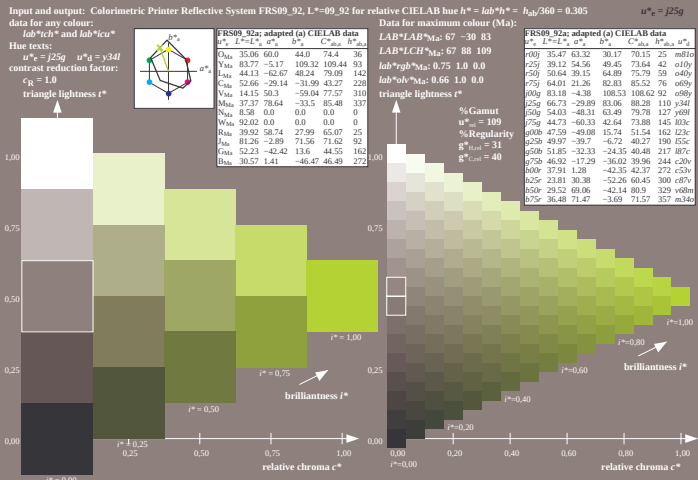
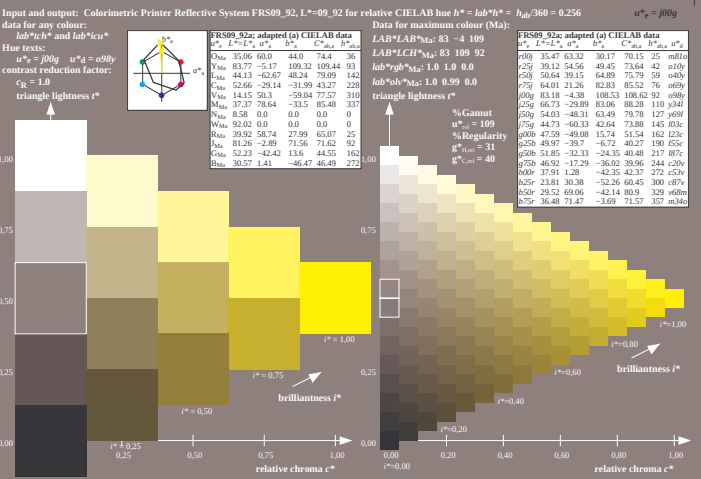
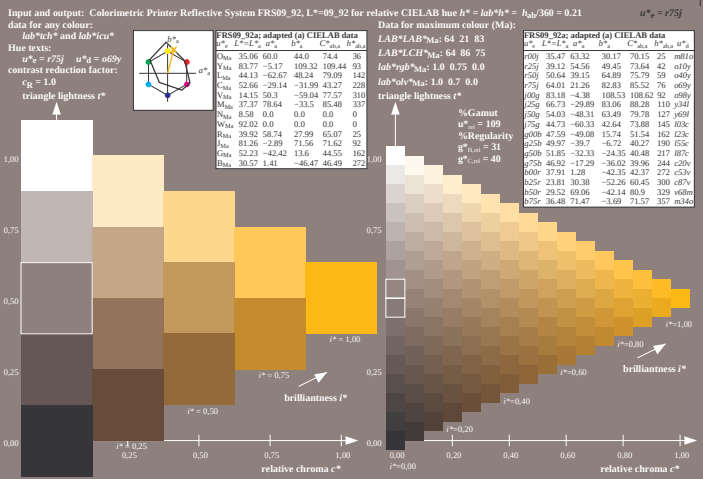
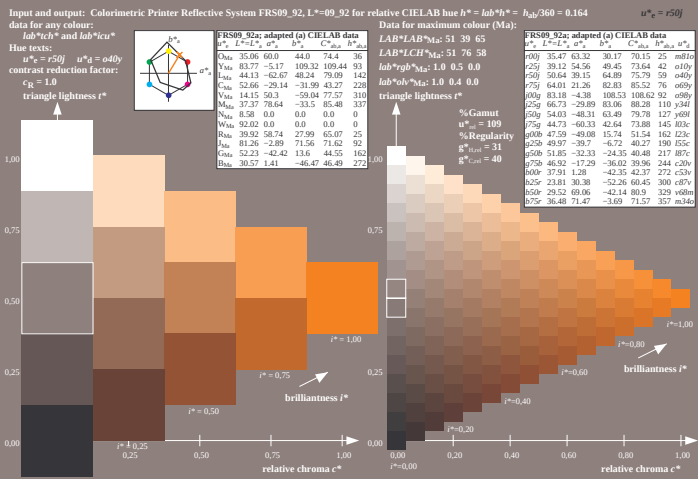
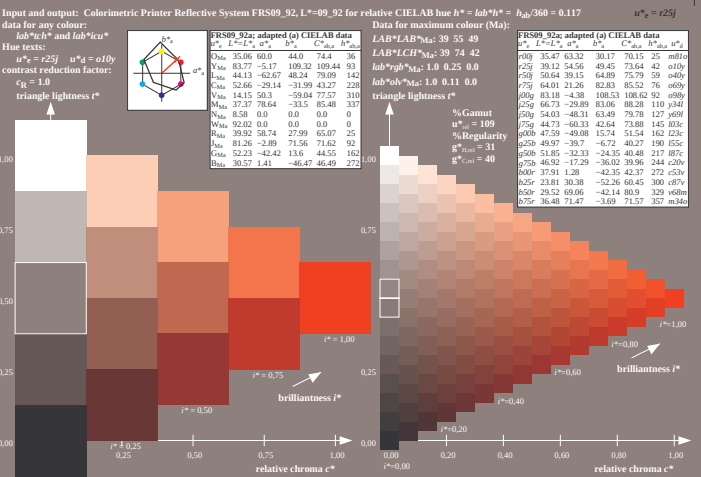
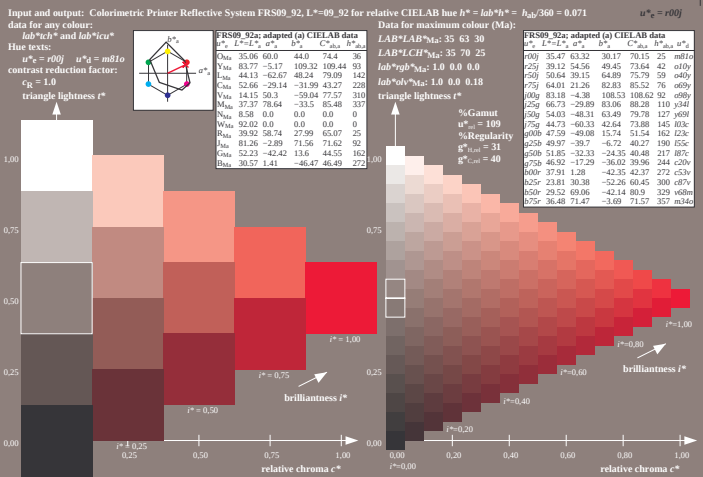
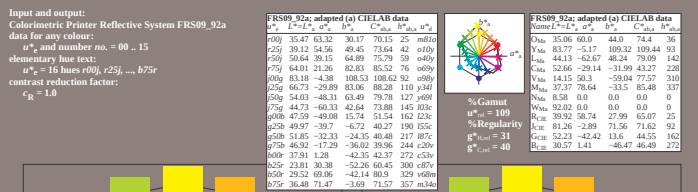
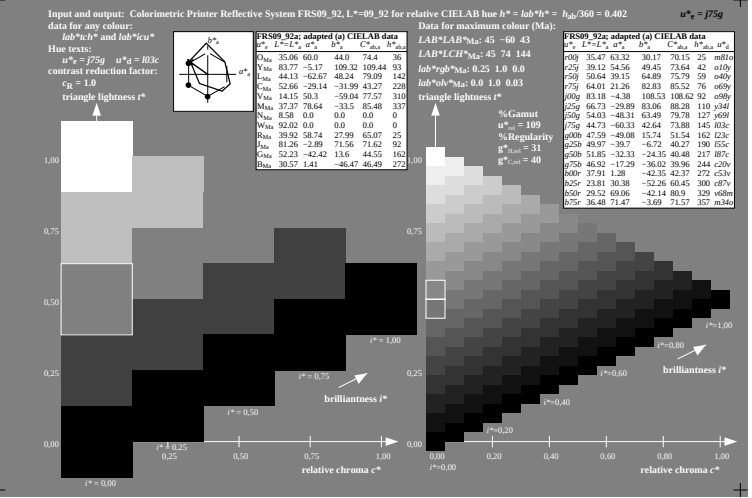
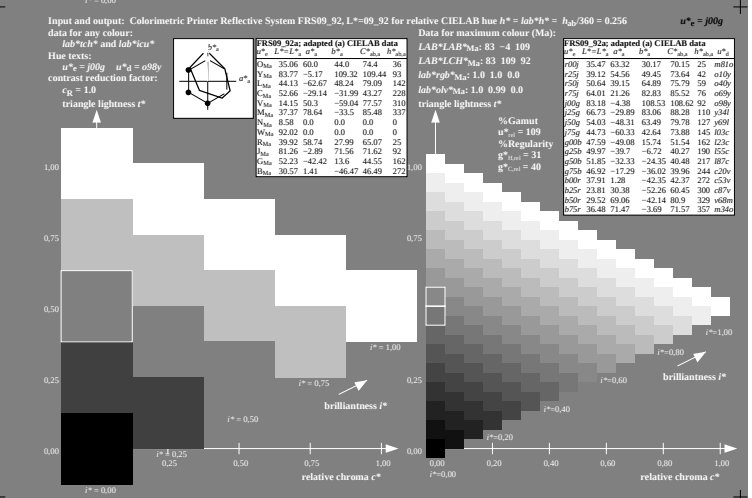
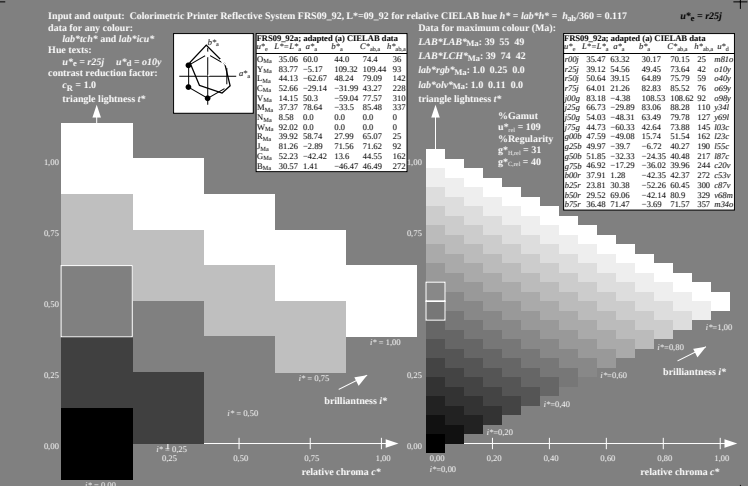






