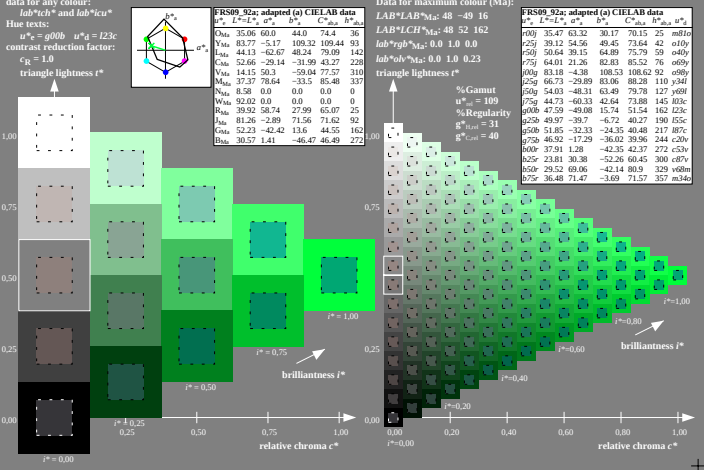
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$ $u^*_\varepsilon = g00b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = g00b$ $u^*_d = f23c$
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 $u^*_{\varepsilon,0} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data	L^*_{ch}	C^*_{ch}	h^*_{ch}	L^*_{icu}	C^*_{icu}	h^*_{icu}
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	
S_{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	

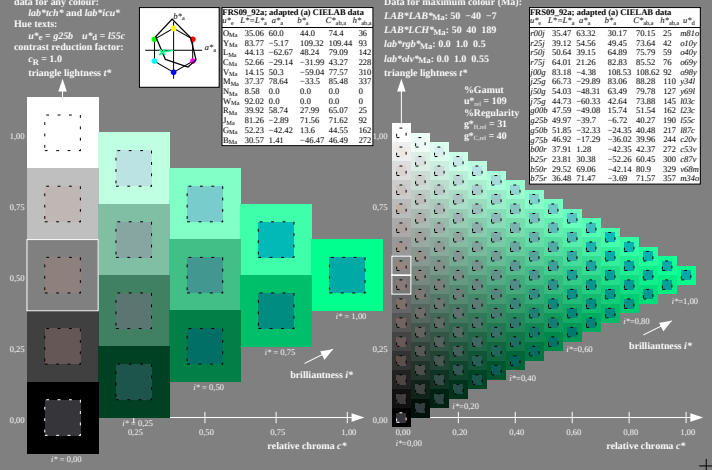
FRS09_92a; adapted (a) CIELAB data	u^*_ε	L^*_{ch}	a^*_{ch}	b^*_{ch}	$C^*_{ch,a}$	$h^*_{ch,a}$	u^*_d
r00	35.47	63.32	30.17	70.15	25	m81c	
r25	39.12	54.56	49.45	73.64	42	o10y	
r50	50.64	39.15	64.89	75.79	59	o40y	
r75	64.01	21.26	82.83	85.52	76	o60y	
y00	83.18	−4.38	108.53	108.62	92	o98y	
y25	66.73	−29.89	83.06	88.28	110	y34f	
y50	54.03	−48.31	63.49	79.78	127	y69f	
y75	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_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.527$ $u^*_\varepsilon = g25b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = g25b$ $u^*_d = f55c$
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 $u^*_{\varepsilon,0} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data	L^*_{ch}	C^*_{ch}	h^*_{ch}	L^*_{icu}	C^*_{icu}	h^*_{icu}
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	
S_{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	

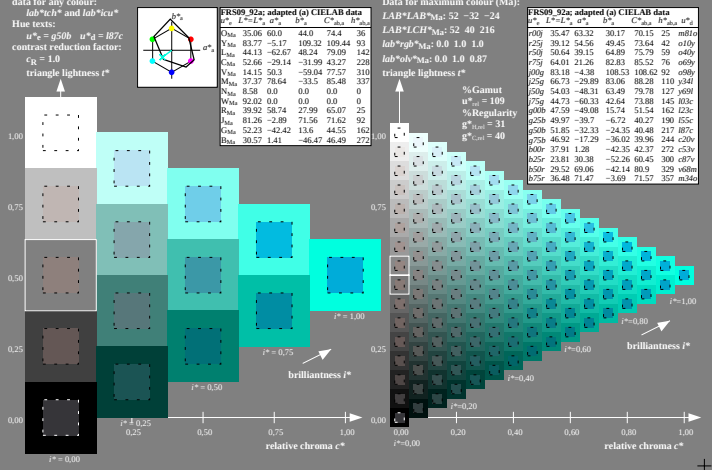
FRS09_92a; adapted (a) CIELAB data	u^*_ε	L^*_{ch}	a^*_{ch}	b^*_{ch}	$C^*_{ch,a}$	$h^*_{ch,a}$	u^*_d
r00	35.47	63.32	30.17	70.15	25	m81c	
r25	39.12	54.56	49.45	73.64	42	o10y	
r50	50.64	39.15	64.89	75.79	59	o40y	
r75	64.01	21.26	82.83	85.52	76	o60y	
y00	83.18	−4.38	108.53	108.62	92	o98y	
y25	66.73	−29.89	83.06	88.28	110	y34f	
y50	54.03	−48.31	63.49	79.78	127	y69f	
y75	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_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.603$ $u^*_\varepsilon = g50b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = g50b$ $u^*_d = l87c$
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 $u^*_{\varepsilon,0} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data	L^*_{ch}	C^*_{ch}	h^*_{ch}	L^*_{icu}	C^*_{icu}	h^*_{icu}
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	
S_{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	

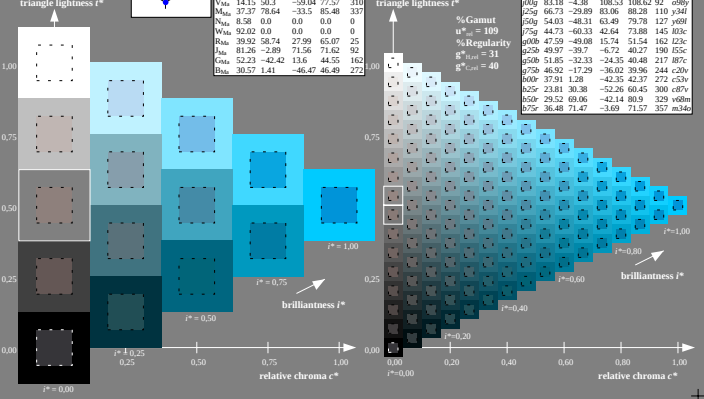
FRS09_92a; adapted (a) CIELAB data	u^*_ε	L^*_{ch}	a^*_{ch}	b^*_{ch}	$C^*_{ch,a}$	$h^*_{ch,a}$	u^*_d
r00	35.47	63.32	30.17	70.15	25	m81c	
r25	39.12	54.56	49.45	73.64	42	o10y	
r50	50.64	39.15	64.89	75.79	59	o40y	
r75	64.01	21.26	82.83	85.52	76	o60y	
y00	83.18	−4.38	108.53	108.62	92	o98y	
y25	66.73	−29.89	83.06	88.28	110	y34f	
y50	54.03	−48.31	63.49	79.78	127	y69f	
y75	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_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.679$ $u^*_\varepsilon = g75b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = g75b$ $u^*_d = c20v$
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 $u^*_{\varepsilon,0} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data	L^*_{ch}	C^*_{ch}	h^*_{ch}	L^*_{icu}	C^*_{icu}	h^*_{icu}
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	
S_{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	

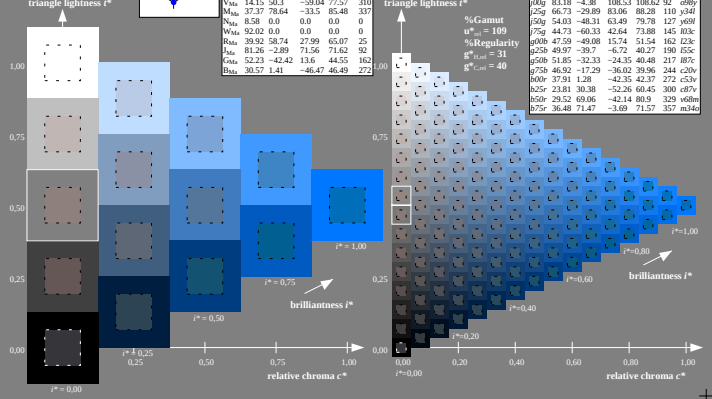
FRS09_92a; adapted (a) CIELAB data	u^*_ε	L^*_{ch}	a^*_{ch}	b^*_{ch}	$C^*_{ch,a}$	$h^*_{ch,a}$	u^*_d
r00	35.47	63.32	30.17	70.15	25	m81c	
r25	39.12	54.56	49.45	73.64	42	o10y	
r50	50.64	39.15	64.89	75.79	59	o40y	
r75	64.01	21.26	82.83	85.52	76	o60y	
y00	83.18	−4.38	108.53	108.62	92	o98y	
y25	66.73	−29.89	83.06	88.28	110	y34f	
y50	54.03	−48.31	63.49	79.78	127	y69f	
y75	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_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.755$ $u^*_\varepsilon = b00r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = b00r$ $u^*_d = c53v$
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 $u^*_{\varepsilon,0} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data	L^*_{ch}	C^*_{ch}	h^*_{ch}	L^*_{icu}	C^*_{icu}	h^*_{icu}
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	
S_{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	

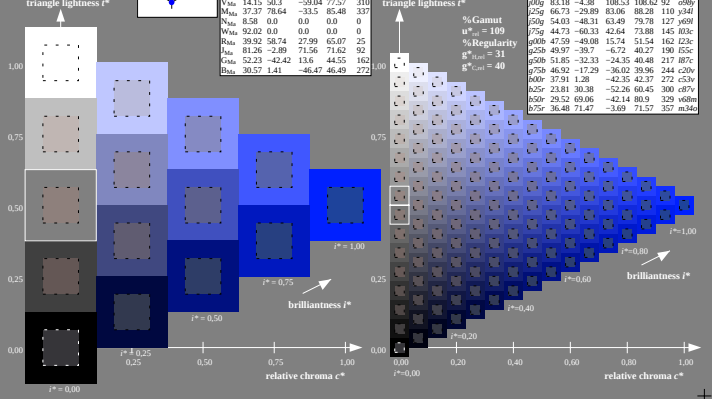
FRS09_92a; adapted (a) CIELAB data	u^*_ε	L^*_{ch}	a^*_{ch}	b^*_{ch}	$C^*_{ch,a}$	$h^*_{ch,a}$	u^*_d
r00	35.47	63.32	30.17	70.15	25	m81c	
r25	39.12	54.56	49.45	73.64	42	o10y	
r50	50.64	39.15	64.89	75.79	59	o40y	
r75	64.01	21.26	82.83	85.52	76	o60y	
y00	83.18	−4.38	108.53	108.62	92	o98y	
y25	66.73	−29.89	83.06	88.28	110	y34f	
y50	54.03	−48.31	63.49	79.78	127	y69f	
y75	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_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.834$ $u^*_\varepsilon = b25r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = b25r$ $u^*_d = c87v$
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 $u^*_{\varepsilon,0} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data	L^*_{ch}	C^*_{ch}	h^*_{ch}	L^*_{icu}	C^*_{icu}	h^*_{icu}
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	
S_{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	

