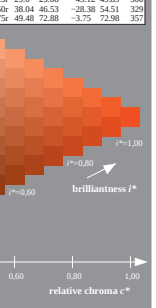
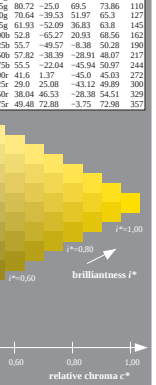


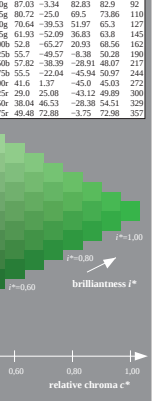
	$L^* = L^*_{ab}$	a^*_{ab}	b^*_{ab}	C^*_{ab}	h^*_{ab}
0j	48.88	66.47	31.67	73.63	25
5j	55.85	52.39	47.48	70.7	42
10j	65.45	35.22	58.37	68.17	59
15j	75.19	17.82	69.41	71.66	76
20j	87.03	-3.34	82.83	82.9	92



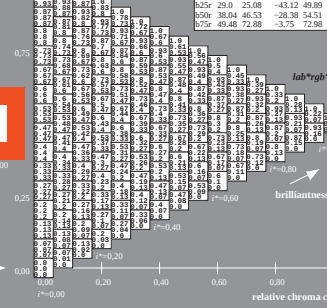
RS19_96a; adapted (a) CIELAB data					
$L^* = \bar{L}_a^*$	$a^* = \bar{a}_a^*$	$b^* = \bar{b}_a^*$	$C^*_{ab,a}$	$h^*_{ab,a}$	
0j	48.88	66.47	31.67	73.63	25
5j	55.85	52.39	47.48	70.7	42
0j	65.45	35.22	58.37	68.17	59
5j	75.19	17.82	69.41	71.66	76
0g	87.03	-3.34	82.83	82.9	92



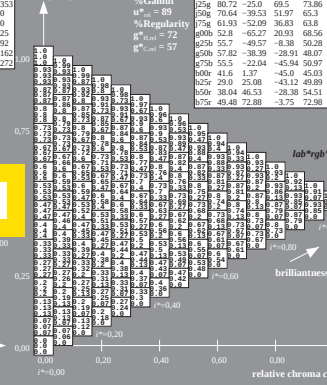
	$L^* = \bar{L}^*_s$	$a^* = \bar{a}^*_s$	$b^* = \bar{b}^*_s$	$C^*_{ab,s}$	$h^*_{ab,s}$
Dj	48.88	66.47	31.67	73.63	25
Sj	55.85	52.39	47.48	70.7	42
Dj	65.45	35.22	58.37	68.17	59
Sj	75.19	17.82	69.41	71.66	76



	ORS19_96a; adapted (a)	CIELAB (a)	$u^* = r25$	lab^*rgb
	$L^* = L^*_{90}$	a^*_{90}	b^*_{90}	$C^*_{90,a}$
r00j	48.88	66.47	31.67	73.63
r25j	55.85	52.39	47.48	70.7
r50j	65.45	35.22	58.37	68.17
r75j	75.19	17.82	69.41	71.66
j00g	87.03	-3.34	82.83	82.9

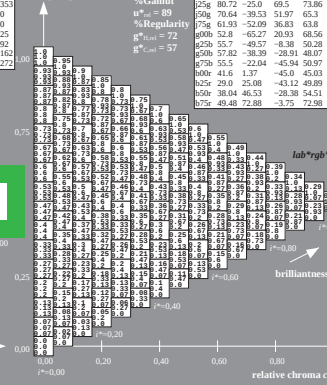


	ORS19_96a; adapted (a)	CIELAB		
	$L^* = \bar{L}_a^*$	$a^* = \bar{a}_a^*$	$b^* = \bar{b}_a^*$	$C^*_{ab,a}$
r00]	48.88	66.47	31.67	73.63
r25]	55.85	52.39	47.48	70.7
r50]	65.45	35.22	58.37	68.17
r75]	75.19	17.82	69.41	71.66
j00g	87.03	-3.34	82.83	82.9



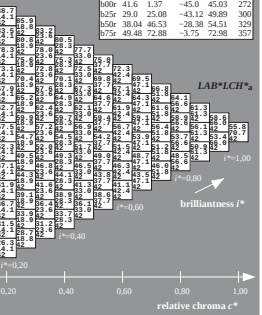
145/360 = 0.402 $u^* = j75$
lab*rgb

ORS19_96a; adapted (a) CIELAB	$L^* = L^*_s$	a^*_s	b^*_s	$C^*_{ab,s}$
r00j	48.88	66.47	31.67	73.63
r25j	55.85	52.39	47.48	70.7
r50j	65.45	35.22	58.37	68.17
r75j	75.19	17.82	69.41	71.66
j00g	87.03	-3.34	82.83	82.9

