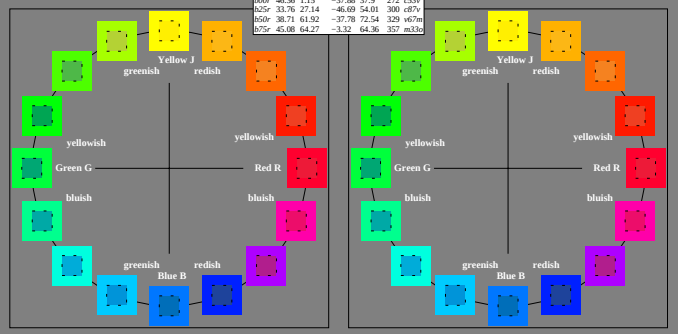
Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_E and number *no.* = 00 .. 15
elementary hue text:
u^*_E = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 0.9

FRS12_95a: adapted (a) CIELAB data						
u^*_E	$L^*=L^*_E$	a^*_E	b^*_E	$C^*_{ab,E}$	$h^*_{ab,E}$	u^*_E
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*

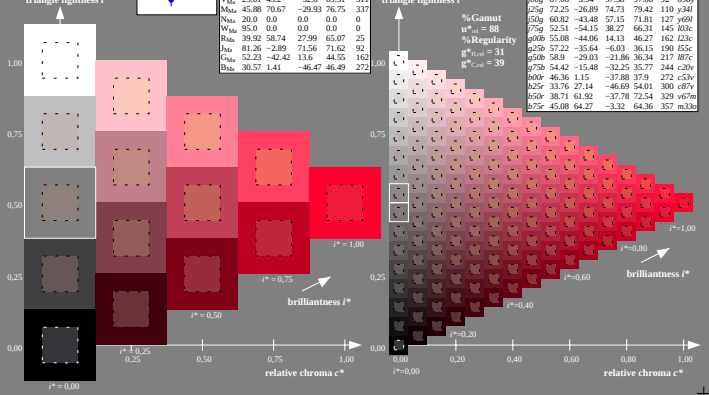
FRS12_95a: adapted (a) CIELAB data						
Name	$L^*=L^*_E$	a^*_E	b^*_E	$C^*_{ab,E}$	$h^*_{ab,E}$	u^*_E
O_{Ma}	43.8	53.91	39.75	66.98	36	
Y_{Ma}	87.58	−4.65	98.29	98.4	93	
L_{Ma}	51.95	−56.34	43.53	71.2	142	
C_{Ma}	59.62	−26.2	−28.62	38.8	228	
V_{Ma}	25.01	45.2	−52.8	69.51	311	
M_{Ma}	45.88	70.67	−29.93	76.75	337	
N_{Ma}	20.0	0.0	0.0	0.0	0	
W_{Ma}	95.0	0.0	0.0	0.0	0	
R_{CIE}	39.92	58.74	27.99	65.07	25	
I_{CIE}	81.26	−2.89	71.56	71.62	92	
G_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ u^*_E = *r00j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *r00j* u^*_A = *m81o*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 44 57 27
*LAB*LCH**$_{Ma}$: 44 63 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.18

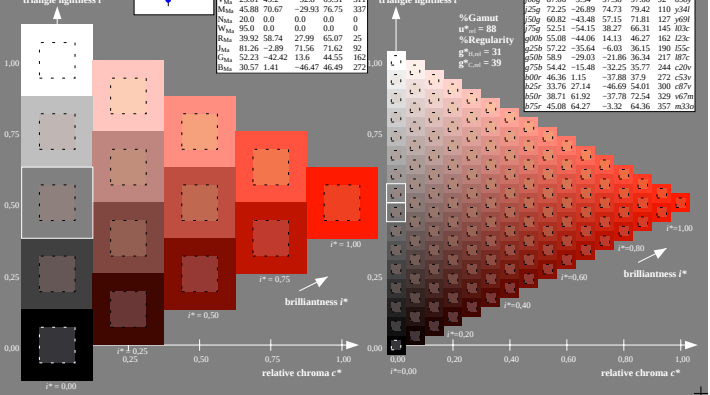
%Gamut
u^*_{sol} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ u^*_E = *r25j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *r25j* u^*_A = *o10y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 47 49 45
*LAB*LCH**$_{Ma}$: 47 66 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.1 0.0

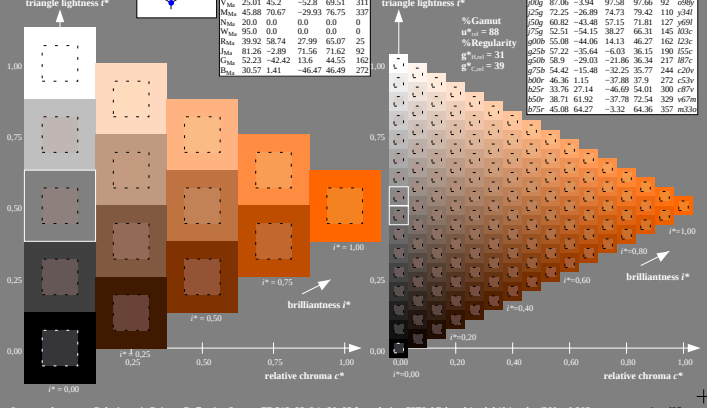
%Gamut
u^*_{sol} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ u^*_E = *r50j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *r50j* u^*_A = *o40y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 58 35 58
*LAB*LCH**$_{Ma}$: 58 68 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.4 0.0

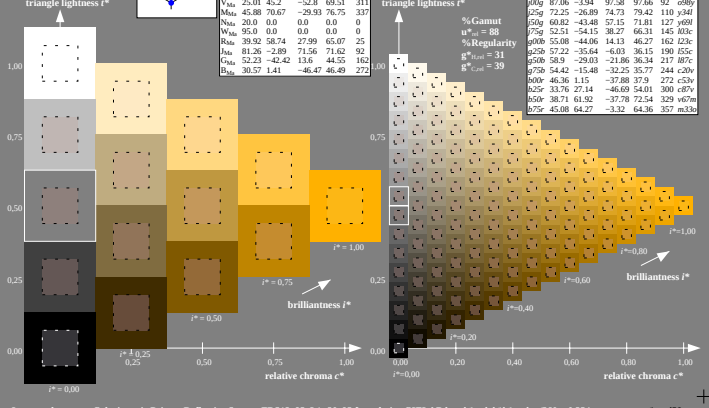
%Gamut
u^*_{sol} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ u^*_E = *r75j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *r75j* u^*_A = *o69y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 70 19 75
*LAB*LCH**$_{Ma}$: 70 77 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.7 0.0

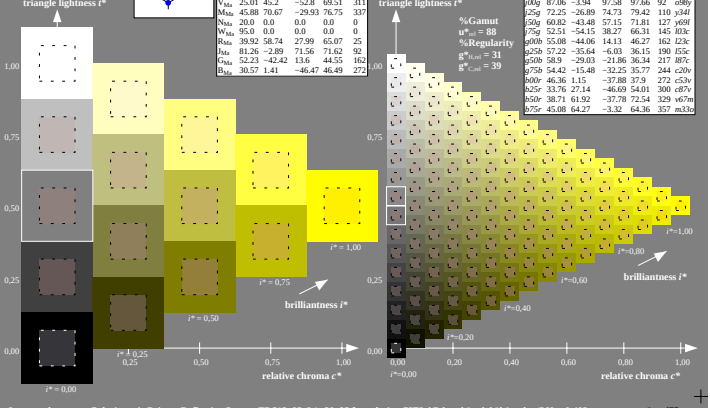
%Gamut
u^*_{sol} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ u^*_E = *j00g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *j00g* u^*_A = *o98y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −4 98
*LAB*LCH**$_{Ma}$: 87 98 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.99 0.0

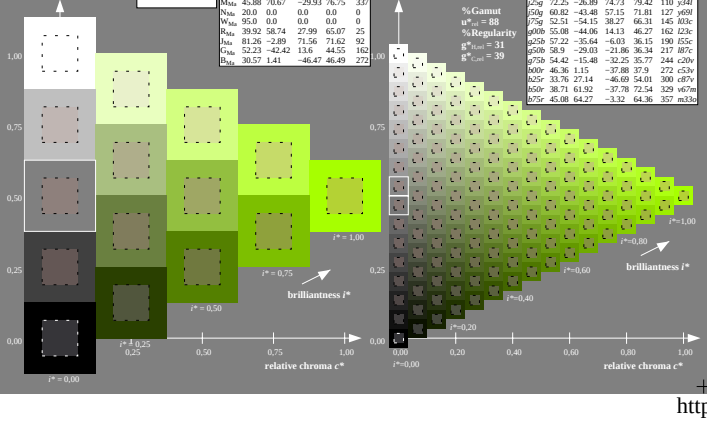
%Gamut
u^*_{sol} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ u^*_E = *j25g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *j25g* u^*_A = *y34l*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 72 −27 75
*LAB*LCH**$_{Ma}$: 72 79 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.66 1.0 0.0

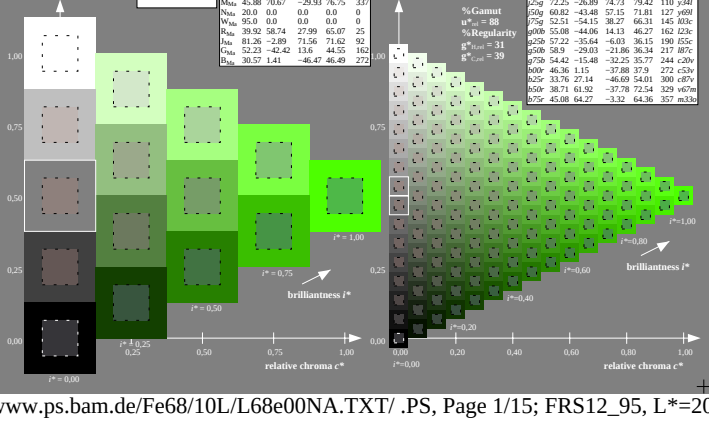
%Gamut
u^*_{sol} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ u^*_E = *j50g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *j50g* u^*_A = *y69l*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 61 −43 57
*LAB*LCH**$_{Ma}$: 61 72 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.3 1.0 0.0

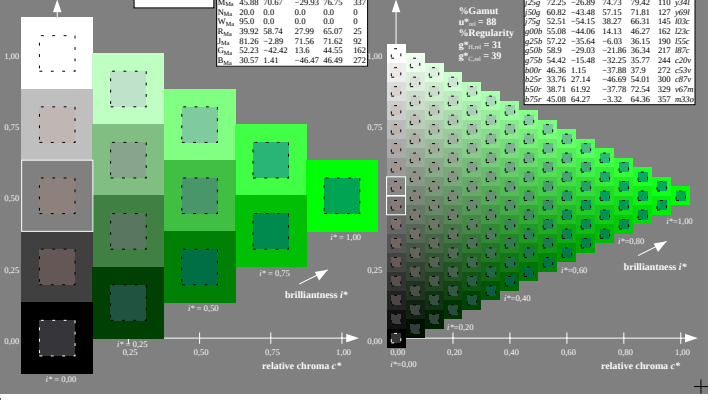
%Gamut
u^*_{sol} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ u^*_E = *j75g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *j75g* u^*_A = *l03c*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 53 −54 38
*LAB*LCH**$_{Ma}$: 53 66 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.03

%Gamut
u^*_{sol} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39



Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_a and number *no.* = 00 .. 15
elementary hue text:
u^*_b = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 0.9

FRS12_95a; adapted (a) CIELAB data

u^*_a	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*

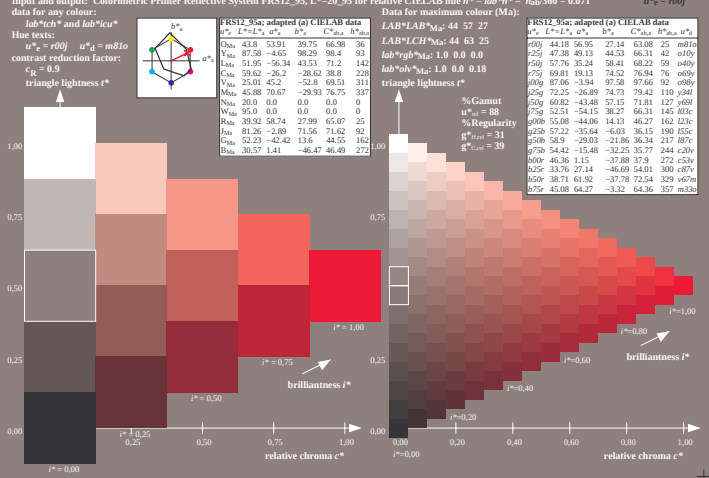
%Gamut
u^*_{sol} = 88
%Regularity
$g^*_{R,rel}$ = 31
$g^*_{C,rel}$ = 39

FRS12_95a; adapted (a) CIELAB data

Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
O_{Ma}	43.8	53.91	39.75	66.98	36	
Y_{Ma}	87.58	−4.65	98.29	98.4	93	
L_{Ma}	51.95	−56.34	43.53	71.2	142	
C_{Ma}	59.62	−26.2	−28.62	38.8	228	
V_{Ma}	25.01	45.2	−52.8	69.51	311	
M_{Ma}	45.88	70.67	−29.93	76.75	337	
N_{Ma}	20.0	0.0	0.0	0.0	0	
W_{Ma}	95.0	0.0	0.0	0.0	0	
R_{CIE}	39.92	58.74	27.99	65.07	25	
I_{CIE}	81.26	−2.89	71.56	71.62	92	
G_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

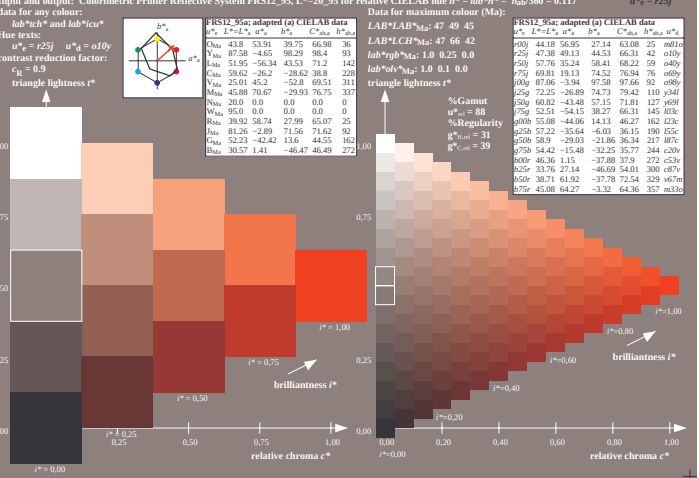
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ u^*_b = *r00j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_b = *r00j* u^*_a = *m81o*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 44 57 27
*LAB*LCH**$_{Ma}$: 44 63 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.18



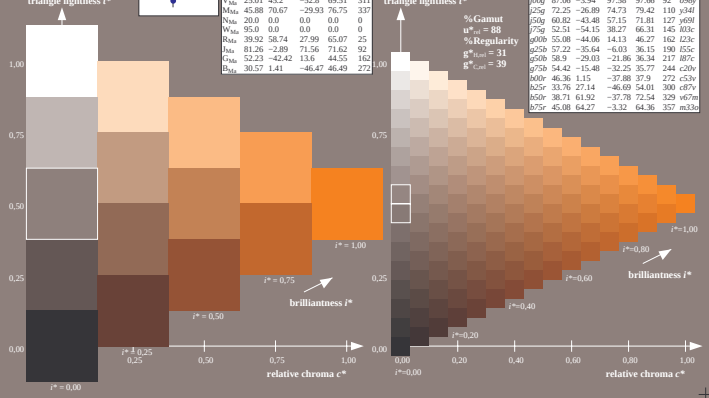
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ u^*_b = *r25j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_b = *r25j* u^*_a = *o10y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 47 49 45
*LAB*LCH**$_{Ma}$: 47 66 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.1 0.0



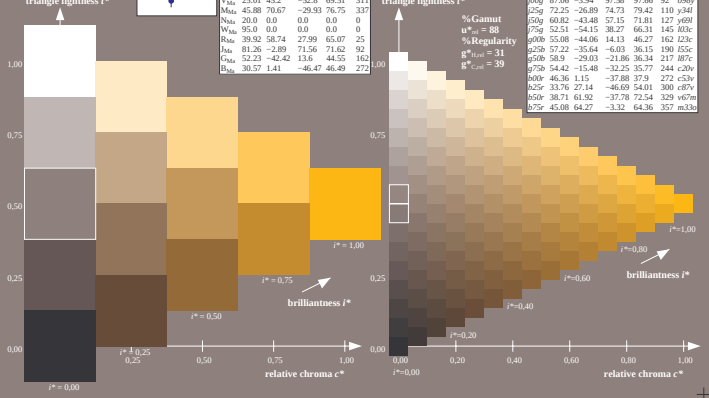
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ u^*_b = *r50j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_b = *r50j* u^*_a = *o40y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 58 35 58
*LAB*LCH**$_{Ma}$: 58 68 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.4 0.0



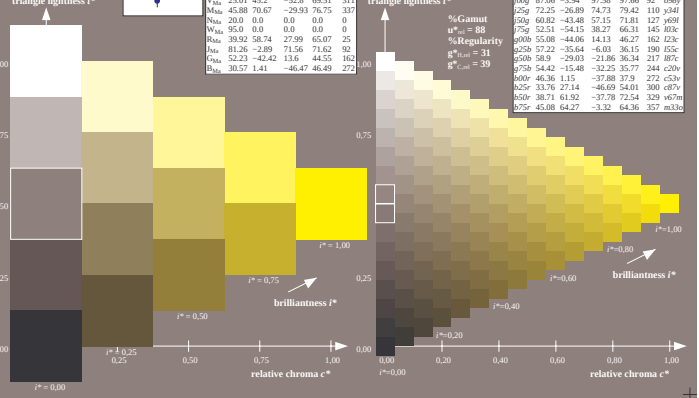
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ u^*_b = *r75j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_b = *r75j* u^*_a = *o69y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 70 19 75
*LAB*LCH**$_{Ma}$: 70 77 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.7 0.0



