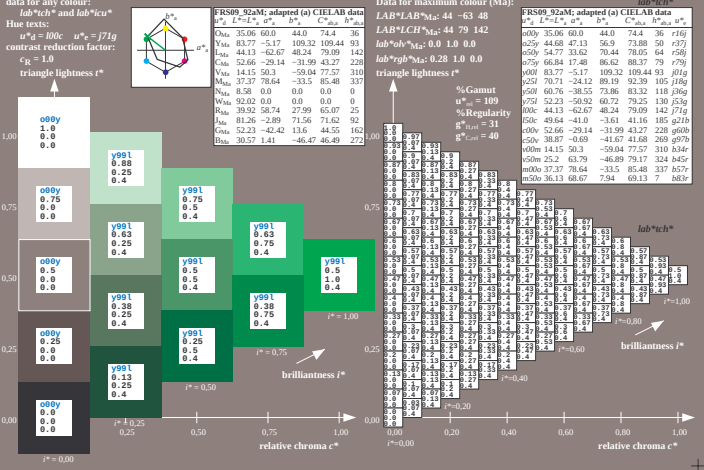

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.396
u*d = g00b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l00c u*e = j71g
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 44 −63 48
LAB*LCH*Ma: 44 79 142
lab*ob/Ma: 0.0 1.0 0.0
lab*rgb*Ma: 0.28 1.0 0.0
%Gamut
u*_ab = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*olv*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.514
u*d = g25b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l50c u*e = g21b
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 50 −41 −4
LAB*LCH*Ma: 50 41 185
lab*ob/Ma: 0.0 1.0 0.5
lab*rgb*Ma: 0.0 1.0 0.42
%Gamut
u*_ab = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*olv*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.632
u*d = g50b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = c00v u*e = g60b
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 53 −29 −32
LAB*LCH*Ma: 53 43 227
lab*ob/Ma: 0.0 1.0 1.0
lab*rgb*Ma: 0.0 0.8 1.0
%Gamut
u*_ab = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*olv*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.747
u*d = g75b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = c50v u*e = g97b
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 39 −1 −42
LAB*LCH*Ma: 39 42 269
lab*ob/Ma: 0.0 0.5 1.0
lab*rgb*Ma: 0.0 0.05 1.0
%Gamut
u*_ab = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*olv*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.862
u*d = b00r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = v00m u*e = b34r
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 14 50 −59
LAB*LCH*Ma: 14 78 310
lab*ob/Ma: 0.0 0.0 1.0
lab*rgb*Ma: 0.68 0.0 1.0
%Gamut
u*_ab = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*olv*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.899
u*d = b25r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = v50m u*e = b45r
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 25 64 −47
LAB*LCH*Ma: 25 79 323
lab*ob/Ma: 0.5 0.0 1.0
lab*rgb*Ma: 0.91 0.0 1.0
%Gamut
u*_ab = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*olv*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.936
u*d = b50r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = m00o u*e = b57r
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 37 79 −34
LAB*LCH*Ma: 37 85 336
lab*ob/Ma: 1.0 0.0 1.0
lab*rgb*Ma: 1.0 0.0 0.85
%Gamut
u*_ab = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*olv*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.018
u*d = b75r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = m50o u*e = b83r
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 36 69 8
LAB*LCH*Ma: 36 69 6
lab*ob/Ma: 1.0 0.0 0.5
lab*rgb*Ma: 1.0 0.0 0.33
%Gamut
u*_ab = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*olv*
brilliantness i*
relative chroma c*


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.396
u*d = g00b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l00c u*e = j71g
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 44 −63 48
LAB*LCH*Ma: 44 79 142
lab*ob*Ma: 0.0 1.0 0.0
lab*rgb*Ma: 0.28 1.0 0.0
%Gamut
u*= 109
%Regularity
g*H,rel = 31
g*C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*rgb*
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.514
u*d = g25b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l50c u*e = g21b
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 50 −41 −4
LAB*LCH*Ma: 50 41 185
lab*ob*Ma: 0.0 1.0 0.5
lab*rgb*Ma: 0.0 1.0 0.42
%Gamut
u*= 109
%Regularity
g*H,rel = 31
g*C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*rgb*
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.632
u*d = g50b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = c00v u*e = g60b
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 53 −29 −32
LAB*LCH*Ma: 53 43 227
lab*ob*Ma: 0.0 1.0 1.0
lab*rgb*Ma: 0.0 0.8 1.0
%Gamut
u*= 109
%Regularity
g*H,rel = 31
g*C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*rgb*
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.747
u*d = g75b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = c50v u*e = g97b
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 39 −1 −42
LAB*LCH*Ma: 39 42 269
lab*ob*Ma: 0.0 0.5 1.0
lab*rgb*Ma: 0.0 0.05 1.0
%Gamut
u*= 109
%Regularity
g*H,rel = 31
g*C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*rgb*
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.862
u*d = b00r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = v00m u*e = b34r
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 14 50 −59
LAB*LCH*Ma: 14 78 310
lab*ob*Ma: 0.0 0.0 1.0
lab*rgb*Ma: 0.68 0.0 1.0
%Gamut
u*= 109
%Regularity
g*H,rel = 31
g*C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*rgb*
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.899
u*d = b25r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = v50m u*e = b45r
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 25 64 −47
LAB*LCH*Ma: 25 79 323
lab*ob*Ma: 0.5 0.0 1.0
lab*rgb*Ma: 0.91 0.0 1.0
%Gamut
u*= 109
%Regularity
g*H,rel = 31
g*C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*rgb*
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.936
u*d = b50r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = m00o u*e = b57r
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 37 79 −34
LAB*LCH*Ma: 37 85 336
lab*ob*Ma: 1.0 0.0 1.0
lab*rgb*Ma: 1.0 0.0 0.85
%Gamut
u*= 109
%Regularity
g*H,rel = 31
g*C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*rgb*
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.018
u*d = b75r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = m50o u*e = b83r
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 36 69 8
LAB*LCH*Ma: 36 69 6
lab*ob*Ma: 1.0 0.0 0.5
lab*rgb*Ma: 1.0 0.0 0.33
%Gamut
u*= 109
%Regularity
g*H,rel = 31
g*C,rel = 40
FRS09_92aM; adapted a) CIELAB data
lab*rgb*
brilliantness j*
relative chroma c*


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.396
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l00c u*e = j71g
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 44 −63 48
LAB*LCH*Ma: 44 79 142
lab*olv*Ma: 0.0 1.0 0.0
lab*rgb*Ma: 0.28 1.0 0.0
u*d = g00b
LAB*LAB*n
FRS09_92aM; adapted (a) CIELAB data
%Gamut
u*cp = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.514
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l50c u*e = g21b
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 50 −41 −4
LAB*LCH*Ma: 50 41 185
lab*olv*Ma: 0.0 1.0 0.5
lab*rgb*Ma: 0.0 1.0 0.42
u*d = g25b
LAB*LAB*n
FRS09_92aM; adapted (a) CIELAB data
%Gamut
u*cp = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.632
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = c00v u*e = g60b
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 53 −29 −32
LAB*LCH*Ma: 53 43 227
lab*olv*Ma: 0.0 1.0 1.0
lab*rgb*Ma: 0.0 0.8 1.0
u*d = g50b
LAB*LAB*n
FRS09_92aM; adapted (a) CIELAB data
%Gamut
u*cp = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.747
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = c50v u*e = g97b
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 39 −1 −42
LAB*LCH*Ma: 39 42 269
lab*olv*Ma: 0.0 0.5 1.0
lab*rgb*Ma: 0.0 0.05 1.0
u*d = g75b
LAB*LAB*n
FRS09_92aM; adapted (a) CIELAB data
%Gamut
u*cp = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.862
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = v00m u*e = b34r
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 14 50 −59
LAB*LCH*Ma: 14 78 310
lab*olv*Ma: 0.0 0.0 1.0
lab*rgb*Ma: 0.68 0.0 1.0
u*d = b00r
LAB*LAB*n
FRS09_92aM; adapted (a) CIELAB data
%Gamut
u*cp = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.899
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = v50m u*e = b45r
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 25 64 −47
LAB*LCH*Ma: 25 79 323
lab*olv*Ma: 0.5 0.0 1.0
lab*rgb*Ma: 0.91 0.0 1.0
u*d = b25r
LAB*LAB*n
FRS09_92aM; adapted (a) CIELAB data
%Gamut
u*cp = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.936
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = m00o u*e = b57r
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 37 79 −34
LAB*LCH*Ma: 37 85 336
lab*olv*Ma: 1.0 0.0 1.0
lab*rgb*Ma: 1.0 0.0 0.85
u*d = b50r
LAB*LAB*n
FRS09_92aM; adapted (a) CIELAB data
%Gamut
u*cp = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.018
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = m50o u*e = b83r
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 36 69 8
LAB*LCH*Ma: 36 69 6
lab*olv*Ma: 1.0 0.0 0.5
lab*rgb*Ma: 1.0 0.0 0.33
u*d = b75r
LAB*LAB*n
FRS09_92aM; adapted (a) CIELAB data
%Gamut
u*cp = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.396
u*d = g00b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l00c u*e = j71g
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 44 −63 48
LAB*LCH*Ma: 44 79 142
lab*olv*Ma: 0.0 1.0 0.0
lab*rgb*Ma: 0.28 1.0 0.0
triangle lightness t*
FRS09_92aM; adapted (a) CIELAB data
%Gamut
u*e = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
LAB*LCH*a
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.514
u*d = g25b
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.632
u*d = g50b
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.747
u*d = g75b
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.862
u*d = b00r
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.899
u*d = b25r
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.936
u*d = b50r
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.018
u*d = b75r

