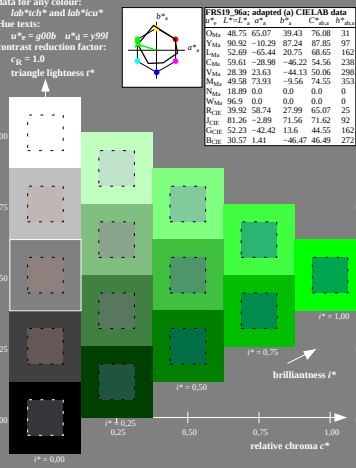
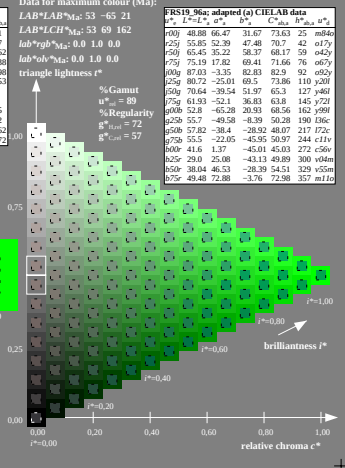
Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$ $u^*_\varepsilon = g00b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = g00b$ $u^*_d = y99l$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 53 −65 21
$LAB^*LCH^*_{Ma}$: 53 69 162
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
triangle lightness t^*





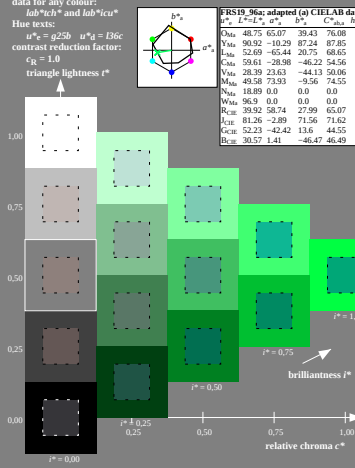
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

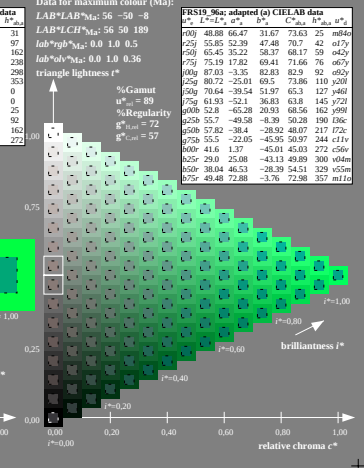
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	m84e
r25j	55.85	52.39	47.48	70.7	42	o17y
r50j	65.45	35.22	58.37	68.17	59	o42y
r75j	75.19	17.82	69.41	71.66	76	o67y
j00g	87.03	−3.35	82.83	82.9	92	o92y
j25g	80.72	−25.01	69.5	73.86	110	y20l
j50g	70.64	−39.54	51.97	65.3	127	y46l
j75g	61.93	−52.1	36.83	63.8	145	y72l
g00b	52.8	−65.28	20.93	68.56	162	y99l
g25b	55.7	−49.58	−8.39	50.28	190	l36c
g50b	57.82	−38.4	−28.92	48.07	217	l72c
g75b	55.5	−22.05	−45.95	50.97	244	c11v
b00r	41.6	1.37	−45.01	45.03	272	c56v
b25r	29.0	25.08	−43.13	49.89	300	v04m
b50r	38.04	46.53	−28.39	54.51	329	v55m
b75r	49.48	72.88	−3.76	72.98	357	m11o

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.527$ $u^*_\varepsilon = g25b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = g25b$ $u^*_d = l36c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 56 −50 −8
$LAB^*LCH^*_{Ma}$: 56 50 189
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.5
$lab^*olv^*_{Ma}$: 0.0 1.0 0.36
triangle lightness t^*





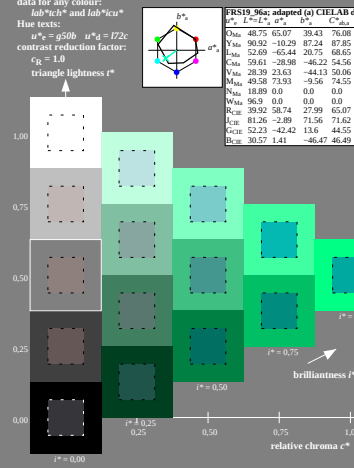
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

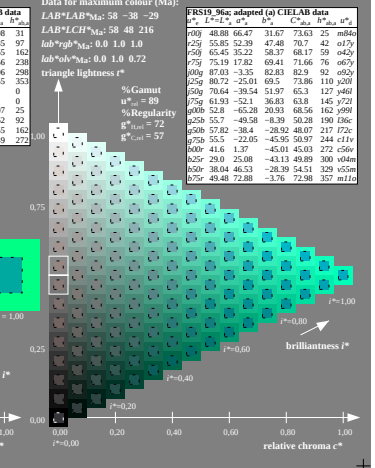
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	m84e
r25j	55.85	52.39	47.48	70.7	42	o17y
r50j	65.45	35.22	58.37	68.17	59	o42y
r75j	75.19	17.82	69.41	71.66	76	o67y
j00g	87.03	−3.35	82.83	82.9	92	o92y
j25g	80.72	−25.01	69.5	73.86	110	y20l
j50g	70.64	−39.54	51.97	65.3	127	y46l
j75g	61.93	−52.1	36.83	63.8	145	y72l
g00b	52.8	−65.28	20.93	68.56	162	y99l
g25b	55.7	−49.58	−8.39	50.28	190	l36c
g50b	57.82	−38.4	−28.92	48.07	217	l72c
g75b	55.5	−22.05	−45.95	50.97	244	c11v
b00r	41.6	1.37	−45.01	45.03	272	c56v
b25r	29.0	25.08	−43.13	49.89	300	v04m
b50r	38.04	46.53	−28.39	54.51	329	v55m
b75r	49.48	72.88	−3.76	72.98	357	m11o

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.603$ $u^*_\varepsilon = g50b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = g50b$ $u^*_d = l72c$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 58 −38 −29
$LAB^*LCH^*_{Ma}$: 58 48 216
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.72
triangle lightness t^*





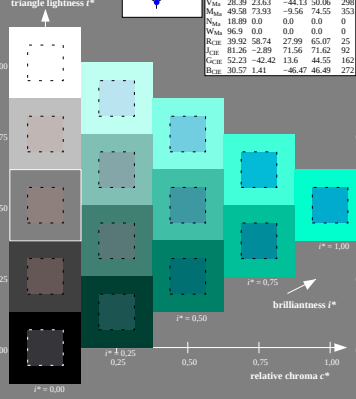
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

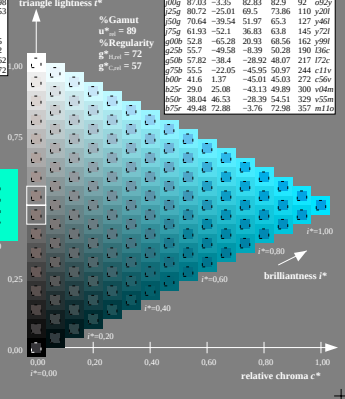
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	m84e
r25j	55.85	52.39	47.48	70.7	42	o17y
r50j	65.45	35.22	58.37	68.17	59	o42y
r75j	75.19	17.82	69.41	71.66	76	o67y
j00g	87.03	−3.35	82.83	82.9	92	o92y
j25g	80.72	−25.01	69.5	73.86	110	y20l
j50g	70.64	−39.54	51.97	65.3	127	y46l
j75g	61.93	−52.1	36.83	63.8	145	y72l
g00b	52.8	−65.28	20.93	68.56	162	y99l
g25b	55.7	−49.58	−8.39	50.28	190	l36c
g50b	57.82	−38.4	−28.92	48.07	217	l72c
g75b	55.5	−22.05	−45.95	50.97	244	c11v
b00r	41.6	1.37	−45.01	45.03	272	c56v
b25r	29.0	25.08	−43.13	49.89	300	v04m
b50r	38.04	46.53	−28.39	54.51	329	v55m
b75r	49.48	72.88	−3.76	72.98	357	m11o