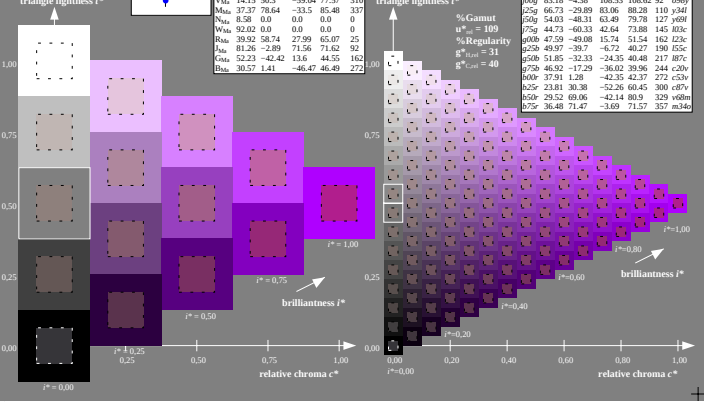
FRS09_92a; adapted (a) CIELAB data	u^*_ε	L^*_{ch}	a^*_{ch}	b^*_{ch}	$C^*_{ch,a}$	$h^*_{ch,a}$	u^*_d
r00	35.47	63.32	30.17	70.15	25	m81c	
r25	39.12	54.56	49.45	73.64	42	o10y	
r50	50.64	39.15	64.89	75.79	59	o40y	
r75	64.01	21.26	82.83	85.52	76	o60y	
y00	83.18	−4.38	108.53	108.62	92	o98y	
y25	66.73	−29.89	83.06	88.28	110	y34f	
y50	54.03	−48.31	63.49	79.78	127	y69f	
y75	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_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.913$ $u^*_\varepsilon = b50r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = b50r$ $u^*_d = v68m$
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 $u^*_{\varepsilon,0} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data	L^*_{ch}	C^*_{ch}	h^*_{ch}	L^*_{icu}	C^*_{icu}	h^*_{icu}
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	
S_{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	

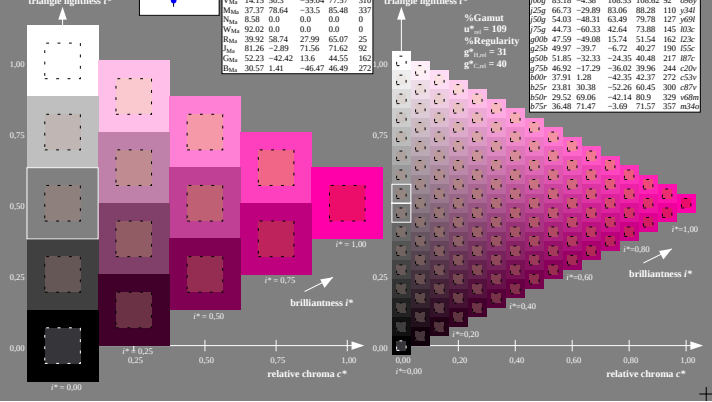
FRS09_92a; adapted (a) CIELAB data	u^*_ε	L^*_{ch}	a^*_{ch}	b^*_{ch}	$C^*_{ch,a}$	$h^*_{ch,a}$	u^*_d
r00	35.47	63.32	30.17	70.15	25	m81c	
r25	39.12	54.56	49.45	73.64	42	o10y	
r50	50.64	39.15	64.89	75.79	59	o40y	
r75	64.01	21.26	82.83	85.52	76	o60y	
y00	83.18	−4.38	108.53	108.62	92	o98y	
y25	66.73	−29.89	83.06	88.28	110	y34f	
y50	54.03	−48.31	63.49	79.78	127	y69f	
y75	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_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.992$ $u^*_\varepsilon = b75r$

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

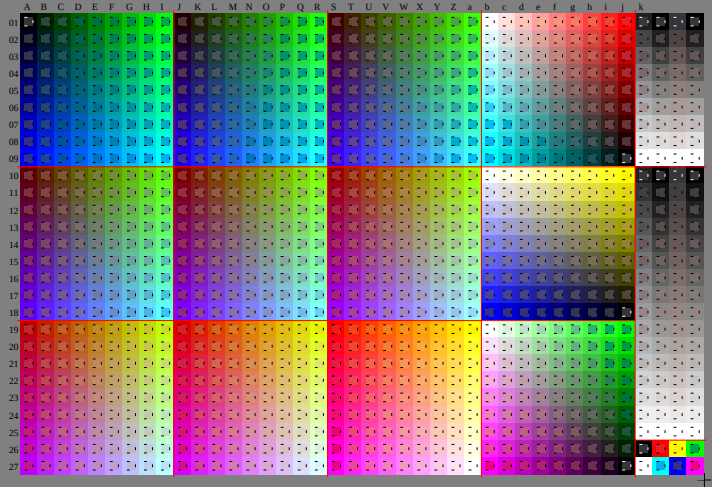
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 36 71 −4
$LAB^*LCH^*_{Ma}$: 36 72 357
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.5
$lab^*olv^*_{Ma}$: 1.0 0.0 0.66
triangle lightness t^*

%Gamut $u^*_{\varepsilon,0} = 109$
%Regularity $g^*_{H,rel} = 31$
$g^*_{C,rel} = 40$



FRS09_92a; adapted (a) CIELAB data	L^*_{ch}	C^*_{ch}	h^*_{ch}	L^*_{icu}	C^*_{icu}	h^*_{icu}
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	
S_{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_92a; adapted (a) CIELAB data	u^*_ε	L^*_{ch}	a^*_{ch}	b^*_{ch}	$C^*_{ch,a}$	$h^*_{ch,a}$	u^*_d
r00	35.47	63.32	30.17	70.15	25	m81c	
r25	39.12	54.56	49.45	73.64	42	o10y	
r50	50.64	39.15	64.89	75.79	59	o40y	
r75	64.01	21.26	82.83	85.52	76	o60y	
y00	83.18	−4.38	108.53	108.62	92	o98y	
y25	66.73	−29.89	83.06	88.28	110	y34f	
y50	54.03	−48.31	63.49	79.78	127	y69f	
y75	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_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.396$ $u^*_d = g00b$

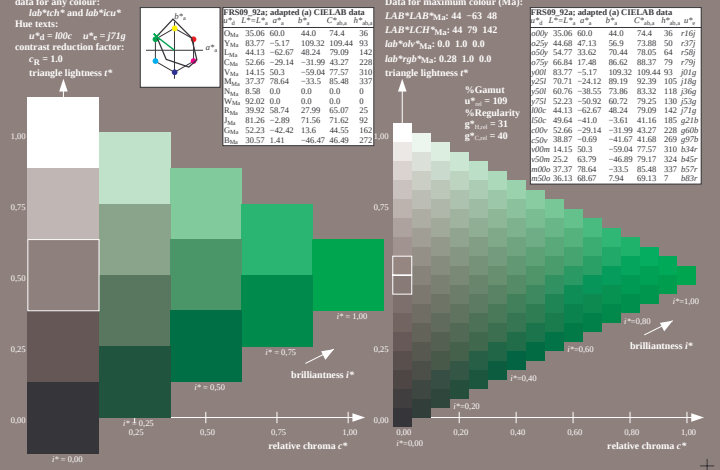
data for any colour:
lab*tch* and lab*icu*
Hue texts:
$u^*_d = l00c$ $u^*_e = j71g$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

	L^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
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^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
o00y	35.06	60.0	44.0	74.4	36
o25y	44.68	47.13	56.9	73.88	50
o50y	54.77	33.62	70.44	78.05	64
o75y	66.84	17.48	86.62	88.37	79
y00f	83.77	−5.17	109.32	109.44	93
y25f	70.71	−24.12	89.19	92.39	105
y50f	60.76	−38.55	73.86	83.32	118
y75f	52.23	−50.92	60.72	79.25	130
l00c	44.13	−62.67	48.24	79.09	142
l50c	49.64	−41.0	−3.61	41.16	185
c00v	52.66	−29.14	−31.99	43.27	228
c50v	38.87	−0.69	−41.67	41.68	269
v00m	14.15	50.3	−59.04	77.57	310
v50m	25.2	63.79	−46.89	79.17	324
m00o	37.37	78.64	−33.5	85.48	337
m50o	36.13	68.67	7.94	69.13	7



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.514$ $u^*_d = g25b$

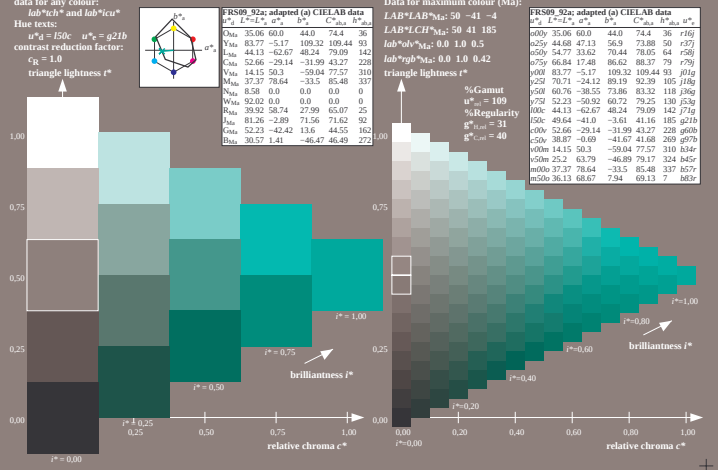
data for any colour:
lab*tch* and lab*icu*
Hue texts:
$u^*_d = l50c$ $u^*_e = g21b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

	L^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
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^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
o00y	35.06	60.0	44.0	74.4	36
o25y	44.68	47.13	56.9	73.88	50
o50y	54.77	33.62	70.44	78.05	64
o75y	66.84	17.48	86.62	88.37	79
y00f	83.77	−5.17	109.32	109.44	93
y25f	70.71	−24.12	89.19	92.39	105
y50f	60.76	−38.55	73.86	83.32	118
y75f	52.23	−50.92	60.72	79.25	130
l00c	44.13	−62.67	48.24	79.09	142
l50c	49.64	−41.0	−3.61	41.16	185
c00v	52.66	−29.14	−31.99	43.27	228
c50v	38.87	−0.69	−41.67	41.68	269
v00m	14.15	50.3	−59.04	77.57	310
v50m	25.2	63.79	−46.89	79.17	324
m00o	37.37	78.64	−33.5	85.48	337
m50o	36.13	68.67	7.94	69.13	7