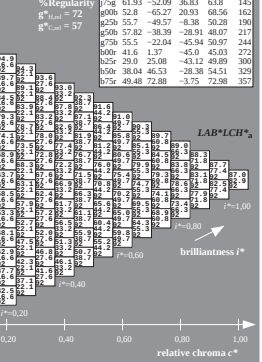




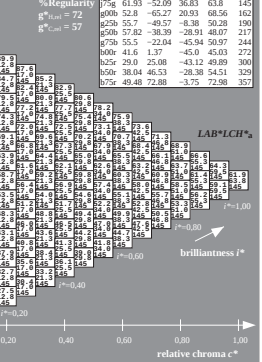
AB data	
$t_{i,j}$	$h^*_{ab,j}$
63	25
7	42
17	59
66	76
9	92

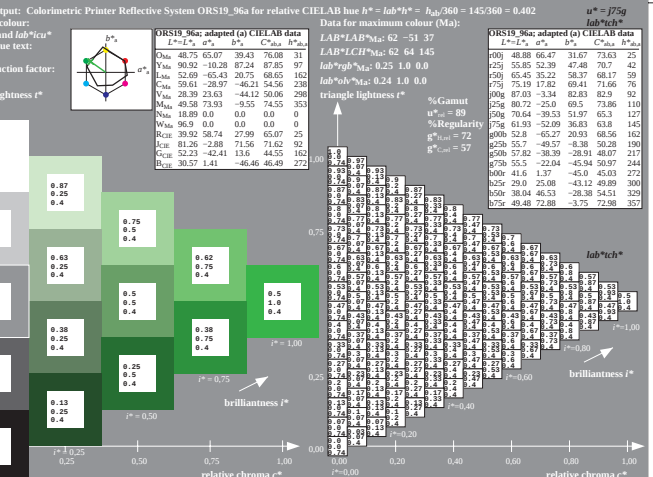
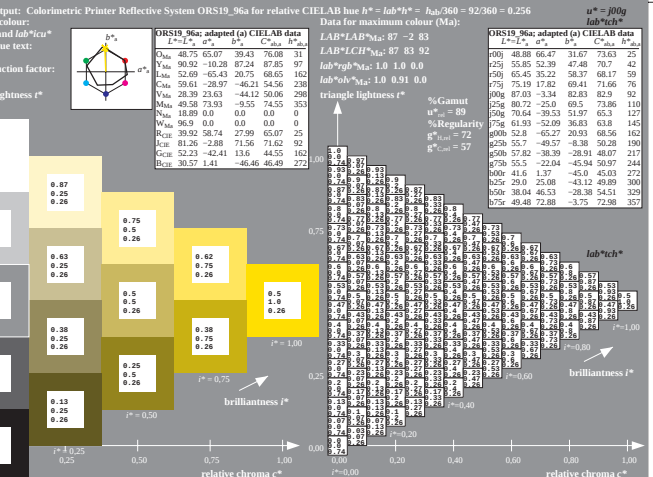
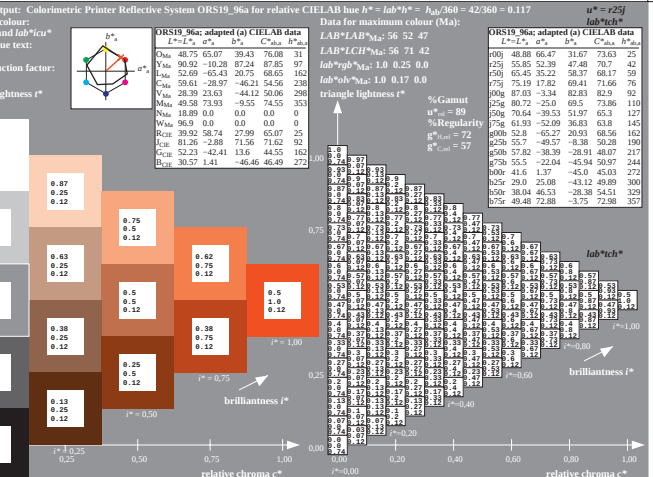