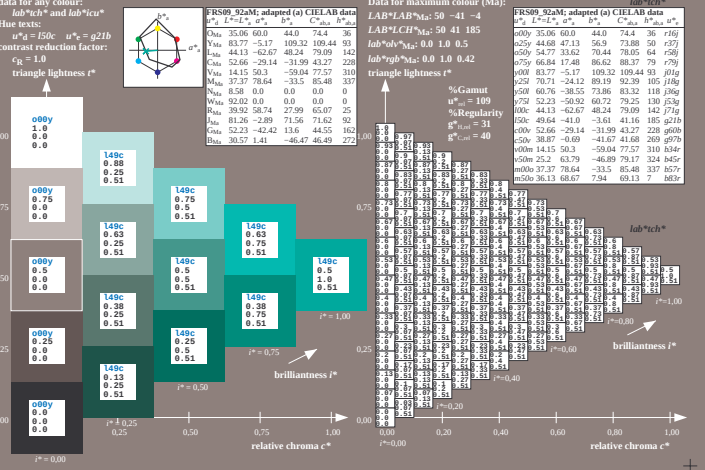
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.396$ $u^*_d = g00b$ lab*ch*
data for any colour: lab*ch* and lab*icu*
Hue texts: $u^*_d = l00c$ $u^*_e = j71g$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 44 −63 48 $LAB^*LCH^*_{Ma}$: 44 79 142 $lab^*olv^*_{Ma}$: 0.0 1.0 0.0 $lab^*rgb^*_{Ma}$: 0.28 1.0 0.0
%Gamut $u^*_{ce} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$



FRS09_92aM; adapted (a) CIELAB data	u^*_d	L^*_{CIE}	a^*_d	b^*_d	$C^*_{d,a}$	$h^*_{d,a}$	u^*_e
O_{Ma}	35.06	60.0	44.0	74.4	36		r16j
Y_{Ma}	83.77	−5.17	109.32	109.44	93		
L^*_{Ma}	44.13	−62.67	48.24	79.09	142		
C^*_{Ma}	52.66	−29.14	−31.99	43.27	228		
V_{Ma}	14.15	50.3	−59.04	77.57	310		
M^*_{Ma}	37.37	78.64	−33.5	85.48	337		
N_{Ma}	8.58	0.0	0.0	0.0	0		
W_{Ma}	92.02	0.0	0.0	0.0	0		
R_{Ma}	39.92	58.74	27.99	65.07	25		
B_{Ma}	81.26	−2.89	71.56	71.62	92		
O_{Bu}	52.23	−42.42	13.6	44.55	162		
B_{Bu}	30.57	1.41	−46.47	46.49	272		

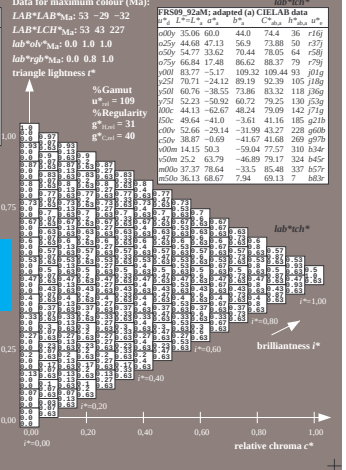
FRS09_92aM; adapted (a) CIELAB data	u^*_d	L^*_{CIE}	a^*_d	b^*_d	$C^*_{d,a}$	$h^*_{d,a}$	u^*_e
$o00y$	35.06	60.0	44.0	74.4	36		r16j
$o25y$	44.68	47.13	56.9	73.88	50		r37j
$o50y$	54.77	33.62	70.44	78.05	64		r58j
$o75y$	66.84	17.48	86.62	88.37	79		r79j
$y00l$	83.77	−5.17	109.32	109.44	93		j01g
$y25l$	70.71	−24.12	89.19	92.39	105		j18g
$y50l$	60.76	−38.55	73.86	83.32	118		j36g
$y75l$	52.23	−50.92	60.72	79.25	130		j53g
$l00c$	44.13	−62.67	48.24	79.09	142		j71g
$l50c$	49.64	−41.0	−3.61	41.16	185		g21b
$c00c$	52.66	−29.14	−31.99	43.27	228		g60b
$c50v$	38.87	−0.69	−41.67	41.68	269		g97b
$v00m$	14.15	50.3	−59.04	77.57	310		b34r
$v50m$	25.2	63.79	−46.89	79.17	324		b45r
$m00o$	37.37	78.64	−33.5	85.48	337		b57r
$m50o$	36.13	68.67	7.94	69.13	7		b83r

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.514$ $u^*_d = g25b$ lab*ch*
data for any colour: lab*ch* and lab*icu*
Hue texts: $u^*_d = l50c$ $u^*_e = g21b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 50 −41 −4 $LAB^*LCH^*_{Ma}$: 50 41 185 $lab^*olv^*_{Ma}$: 0.0 1.0 0.5 $lab^*rgb^*_{Ma}$: 0.0 1.0 0.42
%Gamut $u^*_{ce} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$



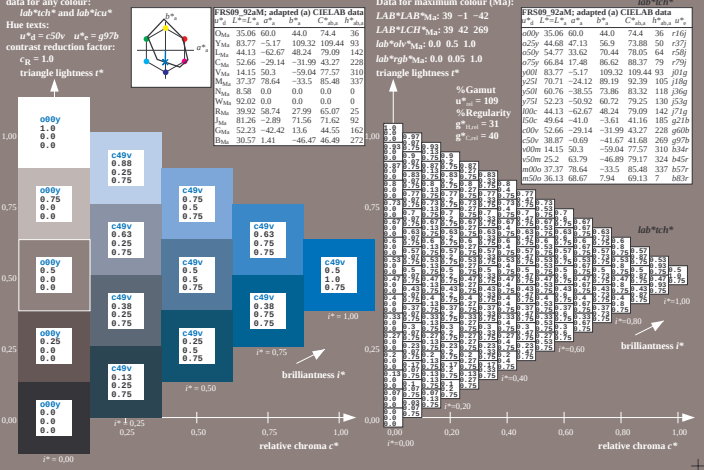
FRS09_92aM; adapted (a) CIELAB data	u^*_d	L^*_{CIE}	a^*_d	b^*_d	$C^*_{d,a}$	$h^*_{d,a}$	u^*_e
$o00y$	35.06	60.0	44.0	74.4	36		r16j
$o25y$	44.68	47.13	56.9	73.88	50		r37j
$o50y$	54.77	33.62	70.44	78.05	64		r58j
$o75y$	66.84	17.48	86.62	88.37	79		r79j
$y00l$	83.77	−5.17	109.32	109.44	93		j01g
$y25l$	70.71	−24.12	89.19	92.39	105		j18g
$y50l$	60.76	−38.55	73.86	83.32	118		j36g
$y75l$	52.23	−50.92	60.72	79.25	130		j53g
$l00c$	44.13	−62.67	48.24	79.09	142		j71g
$l50c$	49.64	−41.0	−3.61	41.16	185		g21b
$c00v$	52.66	−29.14	−31.99	43.27	228		g60b
$c50v$	38.87	−0.69	−41.67	41.68	269		g97b
$v00m$	14.15	50.3	−59.04	77.57	310		b34r
$v50m$	25.2	63.79	−46.89	79.17	324		b45r
$m00o$	37.37	78.64	−33.5	85.48	337		b57r
$m50o$	36.13	68.67	7.94	69.13	7		b83r

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.632$ $u^*_d = g50b$ lab*ch*
data for any colour: lab*ch* and lab*icu*
Hue texts: $u^*_d = c00v$ $u^*_e = g60b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 53 −29 −32 $LAB^*LCH^*_{Ma}$: 53 43 227 $lab^*olv^*_{Ma}$: 0.0 1.0 1.0 $lab^*rgb^*_{Ma}$: 0.0 0.8 1.0
%Gamut $u^*_{ce} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$



FRS09_92aM; adapted (a) CIELAB data	u^*_d	L^*_{CIE}	a^*_d	b^*_d	$C^*_{d,a}$	$h^*_{d,a}$	u^*_e
$o00y$	35.06	60.0	44.0	74.4	36		r16j
$o25y$	44.68	47.13	56.9	73.88	50		r37j
$o50y$	54.77	33.62	70.44	78.05	64		r58j
$o75y$	66.84	17.48	86.62	88.37	79		r79j
$y00l$	83.77	−5.17	109.32	109.44	93		j01g
$y25l$	70.71	−24.12	89.19	92.39	105		j18g
$y50l$	60.76	−38.55	73.86	83.32	118		j36g
$y75l$	52.23	−50.92	60.72	79.25	130		j53g
$l00c$	44.13	−62.67	48.24	79.09	142		j71g
$l50c$	49.64	−41.0	−3.61	41.16	185		g21b
$c00v$	52.66	−29.14	−31.99	43.27	228		g60b
$c50v$	38.87	−0.69	−41.67	41.68	269		g97b
$v00m$	14.15	50.3	−59.04	77.57	310		b34r
$v50m$	25.2	63.79	−46.89	79.17	324		b45r
$m00o$	37.37	78.64	−33.5	85.48	337		b57r
$m50o$	36.13	68.67	7.94	69.13	7		b83r