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.632$ $u^*_d = g50b$

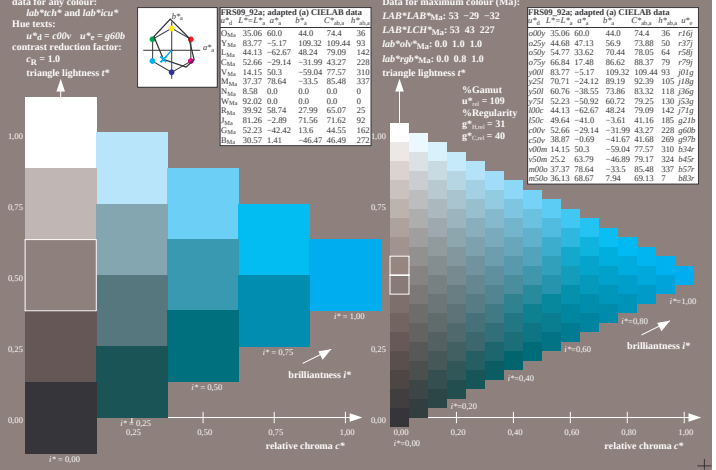
data for any colour:
lab*tch* and lab*icu*
Hue texts:
$u^*_d = c00v$ $u^*_e = g60b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

	L^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
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^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
o00y	35.06	60.0	44.0	74.4	36
o25y	44.68	47.13	56.9	73.88	50
o50y	54.77	33.62	70.44	78.05	64
o75y	66.84	17.48	86.62	88.37	79
y00f	83.77	−5.17	109.32	109.44	93
y25f	70.71	−24.12	89.19	92.39	105
y50f	60.76	−38.55	73.86	83.32	118
y75f	52.23	−50.92	60.72	79.25	130
l00c	44.13	−62.67	48.24	79.09	142
l50c	49.64	−41.0	−3.61	41.16	185
c00v	52.66	−29.14	−31.99	43.27	228
c50v	38.87	−0.69	−41.67	41.68	269
v00m	14.15	50.3	−59.04	77.57	310
v50m	25.2	63.79	−46.89	79.17	324
m00o	37.37	78.64	−33.5	85.48	337
m50o	36.13	68.67	7.94	69.13	7



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.747$ $u^*_d = g75b$

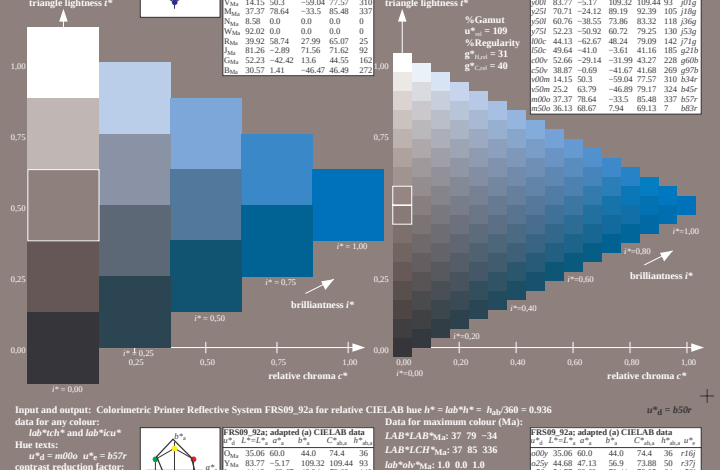
data for any colour:
lab*tch* and lab*icu*
Hue texts:
$u^*_d = c50v$ $u^*_e = g97b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

	L^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
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^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
o00y	35.06	60.0	44.0	74.4	36
o25y	44.68	47.13	56.9	73.88	50
o50y	54.77	33.62	70.44	78.05	64
o75y	66.84	17.48	86.62	88.37	79
y00f	83.77	−5.17	109.32	109.44	93
y25f	70.71	−24.12	89.19	92.39	105
y50f	60.76	−38.55	73.86	83.32	118
y75f	52.23	−50.92	60.72	79.25	130
l00c	44.13	−62.67	48.24	79.09	142
l50c	49.64	−41.0	−3.61	41.16	185
c00v	52.66	−29.14	−31.99	43.27	228
c50v	38.87	−0.69	−41.67	41.68	269
v00m	14.15	50.3	−59.04	77.57	310
v50m	25.2	63.79	−46.89	79.17	324
m00o	37.37	78.64	−33.5	85.48	337
m50o	36.13	68.67	7.94	69.13	7



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.862$ $u^*_d = b00r$

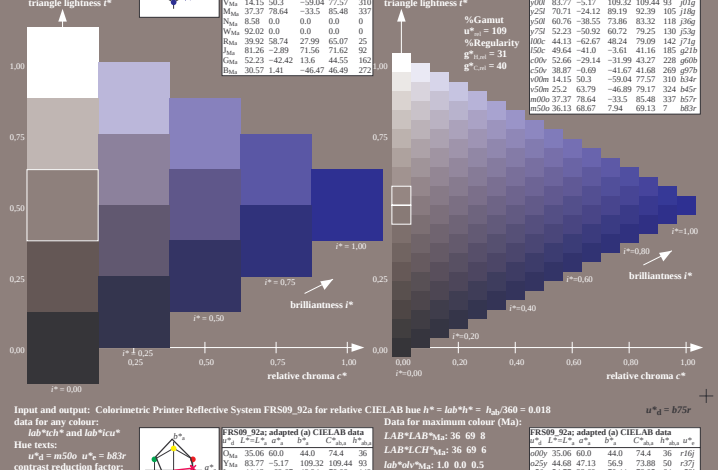
data for any colour:
lab*tch* and lab*icu*
Hue texts:
$u^*_d = v00m$ $u^*_e = b34r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

	L^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
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^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
o00y	35.06	60.0	44.0	74.4	36
o25y	44.68	47.13	56.9	73.88	50
o50y	54.77	33.62	70.44	78.05	64
o75y	66.84	17.48	86.62	88.37	79
y00f	83.77	−5.17	109.32	109.44	93
y25f	70.71	−24.12	89.19	92.39	105
y50f	60.76	−38.55	73.86	83.32	118
y75f	52.23	−50.92	60.72	79.25	130
l00c	44.13	−62.67	48.24	79.09	142
l50c	49.64	−41.0	−3.61	41.16	185
c00v	52.66	−29.14	−31.99	43.27	228
c50v	38.87	−0.69	−41.67	41.68	269
v00m	14.15	50.3	−59.04	77.57	310
v50m	25.2	63.79	−46.89	79.17	324
m00o	37.37	78.64	−33.5	85.48	337
m50o	36.13	68.67	7.94	69.13	7



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.899$ $u^*_d = b25r$

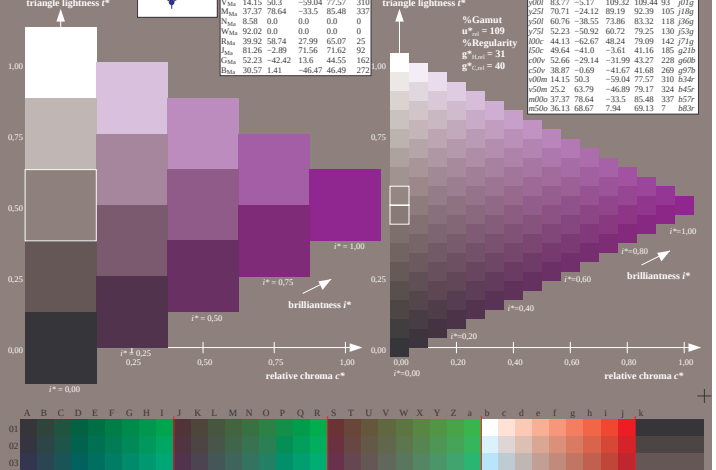
data for any colour:
lab*tch* and lab*icu*
Hue texts:
$u^*_d = v50m$ $u^*_e = b45r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

	L^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
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^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
o00y	35.06	60.0	44.0	74.4	36
o25y	44.68	47.13	56.9	73.88	50
o50y	54.77	33.62	70.44	78.05	64
o75y	66.84	17.48	86.62	88.37	79
y00f	83.77	−5.17	109.32	109.44	93
y25f	70.71	−24.12	89.19	92.39	105
y50f	60.76	−38.55	73.86	83.32	118
y75f	52.23	−50.92	60.72	79.25	130
l00c	44.13	−62.67	48.24	79.09	142
l50c	49.64	−41.0	−3.61	41.16	185
c00v	52.66	−29.14	−31.99	43.27	228
c50v	38.87	−0.69	−41.67	41.68	269
v00m	14.15	50.3	−59.04	77.57	310
v50m	25.2	63.79	−46.89	79.17	324
m00o	37.37	78.64	−33.5	85.48	337
m50o	36.13	68.67	7.94	69.13	7



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.936$ $u^*_d = b50r$

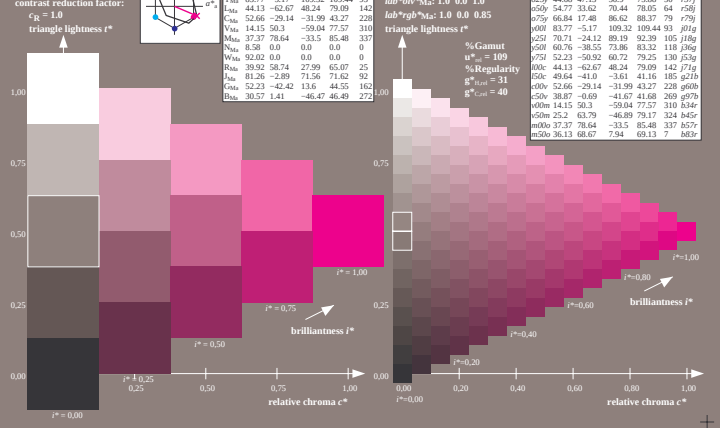
data for any colour:
lab*tch* and lab*icu*
Hue texts:
$u^*_d = m00o$ $u^*_e = b57r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

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

FRS09_92a; adapted (a) CIELAB data

	L^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
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^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
o00y	35.06	60.0	44.0	74.4	36
o25y	44.68	47.13	56.9	73.88	50
o50y	54.77	33.62	70.44	78.05	64
o75y	66.84	17.48	86.62	88.37	79
y00f	83.77	−5.17	109.32	109.44	93
y25f	70.71	−24.12	89.19	92.39	105
y50f	60.76	−38.55	73.86	83.32	118
y75f	52.23	−50.92	60.72	79.25	130
l00c	44.13	−62.67	48.24	79.09	142
l50c	49.64	−41.0	−3.61	41.16	185
c00v	52.66	−29.14	−31.99	43.27	228
c50v	38.87	−0.69	−41.67	41.68	269
v00m	14.15	50.3	−59.04	77.57	310
v50m	25.2	63.79	−46.89	79.17	324
m00o	37.37	78.64	−33.5	85.48	337
m50o	36.13	68.67	7.94	69.13	7