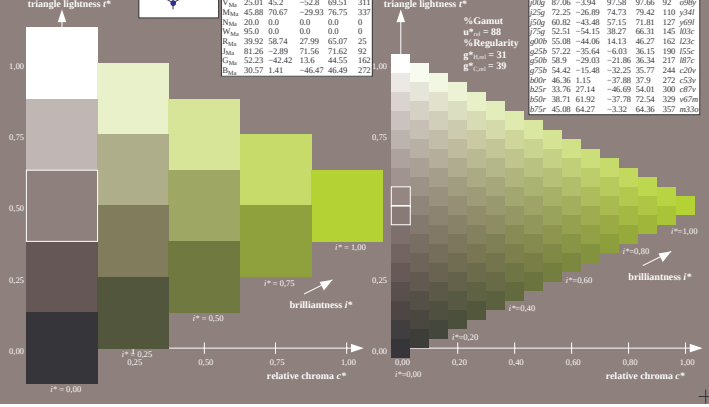
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ u^*_b = *j00g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_b = *j00g* u^*_a = *o98y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −4 98
*LAB*LCH**$_{Ma}$: 87 98 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.99 0.0



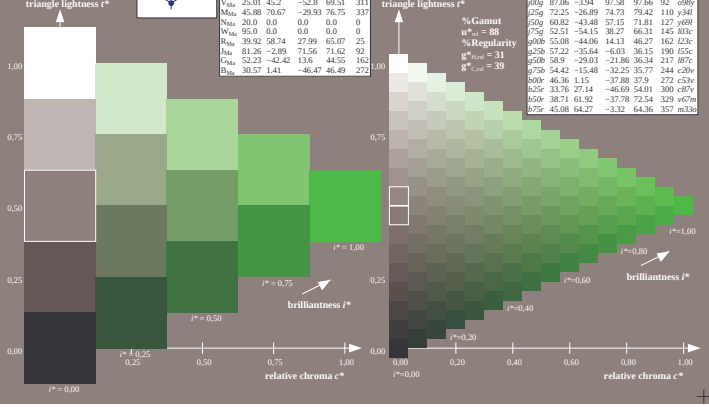
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ u^*_b = *j25g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_b = *j25g* u^*_a = *y34l*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 72 −27 75
*LAB*LCH**$_{Ma}$: 72 79 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.66 1.0 0.0



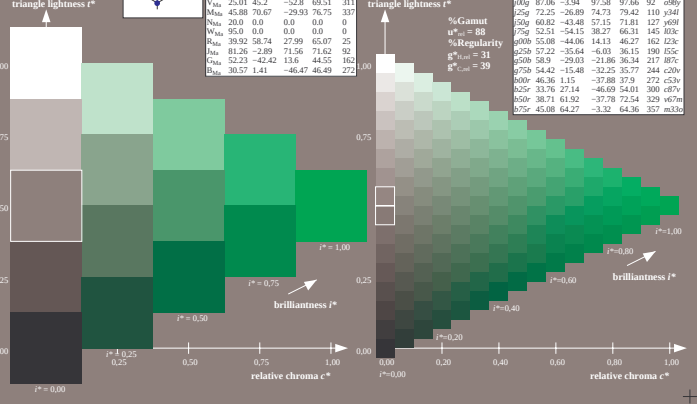
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ u^*_b = *j50g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_b = *j50g* u^*_a = *y69l*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 61 −43 57
*LAB*LCH**$_{Ma}$: 61 72 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.3 1.0 0.0



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ u^*_b = *j75g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_b = *j75g* u^*_a = *l03c*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

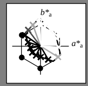
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 53 −54 38
*LAB*LCH**$_{Ma}$: 53 66 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.03



Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_e and number *no.* = 00 .. 15
elementary hue text:
u^*_e = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 0.9

FRS12_95a; adapted (a) CIELAB data

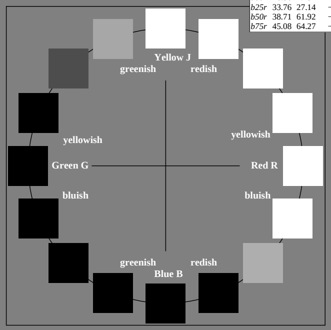
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*

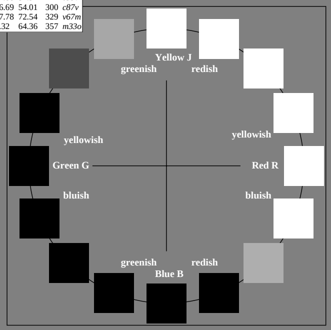


%Gamut
u^*_{rel} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39

FRS12_95a; adapted (a) CIELAB data

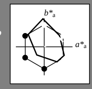
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	43.8	53.91	39.75	66.98	36
Y_{Ma}	87.58	−4.65	98.29	98.4	93
L_{Ma}	51.95	−56.34	43.53	71.2	142
C_{Ma}	59.62	−26.2	−28.62	38.8	228
V_{Ma}	25.01	45.2	−52.8	69.51	311
M_{Ma}	45.88	70.67	−29.93	76.75	337
N_{Ma}	20.0	0.0	0.0	0.0	0
W_{Ma}	95.0	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272





Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.071 — u^*_e = *r00j*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r00j* u^*_d = *m81o*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

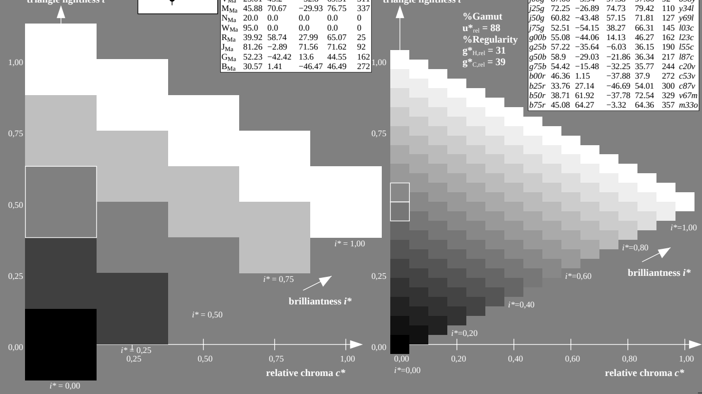
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	43.8	53.91	39.75	66.98	36
Y_{Ma}	87.58	−4.65	98.29	98.4	93
L_{Ma}	51.95	−56.34	43.53	71.2	142
C_{Ma}	59.62	−26.2	−28.62	38.8	228
V_{Ma}	25.01	45.2	−52.8	69.51	311
M_{Ma}	45.88	70.67	−29.93	76.75	337
N_{Ma}	20.0	0.0	0.0	0.0	0
W_{Ma}	95.0	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 44 57 27
*LAB*LCH**$_{Ma}$: 44 63 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.18
triangle lightness *t**

%Gamut
u^*_{rel} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39

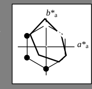
FRS12_95a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.117 — u^*_e = *r25j*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r25j* u^*_d = *o10y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

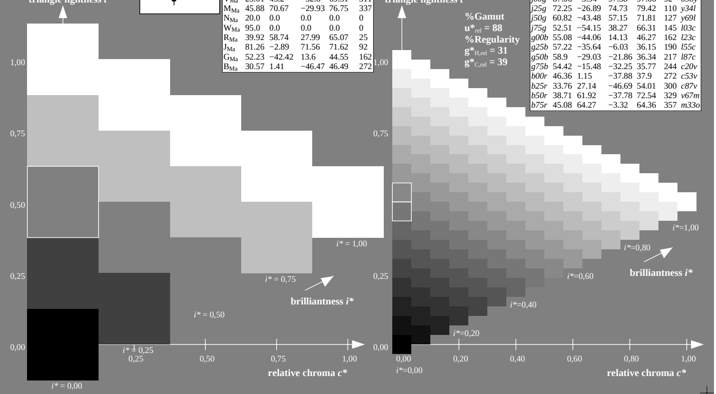
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	43.8	53.91	39.75	66.98	36
Y_{Ma}	87.58	−4.65	98.29	98.4	93
L_{Ma}	51.95	−56.34	43.53	71.2	142
C_{Ma}	59.62	−26.2	−28.62	38.8	228
V_{Ma}	25.01	45.2	−52.8	69.51	311
M_{Ma}	45.88	70.67	−29.93	76.75	337
N_{Ma}	20.0	0.0	0.0	0.0	0
W_{Ma}	95.0	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 47 49 45
*LAB*LCH**$_{Ma}$: 47 66 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.1 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39

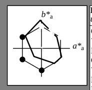
FRS12_95a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.164 — u^*_e = *r50j*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r50j* u^*_d = *o40y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

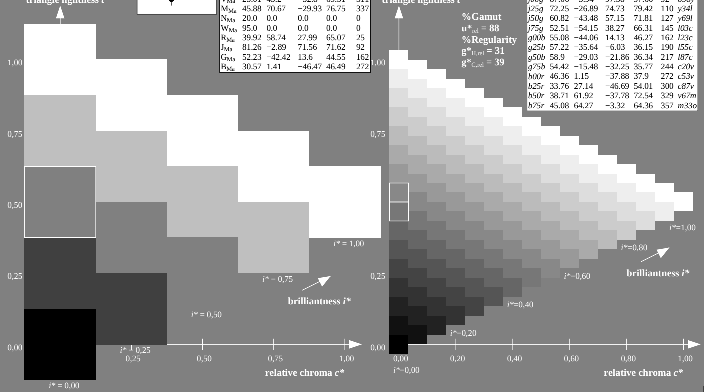
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	43.8	53.91	39.75	66.98	36
Y_{Ma}	87.58	−4.65	98.29	98.4	93
L_{Ma}	51.95	−56.34	43.53	71.2	142
C_{Ma}	59.62	−26.2	−28.62	38.8	228
V_{Ma}	25.01	45.2	−52.8	69.51	311
M_{Ma}	45.88	70.67	−29.93	76.75	337
N_{Ma}	20.0	0.0	0.0	0.0	0
W_{Ma}	95.0	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 58 35 58
*LAB*LCH**$_{Ma}$: 58 68 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.4 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39

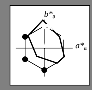
FRS12_95a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.21 — u^*_e = *r75j*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *r75j* u^*_d = *o69y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

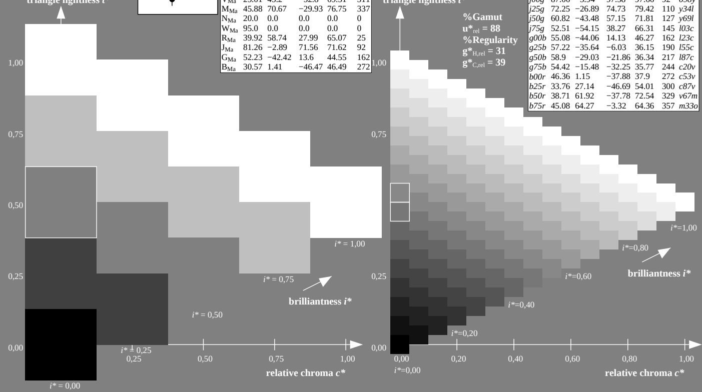
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	43.8	53.91	39.75	66.98	36
Y_{Ma}	87.58	−4.65	98.29	98.4	93
L_{Ma}	51.95	−56.34	43.53	71.2	142
C_{Ma}	59.62	−26.2	−28.62	38.8	228
V_{Ma}	25.01	45.2	−52.8	69.51	311
M_{Ma}	45.88	70.67	−29.93	76.75	337
N_{Ma}	20.0	0.0	0.0	0.0	0
W_{Ma}	95.0	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 70 19 75
*LAB*LCH**$_{Ma}$: 70 77 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.7 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39

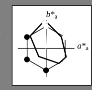
FRS12_95a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.256 — u^*_e = *j00g*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j00g* u^*_d = *o98y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

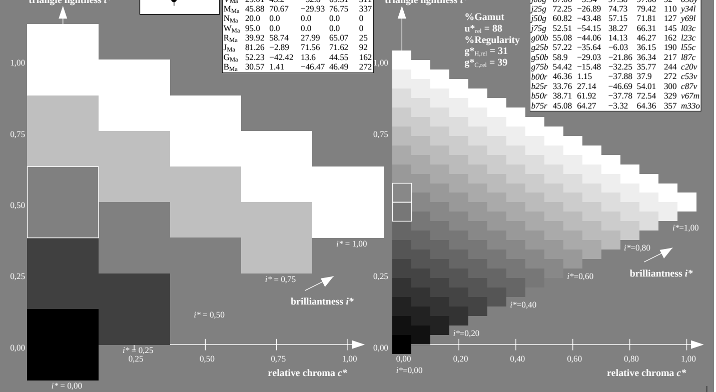
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	43.8	53.91	39.75	66.98	36
Y_{Ma}	87.58	−4.65	98.29	98.4	93
L_{Ma}	51.95	−56.34	43.53	71.2	142
C_{Ma}	59.62	−26.2	−28.62	38.8	228
V_{Ma}	25.01	45.2	−52.8	69.51	311
M_{Ma}	45.88	70.67	−29.93	76.75	337
N_{Ma}	20.0	0.0	0.0	0.0	0
W_{Ma}	95.0	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −4 98
*LAB*LCH**$_{Ma}$: 87 98 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.99 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39

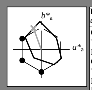
FRS12_95a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.305 — u^*_e = *j25g*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j25g* u^*_d = *y34l*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

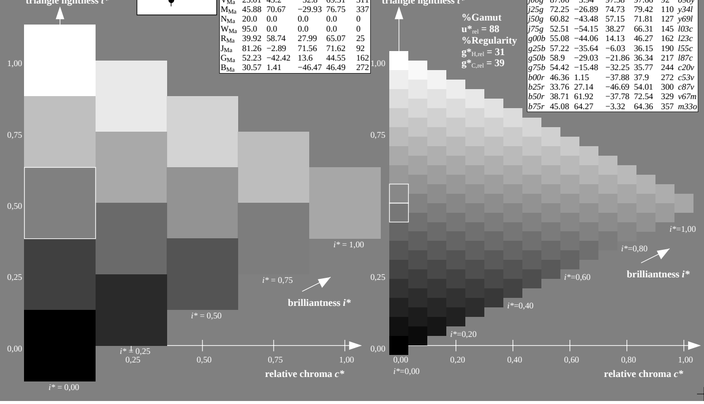
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	43.8	53.91	39.75	66.98	36
Y_{Ma}	87.58	−4.65	98.29	98.4	93
L_{Ma}	51.95	−56.34	43.53	71.2	142
C_{Ma}	59.62	−26.2	−28.62	38.8	228
V_{Ma}	25.01	45.2	−52.8	69.51	311
M_{Ma}	45.88	70.67	−29.93	76.75	337
N_{Ma}	20.0	0.0	0.0	0.0	0
W_{Ma}	95.0	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 72 −27 75
*LAB*LCH**$_{Ma}$: 72 79 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.66 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39

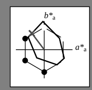
FRS12_95a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.354 — u^*_e = *j50g*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j50g* u^*_d = *y69l*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

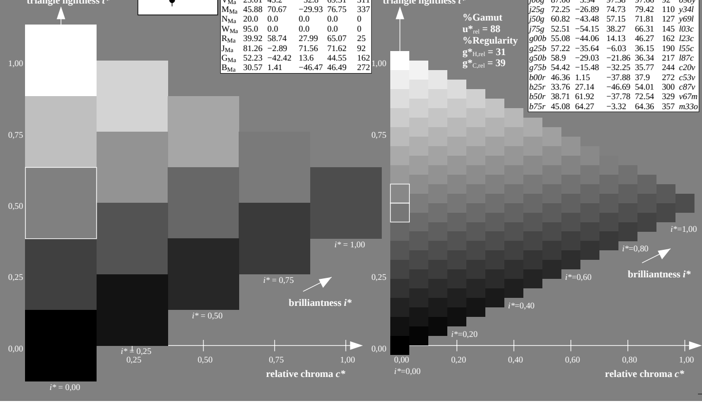
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	43.8	53.91	39.75	66.98	36
Y_{Ma}	87.58	−4.65	98.29	98.4	93
L_{Ma}	51.95	−56.34	43.53	71.2	142
C_{Ma}	59.62	−26.2	−28.62	38.8	228
V_{Ma}	25.01	45.2	−52.8	69.51	311
M_{Ma}	45.88	70.67	−29.93	76.75	337
N_{Ma}	20.0	0.0	0.0	0.0	0
W_{Ma}	95.0	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 61 −43 57
*LAB*LCH**$_{Ma}$: 61 72 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.3 1.0 0.0
triangle lightness *t**

%Gamut
u^*_{rel} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39

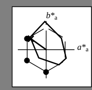
FRS12_95a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue *h** = *lab*h** = h_{ab}/360 = 0.402 — u^*_e = *j75g*

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = *j75g* u^*_d = *l03c*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**