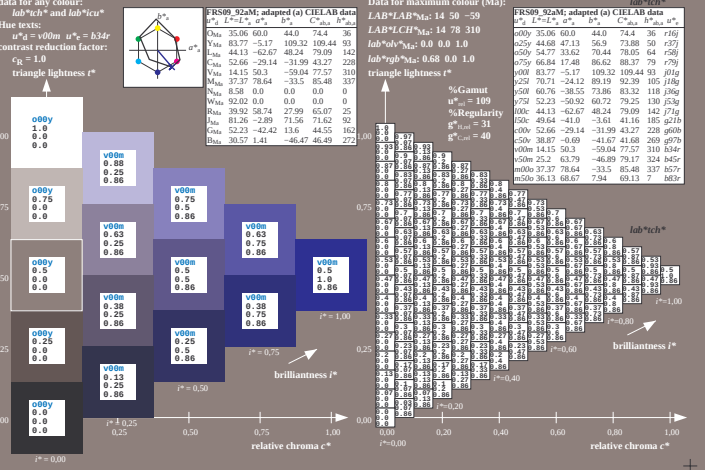
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.747$ $u^*_d = g75b$ lab*ch*
data for any colour: lab*ch* and lab*icu*
Hue texts: $u^*_d = c50v$ $u^*_e = g97b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 39 −1 −42 $LAB^*LCH^*_{Ma}$: 39 42 269 $lab^*olv^*_{Ma}$: 0.0 0.5 1.0 $lab^*rgb^*_{Ma}$: 0.0 0.05 1.0
%Gamut $u^*_{ce} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$



FRS09_92aM; adapted (a) CIELAB data	u^*_d	L^*_{CIE}	a^*_d	b^*_d	$C^*_{d,a}$	$h^*_{d,a}$	u^*_e
O_{Ma}	35.06	60.0	44.0	74.4	36		r16j
Y_{Ma}	83.77	−5.17	109.32	109.44	93		
L^*_{Ma}	44.13	−62.67	48.24	79.09	142		
C^*_{Ma}	52.66	−29.14	−31.99	43.27	228		
V_{Ma}	14.15	50.3	−59.04	77.57	310		
M^*_{Ma}	37.37	78.64	−33.5	85.48	337		
N_{Ma}	8.58	0.0	0.0	0.0	0		
W_{Ma}	92.02	0.0	0.0	0.0	0		
R_{Ma}	39.92	58.74	27.99	65.07	25		
B_{Ma}	81.26	−2.89	71.56	71.62	92		
O_{Bu}	52.23	−42.42	13.6	44.55	162		
B_{Bu}	30.57	1.41	−46.47	46.49	272		

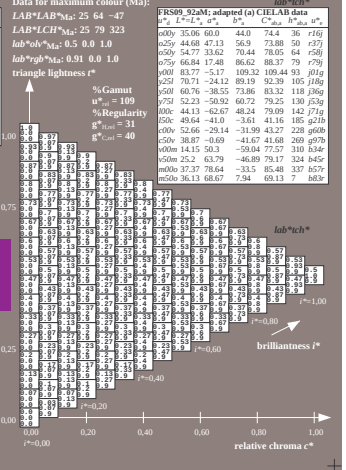
FRS09_92aM; adapted (a) CIELAB data	u^*_d	L^*_{CIE}	a^*_d	b^*_d	$C^*_{d,a}$	$h^*_{d,a}$	u^*_e
$o00y$	35.06	60.0	44.0	74.4	36		r16j
$o25y$	44.68	47.13	56.9	73.88	50		r37j
$o50y$	54.77	33.62	70.44	78.05	64		r58j
$o75y$	66.84	17.48	86.62	88.37	79		r79j
$y00l$	83.77	−5.17	109.32	109.44	93		j01g
$y25l$	70.71	−24.12	89.19	92.39	105		j18g
$y50l$	60.76	−38.55	73.86	83.32	118		j36g
$y75l$	52.23	−50.92	60.72	79.25	130		j53g
$l00c$	44.13	−62.67	48.24	79.09	142		j71g
$l50c$	49.64	−41.0	−3.61	41.16	185		g21b
$c00v$	52.66	−29.14	−31.99	43.27	228		g60b
$c50v$	38.87	−0.69	−41.67	41.68	269		g97b
$v00m$	14.15	50.3	−59.04	77.57	310		b34r
$v50m$	25.2	63.79	−46.89	79.17	324		b45r
$m00o$	37.37	78.64	−33.5	85.48	337		b57r
$m50o$	36.13	68.67	7.94	69.13	7		b83r

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.862$ $u^*_d = b00r$ lab*ch*
data for any colour: lab*ch* and lab*icu*
Hue texts: $u^*_d = v00m$ $u^*_e = b34r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 14 50 −59 $LAB^*LCH^*_{Ma}$: 14 78 310 $lab^*olv^*_{Ma}$: 0.0 0.0 1.0 $lab^*rgb^*_{Ma}$: 0.68 0.0 1.0
%Gamut $u^*_{ce} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$



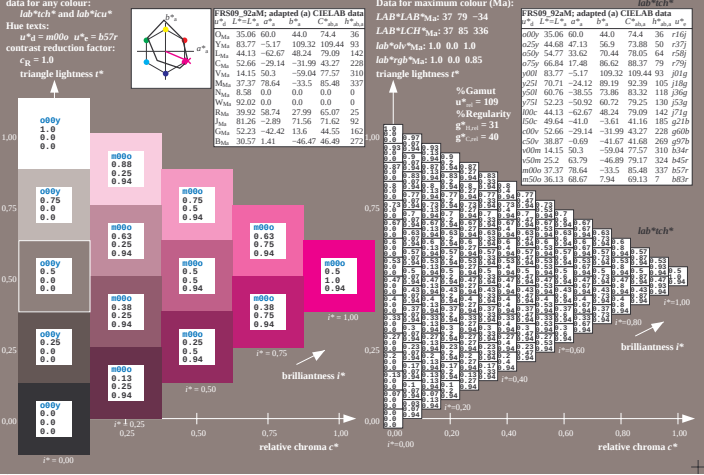
FRS09_92aM; adapted (a) CIELAB data	u^*_d	L^*_{CIE}	a^*_d	b^*_d	$C^*_{d,a}$	$h^*_{d,a}$	u^*_e
$o00y$	35.06	60.0	44.0	74.4	36		r16j
$o25y$	44.68	47.13	56.9	73.88	50		r37j
$o50y$	54.77	33.62	70.44	78.05	64		r58j
$o75y$	66.84	17.48	86.62	88.37	79		r79j
$y00l$	83.77	−5.17	109.32	109.44	93		j01g
$y25l$	70.71	−24.12	89.19	92.39	105		j18g
$y50l$	60.76	−38.55	73.86	83.32	118		j36g
$y75l$	52.23	−50.92	60.72	79.25	130		j53g
$l00c$	44.13	−62.67	48.24	79.09	142		j71g
$l50c$	49.64	−41.0	−3.61	41.16	185		g21b
$c00v$	52.66	−29.14	−31.99	43.27	228		g60b
$c50v$	38.87	−0.69	−41.67	41.68	269		g97b
$v00m$	14.15	50.3	−59.04	77.57	310		b34r
$v50m$	25.2	63.79	−46.89	79.17	324		b45r
$m00o$	37.37	78.64	−33.5	85.48	337		b57r
$m50o$	36.13	68.67	7.94	69.13	7		b83r

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.899$ $u^*_d = b25r$ lab*ch*
data for any colour: lab*ch* and lab*icu*
Hue texts: $u^*_d = v50m$ $u^*_e = b45r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 25 64 −47 $LAB^*LCH^*_{Ma}$: 25 79 323 $lab^*olv^*_{Ma}$: 0.5 0.0 1.0 $lab^*rgb^*_{Ma}$: 0.91 0.0 1.0
%Gamut $u^*_{ce} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$



FRS09_92aM; adapted (a) CIELAB data	u^*_d	L^*_{CIE}	a^*_d	b^*_d	$C^*_{d,a}$	$h^*_{d,a}$	u^*_e
$o00y$	35.06	60.0	44.0	74.4	36		r16j
$o25y$	44.68	47.13	56.9	73.88	50		r37j
$o50y$	54.77	33.62	70.44	78.05	64		r58j
$o75y$	66.84	17.48	86.62	88.37	79		r79j
$y00l$	83.77	−5.17	109.32	109.44	93		j01g
$y25l$	70.71	−24.12	89.19	92.39	105		j18g
$y50l$	60.76	−38.55	73.86	83.32	118		j36g
$y75l$	52.23	−50.92	60.72	79.25	130		j53g
$l00c$	44.13	−62.67	48.24	79.09	142		j71g
$l50c$	49.64	−41.0	−3.61	41.16	185		g21b
$c00v$	52.66	−29.14	−31.99	43.27	228		g60b
$c50v$	38.87	−0.69	−41.67	41.68	269		g97b
$v00m$	14.15	50.3	−59.04	77.57	310		b34r
$v50m$	25.2	63.79	−46.89	79.17	324		b45r
$m00o$	37.37	78.64	−33.5	85.48	337		b57r
$m50o$	36.13	68.67	7.94	69.13	7		b83r

