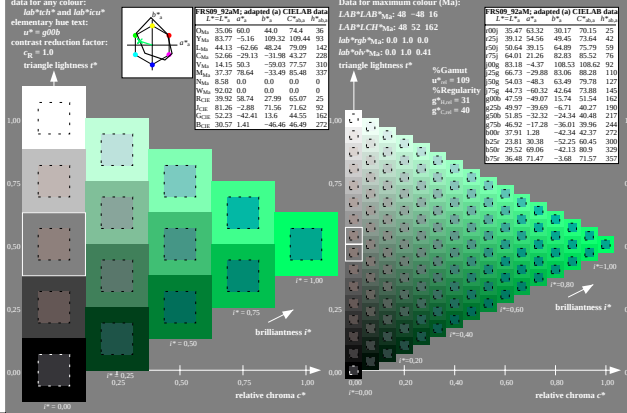
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 162/360 = 0.451$ $u^* = g00b$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = g00b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 48 −48 16
$LAB^*LCH^*_{Ma}$: 48 52 162
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
$lab^*ob^*_{Ma}$: 0.0 1.0 0.41

%Gamut $u^*_{Gut} = 109$
%Regularity $g^*_{Ut} = 31$
$g^*_{Cut} = 40$

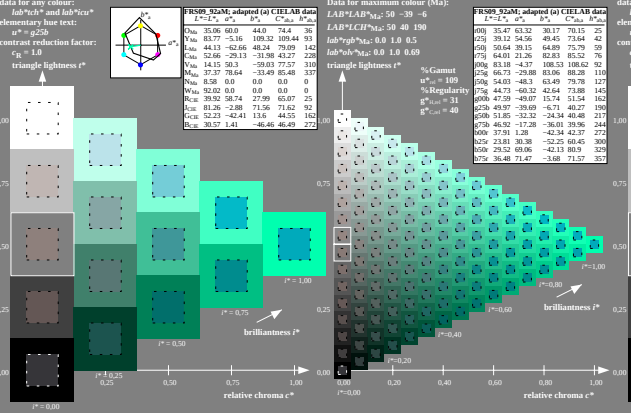


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 190/360 = 0.527$ $u^* = g25b$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = g25b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 50 −39 −6
$LAB^*LCH^*_{Ma}$: 50 40 190
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.5
$lab^*ob^*_{Ma}$: 0.0 1.0 0.69

%Gamut $u^*_{Gut} = 109$
%Regularity $g^*_{Ut} = 31$
$g^*_{Cut} = 40$

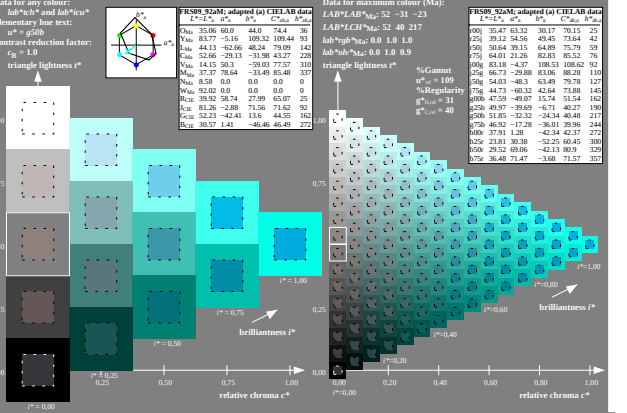


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 217/360 = 0.603$ $u^* = g50b$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = g50b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 52 −31 −23
$LAB^*LCH^*_{Ma}$: 52 40 217
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
$lab^*ob^*_{Ma}$: 0.0 1.0 0.9

%Gamut $u^*_{Gut} = 109$
%Regularity $g^*_{Ut} = 31$
$g^*_{Cut} = 40$

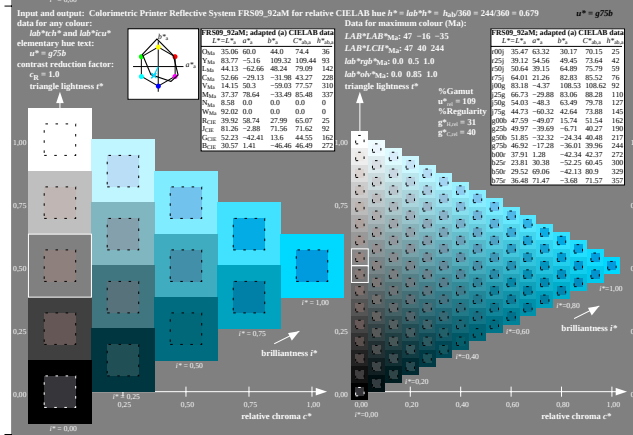


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 244/360 = 0.679$ $u^* = g75b$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = g75b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 47 −16 −35
$LAB^*LCH^*_{Ma}$: 47 40 244
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
$lab^*ob^*_{Ma}$: 0.0 0.85 1.0

%Gamut $u^*_{Gut} = 109$
%Regularity $g^*_{Ut} = 31$
$g^*_{Cut} = 40$

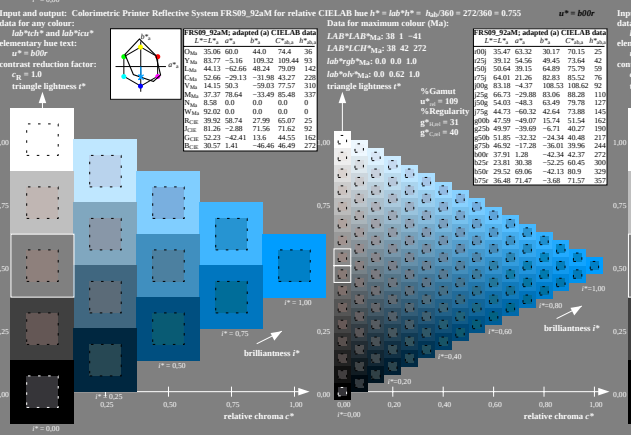


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 272/360 = 0.755$ $u^* = b00r$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = b00r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 38 1 −41
$LAB^*LCH^*_{Ma}$: 38 42 272
$lab^*rgb^*_{Ma}$: 0.0 0.0 1.0
$lab^*ob^*_{Ma}$: 0.0 0.62 1.0

%Gamut $u^*_{Gut} = 109$
%Regularity $g^*_{Ut} = 31$
$g^*_{Cut} = 40$

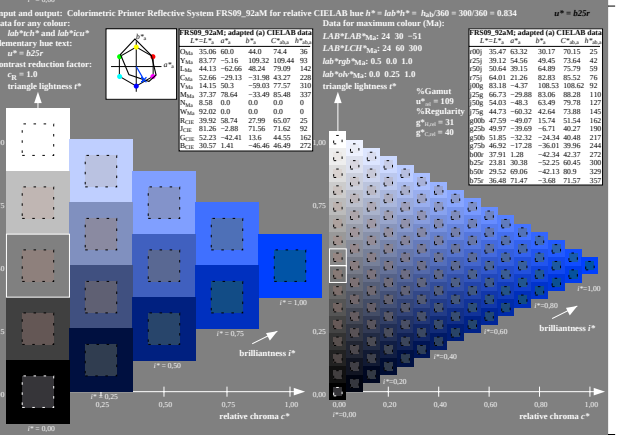


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 300/360 = 0.834$ $u^* = b25r$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = b25r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 24 30 −51
$LAB^*LCH^*_{Ma}$: 24 60 300
$lab^*rgb^*_{Ma}$: 0.5 0.0 1.0
$lab^*ob^*_{Ma}$: 0.0 0.25 1.0

%Gamut $u^*_{Gut} = 109$
%Regularity $g^*_{Ut} = 31$
$g^*_{Cut} = 40$

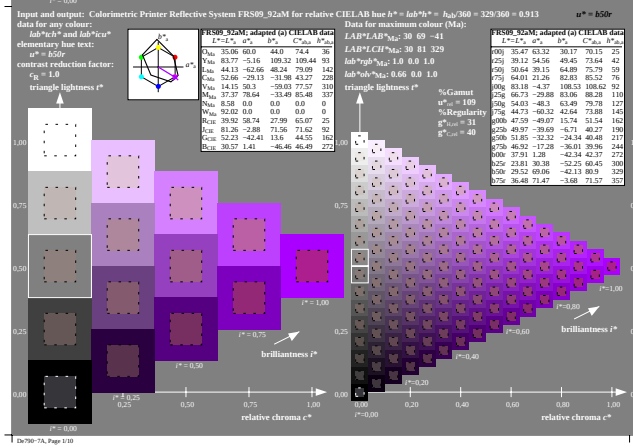


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 329/360 = 0.913$ $u^* = b50r$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = b50r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 30 69 −41
$LAB^*LCH^*_{Ma}$: 30 81 329
$lab^*rgb^*_{Ma}$: 1.0 0.0 1.0
$lab^*ob^*_{Ma}$: 0.66 0.0 1.0

%Gamut $u^*_{Gut} = 109$
%Regularity $g^*_{Ut} = 31$
$g^*_{Cut} = 40$

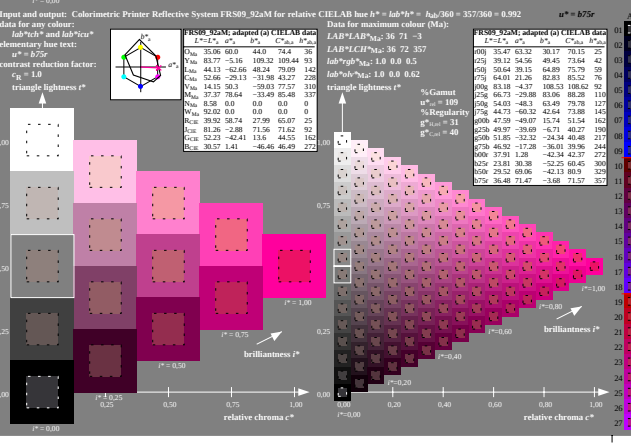


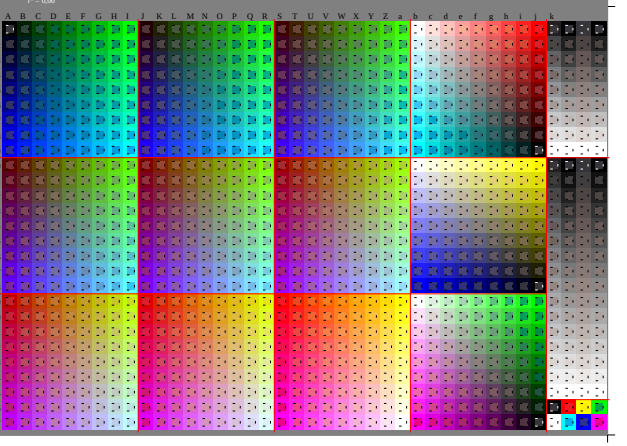
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 357/360 = 0.992$ $u^* = b75r$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = b75r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 36 71 −3
$LAB^*LCH^*_{Ma}$: 36 72 357
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.5
$lab^*ob^*_{Ma}$: 1.0 0.0 0.62

%Gamut $u^*_{Gut} = 109$
%Regularity $g^*_{Ut} = 31$
$g^*_{Cut} = 40$





Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 162/360 = 0.451$ $u^* = g00b$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = g00b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

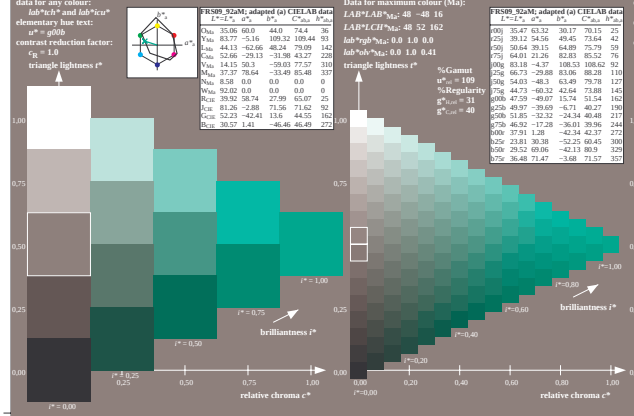
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 48 −48 16
$LAB^*LCH^*_{Ma}$: 48 52 162
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
$lab^*oh^*_{Ma}$: 0.0 1.0 0.41

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00b	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 190/360 = 0.527$ $u^* = g25b$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = g25b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