FRS12_95a; adapted (a) CIELAB data

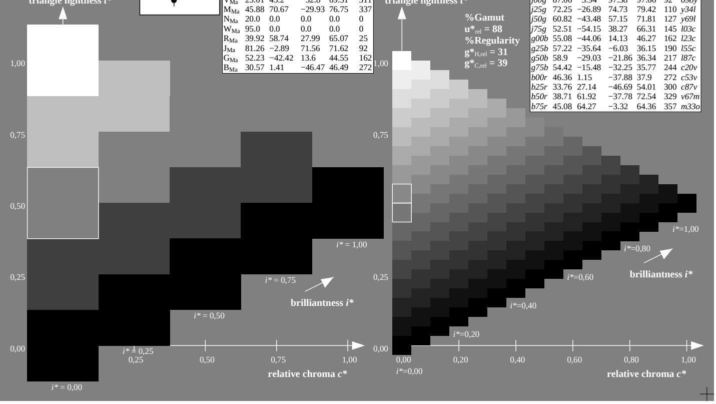
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	43.8	53.91	39.75	66.98	36
Y_{Ma}	87.58	−4.65	98.29	98.4	93
L_{Ma}	51.95	−56.34	43.53	71.2	142
C_{Ma}	59.62	−26.2	−28.62	38.8	228
V_{Ma}	25.01	45.2	−52.8	69.51	311
M_{Ma}	45.88	70.67	−29.93	76.75	337
N_{Ma}	20.0	0.0	0.0	0.0	0
W_{Ma}	95.0	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 53 −54 38
*LAB*LCH**$_{Ma}$: 53 66 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.03
triangle lightness *t**

%Gamut
u^*_{rel} = 88
%Regularity
$g^*_{H,rel}$ = 31
$g^*_{C,rel}$ = 39

FRS12_95a; adapted (a) CIELAB data

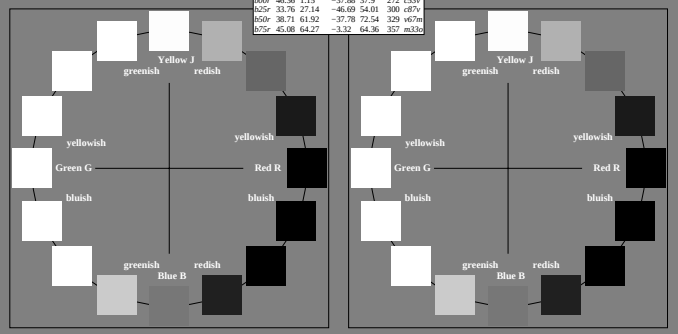
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*



Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_e and number *no.* = 00 .. 15
elementary hue text:
u^*_e = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 0.9

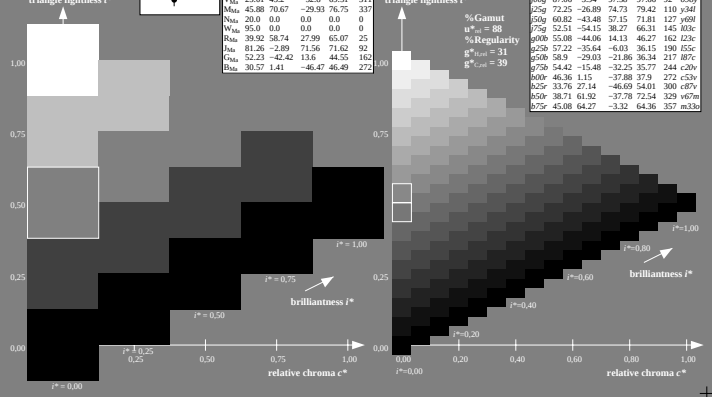
FRS12_95a: adapted (a) CIELAB data							
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a	
r00j	44.18	56.95	27.14	63.08	25	*m81o*	
r25j	47.38	49.13	44.53	66.31	42	*o10y*	
r50j	57.76	35.24	58.41	68.22	59	*o40y*	
r75j	69.81	19.13	74.52	76.94	76	*o69y*	
y00g	87.06	−3.94	97.58	97.66	92	*o98y*	
y25g	72.25	−26.89	74.73	79.42	110	*y34l*	
y50g	60.82	−43.48	57.15	71.81	127	*y69l*	
y75g	52.51	−54.15	38.27	66.31	145	*l03c*	
g00b	55.08	−44.06	14.13	46.27	162	*l23c*	
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*	
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*	
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*	
b00r	46.36	1.15	−37.88	37.9	272	*c53v*	
b25r	33.76	27.14	−46.69	54.01	300	*c87v*	
b50r	38.71	61.92	−37.78	72.54	329	*v67m*	
b75r	45.08	64.27	−3.32	64.36	357	*m33o*	

FRS12_95a: adapted (a) CIELAB data							
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$		
O_{Ma}	43.8	53.91	39.75	66.98	36		
Y_{Ma}	87.58	−4.65	98.29	98.4	93		
L_{Ma}	51.95	−56.34	43.53	71.2	142		
C_{Ma}	59.62	−26.2	−28.62	38.8	228		
V_{Ma}	25.01	45.2	−52.8	69.51	311		
M_{Ma}	45.88	70.67	−29.93	76.75	337		
N_{Ma}	20.0	0.0	0.0	0.0	0		
W_{Ma}	95.0	0.0	0.0	0.0	0		
R_{CIE}	39.92	58.74	27.99	65.07	25		
J_{CIE}	81.26	−2.89	71.56	71.62	92		
G_{CIE}	52.23	−42.42	13.6	44.55	162		
B_{CIE}	30.57	1.41	−46.47	46.49	272		



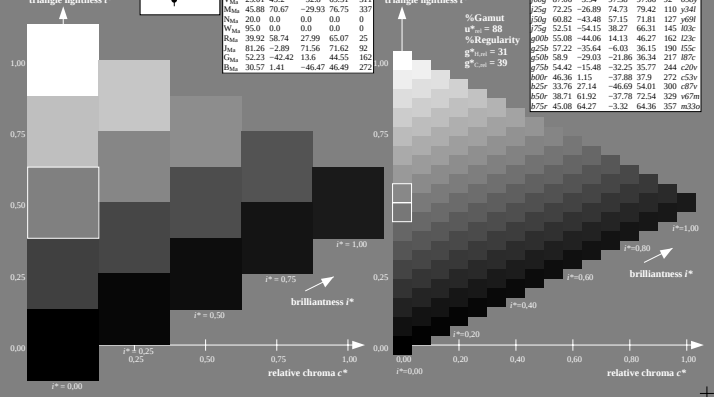
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^*$ = $h_{ab}/360$ = 0.071 u^*_e = *r00j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_e = *r00j* u^*_a = *m81o*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 44 57 27
*LAB*LCH**$_{Ma}$: 44 63 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.18



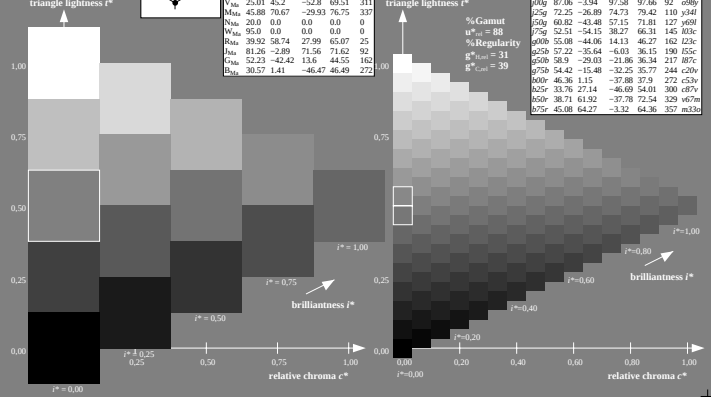
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^*$ = $h_{ab}/360$ = 0.117 u^*_e = *r25j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_e = *r25j* u^*_a = *o10y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 47 49 45
*LAB*LCH**$_{Ma}$: 47 66 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.1 0.0



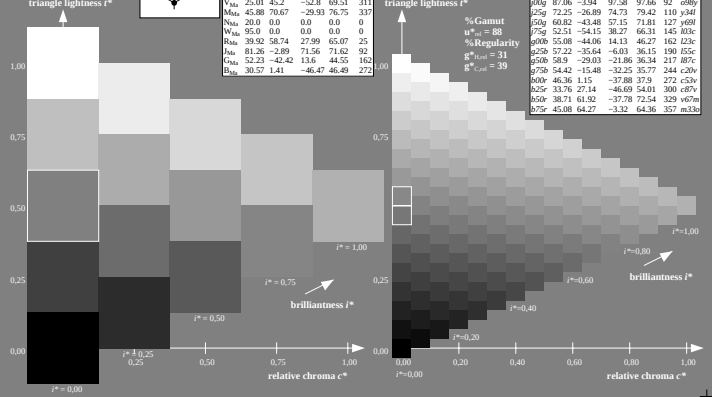
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^*$ = $h_{ab}/360$ = 0.164 u^*_e = *r50j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_e = *r50j* u^*_a = *o40y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 58 35 58
*LAB*LCH**$_{Ma}$: 58 68 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.4 0.0



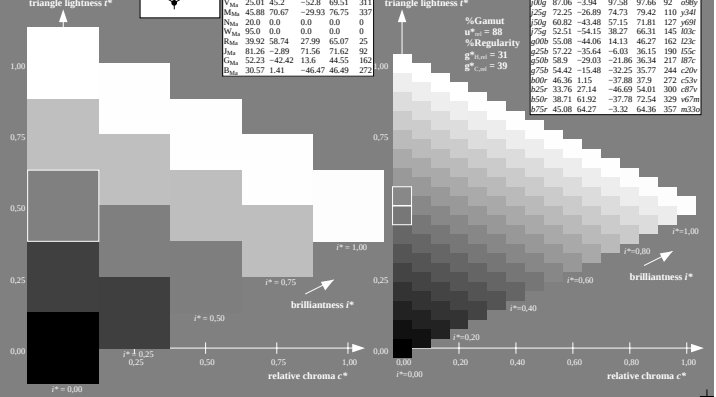
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^*$ = $h_{ab}/360$ = 0.21 u^*_e = *r75j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_e = *r75j* u^*_a = *o69y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 70 19 75
*LAB*LCH**$_{Ma}$: 70 77 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.7 0.0



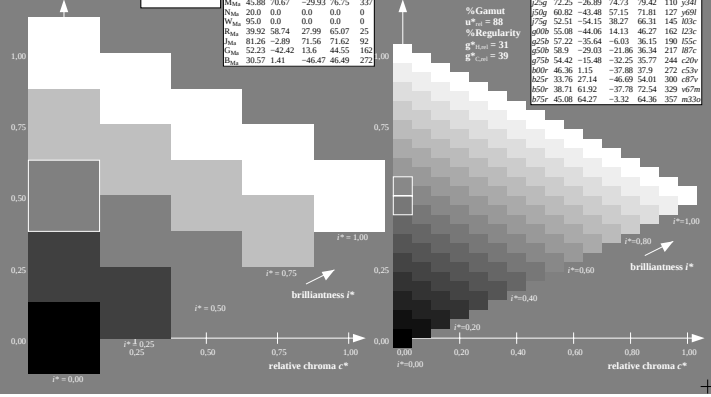
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^*$ = $h_{ab}/360$ = 0.256 u^*_e = *j00g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_e = *j00g* u^*_a = *o98y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −4 98
*LAB*LCH**$_{Ma}$: 87 98 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.99 0.0



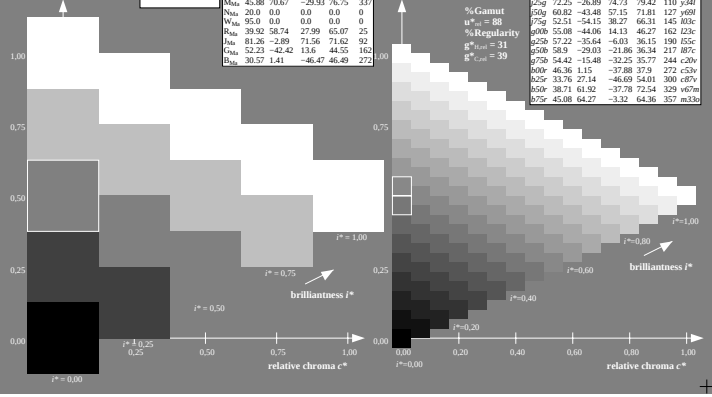
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^*$ = $h_{ab}/360$ = 0.305 u^*_e = *j25g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_e = *j25g* u^*_a = *y34l*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 72 −27 75
*LAB*LCH**$_{Ma}$: 72 79 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.66 1.0 0.0



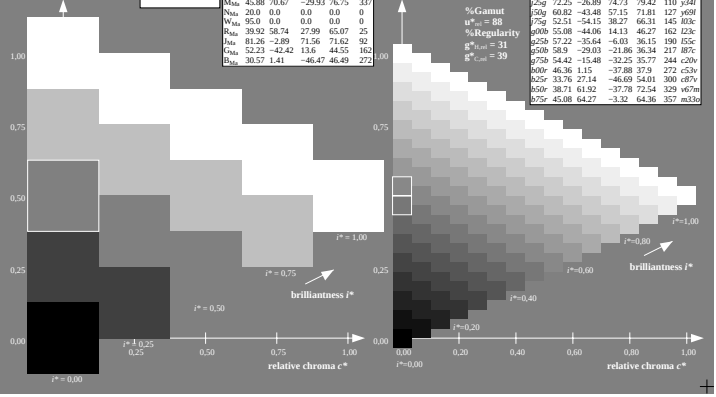
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^*$ = $h_{ab}/360$ = 0.354 u^*_e = *j50g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_e = *j50g* u^*_a = *y69l*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 61 −43 57
*LAB*LCH**$_{Ma}$: 61 72 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.3 1.0 0.0



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^*$ = $h_{ab}/360$ = 0.402 u^*_e = *j75g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_e = *j75g* u^*_a = *l03c*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 53 −54 38
*LAB*LCH**$_{Ma}$: 53 66 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.0 1.0 0.03



Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_E and number *no.* = 00 .. 15
elementary hue text:
u^*_E = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 0.9

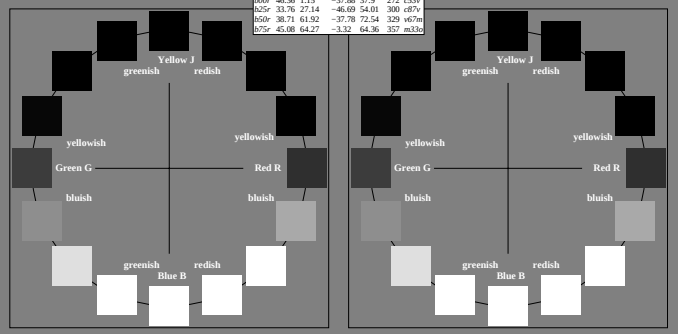
FRS12_95a: adapted (a) CIELAB data

u^*_E	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*

FRS12_95a: adapted (a) CIELAB data

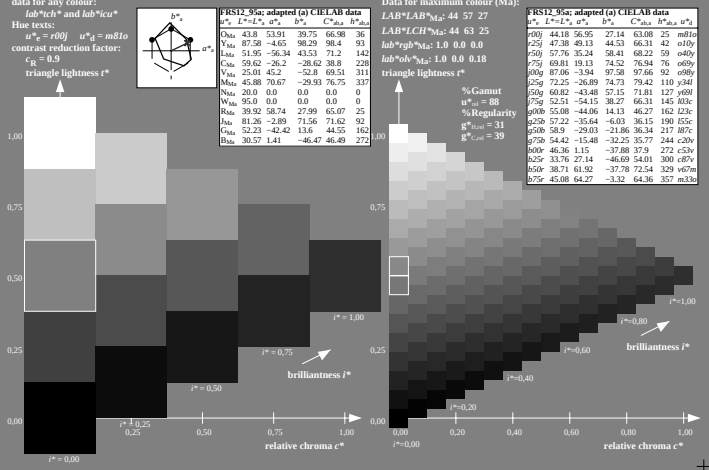
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	43.8	53.91	39.75	66.98	36
Y_{Ma}	87.58	−4.65	98.29	98.4	93
L_{Ma}	51.95	−56.34	43.53	71.2	142
C_{Ma}	59.62	−26.2	−28.62	38.8	228
V_{Ma}	25.01	45.2	−52.8	69.51	311
M_{Ma}	45.88	70.67	−29.93	76.75	337
N_{Ma}	20.0	0.0	0.0	0.0	0
W_{Ma}	95.0	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
I_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272

%Gamut
u^*_{col} = 88
%Regularity
$g^*_{E,col}$ = 31
$g^*_{C,col}$ = 39



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ u^*_E = *r00j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *r00j* u^*_A = *m81o*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB*$^*_{Ma}$: 44 57 27
*LAB*LCH*$^*_{Ma}$: 44 63 25
*lab*rgb*$^*_{Ma}$: 1.0 0.0 0.0
*lab*olv*$^*_{Ma}$: 1.0 0.0 0.18

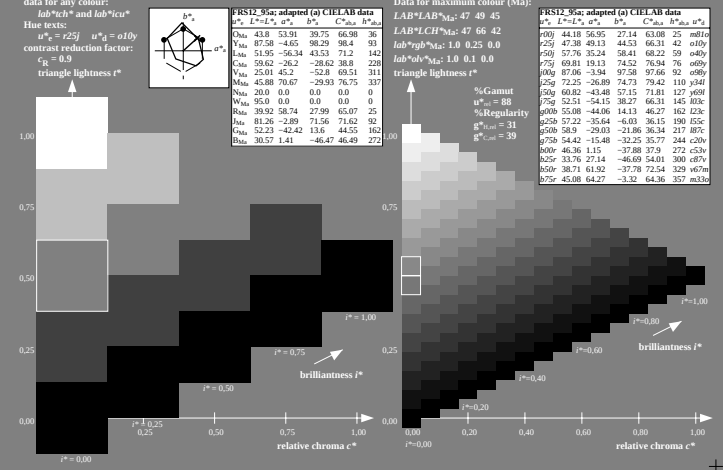


FRS12_95a: adapted (a) CIELAB data

u^*_E	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ u^*_E = *r25j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *r25j* u^*_A = *o10y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB*$^*_{Ma}$: 47 49 45
*LAB*LCH*$^*_{Ma}$: 47 66 42
*lab*rgb*$^*_{Ma}$: 1.0 0.25 0.0
*lab*olv*$^*_{Ma}$: 1.0 0.1 0.0

