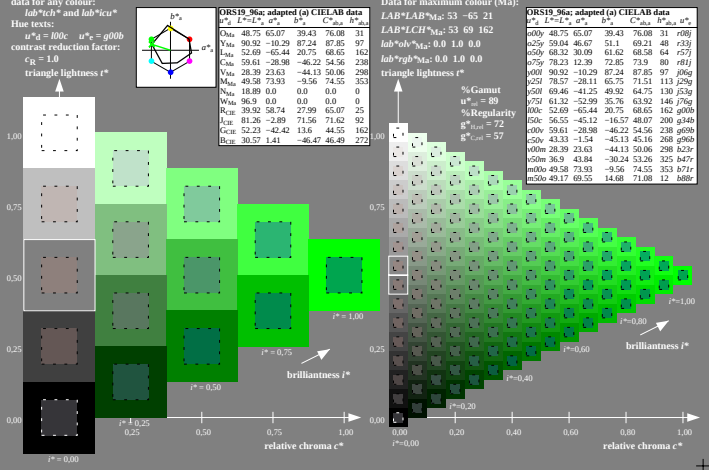
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$ $u^*_d = l00c$

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
triangle lightness t^*



ORS19_96a; adapted (a) CIELAB data

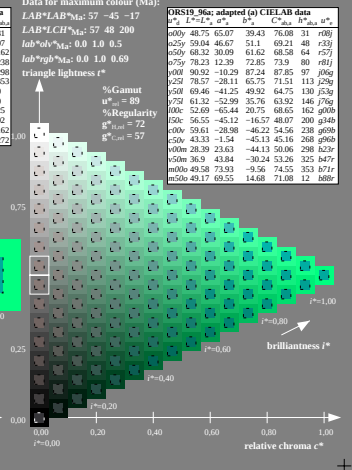
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	r106j
M_{Ma}	49.58	73.93	−9.56	74.55	353	r129j
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	

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
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
c00c	59.61	−28.98	−46.22	54.56	238	g69b
c50y	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.556$ $u^*_d = l50c$

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
triangle lightness t^*



ORS19_96a; adapted (a) CIELAB data

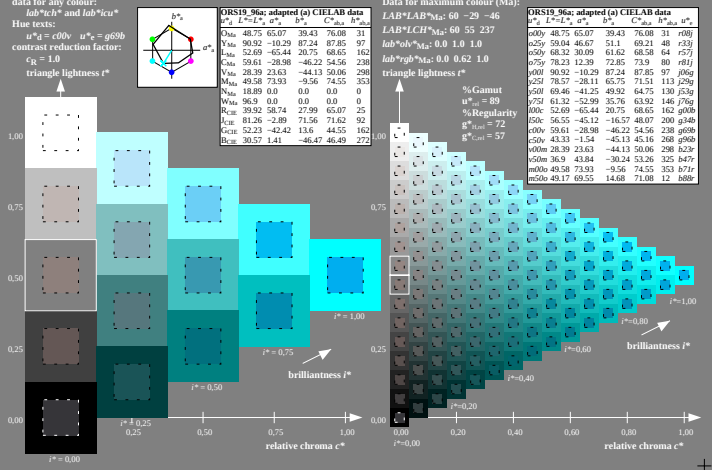
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	r106j
M_{Ma}	49.58	73.93	−9.56	74.55	353	r129j
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	

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
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
c00c	59.61	−28.98	−46.22	54.56	238	g69b
c50y	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.661$ $u^*_d = c00v$

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
triangle lightness t^*



ORS19_96a; adapted (a) CIELAB data

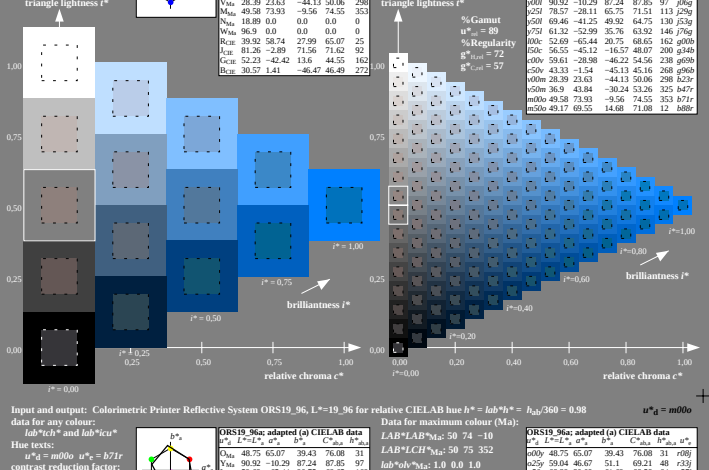
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	r106j
M_{Ma}	49.58	73.93	−9.56	74.55	353	r129j
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	