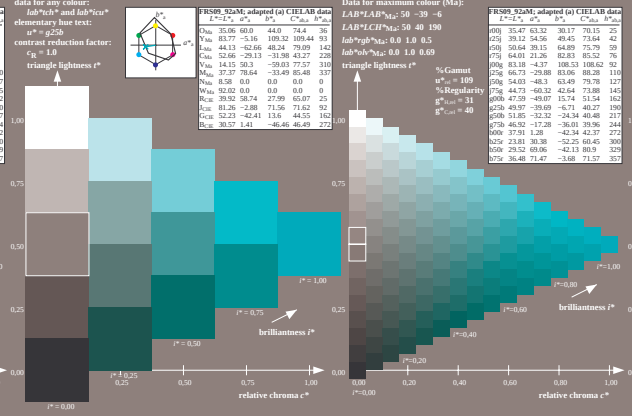
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 50 −39 −6
$LAB^*LCH^*_{Ma}$: 50 40 190
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.5
$lab^*oh^*_{Ma}$: 0.0 1.0 0.69

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00b	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 217/360 = 0.603$ $u^* = g50b$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = g50b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

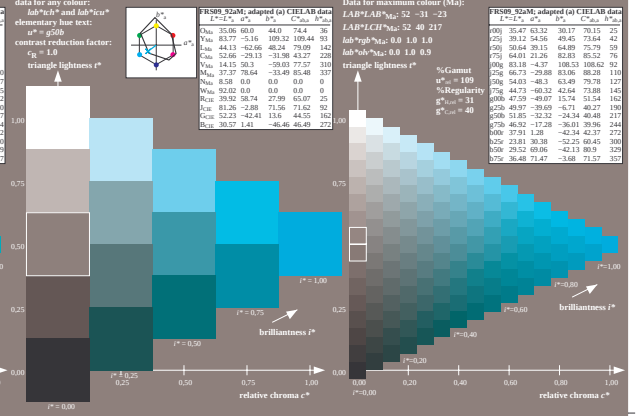
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 52 −31 −23
$LAB^*LCH^*_{Ma}$: 52 40 217
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
$lab^*oh^*_{Ma}$: 0.0 1.0 0.9

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00b	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 244/360 = 0.679$ $u^* = g75b$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = g75b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

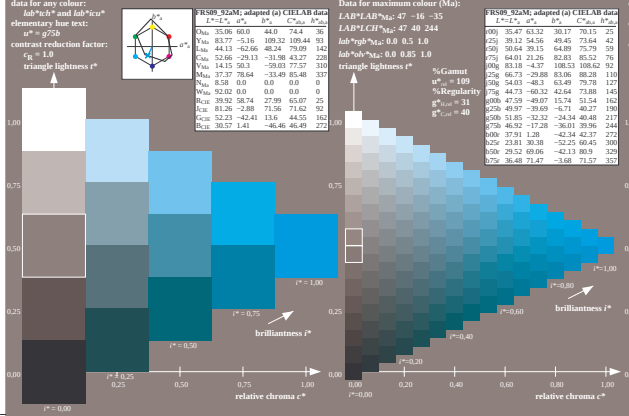
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 47 −16 −35
$LAB^*LCH^*_{Ma}$: 47 40 244
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
$lab^*oh^*_{Ma}$: 0.0 0.85 1.0

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00b	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 272/360 = 0.755$ $u^* = b00r$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = b00r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

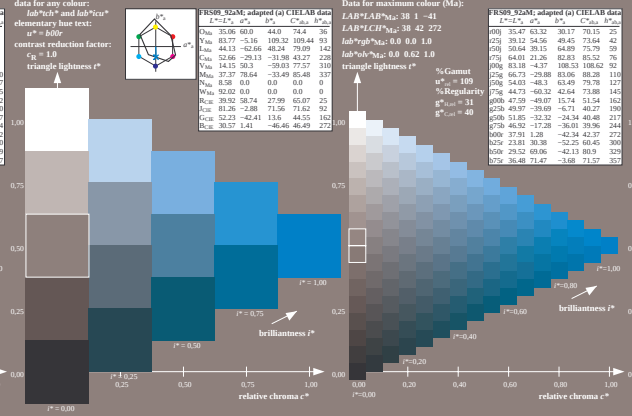
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 38 1 −41
$LAB^*LCH^*_{Ma}$: 38 42 272
$lab^*rgb^*_{Ma}$: 0.0 0.0 1.0
$lab^*oh^*_{Ma}$: 0.0 0.62 1.0

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00b	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 300/360 = 0.834$ $u^* = b25r$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = b25r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

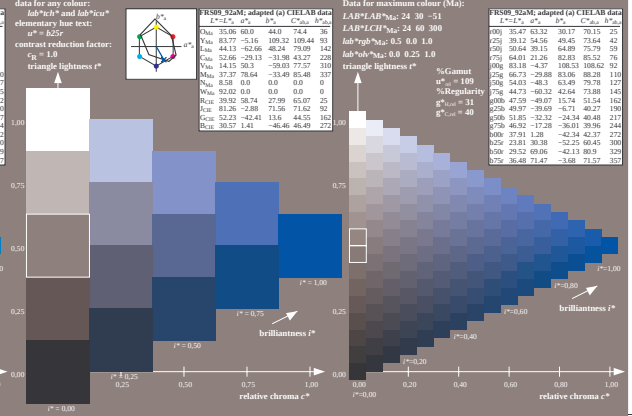
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 24 30 −51
$LAB^*LCH^*_{Ma}$: 24 60 300
$lab^*rgb^*_{Ma}$: 0.5 0.0 1.0
$lab^*oh^*_{Ma}$: 0.0 0.25 1.0

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00b	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 329/360 = 0.913$ $u^* = b50r$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = b50r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

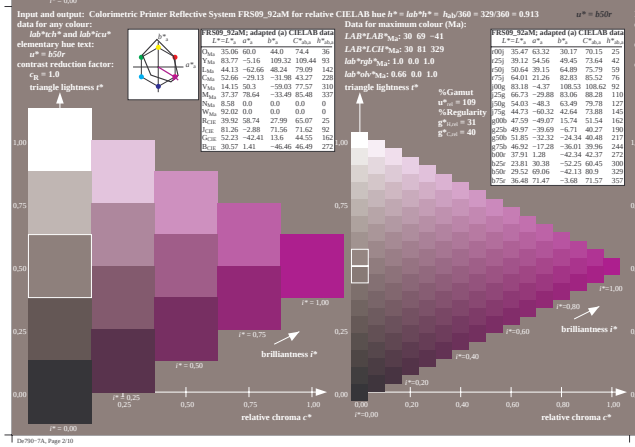
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 30 69 −41
$LAB^*LCH^*_{Ma}$: 30 81 329
$lab^*rgb^*_{Ma}$: 1.0 0.0 1.0
$lab^*oh^*_{Ma}$: 0.66 0.0 1.0

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00b	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 357/360 = 0.992$ $u^* = b75r$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = b75r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

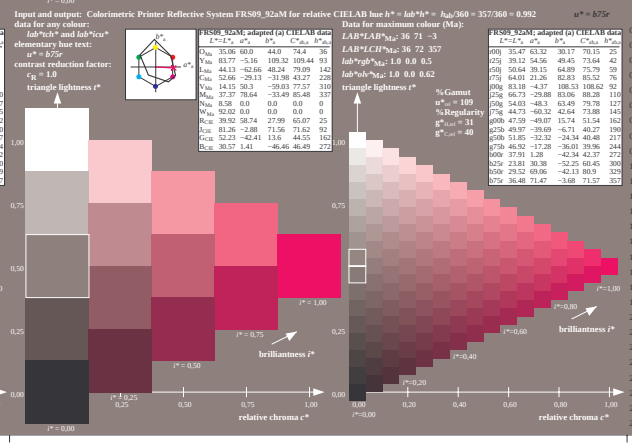
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 36 71 −3
$LAB^*LCH^*_{Ma}$: 36 72 357
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.5
$lab^*oh^*_{Ma}$: 1.0 0.0 0.62

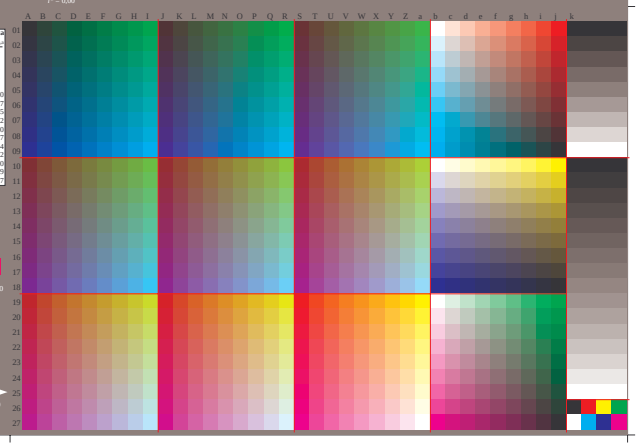
FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00b	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357





Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 162/360 = 0.451$ $u^* = g60b$

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

elementary hue text: $u^* = g60b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 48 −48 16

$LAB^*LCH^*_{Ma}$: 48 52 162

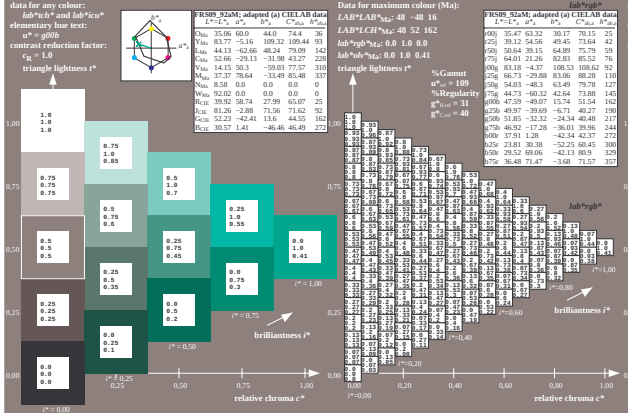
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0

$lab^*ch^*_{Ma}$: 0.0 1.0 0.41

%Gamut $u^*_{Gmt} = 109$

%Regularity $g^*_{Rgl} = 31$

$g^*_{Crd} = 40$



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 190/360 = 0.527$ $u^* = g25b$

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

elementary hue text: $u^* = g25b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 50 −39 −6

$LAB^*LCH^*_{Ma}$: 50 40 190

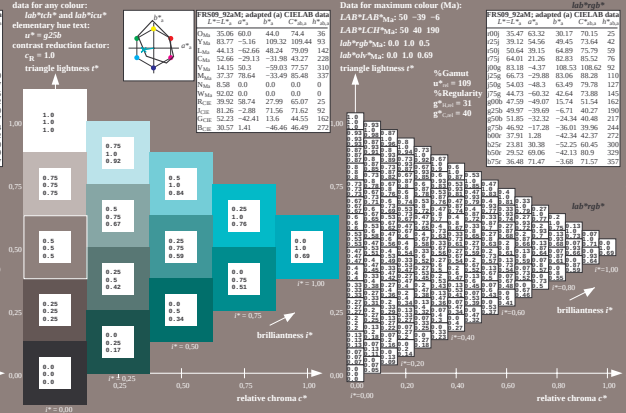
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.5

$lab^*ch^*_{Ma}$: 0.0 1.0 0.69

%Gamut $u^*_{Gmt} = 109$

%Regularity $g^*_{Rgl} = 31$

$g^*_{Crd} = 40$



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 217/360 = 0.603$ $u^* = g50b$

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

elementary hue text: $u^* = g50b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 52 −31 −23

$LAB^*LCH^*_{Ma}$: 52 40 217

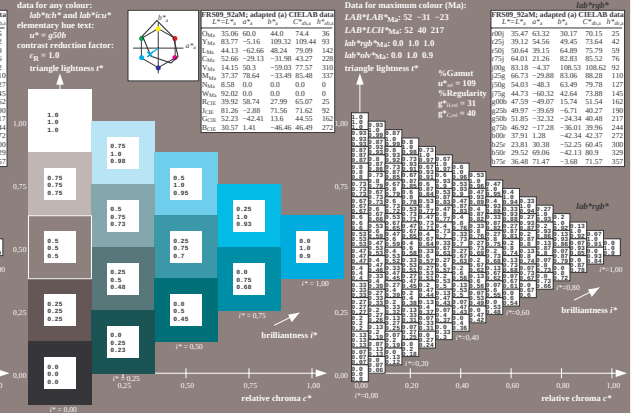
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0

$lab^*ch^*_{Ma}$: 0.0 1.0 0.9

%Gamut $u^*_{Gmt} = 109$

%Regularity $g^*_{Rgl} = 31$

$g^*_{Crd} = 40$



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 244/360 = 0.679$ $u^* = g75b$

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

elementary hue text: $u^* = g75b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 47 −16 −35