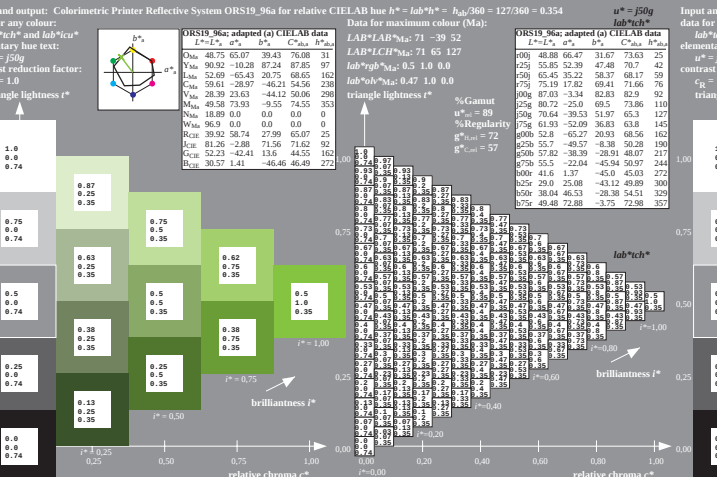
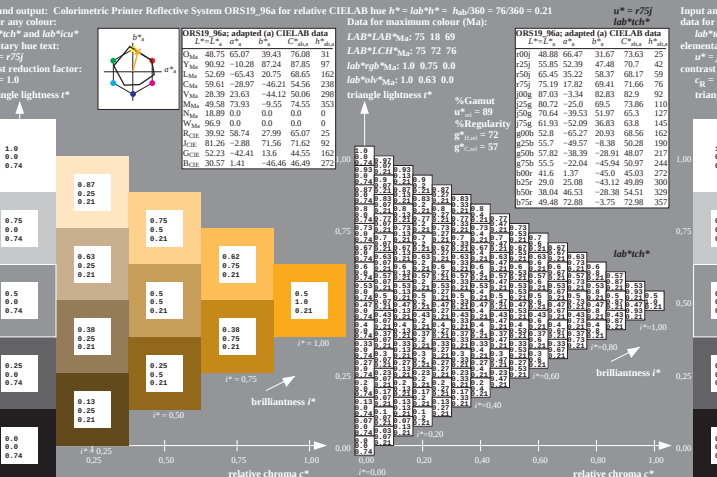
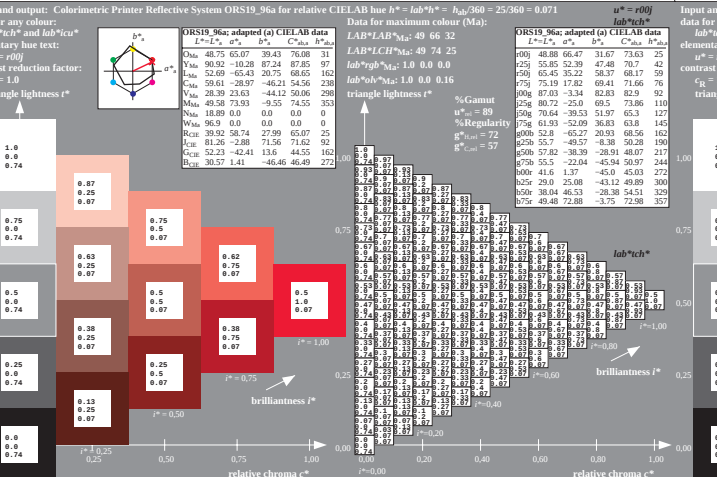
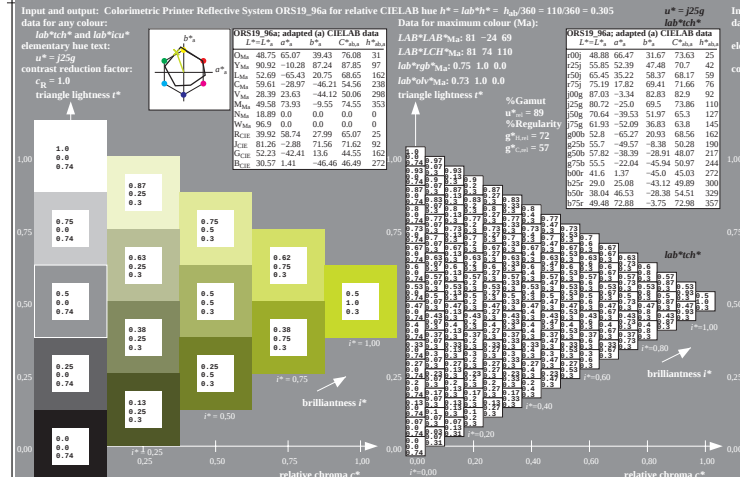
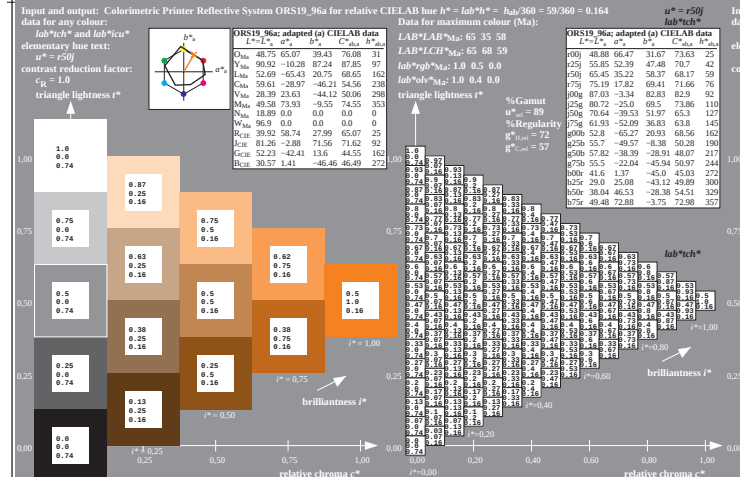
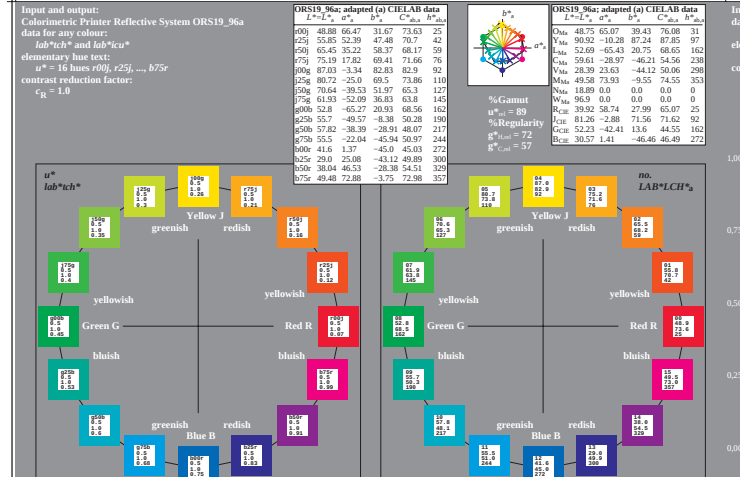