Input and output:
Colorimetric Printer Reflective System FR509_92a
data for any colour:
 u^*_e and number no. = 00...15
elementary hue text:
 $u^*_e = 16$ hues $r00$, $r25$, ..., $b75$
contrast reduction factor:
 $c_R = 1.0$

FR509_92a adapted (a) CIELAB data

u^*_e	L^*	a^*	b^*	C_{ab}^*	h_{ab}^*	u^*_e
000	35.47	63.32	30.17	70.15	25	m80e
025	39.12	54.56	49.45	73.64	42	o10y
050	50.64	39.15	64.89	75.79	59	o40y
075	64.01	21.26	82.83	85.52	76	o69y
100	83.18	-4.38	108.53	108.62	92	o98y
125	66.73	-29.89	83.06	88.28	110	y34d
150	54.03	-48.31	63.49	79.78	127	y68d
175	44.73	-60.33	42.64	73.88	145	R3c
200	47.59	-49.08	15.74	51.54	162	I23c
225	49.87	-39.7	-6.72	40.27	180	I55c
250	51.85	-32.33	-24.35	40.48	217	B7c
275	46.82	-17.29	-36.02	39.96	244	c30v
300	37.91	1.28	-42.35	42.37	272	c53v
325	23.81	30.38	-52.26	60.45	300	c67v
350	29.52	69.06	-42.14	80.9	329	v68m
375	36.48	71.47	-3.69	71.57	357	m34e