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
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
c00c	59.61	−28.98	−46.22	54.56	238	g69b
c50y	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.745$ $u^*_d = c50v$

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
triangle lightness t^*



ORS19_96a; adapted (a) CIELAB data

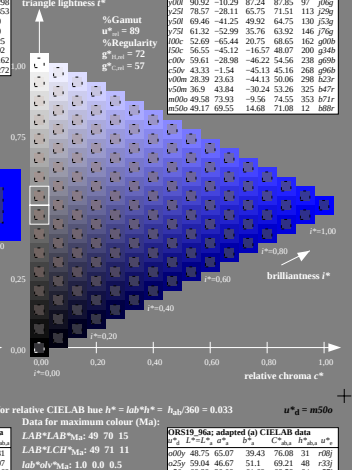
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	r106j
M_{Ma}	49.58	73.93	−9.56	74.55	353	r129j
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	

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
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
c00c	59.61	−28.98	−46.22	54.56	238	g69b
c50y	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.828$ $u^*_d = v00m$

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
triangle lightness t^*



ORS19_96a; adapted (a) CIELAB data

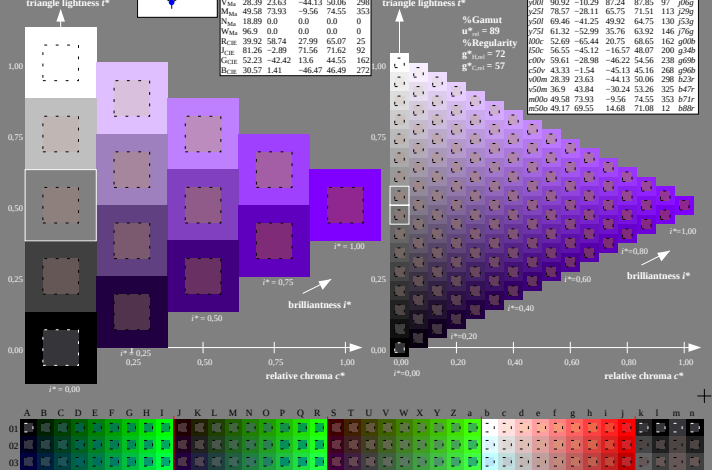
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	r106j
M_{Ma}	49.58	73.93	−9.56	74.55	353	r129j
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	

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
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
c00c	59.61	−28.98	−46.22	54.56	238	g69b
c50y	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.904$ $u^*_d = v50m$

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
triangle lightness t^*



ORS19_96a; adapted (a) CIELAB data

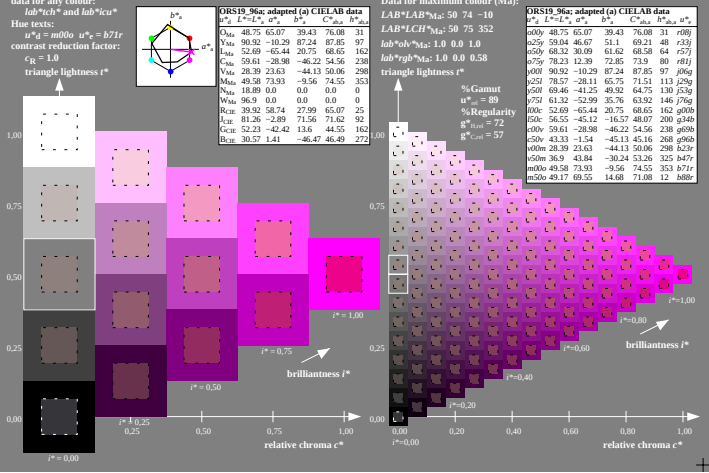
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	r106j
M_{Ma}	49.58	73.93	−9.56	74.55	353	r129j
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	

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
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
c00c	59.61	−28.98	−46.22	54.56	238	g69b
c50y	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.98$ $u^*_d = m00o$