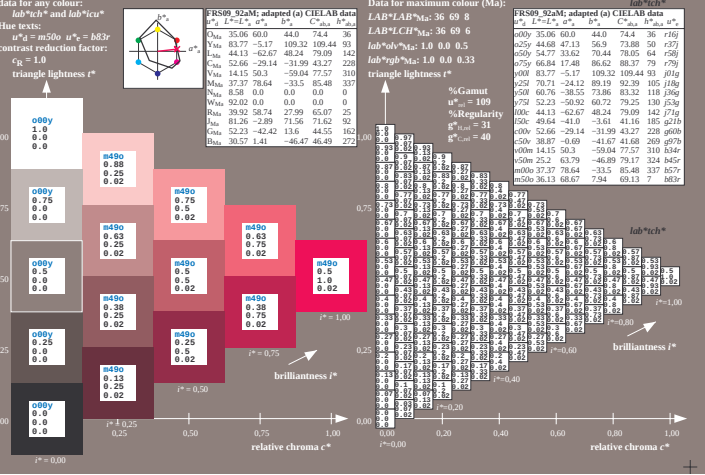
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.936$ $u^*_d = b50r$ lab*ch*
data for any colour: lab*ch* and lab*icu*
Hue texts: $u^*_d = m00o$ $u^*_e = b57r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 37 79 −34 $LAB^*LCH^*_{Ma}$: 37 85 336 $lab^*olv^*_{Ma}$: 1.0 0.0 1.0 $lab^*rgb^*_{Ma}$: 1.0 0.0 0.85
%Gamut $u^*_{ce} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$



FRS09_92aM; adapted (a) CIELAB data	u^*_d	L^*_{CIE}	a^*_d	b^*_d	$C^*_{d,a}$	$h^*_{d,a}$	u^*_e
O_{Ma}	35.06	60.0	44.0	74.4	36		r16j
Y_{Ma}	83.77	−5.17	109.32	109.44	93		
L^*_{Ma}	44.13	−62.67	48.24	79.09	142		
C^*_{Ma}	52.66	−29.14	−31.99	43.27	228		
V_{Ma}	14.15	50.3	−59.04	77.57	310		
M^*_{Ma}	37.37	78.64	−33.5	85.48	337		
N_{Ma}	8.58	0.0	0.0	0.0	0		
W_{Ma}	92.02	0.0	0.0	0.0	0		
R_{Ma}	39.92	58.74	27.99	65.07	25		
B_{Ma}	81.26	−2.89	71.56	71.62	92		
O_{Bu}	52.23	−42.42	13.6	44.55	162		
B_{Bu}	30.57	1.41	−46.47	46.49	272		

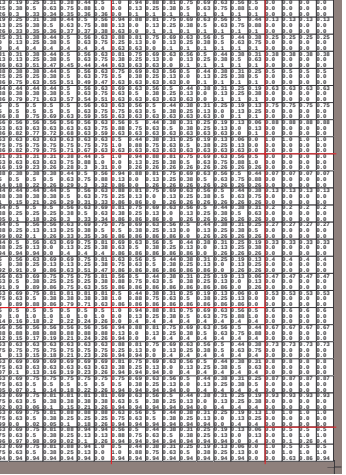
FRS09_92aM; adapted (a) CIELAB data	u^*_d	L^*_{CIE}	a^*_d	b^*_d	$C^*_{d,a}$	$h^*_{d,a}$	u^*_e
$o00y$	35.06	60.0	44.0	74.4	36		r16j
$o25y$	44.68	47.13	56.9	73.88	50		r37j
$o50y$	54.77	33.62	70.44	78.05	64		r58j
$o75y$	66.84	17.48	86.62	88.37	79		r79j
$y00l$	83.77	−5.17	109.32	109.44	93		j01g
$y25l$	70.71	−24.12	89.19	92.39	105		j18g
$y50l$	60.76	−38.55	73.86	83.32	118		j36g
$y75l$	52.23	−50.92	60.72	79.25	130		j53g
$l00c$	44.13	−62.67	48.24	79.09	142		j71g
$l50c$	49.64	−41.0	−3.61	41.16	185		g21b
$c00v$	52.66	−29.14	−31.99	43.27	228		g60b
$c50v$	38.87	−0.69	−41.67	41.68	269		g97b
$v00m$	14.15	50.3	−59.04	77.57	310		b34r
$v50m$	25.2	63.79	−46.89	79.17	324		b45r
$m00o$	37.37	78.64	−33.5	85.48	337		b57r
$m50o$	36.13	68.67	7.94	69.13	7		b83r

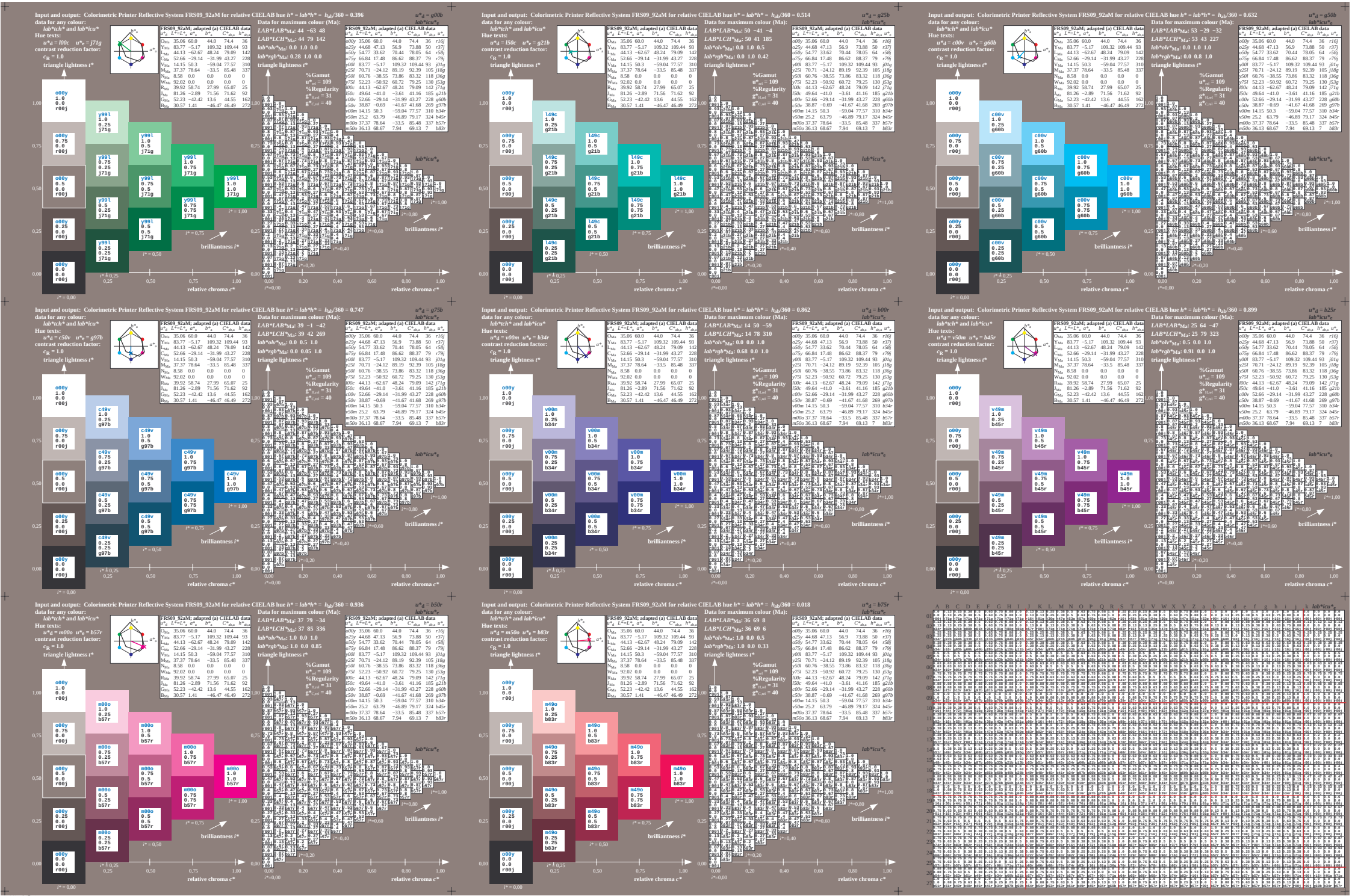
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.018$ $u^*_d = b75r$ lab*ch*
data for any colour: lab*ch* and lab*icu*
Hue texts: $u^*_d = m50o$ $u^*_e = b83r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 36 69 8 $LAB^*LCH^*_{Ma}$: 36 69 6 $lab^*olv^*_{Ma}$: 1.0 0.0 0.5 $lab^*rgb^*_{Ma}$: 1.0 0.0 0.33
%Gamut $u^*_{ce} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$