$LAB^*LCH^*_{Ma}$: 47 40 244

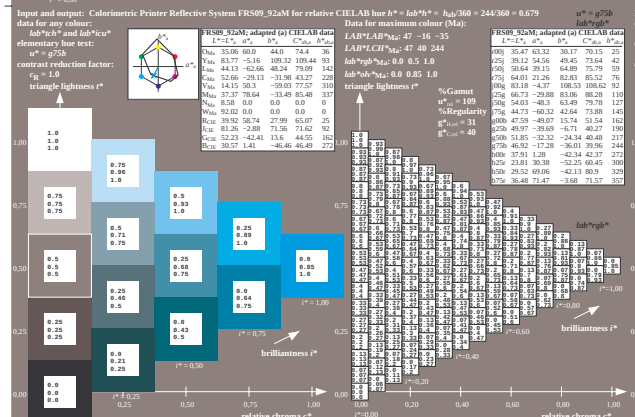
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0

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

%Gamut $u^*_{Gmt} = 109$

%Regularity $g^*_{Rgl} = 31$

$g^*_{Crd} = 40$



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 272/360 = 0.755$ $u^* = b00r$

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

elementary hue text: $u^* = b00r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 38 1 −41

$LAB^*LCH^*_{Ma}$: 38 42 272

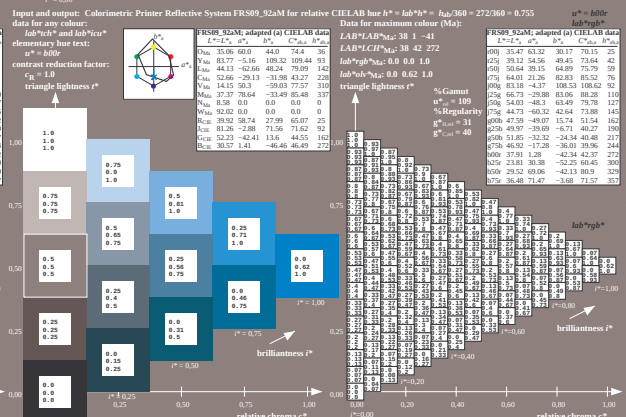
$lab^*rgb^*_{Ma}$: 0.0 0.0 1.0

$lab^*ch^*_{Ma}$: 0.0 0.62 1.0

%Gamut $u^*_{Gmt} = 109$

%Regularity $g^*_{Rgl} = 31$

$g^*_{Crd} = 40$



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 300/360 = 0.834$ $u^* = b25r$

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

elementary hue text: $u^* = b25r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 24 30 −51

$LAB^*LCH^*_{Ma}$: 24 60 300

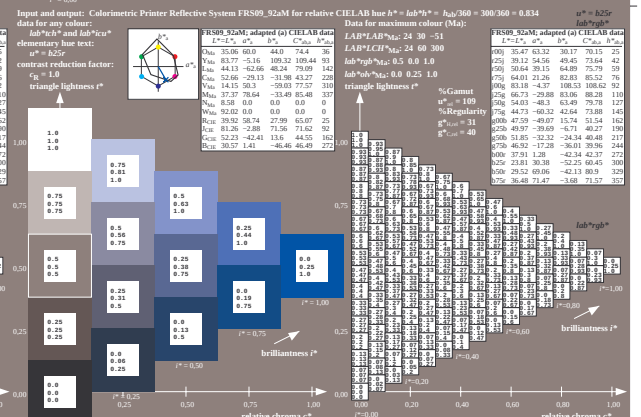
$lab^*rgb^*_{Ma}$: 0.5 0.0 1.0

$lab^*ch^*_{Ma}$: 0.0 0.25 1.0

%Gamut $u^*_{Gmt} = 109$

%Regularity $g^*_{Rgl} = 31$

$g^*_{Crd} = 40$



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 329/360 = 0.913$ $u^* = b50r$

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

elementary hue text: $u^* = b50r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 30 69 −41

$LAB^*LCH^*_{Ma}$: 30 81 329

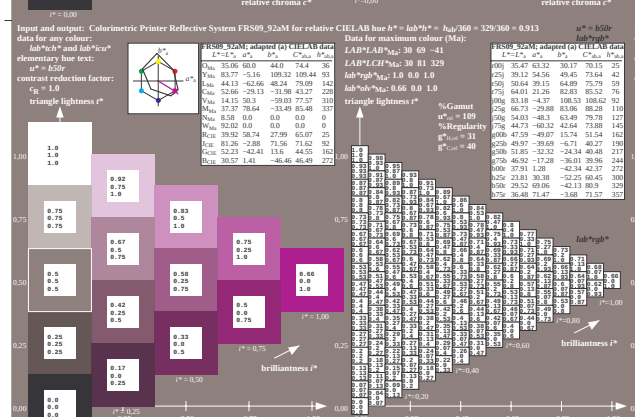
$lab^*rgb^*_{Ma}$: 1.0 0.0 1.0

$lab^*ch^*_{Ma}$: 0.66 0.0 1.0

%Gamut $u^*_{Gmt} = 109$

%Regularity $g^*_{Rgl} = 31$

$g^*_{Crd} = 40$



Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 357/360 = 0.992$ $u^* = b75r$

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

elementary hue text: $u^* = b75r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 36 71 −3

$LAB^*LCH^*_{Ma}$: 36 72 357

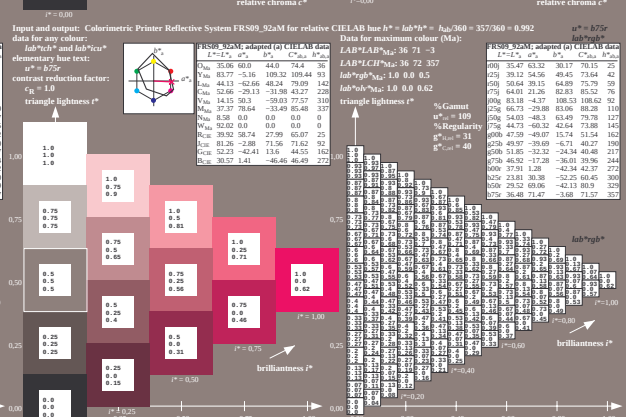
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.5