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
triangle lightness t^*



ORS19_96a; adapted (a) CIELAB data

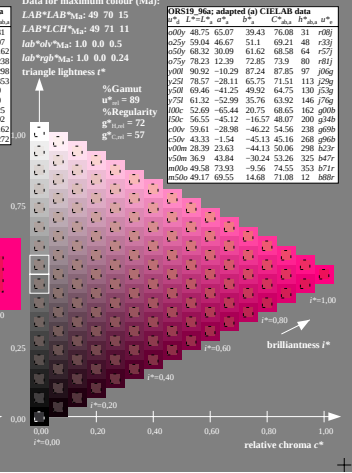
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
O_{Ma}	48.75	65.07	39.43	76.08	31	r08j
Y_{Ma}	90.92	−10.29	87.24	87.85	97	r33j
L_{Ma}	52.69	−65.44	20.75	68.65	162	r57j
C_{Ma}	59.61	−28.98	−46.22	54.56	238	r81j
V_{Ma}	28.39	23.63	−44.13	50.06	298	r106j
M_{Ma}	49.58	73.93	−9.56	74.55	353	r129j
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	

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
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
c00c	59.61	−28.98	−46.22	54.56	238	g69b
c50y	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.033$ $u^*_d = m50o$

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^*

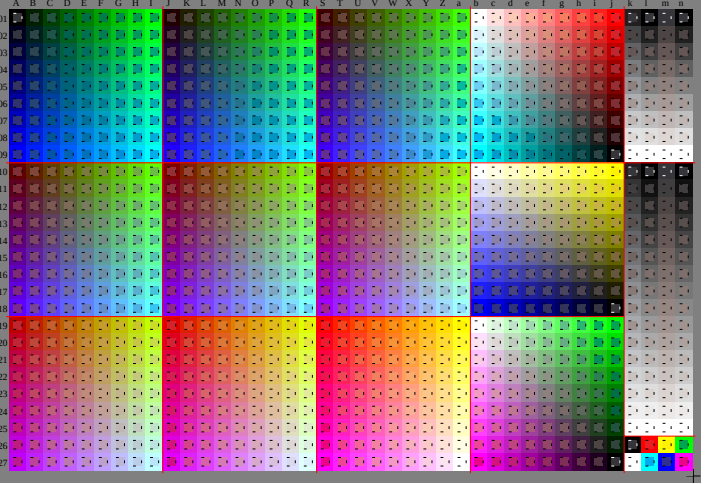
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 49 70 15
$LAB^*LCH^*_{Ma}$: 49 71 11
$lab^*olv^*_{Ma}$: 1.0 0.0 0.5
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.24
triangle lightness t^*



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
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	r106j
M_{Ma}	49.58	73.93	−9.56	74.55	353	r129j
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	

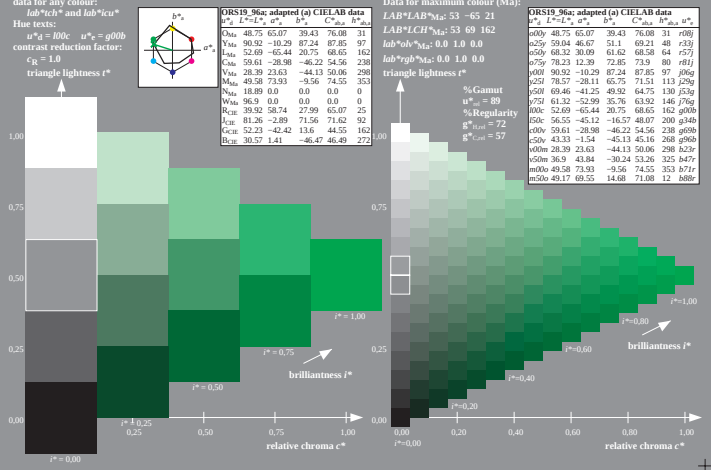
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_d
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00r	90.92	−10.29	87.24	87.85	97	j06g
y25r	78.57	−28.11	65.75	71.51	113	j29g
y50r	69.46	−41.25	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
c00c	59.61	−28.98	−46.22	54.56	238	g69b
c50y	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$ $u^*_d = l00c$

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



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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	

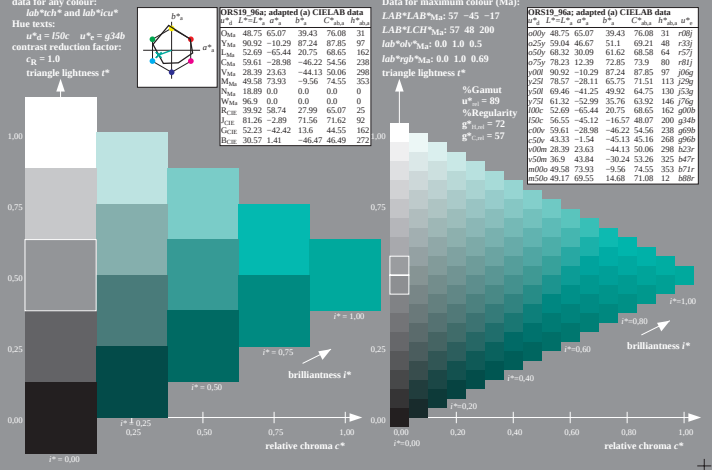
ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.556$ $u^*_d = l50c$