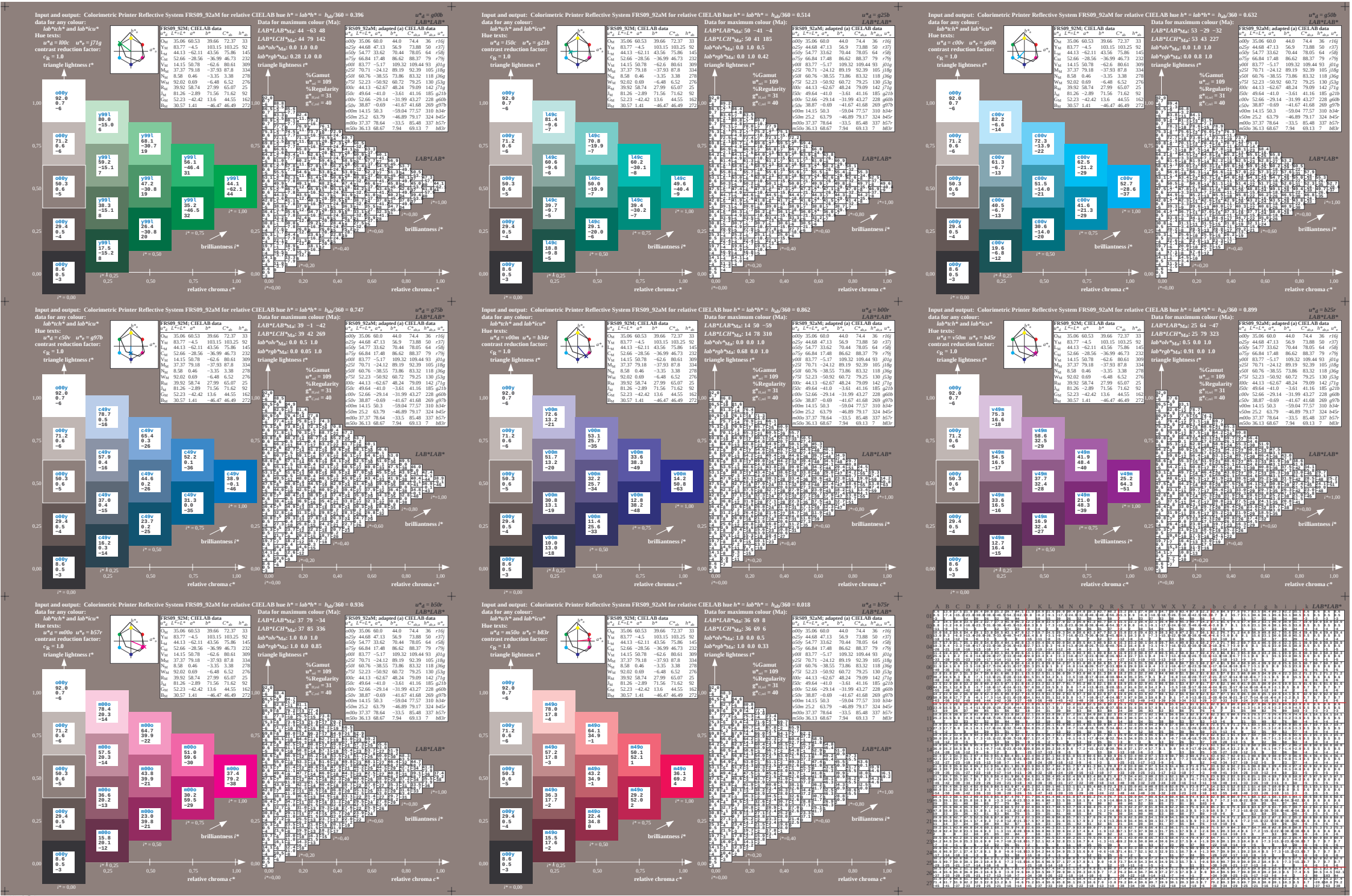


FRS09_92aM; adapted (a) CIELAB data	u^*_d	L^*_{CIE}	a^*_d	b^*_d	$C^*_{d,a}$	$h^*_{d,a}$	u^*_e
O_{Ma}	35.06	60.0	44.0	74.4	36		r16j
Y_{Ma}	83.77	−5.17	109.32	109.44	93		
L^*_{Ma}	44.13	−62.67	48.24	79.09	142		
C^*_{Ma}	52.66	−29.14	−31.99	43.27	228		
V_{Ma}	14.15	50.3	−59.04	77.57	310		
M^*_{Ma}	37.37	78.64	−33.5	85.48	337		
N_{Ma}	8.58	0.0	0.0	0.0	0		
W_{Ma}	92.02	0.0	0.0	0.0	0		
R_{Ma}	39.92	58.74	27.99	65.07	25		
B_{Ma}	81.26	−2.89	71.56	71.62	92		
O_{Bu}	52.23	−42.42	13.6	44.55	162		
B_{Bu}	30.57	1.41	−46.47	46.49	272		

FRS09_92aM; adapted (a) CIELAB data	u^*_d	L^*_{CIE}	a^*_d	b^*_d	$C^*_{d,a}$	$h^*_{d,a}$	u^*_e
$o00y$	35.06	60.0	44.0	74.4	36		r16j
$o25y$	44.68	47.13	56.9	73.88	50		r37j
$o50y$	54.77	33.62	70.44	78.05	64		r58j
$o75y$	66.84	17.48	86.62	88.37	79		r79j
$y00l$	83.77	−5.17	109.32	109.44	93		j01g
$y25l$	70.71	−24.12	89.19	92.39	105		j18g
$y50l$	60.76	−38.55	73.86	83.32	118		j36g
$y75l$	52.23	−50.92	60.72	79.25	130		j53g
$l00c$	44.13	−62.67	48.24	79.09	142		j71g
$l50c$	49.64	−41.0	−3.61	41.16	185		g21b
$c00v$	52.66	−29.14	−31.99	43.27	228		g60b
$c50v$	38.87	−0.69	−41.67	41.68	269		g97b
$v00m$	14.15	50.3	−59.04	77.57	310		b34r
$v50m$	25.2	63.79	−46.89	79.17	324		b45r
$m00o$	37.37	78.64	−33.5	85.48	337		b57r
$m50o$	36.13	68.67	7.94	69.13	7		b83r




Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.396
u*d = g00b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l00c u*e = j71g
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 44 −63 48
LAB*LCH*Ma: 44 79 142
lab*ob/v*Ma: 0.0 1.0 0.0
lab*rgb*Ma: 0.28 1.0 0.0
FRS09_92aM; adapted (a) CIELAB data
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.514
u*d = g25b
Data for maximum colour (Ma):
LAB*LAB*Ma: 50 −41 −4
LAB*LCH*Ma: 50 41 185
lab*ob/v*Ma: 0.0 1.0 0.5
lab*rgb*Ma: 0.0 1.0 0.42
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.632
u*d = g50b
Data for maximum colour (Ma):
LAB*LAB*Ma: 53 −29 −32
LAB*LCH*Ma: 53 43 227
lab*ob/v*Ma: 0.0 1.0 1.0
lab*rgb*Ma: 0.0 0.8 1.0
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.747
u*d = g75b
Data for maximum colour (Ma):
LAB*LAB*Ma: 39 −1 −42
LAB*LCH*Ma: 39 42 269
lab*ob/v*Ma: 0.0 0.5 1.0
lab*rgb*Ma: 0.0 0.05 1.0
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.862
u*d = b00r
Data for maximum colour (Ma):
LAB*LAB*Ma: 14 50 −59
LAB*LCH*Ma: 14 78 310
lab*ob/v*Ma: 0.0 0.0 1.0
lab*rgb*Ma: 0.68 0.0 1.0
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.899
u*d = b25r
Data for maximum colour (Ma):
LAB*LAB*Ma: 25 64 −47
LAB*LCH*Ma: 25 79 323
lab*ob/v*Ma: 0.5 0.0 1.0
lab*rgb*Ma: 0.91 0.0 1.0
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.936
u*d = b50r
Data for maximum colour (Ma):
LAB*LAB*Ma: 37 79 −34
LAB*LCH*Ma: 37 85 336
lab*ob/v*Ma: 1.0 0.0 1.0
lab*rgb*Ma: 1.0 0.0 0.85
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.018
u*d = b75r
Data for maximum colour (Ma):
LAB*LAB*Ma: 36 69 8
LAB*LCH*Ma: 36 69 6
lab*ob/v*Ma: 1.0 0.0 0.5
lab*rgb*Ma: 1.0 0.0 0.33
%Gamut
u*e = 109
%Regularity
g*H,rel = 31
g*Cyl = 40
relative chroma c*
brilliantness j*
lab*icu*e


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.396
u*d = g00b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l00c u*e = j71g
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 44 −63 48
LAB*LCH*Ma: 44 79 142
lab*ovl*Ma: 0.0 1.0 0.0
lab*rgb*Ma: 0.28 1.0 0.0
triangle lightness t*
%Gamut
u*e = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
FRS09_92aM; CIELAB data
FRS09_92aM; adapted (a) CIELAB data
LAB*LAB*
relative chroma c*
brilliantness j*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.514
u*d = g25b
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.632
u*d = g50b
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.747
u*d = g75b
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.862
u*d = b00r
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.899
u*d = b25r
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.936
u*d = b50r
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*h* = hab/360 = 0.018
u*d = b75r

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.396$ $u^*_d = g00b$ lab^*olv^{*}