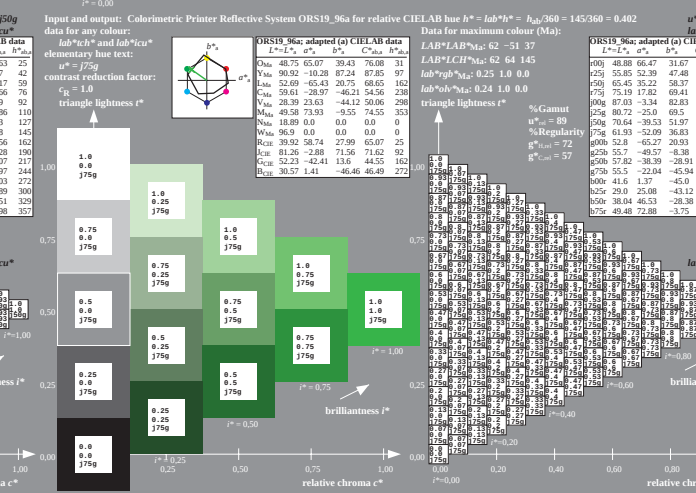
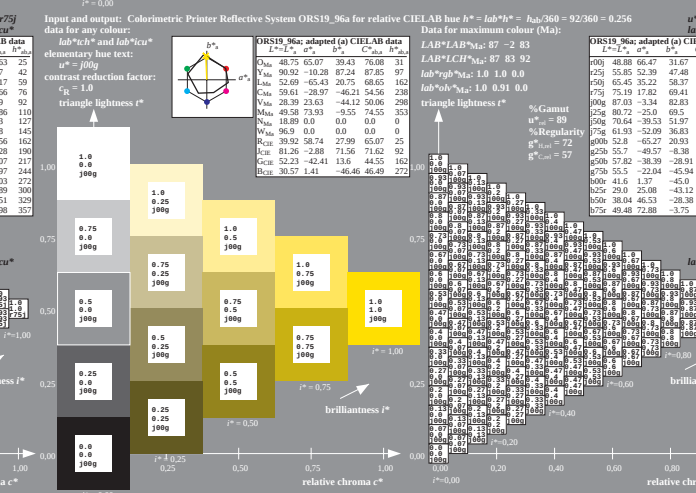
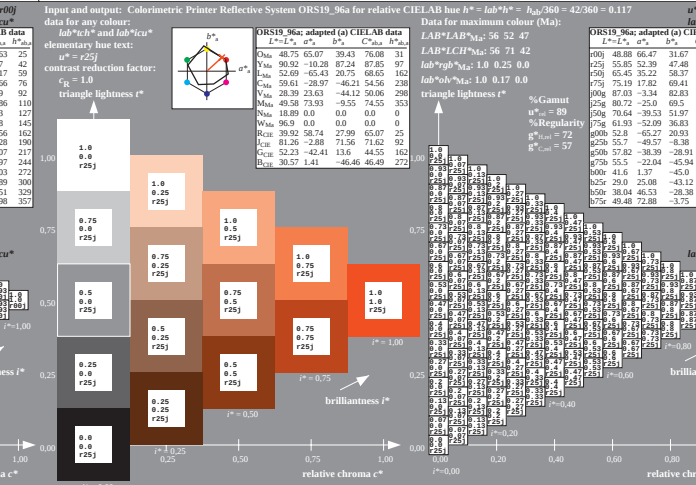
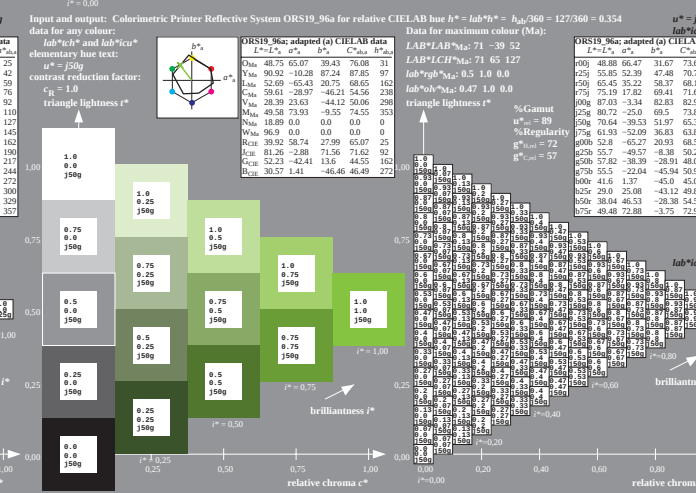
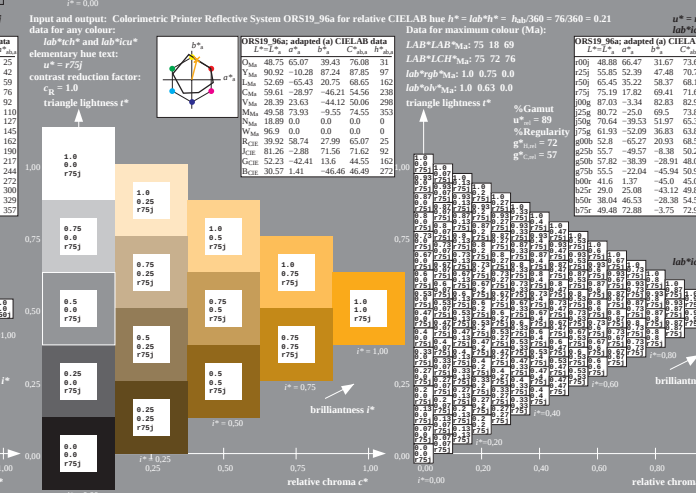
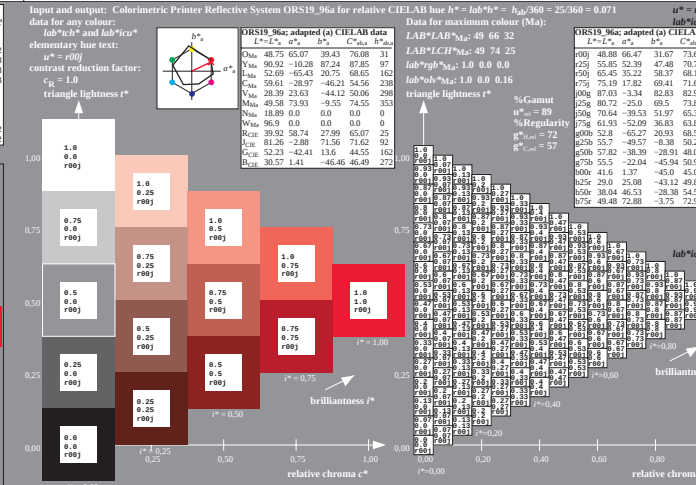