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



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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	

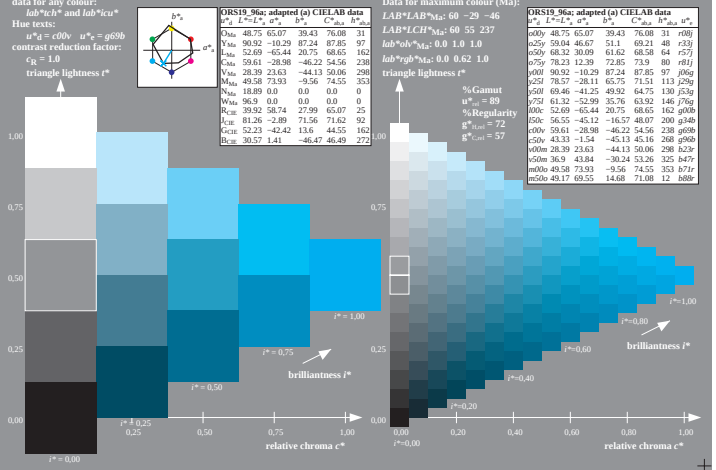
ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.661$ $u^*_d = c00v$

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



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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	

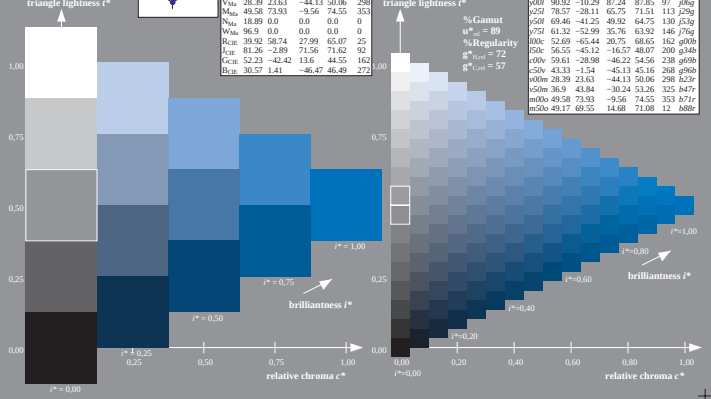
ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.745$ $u^*_d = c50v$

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



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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	

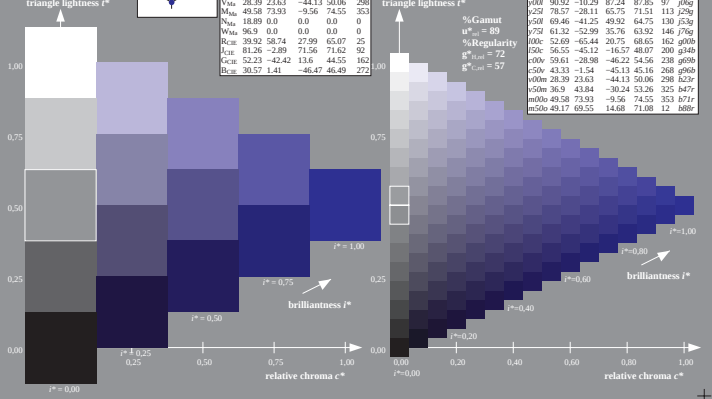
ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.828$ $u^*_d = v00m$

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



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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	

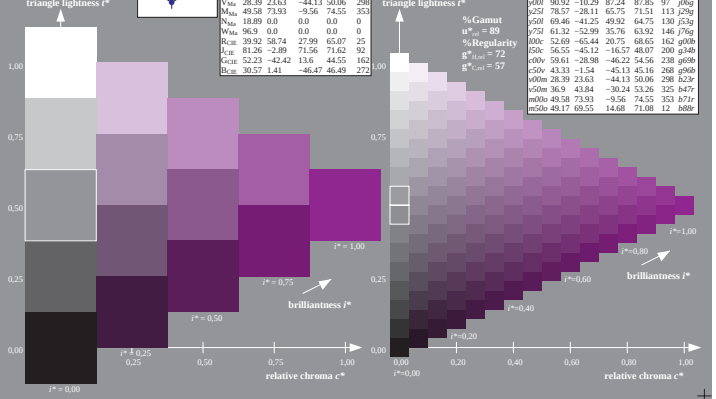
ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.904$ $u^*_d = v50m$