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.018$ $u^*_d = b75r$

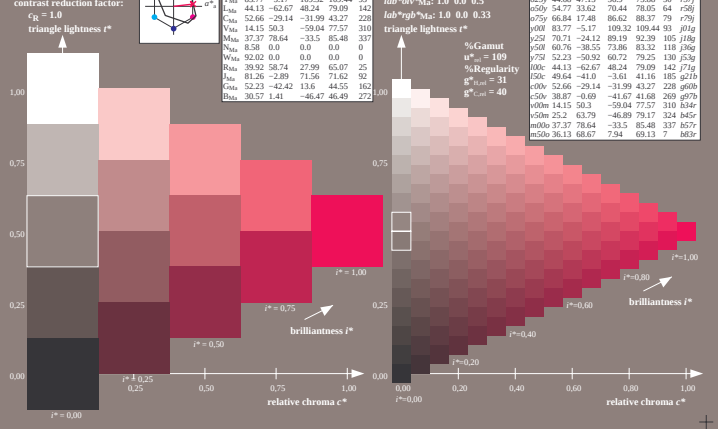
data for any colour:
lab*tch* and lab*icu*
Hue texts:
$u^*_d = m50o$ $u^*_e = b83r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

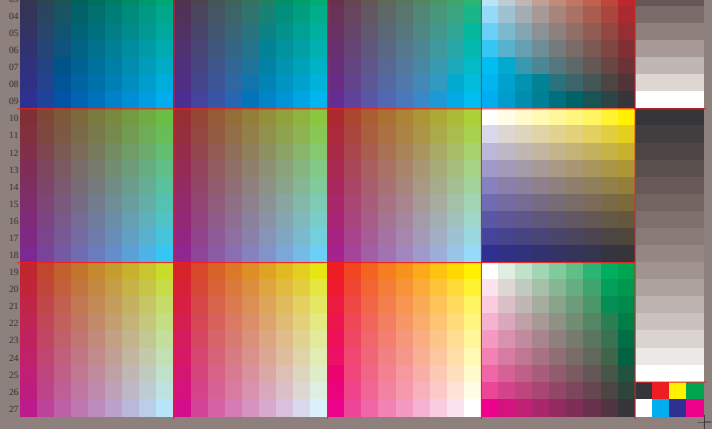
Data for maximum colour (Ma):
$LAB^*L^*_{Ma}$: 36 69 8
$LAB^*LCH^*_{Ma}$: 36 69 6
$lab^*olv^*_{Ma}$: 1.0 0.0 0.5
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.33
triangle lightness t^*

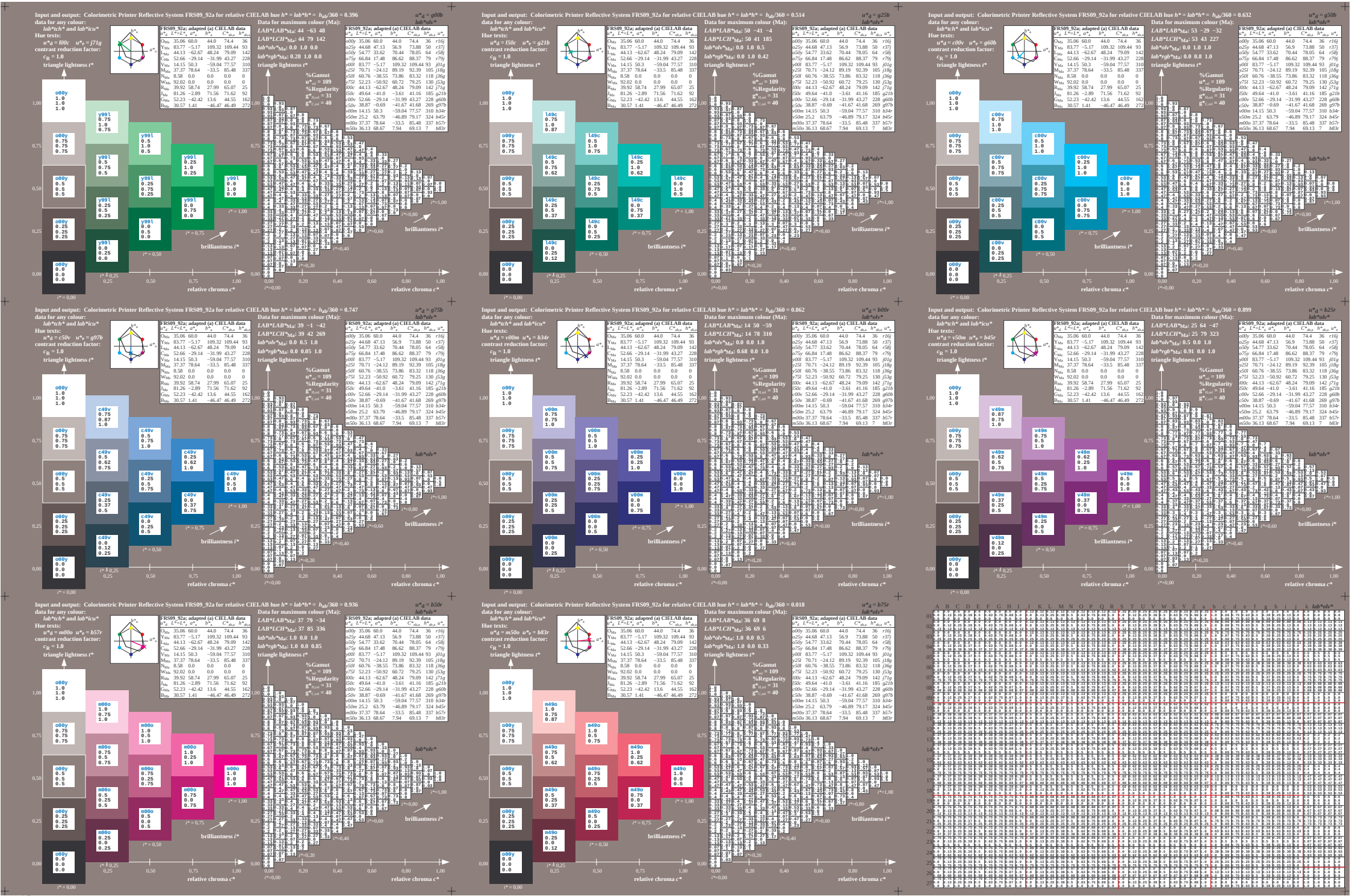
FRS09_92a; adapted (a) CIELAB data

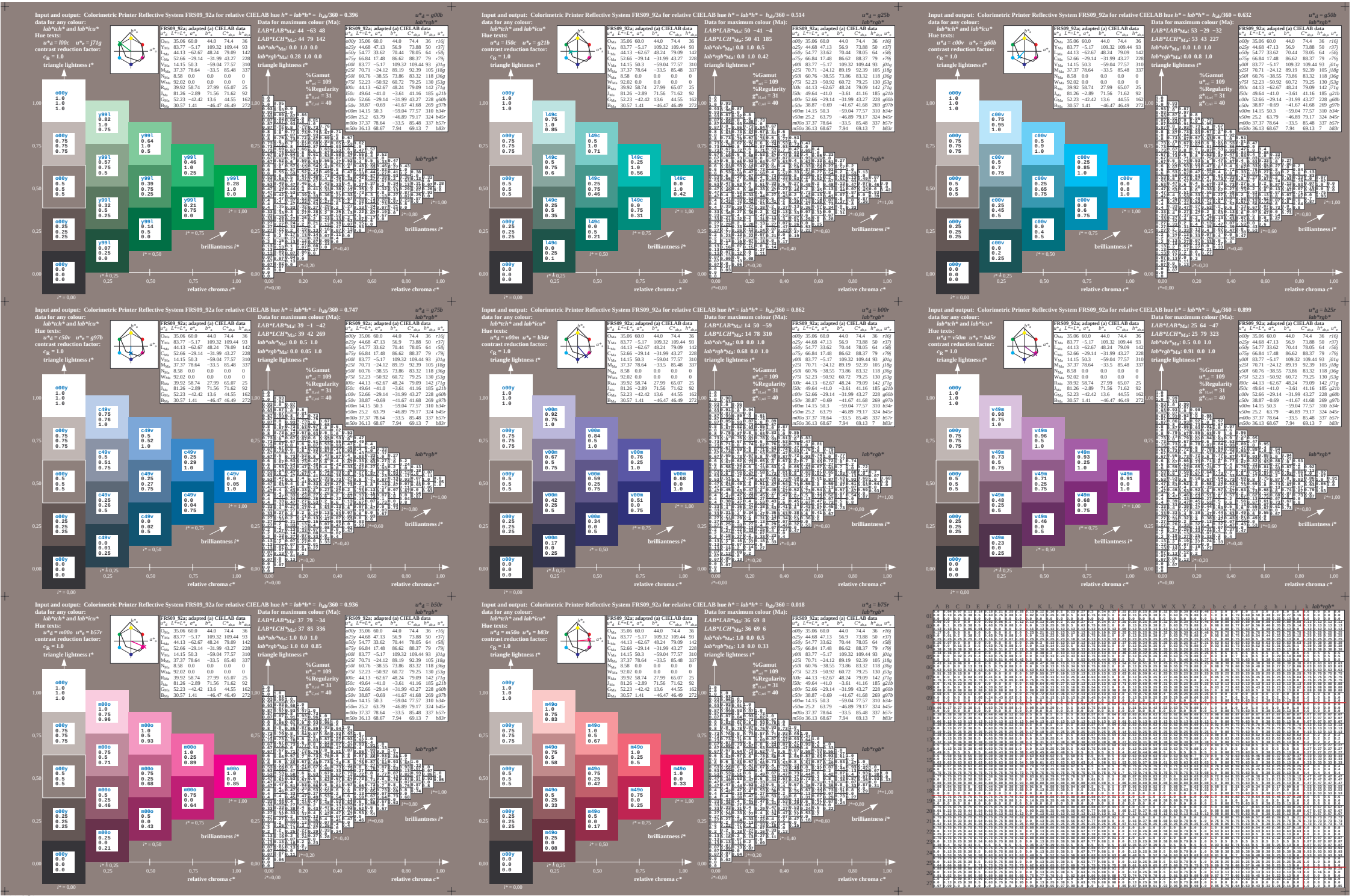
	L^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
O_{Ma}	35.06	60.0	44.0	74.4	36
Y_{Ma}	83.77	−5.17	109.32	109.44	93
L_{Ma}	44.13	−62.67	48.24	79.09	142
C_{Ma}	52.66	−29.14	−31.99	43.27	228
V_{Ma}	14.15	50.3	−59.04	77.57	310
M_{Ma}	37.37	78.64	−33.5	85.48	337
N_{Ma}	8.58	0.0	0.0	0.0	0
W_{Ma}	92.02	0.0	0.0	0.0	0
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^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_d	u^*_e
o00y	35.06	60.0	44.0	74.4	36
o25y	44.68	47.13	56.9	73.88	50
o50y	54.77	33.62	70.44	78.05	64
o75y	66.84	17.48	86.62	88.37	79
y00f	83.77	−5.17	109.32	109.44	93
y25f	70.71	−24.12	89.19	92.39	105
y50f	60.76	−38.55	73.86	83.32	118
y75f	52.23	−50.92	60.72	79.25	130
l00c	44.13	−62.67	48.24	79.09	142
l50c	49.64	−41.0	−3.61	41.16	185
c00v	52.66	−29.14	−31.99	43.27	228
c50v	38.87	−0.69	−41.67	41.68	269
v00m	14.15	50.3	−59.04	77.57	310
v50m	25.2	63.79	−46.89	79.17	324
m00o	37.37	78.64	−33.5	85.48	337
m50o	36.13	68.67	7.94	69.13	7