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.679$ $u^*_\varepsilon = g75b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = g75b$ $u^*_d = c11v$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 55 −22 −46
$LAB^*LCH^*_{Ma}$: 55 51 244
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
$lab^*olv^*_{Ma}$: 0.0 0.89 1.0
triangle lightness t^*





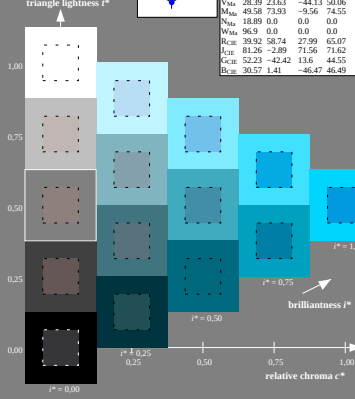
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

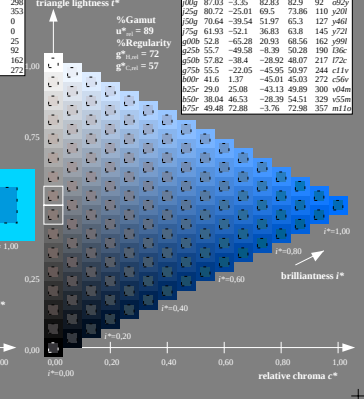
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	m84e
r25j	55.85	52.39	47.48	70.7	42	o17y
r50j	65.45	35.22	58.37	68.17	59	o42y
r75j	75.19	17.82	69.41	71.66	76	o67y
j00g	87.03	−3.35	82.83	82.9	92	o92y
j25g	80.72	−25.01	69.5	73.86	110	y20l
j50g	70.64	−39.54	51.97	65.3	127	y46l
j75g	61.93	−52.1	36.83	63.8	145	y72l
g00b	52.8	−65.28	20.93	68.56	162	y99l
g25b	55.7	−49.58	−8.39	50.28	190	l36c
g50b	57.82	−38.4	−28.92	48.07	217	l72c
g75b	55.5	−22.05	−45.95	50.97	244	c11v
b00r	41.6	1.37	−45.01	45.03	272	c56v
b25r	29.0	25.08	−43.13	49.89	300	v04m
b50r	38.04	46.53	−28.39	54.51	329	v55m
b75r	49.48	72.88	−3.76	72.98	357	m11o

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.755$ $u^*_\varepsilon = b00r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = b00r$ $u^*_d = c56v$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 42 1 −45
$LAB^*LCH^*_{Ma}$: 42 45 271
$lab^*rgb^*_{Ma}$: 0.0 0.0 1.0
$lab^*olv^*_{Ma}$: 0.0 0.44 1.0
triangle lightness t^*





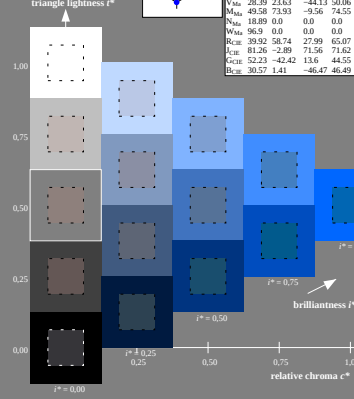
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

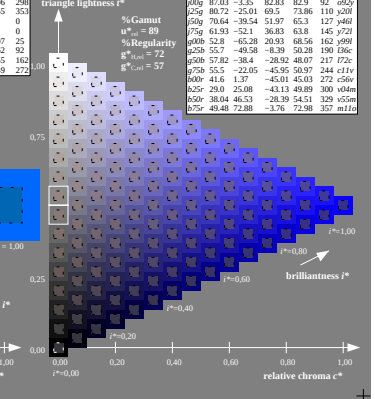
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	m84e
r25j	55.85	52.39	47.48	70.7	42	o17y
r50j	65.45	35.22	58.37	68.17	59	o42y
r75j	75.19	17.82	69.41	71.66	76	o67y
j00g	87.03	−3.35	82.83	82.9	92	o92y
j25g	80.72	−25.01	69.5	73.86	110	y20l
j50g	70.64	−39.54	51.97	65.3	127	y46l
j75g	61.93	−52.1	36.83	63.8	145	y72l
g00b	52.8	−65.28	20.93	68.56	162	y99l
g25b	55.7	−49.58	−8.39	50.28	190	l36c
g50b	57.82	−38.4	−28.92	48.07	217	l72c
g75b	55.5	−22.05	−45.95	50.97	244	c11v
b00r	41.6	1.37	−45.01	45.03	272	c56v
b25r	29.0	25.08	−43.13	49.89	300	v04m
b50r	38.04	46.53	−28.39	54.51	329	v55m
b75r	49.48	72.88	−3.76	72.98	357	m11o

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.834$ $u^*_\varepsilon = b25r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = b25r$ $u^*_d = v04m$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 29 25 −43
$LAB^*LCH^*_{Ma}$: 29 50 300
$lab^*rgb^*_{Ma}$: 0.5 0.0 1.0
$lab^*olv^*_{Ma}$: 0.04 0.0 1.0
triangle lightness t^*





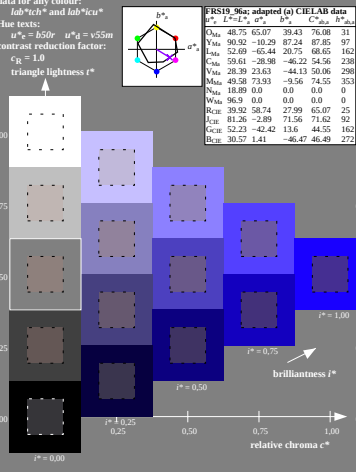
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

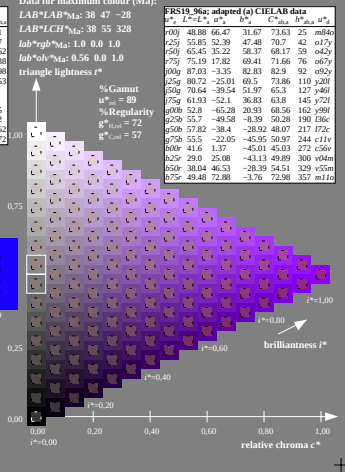
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	m84e
r25j	55.85	52.39	47.48	70.7	42	o17y
r50j	65.45	35.22	58.37	68.17	59	o42y
r75j	75.19	17.82	69.41	71.66	76	o67y
j00g	87.03	−3.35	82.83	82.9	92	o92y
j25g	80.72	−25.01	69.5	73.86	110	y20l
j50g	70.64	−39.54	51.97	65.3	127	y46l
j75g	61.93	−52.1	36.83	63.8	145	y72l
g00b	52.8	−65.28	20.93	68.56	162	y99l
g25b	55.7	−49.58	−8.39	50.28	190	l36c
g50b	57.82	−38.4	−28.92	48.07	217	l72c
g75b	55.5	−22.05	−45.95	50.97	244	c11v
b00r	41.6	1.37	−45.01	45.03	272	c56v
b25r	29.0	25.08	−43.13	49.89	300	v04m
b50r	38.04	46.53	−28.39	54.51	329	v55m
b75r	49.48	72.88	−3.76	72.98	357	m11o