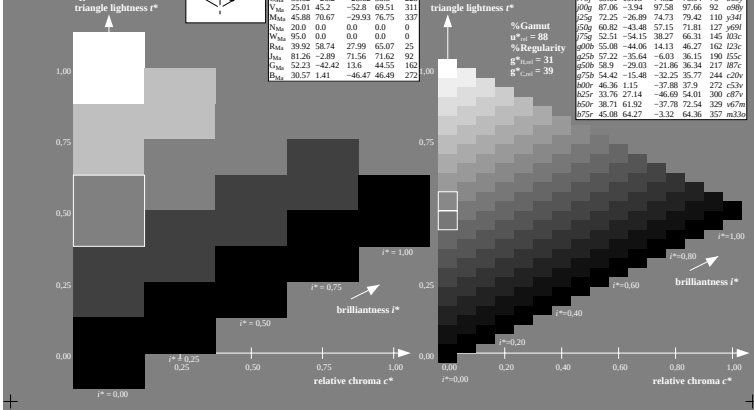


FRS12_95a: adapted (a) CIELAB data

u^*_E	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ u^*_E = *r50j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *r50j* u^*_A = *o40y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB*$^*_{Ma}$: 58 35 58
*LAB*LCH*$^*_{Ma}$: 58 68 58
*lab*rgb*$^*_{Ma}$: 1.0 0.5 0.0
*lab*olv*$^*_{Ma}$: 1.0 0.4 0.0

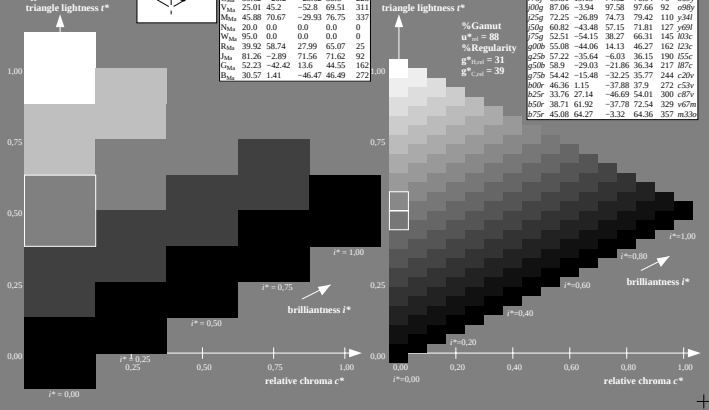


FRS12_95a: adapted (a) CIELAB data

u^*_E	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ u^*_E = *r75j*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *r75j* u^*_A = *o69y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB*$^*_{Ma}$: 70 19 75
*LAB*LCH*$^*_{Ma}$: 70 77 75
*lab*rgb*$^*_{Ma}$: 1.0 0.75 0.0
*lab*olv*$^*_{Ma}$: 1.0 0.7 0.0

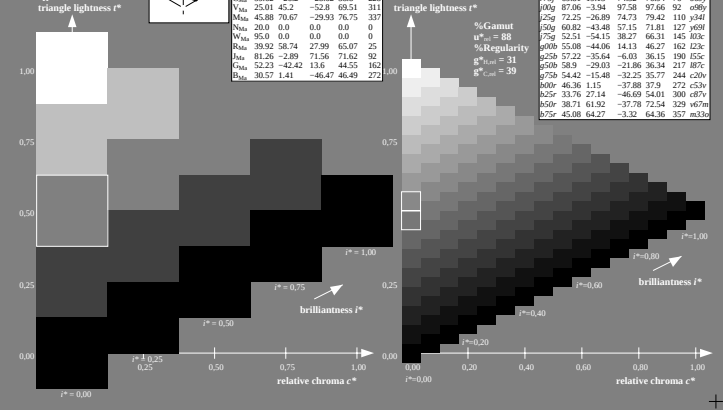


FRS12_95a: adapted (a) CIELAB data

u^*_E	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ u^*_E = *j00g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *j00g* u^*_A = *o98y*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB*$^*_{Ma}$: 87 −4 98
*LAB*LCH*$^*_{Ma}$: 87 98 92
*lab*rgb*$^*_{Ma}$: 1.0 1.0 0.0
*lab*olv*$^*_{Ma}$: 1.0 0.99 0.0

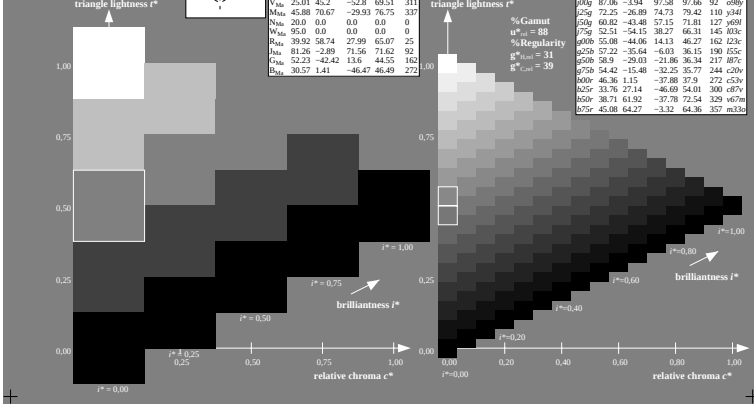


FRS12_95a: adapted (a) CIELAB data

u^*_E	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ u^*_E = *j25g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *j25g* u^*_A = *y34l*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB*$^*_{Ma}$: 72 −27 75
*LAB*LCH*$^*_{Ma}$: 72 79 109
*lab*rgb*$^*_{Ma}$: 0.75 1.0 0.0
*lab*olv*$^*_{Ma}$: 0.66 1.0 0.0

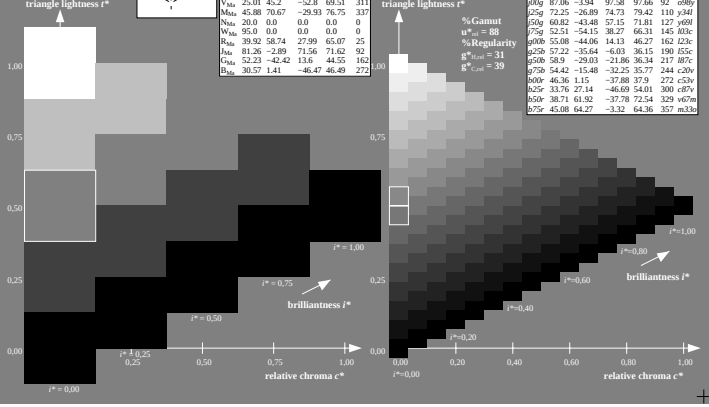


FRS12_95a: adapted (a) CIELAB data

u^*_E	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ u^*_E = *j50g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *j50g* u^*_A = *y69l*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB*$^*_{Ma}$: 61 −43 57
*LAB*LCH*$^*_{Ma}$: 61 72 127
*lab*rgb*$^*_{Ma}$: 0.5 1.0 0.0
*lab*olv*$^*_{Ma}$: 0.3 1.0 0.0

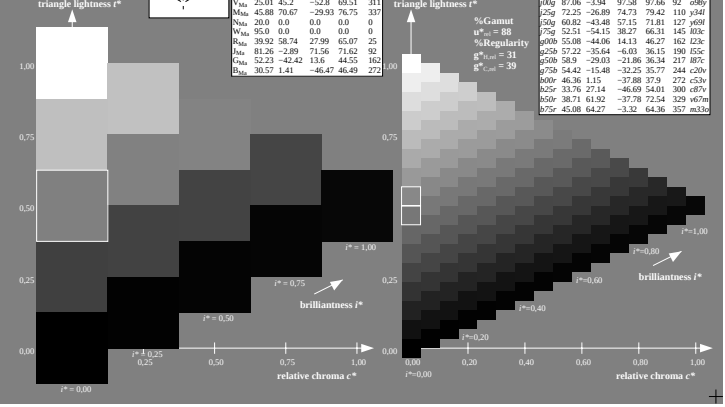


FRS12_95a: adapted (a) CIELAB data

u^*_E	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ u^*_E = *j75g*
data for any colour:
*lab*ch** and *lab*icu**
Hue texts:
u^*_E = *j75g* u^*_A = *l03c*
contrast reduction factor:
c_R = 0.9
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB*$^*_{Ma}$: 53 −54 38
*LAB*LCH*$^*_{Ma}$: 53 66 144
*lab*rgb*$^*_{Ma}$: 0.25 1.0 0.0
*lab*olv*$^*_{Ma}$: 0.0 1.0 0.03

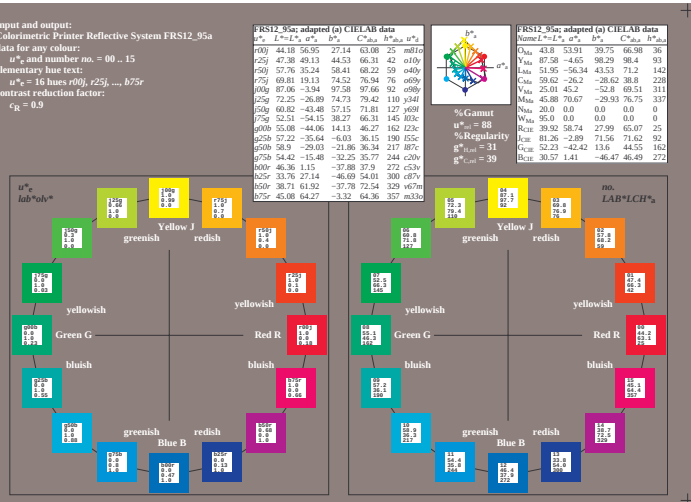


FRS12_95a: adapted (a) CIELAB data

u^*_E	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
j00g	87.06	−3.94	97.58	97.66	92	*o98y*
j25g	72.25	−26.89	74.73	79.42	110	*y34l*
j50g	60.82	−43.48	57.15	71.81	127	*y69l*
j75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*

Black separation empty

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ $u^*_e = r00j$ lab^*olv^*
data for any colour: lab^*lch^* and lab^*icu^*
Hue texts: $u^*_e = r00j$ $u^*_d = m81o$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 44 57 27 $LAB^*LCH^*_{Ma}$: 44 63 25 $lab^*rgb^*_{Ma}$: 1.0 0.0 0.0 $lab^*olv^*_{Ma}$: 1.0 0.0 0.18
%Gamut $u^*_{inf} = 88$ %Regularity $g^*_{H,inf} = 31$ $g^*_{C,inf} = 39$
brilliantness i^*
relative chroma c^*



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ $u^*_e = r25j$ lab^*olv^*
data for any colour: lab^*lch^* and lab^*icu^*
Hue texts: $u^*_e = r25j$ $u^*_d = o10y$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 47 49 45 $LAB^*LCH^*_{Ma}$: 47 66 42 $lab^*rgb^*_{Ma}$: 1.0 0.25 0.0 $lab^*olv^*_{Ma}$: 1.0 0.1 0.0
%Gamut $u^*_{inf} = 88$ %Regularity $g^*_{H,inf} = 31$ $g^*_{C,inf} = 39$
brilliantness i^*
relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ $u^*_e = r50j$ lab^*olv^*
data for any colour: lab^*lch^* and lab^*icu^*
Hue texts: $u^*_e = r50j$ $u^*_d = o40y$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 58 35 58 $LAB^*LCH^*_{Ma}$: 58 68 58 $lab^*rgb^*_{Ma}$: 1.0 0.5 0.0 $lab^*olv^*_{Ma}$: 1.0 0.4 0.0
%Gamut $u^*_{inf} = 88$ %Regularity $g^*_{H,inf} = 31$ $g^*_{C,inf} = 39$
brilliantness i^*
relative chroma c^*

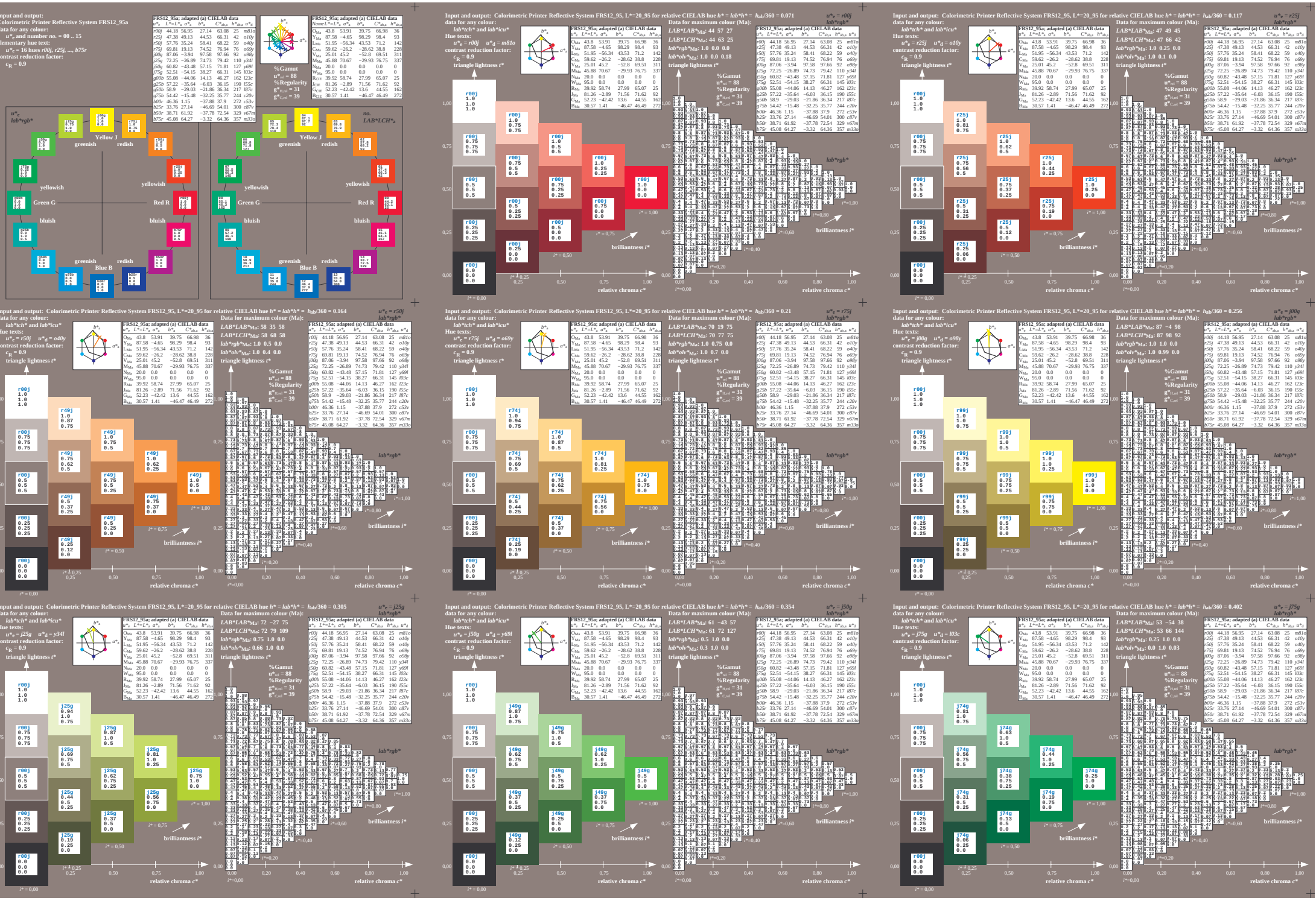
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ $u^*_e = r75j$ lab^*olv^*
data for any colour: lab^*lch^* and lab^*icu^*
Hue texts: $u^*_e = r75j$ $u^*_d = o69y$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 70 19 75 $LAB^*LCH^*_{Ma}$: 70 77 75 $lab^*rgb^*_{Ma}$: 1.0 0.75 0.0 $lab^*olv^*_{Ma}$: 1.0 0.7 0.0
%Gamut $u^*_{inf} = 88$ %Regularity $g^*_{H,inf} = 31$ $g^*_{C,inf} = 39$
brilliantness i^*
relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ $u^*_e = j00g$ lab^*olv^*
data for any colour: lab^*lch^* and lab^*icu^*
Hue texts: $u^*_e = j00g$ $u^*_d = o98y$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 87 −4 98 $LAB^*LCH^*_{Ma}$: 87 98 92 $lab^*rgb^*_{Ma}$: 1.0 1.0 0.0 $lab^*olv^*_{Ma}$: 1.0 0.99 0.0
%Gamut $u^*_{inf} = 88$ %Regularity $g^*_{H,inf} = 31$ $g^*_{C,inf} = 39$
brilliantness i^*
relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ $u^*_e = j25g$ lab^*olv^*
data for any colour: lab^*lch^* and lab^*icu^*
Hue texts: $u^*_e = j25g$ $u^*_d = y34l$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 72 −27 75 $LAB^*LCH^*_{Ma}$: 72 79 109 $lab^*rgb^*_{Ma}$: 0.75 1.0 0.0 $lab^*olv^*_{Ma}$: 0.66 1.0 0.0
%Gamut $u^*_{inf} = 88$ %Regularity $g^*_{H,inf} = 31$ $g^*_{C,inf} = 39$
brilliantness i^*
relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ $u^*_e = j50g$ lab^*olv^*
data for any colour: lab^*lch^* and lab^*icu^*
Hue texts: $u^*_e = j50g$ $u^*_d = y69l$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 61 −43 57 $LAB^*LCH^*_{Ma}$: 61 72 127 $lab^*rgb^*_{Ma}$: 0.5 1.0 0.0 $lab^*olv^*_{Ma}$: 0.3 1.0 0.0
%Gamut $u^*_{inf} = 88$ %Regularity $g^*_{H,inf} = 31$ $g^*_{C,inf} = 39$
brilliantness i^*
relative chroma c^*