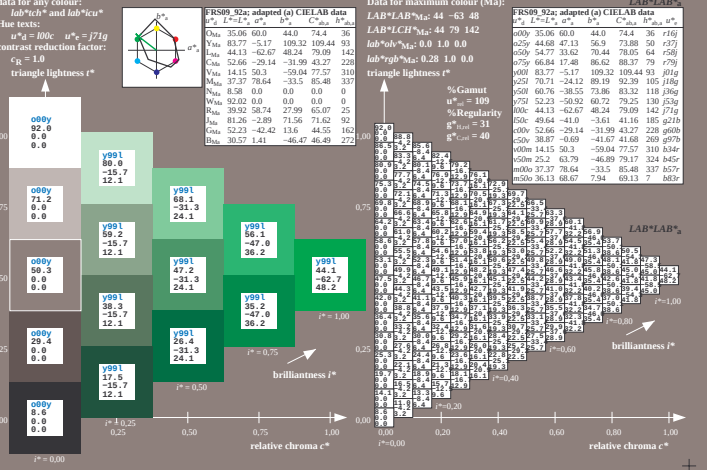




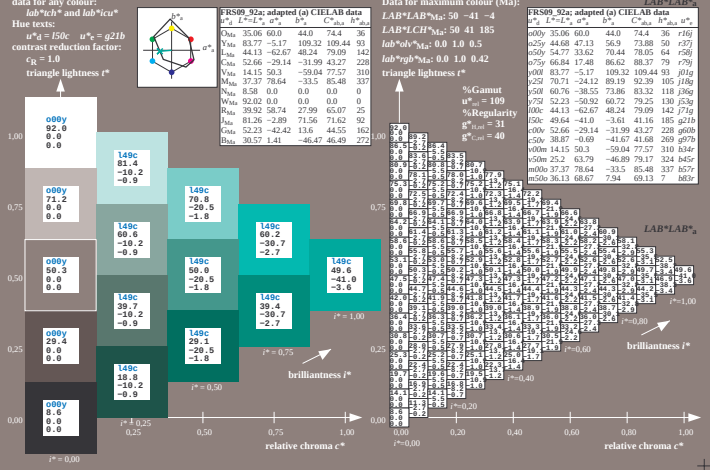

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/360 = 0.396
u*_d = g00b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = l00c u*_c = j71g
contrast reduction factor:
c_R = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*_Ma: 44 −63 48
LAB*LCH*_Ma: 44 79 142
lab*ob*_Ma: 0.0 1.0 0.0
lab*rgb*_Ma: 0.28 1.0 0.0
FRS09_92a; adapted (a) CIELAB data
%Gamut
u*_u = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
lab*ob*
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/360 = 0.514
u*_d = g25b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = l50c u*_c = 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*ob*_Ma: 0.0 1.0 0.5
lab*rgb*_Ma: 0.0 1.0 0.42
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/360 = 0.632
u*_d = g50b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = c00v u*_c = 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*ob*_Ma: 0.0 1.0 1.0
lab*rgb*_Ma: 0.0 0.8 1.0
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/360 = 0.747
u*_d = g75b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = c50v u*_c = 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*ob*_Ma: 0.0 0.5 1.0
lab*rgb*_Ma: 0.0 0.05 1.0
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/360 = 0.862
u*_d = b00r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = v00m u*_c = 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*ob*_Ma: 0.0 0.0 1.0
lab*rgb*_Ma: 0.68 0.0 1.0
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/360 = 0.899
u*_d = b25r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = v50m u*_c = 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*ob*_Ma: 0.5 0.0 1.0
lab*rgb*_Ma: 0.91 0.0 1.0
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/360 = 0.936
u*_d = b50r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = m00o u*_c = 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*ob*_Ma: 1.0 0.0 1.0
lab*rgb*_Ma: 1.0 0.0 0.85
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/360 = 0.018
u*_d = b75r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = m50o u*_c = 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*ob*_Ma: 1.0 0.0 0.5
lab*rgb*_Ma: 1.0 0.0 0.33


Input and output: Colorimetric Printer Reflective System FRS09_92a 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
FRS09_92a; adapted (a) CIELAB data
%Gamut
u*= 109
%Regularity
g*H,rel = 31
g*C,rel = 40
lab*rgb*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92a 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*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_92a 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*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_92a 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*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_92a 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*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_92a 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*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_92a 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*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_92a 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*olv*Ma: 1.0 0.0 0.5
lab*rgb*Ma: 1.0 0.0 0.33

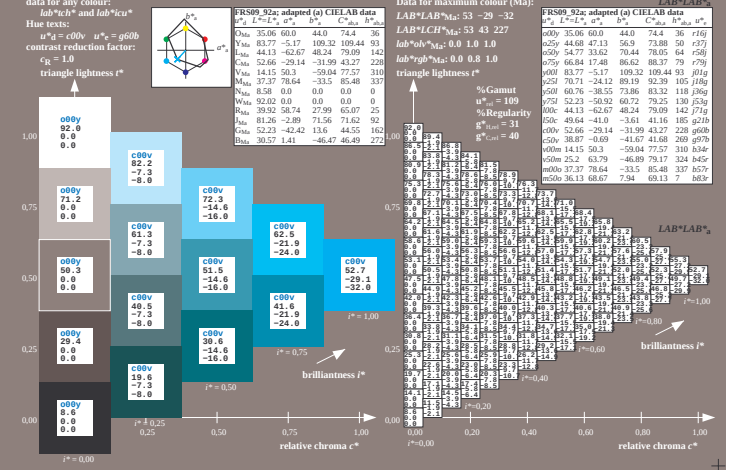
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.396$ $u^*_d = g00b$ $LAB^*LAB^*_a$
data for any colour: lab^*ch^* and lab^*icu^*
Hue texts: $u^*_d = l00c$ $u^*_e = j71g$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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 $u^*_{gm} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$
FRS09_92a; adapted (a) CIELAB data



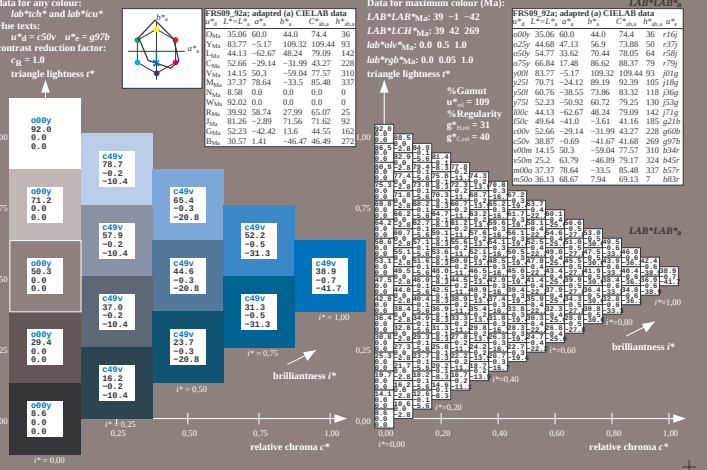
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.514$ $u^*_d = g25b$ $LAB^*LAB^*_a$
data for any colour: lab^*ch^* and lab^*icu^*
Hue texts: $u^*_d = l50c$ $u^*_e = g21b$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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 $u^*_{gm} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$
FRS09_92a; adapted (a) CIELAB data



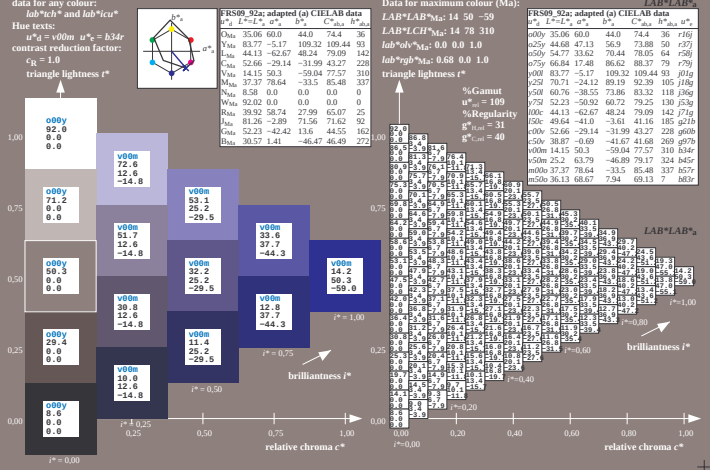
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.632$ $u^*_d = g50b$ $LAB^*LAB^*_a$
data for any colour: lab^*ch^* and lab^*icu^*
Hue texts: $u^*_d = c00v$ $u^*_e = g60b$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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 $u^*_{gm} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$
FRS09_92a; adapted (a) CIELAB data



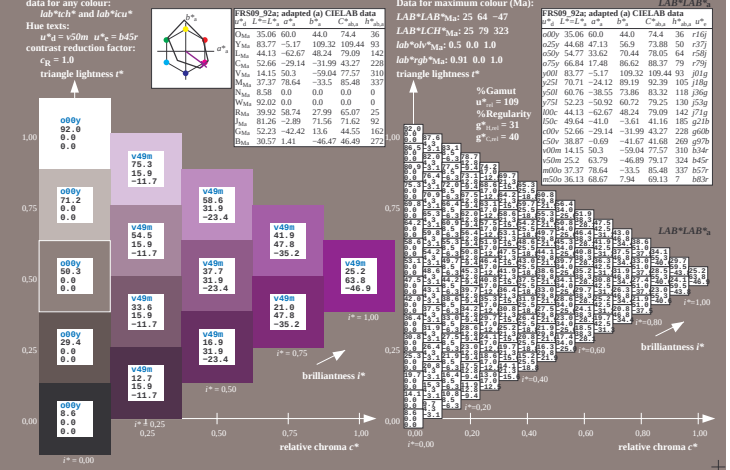
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.747$ $u^*_d = g75b$ $LAB^*LAB^*_a$
data for any colour: lab^*ch^* and lab^*icu^*
Hue texts: $u^*_d = c50v$ $u^*_e = g97b$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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 $u^*_{gm} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$
FRS09_92a; adapted (a) CIELAB data