FR509_92a adapted (a) CIELAB data

u^*_e	L^*	a^*	b^*	C_{ab}^*	h_{ab}^*	u^*_e
000	35.06	60.0	44.0	74.4	36	
025	39.12	51.7	109.32	109.44	93	
050	44.13	62.67	48.24	79.09	142	
075	52.66	-29.14	-31.99	43.27	228	
100	83.18	-4.38	108.53	108.62	92	
125	66.73	-29.89	83.06	88.28	110	
150	54.03	-48.31	63.49	79.78	127	
175	44.73	-60.33	42.64	73.88	145	
200	47.59	-49.08	15.74	51.54	162	
225	49.87	-39.7	-6.72	40.27	180	
250	51.85	-32.33	-24.35	40.48	217	
275	46.82	-17.29	-36.02	39.96	244	
300	37.91	1.28	-42.35	42.37	272	
325	23.81	30.38	-52.26	60.45	300	
350	29.52	69.06	-42.14	80.9	329	
375	36.48	71.47	-3.69	71.57	357	

Input and output:
Colorimetric Printer Reflective System FR509_92, L*=09_92 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}^*/360 = 0.071$
data for any colour:
 lab^*h^* and lab^*icu^*
Hue texts:
 $u^*_e = r00$ $u^*_d = m80e$
contrast reduction factor:
 $c_R = 1.0$
triangle lightness l^*



FR509_92a adapted (a) CIELAB data

u^*_e	L^*	a^*	b^*	C_{ab}^*	h_{ab}^*	u^*_e
000	35.06	60.0	44.0	74.4	36	
025	39.12	51.7	109.32	109.44	93	
050	44.13	62.67	48.24	79.09	142	
075	52.66	-29.14	-31.99	43.27	228	
100	83.18	-4.38	108.53	108.62	92	
125	66.73	-29.89	83.06	88.28	110	
150	54.03	-48.31	63.49	79.78	127	
175	44.73	-60.33	42.64	73.88	145	
200	47.59	-49.08	15.74	51.54	162	
225	49.87	-39.7	-6.72	40.27	180	
250	51.85	-32.33	-24.35	40.48	217	
275	46.82	-17.29	-36.02	39.96	244	
300	37.91	1.28	-42.35	42.37	272	
325	23.81	30.38	-52.26	60.45	300	
350	29.52	69.06	-42.14	80.9	329	
375	36.48	71.47	-3.69	71.57	357	

Data for maximum colour (Ma):

u^*_e	L^*	a^*	b^*	C_{ab}^*	h_{ab}^*	u^*_e
000	35.06	60.0	44.0	74.4	36	
025	39.12	51.7	109.32	109.44	93	
050	44.13	62.67	48.24	79.09	142	
075	52.66	-29.14	-31.99	43.27	228	
100	83.18	-4.38	108.53	108.62	92	
125	66.73	-29.89	83.06	88.28	110	
150	54.03	-48.31	63.49	79.78	127	
175	44.73	-60.33	42.64	73.88	145	
200	47.59	-49.08	15.74	51.54	162	
225	49.87	-39.7	-6.72	40.27	180	
250	51.85	-32.33	-24.35	40.48	217	
275	46.82	-17.29	-36.02	39.96	244	
300	37.91	1.28	-42.35	42.37	272	
325	23.81	30.38	-52.26	60.45	300	
350	29.52	69.06	-42.14	80.9	329	
375	36.48	71.47	-3.69	71.57	357	

FR509_92a adapted (a) CIELAB data

u^*_e	L^*	a^*	b^*	C_{ab}^*	h_{ab}^*	u^*_e
000	35.47	63.32	30.17	70.15	25	m80e
025	39.12	54.56	49.45	73.64	42	o10y
050	50.64	39.15	64.89	75.79	59	o40y
075	64.01	21.26	82.83	85.52	76	o69y
100	83.18	-4.38	108.53	108.62	92	o98y
125	66.73	-29.89	83.06	88.28	110	y34d
150	54.03	-48.31	63.49	79.78	127	y68d
175	44.73	-60.33	42.64	73.88	145	R3c
200	47.59	-49.08	15.74	51.54	162	I23c
225	49.87	-39.7	-6.72	40.27	180	I55c
250	51.85	-32.33	-24.35	40.48	217	B7c
275	46.82	-17.29	-36.02	39.96	244	c30v
300	37.91	1.28	-42.35	42.37	272	c53v
325	23.81	30.38	-52.26	60.45	300	c67v
350	29.52	69.06	-42.14	80.9	329	v68m
375	36.48	71.47	-3.69	71.57	357	m34e

Input and output:
Colorimetric Printer Reflective System FR509_92, L*=09_92 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}^*/360 = 0.117$
data for any colour:
 lab^*h^* and lab^*icu^*
Hue texts:
 $u^*_e = r25$ $u^*_d = o10y$
contrast reduction factor:
 $c_R = 1.0$
triangle lightness l^*



FR509_92a adapted (a) CIELAB data

u^*_e	L^*	a^*	b^*	C_{ab}^*	h_{ab}^*	u^*_e
000	35.47	63.32	30.17	70.15	25	m80e
025	39.12	54.56	49.45	73.64	42	o10y
050	50.64	39.15	64.89	75.79	59	o40y
075	64.01	21.26	82.83	85.52	76	o69y
100	83.18	-4.38	108.53	108.62	92	o98y
125	66.73	-29.89	83.06	88.28	110	y34d
150	54.03	-48.31	63.49	79.78	127	y68d
175	44.73	-60.33	42.64	73.88	145	R3c
200	47.59	-49.08	15.74	51.54	162	I23c
225	49.87	-39.7	-6.72	40.27	180	I55c
250	51.85	-32.33	-24.35	40.48	217	B7c
275	46.82	-17.29	-36.02	39.96	244	c30v
300	37.91	1.28	-42.35	42.37	272	c53v
325	23.81	30.38	-52.26	60.45	300	c67v
350	29.52	69.06	-42.14	80.9	329	v68m
375	36.48	71.47	-3.69	71.57	357	m34e