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.913$ $u^*_\varepsilon = b50r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = b50r$ $u^*_d = v55m$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 38 47 −28
$LAB^*LCH^*_{Ma}$: 38 55 328
$lab^*rgb^*_{Ma}$: 1.0 0.0 1.0
$lab^*olv^*_{Ma}$: 0.56 0.0 1.0
triangle lightness t^*





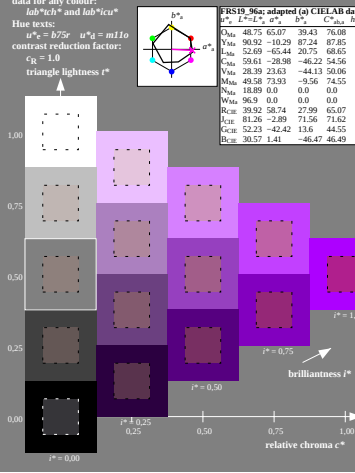
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

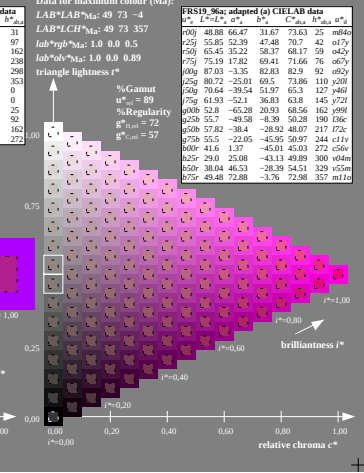
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	m84e
r25j	55.85	52.39	47.48	70.7	42	o17y
r50j	65.45	35.22	58.37	68.17	59	o42y
r75j	75.19	17.82	69.41	71.66	76	o67y
j00g	87.03	−3.35	82.83	82.9	92	o92y
j25g	80.72	−25.01	69.5	73.86	110	y20l
j50g	70.64	−39.54	51.97	65.3	127	y46l
j75g	61.93	−52.1	36.83	63.8	145	y72l
g00b	52.8	−65.28	20.93	68.56	162	y99l
g25b	55.7	−49.58	−8.39	50.28	190	l36c
g50b	57.82	−38.4	−28.92	48.07	217	l72c
g75b	55.5	−22.05	−45.95	50.97	244	c11v
b00r	41.6	1.37	−45.01	45.03	272	c56v
b25r	29.0	25.08	−43.13	49.89	300	v04m
b50r	38.04	46.53	−28.39	54.51	329	v55m
b75r	49.48	72.88	−3.76	72.98	357	m11o

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.992$ $u^*_\varepsilon = b75r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_\varepsilon = b75r$ $u^*_d = m11o$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 49 73 −4
$LAB^*LCH^*_{Ma}$: 49 73 357
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.5
$lab^*olv^*_{Ma}$: 1.0 0.0 0.89
triangle lightness t^*





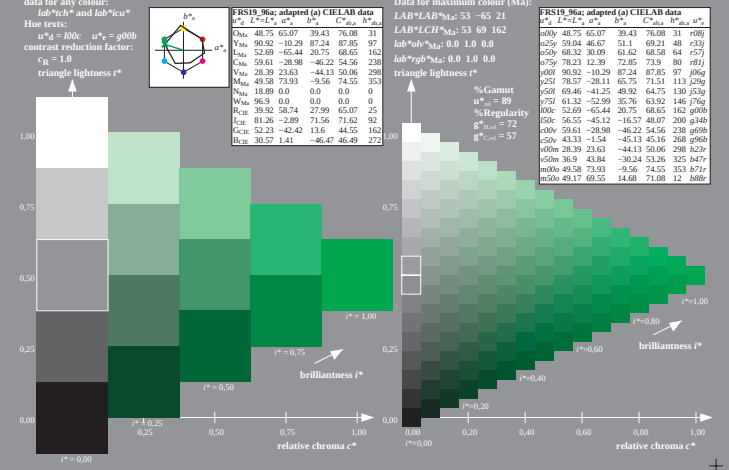
FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

FRS19_96a; adapted (a) CIELAB data						
u^*_ε	$L^*=L^*_\varepsilon$	a^*_ε	b^*_ε	$C^*_{ab,\varepsilon}$	$h^*_{ab,\varepsilon}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	m84e
r25j	55.85	52.39	47.48	70.7	42	o17y
r50j	65.45	35.22	58.37	68.17	59	o42y
r75j	75.19	17.82	69.41	71.66	76	o67y
j00g	87.03	−3.35	82.83	82.9	92	o92y
j25g	80.72	−25.01	69.5	73.86	110	y20l
j50g	70.64	−39.54	51.97	65.3	127	y46l
j75g	61.93	−52.1	36.83	63.8	145	y72l
g00b	52.8	−65.28

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$ $u^*_d = g00b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = l00c$ $u^*_e = g00b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 53 −65 21
$LAB^*LCH^*_{Ma}$: 53 69 162
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0



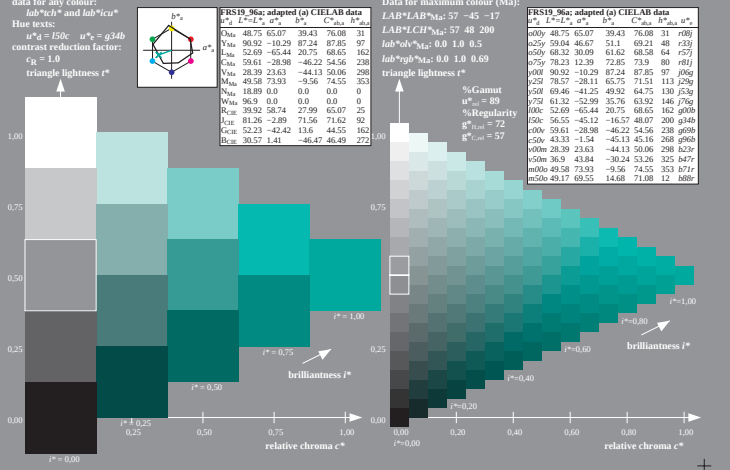
FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	j06g
M_{Ma}	49.58	73.93	−9.56	74.55	353	j29g
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00r	90.92	−10.29	87.24	87.85	97	j06g
y25r	78.57	−28.11	65.75	71.51	113	j29g
y50r	69.46	−41.25	49.92	64.75	130	j53g
y75r	61.32	−52.99	35.76	63.92	146	j76g
l00c	52.69	−65.44	20.75	68.65	162	g00b
l50c	56.55	−45.12	−16.57	48.07	200	g34b
c00v	59.61	−28.98	−46.22	54.56	238	g60b
c50v	43.33	−1.54	−45.13	45.16	268	g96b
v00m	28.39	23.63	−44.13	50.06	298	b23r
v50m	36.9	43.84	−30.24	53.26	325	b47r
m00o	49.58	73.93	−9.56	74.55	353	b71r
m50o	49.17	69.55	14.68	71.08	12	b88r

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.556$ $u^*_d = g25b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = l50c$ $u^*_e = g34b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 57 −45 −17
$LAB^*LCH^*_{Ma}$: 57 48 200
$lab^*olv^*_{Ma}$: 0.0 1.0 0.5
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.69