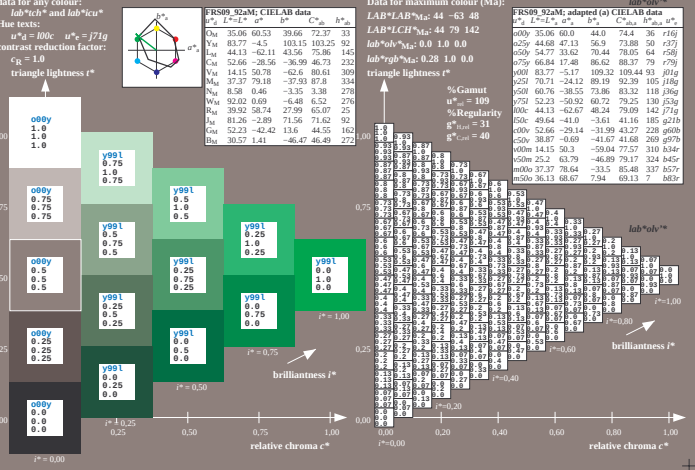
data for any colour: lab^*ch^* and lab^*icu^*

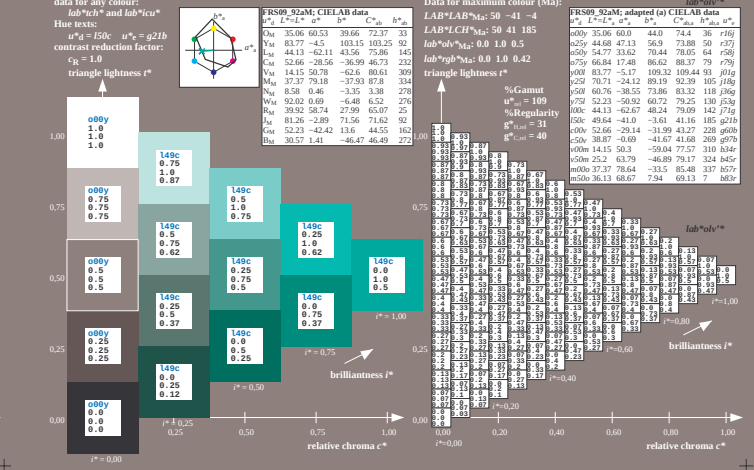
Hue texts: $u^*_d = l00c$ $u^*_e = j71g$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

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





Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.514$ $u^*_d = g25b$ lab^*olv^{*}

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = l50c$ $u^*_e = g21b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

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

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.632$ $u^*_d = g50b$ lab^*olv^{*}

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = c00v$ $u^*_e = g60b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

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

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.747$ $u^*_d = g75b$ lab^*olv^{*}

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = c50v$ $u^*_e = g97b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

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

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.862$ $u^*_d = b00r$ lab^*olv^{*}

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = v00m$ $u^*_e = b34r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

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

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.899$ $u^*_d = b25r$ lab^*olv^{*}

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = v50m$ $u^*_e = b45r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

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

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.936$ $u^*_d = b50r$ lab^*olv^{*}

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = m00o$ $u^*_e = b57r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

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

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.018$ $u^*_d = b75r$ lab^*olv^{*}

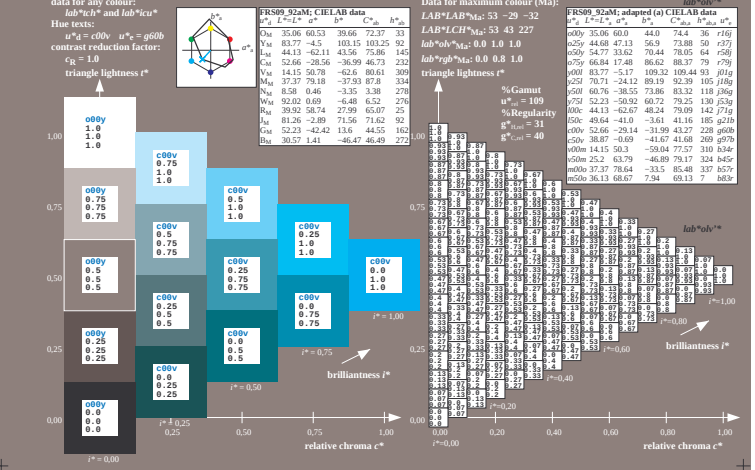
data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = m50o$ $u^*_e = b83r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

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



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.396$ $u^*_d = g00b$

data for any colour: LAB^*cmyn^*

*lab*ch** and *lab*icu**

Hue texts: $u^*_d = l00c$ $u^*_e = j71g$

contrast reduction factor: $c_R = 1.0$

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 44 −63 48

$LAB^*LCH^*_{Ma}$: 44 79 142

$lab^*olv^*_{Ma}$: 0.0 1.0 0.0

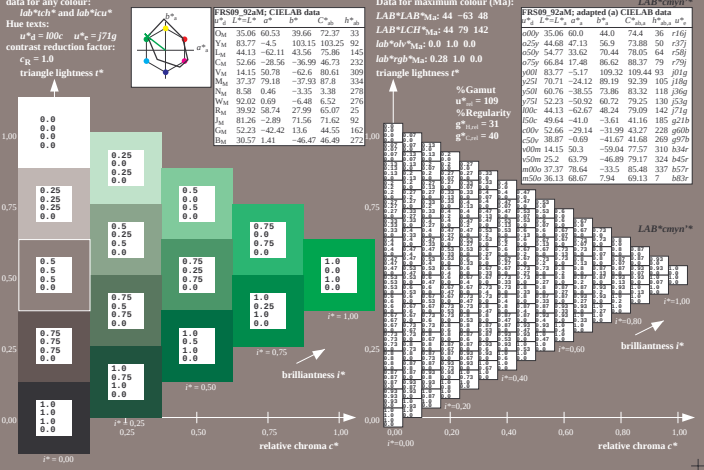
$lab^*rgb^*_{Ma}$: 0.28 1.0 0.0

FRS09_92aM; CIELAB data

	L^*	L^{*-1}	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Mu}	35.06	60.53	39.66	72.37	33	
Y_{Mi}	83.77	−4.5	103.15	103.25	92	
L_{Mi}	44.13	−62.11	43.56	75.86	145	
C_{Mi}	52.66	−28.56	−36.99	46.73	232	
V_{Mi}	14.15	50.78	−62.6	80.61	309	
M_{Ma}	37.37	79.18	−37.93	87.8	334	
N_{Ma}	8.58	0.46	−3.35	3.38	278	
W_{Ma}	92.02	0.69	−6.48	6.52	276	
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	

FRS09_92aM; adapted (a) CIELAB data

	L^*_a	L^{*-1}_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	35.06	60.0	44.0	74.4	36	r16j	
$o_{25}y$	44.68	47.13	56.9	73.88	50	r37j	
$o_{50}y$	54.77	33.62	70.44	78.05	64	r58j	
$o_{75}y$	66.84	17.48	86.62	88.37	79	r79j	
$y_{00}l$	83.77	−5.17	109.32	109.44	93	j01g	
$y_{25}l$	70.71	−24.12	89.19	92.39	105	j18g	
$y_{50}l$	60.76	−38.55	73.86	83.32	118	j36g	
$y_{75}l$	52.23	−50.92	60.72	79.25	130	j53g	
$l_{00}c$	44.13	−62.67	48.24	79.09	142	j71g	
$l_{50}c$	49.64	−41.0	−3.61	41.16	185	g21b	
$c_{00}v$	52.66	−29.14	−31.99	43.27	228	g60b	
$c_{50}v$	38.87	−0.69	−41.67	41.68	269	g97b	
$v_{00}m$	14.15	50.3	−59.04	77.57	310	b34r	
$v_{50}m$	25.2	63.79	−46.89	79.17	324	b45r	
$m_{00}o$	37.37	78.64	−33.5	85.48	337	b57r	
$m_{50}o$	36.13	68.67	7.94	69.13	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.514$ $u^*_d = g25b$

data for any colour: LAB^*cmyn^*

*lab*ch** and *lab*icu**

Hue texts: $u^*_d = l50c$ $u^*_e = g21b$

contrast reduction factor: $c_R = 1.0$

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 50 −41 −4

$LAB^*LCH^*_{Ma}$: 50 41 185

$lab^*olv^*_{Ma}$: 0.0 1.0 0.5

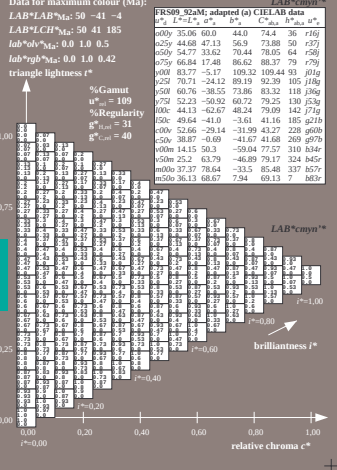
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.42

FRS09_92aM; CIELAB data

	L^*	L^{*-1}	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Mu}	35.06	60.53	39.66	72.37	33	
Y_{Mi}	83.77	−4.5	103.15	103.25	92	
L_{Mi}	44.13	−62.11	43.56	75.86	145	
C_{Mi}	52.66	−28.56	−36.99	46.73	232	
V_{Mi}	14.15	50.78	−62.6	80.61	309	
M_{Ma}	37.37	79.18	−37.93	87.8	334	
N_{Ma}	8.58	0.46	−3.35	3.38	278	
W_{Ma}	92.02	0.69	−6.48	6.52	276	
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	