Data for maximum colour (Ma):

u^*_e	L^*	a^*	b^*	C_{ab}^*	h_{ab}^*	u^*_e
000	35.47	63.32	30.17	70.15	25	m80e
025	39.12	54.56	49.45	73.64	42	o10y
050	50.64	39.15	64.89	75.79	59	o40y
075	64.01	21.26	82.83	85.52	76	o69y
100	83.18	-4.38	108.53	108.62	92	o98y
125	66.73	-29.89	83.06	88.28	110	y34d
150	54.03	-48.31	63.49	79.78	127	y68d
175	44.73	-60.33	42.64	73.88	145	R3c
200	47.59	-49.08	15.74	51.54	162	I23c
225	49.87	-39.7	-6.72	40.27	180	I55c
250	51.85	-32.33	-24.35	40.48	217	B7c
275	46.82	-17.29	-36.02	39.96	244	c30v
300	37.91	1.28	-42.35	42.37	272	c53v
325	23.81	30.38	-52.26	60.45	300	c67v
350	29.52	69.06	-42.14	80.9	329	v68m
375	36.48	71.47	-3.69	71.57	357	m34e

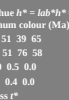
FR509_92a adapted (a) CIELAB data

u^*_e	L^*	a^*	b^*	C_{ab}^*	h_{ab}^*	u^*_e
000	35.47	63.32	30.17	70.15	25	m80e
025	39.12	54.56	49.45	73.64	42	o10y
050	50.64	39.15	64.89	75.79	59	o40y
075	64.01	21.26	82.83	85.52	76	o69y
100	83.18	-4.38	108.53	108.62	92	o98y
125	66.73	-29.89	83.06	88.28	110	y34d
150	54.03	-48.31	63.49	79.78	127	y68d
175	44.73	-60.33	42.64	73.88	145	R3c
200	47.59	-49.08	15.74	51.54	162	I23c
225	49.87	-39.7	-6.72	40.27	180	I55c
250	51.85	-32.33	-24.35	40.48	217	B7c
275	46.82	-17.29	-36.02	39.96	244	c30v
300	37.91	1.28	-42.35	42.37	272	c53v
325	23.81	30.38	-52.26	60.45	300	c67v
350	29.52	69.06	-42.14	80.9	329	v68m
375	36.48	71.47	-3.69	71.57	357	m34e

Input and output:
Colorimetric Printer Reflective System FR509_92, L*=09_92 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}^*/360 = 0.164$
data for any colour:
 lab^*h^* and lab^*icu^*
Hue texts:
 $u^*_e = r50$ $u^*_d = o40y$
contrast reduction factor:
 $c_R = 1.0$
triangle lightness l^*

FR509_92a adapted (a) CIELAB data

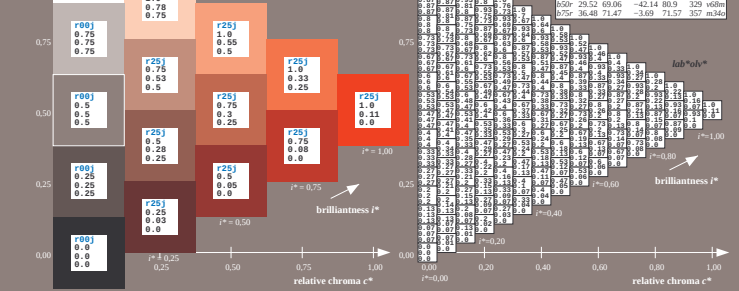
u^*_e	L^*	a^*	b^*	C_{ab}^*	h_{ab}^*	u^*_e
000	35.47	63.32	30.17	70.15	25	m80e
025	39.12	54.56	49.45	73.64	42	o10y
050	50.64	39.15	64.89	75.79	59	o40y
075	64.01	21.26	82.83	85.52	76	o69y
100	83.18	-4.38	108.53	108.62	92	o98y
125	66.73	-29.89	83.06	88.28	110	y34d
150	54.03	-48.31	63.49	79.78	127	y68d
175	44.73	-60.33	42.64	73.88	145	R3c
200	47.59	-49.08	15.74	51.54	162	I23c
225	49.87	-39.7	-6.72	40.27	180	I55c
250	51.85	-32.33	-24.35	40.48	217	B7c
275	46.82	-17.29	-36.02	39.96	244	c30v
300	37.91	1.28	-42.35	42.37	272	c53v
325	23.81	30.38	-52.26	60.45	300	c67v
350	29.52	69.06	-42.14	80.9	329	v68m
375	36.48	71.47	-3.69	71.57	357	m34e



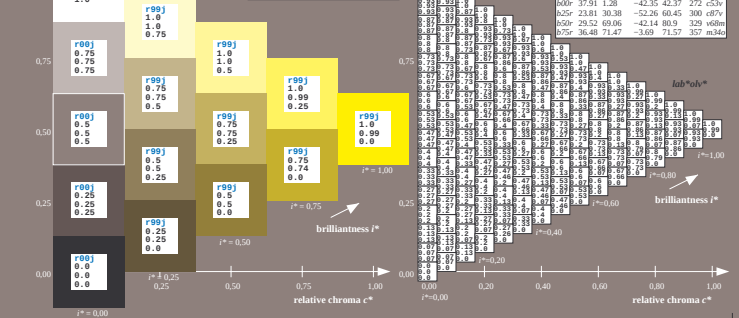
$h_{ab}/360 = 0.164$ $u_e^* = r50$

FR509_92a; adapted (a) CIELAB data					
	L^*	a^*	b^*	C_{ab}^*	h_{ab}^*
000	35.47	63.32	30.17	70.15	25
25	39.12	54.56	49.45	73.64	42
50	44.13	38.51	62.89	75.79	59
75	64.01	21.26	82.83	85.52	76
100	83.18	-4.38	108.53	108.62	92
125	66.73	-29.89	83.06	88.28	110
150	54.03	-48.31	63.49	79.78	127
175	44.73	-60.33	42.64	73.88	145
200	47.59	-49.08	15.74	51.52	162
225	49.57	-39.7	-6.72	40.27	180
250	51.85	-32.23	-24.35	40.48	217
275	46.92	-17.19	-36.02	39.96	244