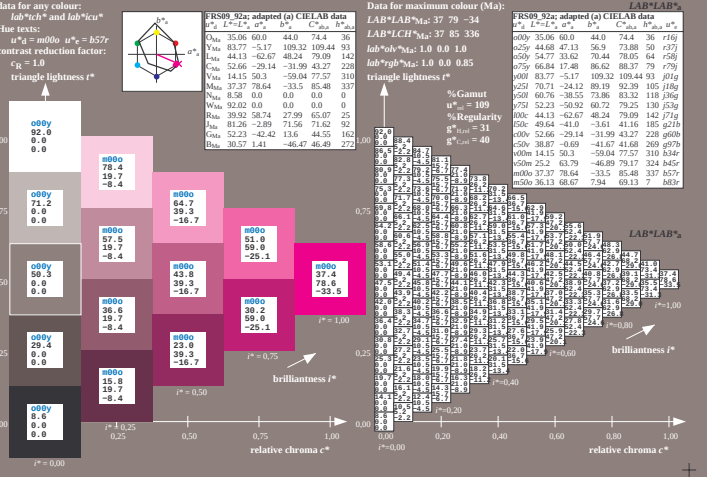
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.862$ $u^*_d = b00r$ $LAB^*LAB^*_a$
data for any colour: lab^*ch^* and lab^*icu^*
Hue texts: $u^*_d = v00m$ $u^*_e = b34r$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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 $u^*_{gm} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$
FRS09_92a; adapted (a) CIELAB data



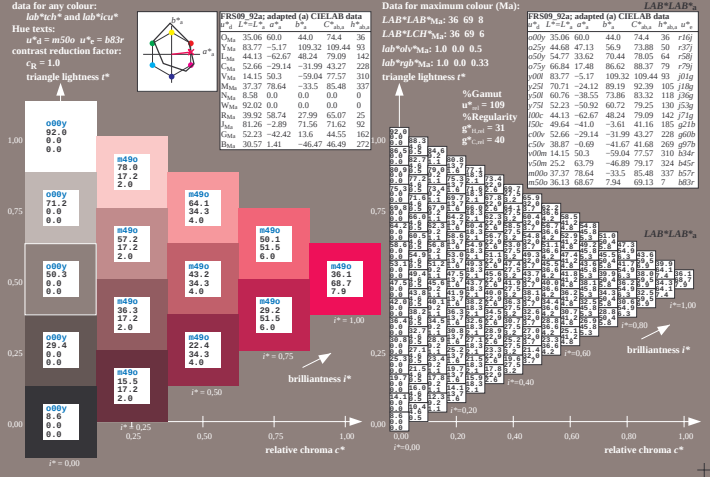
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.899$ $u^*_d = b25r$ $LAB^*LAB^*_a$
data for any colour: lab^*ch^* and lab^*icu^*
Hue texts: $u^*_d = v50m$ $u^*_e = b45r$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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 $u^*_{gm} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$
FRS09_92a; adapted (a) CIELAB data

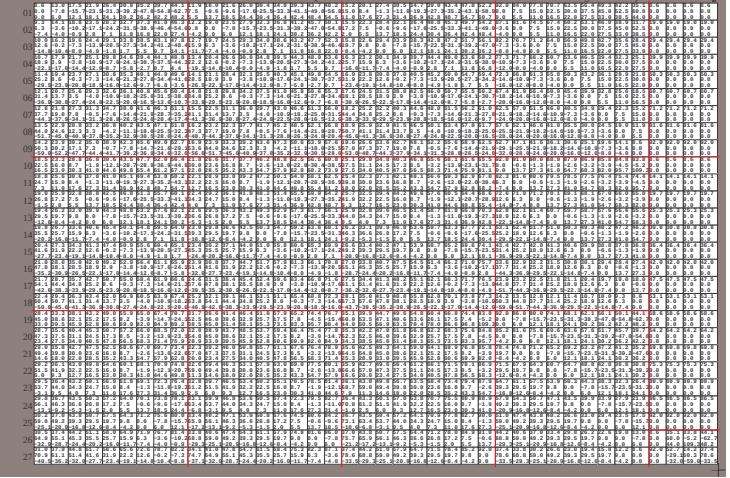


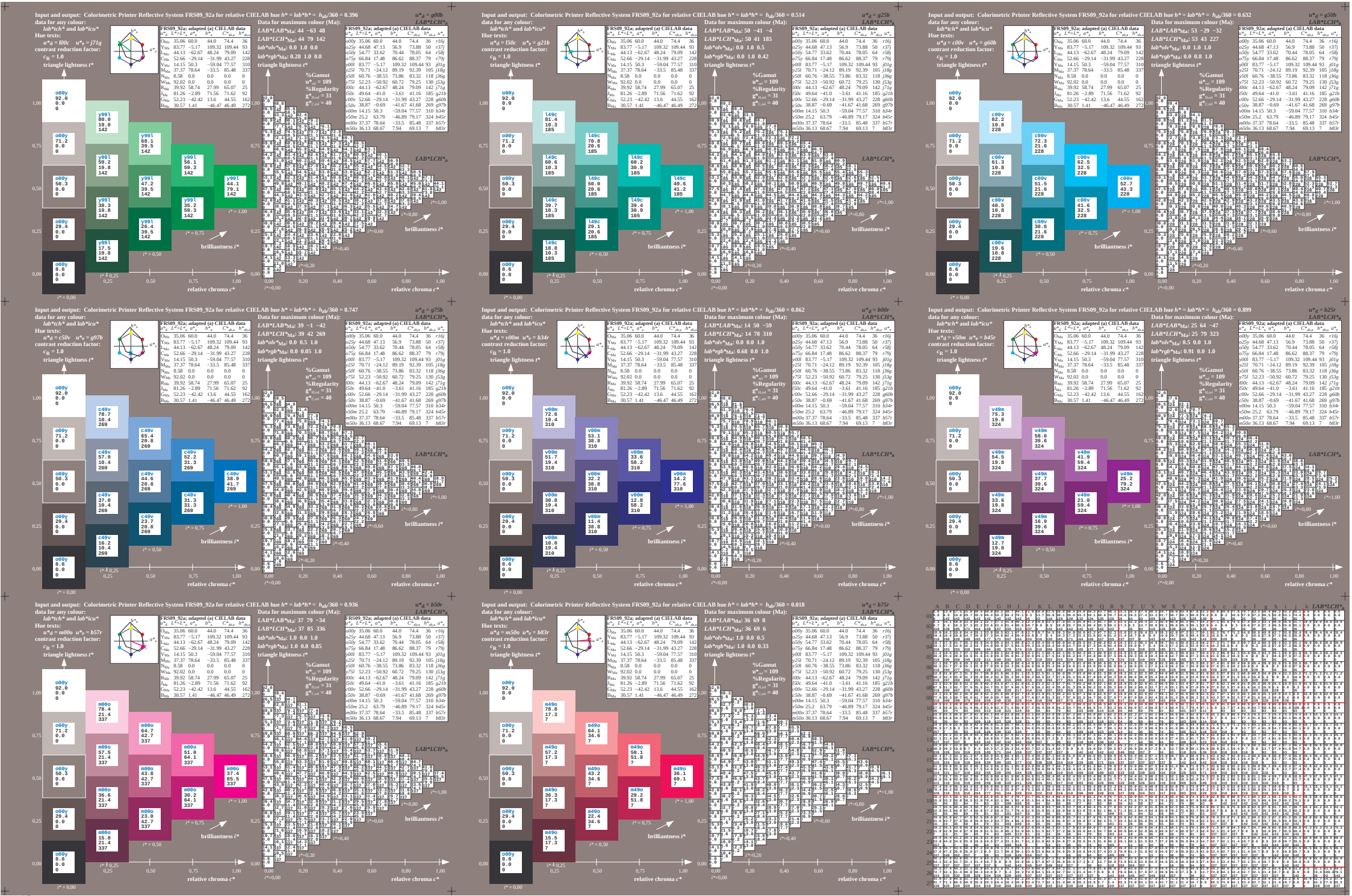
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.936$ $u^*_d = b50r$ $LAB^*LAB^*_a$
data for any colour: lab^*ch^* and lab^*icu^*
Hue texts: $u^*_d = m00o$ $u^*_e = b57r$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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 $u^*_{gm} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$
FRS09_92a; adapted (a) CIELAB data