FRS09_92aM; adapted (a) CIELAB data

	L^*_a	L^{*-1}_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	35.06	60.0	44.0	74.4	36	r16j	
$o_{25}y$	44.68	47.13	56.9	73.88	50	r37j	
$o_{50}y$	54.77	33.62	70.44	78.05	64	r58j	
$o_{75}y$	66.84	17.48	86.62	88.37	79	r79j	
$y_{00}l$	83.77	−5.17	109.32	109.44	93	j01g	
$y_{25}l$	70.71	−24.12	89.19	92.39	105	j18g	
$y_{50}l$	60.76	−38.55	73.86	83.32	118	j36g	
$y_{75}l$	52.23	−50.92	60.72	79.25	130	j53g	
$l_{00}c$	44.13	−62.67	48.24	79.09	142	j71g	
$l_{50}c$	49.64	−41.0	−3.61	41.16	185	g21b	
$c_{00}v$	52.66	−29.14	−31.99	43.27	228	g60b	
$c_{50}v$	38.87	−0.69	−41.67	41.68	269	g97b	
$v_{00}m$	14.15	50.3	−59.04	77.57	310	b34r	
$v_{50}m$	25.2	63.79	−46.89	79.17	324	b45r	
$m_{00}o$	37.37	78.64	−33.5	85.48	337	b57r	
$m_{50}o$	36.13	68.67	7.94	69.13	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.632$ $u^*_d = g50b$

data for any colour: LAB^*cmyn^*

*lab*ch** and *lab*icu**

Hue texts: $u^*_d = c00v$ $u^*_e = g60b$

contrast reduction factor: $c_R = 1.0$

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 53 −29 −32

$LAB^*LCH^*_{Ma}$: 53 43 227

$lab^*olv^*_{Ma}$: 0.0 1.0 1.0

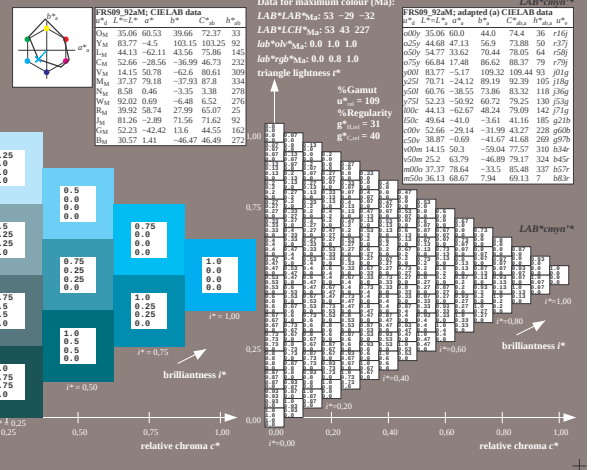
$lab^*rgb^*_{Ma}$: 0.0 0.8 1.0

FRS09_92aM; CIELAB data

	L^*	L^{*-1}	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Mu}	35.06	60.53	39.66	72.37	33	
Y_{Mi}	83.77	−4.5	103.15	103.25	92	
L_{Mi}	44.13	−62.11	43.56	75.86	145	
C_{Mi}	52.66	−28.56	−36.99	46.73	232	
V_{Mi}	14.15	50.78	−62.6	80.61	309	
M_{Ma}	37.37	79.18	−37.93	87.8	334	
N_{Ma}	8.58	0.46	−3.35	3.38	278	
W_{Ma}	92.02	0.69	−6.48	6.52	276	
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	

FRS09_92aM; adapted (a) CIELAB data

	L^*_a	L^{*-1}_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	35.06	60.0	44.0	74.4	36	r16j	
$o_{25}y$	44.68	47.13	56.9	73.88	50	r37j	
$o_{50}y$	54.77	33.62	70.44	78.05	64	r58j	
$o_{75}y$	66.84	17.48	86.62	88.37	79	r79j	
$y_{00}l$	83.77	−5.17	109.32	109.44	93	j01g	
$y_{25}l$	70.71	−24.12	89.19	92.39	105	j18g	
$y_{50}l$	60.76	−38.55	73.86	83.32	118	j36g	
$y_{75}l$	52.23	−50.92	60.72	79.25	130	j53g	
$l_{00}c$	44.13	−62.67	48.24	79.09	142	j71g	
$l_{50}c$	49.64	−41.0	−3.61	41.16	185	g21b	
$c_{00}v$	52.66	−29.14	−31.99	43.27	228	g60b	
$c_{50}v$	38.87	−0.69	−41.67	41.68	269	g97b	
$v_{00}m$	14.15	50.3	−59.04	77.57	310	b34r	
$v_{50}m$	25.2	63.79	−46.89	79.17	324	b45r	
$m_{00}o$	37.37	78.64	−33.5	85.48	337	b57r	
$m_{50}o$	36.13	68.67	7.94	69.13	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.747$ $u^*_d = g75b$

data for any colour: LAB^*cmyn^*

*lab*ch** and *lab*icu**

Hue texts: $u^*_d = c50v$ $u^*_e = g97b$

contrast reduction factor: $c_R = 1.0$

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 39 −1 −42

$LAB^*LCH^*_{Ma}$: 39 42 269

$lab^*olv^*_{Ma}$: 0.0 0.5 1.0

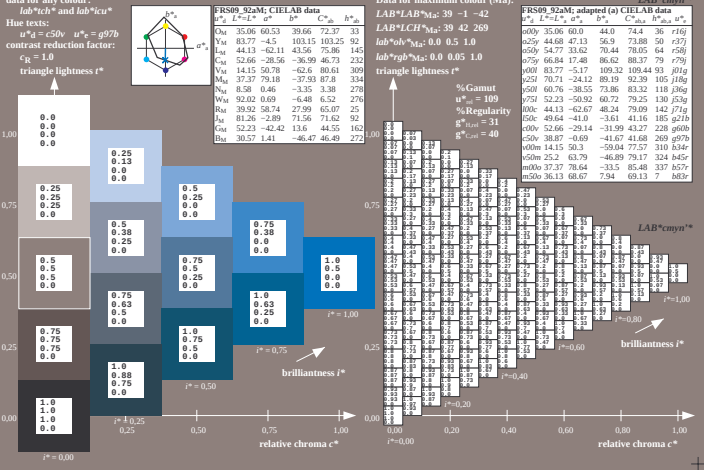
$lab^*rgb^*_{Ma}$: 0.0 0.05 1.0

FRS09_92aM; CIELAB data

	L^*	L^{*-1}	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Mu}	35.06	60.53	39.66	72.37	33	
Y_{Mi}	83.77	−4.5	103.15	103.25	92	
L_{Mi}	44.13	−62.11	43.56	75.86	145	
C_{Mi}	52.66	−28.56	−36.99	46.73	232	
V_{Mi}	14.15	50.78	−62.6	80.61	309	
M_{Ma}	37.37	79.18	−37.93	87.8	334	
N_{Ma}	8.58	0.46	−3.35	3.38	278	
W_{Ma}	92.02	0.69	−6.48	6.52	276	
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	

FRS09_92aM; adapted (a) CIELAB data

	L^*_a	L^{*-1}_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	35.06	60.0	44.0	74.4	36	r16j	
$o_{25}y$	44.68	47.13	56.9	73.88	50	r37j	
$o_{50}y$	54.77	33.62	70.44	78.05	64	r58j	
$o_{75}y$	66.84	17.48	86.62	88.37	79	r79j	
$y_{00}l$	83.77	−5.17	109.32	109.44	93	j01g	
$y_{25}l$	70.71	−24.12	89.19	92.39	105	j18g	
$y_{50}l$	60.76	−38.55	73.86	83.32	118	j36g	
$y_{75}l$	52.23	−50.92	60.72	79.25	130	j53g	
$l_{00}c$	44.13	−62.67	48.24	79.09	142	j71g	
$l_{50}c$	49.64	−41.0	−3.61	41.16	185	g21b	
$c_{00}v$	52.66	−29.14	−31.99	43.27	228	g60b	
$c_{50}v$	38.87	−0.69	−41.67	41.68	269	g97b	
$v_{00}m$	14.15	50.3	−59.04	77.57	310	b34r	
$v_{50}m$	25.2	63.79	−46.89	79.17	324	b45r	
$m_{00}o$	37.37	78.64	−33.5	85.48	337	b57r	
$m_{50}o$	36.13	68.67	7.94	69.13	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.862$ $u^*_d = b00r$

data for any colour: LAB^*cmyn^*

*lab*ch** and *lab*icu**

Hue texts: $u^*_d = v00m$ $u^*_e = b34r$

contrast reduction factor: $c_R = 1.0$

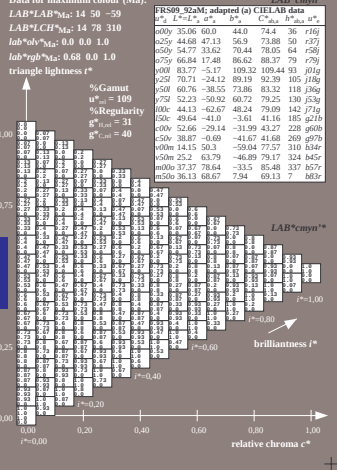
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 14 50 −59