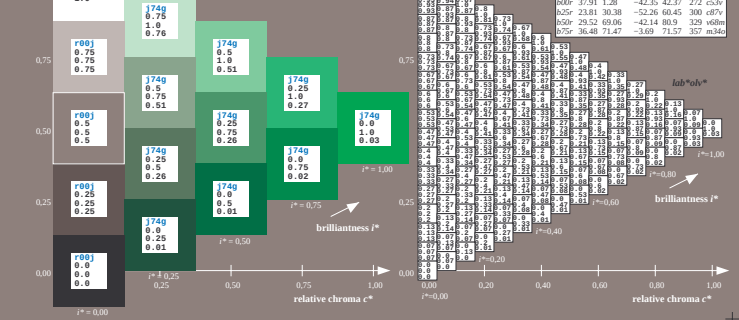
ELAB data			
C_{ab}	h^*	a^*	b^*
70.15	25	m81o	
73.64	42	o10y	
75.79	59	o40y	
85.52	76	o69y	
108.62	92	o98y	
88.28	110	y34l	
79.78	127	y69l	
73.88	145	l03c	
51.54	162	l23c	
40.27	190	l55c	
40.48	217	l87c	
39.96	244	c20v	
42.37	272	c53v	
60.45	300	c87v	

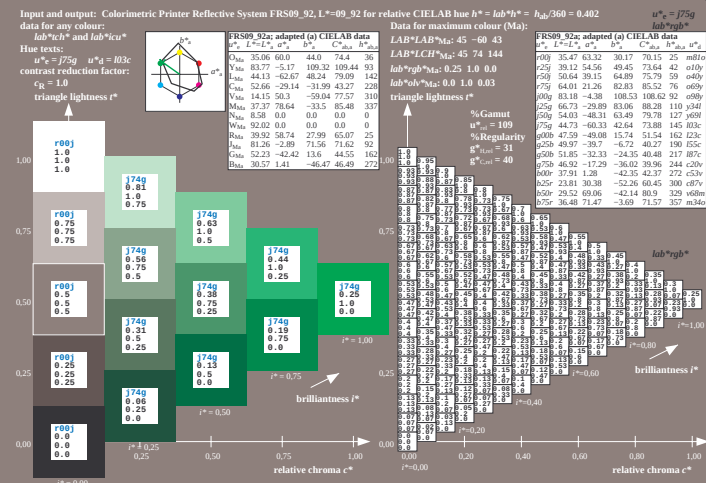
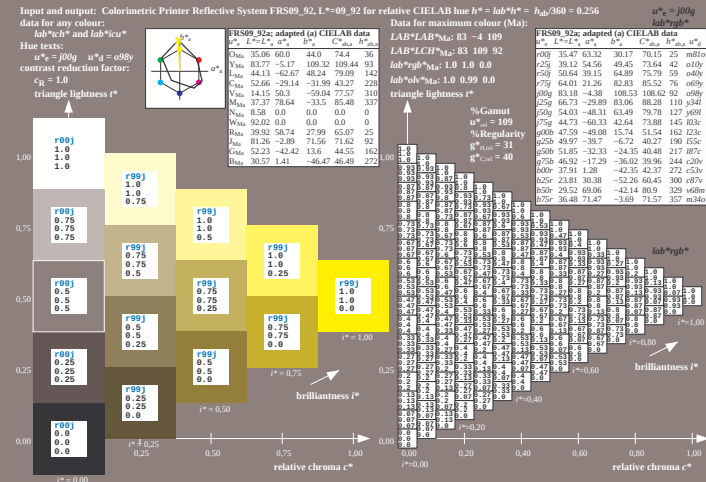
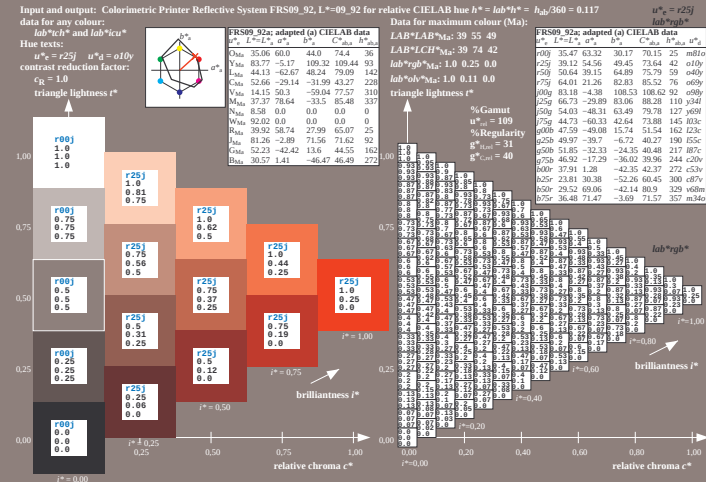


$u^*_e = j00g$ lab^*olv^*			
ELAB data			
$C^*_{sh,2}$	$h^*_{sh,2}$	u^*_d	
70.15	25	m81o	
73.64	42	o104y	
75.79	59	a40y	
85.52	76	o69y	
108.62	92	o58y	
88.28	110	y24l	
79.78	127	y69l	
73.88	145	l03c	
51.54	162	l23c	
40.27	190	l55c	
40.48	217	l87c	
39.96	244	c20v	

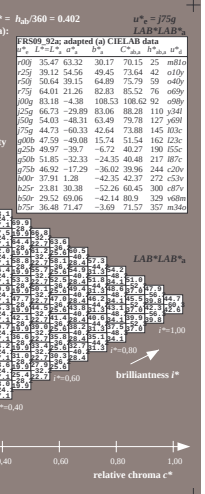
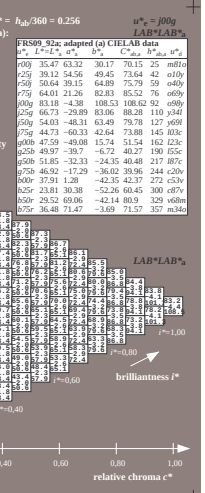
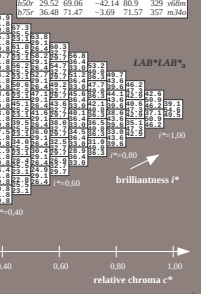