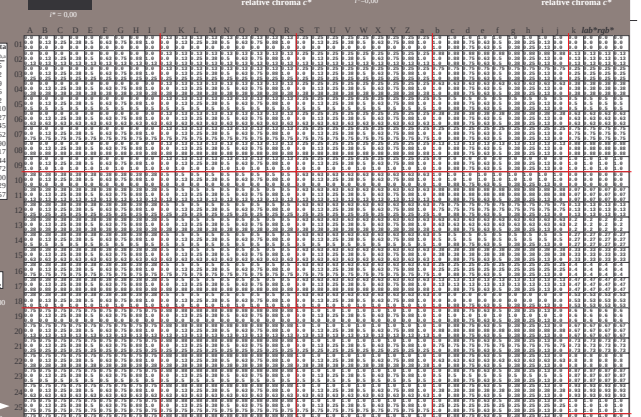
$lab^*ch^*_{Ma}$: 1.0 0.0 0.62

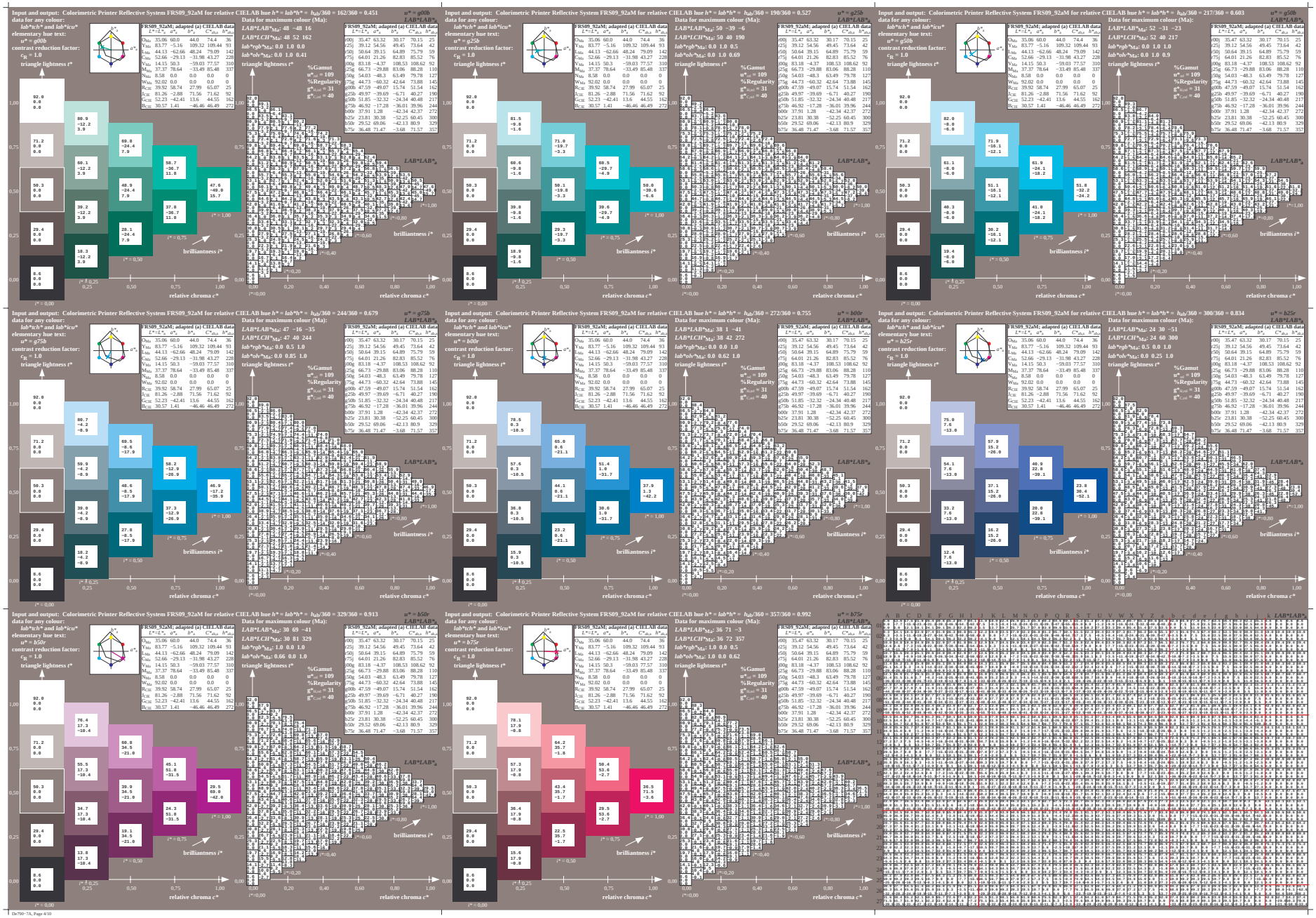
%Gamut $u^*_{Gmt} = 109$

%Regularity $g^*_{Rgl} = 31$

$g^*_{Crd} = 40$



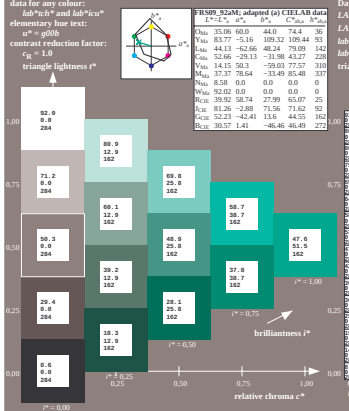


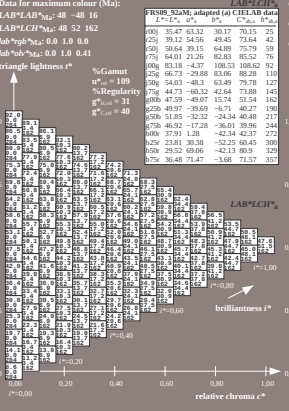

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*b* = hab/360 = 162/360 = 0.451
data for any colour:
lab*tch* and lab*icu*
elementary hue text:
u* = g60b
contrast reduction factor:
cR = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*Ma: 48 -48 16
LAB*LCH*Ma: 48 52 162
lab*rgb*Ma: 0.0 1.0 0.0
lab*oklab*Ma: 0.0 1.0 0.41
%Gamut
u*cut = 109
%Regularity
g*Ltcut = 31
g*Ccut = 40
FRS09_92aM; adapted (a) CIELAB data
L*=L*s a*s b*s C*ab,s h*ab,s
Ohm 35.06 60.0 44.0 74.4 36
Ymh 83.77 -5.16 109.32 109.44 93
Lmh 44.13 -62.66 48.24 79.09 142
Cmh 52.66 -29.13 -31.98 43.27 228
Vmh 14.15 50.3 -59.03 77.57 310
Mmh 37.37 78.64 -33.49 85.48 337
Nmh 8.58 0.0 0.0 0.0 0
Wmh 92.02 0.0 0.0 0.0 0
RCIE 39.92 58.74 27.99 65.07 25
JCIE 81.26 -2.88 71.56 71.62 92
GCIE 52.23 -42.41 13.6 44.55 162
BCIE 30.57 1.41 -46.46 46.49 272
LAB*LAB*a
LAB*LCH*h
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*b* = hab/360 = 190/360 = 0.527
u* = g50b
Data for maximum colour (Ma):
LAB*LAB*Ma: 50 -39 -6
LAB*LCH*Ma: 50 40 190
lab*rgb*Ma: 0.0 1.0 0.5
lab*oklab*Ma: 0.0 1.0 0.69
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*b* = hab/360 = 217/360 = 0.603
u* = g50b
Data for maximum colour (Ma):
LAB*LAB*Ma: 52 -31 -23
LAB*LCH*Ma: 52 40 217
lab*rgb*Ma: 0.0 1.0 1.0
lab*oklab*Ma: 0.0 1.0 0.9
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*b* = hab/360 = 244/360 = 0.679
u* = g75b
Data for maximum colour (Ma):
LAB*LAB*Ma: 47 -16 -35
LAB*LCH*Ma: 47 40 244
lab*rgb*Ma: 0.0 0.5 1.0
lab*oklab*Ma: 0.0 0.85 1.0
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*b* = hab/360 = 272/360 = 0.755
u* = b00r
Data for maximum colour (Ma):
LAB*LAB*Ma: 38 1 -41
LAB*LCH*Ma: 38 42 272
lab*rgb*Ma: 0.0 0.0 1.0
lab*oklab*Ma: 0.0 0.62 1.0
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*b* = hab/360 = 300/360 = 0.834
u* = b25r
Data for maximum colour (Ma):
LAB*LAB*Ma: 24 30 -51
LAB*LCH*Ma: 24 60 300
lab*rgb*Ma: 0.5 0.0 1.0
lab*oklab*Ma: 0.0 0.25 1.0
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*b* = hab/360 = 329/360 = 0.913
u* = b50r
Data for maximum colour (Ma):
LAB*LAB*Ma: 30 69 -41
LAB*LCH*Ma: 30 81 329
lab*rgb*Ma: 1.0 0.0 1.0
lab*oklab*Ma: 0.66 0.0 1.0
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue h* = lab*b* = hab/360 = 357/360 = 0.992
u* = b75r
Data for maximum colour (Ma):
LAB*LAB*Ma: 36 71 -3
LAB*LCH*Ma: 36 72 357
lab*rgb*Ma: 1.0 0.0 0.5
lab*oklab*Ma: 1.0 0.0 0.62

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 162/360 = 0.451$ $u^* = g60b$

data for any colour: *lab*tch** and *lab*icu**
elementary hue text: $u^* = g60b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 48 −48 16 $LAB^*LCH^*_{Ma}$: 48 52 162 $lab^*rgb^*_{Ma}$: 0.0 1.0 0.0 $lab^*ob^*_{Ma}$: 0.0 1.0 0.41

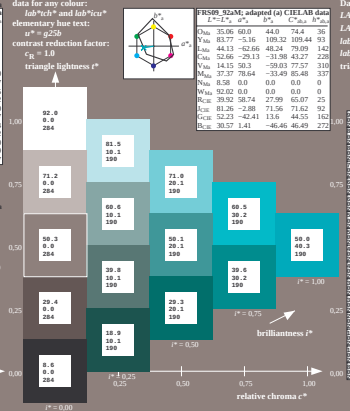


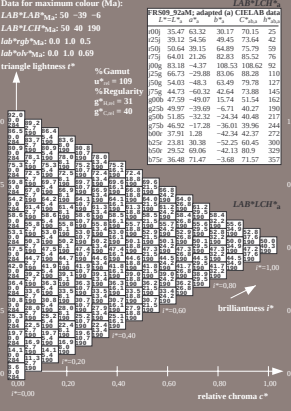


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 190/360 = 0.527$ $u^* = g25b$

data for any colour: *lab*tch** and *lab*icu**
elementary hue text: $u^* = g25b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 50 −39 −6 $LAB^*LCH^*_{Ma}$: 50 40 190 $lab^*rgb^*_{Ma}$: 0.0 1.0 0.5 $lab^*ob^*_{Ma}$: 0.0 1.0 0.69

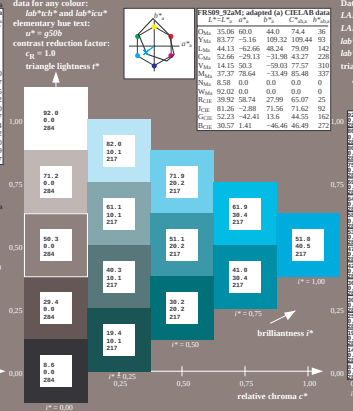


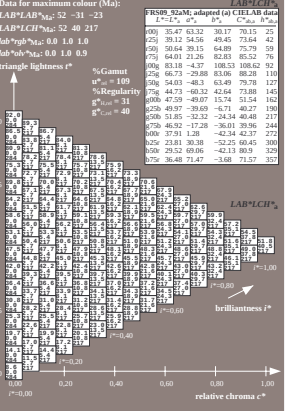


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 217/360 = 0.603$ $u^* = g50b$

data for any colour: *lab*tch** and *lab*icu**
elementary hue text: $u^* = g50b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 52 −31 −23 $LAB^*LCH^*_{Ma}$: 52 40 217 $lab^*rgb^*_{Ma}$: 0.0 1.0 1.0 $lab^*ob^*_{Ma}$: 0.0 1.0 0.9

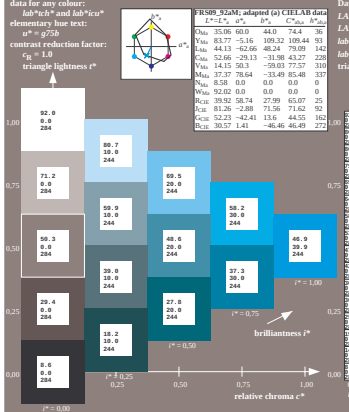


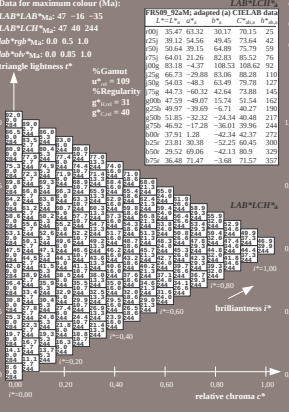


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 244/360 = 0.679$ $u^* = g75b$

data for any colour: *lab*tch** and *lab*icu**
elementary hue text: $u^* = g75b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 47 −16 −35 $LAB^*LCH^*_{Ma}$: 47 40 244 $lab^*rgb^*_{Ma}$: 0.0 0.5 1.0 $lab^*ob^*_{Ma}$: 0.0 0.85 1.0

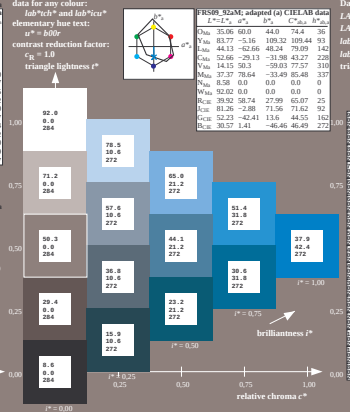


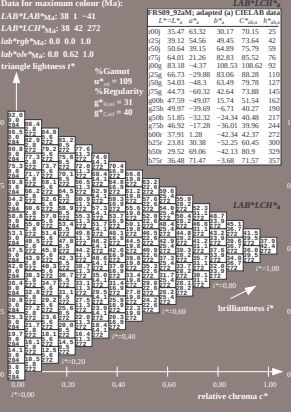


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 272/360 = 0.755$ $u^* = b00r$

data for any colour: *lab*tch** and *lab*icu**
elementary hue text: $u^* = b00r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 38 1 −41 $LAB^*LCH^*_{Ma}$: 38 42 272 $lab^*rgb^*_{Ma}$: 0.0 0.2 1.0 $lab^*ob^*_{Ma}$: 0.0 0.62 1.0

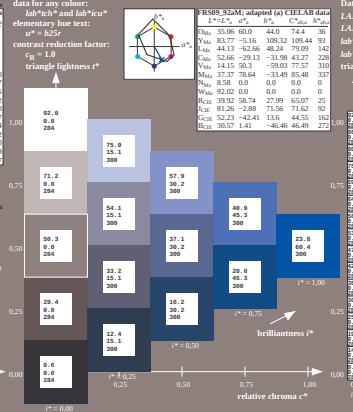


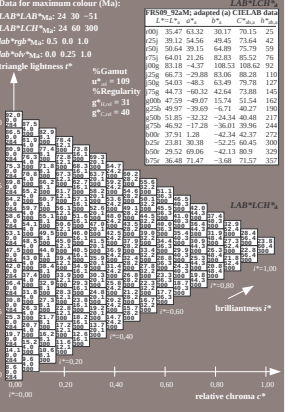


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 300/360 = 0.834$ $u^* = b25r$

data for any colour: *lab*tch** and *lab*icu**
elementary hue text: $u^* = b25r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 24 30 −51 $LAB^*LCH^*_{Ma}$: 24 60 300 $lab^*rgb^*_{Ma}$: 0.5 0.0 1.0 $lab^*ob^*_{Ma}$: 0.0 0.25 1.0

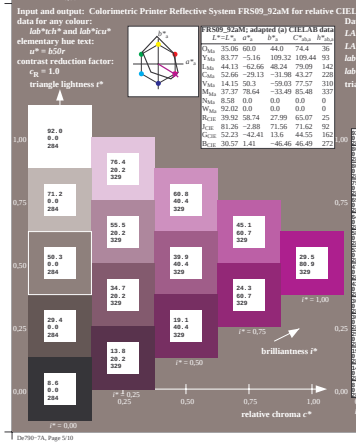


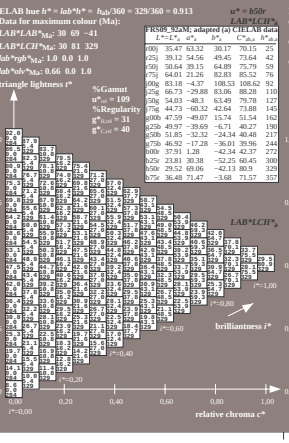


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 329/360 = 0.913$ $u^* = b50r$

data for any colour: *lab*tch** and *lab*icu**
elementary hue text: $u^* = b50r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 30 69 −41 $LAB^*LCH^*_{Ma}$: 30 81 329 $lab^*rgb^*_{Ma}$: 1.0 0.0 1.0 $lab^*ob^*_{Ma}$: 0.66 0.0 1.0

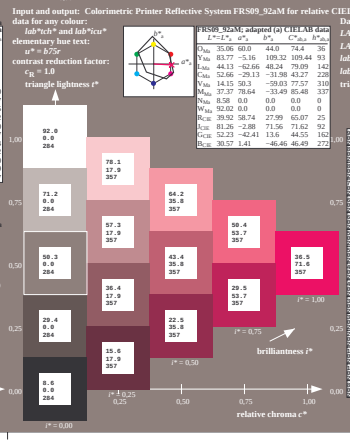


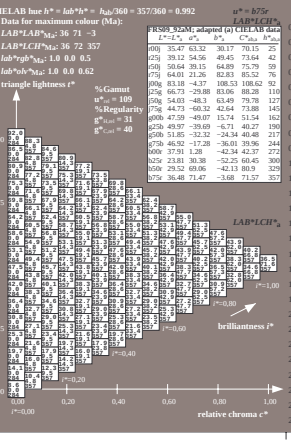


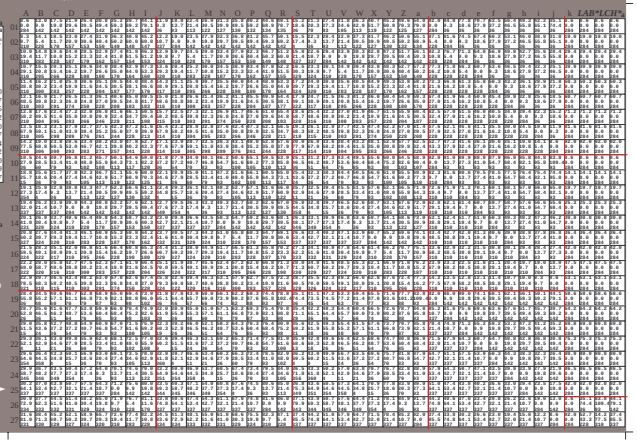
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 357/360 = 0.992$ $u^* = b75r$

data for any colour: *lab*tch** and *lab*icu**
elementary hue text: $u^* = b75r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 36 71 −3 $LAB^*LCH^*_{Ma}$: 36 72 357 $lab^*rgb^*_{Ma}$: 1.0 0.0 0.5 $lab^*ob^*_{Ma}$: 1.0 0.0 0.62







Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 162/360 = 0.451$ $u^* = g60b$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = g60b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 48 −48 16
$LAB^*LCH^*_{Ma}$: 48 52 162
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
$lab^*ob^*_{Ma}$: 0.0 1.0 0.41