$LAB^*LCH^*_{Ma}$: 14 78 310

$lab^*olv^*_{Ma}$: 0.0 0.0 1.0

$lab^*rgb^*_{Ma}$: 0.68 0.0 1.0



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.899$ $u^*_d = b25r$

data for any colour: LAB^*cmyn^*

*lab*ch** and *lab*icu**

Hue texts: $u^*_d = v50m$ $u^*_e = b45r$

contrast reduction factor: $c_R = 1.0$

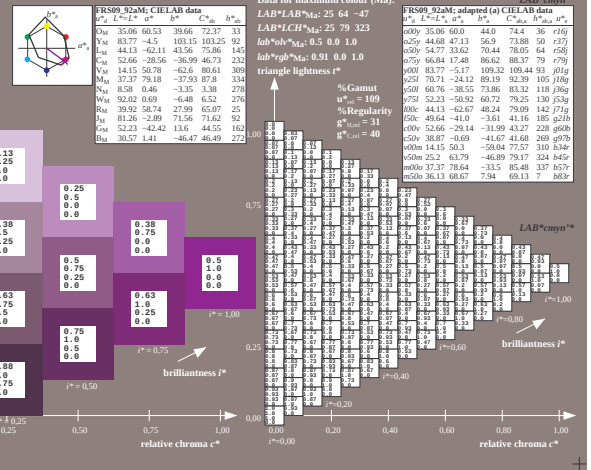
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 25 64 −47

$LAB^*LCH^*_{Ma}$: 25 79 323

$lab^*olv^*_{Ma}$: 0.5 0.0 1.0

$lab^*rgb^*_{Ma}$: 0.91 0.0 1.0



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.936$ $u^*_d = b50r$

data for any colour: LAB^*cmyn^*

*lab*ch** and *lab*icu**

Hue texts: $u^*_d = m00o$ $u^*_e = b57r$

contrast reduction factor: $c_R = 1.0$

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 37 79 −34

$LAB^*LCH^*_{Ma}$: 37 85 336

$lab^*olv^*_{Ma}$: 1.0 0.0 1.0

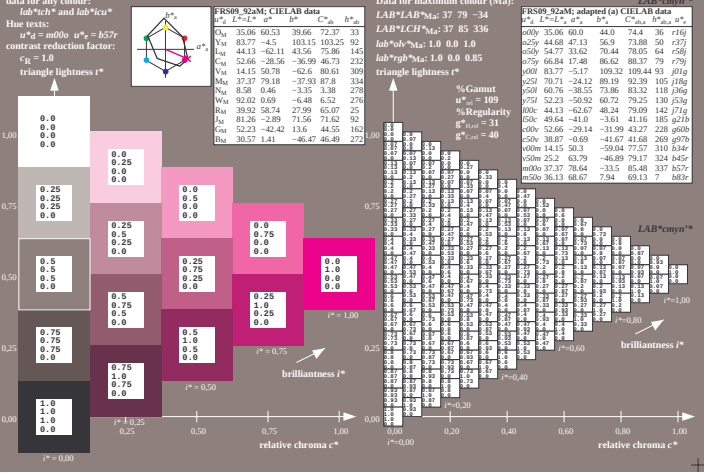
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.85

FRS09_92aM; CIELAB data

	L^*	L^{*-1}	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Mu}	35.06	60.53	39.66	72.37	33	
Y_{Mi}	83.77	−4.5	103.15	103.25	92	
L_{Mi}	44.13	−62.11	43.56	75.86	145	
C_{Mi}	52.66	−28.56	−36.99	46.73	232	
V_{Mi}	14.15	50.78	−62.6	80.61	309	
M_{Ma}	37.37	79.18	−37.93	87.8	334	
N_{Ma}	8.58	0.46	−3.35	3.38	278	
W_{Ma}	92.02	0.69	−6.48	6.52	276	
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	

FRS09_92aM; adapted (a) CIELAB data

	L^*_a	L^{*-1}_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	35.06	60.0	44.0	74.4	36	r16j	
$o_{25}y$	44.68	47.13	56.9	73.88	50	r37j	
$o_{50}y$	54.77	33.62	70.44	78.05	64	r58j	
$o_{75}y$	66.84	17.48	86.62	88.37	79	r79j	
$y_{00}l$	83.77	−5.17	109.32	109.44	93	j01g	
$y_{25}l$	70.71	−24.12	89.19	92.39	105	j18g	
$y_{50}l$	60.76	−38.55	73.86	83.32	118	j36g	
$y_{75}l$	52.23	−50.92	60.72	79.25	130	j53g	
$l_{00}c$	44.13	−62.67	48.24	79.09	142	j71g	
$l_{50}c$	49.64	−41.0	−3.61	41.16	185	g21b	
$c_{00}v$	52.66	−29.14	−31.99	43.27	228	g60b	
$c_{50}v$	38.87	−0.69	−41.67	41.68	269	g97b	
$v_{00}m$	14.15	50.3	−59.04	77.57	310	b34r	
$v_{50}m$	25.2	63.79	−46.89	79.17	324	b45r	
$m_{00}o$	37.37	78.64	−33.5	85.48	337	b57r	
$m_{50}o$	36.13	68.67	7.94	69.13	7	b83r	



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.018$ $u^*_d = b75r$

data for any colour: LAB^*cmyn^*

*lab*ch** and *lab*icu**

Hue texts: $u^*_d = m50o$ $u^*_e = b83r$

contrast reduction factor: $c_R = 1.0$

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 36 69 8

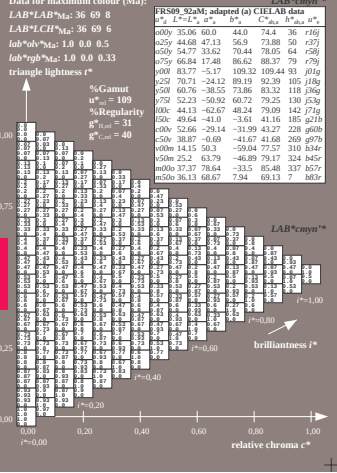
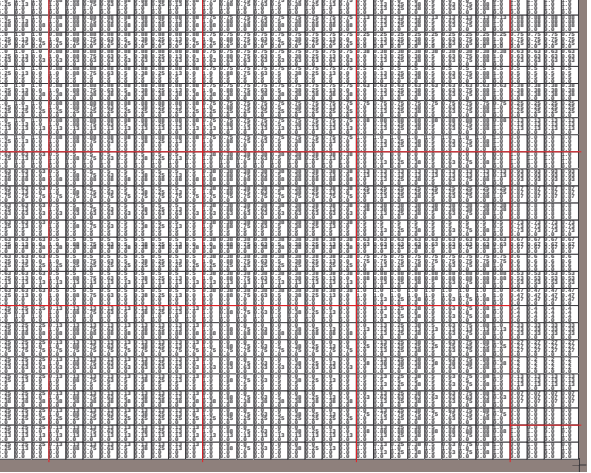
$LAB^*LCH^*_{Ma}$: 36 69 6

$lab^*olv^*_{Ma}$: 1.0 0.0 0.5

$lab^*rgb^*_{Ma}$: 1.0 0.0 0.33

FRS09_92aM; CIELAB data

	L^*	L^{*-1}	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Mu}	35.06	60.53	39.66	72.37	33	
Y_{Mi}	83.77	−4.5	103.15	103.25	92	
L_{Mi}	44.13	−62.11	43.56	75.86	145	
C_{Mi}	52.66	−28.56	−36.99	46.73	232	
V_{Mi}	14.15	50.78	−62.6	80.61	309	
M_{Ma}	37.37	79.18	−37.93	87.8	334	
N_{Ma}	8.58	0.46	−3.35	3.38	278	
W_{Ma}	92.02	0.69	−6.48	6.52	276	
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	

FRS09_92aM; adapted (a) CIELAB data

	L^*_a	L^{*-1}_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	35.06	60.0	44.0	74.4	36	r16j	
$o_{25}y$	44.68	47.13	56.9	73.88	50	r37j	
$o_{50}y$	54.77	33.62	70.44	78.05	64	r58j	
$o_{75}y$	66.84	17.48	86.62	88.37	79	r79j	
$y_{00}l$	83.77	−5.17	109.32	109.44	93	j01g	
$y_{25}l$	70.71	−24.12	89.19	92.39	105	j18g	
$y_{50}l$	60.76	−38.55	73.86	83.32	118	j36g	
$y_{75}l$	52.23	−50.92	60.72	79.25	130	j53g	
$l_{00}c$	44.13	−62.67	48.24	79.09	142	j71g	
$l_{50}c$	49.64	−41.0	−3.61	41.16	185	g21b	
$c_{00}v$	52.66	−29.14	−31.99	43.27	228	g60b	
$c_{50}v$	38.87	−0.69	−41.67	41.68	269	g97b	
$v_{00}m$	14.15	50.3	−59.04	77.57	310	b34r	
$v_{50}m$	25.2	63.79	−46.89	79.17	324	b45r	
$m_{00}o$	37.37	78.64	−33.5	85.48	337	b57r	
$m_{50}o$	36.13	68.67	7.94	69.13	7	b83r