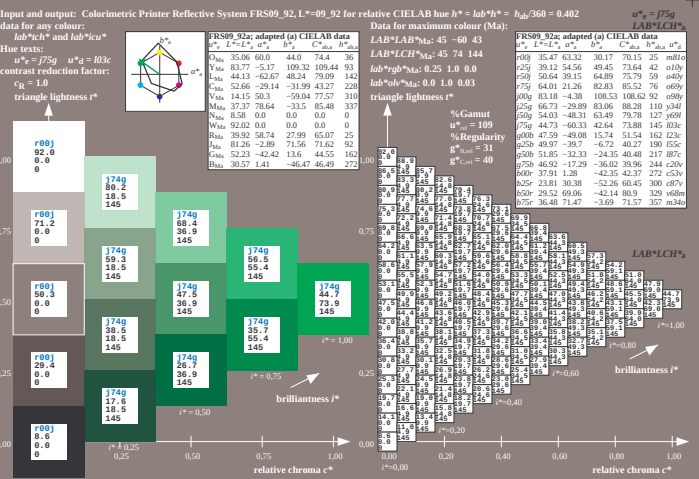
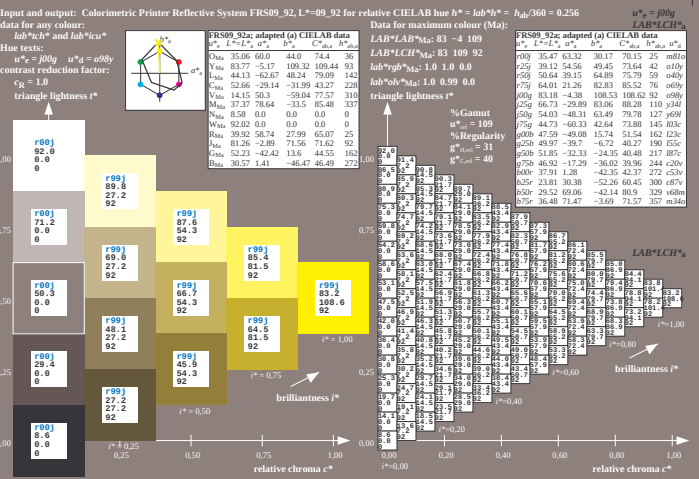
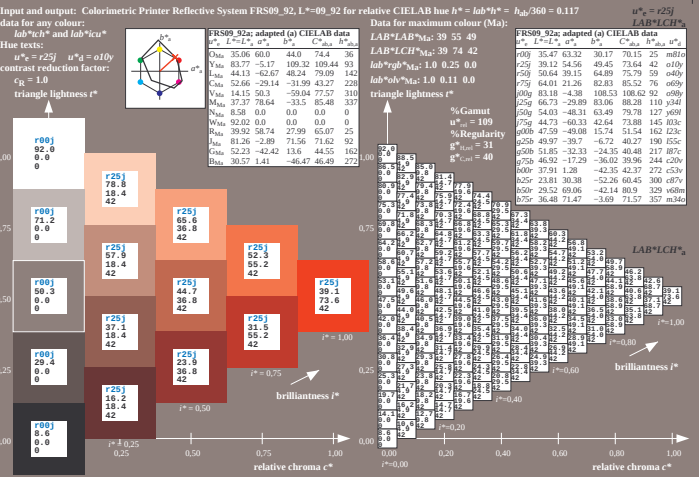
ELAB data		
C* _{ab,a}	h* _{ab,a}	u* _d
70.15	25	m81o
73.64	42	o10y
75.79	59	o40y
85.52	76	o69y
108.62	92	o98y
88.28	110	y34l
79.78	127	y69l
73.88	145	l03c
51.54	162	l23c
40.27	190	l55c
40.48	217	l87c
39.96	244	c20v
	272	c5v



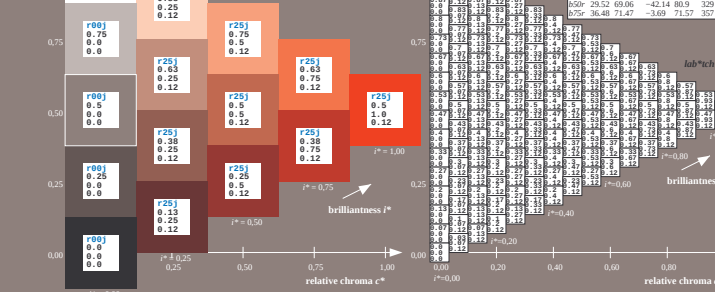


3 data		
x	$h^*_{ab, a}$	$u^*_{ab, a}$
25	25	m810
42	42	o10y
59	59	o40y
76	76	o69y
92	92	o98y
110	110	y341
127	127	y69l
145	145	l03c
162	162	l23c
179	190	l55c
217	217	l87c
244	244	c20v
272	272	c53v
300	300	c87v

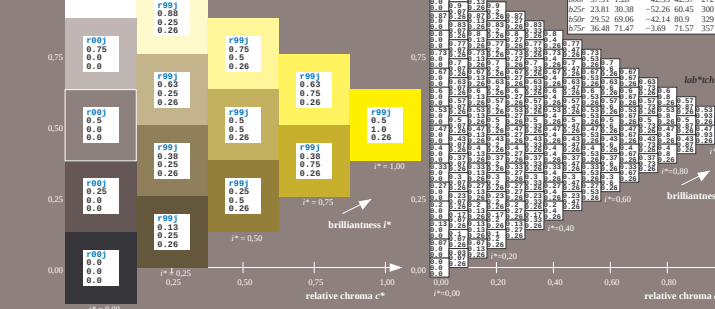




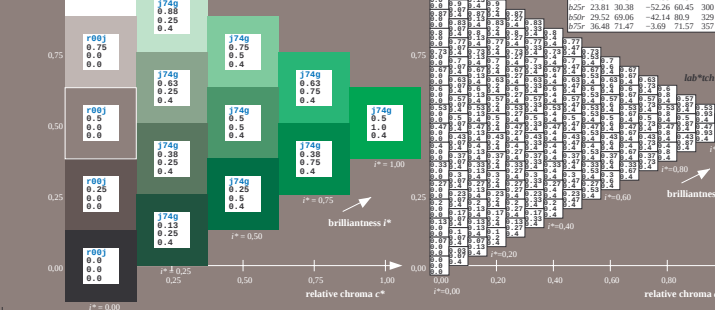
a) CIELAB data		
$u^*_e = r_s$ lab^*tch	$C^*_{ab,s}$	$h^*_{ab,s}$
80.17	70.15	25
89.45	73.64	42
64.89	75.79	59
82.83	85.52	76
108.53	108.62	92
83.06	88.28	110
53.49	79.78	127
82.64	73.88	145
55.74	51.54	162
-6.72	40.27	190
-24.35	40.48	217
-36.02	39.96	244
-42.35	42.37	272
-52.26	60.45	300