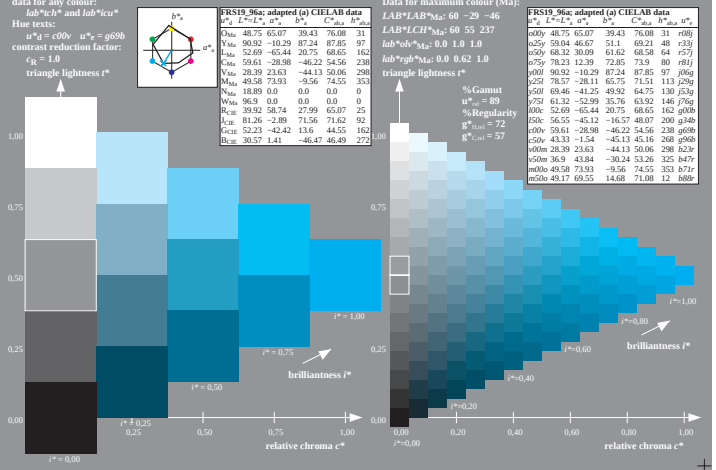
FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	j06g
M_{Ma}	49.58	73.93	−9.56	74.55	353	j29g
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00r	90.92	−10.29	87.24	87.85	97	j06g
y25r	78.57	−28.11	65.75	71.51	113	j29g
y50r	69.46	−41.25	49.92	64.75	130	j53g
y75r	61.32	−52.99	35.76	63.92	146	j76g
l00c	52.69	−65.44	20.75	68.65	162	g00b
l50c	56.55	−45.12	−16.57	48.07	200	g34b
c00v	59.61	−28.98	−46.22	54.56	238	g60b
c50v	43.33	−1.54	−45.13	45.16	268	g96b
v00m	28.39	23.63	−44.13	50.06	298	b23r
v50m	36.9	43.84	−30.24	53.26	325	b47r
m00o	49.58	73.93	−9.56	74.55	353	b71r
m50o	49.17	69.55	14.68	71.08	12	b88r

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.661$ $u^*_d = g50b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = c00v$ $u^*_e = g69b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 60 −29 −46
$LAB^*LCH^*_{Ma}$: 60 55 237
$lab^*olv^*_{Ma}$: 0.0 1.0 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.62 1.0



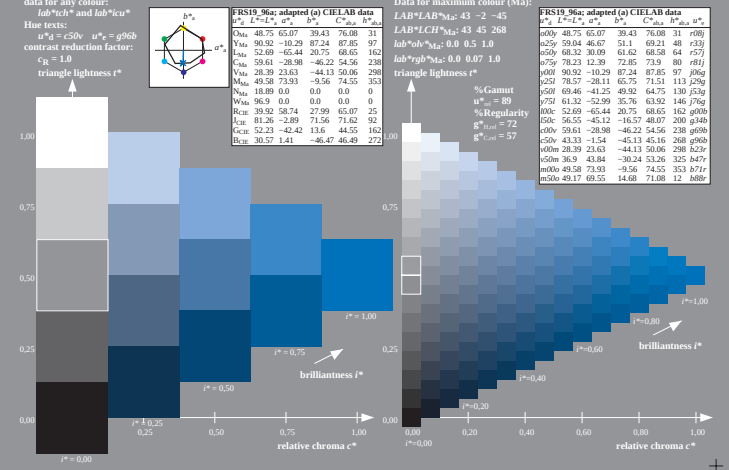
FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	j06g
M_{Ma}	49.58	73.93	−9.56	74.55	353	j29g
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00r	90.92	−10.29	87.24	87.85	97	j06g
y25r	78.57	−28.11	65.75	71.51	113	j29g
y50r	69.46	−41.25	49.92	64.75	130	j53g
y75r	61.32	−52.99	35.76	63.92	146	j76g
l00c	52.69	−65.44	20.75	68.65	162	g00b
l50c	56.55	−45.12	−16.57	48.07	200	g34b
c00v	59.61	−28.98	−46.22	54.56	238	g60b
c50v	43.33	−1.54	−45.13	45.16	268	g96b
v00m	28.39	23.63	−44.13	50.06	298	b23r
v50m	36.9	43.84	−30.24	53.26	325	b47r
m00o	49.58	73.93	−9.56	74.55	353	b71r
m50o	49.17	69.55	14.68	71.08	12	b88r

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.745$ $u^*_d = g75b$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = c50v$ $u^*_e = g96b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 43 −2 −45
$LAB^*LCH^*_{Ma}$: 43 45 268
$lab^*olv^*_{Ma}$: 0.0 0.5 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.07 1.0



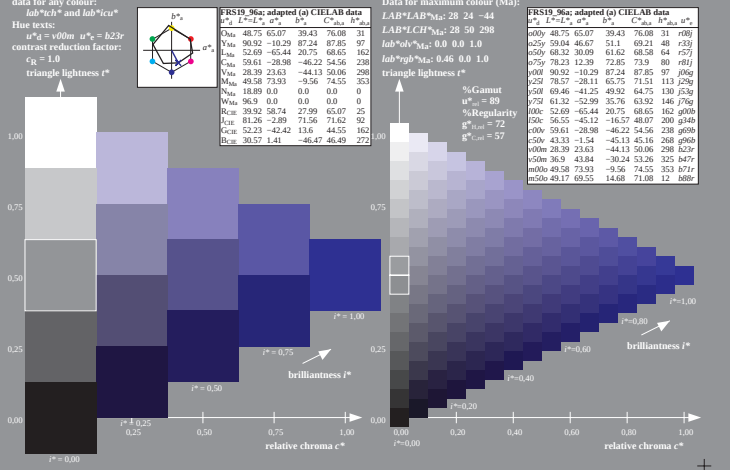
FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	j06g
M_{Ma}	49.58	73.93	−9.56	74.55	353	j29g
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00r	90.92	−10.29	87.24	87.85	97	j06g
y25r	78.57	−28.11	65.75	71.51	113	j29g
y50r	69.46	−41.25	49.92	64.75	130	j53g
y75r	61.32	−52.99	35.76	63.92	146	j76g
l00c	52.69	−65.44	20.75	68.65	162	g00b
l50c	56.55	−45.12	−16.57	48.07	200	g34b
c00v	59.61	−28.98	−46.22	54.56	238	g60b
c50v	43.33	−1.54	−45.13	45.16	268	g96b
v00m	28.39	23.63	−44.13	50.06	298	b23r
v50m	36.9	43.84	−30.24	53.26	325	b47r
m00o	49.58	73.93	−9.56	74.55	353	b71r
m50o	49.17	69.55	14.68	71.08	12	b88r

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.828$ $u^*_d = b00r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = v00m$ $u^*_e = b23r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 28 24 −44
$LAB^*LCH^*_{Ma}$: 28 50 298
$lab^*olv^*_{Ma}$: 0.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.46 0.0 1.0



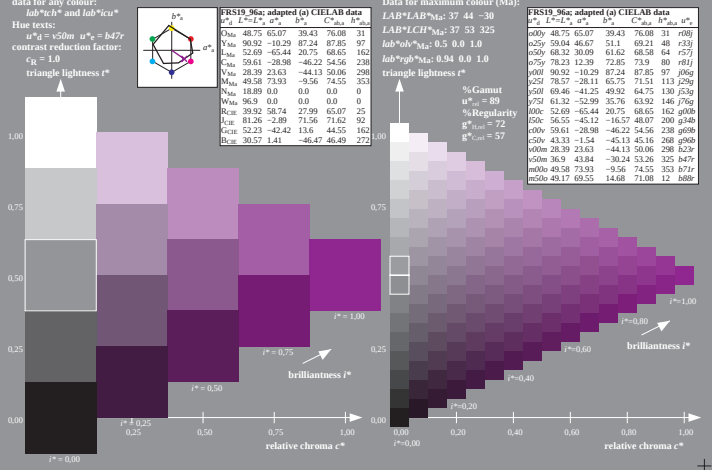
FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	j06g
M_{Ma}	49.58	73.93	−9.56	74.55	353	j29g
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00r	90.92	−10.29	87.24	87.85	97	j06g
y25r	78.57	−28.11	65.75	71.51	113	j29g
y50r	69.46	−41.25	49.92	64.75	130	j53g
y75r	61.32	−52.99	35.76	63.92	146	j76g
l00c	52.69	−65.44	20.75	68.65	162	g00b
l50c	56.55	−45.12	−16.57	48.07	200	g34b
c00v	59.61	−28.98	−46.22	54.56	238	g60b
c50v	43.33	−1.54	−45.13	45.16	268	g96b
v00m	28.39	23.63	−44.13	50.06	298	b23r
v50m	36.9	43.84	−30.24	53.26	325	b47r
m00o	49.58	73.93	−9.56	74.55	353	b71r
m50o	49.17	69.55	14.68	71.08	12	b88r