%Gamut $u^*_{Gmt} = 109$
%Regularity $g^*_{Ist} = 31$
$g^*_{Cmt} = 40$

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00	37.91	1.28	−42.34	42.37	272
b25	23.81	30.38	−52.25	60.45	300
b50	29.52	69.06	−42.13	80.9	329
b75	36.48	71.47	−3.68	71.57	357

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 190/360 = 0.527$ $u^* = g25b$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = g25b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 50 −39 −6
$LAB^*LCH^*_{Ma}$: 50 40 190
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.5
$lab^*ob^*_{Ma}$: 0.0 1.0 0.69

%Gamut $u^*_{Gmt} = 109$
%Regularity $g^*_{Ist} = 31$
$g^*_{Cmt} = 40$

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00	37.91	1.28	−42.34	42.37	272
b25	23.81	30.38	−52.25	60.45	300
b50	29.52	69.06	−42.13	80.9	329
b75	36.48	71.47	−3.68	71.57	357

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 217/360 = 0.603$ $u^* = g50b$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = g50b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 52 −31 −23
$LAB^*LCH^*_{Ma}$: 52 40 217
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
$lab^*ob^*_{Ma}$: 0.0 1.0 0.9

%Gamut $u^*_{Gmt} = 109$
%Regularity $g^*_{Ist} = 31$
$g^*_{Cmt} = 40$

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00	37.91	1.28	−42.34	42.37	272
b25	23.81	30.38	−52.25	60.45	300
b50	29.52	69.06	−42.13	80.9	329
b75	36.48	71.47	−3.68	71.57	357

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 244/360 = 0.679$ $u^* = g75b$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = g75b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 47 −16 −35
$LAB^*LCH^*_{Ma}$: 47 40 244
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
$lab^*ob^*_{Ma}$: 0.0 0.85 1.0

%Gamut $u^*_{Gmt} = 109$
%Regularity $g^*_{Ist} = 31$
$g^*_{Cmt} = 40$

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00	37.91	1.28	−42.34	42.37	272
b25	23.81	30.38	−52.25	60.45	300
b50	29.52	69.06	−42.13	80.9	329
b75	36.48	71.47	−3.68	71.57	357

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 272/360 = 0.755$ $u^* = b00r$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = b00r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 38 1 −41
$LAB^*LCH^*_{Ma}$: 38 42 272
$lab^*rgb^*_{Ma}$: 0.0 0.0 1.0
$lab^*ob^*_{Ma}$: 0.0 0.62 1.0

%Gamut $u^*_{Gmt} = 109$
%Regularity $g^*_{Ist} = 31$
$g^*_{Cmt} = 40$

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00	37.91	1.28	−42.34	42.37	272
b25	23.81	30.38	−52.25	60.45	300
b50	29.52	69.06	−42.13	80.9	329
b75	36.48	71.47	−3.68	71.57	357

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 300/360 = 0.834$ $u^* = b25r$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = b25r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 24 30 −51
$LAB^*LCH^*_{Ma}$: 24 60 300
$lab^*rgb^*_{Ma}$: 0.5 0.0 1.0
$lab^*ob^*_{Ma}$: 0.0 0.25 1.0

%Gamut $u^*_{Gmt} = 109$
%Regularity $g^*_{Ist} = 31$
$g^*_{Cmt} = 40$

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00	37.91	1.28	−42.34	42.37	272
b25	23.81	30.38	−52.25	60.45	300
b50	29.52	69.06	−42.13	80.9	329
b75	36.48	71.47	−3.68	71.57	357

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 329/360 = 0.913$ $u^* = b50r$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = b50r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 30 69 −41
$LAB^*LCH^*_{Ma}$: 30 81 329
$lab^*rgb^*_{Ma}$: 1.0 0.0 1.0
$lab^*ob^*_{Ma}$: 0.66 0.0 1.0

%Gamut $u^*_{Gmt} = 109$
%Regularity $g^*_{Ist} = 31$
$g^*_{Cmt} = 40$

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00	37.91	1.28	−42.34	42.37	272
b25	23.81	30.38	−52.25	60.45	300
b50	29.52	69.06	−42.13	80.9	329
b75	36.48	71.47	−3.68	71.57	357

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 357/360 = 0.992$ $u^* = b75r$

data for any colour: lab^*tch^* and lab^*icu^*
elementary hue text: $u^* = b75r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 36 71 −3
$LAB^*LCH^*_{Ma}$: 36 72 357
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.5
$lab^*ob^*_{Ma}$: 1.0 0.0 0.62

%Gamut $u^*_{Gmt} = 109$
%Regularity $g^*_{Ist} = 31$
$g^*_{Cmt} = 40$

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	−5.16	109.32	109.44	93
L_{Ma}	44.13	−62.66	48.24	79.09	142
C_{Ma}	52.66	−29.13	−31.98	43.27	228
V_{Ma}	14.15	50.3	−59.03	77.57	310
M_{Ma}	37.37	78.64	−33.49	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_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00	37.91	1.28	−42.34	42.37	272
b25	23.81	30.38	−52.25	60.45	300
b50	29.52	69.06	−42.13	80.9	329
b75	36.48	71.47	−3.68	71.57	357

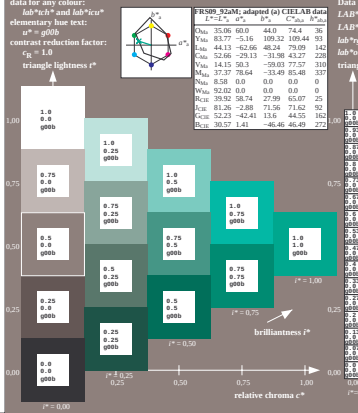
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 162/360 = 0.451$ $u^* = g60b$ lab^*icu^*

Data for any colour: lab^*tch^* and lab^*icu^*

elementary hue text: $u^* = g60b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*



FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Mu}	35.06	60.0	44.0	74.4	36
Y_{Mu}	83.77	−5.16	109.32	109.44	93
L_{Mu}	44.13	−62.66	48.24	79.09	142
C_{Mu}	52.66	−29.13	−31.98	43.27	228
V_{Mu}	14.15	50.3	−59.03	77.57	310
M_{Mu}	37.37	78.64	−33.49	85.48	337
N_{Mu}	8.58	0.0	0.0	0.0	0
W_{Mu}	92.02	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 48 −48 16

$LAB^*LCH^*_{Ma}$: 48 52 162

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

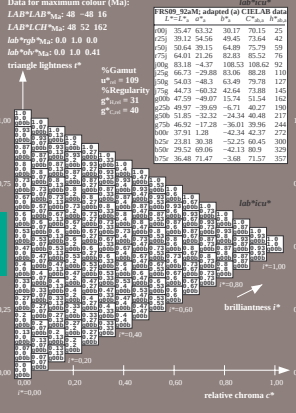
$lab^*ob^*_{Ma}$: 0.0 1.0 0.41

%Gamma u^*_{Gam} = 109

%Regularity g^*_{Reg} = 31

g^*_{Crel} = 40

FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



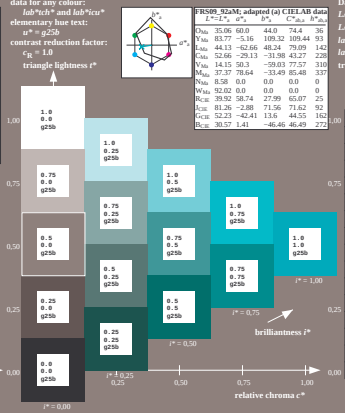
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 190/360 = 0.527$ $u^* = g25b$ lab^*icu^*

Data for any colour: lab^*tch^* and lab^*icu^*

elementary hue text: $u^* = g25b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*



FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Mu}	35.06	60.0	44.0	74.4	36
Y_{Mu}	83.77	−5.16	109.32	109.44	93
L_{Mu}	44.13	−62.66	48.24	79.09	142
C_{Mu}	52.66	−29.13	−31.98	43.27	228
V_{Mu}	14.15	50.3	−59.03	77.57	310
M_{Mu}	37.37	78.64	−33.49	85.48	337
N_{Mu}	8.58	0.0	0.0	0.0	0
W_{Mu}	92.02	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 50 −39 −6

$LAB^*LCH^*_{Ma}$: 50 40 190

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

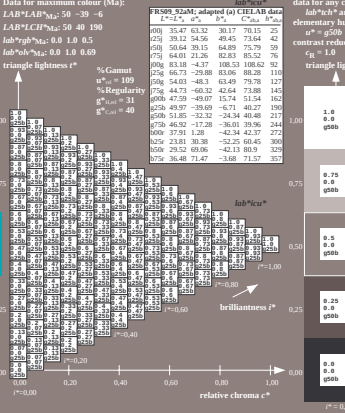
$lab^*ob^*_{Ma}$: 0.0 1.0 0.69

%Gamut u^*_{Gam} = 109

%Regularity g^*_{Reg} = 31

g^*_{Crel} = 40

FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



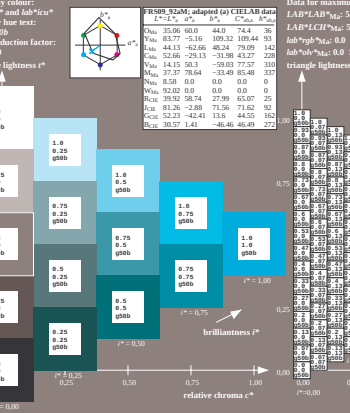
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 217/360 = 0.603$ $u^* = g50b$ lab^*icu^*

Data for any colour: lab^*tch^* and lab^*icu^*

elementary hue text: $u^* = g50b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*



FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Mu}	35.06	60.0	44.0	74.4	36
Y_{Mu}	83.77	−5.16	109.32	109.44	93
L_{Mu}	44.13	−62.66	48.24	79.09	142
C_{Mu}	52.66	−29.13	−31.98	43.27	228
V_{Mu}	14.15	50.3	−59.03	77.57	310
M_{Mu}	37.37	78.64	−33.49	85.48	337
N_{Mu}	8.58	0.0	0.0	0.0	0
W_{Mu}	92.02	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 52 −31 −23

$LAB^*LCH^*_{Ma}$: 52 40 217

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

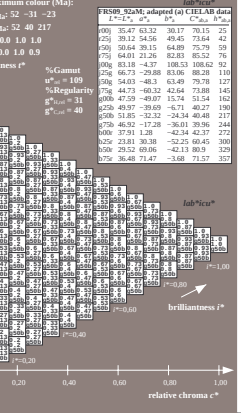
$lab^*ob^*_{Ma}$: 0.0 1.0 0.9

%Gamut u^*_{Gam} = 109

%Regularity g^*_{Reg} = 31

g^*_{Crel} = 40

FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



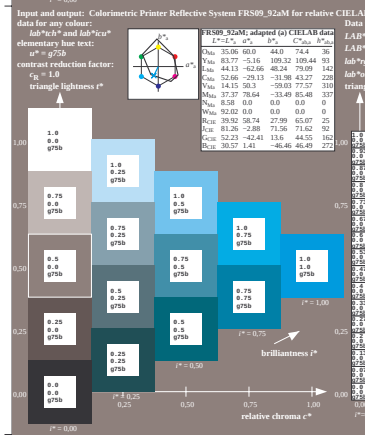
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 244/360 = 0.679$ $u^* = g75b$ lab^*icu^*

Data for any colour: lab^*tch^* and lab^*icu^*

elementary hue text: $u^* = g75b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*



FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Mu}	35.06	60.0	44.0	74.4	36
Y_{Mu}	83.77	−5.16	109.32	109.44	93
L_{Mu}	44.13	−62.66	48.24	79.09	142
C_{Mu}	52.66	−29.13	−31.98	43.27	228
V_{Mu}	14.15	50.3	−59.03	77.57	310
M_{Mu}	37.37	78.64	−33.49	85.48	337
N_{Mu}	8.58	0.0	0.0	0.0	0
W_{Mu}	92.02	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 47 −16 −35

$LAB^*LCH^*_{Ma}$: 47 40 244

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

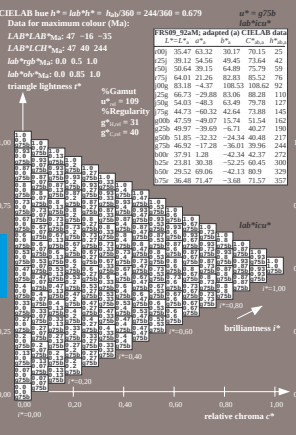
$lab^*ob^*_{Ma}$: 0.0 0.85 1.0

%Gamut u^*_{Gam} = 109

%Regularity g^*_{Reg} = 31

g^*_{Crel} = 40

FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



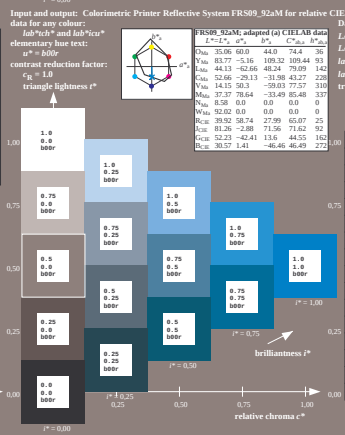
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 272/360 = 0.755$ $u^* = b00r$ lab^*icu^*