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



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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	

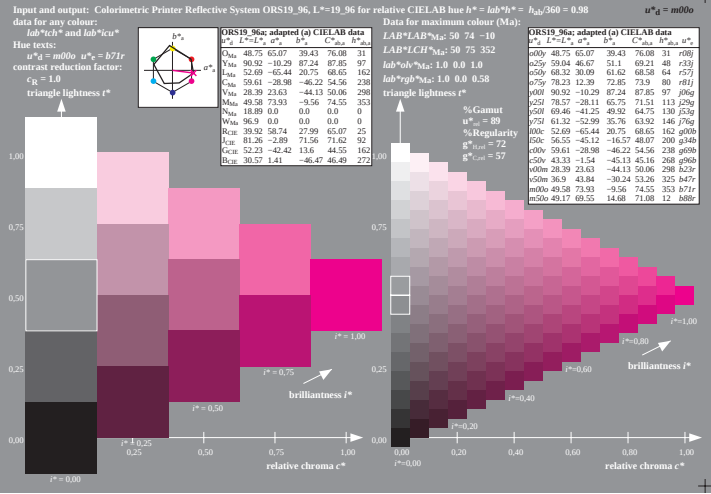
ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.98$ $u^*_d = m00o$

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



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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	

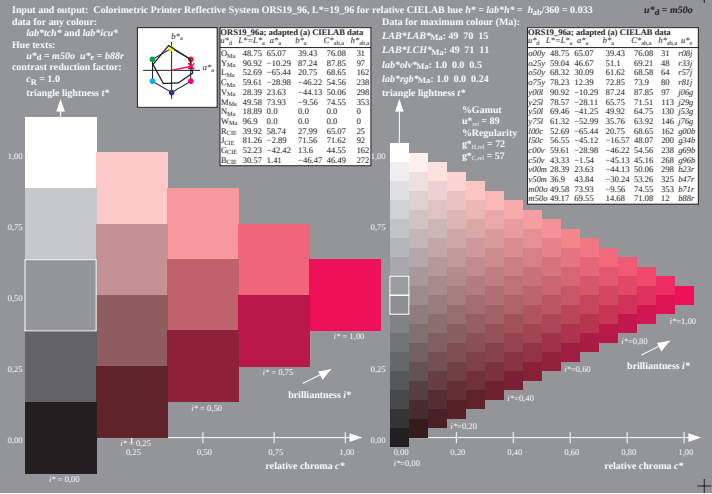
ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.033$ $u^*_d = m50o$

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

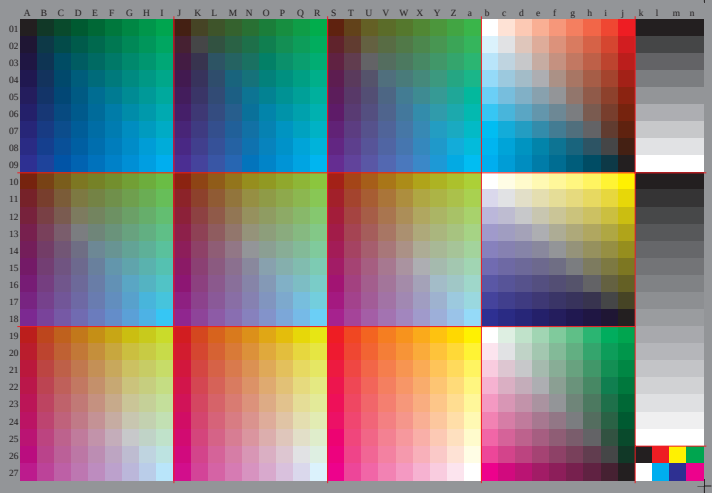


ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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	

ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_{CIE}
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*