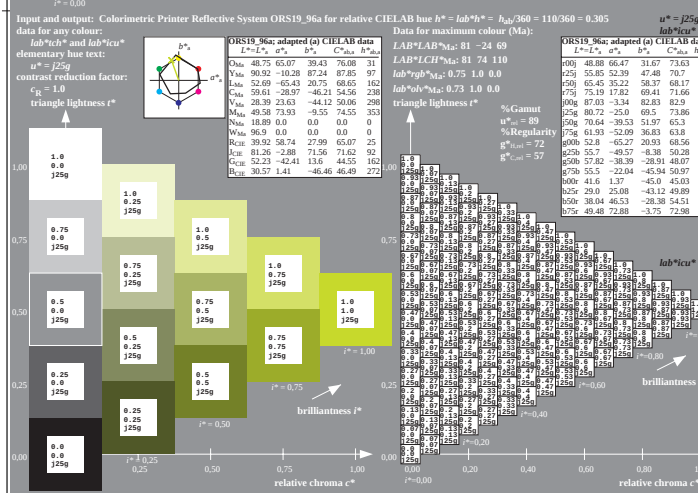
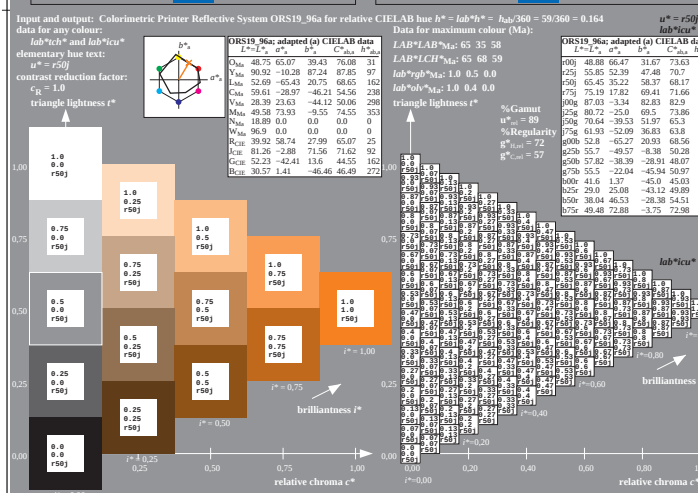
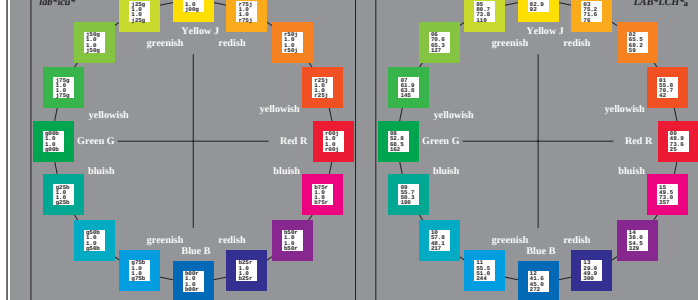
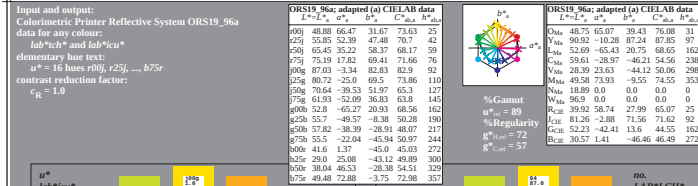
AB data	
$i_{A,B}$	$h^*_{AB,i}$
63	25
7	42
17	59
66	76
9	92