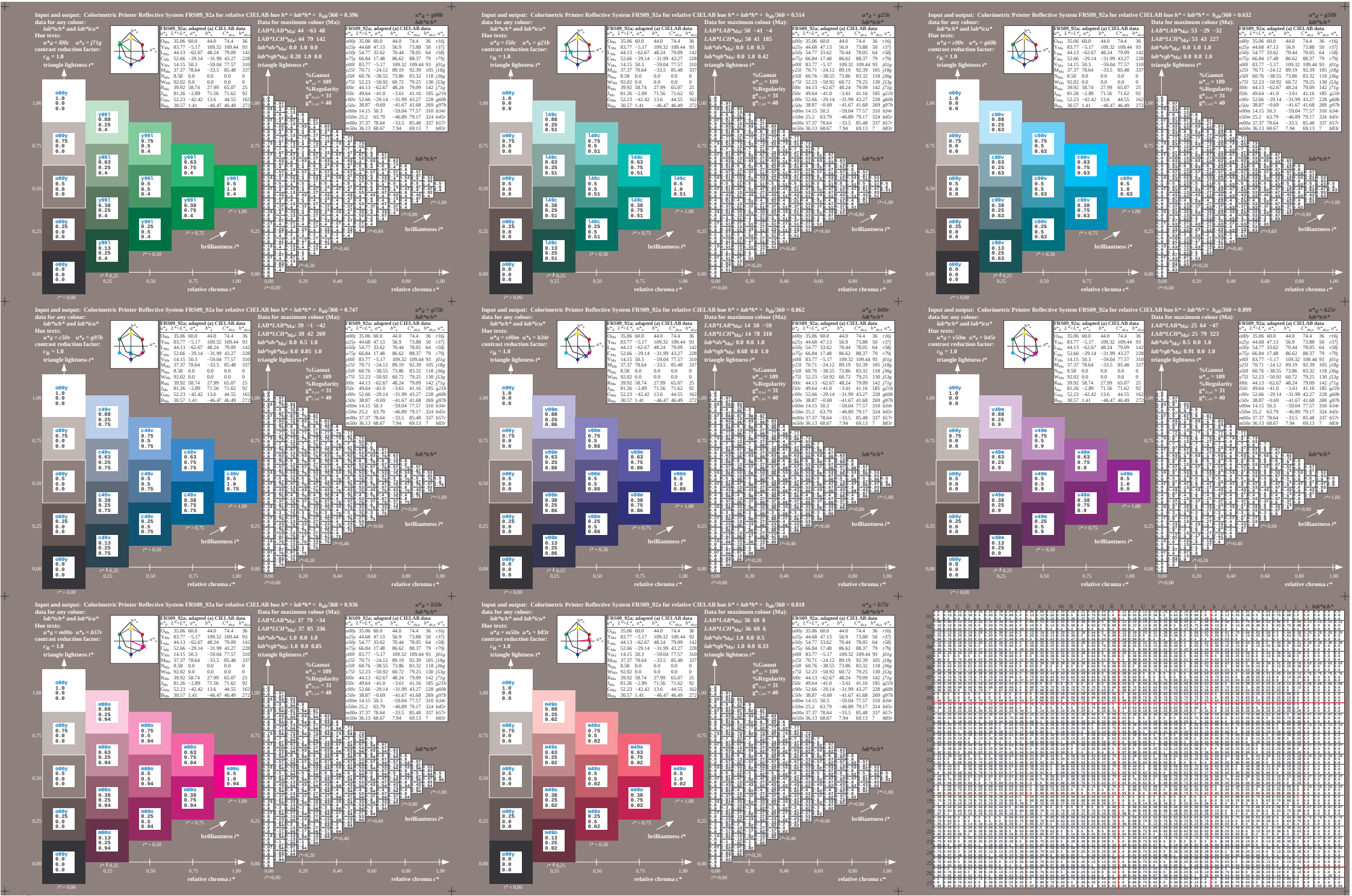


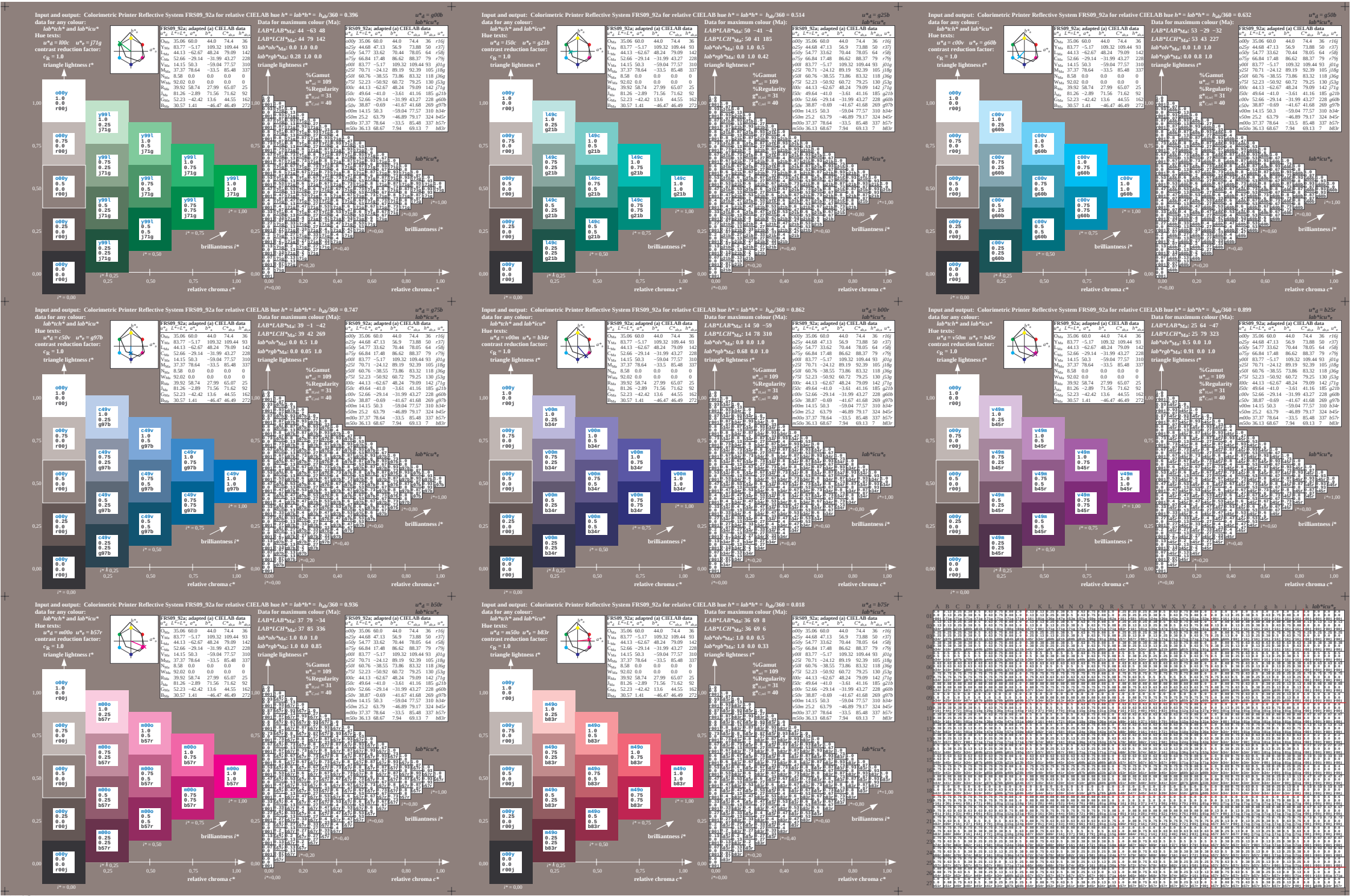
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.018$ $u^*_d = b75r$ $LAB^*LAB^*_a$
data for any colour: lab^*ch^* and lab^*icu^*
Hue texts: $u^*_d = m50o$ $u^*_e = b83r$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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 $u^*_{gm} = 109$ %Regularity $g^*_{H,rel} = 31$ $g^*_{C,rel} = 40$
FRS09_92a; adapted (a) CIELAB data