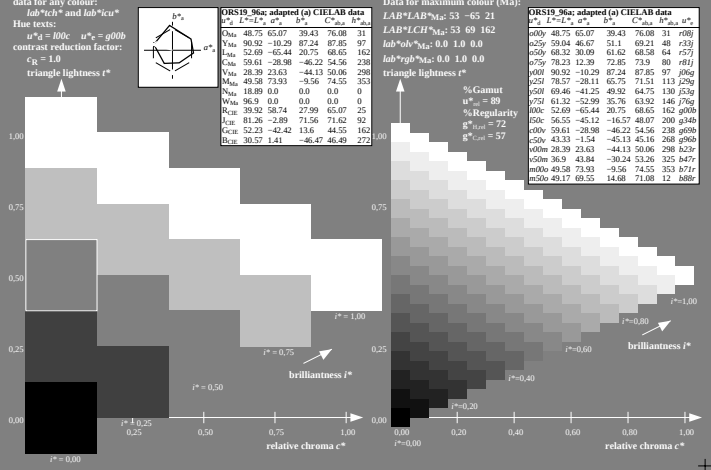


Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$ $u^*_d = l00c$

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

%Gamut $u^*_{gm} = 89$
%Regularity $g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$
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
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

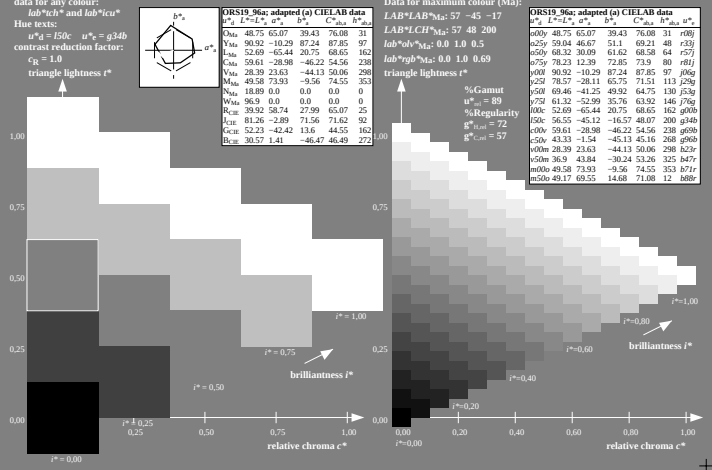
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_n
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00l	90.92	−10.29	87.24	87.85	97	j06g
y25l	78.57	−28.11	65.75	71.51	113	j29g
y50l	69.46	−41.25	49.92	64.75	130	j53g
y75l	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.556$ $u^*_d = l50c$

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

%Gamut $u^*_{gm} = 89$
%Regularity $g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$
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
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

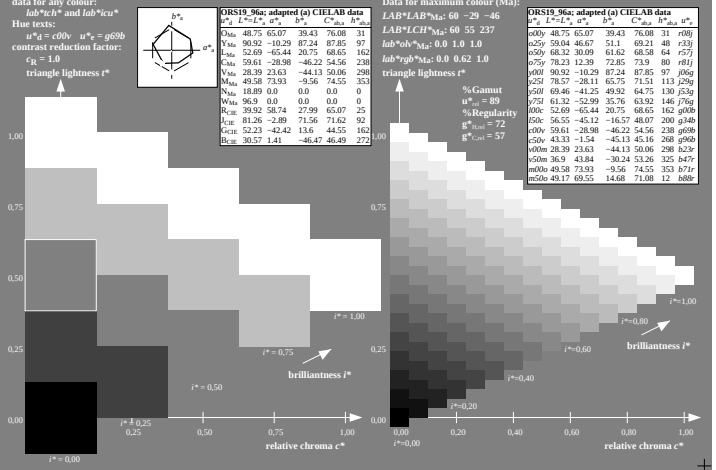
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_n
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00l	90.92	−10.29	87.24	87.85	97	j06g
y25l	78.57	−28.11	65.75	71.51	113	j29g
y50l	69.46	−41.25	49.92	64.75	130	j53g
y75l	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.661$ $u^*_d = c00v$

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

%Gamut $u^*_{gm} = 89$
%Regularity $g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$
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
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