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ $u^*_e = j75g$ lab^*olv^*
data for any colour: lab^*lch^* and lab^*icu^*
Hue texts: $u^*_e = j75g$ $u^*_d = l03c$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 53 −54 38 $LAB^*LCH^*_{Ma}$: 53 66 144 $lab^*rgb^*_{Ma}$: 0.25 1.0 0.0 $lab^*olv^*_{Ma}$: 0.0 1.0 0.03
%Gamut $u^*_{inf} = 88$ %Regularity $g^*_{H,inf} = 31$ $g^*_{C,inf} = 39$
brilliantness i^*
relative chroma c^*

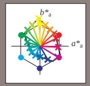


http://www.ps.bam.de/Fe68/10L/L68e00NA.TXT/ .PS, Page 8/15; FRS12_95, L*=20_95

Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_e and number *no.* = 00 .. 15
elementary hue text:
u^*_e = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
$c_R = 0.9$

FRS12_95a; adapted (a) CIELAB data

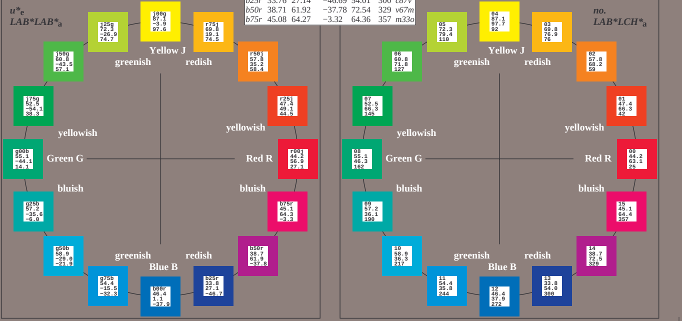
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	44.18	56.95	27.14	63.08	25	m81o
r25j	47.38	49.13	44.53	66.31	42	o10y
r50j	57.76	35.24	58.41	68.22	59	o40y
r75j	69.81	19.13	74.52	76.94	76	o69y
j00g	87.06	−3.94	97.58	97.66	92	o98y
j25g	72.25	−26.89	74.73	79.42	110	y34l
j50g	60.82	−43.48	57.15	71.81	127	y69l
j75g	52.51	−54.15	38.27	66.31	145	l03c
g00b	55.08	−44.06	14.13	46.27	162	l23c
g25b	57.22	−35.64	−6.03	36.15	190	l55c
g50b	58.9	−29.03	−21.86	36.34	217	l87c
g75b	54.42	−15.48	−32.25	35.77	244	c20v
b00r	46.36	1.15	−37.88	37.9	272	c53v
b25r	33.76	27.14	−46.69	54.01	300	c87v
b50r	38.71	61.92	−37.78	72.54	329	v67m
b75r	45.08	64.27	−3.32	64.36	357	m33o



%Gamut
$u^*_{rel} = 88$
%Regularity
$g^*_{H,rel} = 31$
$g^*_{C,rel} = 39$

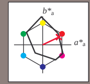
FRS12_95a; adapted (a) CIELAB data

Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	43.8	53.91	39.75	66.98	36
Y_{Ma}	87.58	−4.65	98.29	98.4	93
L_{Ma}	51.95	−56.34	43.53	71.2	142
C_{Ma}	59.62	−26.2	−28.62	38.8	228
V_{Ma}	25.01	45.2	−52.8	69.51	311
M_{Ma}	45.88	70.67	−29.93	76.75	337
N_{Ma}	20.0	0.0	0.0	0.0	0
W_{Ma}	95.0	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ — u^*_e = r00j, LAB*LAB*$_a$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = r00j u^*_d = m81o
contrast reduction factor:
$c_R = 0.9$
triangle lightness t^*



FRS12_95a; adapted (a) CIELAB data

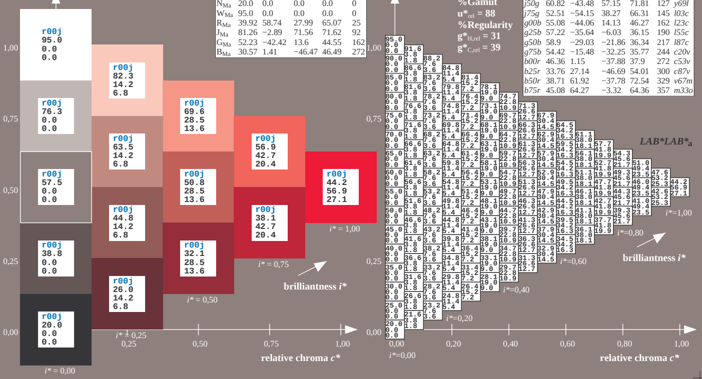
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	43.8	53.91	39.75	66.98	36
Y_{Ma}	87.58	−4.65	98.29	98.4	93
L_{Ma}	51.95	−56.34	43.53	71.2	142
C_{Ma}	59.62	−26.2	−28.62	38.8	228
V_{Ma}	25.01	45.2	−52.8	69.51	311
M_{Ma}	45.88	70.67	−29.93	76.75	337
N_{Ma}	20.0	0.0	0.0	0.0	0
W_{Ma}	95.0	0.0	0.0	0.0	0
R_{Ma}	39.92	58.74	27.99	65.07	25
J_{Ma}	81.26	−2.89	71.56	71.62	92
G_{Ma}	52.23	−42.42	13.6	44.55	162
B_{Ma}	30.57	1.41	−46.47	46.49	272

Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$: 44 57 27
LAB*LCH*$_{Ma}$: 44 63 25
lab*rgb*$_{Ma}$: 1.0 0.0 0.0
lab*olv*$_{Ma}$: 1.0 0.0 0.18
triangle lightness t^*

%Gamut
$u^*_{rel} = 88$
%Regularity
$g^*_{H,rel} = 31$
$g^*_{C,rel} = 39$

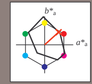
FRS12_95a; adapted (a) CIELAB data

u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	44.18	56.95	27.14	63.08	25	m81o
r25j	47.38	49.13	44.53	66.31	42	o10y
r50j	57.76	35.24	58.41	68.22	59	o40y
r75j	69.81	19.13	74.52	76.94	76	o69y
j00g	87.06	−3.94	97.58	97.66	92	o98y
j25g	72.25	−26.89	74.73	79.42	110	y34l
j50g	60.82	−43.48	57.15	71.81	127	y69l
j75g	52.51	−54.15	38.27	66.31	145	l03c
g00b	55.08	−44.06	14.13	46.27	162	l23c
g25b	57.22	−35.64	−6.03	36.15	190	l55c
g50b	58.9	−29.03	−21.86	36.34	217	l87c
g75b	54.42	−15.48	−32.25	35.77	244	c20v
b00r	46.36	1.15	−37.88	37.9	272	c53v
b25r	33.76	27.14	−46.69	54.01	300	c87v
b50r	38.71	61.92	−37.78	72.54	329	v67m
b75r	45.08	64.27	−3.32	64.36	357	m33o



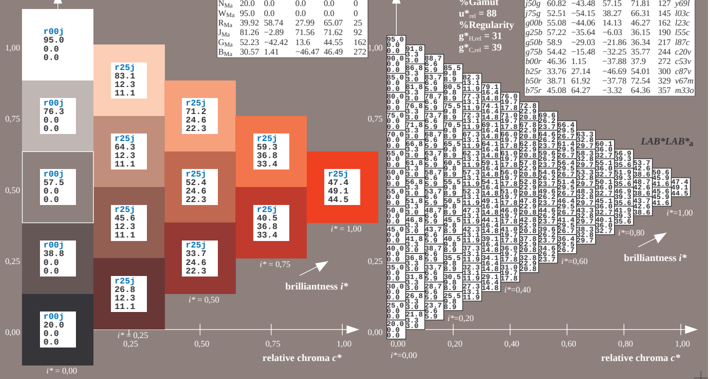
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ — u^*_e = r25j, LAB*LAB*$_a$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = r25j u^*_d = o10y
contrast reduction factor:
$c_R = 0.9$
triangle lightness t^*



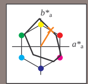
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$: 47 49 45
LAB*LCH*$_{Ma}$: 47 66 42
lab*rgb*$_{Ma}$: 1.0 0.25 0.0
lab*olv*$_{Ma}$: 1.0 0.1 0.0
triangle lightness t^*

%Gamut
$u^*_{rel} = 88$
%Regularity
$g^*_{H,rel} = 31$
$g^*_{C,rel} = 39$



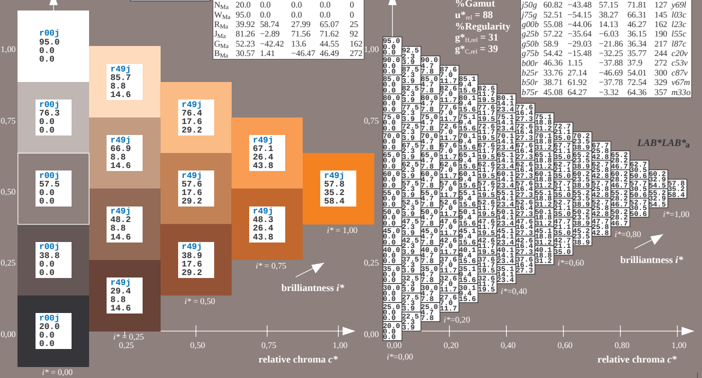
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ — u^*_e = r50j, LAB*LAB*$_a$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = r50j u^*_d = o40y
contrast reduction factor:
$c_R = 0.9$
triangle lightness t^*



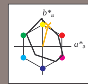
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$: 58 35 58
LAB*LCH*$_{Ma}$: 58 68 58
lab*rgb*$_{Ma}$: 1.0 0.5 0.0
lab*olv*$_{Ma}$: 1.0 0.4 0.0
triangle lightness t^*

%Gamut
$u^*_{rel} = 88$
%Regularity
$g^*_{H,rel} = 31$
$g^*_{C,rel} = 39$



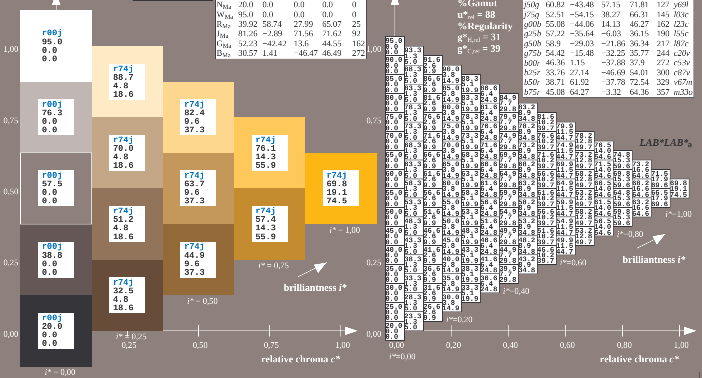
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ — u^*_e = r75j, LAB*LAB*$_a$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = r75j u^*_d = o69y
contrast reduction factor:
$c_R = 0.9$
triangle lightness t^*



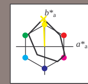
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$: 70 19 75
LAB*LCH*$_{Ma}$: 70 77 75
lab*rgb*$_{Ma}$: 1.0 0.75 0.0
lab*olv*$_{Ma}$: 1.0 0.7 0.0
triangle lightness t^*

%Gamut
$u^*_{rel} = 88$
%Regularity
$g^*_{H,rel} = 31$
$g^*_{C,rel} = 39$



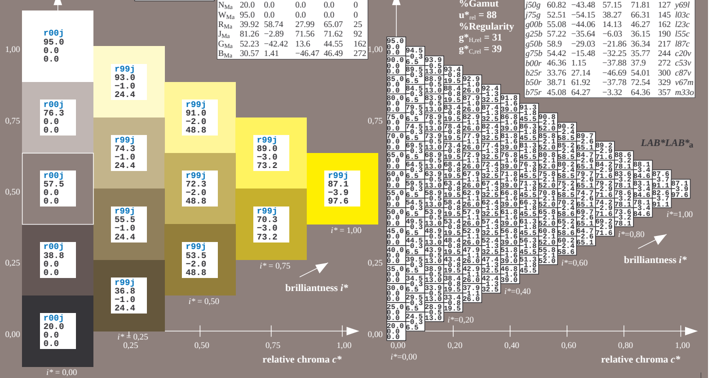
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ — u^*_e = j00g, LAB*LAB*$_a$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = j00g u^*_d = o98y
contrast reduction factor:
$c_R = 0.9$
triangle lightness t^*



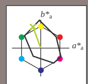
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$: 87 −4 98
LAB*LCH*$_{Ma}$: 87 98 92
lab*rgb*$_{Ma}$: 1.0 1.0 0.0
lab*olv*$_{Ma}$: 1.0 0.99 0.0
triangle lightness t^*

%Gamut
$u^*_{rel} = 88$
%Regularity
$g^*_{H,rel} = 31$
$g^*_{C,rel} = 39$



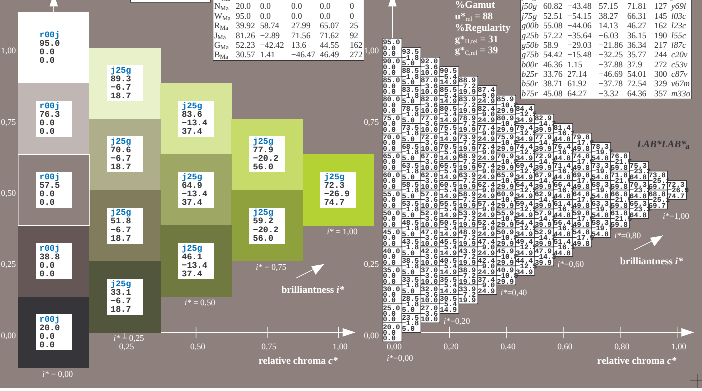
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ — u^*_e = j25g, LAB*LAB*$_a$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = j25g u^*_d = y34l
contrast reduction factor:
$c_R = 0.9$
triangle lightness t^*



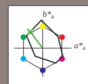
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$: 72 −27 75
LAB*LCH*$_{Ma}$: 72 79 109
lab*rgb*$_{Ma}$: 0.75 1.0 0.0
lab*olv*$_{Ma}$: 0.66 1.0 0.0
triangle lightness t^*

%Gamut
$u^*_{rel} = 88$
%Regularity
$g^*_{H,rel} = 31$
$g^*_{C,rel} = 39$



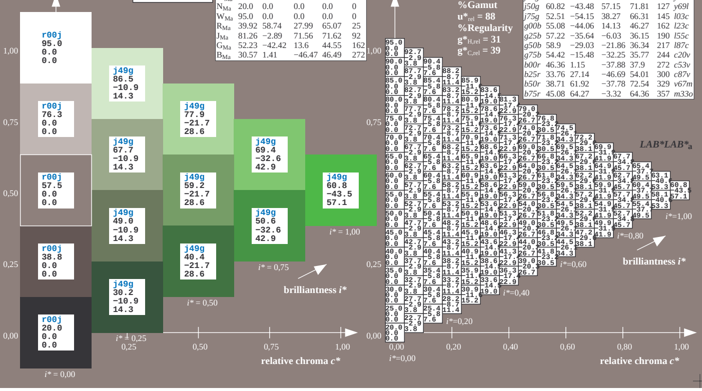
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ — u^*_e = j50g, LAB*LAB*$_a$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = j50g u^*_d = y69l
contrast reduction factor:
$c_R = 0.9$
triangle lightness t^*



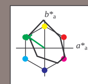
Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$: 61 −43 57
LAB*LCH*$_{Ma}$: 61 72 127
lab*rgb*$_{Ma}$: 0.5 1.0 0.0
lab*olv*$_{Ma}$: 0.3 1.0 0.0
triangle lightness t^*

%Gamut
$u^*_{rel} = 88$
%Regularity
$g^*_{H,rel} = 31$
$g^*_{C,rel} = 39$



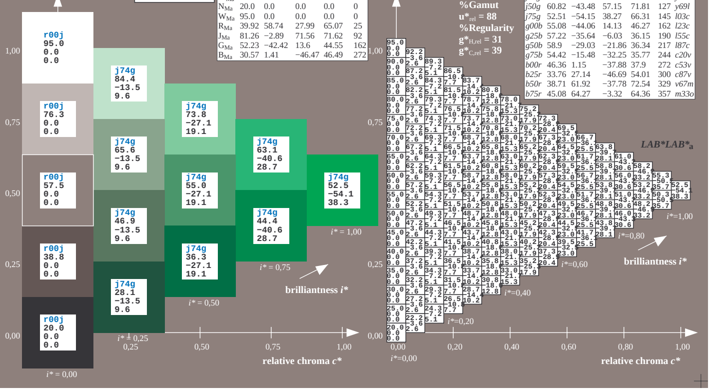
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ — u^*_e = j75g, LAB*LAB*$_a$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
u^*_e = j75g u^*_d = l03c
contrast reduction factor:
$c_R = 0.9$
triangle lightness t^*