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.904$ $u^*_d = b25r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = v50m$ $u^*_e = b47r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 37 44 −30
$LAB^*LCH^*_{Ma}$: 37 53 325
$lab^*olv^*_{Ma}$: 0.5 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.94 0.0 1.0



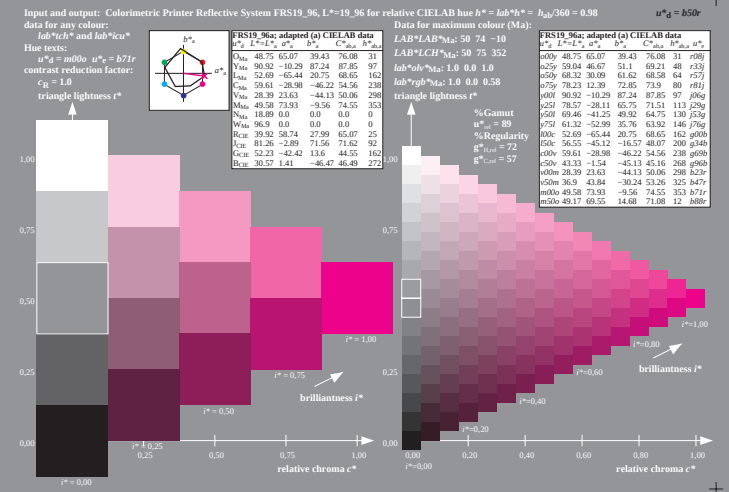
FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	j06g
M_{Ma}	49.58	73.93	−9.56	74.55	353	j29g
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00r	90.92	−10.29	87.24	87.85	97	j06g
y25r	78.57	−28.11	65.75	71.51	113	j29g
y50r	69.46	−41.25	49.92	64.75	130	j53g
y75r	61.32	−52.99	35.76	63.92	146	j76g
l00c	52.69	−65.44	20.75	68.65	162	g00b
l50c	56.55	−45.12	−16.57	48.07	200	g34b
c00v	59.61	−28.98	−46.22	54.56	238	g60b
c50v	43.33	−1.54	−45.13	45.16	268	g96b
v00m	28.39	23.63	−44.13	50.06	298	b23r
v50m	36.9	43.84	−30.24	53.26	325	b47r
m00o	49.58	73.93	−9.56	74.55	353	b71r
m50o	49.17	69.55	14.68	71.08	12	b88r

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.98$ $u^*_d = b50r$

data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = m00o$ $u^*_e = b71r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 50 74 −10
$LAB^*LCH^*_{Ma}$: 50 75 352
$lab^*olv^*_{Ma}$: 1.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.58



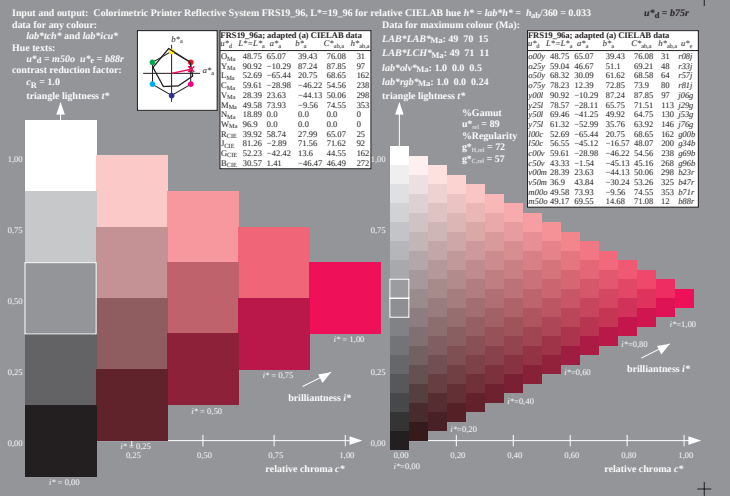
FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	j06g
M_{Ma}	49.58	73.93	−9.56	74.55	353	j29g
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00r	90.92	−10.29	87.24	87.85	97	j06g
y25r	78.57	−28.11	65.75	71.51	113	j29g
y50r	69.46	−41.25	49.92	64.75	130	j53g
y75r	61.32	−52.99	35.76	63.92	146	j76g
l00c	52.69	−65.44	20.75	68.65	162	g00b
l50c	56.55	−45.12	−16.57	48.07	200	g34b
c00v	59.61	−28.98	−46.22	54.56	238	g60b
c50v	43.33	−1.54	−45.13	45.16	268	g96b
v00m	28.39	23.63	−44.13	50.06	298	b23r
v50m	36.9	43.84	−30.24	53.26	325	b47r
m00o	49.58	73.93	−9.56	74.55	353	b71r
m50o	49.17	69.55	14.68	71.08	12	b88r

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.033$ $u^*_d = b75r$

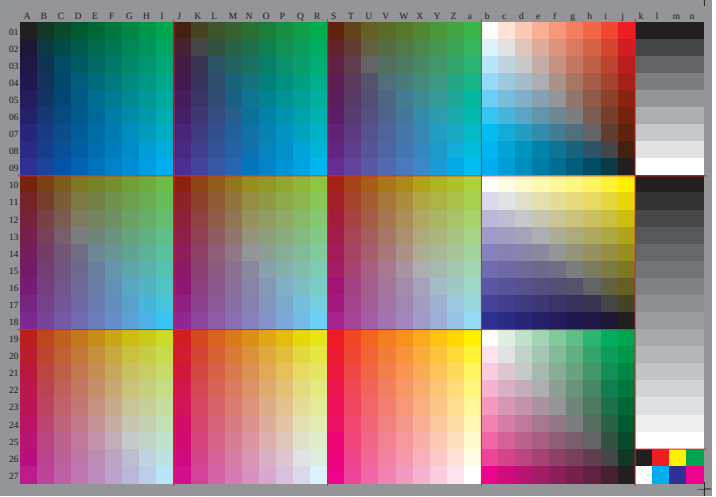
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
$u^*_d = m50o$ $u^*_e = b88r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 49 70 15
$LAB^*LCH^*_{Ma}$: 49 71 11
$lab^*olv^*_{Ma}$: 1.0 0.0 0.5
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.24



FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	j06g
M_{Ma}	49.58	73.93	−9.56	74.55	353	j29g
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