Data for any colour: lab^*tch^* and lab^*icu^*

elementary hue text: $u^* = b00r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*



FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Mu}	35.06	60.0	44.0	74.4	36
Y_{Mu}	83.77	−5.16	109.32	109.44	93
L_{Mu}	44.13	−62.66	48.24	79.09	142
C_{Mu}	52.66	−29.13	−31.98	43.27	228
V_{Mu}	14.15	50.3	−59.03	77.57	310
M_{Mu}	37.37	78.64	−33.49	85.48	337
N_{Mu}	8.58	0.0	0.0	0.0	0
W_{Mu}	92.02	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 38 1 −41

$LAB^*LCH^*_{Ma}$: 38 42 272

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

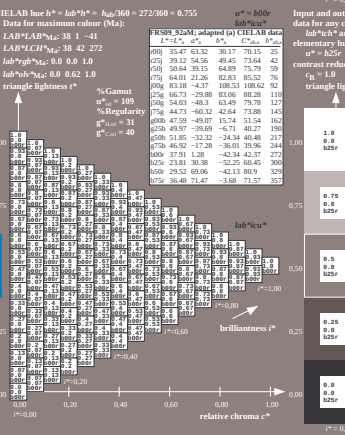
$lab^*ob^*_{Ma}$: 0.0 0.62 1.0

%Gamut u^*_{Gam} = 109

%Regularity g^*_{Reg} = 31

g^*_{Crel} = 40

FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



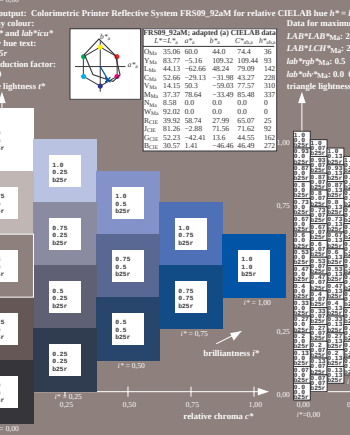
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 300/360 = 0.834$ $u^* = b25r$ lab^*icu^*

Data for any colour: lab^*tch^* and lab^*icu^*

elementary hue text: $u^* = b25r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*



FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Mu}	35.06	60.0	44.0	74.4	36
Y_{Mu}	83.77	−5.16	109.32	109.44	93
L_{Mu}	44.13	−62.66	48.24	79.09	142
C_{Mu}	52.66	−29.13	−31.98	43.27	228
V_{Mu}	14.15	50.3	−59.03	77.57	310
M_{Mu}	37.37	78.64	−33.49	85.48	337
N_{Mu}	8.58	0.0	0.0	0.0	0
W_{Mu}	92.02	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 24 30 −51

$LAB^*LCH^*_{Ma}$: 24 60 300

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

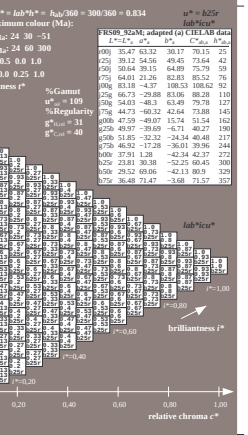
$lab^*ob^*_{Ma}$: 0.0 0.25 1.0

%Gamut u^*_{Gam} = 109

%Regularity g^*_{Reg} = 31

g^*_{Crel} = 40

FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



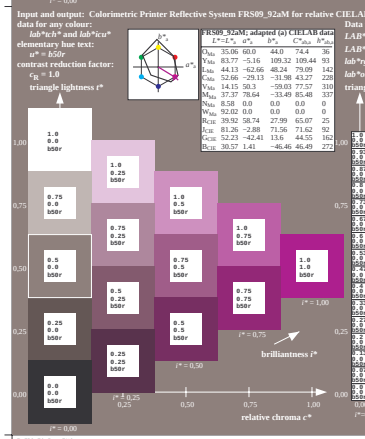
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 329/360 = 0.913$ $u^* = b50r$ lab^*icu^*

Data for any colour: lab^*tch^* and lab^*icu^*

elementary hue text: $u^* = b50r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*



FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Mu}	35.06	60.0	44.0	74.4	36
Y_{Mu}	83.77	−5.16	109.32	109.44	93
L_{Mu}	44.13	−62.66	48.24	79.09	142
C_{Mu}	52.66	−29.13	−31.98	43.27	228
V_{Mu}	14.15	50.3	−59.03	77.57	310
M_{Mu}	37.37	78.64	−33.49	85.48	337
N_{Mu}	8.58	0.0	0.0	0.0	0
W_{Mu}	92.02	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 30 69 −41

$LAB^*LCH^*_{Ma}$: 30 81 329

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

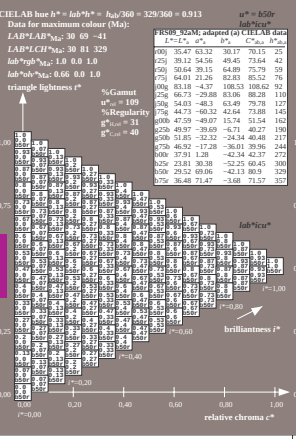
$lab^*ob^*_{Ma}$: 0.66 0.0 1.0

%Gamut u^*_{Gam} = 109

%Regularity g^*_{Reg} = 31

g^*_{Crel} = 40

FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



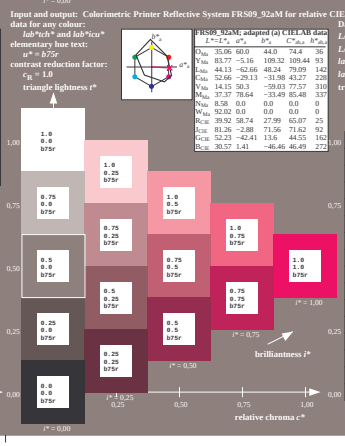
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 357/360 = 0.992$ $u^* = b75r$ lab^*icu^*

Data for any colour: lab^*tch^* and lab^*icu^*

elementary hue text: $u^* = b75r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*



FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Mu}	35.06	60.0	44.0	74.4	36
Y_{Mu}	83.77	−5.16	109.32	109.44	93
L_{Mu}	44.13	−62.66	48.24	79.09	142
C_{Mu}	52.66	−29.13	−31.98	43.27	228
V_{Mu}	14.15	50.3	−59.03	77.57	310
M_{Mu}	37.37	78.64	−33.49	85.48	337
N_{Mu}	8.58	0.0	0.0	0.0	0
W_{Mu}	92.02	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 36 71 −3

$LAB^*LCH^*_{Ma}$: 36 72 357

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

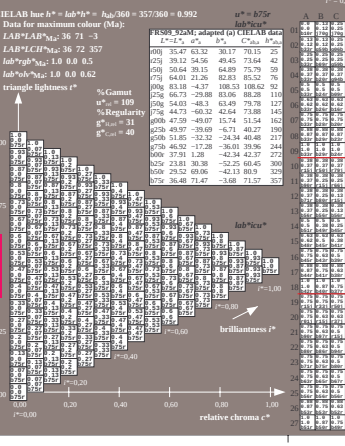
$lab^*ob^*_{Ma}$: 1.0 0.0 0.62

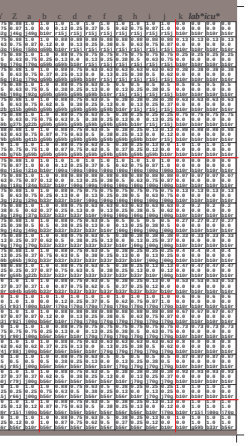
%Gamut u^*_{Gam} = 109

%Regularity g^*_{Reg} = 31

g^*_{Crel} = 40

FRS09_92aM; adapted (a) CIELAB data	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
g00	83.18	−4.37	108.53	108.62	92
g25	66.73	−29.88	83.06	88.28	110
g50	54.03	−48.3	63.49	79.78	127
g75	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357

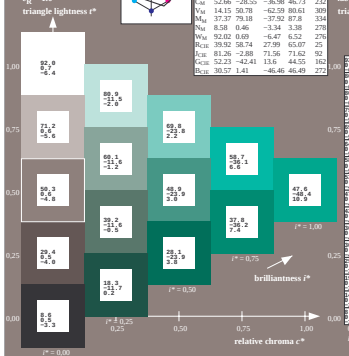


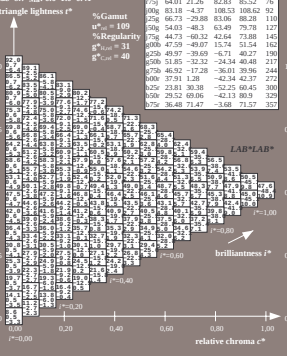


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 162/360 = 0.451$ $u^* = g60b$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = g60b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 48 −48 16
$LAB^*LCH^*_{Ma}$: 48 52 162
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
$lab^*ob^*_{Ma}$: 0.0 1.0 0.41

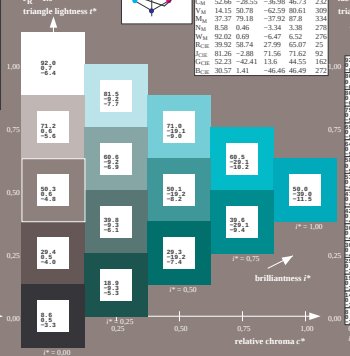


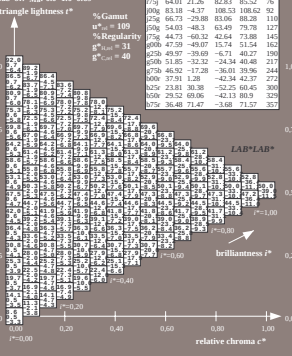


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 190/360 = 0.527$ $u^* = g25b$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = g25b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 50 −39 −6
$LAB^*LCH^*_{Ma}$: 50 40 190
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.5
$lab^*ob^*_{Ma}$: 0.0 1.0 0.69

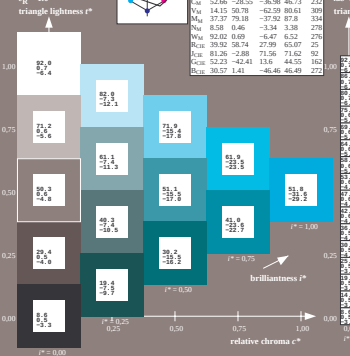


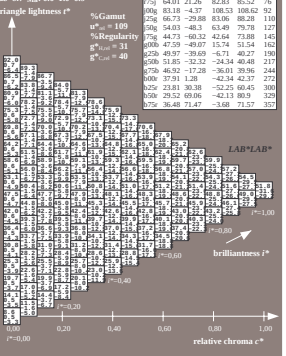


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 217/360 = 0.603$ $u^* = g50b$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = g50b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 52 −31 −23
$LAB^*LCH^*_{Ma}$: 52 40 217
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
$lab^*ob^*_{Ma}$: 0.0 1.0 0.9

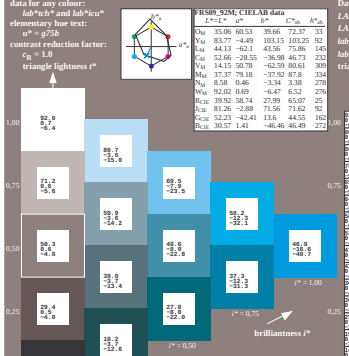


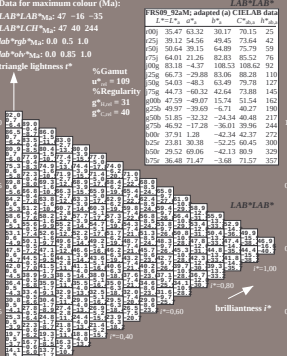


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 244/360 = 0.679$ $u^* = g75b$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = g75b$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 47 −16 −35
$LAB^*LCH^*_{Ma}$: 47 40 244
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
$lab^*ob^*_{Ma}$: 0.0 0.85 1.0