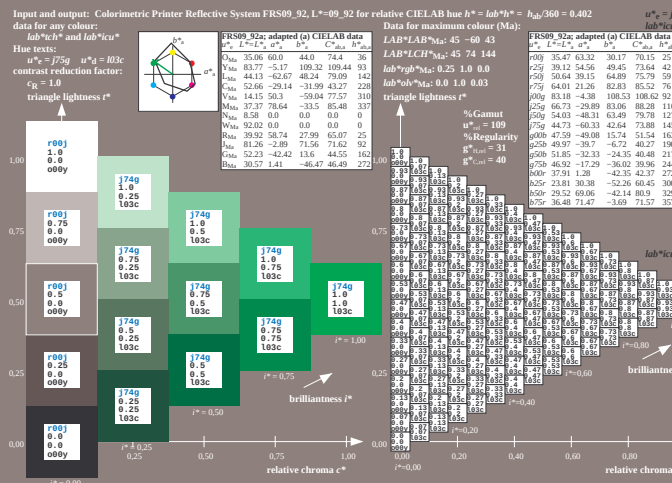
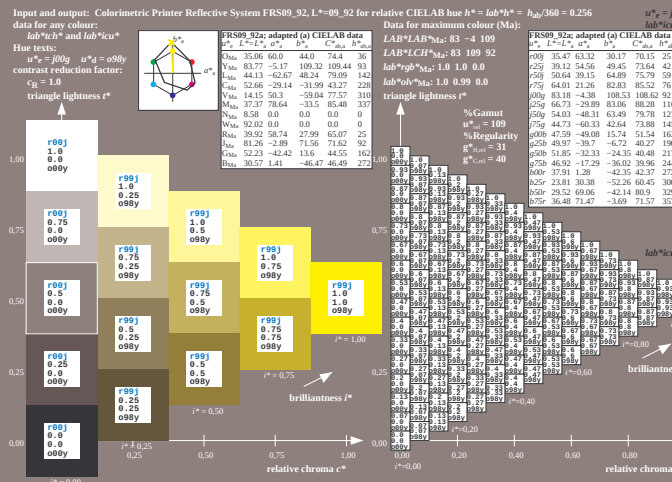
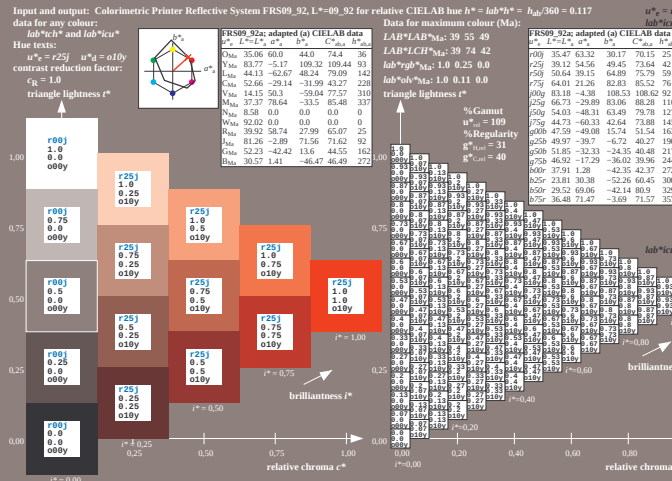


u^*_{e} = j lab^*tch	$C^*_{\text{ab},a}$	$h^*_{\text{ab},a}$
80.17	70.15	25
89.45	73.64	42
84.89	75.79	59
82.83	85.52	76
108.53	108.62	92
83.06	88.28	110
83.49	79.78	127
82.64	73.88	145
85.74	51.54	162
86.72	40.27	190
84.35	40.48	217
86.02	39.96	244
84.35	42.37	272



	$u^*_e = j^*_d$ lab^*tch	
a) CIELAB data		
a^*	C^*_{ab}	h^*_{ab}
50.17	70.15	25
49.45	73.64	42
54.89	75.79	59
52.83	85.52	76
108.53	108.62	92
33.06	88.28	110
33.49	79.78	127
32.64	73.88	145
55.74	51.54	162
-6.72	40.27	190
-24.35	40.48	217
-36.02	39.96	244
-42.35	42.37	272

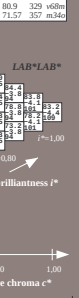




LAB data		
C^*	a^*_{lab}	u^*_d
70.15	25	m81o
73.64	42	o10y
75.79	59	o40y
85.52	76	o69y
106.62	92	o98y
88.28	110	y34l
79.78	127	y69l
73.88	145	l03c
51.54	162	l23c
40.27	190	l55c
40.48	217	l87c
39.96	244	c20v
42.37	272	c53v
60.45	300	c87v