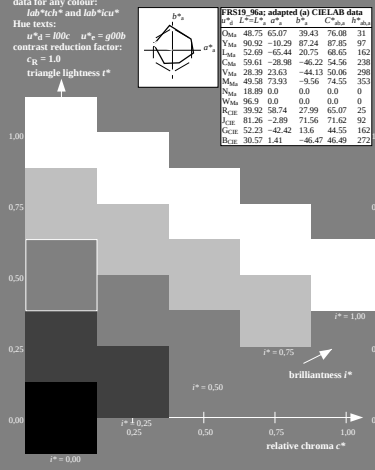
FRS19_96a; adapted (a) CIELAB data						
u^*_d	L^*_{ch}	L^*_{icu}	a^*_{icu}	b^*_{icu}	C^*_{icu}	h^*_{icu}
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00r	90.92	−10.29	87.24	87.85	97	j06g
y25r	78.57	−28.11	65.75	71.51	113	j29g
y50r	69.46	−41.25	49.92	64.75	130	j53g
y75r	61.32	−52.99	35.76	63.92	146	j76g
l00c	52.69	−65.44	20.75	68.65	162	g00b
l50c	56.55	−45.12	−16.57	48.07	200	g34b
c00v	59.61	−28.98	−46.22	54.56	238	g60b
c50v	43.33	−1.54	−45.13	45.16	268	g96b
v00m	28.39	23.63	−44.13	50.06	298	b23r
v50m	36.9	43.84	−30.24	53.26	325	b47r
m00o	49.58	73.93	−9.56	74.55	353	b71r
m50o	49.17	69.55	14.68	71.08	12	b88r

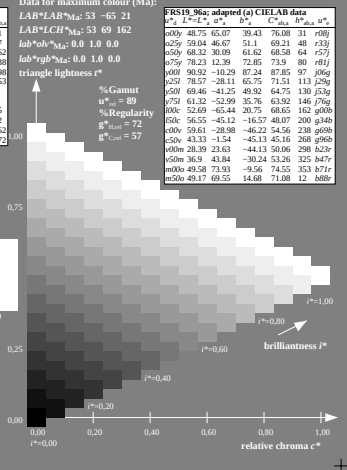


Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$ $u^*_d = g00b$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = l00c$ $u^*_e = g00b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 53 −65 21
$LAB^*LCH^*_{Ma}$: 53 69 162
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
triangle lightness t^*





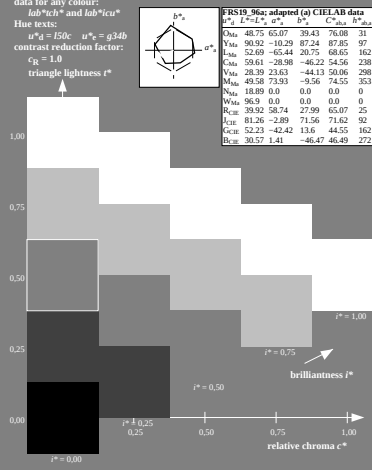
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
Y_{Ma}	90.92	−10.29	87.24	87.85	97	*r33j*
L_{Ma}	52.69	−65.44	20.75	68.65	162	*r57j*
C_{Ma}	59.61	−28.98	−46.22	54.56	238	*r81j*
V_{Ma}	28.39	23.63	−44.13	50.06	298	*j06g*
M_{Ma}	49.58	73.93	−9.56	74.55	353	*j29g*
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

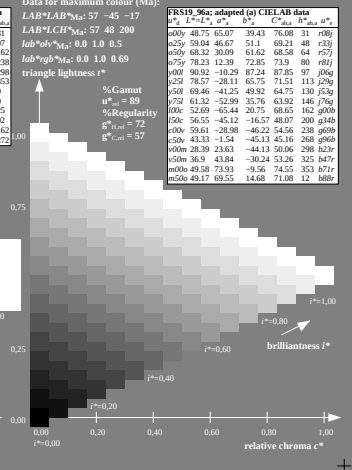
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e
o00y	48.75	65.07	39.43	76.08	31	*r08j*
o25y	59.04	46.67	51.1	69.21	48	*r33j*
o50y	68.32	30.09	61.62	68.58	64	*r57j*
o75y	78.23	12.39	72.85	73.9	80	*r81j*
y00t	90.92	−10.29	87.24	87.85	97	*j06g*
y25t	78.57	−28.11	65.75	71.51	113	*j29g*
y50t	69.46	−41.25	49.92	64.75	130	*j53g*
y75t	61.32	−52.99	35.76	63.92	146	*j76g*
l00c	52.69	−65.44	20.75	68.65	162	*g00b*
l50c	56.55	−45.12	−16.57	48.07	200	*g34b*
c00v	59.61	−28.98	−46.22	54.56	238	*g69b*
c50v	43.33	−1.54	−45.13	45.16	268	*g96b*
v00m	28.39	23.63	−44.13	50.06	298	*b23r*
v50m	36.9	43.84	−30.24	53.26	325	*b47r*
m00o	49.58	73.93	−9.56	74.55	353	*b71r*
m50o	49.17	69.55	14.68	71.08	12	*b88r*

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.556$ $u^*_d = g25b$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = l50c$ $u^*_e = g34b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 57 −45 −17
$LAB^*LCH^*_{Ma}$: 57 48 200
$lab^*olv^*_{Ma}$: 0.0 1.0 0.5
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.69
triangle lightness t^*





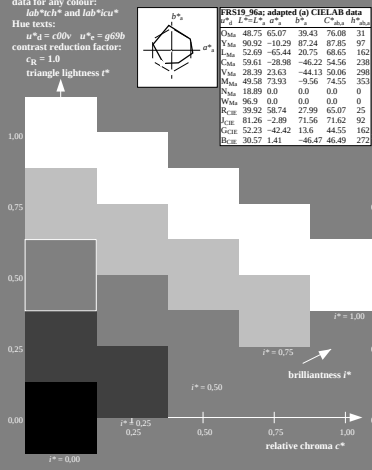
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
Y_{Ma}	90.92	−10.29	87.24	87.85	97	*r33j*
L_{Ma}	52.69	−65.44	20.75	68.65	162	*r57j*
C_{Ma}	59.61	−28.98	−46.22	54.56	238	*r81j*
V_{Ma}	28.39	23.63	−44.13	50.06	298	*j06g*
M_{Ma}	49.58	73.93	−9.56	74.55	353	*j29g*
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

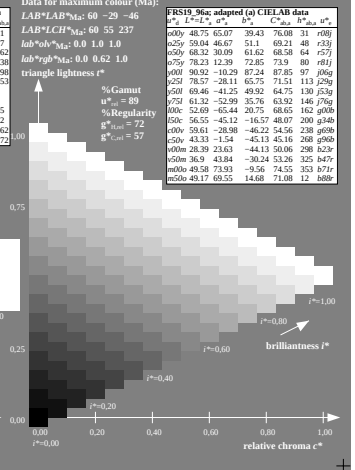
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e
o00y	48.75	65.07	39.43	76.08	31	*r08j*
o25y	59.04	46.67	51.1	69.21	48	*r33j*
o50y	68.32	30.09	61.62	68.58	64	*r57j*
o75y	78.23	12.39	72.85	73.9	80	*r81j*
y00t	90.92	−10.29	87.24	87.85	97	*j06g*
y25t	78.57	−28.11	65.75	71.51	113	*j29g*
y50t	69.46	−41.25	49.92	64.75	130	*j53g*
y75t	61.32	−52.99	35.76	63.92	146	*j76g*
l00c	52.69	−65.44	20.75	68.65	162	*g00b*
l50c	56.55	−45.12	−16.57	48.07	200	*g34b*
c00v	59.61	−28.98	−46.22	54.56	238	*g69b*
c50v	43.33	−1.54	−45.13	45.16	268	*g96b*
v00m	28.39	23.63	−44.13	50.06	298	*b23r*
v50m	36.9	43.84	−30.24	53.26	325	*b47r*
m00o	49.58	73.93	−9.56	74.55	353	*b71r*
m50o	49.17	69.55	14.68	71.08	12	*b88r*