AB data	
$h_{a,b}$	$h^*_{ab,b}$
63	25
7	42
17	59
66	76
9	92







$r_{360} = 0.117$ $u^* = r_{25j}$
LAB*LAB*
ORS19_96a; adapted (a) CIELAB data

	$L^* = L^*_{25}$	a^*_{25}	b^*_{25}	C^*_{25j}	h^*_{25j}
r00j	48.88	66.47	31.67	73.63	25
r25j	55.85	52.39	47.48	70.7	42
r50j	65.45	35.22	58.37	68.17	59
r75j	75.19	17.82	69.41	71.66	76
j00g	87.03	-3.34	82.83	82.9	92



$z_{360} = 0.256$ $u^* = j00g$
LAB* LAB*

	$L^*_{a,b}$	$a^*_{a,b}$	$b^*_{a,b}$	$C^*_{a,b}$	$h^*_{a,b}$
r00j	48.88	66.47	31.67	73.63	25
r25j	55.85	52.39	47.48	70.7	42
r50j	65.45	35.22	58.37	68.17	59
r75j	75.19	13.82	69.41	71.66	76
j00g	87.03	-3.34	82.83	82.9	92



35,360 = 0.402 $u^* = j75g$
LAB*LAB*

	$L^* = L^*_{a,b}$	$a^* = a^*_{a,b}$	$b^* = b^*_{a,b}$	$C^*_{a,b}$	$h^*_{a,b}$
r00j	48.88	66.47	31.67	73.63	25
r25j	55.85	52.39	47.48	70.7	42
r50j	65.45	35.22	58.37	68.17	59
r75j	75.19	17.82	69.41	71.66	76
j00g	87.03	-3.34	82.83	82.9	92



Input and output: Colorimetric Printer Reflective System ORS19_96a for relative CIELAB hue $h^* = \text{lab}^*h^* = h_{96}^*/360 = 110/360 = 0.305$

Data for any colour:

lab^*a^* and lab^*b^*
 elementary hue text:
 $u^* = j25q$
 contrast reduction factor:
 $c_g = 1.0$
 triangle lightness a^*

Diagram: A color triangle with vertices labeled a^* , b^* , and c^* . Inside the triangle, there are smaller triangles and lines representing color relationships.