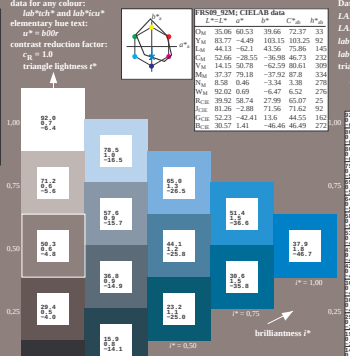


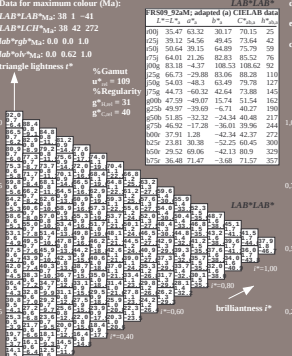


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 272/360 = 0.755$ $u^* = b00r$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = b00r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 38 1 −41
$LAB^*LCH^*_{Ma}$: 38 42 272
$lab^*rgb^*_{Ma}$: 0.0 0.2 1.0
$lab^*ob^*_{Ma}$: 0.0 0.62 1.0

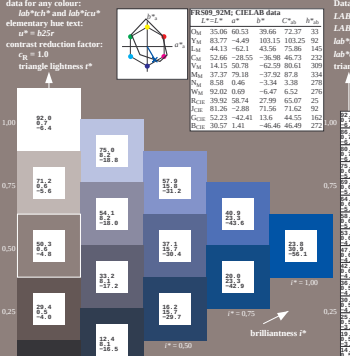


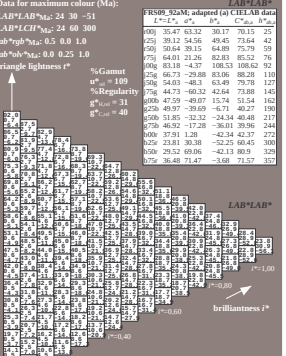


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 300/360 = 0.834$ $u^* = b25r$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = b25r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 24 30 −51
$LAB^*LCH^*_{Ma}$: 24 60 300
$lab^*rgb^*_{Ma}$: 0.5 0.0 1.0
$lab^*ob^*_{Ma}$: 0.0 0.25 1.0

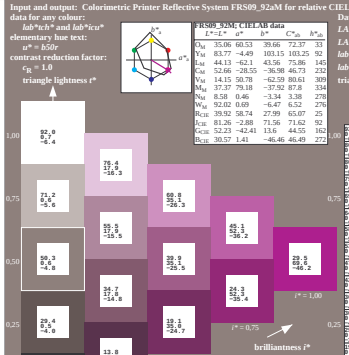


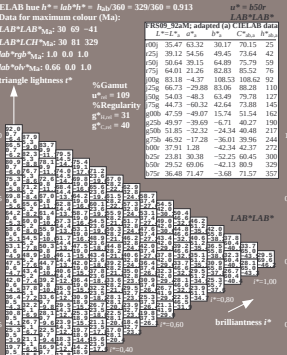


Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 329/360 = 0.913$ $u^* = b50r$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = b50r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 30 69 −41
$LAB^*LCH^*_{Ma}$: 30 81 329
$lab^*rgb^*_{Ma}$: 1.0 0.0 1.0
$lab^*ob^*_{Ma}$: 0.66 0.0 1.0

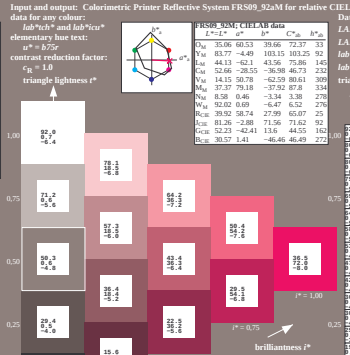


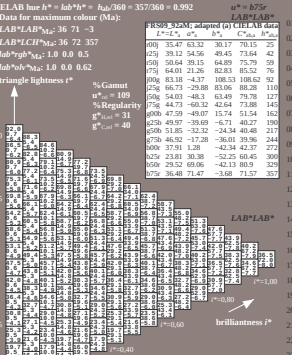


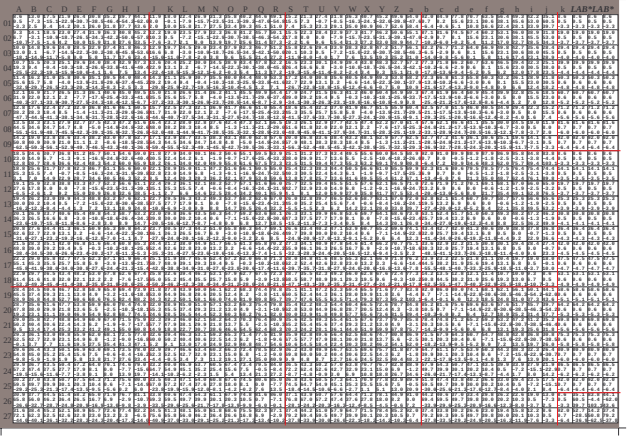
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 357/360 = 0.992$ $u^* = b75r$

data for any colour: *lab*tch* and lab*icu**
elementary hue text: $u^* = b75r$
contrast reduction factor: $c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 36 71 −3
$LAB^*LCH^*_{Ma}$: 36 72 357
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.5
$lab^*ob^*_{Ma}$: 1.0 0.0 0.62







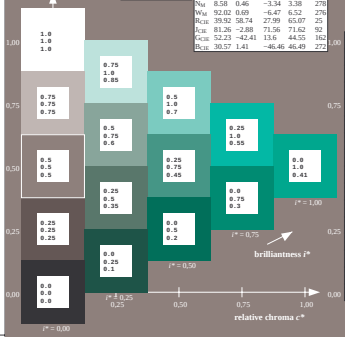
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 162/360 = 0.451$ $u^* = g60b$

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

elementary hue text: $u^* = g60b$

contrast reduction factor: $c_R = 1.0$

triangle lightness i^*



FRS09_92aM; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	35.06	60.53	39.66	72.37	33
Y_M	83.77	−4.49	103.15	103.25	92
L_M	44.13	−62.1	43.56	75.86	145
C_M	52.66	−28.55	−36.98	46.73	232
V_M	14.15	50.78	−62.59	80.61	309
M_M	37.37	79.18	−37.92	87.8	334
N_M	8.58	0.46	−3.34	3.38	278
W_M	92.02	0.69	−6.47	6.52	276
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 48 −48 16

$LAB^*LCH^*_{Ma}$: 48 52 162

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

$lab^*ob^*_{Ma}$: 0.0 1.0 0.41

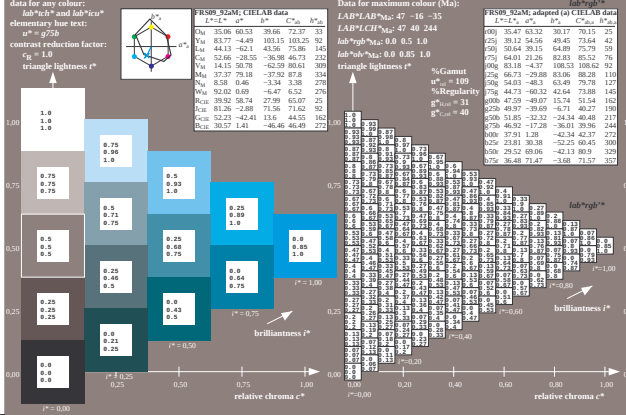
%Gamut u^*_{Gam} = 109

%Regularity g^*_{Ref} = 31

g^*_{Cont} = 40

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
r00g	83.18	−4.37	108.53	108.62	92
r25g	66.73	−29.88	83.06	88.28	110
r50g	54.03	−48.3	63.49	79.78	127
r75g	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



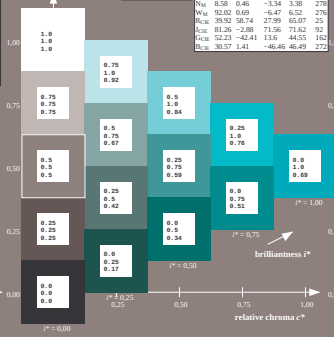
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 190/360 = 0.527$ $u^* = g25b$

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

elementary hue text: $u^* = g25b$

contrast reduction factor: $c_R = 1.0$

triangle lightness i^*



FRS09_92aM; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	35.06	60.53	39.66	72.37	33
Y_M	83.77	−4.49	103.15	103.25	92
L_M	44.13	−62.1	43.56	75.86	145
C_M	52.66	−28.55	−36.98	46.73	232
V_M	14.15	50.78	−62.59	80.61	309
M_M	37.37	79.18	−37.92	87.8	334
N_M	8.58	0.46	−3.34	3.38	278
W_M	92.02	0.69	−6.47	6.52	276
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 50 −39 −6

$LAB^*LCH^*_{Ma}$: 50 40 190

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

$lab^*ob^*_{Ma}$: 0.0 1.0 0.69

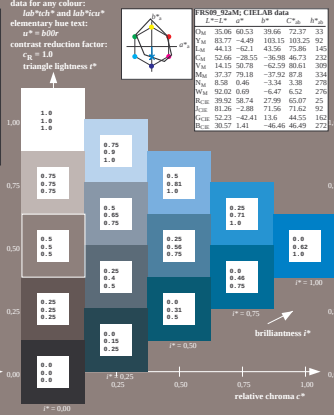
%Gamut u^*_{Gam} = 109

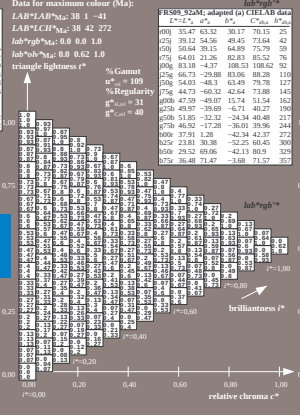
%Regularity g^*_{Ref} = 31

g^*_{Cont} = 40

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
r00g	83.18	−4.37	108.53	108.62	92
r25g	66.73	−29.88	83.06	88.28	110
r50g	54.03	−48.3	63.49	79.78	127
r75g	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357





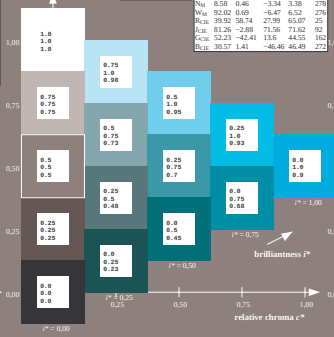
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 217/360 = 0.603$ $u^* = g50b$

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

elementary hue text: $u^* = g50b$

contrast reduction factor: $c_R = 1.0$

triangle lightness i^*



FRS09_92aM; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	35.06	60.53	39.66	72.37	33
Y_M	83.77	−4.49	103.15	103.25	92
L_M	44.13	−62.1	43.56	75.86	145
C_M	52.66	−28.55	−36.98	46.73	232
V_M	14.15	50.78	−62.59	80.61	309
M_M	37.37	79.18	−37.92	87.8	334
N_M	8.58	0.46	−3.34	3.38	278
W_M	92.02	0.69	−6.47	6.52	276
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 52 −31 −23

$LAB^*LCH^*_{Ma}$: 52 40 217

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

$lab^*ob^*_{Ma}$: 0.0 1.0 0.9

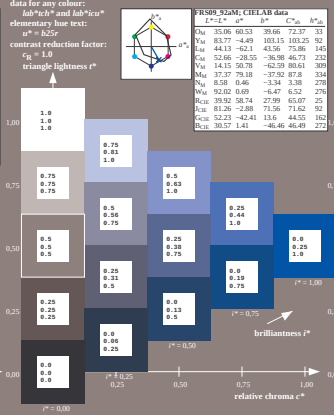
%Gamut u^*_{Gam} = 109

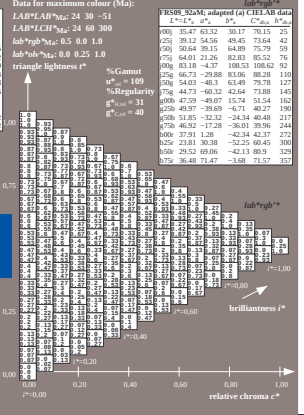
%Regularity g^*_{Ref} = 31

g^*_{Cont} = 40

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
r00g	83.18	−4.37	108.53	108.62	92
r25g	66.73	−29.88	83.06	88.28	110
r50g	54.03	−48.3	63.49	79.78	127
r75g	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357





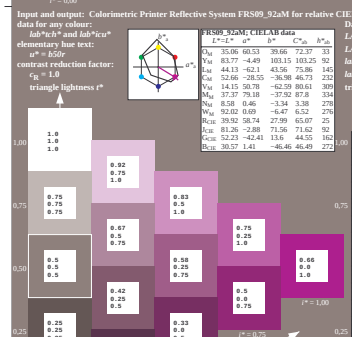
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 244/360 = 0.679$ $u^* = g75b$