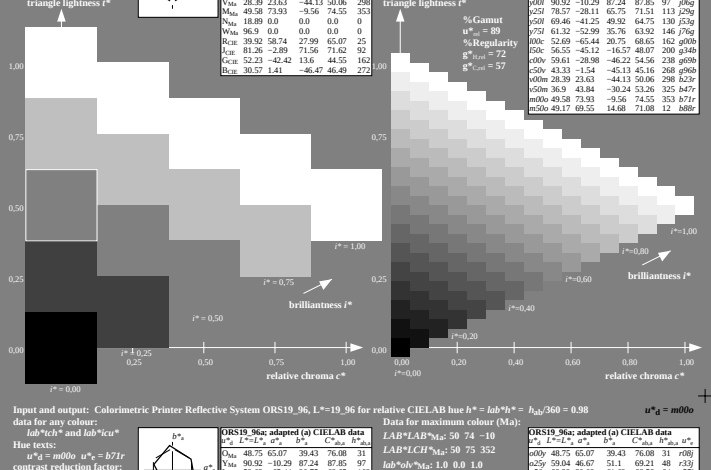
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_n
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00l	90.92	−10.29	87.24	87.85	97	j06g
y25l	78.57	−28.11	65.75	71.51	113	j29g
y50l	69.46	−41.25	49.92	64.75	130	j53g
y75l	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.745$ $u^*_d = c50v$

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

%Gamut $u^*_{gm} = 89$
%Regularity $g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$
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
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

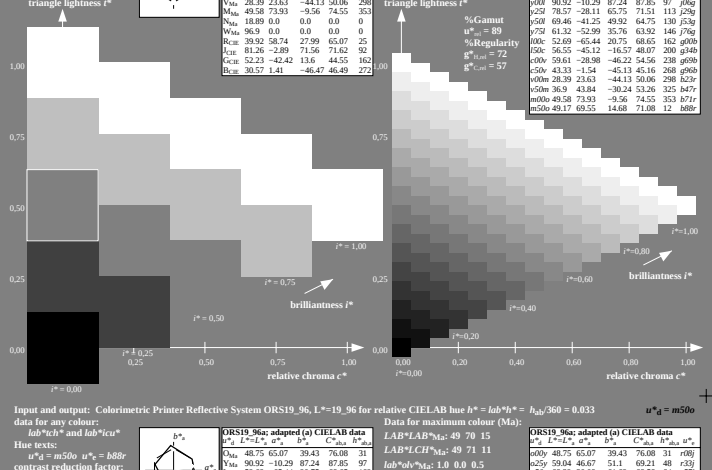
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_n
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00l	90.92	−10.29	87.24	87.85	97	j06g
y25l	78.57	−28.11	65.75	71.51	113	j29g
y50l	69.46	−41.25	49.92	64.75	130	j53g
y75l	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.828$ $u^*_d = v00m$

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

%Gamut $u^*_{gm} = 89$
%Regularity $g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$
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
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

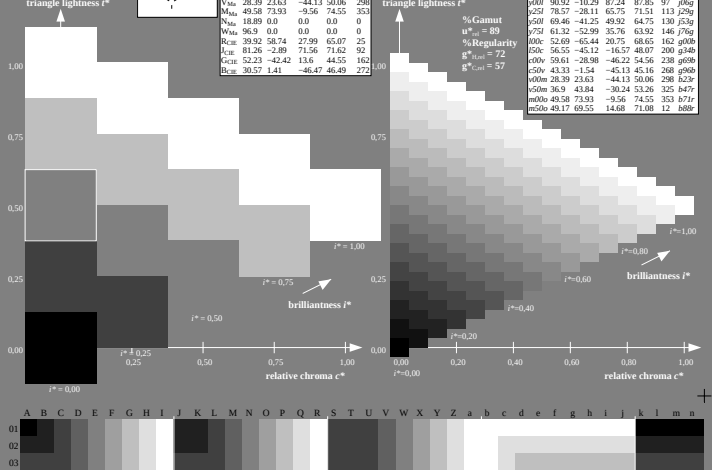
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_n
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00l	90.92	−10.29	87.24	87.85	97	j06g
y25l	78.57	−28.11	65.75	71.51	113	j29g
y50l	69.46	−41.25	49.92	64.75	130	j53g
y75l	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.904$ $u^*_d = v50m$

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

%Gamut $u^*_{gm} = 89$
%Regularity $g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$
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
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

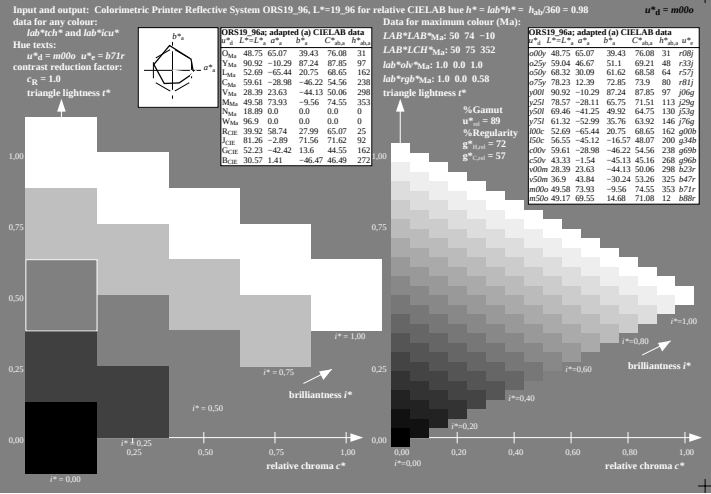
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_n
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00l	90.92	−10.29	87.24	87.85	97	j06g
y25l	78.57	−28.11	65.75	71.51	113	j29g
y50l	69.46	−41.25	49.92	64.75	130	j53g
y75l	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.98$ $u^*_d = m00o$