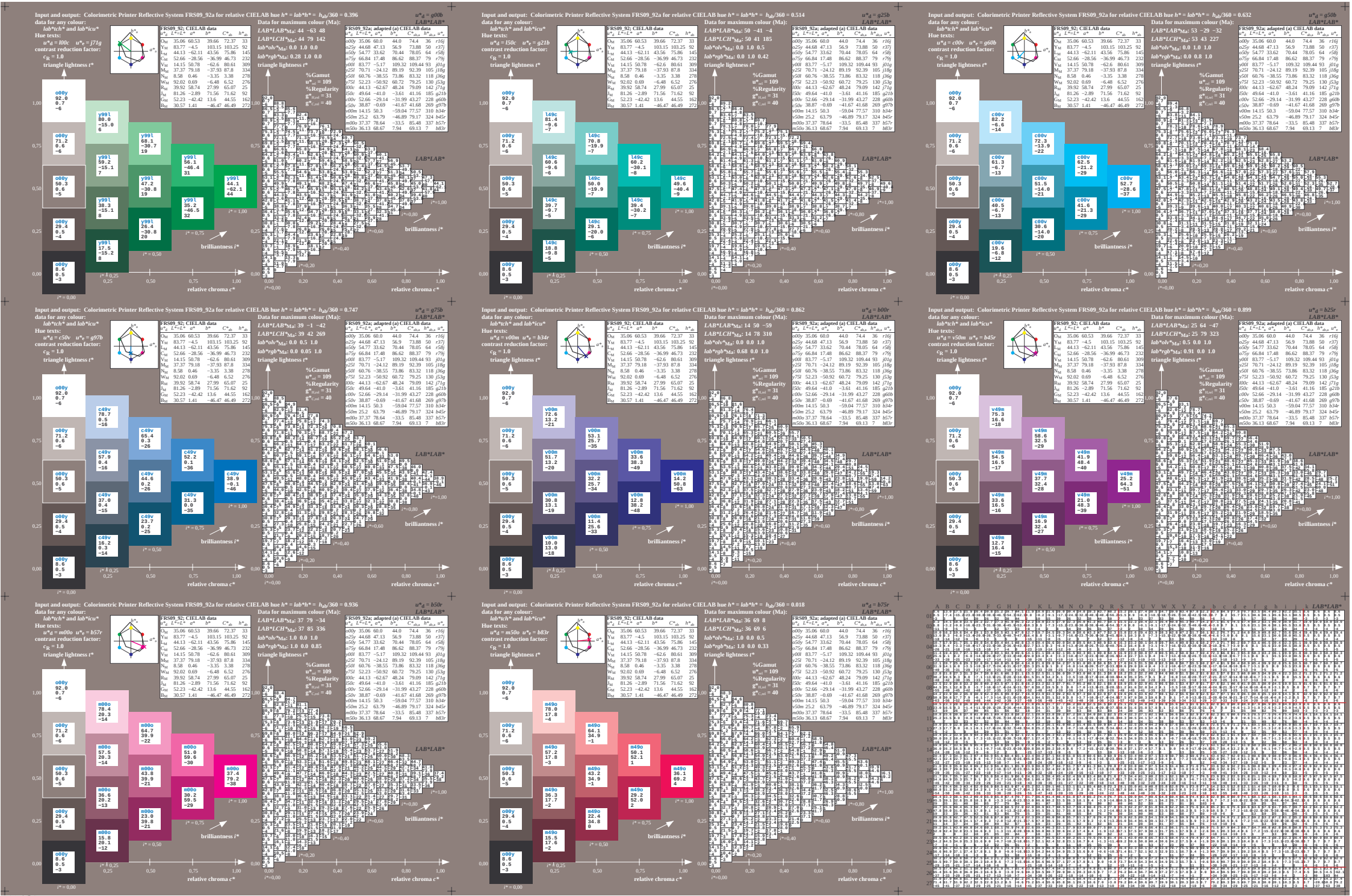


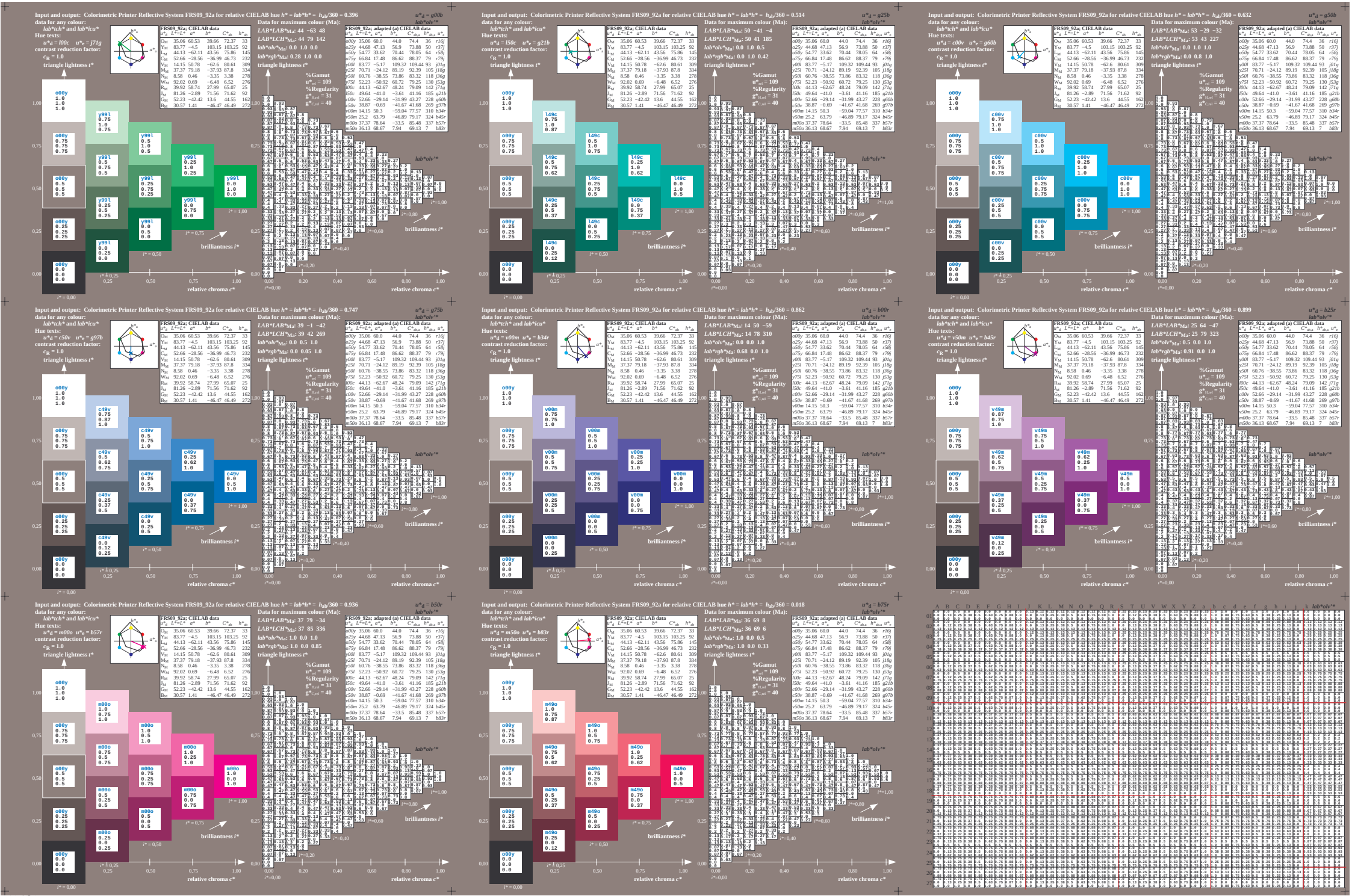



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = hab/360 = 0.396
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l00c u*e = j71g
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 44 −63 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 = l00c
LAB*LCH*a
FRS09_92a; adapted (a) CIELAB data
%Gamut
u*e = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92a 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*LCH*a
FRS09_92a; adapted (a) CIELAB data
%Gamut
u*e = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92a 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*LCH*a
FRS09_92a; adapted (a) CIELAB data
%Gamut
u*e = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92a 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*LCH*a
FRS09_92a; adapted (a) CIELAB data
%Gamut
u*e = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92a 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*LCH*a
FRS09_92a; adapted (a) CIELAB data
%Gamut
u*e = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92a 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*LCH*a
FRS09_92a; adapted (a) CIELAB data
%Gamut
u*e = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92a 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*LCH*a
FRS09_92a; adapted (a) CIELAB data
%Gamut
u*e = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92a 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*LCH*a
FRS09_92a; adapted (a) CIELAB data
%Gamut
u*e = 109
%Regularity
g*H,rel = 31
g*C,rel = 40
brilliantness j*
relative chroma c*
LAB*LCH*a


Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 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_92a; adapted (a) CIELAB data
%Gamut
u*_u = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
lab*ch*
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 1.0
triangle lightness t*
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_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 1.0
triangle lightness t*
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_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 1.0
triangle lightness t*
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_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 1.0
triangle lightness t*
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_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 1.0
triangle lightness t*
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_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 1.0
triangle lightness t*
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_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 1.0
triangle lightness t*
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


Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_Lab/360 = 0.396
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l00c u*c = 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*ovl*_Ma: 0.0 1.0 0.0
lab*rgb*_Ma: 0.28 1.0 0.0
triangle lightness t*
%Gamut
u*_u = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
u*d = g00b
lab*icu*_c
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_Lab/360 = 0.514
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l50c u*c = 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*ovl*_Ma: 0.0 1.0 0.5
lab*rgb*_Ma: 0.0 1.0 0.42
triangle lightness t*
%Gamut
u*_u = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
u*d = g25b
lab*icu*_c
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_Lab/360 = 0.632
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = c00v u*c = 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*ovl*_Ma: 0.0 1.0 1.0
lab*rgb*_Ma: 0.0 0.8 1.0
triangle lightness t*
%Gamut
u*_u = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
u*d = g50b
lab*icu*_c
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_Lab/360 = 0.747
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = c50v u*c = 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*ovl*_Ma: 0.0 0.5 1.0
lab*rgb*_Ma: 0.0 0.05 1.0
triangle lightness t*
%Gamut
u*_u = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
u*d = g75b
lab*icu*_c
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_Lab/360 = 0.862
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = v00m u*c = 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*ovl*_Ma: 0.0 0.0 1.0
lab*rgb*_Ma: 0.68 0.0 1.0
triangle lightness t*
%Gamut
u*_u = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
u*d = b00r
lab*icu*_c
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_Lab/360 = 0.899
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = v50m u*c = 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*ovl*_Ma: 0.5 0.0 1.0
lab*rgb*_Ma: 0.91 0.0 1.0
triangle lightness t*
%Gamut
u*_u = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
u*d = b25r
lab*icu*_c
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_Lab/360 = 0.936
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = m00o u*c = 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*ovl*_Ma: 1.0 0.0 1.0
lab*rgb*_Ma: 1.0 0.0 0.85
triangle lightness t*
%Gamut
u*_u = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
u*d = b50r
lab*icu*_c
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_Lab/360 = 0.018
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = m50o u*c = 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*ovl*_Ma: 1.0 0.0 0.5
lab*rgb*_Ma: 1.0 0.0 0.33
triangle lightness t*
%Gamut
u*_u = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
u*d = b75r
lab*icu*_c
FRS09_92a; adapted (a) CIELAB data
relative chroma c*
brilliantness j*
i* = 0,00
i* = 0,25
i* = 0,50
i* = 0,75
i* = 1,00
j* = 0,00
j* = 0,20
j* = 0,40
j* = 0,60
j* = 0,80
j* = 1,00


Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/360 = 0.396
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*ov*_Ma: 0.0 1.0 0.0
lab*rgb*_Ma: 0.28 1.0 0.0
triangle brightness t*
u*d = g00b
LAB*LAB*
FRS09_92; CIELAB data
FRS09_92a; adapted (a) CIELAB data
%Gamut
u*_ab = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
LAB*LAB*
brilliantness j*
relative chroma c*


Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 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
FRS09_92a: CIELAB data
FRS09_92a: adapted (a) CIELAB data
%Gamut
u*_ab = 109
%Regularity
g*_H,rel = 31
g*_C,rel = 40
lab*ob/v*
relative chroma c*
brilliantness j*
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 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
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 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
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 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
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 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
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 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
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 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
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue h* = lab*h* = h_ab/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_R = 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

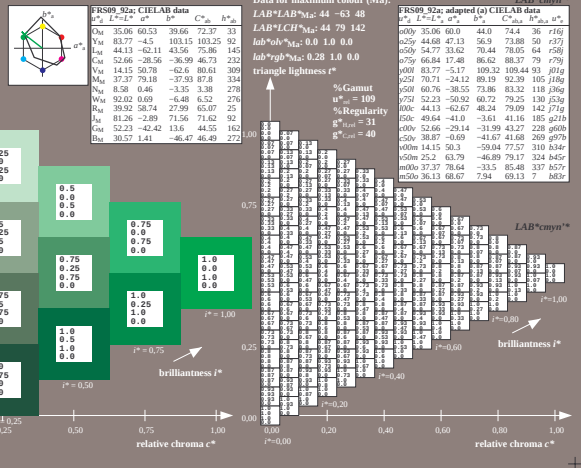
Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.396$ $u^*_d = g00b$ LAB*cmyn'*

data for any colour: *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*ovl**$_{Ma}$: 0.0 1.0 0.0 *lab*rgb**$_{Ma}$: 0.28 1.0 0.0



Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.514$ $u^*_d = g25b$ LAB*cmyn'*

data for any colour: *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*ovl**$_{Ma}$: 0.0 1.0 0.5 *lab*rgb**$_{Ma}$: 0.0 1.0 0.42

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.632$ $u^*_d = g50b$ LAB*cmyn'*

data for any colour: *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*ovl**$_{Ma}$: 0.0 1.0 1.0 *lab*rgb**$_{Ma}$: 0.0 0.8 1.0

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.747$ $u^*_d = g75b$ LAB*cmyn'*

data for any colour: *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*ovl**$_{Ma}$: 0.0 0.5 1.0 *lab*rgb**$_{Ma}$: 0.0 0.05 1.0

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.862$ $u^*_d = b00r$ LAB*cmyn'*

data for any colour: *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*ovl**$_{Ma}$: 0.0 0.0 1.0 *lab*rgb**$_{Ma}$: 0.68 0.0 1.0

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.899$ $u^*_d = b25r$ LAB*cmyn'*

data for any colour: *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*ovl**$_{Ma}$: 0.5 0.0 1.0 *lab*rgb**$_{Ma}$: 0.91 0.0 1.0

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.936$ $u^*_d = b50r$ LAB*cmyn'*

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

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

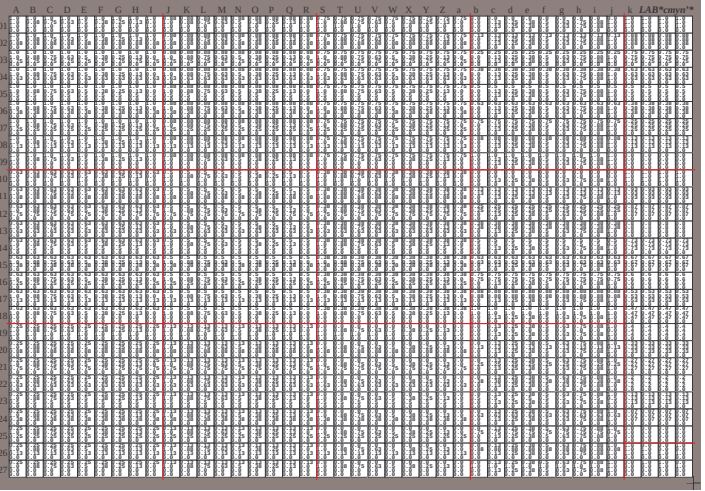
contrast reduction factor: $c_R = 1.0$

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

Input and output: Colorimetric Printer Reflective System FRS09_92a for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.018$ $u^*_d = b75r$ LAB*cmyn'*

data for any colour: *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*ovl**$_{Ma}$: 1.0 0.0 0.5 *lab*rgb**$_{Ma}$: 1.0 0.0 0.33