Table: ODS19_96a CIELAB data

	L^*	a^*	b^*	C_{96}^*	h_{96}^*
D_{96}	48.75	65.16	40.76	76.86	32
Y_{96}	90.02	-10.77	89.36	90.01	97
x_{96}	52.69	-65.39	22.15	69.05	161
y_{96}	59.61	-29.03	-44.68	53.33	237
z_{96}	28.39	24.0	-0.17	49.84	296
M_{96}	49.88	74.01	-8.21	74.47	34
N_{96}	18.09	0.5	-0.33	84.04	57
W_{96}	96.9	-0.56	2.23	2.3	104
R_{96}	39.92	58.74	27.99	65.67	25
G_{96}	81.26	-2.88	71.56	71.62	92
C_{96}	52.23	-42.41	13.9	45.55	162
h_{96}	30.57	1.41	-46.46	46.49	272

Table: Data for maximum colour (M)

	L^*	a^*	b^*	C_{96}^*	h_{96}^*
LAB^*LAB^*M	81	-24	69		
LAB^*LAB^*M	81	74	110		
$\text{lab}^*a^*b^*M$	0.75	1.0	0.0		
$\text{lab}^*a^*b^*M$	0.75	1.0	0.0		
triangle lightness a^*					

Table: ODS19_96a adapted to CIELAB data

	L^*	a^*	b^*	C_{96}^*	h_{96}^*
400	68.68	66.47	31.67	73.63	25
425	55.85	52.39	47.88	70.7	42
450	60.45	53.22	58.37	68.67	59
475	75.19	17.82	69.41	71.16	76
500	87.03	-3.84	82.83	82.9	92
525	80.72	-25.0	69.5	73.86	110
550	70.64	-39.53	51.97	65.3	127
575	61.93	-52.09	36.83	63.83	145
600	52.8	-65.27	20.93	65.86	162
625	57	-89.57	8.38	50.28	180
650	57.82	-39.39	-29.81	40.07	217
675	55.5	-22.64	-45.94	50.97	244
700	41.6	1.97	-45.03	42.72	272
725	29.0	25.08	-43.12	49.89	300
750	30.04	46.53	-39.39	54.51	328
775	49.48	72.88	-3.75	72.98	357

Table: $\%Gamut$

$u^* = j25q$	$\%Gamut$
0	88
1	88
2	88
3	88
4	88
5	88
6	88
7	88
8	88
9	88
10	88
11	88
12	88
13	88
14	88
15	88
16	88
17	88
18	88
19	88
20	88
21	88
22	88
23	88
24	88
25	88
26	88
27	88
28	88
29	88
30	88
31	88
32	88
33	88
34	88
35	88
36	88
37	88
38	88
39	88
40	88
41	88
42	88
43	88
44	88
45	88
46	88
47	88
48	88
49	88
50	88
51	88
52	

Colorimetric Printer Release System ORSYS_96a for relative CIELAB hue $h^* = \text{lab}^*h^* = h_{ab}/360 = 127/360 = 0.354$

colour: lab^*a^* lab^*b^*

text: lab^*a^* lab^*b^*

brilliance factor: lab^*a^* lab^*b^*

brilliance h^*

0.67
0.61
0.76

0.62
0.76
0.5

0.37
0.5
0.25

0.23
0.25
0.0

0.12
0.25
0.0

$r^* = 0.25$ $r^* = 0.50$ $r^* = 0.75$ $r^* = 1.00$

relative chroma a^*

ORSYS_96a: CIELAB data

	L^*	a^*	b^*	C_{96}^*	h_{96}^*
D ₅₀	48.75	65.16	48.76	76.86	32
Y ₅₀	90.92	-10.77	89.36	90.01	97
X ₅₀	52.69	-65.39	22.15	69.05	161
Y ₅₀	59.61	-29.03	-44.68	53.3	237
X ₅₀	28.39	24.0	-43.17	48.4	269
M ₅₀	49.58	74.01	-8.21	74.47	354
N ₅₀	18.89	0.5	0.77	0.82	57
W ₅₀	96.9	-0.56	2.23	2.3	104
R ₅₀	39.92	58.74	27.99	65.07	25
E ₅₀	81.26	-2.88	71.56	71.62	92
C ₅₀	52.23	-42.41	13.6	44.55	162
C ₅₀	30.57	14.41	-46.46	46.49	272

LAB*LAB* Δ : 71 -39 52

LAB* Δ CPH* Δ : 71 65 127

lab*lab* Δ : 95 1.0 0.0

lab*lab* Δ : 0.47 1.0 0.0

triangle lightness L^*

%Gamut
 $a^* = 19$
 $b^* = 18$
 $g^*_{lab} = 72$
 $g^*_{cm} = 57$

ORSYS_96a: L^* - a^* - b^* data

	L^*	a^*	b^*
100	48.88	66.66	48.88
25	51.85	52.85	51.85
50	65.45	35.45	65.45
75	75.19	17.19	75.19
100	87.03	-3.03	87.03
25	80.72	-2.5	80.72
50	70.64	-39.64	70.64
75	61.93	-52.93	61.93
100	52.68	-65.68	52.68
25	55.7	-65.7	55.7
50	57.82	-38	57.82
75	55.5	-22.5	55.5
100	41.6	1.37	41.6
25	29.0	25.5	29.0
50	38.04	49.04	38.04
75	49.48	72.48	49.48