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

%Gamut $u^*_{gm} = 89$
%Regularity $g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$
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
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

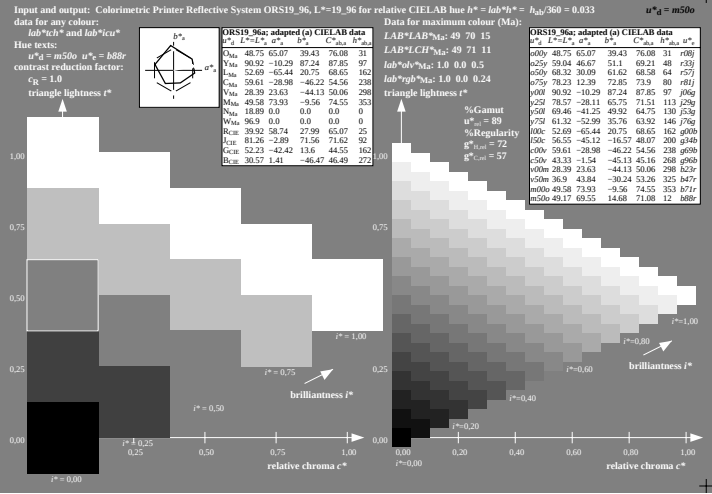
	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_n
o00y	48.75	65.07	39.43	76.08	31	r08j
o25y	59.04	46.67	51.1	69.21	48	r33j
o50y	68.32	30.09	61.62	68.58	64	r57j
o75y	78.23	12.39	72.85	73.9	80	r81j
y00l	90.92	−10.29	87.24	87.85	97	j06g
y25l	78.57	−28.11	65.75	71.51	113	j29g
y50l	69.46	−41.25	49.92	64.75	130	j53g
y75l	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.033$ $u^*_d = m50o$

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^*

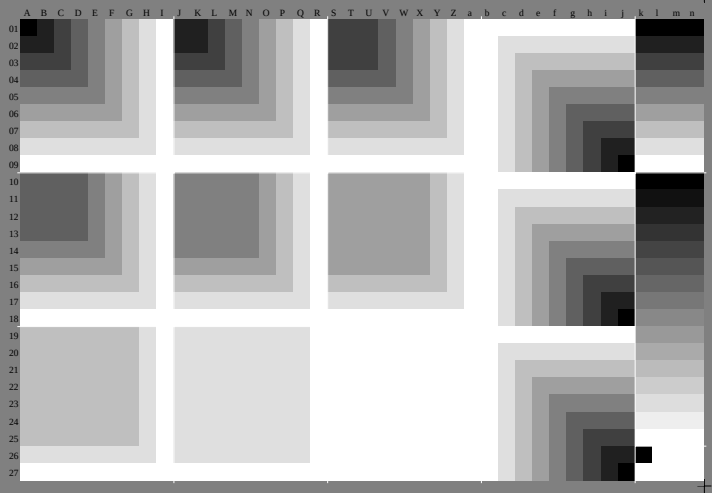
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 49 70 15
$LAB^*LCH^*_{Ma}$: 49 71 11
$lab^*olv^*_{Ma}$: 1.0 0.0 0.5
$lab^*rgb^*_{Ma}$: 1.0 0.0 0.24

%Gamut $u^*_{gm} = 89$
%Regularity $g^*_{H,rel} = 72$
$g^*_{C,rel} = 57$



ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$
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
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

	L^*_{CIE}	a^*_{CIE}	b^*_{CIE}	$C^*_{ab,n}$	$h^*_{ab,n}$	u^*_n
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
y00l	90.92	−10.29	87.24	87.85	97	j06g
y25l	78.57	−28.11	65.75	71.51	113	j29g
y50l	69.46	−41.25	49.92	64.75	130	j53g
y75l	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