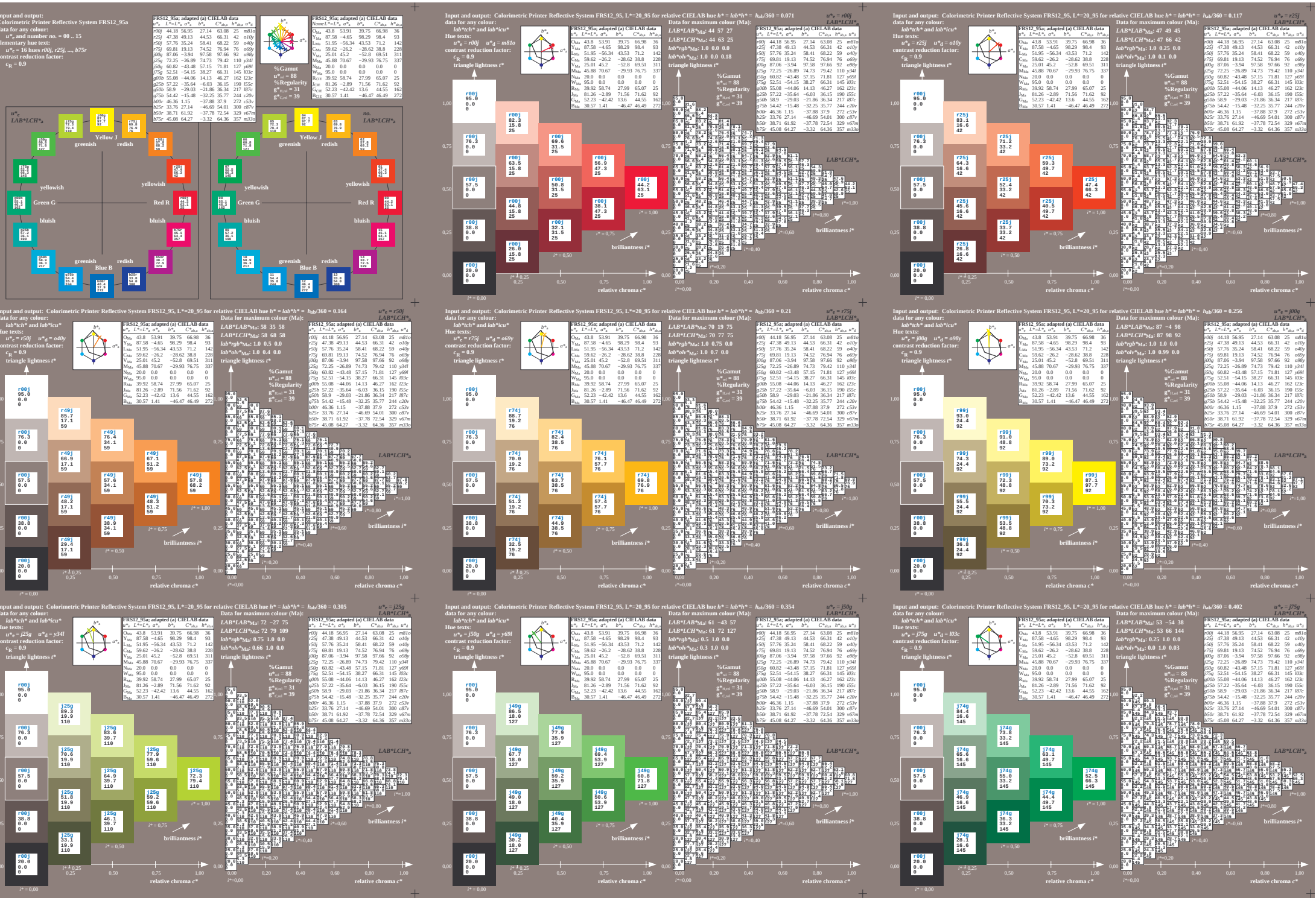


Data for maximum colour (Ma):
LAB*LAB*$_{Ma}$: 53 −54 38
LAB*LCH*$_{Ma}$: 53 66 144
lab*rgb*$_{Ma}$: 0.25 1.0 0.0
lab*olv*$_{Ma}$: 0.0 1.0 0.03
triangle lightness t^*

%Gamut
$u^*_{rel} = 88$
%Regularity
$g^*_{H,rel} = 31$
$g^*_{C,rel} = 39$



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



http://www.ps.bam.de/Fe68/10L/L68e00NA.TXT/ .PS, Page 10/15; FRS12_95, L*=20_95

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.071$ $u^*_R = r00j$ lab*tch*

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

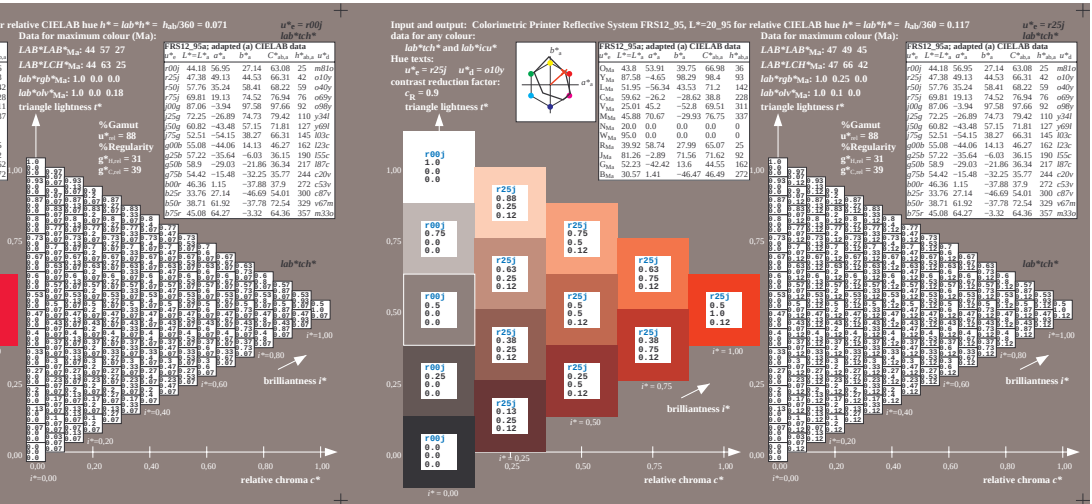
Hue texts: $u^*_R = r00j$ $u^*_B = m81o$

contrast reduction factor: $c_{lR} = 0.9$

triangle lightness t*

Data for maximum colour (Ma): LAB*LAB*Ma: 44 57 27 LAB*LCH*Ma: 44 63 25 lab*rgb*Ma: 1.0 0.0 0.0 lab*olv*Ma: 1.0 0.0 0.18

%Gamut $u^*_{sol} = 88$ %Regularity $g^*_{H,ref} = 31$ $g^*_{C,ref} = 39$



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.117$ $u^*_R = r25j$ lab*tch*

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

Hue texts: $u^*_R = r25j$ $u^*_B = o10y$

contrast reduction factor: $c_{lR} = 0.9$

triangle lightness t*

Data for maximum colour (Ma): LAB*LAB*Ma: 47 49 45 LAB*LCH*Ma: 47 66 42 lab*rgb*Ma: 1.0 0.25 0.0 lab*olv*Ma: 1.0 0.1 0.0

%Gamut $u^*_{sol} = 88$ %Regularity $g^*_{H,ref} = 31$ $g^*_{C,ref} = 39$

Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.164$ $u^*_R = r50j$ lab*tch*

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

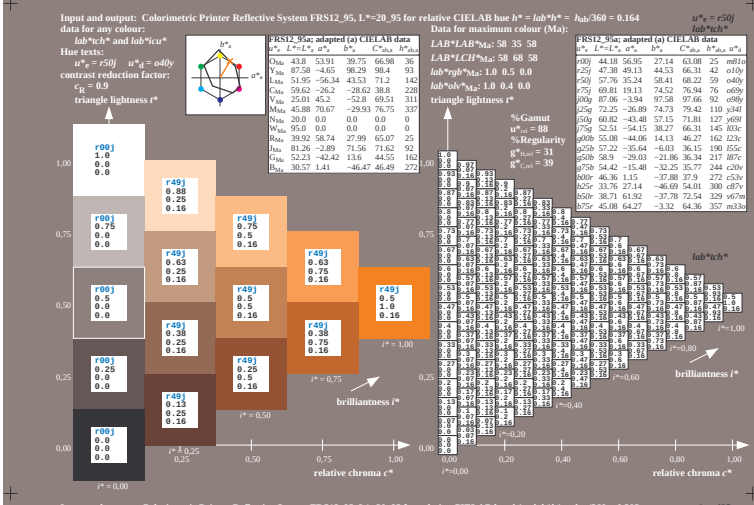
Hue texts: $u^*_R = r50j$ $u^*_B = o40y$

contrast reduction factor: $c_{lR} = 0.9$

triangle lightness t*

Data for maximum colour (Ma): LAB*LAB*Ma: 58 35 58 LAB*LCH*Ma: 58 68 58 lab*rgb*Ma: 1.0 0.5 0.0 lab*olv*Ma: 1.0 0.4 0.0

%Gamut $u^*_{sol} = 88$ %Regularity $g^*_{H,ref} = 31$ $g^*_{C,ref} = 39$



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.21$ $u^*_R = r75j$ lab*tch*

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

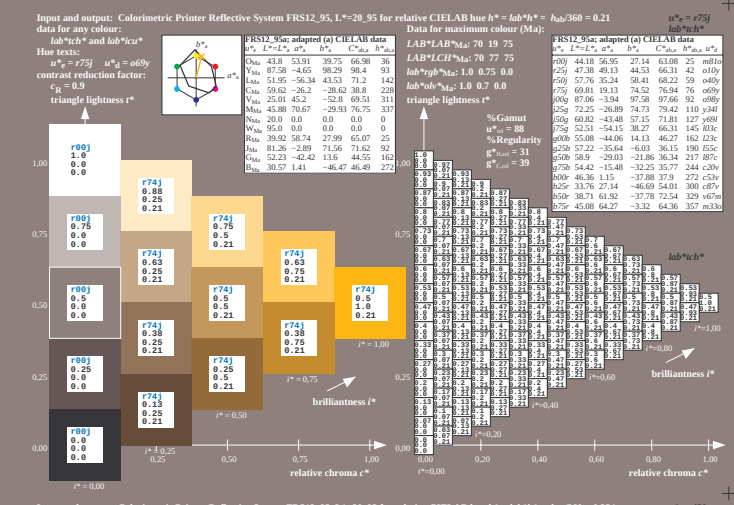
Hue texts: $u^*_R = r75j$ $u^*_B = o69y$

contrast reduction factor: $c_{lR} = 0.9$

triangle lightness t*

Data for maximum colour (Ma): LAB*LAB*Ma: 70 19 75 LAB*LCH*Ma: 70 77 75 lab*rgb*Ma: 1.0 0.75 0.0 lab*olv*Ma: 1.0 0.7 0.0

%Gamut $u^*_{sol} = 88$ %Regularity $g^*_{H,ref} = 31$ $g^*_{C,ref} = 39$



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.256$ $u^*_R = j00g$ lab*tch*

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

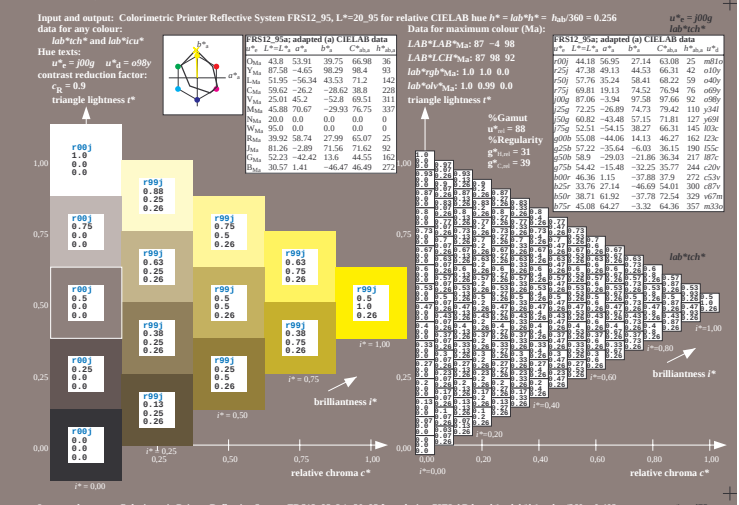
Hue texts: $u^*_R = j00g$ $u^*_B = o98y$

contrast reduction factor: $c_{lR} = 0.9$

triangle lightness t*

Data for maximum colour (Ma): LAB*LAB*Ma: 87 −4 98 LAB*LCH*Ma: 87 98 92 lab*rgb*Ma: 1.0 1.0 0.0 lab*olv*Ma: 1.0 0.99 0.0

%Gamut $u^*_{sol} = 88$ %Regularity $g^*_{H,ref} = 31$ $g^*_{C,ref} = 39$



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.305$ $u^*_R = j25g$ lab*tch*

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

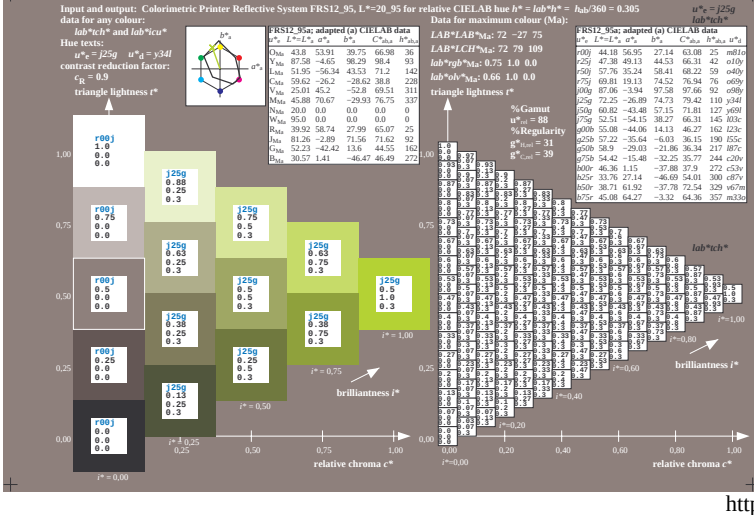
Hue texts: $u^*_R = j25g$ $u^*_B = y34l$

contrast reduction factor: $c_{lR} = 0.9$

triangle lightness t*

Data for maximum colour (Ma): LAB*LAB*Ma: 72 −27 75 LAB*LCH*Ma: 72 79 109 lab*rgb*Ma: 0.75 1.0 0.0 lab*olv*Ma: 0.66 1.0 0.0

%Gamut $u^*_{sol} = 88$ %Regularity $g^*_{H,ref} = 31$ $g^*_{C,ref} = 39$



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.354$ $u^*_R = j50g$ lab*tch*

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

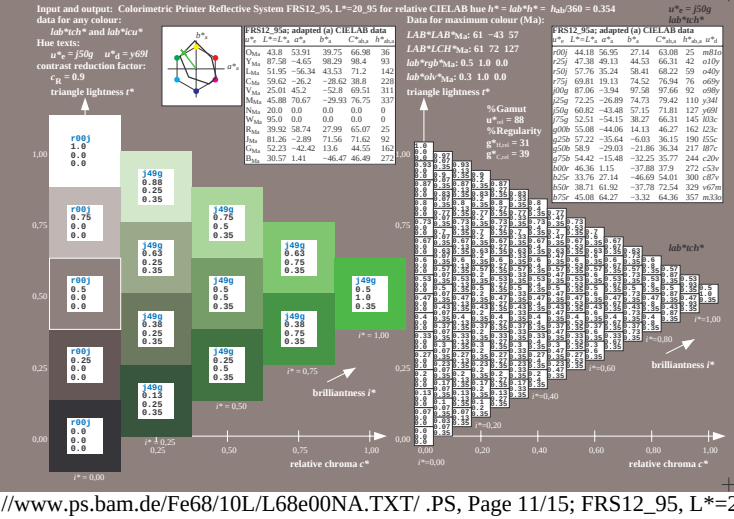
Hue texts: $u^*_R = j50g$ $u^*_B = y69l$

contrast reduction factor: $c_{lR} = 0.9$

triangle lightness t*

Data for maximum colour (Ma): LAB*LAB*Ma: 61 −43 57 LAB*LCH*Ma: 61 72 127 lab*rgb*Ma: 0.5 1.0 0.0 lab*olv*Ma: 0.3 1.0 0.0

%Gamut $u^*_{sol} = 88$ %Regularity $g^*_{H,ref} = 31$ $g^*_{C,ref} = 39$



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.402$ $u^*_R = j75g$ lab*tch*

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

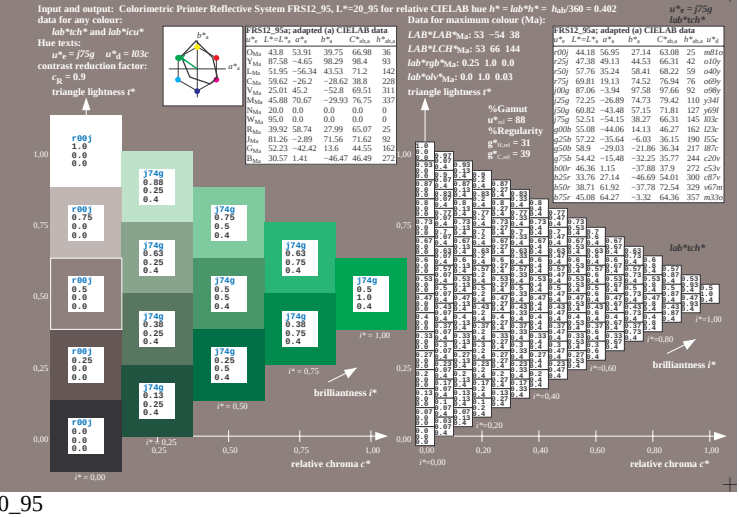
Hue texts: $u^*_R = j75g$ $u^*_B = l03c$

contrast reduction factor: $c_{lR} = 0.9$

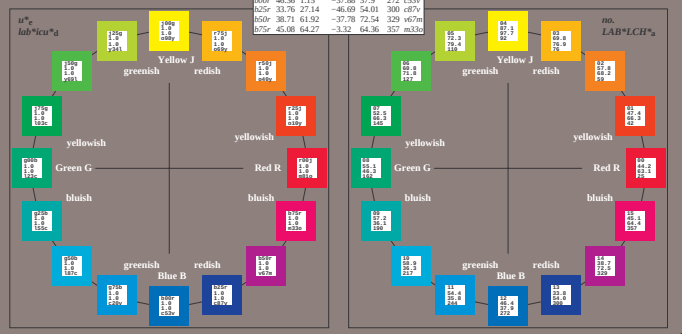
triangle lightness t*

Data for maximum colour (Ma): LAB*LAB*Ma: 53 −54 38 LAB*LCH*Ma: 53 66 144 lab*rgb*Ma: 0.25 1.0 0.0 lab*olv*Ma: 0.0 1.0 0.03