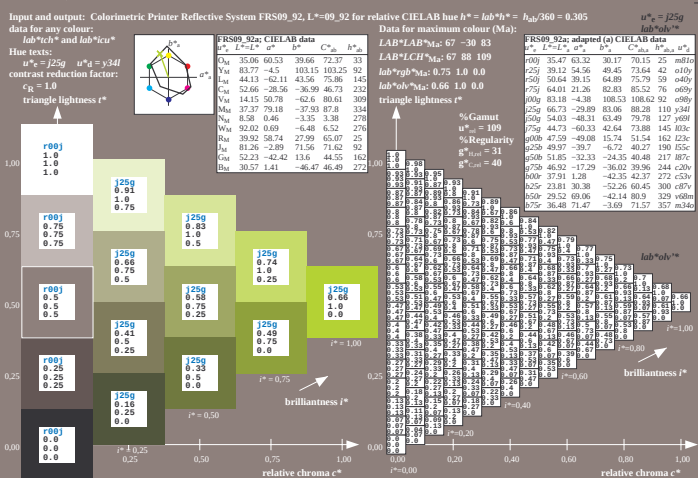
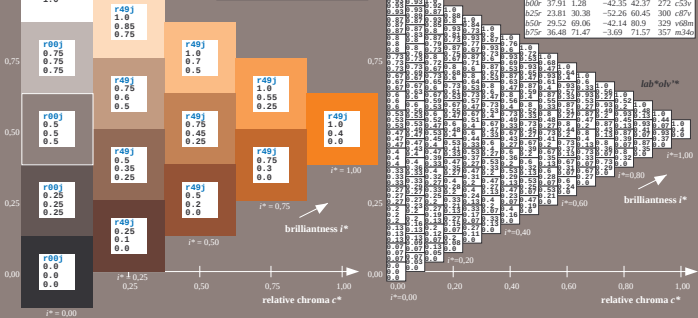
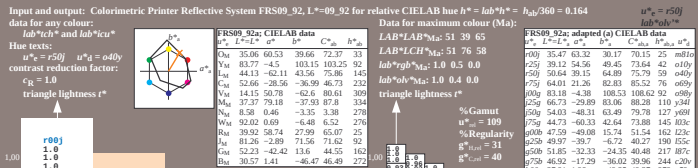
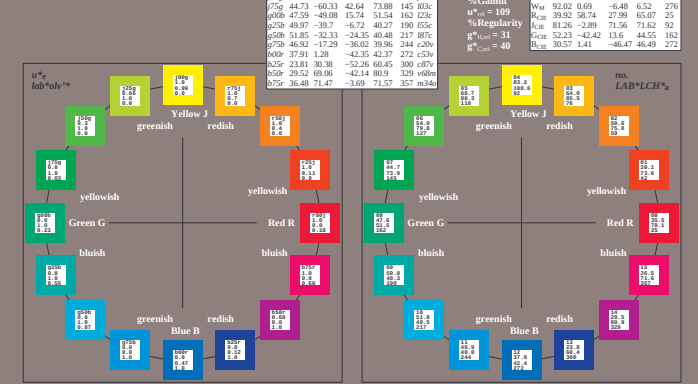
LAB data		
C^* _{ab,LS}	h^* _{ab,LS}	u^*_d
70.15	25	m81o
73.64	42	o10y
75.79	59	o40y
85.52	76	o69y
108.62	92	o98y
88.28	110	y34l
79.78	127	y69l
73.88	145	l03c
51.54	162	l23c
40.27	190	l55c
40.48	217	l87c
39.96	244	c20v
42.37	272	c53v
60.45	300	c87v



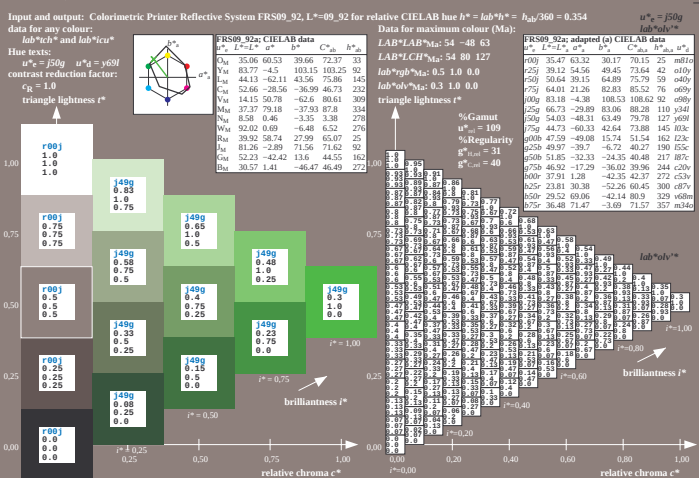
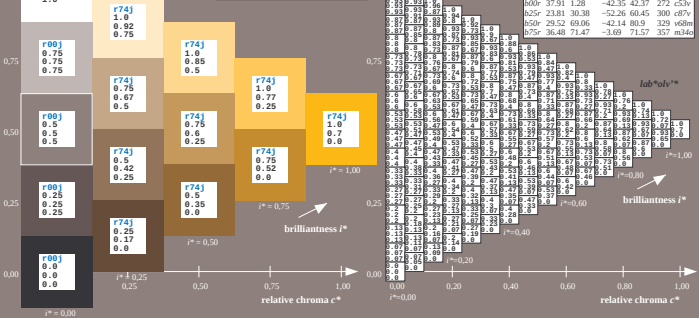
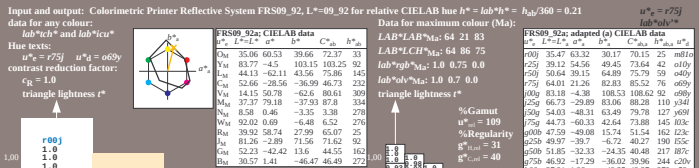
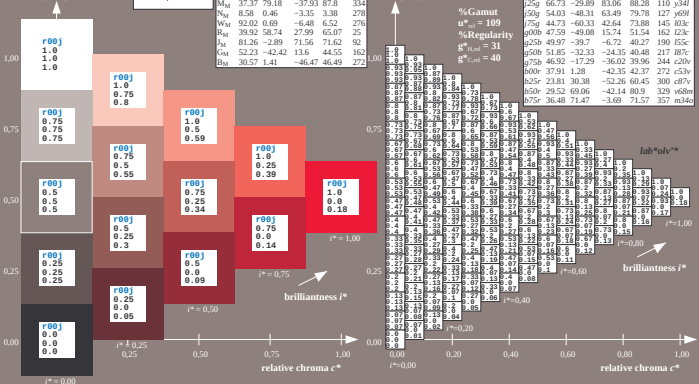
LAB data		
C_{LAB}	h^*	a^*
70.15	25	m81o
73.64	42	o10y
75.79	59	o40y
85.52	76	o69y
108.62	92	o98y
88.28	110	y34l
79.78	127	y69l
73.88	145	103c
51.54	162	123c
40.27	190	155c
40.48	217	187c
39.96	244	c20v
42.37	272	c53v
60.45	300	c87v



Input and output: Colorimetric Printer Reflective System FR509_92a
data for any colour:
 $u^*_c =$ and number $n = 00 \dots 15$
elementary hue test:
 $u^*_c = 16$ hues $r00, r25j, \dots, b75r$
contrast reduction factor:
 $c^*_c = 1.0$



Input and output: Colorimetric Printer Reflective System FR509_92, L*=09_92 for relative CIELAB hue $h^* = lab^*h^* = h_{360}/360 = 0.071$. Hue tests: $u^*_c = r00$, $u^*_a = m0lo$, contrast reduction factor: $c^*_c = 1.0$, triangle lightness l^* .



Input and output: Colorimetric Printer Reflective System FR509_92, L*=09_92 for relative CIELAB hue $h^* = lab^*h^* = h_{360}/360 = 0.117$. Hue tests: $u^*_c = r25j$, $u^*_a = o10y$, contrast reduction factor: $c^*_c = 1.0$, triangle lightness l^* .