$r^* = 0.00$ $r^* = 0.20$ $r^* = 0.40$ $r^* = 0.60$ $r^* = 0.80$ $r^* = 1.00$

relative chroma a^*

$r^* = 0.00$ $r^* = 0.20$ $r^* = 0.40$ $r^* = 0.60$ $r^* = 0.80$ $r^* = 1.00$

relative chroma a^*

brilliance h^*

[illegible]

data for relative CIELAB hue $h^* = lab^*h^* = l_{ab}/360 = 145/360 = 0.402$

Data for maximum colour (Ma):

$lab^*LAB^*a^*b^*$ 62 -51 37

$LAB^*LAB^*a^*b^*$ 82 64 145

$lab^*h^*h^* = 0.25 : 1.0 : 0.6$

$lab^*h^*h^* = 0.24 : 1.0 : 0.6$

triangle lightness l^*

%Gamut
 $u^* = 19$
%Regularity
 $g^*m = 72$
 $g^*m = 57$

ORISE $l^*a^*b^*$ adapted (C) CIELAB data

l^*	a^*	b^*	l^*	a^*	b^*
100	48.88	66.47	31.67	71.63	25
95	55.85	52.39	47.48	78.7	42
90	65.45	35.22	58.37	60.17	59
85	75.19	17.82	69.41	76.66	76
80	87.61	3.34	82.83	82.9	92
75	82.07	-0.55	95.5	78.86	108
70	80.61	-2.50	95.5	78.86	108
65	80.61	-2.50	95.5	78.86	108
60	80.61	-2.50	95.5	78.86	108
55	80.61	-2.50	95.5	78.86	108
50	80.61	-2.50	95.5	78.86	108
45	80.61	-2.50	95.5	78.86	108
40	80.61	-2.50	95.5	78.86	108
35	80.61	-2.50	95.5	78.86	108
30	80.61	-2.50	95.5	78.86	108
25	80.61	-2.50	95.5	78.86	108
20	80.61	-2.50	95.5	78.86	108
15	80.61	-2.50	95.5	78.86	108
10	80.61	-2.50	95.5	78.86	108
5	80.61	-2.50	95.5	78.86	108
0	80.61	-2.50	95.5	78.86	108

brilliance l^*

chroma a^*

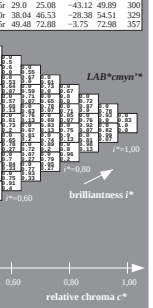
relative chroma a^*

brilliance l^*

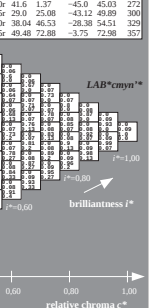
chroma a^*

relative chroma a^*

S19_96a; adapted (a)		CIELAB data	
L^*_{10}	a^*_{10}	b^*_{10}	C^*_{10}
48.88	66.47	31.67	73.63
55.85	52.39	47.48	70.7
65.45	35.22	58.37	68.17
71.19	17.82	69.41	71.56
87.03	-3.34	82.83	82.9
80.72	-25.0	69.5	93.86
70.64	-39.53	51.97	65.3
61.93	-52.09	36.83	63.8
52.8	-65.27	20.93	68.56
55.7	-49.57	-8.38	50.28
57.82	-38.29	-28.91	48.07
55.5	-22.04	-45.94	50.97
41.6	1.37	-45.0	45.03



$\sigma = 0.256$		$\sigma = j00g$ $LAB^{*}cmyn^{*}n$		
$S19_96a$;	adapted (a)	CIELab data		
L^{*}_{19}	a^{*}_{19}	b^{*}_{19}	b^{*}_{19}	
C^{*}_{19}	h^{*}_{19}	C^{*}_{lab}	h^{*}_{lab}	
48.88	66.47	31.67	73.63	25
55.85	52.39	47.48	70.17	52
65.45	35.22	58.37	68.7	49
75.19	17.82	69.41	71.66	76
87.03	-3.34	82.83	82.9	92
80.72	-25.0	69.5	73.86	110
70.64	-39.53	51.97	65.3	127
61.93	-52.09	36.83	63.8	145
56.8	-65.27	20.93	63.8	166
55.7	-49.57	-8.38	50.28	190
57.82	-38.29	-28.91	48.07	217
55.5	-22.04	-45.94	50.97	244



	L^*_{10}	a^*_{10}	b^*_{10}	C^*_{ab}	h^*_{ab}
48.88	66.47	31.67	73.63	25	
55.85	52.39	47.48	70.7	42	
65.45	35.22	58.37	68.17	59	
75.19	17.82	69.41	61.1	76	
87.03	-3.34	82.83	82.9	92	
80.72	-25.0	69.5	73.86	110	
70.64	-39.53	51.97	65.3	127	
61.93	-52.09	36.83	63.8	145	
52.8	-65.27	20.93	68.56	162	
55.7	-49.57	-8.38	50.28	190	
57.82	-38.39	-28.91	48.07	217	