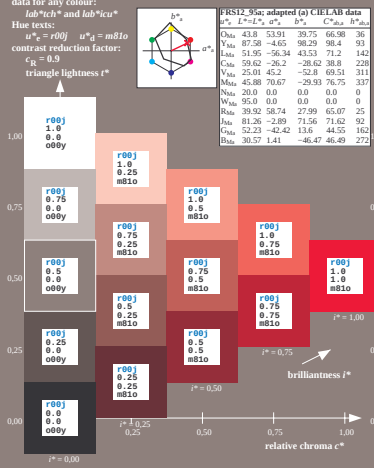
%Gamut $u^*_{sol} = 88$ %Regularity $g^*_{H,ref} = 31$ $g^*_{C,ref} = 39$



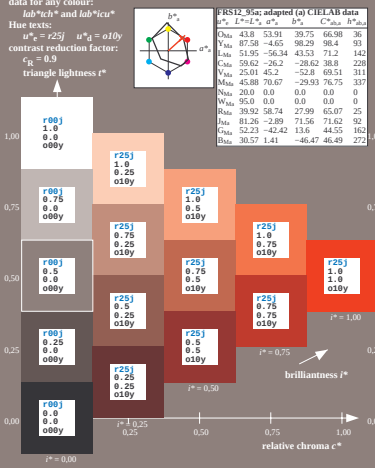
Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_e and number *no.* = 00 .. 15
elementary hue text:
u^*_e = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 0.9



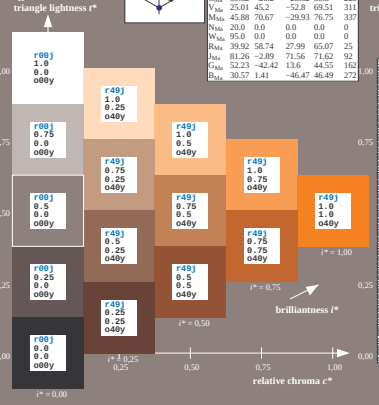
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.071$ $u^*_e = r00j$ $lab^*icu^*_d$
data for any colour:
lab^*ch^* and lab^*icu^*
Hue texts: $u^*_e = r00j$ $u^*_d = m81o$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 44 57 27
$LAB^*LCH^*_{Ma}$: 44 63 25
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.0
$lab^*olv^*_{Ma}$: 1.0 0.0 0.18
%Gamut u^*_{col} = 88
%Regularity $g^*_{H,col}$ = 31 $g^*_{C,col}$ = 39



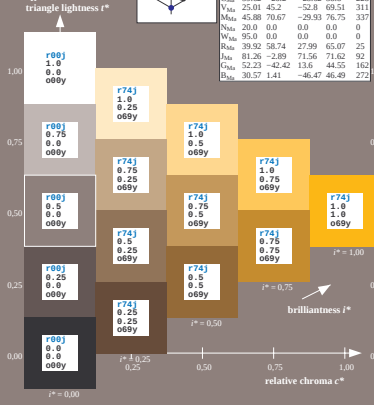
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.117$ $u^*_e = r25j$ $lab^*icu^*_d$
data for any colour:
lab^*ch^* and lab^*icu^*
Hue texts: $u^*_e = r25j$ $u^*_d = o10y$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 47 49 45
$LAB^*LCH^*_{Ma}$: 47 66 42
$lab^*rgb^*_{Ma}$: 1.0 0.25 0.0
$lab^*olv^*_{Ma}$: 1.0 0.1 0.0
%Gamut u^*_{col} = 88
%Regularity $g^*_{H,col}$ = 31 $g^*_{C,col}$ = 39



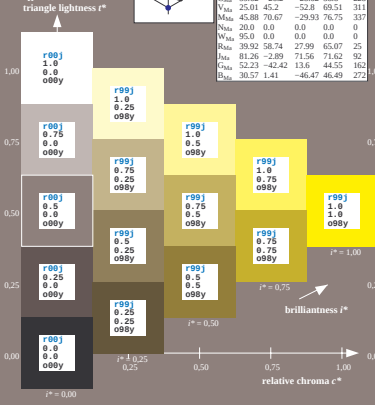
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.164$ $u^*_e = r50j$ $lab^*icu^*_d$
data for any colour:
lab^*ch^* and lab^*icu^*
Hue texts: $u^*_e = r50j$ $u^*_d = o40y$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 58 35 58
$LAB^*LCH^*_{Ma}$: 58 68 58
$lab^*rgb^*_{Ma}$: 1.0 0.5 0.0
$lab^*olv^*_{Ma}$: 1.0 0.4 0.0
%Gamut u^*_{col} = 88
%Regularity $g^*_{H,col}$ = 31 $g^*_{C,col}$ = 39



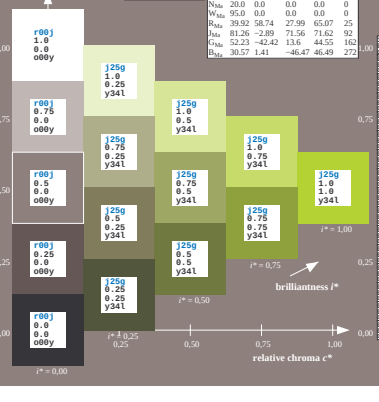
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.21$ $u^*_e = r75j$ $lab^*icu^*_d$
data for any colour:
lab^*ch^* and lab^*icu^*
Hue texts: $u^*_e = r75j$ $u^*_d = o69y$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 70 19 75
$LAB^*LCH^*_{Ma}$: 70 77 75
$lab^*rgb^*_{Ma}$: 1.0 0.75 0.0
$lab^*olv^*_{Ma}$: 1.0 0.7 0.0
%Gamut u^*_{col} = 88
%Regularity $g^*_{H,col}$ = 31 $g^*_{C,col}$ = 39



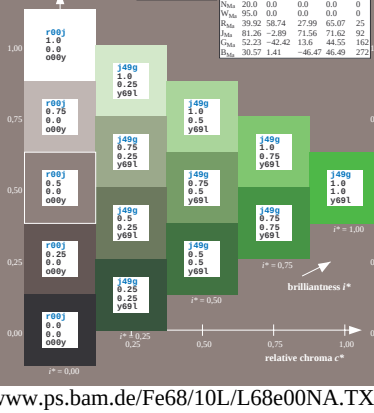
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.256$ $u^*_e = j00g$ $lab^*icu^*_d$
data for any colour:
lab^*ch^* and lab^*icu^*
Hue texts: $u^*_e = j00g$ $u^*_d = o98y$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 87 −4 98
$LAB^*LCH^*_{Ma}$: 87 98 92
$lab^*rgb^*_{Ma}$: 1.0 1.0 0.0
$lab^*olv^*_{Ma}$: 1.0 0.99 0.0
%Gamut u^*_{col} = 88
%Regularity $g^*_{H,col}$ = 31 $g^*_{C,col}$ = 39



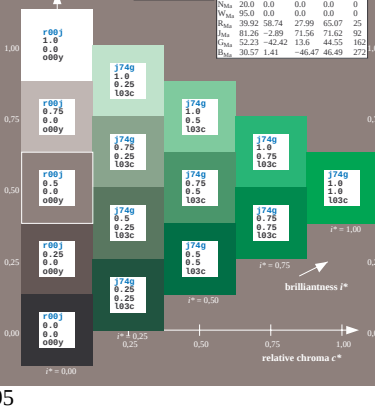
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.305$ $u^*_e = j25g$ $lab^*icu^*_d$
data for any colour:
lab^*ch^* and lab^*icu^*
Hue texts: $u^*_e = j25g$ $u^*_d = y34l$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 72 −27 75
$LAB^*LCH^*_{Ma}$: 72 79 109
$lab^*rgb^*_{Ma}$: 0.75 1.0 0.0
$lab^*olv^*_{Ma}$: 0.66 1.0 0.0
%Gamut u^*_{col} = 88
%Regularity $g^*_{H,col}$ = 31 $g^*_{C,col}$ = 39

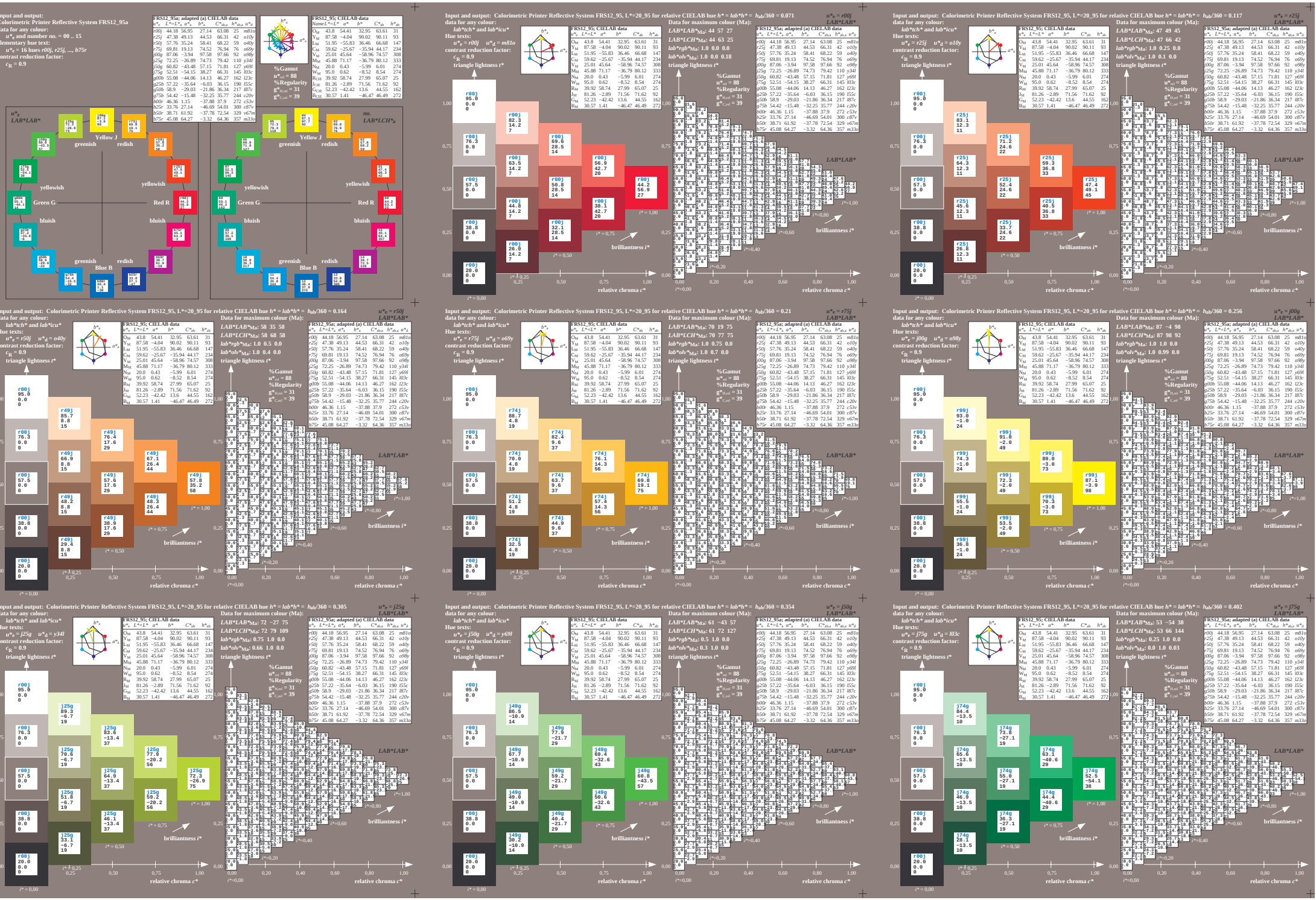


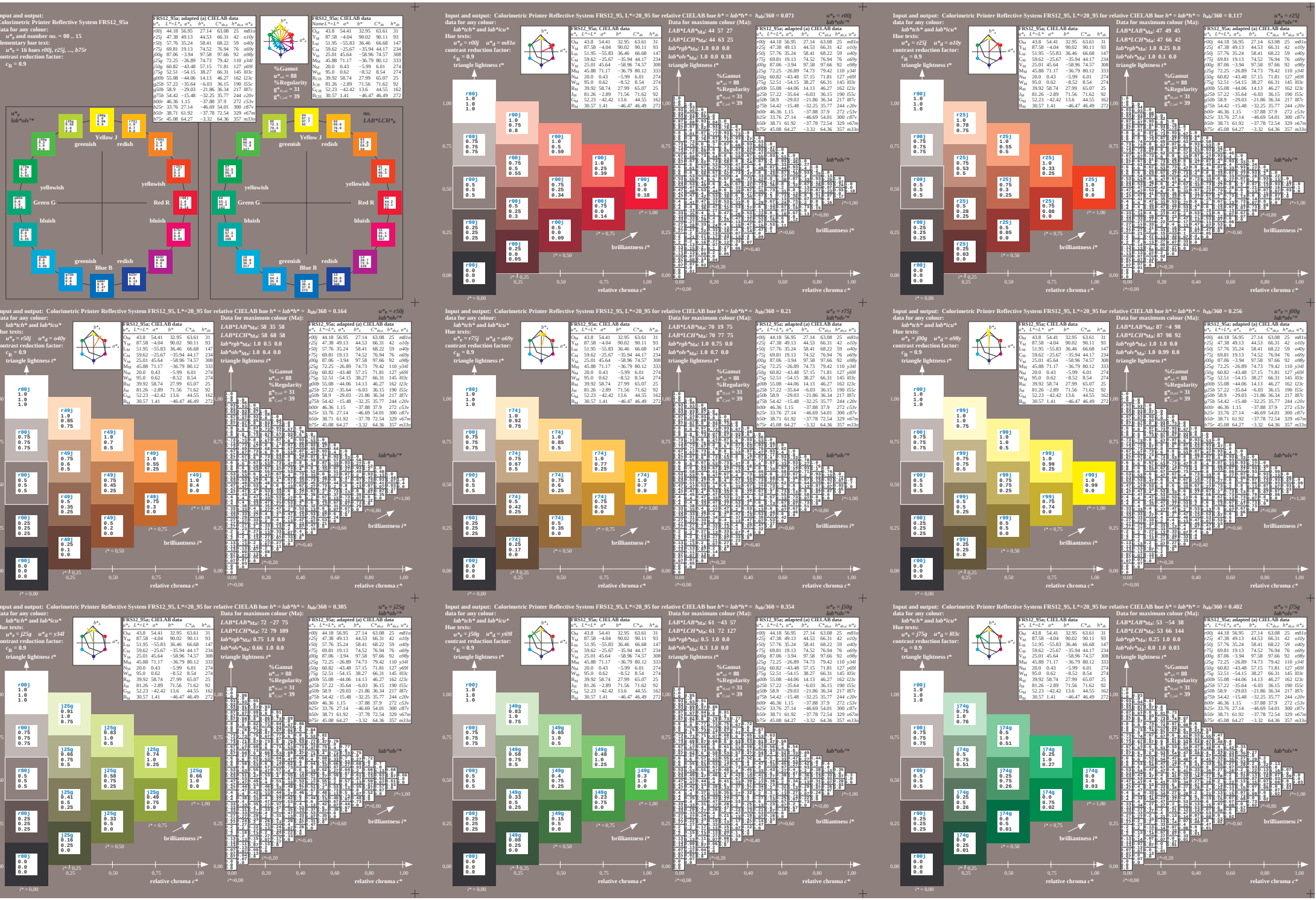
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.354$ $u^*_e = j50g$ $lab^*icu^*_d$
data for any colour:
lab^*ch^* and lab^*icu^*
Hue texts: $u^*_e = j50g$ $u^*_d = y69l$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 61 −43 57
$LAB^*LCH^*_{Ma}$: 61 72 127
$lab^*rgb^*_{Ma}$: 0.5 1.0 0.0
$lab^*olv^*_{Ma}$: 0.3 1.0 0.0
%Gamut u^*_{col} = 88
%Regularity $g^*_{H,col}$ = 31 $g^*_{C,col}$ = 39



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.402$ $u^*_e = j75g$ $lab^*icu^*_d$
data for any colour:
lab^*ch^* and lab^*icu^*
Hue texts: $u^*_e = j75g$ $u^*_d = l03c$
contrast reduction factor: $c_R = 0.9$
triangle lightness t^*
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 53 −54 38
$LAB^*LCH^*_{Ma}$: 53 66 144
$lab^*rgb^*_{Ma}$: 0.25 1.0 0.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.03
%Gamut u^*_{col} = 88
%Regularity $g^*_{H,col}$ = 31 $g^*_{C,col}$ = 39