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.661$ $u^*_d = g50b$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = c00v$ $u^*_e = g69b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 60 −29 −46
$LAB^*LCH^*_{Ma}$: 60 55 237
$lab^*olv^*_{Ma}$: 0.0 1.0 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.62 1.0
triangle lightness t^*





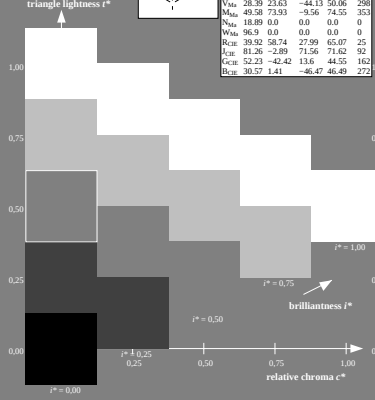
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
Y_{Ma}	90.92	−10.29	87.24	87.85	97	*r33j*
L_{Ma}	52.69	−65.44	20.75	68.65	162	*r57j*
C_{Ma}	59.61	−28.98	−46.22	54.56	238	*r81j*
V_{Ma}	28.39	23.63	−44.13	50.06	298	*j06g*
M_{Ma}	49.58	73.93	−9.56	74.55	353	*j29g*
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

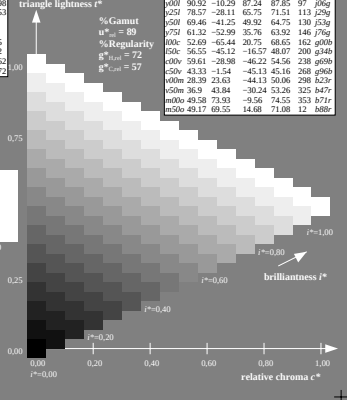
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e
o00y	48.75	65.07	39.43	76.08	31	*r08j*
o25y	59.04	46.67	51.1	69.21	48	*r33j*
o50y	68.32	30.09	61.62	68.58	64	*r57j*
o75y	78.23	12.39	72.85	73.9	80	*r81j*
y00t	90.92	−10.29	87.24	87.85	97	*j06g*
y25t	78.57	−28.11	65.75	71.51	113	*j29g*
y50t	69.46	−41.25	49.92	64.75	130	*j53g*
y75t	61.32	−52.99	35.76	63.92	146	*j76g*
l00c	52.69	−65.44	20.75	68.65	162	*g00b*
l50c	56.55	−45.12	−16.57	48.07	200	*g34b*
c00v	59.61	−28.98	−46.22	54.56	238	*g69b*
c50v	43.33	−1.54	−45.13	45.16	268	*g96b*
v00m	28.39	23.63	−44.13	50.06	298	*b23r*
v50m	36.9	43.84	−30.24	53.26	325	*b47r*
m00o	49.58	73.93	−9.56	74.55	353	*b71r*
m50o	49.17	69.55	14.68	71.08	12	*b88r*

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.745$ $u^*_d = g75b$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = c50v$ $u^*_e = g96b$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 43 −2 −45
$LAB^*LCH^*_{Ma}$: 43 45 268
$lab^*olv^*_{Ma}$: 0.0 0.5 1.0
$lab^*rgb^*_{Ma}$: 0.0 0.07 1.0
triangle lightness t^*





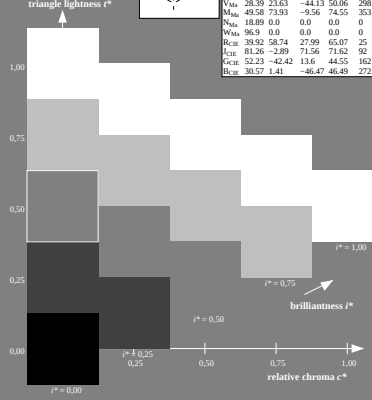
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
Y_{Ma}	90.92	−10.29	87.24	87.85	97	*r33j*
L_{Ma}	52.69	−65.44	20.75	68.65	162	*r57j*
C_{Ma}	59.61	−28.98	−46.22	54.56	238	*r81j*
V_{Ma}	28.39	23.63	−44.13	50.06	298	*j06g*
M_{Ma}	49.58	73.93	−9.56	74.55	353	*j29g*
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

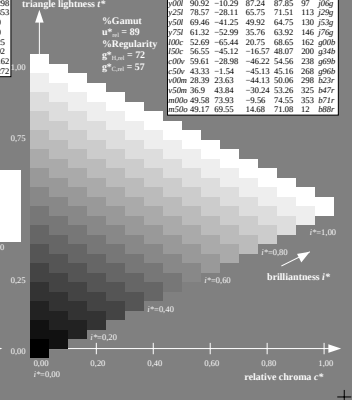
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e
o00y	48.75	65.07	39.43	76.08	31	*r08j*
o25y	59.04	46.67	51.1	69.21	48	*r33j*
o50y	68.32	30.09	61.62	68.58	64	*r57j*
o75y	78.23	12.39	72.85	73.9	80	*r81j*
y00t	90.92	−10.29	87.24	87.85	97	*j06g*
y25t	78.57	−28.11	65.75	71.51	113	*j29g*
y50t	69.46	−41.25	49.92	64.75	130	*j53g*
y75t	61.32	−52.99	35.76	63.92	146	*j76g*
l00c	52.69	−65.44	20.75	68.65	162	*g00b*
l50c	56.55	−45.12	−16.57	48.07	200	*g34b*
c00v	59.61	−28.98	−46.22	54.56	238	*g69b*
c50v	43.33	−1.54	−45.13	45.16	268	*g96b*
v00m	28.39	23.63	−44.13	50.06	298	*b23r*
v50m	36.9	43.84	−30.24	53.26	325	*b47r*
m00o	49.58	73.93	−9.56	74.55	353	*b71r*
m50o	49.17	69.55	14.68	71.08	12	*b88r*

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.828$ $u^*_d = b00r$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = v00m$ $u^*_e = b23r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 28 24 −44
$LAB^*LCH^*_{Ma}$: 28 50 298
$lab^*olv^*_{Ma}$: 0.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.46 0.0 1.0
triangle lightness t^*





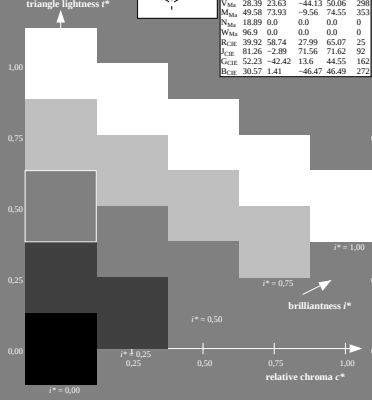
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
Y_{Ma}	90.92	−10.29	87.24	87.85	97	*r33j*
L_{Ma}	52.69	−65.44	20.75	68.65	162	*r57j*
C_{Ma}	59.61	−28.98	−46.22	54.56	238	*r81j*
V_{Ma}	28.39	23.63	−44.13	50.06	298	*j06g*
M_{Ma}	49.58	73.93	−9.56	74.55	353	*j29g*
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