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

elementary hue text: $u^* = g75b$

contrast reduction factor: $c_R = 1.0$

triangle lightness i^*



FRS09_92aM; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	35.06	60.53	39.66	72.37	33
Y_M	83.77	−4.49	103.15	103.25	92
L_M	44.13	−62.1	43.56	75.86	145
C_M	52.66	−28.55	−36.98	46.73	232
V_M	14.15	50.78	−62.59	80.61	309
M_M	37.37	79.18	−37.92	87.8	334
N_M	8.58	0.46	−3.34	3.38	278
W_M	92.02	0.69	−6.47	6.52	276
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 47 −16 −35

$LAB^*LCH^*_{Ma}$: 47 40 244

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

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

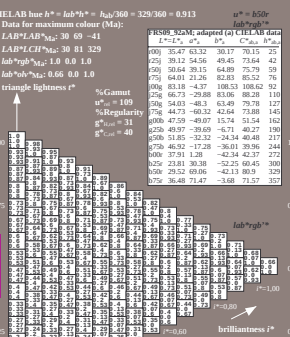
%Gamut u^*_{Gam} = 109

%Regularity g^*_{Ref} = 31

g^*_{Cont} = 40

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
r00g	83.18	−4.37	108.53	108.62	92
r25g	66.73	−29.88	83.06	88.28	110
r50g	54.03	−48.3	63.49	79.78	127
r75g	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



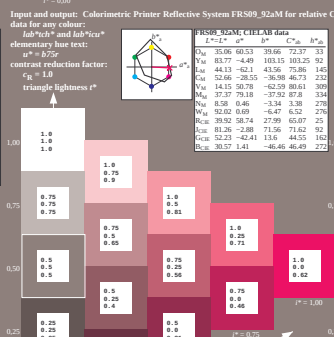
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 272/360 = 0.755$ $u^* = b00r$

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

elementary hue text: $u^* = b00r$

contrast reduction factor: $c_R = 1.0$

triangle lightness i^*



FRS09_92aM; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	35.06	60.53	39.66	72.37	33
Y_M	83.77	−4.49	103.15	103.25	92
L_M	44.13	−62.1	43.56	75.86	145
C_M	52.66	−28.55	−36.98	46.73	232
V_M	14.15	50.78	−62.59	80.61	309
M_M	37.37	79.18	−37.92	87.8	334
N_M	8.58	0.46	−3.34	3.38	278
W_M	92.02	0.69	−6.47	6.52	276
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 38 1 −41

$LAB^*LCH^*_{Ma}$: 38 42 272

$lab^*rgb^*_{Ma}$: 0.0 0.62 1.0

$lab^*ob^*_{Ma}$: 0.0 0.62 1.0

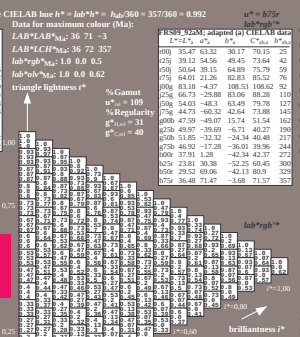
%Gamut u^*_{Gam} = 109

%Regularity g^*_{Ref} = 31

g^*_{Cont} = 40

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
r00g	83.18	−4.37	108.53	108.62	92
r25g	66.73	−29.88	83.06	88.28	110
r50g	54.03	−48.3	63.49	79.78	127
r75g	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



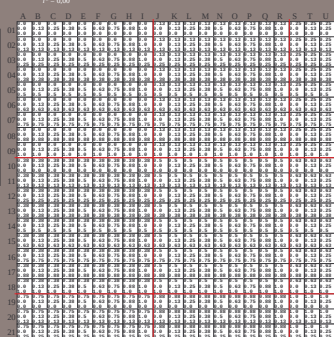
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 300/360 = 0.834$ $u^* = b25r$

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

elementary hue text: $u^* = b25r$

contrast reduction factor: $c_R = 1.0$

triangle lightness i^*



FRS09_92aM; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	35.06	60.53	39.66	72.37	33
Y_M	83.77	−4.49	103.15	103.25	92
L_M	44.13	−62.1	43.56	75.86	145
C_M	52.66	−28.55	−36.98	46.73	232
V_M	14.15	50.78	−62.59	80.61	309
M_M	37.37	79.18	−37.92	87.8	334
N_M	8.58	0.46	−3.34	3.38	278
W_M	92.02	0.69	−6.47	6.52	276
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 24 30 −51

$LAB^*LCH^*_{Ma}$: 24 60 300

$lab^*rgb^*_{Ma}$: 0.5 0.2 1.0

$lab^*ob^*_{Ma}$: 0.0 0.25 1.0

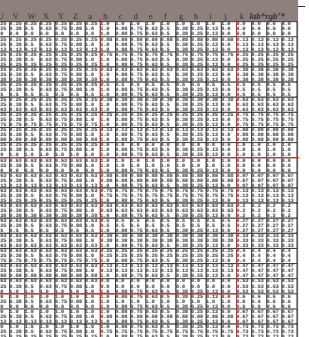
%Gamut u^*_{Gam} = 109

%Regularity g^*_{Ref} = 31

g^*_{Cont} = 40

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
r00g	83.18	−4.37	108.53	108.62	92
r25g	66.73	−29.88	83.06	88.28	110
r50g	54.03	−48.3	63.49	79.78	127
r75g	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



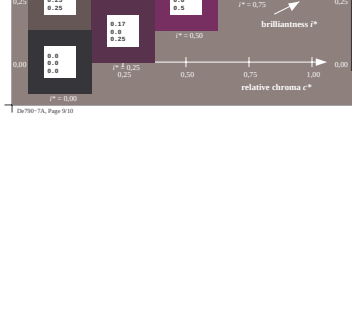
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 329/360 = 0.913$ $u^* = b50r$

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

elementary hue text: $u^* = b50r$

contrast reduction factor: $c_R = 1.0$

triangle lightness i^*



FRS09_92aM; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	35.06	60.53	39.66	72.37	33
Y_M	83.77	−4.49	103.15	103.25	92
L_M	44.13	−62.1	43.56	75.86	145
C_M	52.66	−28.55	−36.98	46.73	232
V_M	14.15	50.78	−62.59	80.61	309
M_M	37.37	79.18	−37.92	87.8	334
N_M	8.58	0.46	−3.34	3.38	278
W_M	92.02	0.69	−6.47	6.52	276
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 30 69 −41

$LAB^*LCH^*_{Ma}$: 30 81 329

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

$lab^*ob^*_{Ma}$: 0.66 0.0 1.0

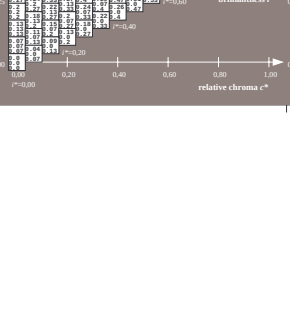
%Gamut u^*_{Gam} = 109

%Regularity g^*_{Ref} = 31

g^*_{Cont} = 40

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
r00g	83.18	−4.37	108.53	108.62	92
r25g	66.73	−29.88	83.06	88.28	110
r50g	54.03	−48.3	63.49	79.78	127
r75g	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357



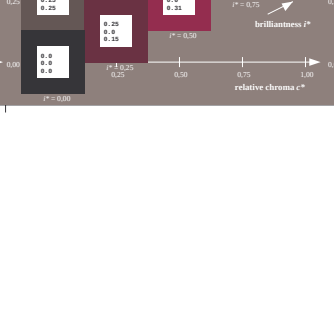
Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 357/360 = 0.992$ $u^* = b75r$

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

elementary hue text: $u^* = b75r$

contrast reduction factor: $c_R = 1.0$

triangle lightness i^*



FRS09_92aM; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_M	35.06	60.53	39.66	72.37	33
Y_M	83.77	−4.49	103.15	103.25	92
L_M	44.13	−62.1	43.56	75.86	145
C_M	52.66	−28.55	−36.98	46.73	232
V_M	14.15	50.78	−62.59	80.61	309
M_M	37.37	79.18	−37.92	87.8	334
N_M	8.58	0.46	−3.34	3.38	278
W_M	92.02	0.69	−6.47	6.52	276
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 36 71 −3

$LAB^*LCH^*_{Ma}$: 36 72 357

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

$lab^*ob^*_{Ma}$: 1.0 0.0 0.62

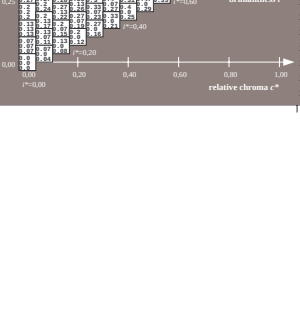
%Gamut u^*_{Gam} = 109

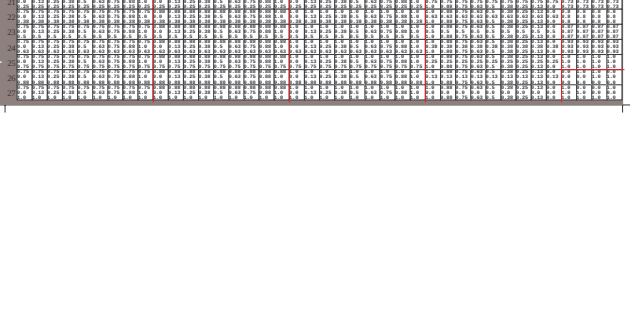
%Regularity g^*_{Ref} = 31

g^*_{Cont} = 40

FRS09_92aM; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
r00	35.47	63.32	30.17	70.15	25
r25	39.12	54.56	49.45	73.64	42
r50	50.64	39.15	64.89	75.79	59
r75	64.01	21.26	82.83	85.52	76
r00g	83.18	−4.37	108.53	108.62	92
r25g	66.73	−29.88	83.06	88.28	110
r50g	54.03	−48.3	63.49	79.78	127
r75g	44.73	−60.32	42.64	73.88	145
g00b	47.59	−49.07	15.74	51.54	162
g25b	49.97	−39.69	−6.71	40.27	190
g50b	51.85	−32.32	−24.34	40.48	217
g75b	46.92	−17.28	−36.01	39.96	244
b00r	37.91	1.28	−42.34	42.37	272
b25r	23.81	30.38	−52.25	60.45	300
b50r	29.52	69.06	−42.13	80.9	329
b75r	36.48	71.47	−3.68	71.57	357





Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 162/360 = 0.451$ $u^* = g60b$

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

elementary hue text: $u^* = g60b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 48 −48 16

$LAB^*LCH^*_{Ma}$: 48 52 162

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

$lab^*ob^*_{Ma}$: 0.0 1.0 0.41

$LAB^*cmyn^{*\circ}$

brilliantness i^*

relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 190/360 = 0.527$ $u^* = g50b$

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

elementary hue text: $u^* = g25b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 50 −39 −6

$LAB^*LCH^*_{Ma}$: 50 40 190

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

$lab^*ob^*_{Ma}$: 0.0 1.0 0.69

$LAB^*cmyn^{*\circ}$

brilliantness i^*

relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 217/360 = 0.603$ $u^* = g50b$

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

elementary hue text: $u^* = g50b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 52 −31 −23

$LAB^*LCH^*_{Ma}$: 52 40 217

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

$lab^*ob^*_{Ma}$: 0.0 1.0 0.9

$LAB^*cmyn^{*\circ}$

brilliantness i^*

relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 244/360 = 0.679$ $u^* = g75b$

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

elementary hue text: $u^* = g75b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 47 −16 −35

$LAB^*LCH^*_{Ma}$: 47 40 244

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

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

$LAB^*cmyn^{*\circ}$

brilliantness i^*

relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 272/360 = 0.755$ $u^* = b00r$

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

elementary hue text: $u^* = b00r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 38 1 −41

$LAB^*LCH^*_{Ma}$: 38 42 272

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

$lab^*ob^*_{Ma}$: 0.0 0.62 1.0

$LAB^*cmyn^{*\circ}$

brilliantness i^*

relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 300/360 = 0.834$ $u^* = b25r$

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

elementary hue text: $u^* = b25r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 24 30 −51

$LAB^*LCH^*_{Ma}$: 24 60 300

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

$lab^*ob^*_{Ma}$: 0.0 0.25 1.0

$LAB^*cmyn^{*\circ}$

brilliantness i^*

relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 329/360 = 0.913$ $u^* = b50r$

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

elementary hue text: $u^* = b50r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 30 69 −41

$LAB^*LCH^*_{Ma}$: 30 81 329

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

$lab^*ob^*_{Ma}$: 0.66 0.0 1.0

$LAB^*cmyn^{*\circ}$

brilliantness i^*

relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS09_92aM for relative CIELAB hue $h^* = lab^*b^* = h_{ab}/360 = 357/360 = 0.992$ $u^* = b75r$

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

elementary hue text: $u^* = b75r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 36 71 −3

$LAB^*LCH^*_{Ma}$: 36 72 357

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

$lab^*ob^*_{Ma}$: 1.0 0.0 0.62

$LAB^*cmyn^{*\circ}$

brilliantness i^*

relative chroma c^*