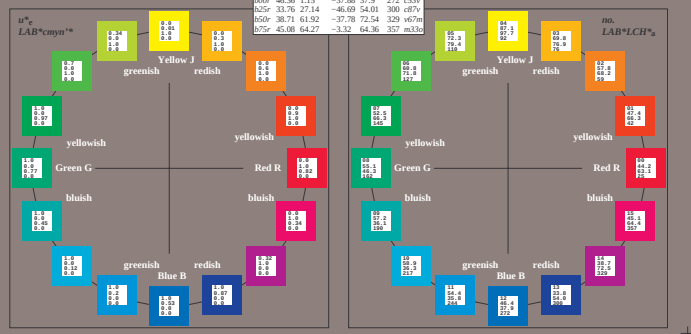

Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u*a* and number no. = 00 .. 15
elementary hue text:
u*a* = 16 hues r00j, r25j, ..., b75r
contrast reduction factor:
cR = 0.9
FRS12_95a; adapted (a) CIELAB data
FRS12_95; CIELAB data
%Gamut
u*sat = 88
%Regularity
g*R,sat = 31
g*C,sat = 39
u*a*
LAB*LAB*
no.
LAB*LCH*a
Yellow J
greenish
redish
yellowish
Green G
Red R
bluish
Blue B
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.071
Data for maximum colour (Ma):
LAB*LAB*Ma: 44 57 27
LAB*LCH*Ma: 44 63 25
lab*rgb*Ma: 1.0 0.0 0.0
lab*olv*Ma: 1.0 0.0 0.18
u*a* = r00j
LAB*LAB*
u*a* = m81o
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.117
Data for maximum colour (Ma):
LAB*LAB*Ma: 47 49 45
LAB*LCH*Ma: 47 66 42
lab*rgb*Ma: 1.0 0.25 0.0
lab*olv*Ma: 1.0 0.1 0.0
u*a* = r25j
LAB*LAB*
u*a* = o10y
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.164
Data for maximum colour (Ma):
LAB*LAB*Ma: 58 35 58
LAB*LCH*Ma: 58 68 58
lab*rgb*Ma: 1.0 0.5 0.0
lab*olv*Ma: 1.0 0.4 0.0
u*a* = r50j
LAB*LAB*
u*a* = o40y
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.21
Data for maximum colour (Ma):
LAB*LAB*Ma: 70 19 75
LAB*LCH*Ma: 70 77 75
lab*rgb*Ma: 1.0 0.75 0.0
lab*olv*Ma: 1.0 0.7 0.0
u*a* = r75j
LAB*LAB*
u*a* = o69y
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.256
Data for maximum colour (Ma):
LAB*LAB*Ma: 87 -4 98
LAB*LCH*Ma: 87 98 92
lab*rgb*Ma: 1.0 1.0 0.0
lab*olv*Ma: 1.0 0.99 0.0
u*a* = j00g
LAB*LAB*
u*a* = o98y
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.305
Data for maximum colour (Ma):
LAB*LAB*Ma: 72 -27 75
LAB*LCH*Ma: 72 79 109
lab*rgb*Ma: 0.75 1.0 0.0
lab*olv*Ma: 0.66 1.0 0.0
u*a* = j25g
LAB*LAB*
u*a* = y34l
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.354
Data for maximum colour (Ma):
LAB*LAB*Ma: 61 -43 57
LAB*LCH*Ma: 61 72 127
lab*rgb*Ma: 0.5 1.0 0.0
lab*olv*Ma: 0.3 1.0 0.0
u*a* = j50g
LAB*LAB*
u*a* = y69l
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.402
Data for maximum colour (Ma):
LAB*LAB*Ma: 53 -54 38
LAB*LCH*Ma: 53 66 144
lab*rgb*Ma: 0.25 1.0 0.0
lab*olv*Ma: 0.0 1.0 0.03
u*a* = j75g
LAB*LAB*
u*a* = l03c
relative chroma c*
brilliantness i*


Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.071
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.117
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.164
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.21
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.256
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.305
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.354
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue h* = lab*h* = hab/360 = 0.402
relative chroma c*
brilliantness i*

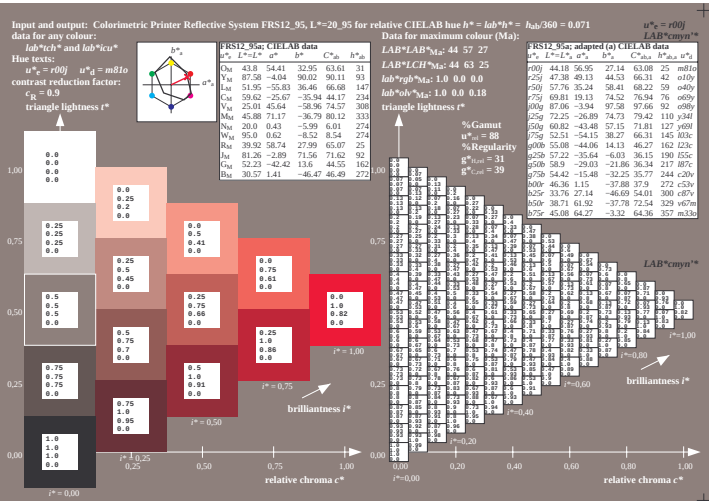
Input and output:
Colorimetric Printer Reflective System FRS12_95a
data for any colour:
u^*_e and number *no.* = 00 .. 15
elementary hue text:
u^*_e = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 0.9

FRS12_95a: adapted (a) CIELAB data						
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	44.18	56.95	27.14	63.08	25	*m81o*
r25j	47.38	49.13	44.53	66.31	42	*o10y*
r50j	57.76	35.24	58.41	68.22	59	*o40y*
r75j	69.81	19.13	74.52	76.94	76	*o69y*
y00g	87.06	−3.94	97.58	97.66	92	*o98y*
y25g	72.25	−26.89	74.73	79.42	110	*y34l*
y50g	60.82	−43.48	57.15	71.81	127	*y69l*
y75g	52.51	−54.15	38.27	66.31	145	*l03c*
g00b	55.08	−44.06	14.13	46.27	162	*l23c*
g25b	57.22	−35.64	−6.03	36.15	190	*l55c*
g50b	58.9	−29.03	−21.86	36.34	217	*l87c*
g75b	54.42	−15.48	−32.25	35.77	244	*c20v*
b00r	46.36	1.15	−37.88	37.9	272	*c53v*
b25r	33.76	27.14	−46.69	54.01	300	*c87v*
b50r	38.71	61.92	−37.78	72.54	329	*v67m*
b75r	45.08	64.27	−3.32	64.36	357	*m33o*

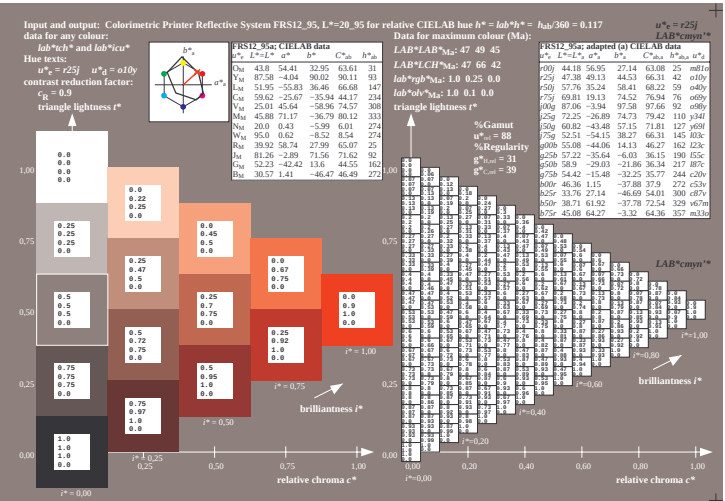
FRS12_95a: CIELAB data						
Name	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}	
O_{Gd}	43.8	54.41	32.95	63.61	31	
Y_{Gd}	87.58	−4.04	90.02	90.11	93	
L_{Gd}	51.95	−55.83	36.46	66.68	147	
C_{Gd}	59.62	−25.67	−35.94	44.17	234	
V_{Gd}	25.01	45.64	−58.96	74.57	308	
M_{Gd}	45.88	71.17	−36.79	80.12	333	
N_{Gd}	20.0	0.43	−5.99	6.01	274	
W_{Gd}	95.0	0.62	−8.52	8.54	274	
R_{CIE}	39.92	58.74	27.99	65.07	25	
R_{CIE}	81.26	−2.89	71.56	71.62	92	
G_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	



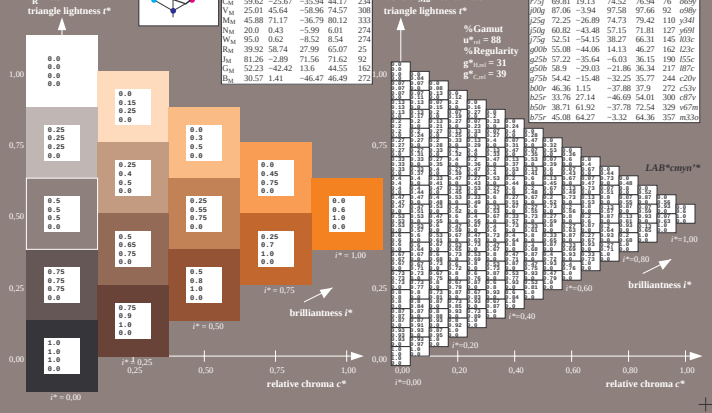
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.071$ u^*_e = *r00j*
data for any colour: *LAB*cmyn'**
*lab*ch** and *lab*icu**
Hue texts: Data for maximum colour (Ma):
u^*_e = *r00j* u^*_a = *m81o* *LAB*LAB*Ma: 44 57 27
contrast reduction factor: *LAB*LCH*Ma: 44 63 25
c_R = 0.9 *lab*rgb*Ma: 1.0 0.0 0.0
triangle lightness *: *lab*olv*Ma: 1.0 0.0 0.18



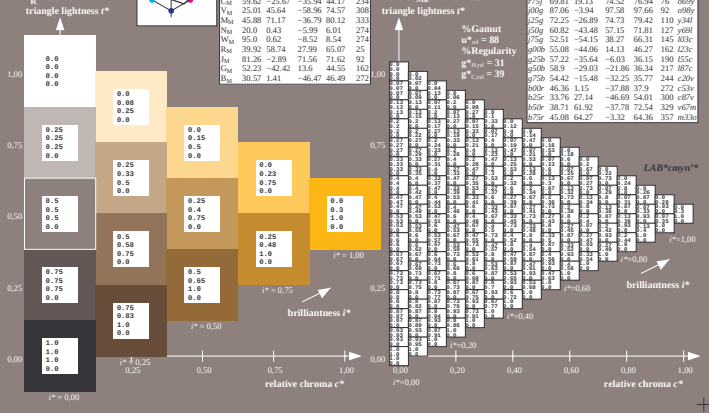
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.117$ u^*_e = *r25j*
data for any colour: *LAB*cmyn'**
*lab*ch** and *lab*icu**
Hue texts: Data for maximum colour (Ma):
u^*_e = *r25j* u^*_a = *o10y* *LAB*LAB*Ma: 47 49 45
contrast reduction factor: *LAB*LCH*Ma: 47 66 42
c_R = 0.9 *lab*rgb*Ma: 1.0 0.25 0.0
triangle lightness *: *lab*olv*Ma: 1.0 0.1 0.0



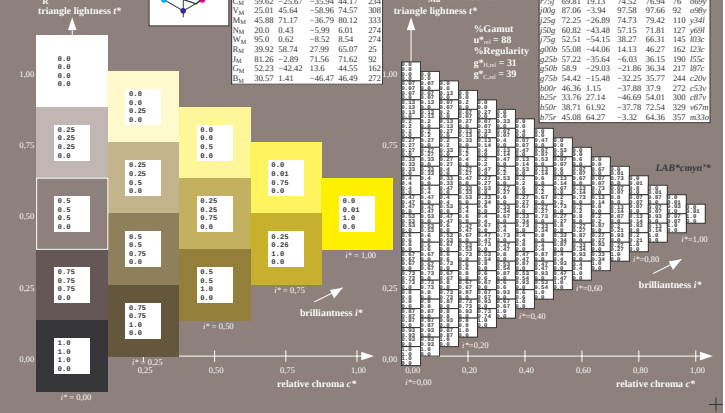
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.164$ u^*_e = *r50j*
data for any colour: *LAB*cmyn'**
*lab*ch** and *lab*icu**
Hue texts: Data for maximum colour (Ma):
u^*_e = *r50j* u^*_a = *o40y* *LAB*LAB*Ma: 58 35 58
contrast reduction factor: *LAB*LCH*Ma: 58 68 58
c_R = 0.9 *lab*rgb*Ma: 1.0 0.5 0.0
triangle lightness *: *lab*olv*Ma: 1.0 0.4 0.0



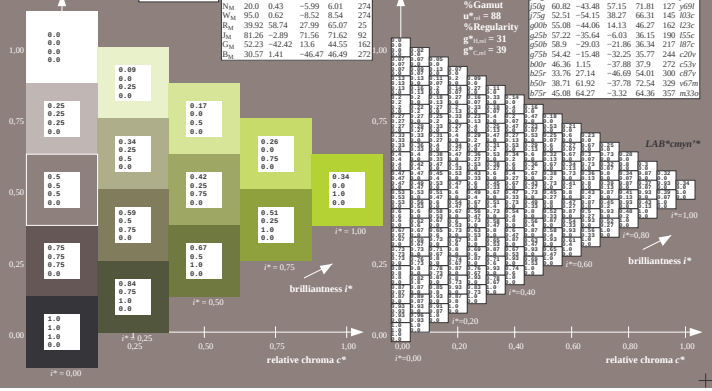
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.21$ u^*_e = *r75j*
data for any colour: *LAB*cmyn'**
*lab*ch** and *lab*icu**
Hue texts: Data for maximum colour (Ma):
u^*_e = *r75j* u^*_a = *o69y* *LAB*LAB*Ma: 70 19 75
contrast reduction factor: *LAB*LCH*Ma: 70 77 75
c_R = 0.9 *lab*rgb*Ma: 1.0 0.75 0.0
triangle lightness *: *lab*olv*Ma: 1.0 0.7 0.0



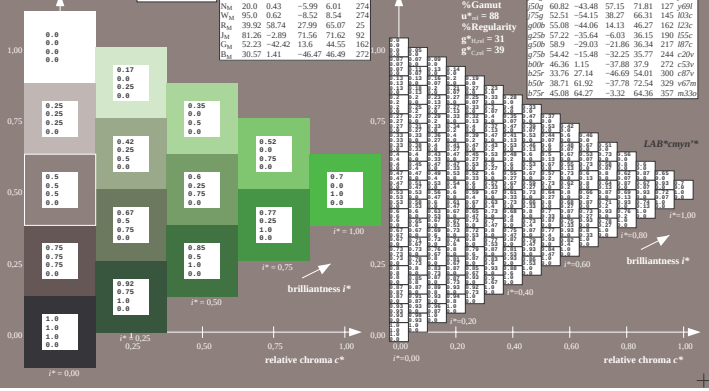
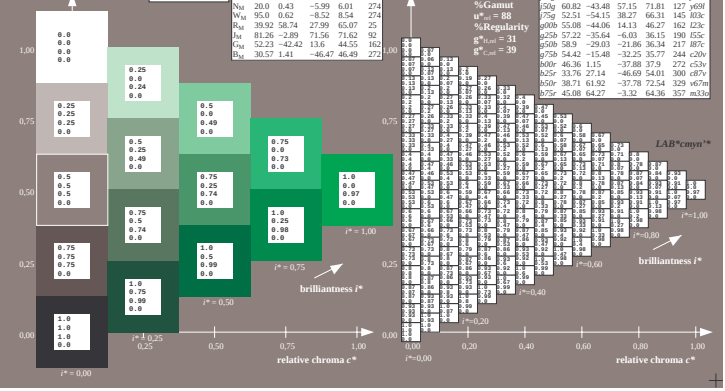
Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.256$ u^*_e = *j00g*
data for any colour: *LAB*cmyn'**
*lab*ch** and *lab*icu**
Hue texts: Data for maximum colour (Ma):
u^*_e = *j00g* u^*_a = *o98y* *LAB*LAB*Ma: 87 −4 98
contrast reduction factor: *LAB*LCH*Ma: 87 98 92
c_R = 0.9 *lab*rgb*Ma: 1.0 1.0 0.0
triangle lightness *: *lab*olv*Ma: 1.0 0.99 0.0



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.305$ u^*_e = *j25g*
data for any colour: *LAB*cmyn'**
*lab*ch** and *lab*icu**
Hue texts: Data for maximum colour (Ma):
u^*_e = *j25g* u^*_a = *y34l* *LAB*LAB*Ma: 72 −27 75
contrast reduction factor: *LAB*LCH*Ma: 72 79 109
c_R = 0.9 *lab*rgb*Ma: 0.75 1.0 0.0
triangle lightness *: *lab*olv*Ma: 0.66 1.0 0.0



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.354$ u^*_e = *j50g*
data for any colour: *LAB*cmyn'**
*lab*ch** and *lab*icu**
Hue texts: Data for maximum colour (Ma):
u^*_e = *j50g* u^*_a = *y69l* *LAB*LAB*Ma: 61 −43 57
contrast reduction factor: *LAB*LCH*Ma: 61 72 127
c_R = 0.9 *lab*rgb*Ma: 0.5 1.0 0.0
triangle lightness *: *lab*olv*Ma: 0.3 1.0 0.0



Input and output: Colorimetric Printer Reflective System FRS12_95, L*=20_95 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.402$ u^*_e = *j75g*
data for any colour: *LAB*cmyn'**
*lab*ch** and *lab*icu**
Hue texts: Data for maximum colour (Ma):
u^*_e = *j75g* u^*_a = *l03c* *LAB*LAB*Ma: 53 −54 38
contrast reduction factor: *LAB*LCH*Ma: 53 66 144
c_R = 0.9 *lab*rgb*Ma: 0.25 1.0 0.0
triangle lightness *: *lab*olv*Ma: 0.0 1.0 0.03