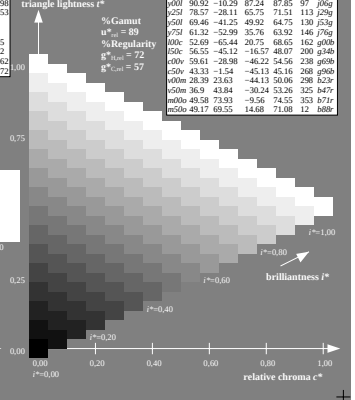
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e
o00y	48.75	65.07	39.43	76.08	31	*r08j*
o25y	59.04	46.67	51.1	69.21	48	*r33j*
o50y	68.32	30.09	61.62	68.58	64	*r57j*
o75y	78.23	12.39	72.85	73.9	80	*r81j*
y00t	90.92	−10.29	87.24	87.85	97	*j06g*
y25t	78.57	−28.11	65.75	71.51	113	*j29g*
y50t	69.46	−41.25	49.92	64.75	130	*j53g*
y75t	61.32	−52.99	35.76	63.92	146	*j76g*
l00c	52.69	−65.44	20.75	68.65	162	*g00b*
l50c	56.55	−45.12	−16.57	48.07	200	*g34b*
c00v	59.61	−28.98	−46.22	54.56	238	*g69b*
c50v	43.33	−1.54	−45.13	45.16	268	*g96b*
v00m	28.39	23.63	−44.13	50.06	298	*b23r*
v50m	36.9	43.84	−30.24	53.26	325	*b47r*
m00o	49.58	73.93	−9.56	74.55	353	*b71r*
m50o	49.17	69.55	14.68	71.08	12	*b88r*

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.904$ $u^*_d = b25r$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = v50m$ $u^*_e = b47r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 37 44 −30
$LAB^*LCH^*_{Ma}$: 37 53 325
$lab^*olv^*_{Ma}$: 0.5 0.0 1.0
$lab^*rgb^*_{Ma}$: 0.94 0.0 1.0
triangle lightness t^*





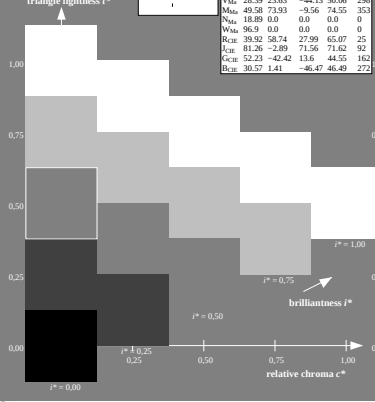
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
Y_{Ma}	90.92	−10.29	87.24	87.85	97	*r33j*
L_{Ma}	52.69	−65.44	20.75	68.65	162	*r57j*
C_{Ma}	59.61	−28.98	−46.22	54.56	238	*r81j*
V_{Ma}	28.39	23.63	−44.13	50.06	298	*j06g*
M_{Ma}	49.58	73.93	−9.56	74.55	353	*j29g*
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

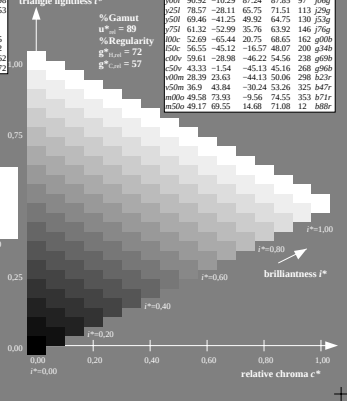
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e
o00y	48.75	65.07	39.43	76.08	31	*r08j*
o25y	59.04	46.67	51.1	69.21	48	*r33j*
o50y	68.32	30.09	61.62	68.58	64	*r57j*
o75y	78.23	12.39	72.85	73.9	80	*r81j*
y00t	90.92	−10.29	87.24	87.85	97	*j06g*
y25t	78.57	−28.11	65.75	71.51	113	*j29g*
y50t	69.46	−41.25	49.92	64.75	130	*j53g*
y75t	61.32	−52.99	35.76	63.92	146	*j76g*
l00c	52.69	−65.44	20.75	68.65	162	*g00b*
l50c	56.55	−45.12	−16.57	48.07	200	*g34b*
c00v	59.61	−28.98	−46.22	54.56	238	*g69b*
c50v	43.33	−1.54	−45.13	45.16	268	*g96b*
v00m	28.39	23.63	−44.13	50.06	298	*b23r*
v50m	36.9	43.84	−30.24	53.26	325	*b47r*
m00o	49.58	73.93	−9.56	74.55	353	*b71r*
m50o	49.17	69.55	14.68	71.08	12	*b88r*

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.98$ $u^*_d = b50r$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = m00o$ $u^*_e = b71r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 50 74 −10
$LAB^*LCH^*_{Ma}$: 50 75 352
$lab^*olv^*_{Ma}$: 1.0 0.0 1.0
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.58
triangle lightness t^*





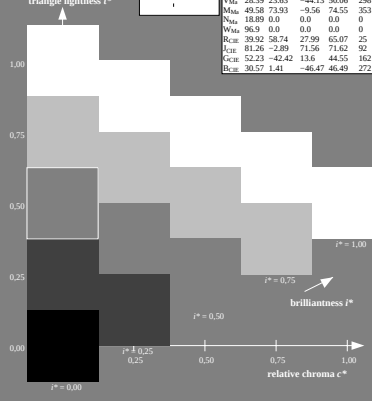
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
Y_{Ma}	90.92	−10.29	87.24	87.85	97	*r33j*
L_{Ma}	52.69	−65.44	20.75	68.65	162	*r57j*
C_{Ma}	59.61	−28.98	−46.22	54.56	238	*r81j*
V_{Ma}	28.39	23.63	−44.13	50.06	298	*j06g*
M_{Ma}	49.58	73.93	−9.56	74.55	353	*j29g*
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	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	
C_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	

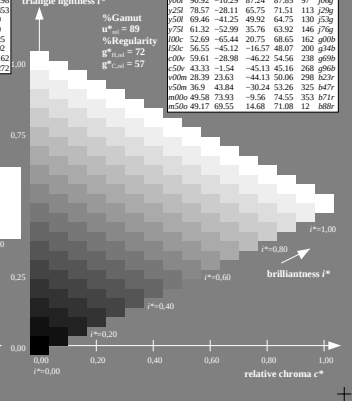
FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	u^*_e
o00y	48.75	65.07	39.43	76.08	31	*r08j*
o25y	59.04	46.67	51.1	69.21	48	*r33j*
o50y	68.32	30.09	61.62	68.58	64	*r57j*
o75y	78.23	12.39	72.85	73.9	80	*r81j*
y00t	90.92	−10.29	87.24	87.85	97	*j06g*
y25t	78.57	−28.11	65.75	71.51	113	*j29g*
y50t	69.46	−41.25	49.92	64.75	130	*j53g*
y75t	61.32	−52.99	35.76	63.92	146	*j76g*
l00c	52.69	−65.44	20.75	68.65	162	*g00b*
l50c	56.55	−45.12	−16.57	48.07	200	*g34b*
c00v	59.61	−28.98	−46.22	54.56	238	*g69b*
c50v	43.33	−1.54	−45.13	45.16	268	*g96b*
v00m	28.39	23.63	−44.13	50.06	298	*b23r*
v50m	36.9	43.84	−30.24	53.26	325	*b47r*
m00o	49.58	73.93	−9.56	74.55	353	*b71r*
m50o	49.17	69.55	14.68	71.08	12	*b88r*

Input and output: Colorimetric Printer Reflective System FRS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.033$ $u^*_d = b75r$

data for any colour:
*lab*tch** and *lab*icu**
Hue texts:
$u^*_d = m50o$ $u^*_e = b88r$
contrast reduction factor:
$c_R = 1.0$
triangle lightness t^*

Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 49 70 15
$LAB^*LCH^*_{Ma}$: 49 71 11
$lab^*olv^*_{Ma}$: 1.0 0.0 0.5
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.24
triangle lightness t^*





FRS19_96a; adapted (a) CIELAB data						
u^*_d	$L^*=L^*_e$	a^*_e	b^*_e	$C^*_{ab,e}$	$h^*_{ab,e}$	
O_{Ma}