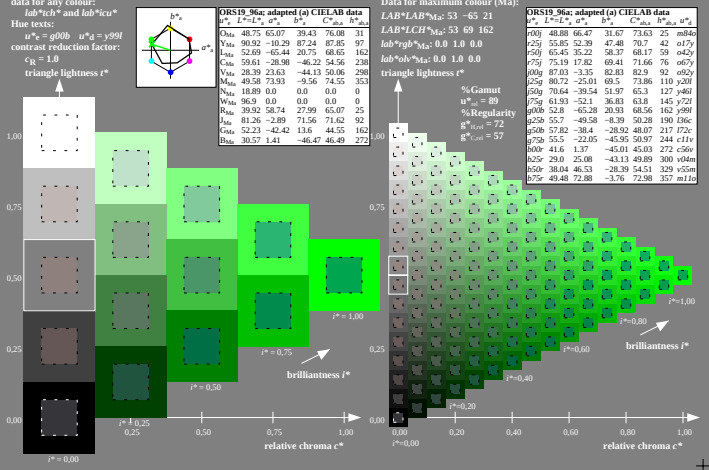
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$ $u^*_\varepsilon = g00b$

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^*

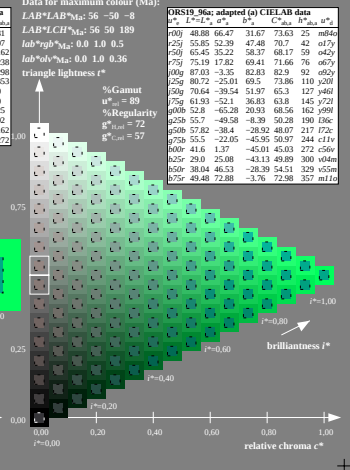
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 53 −65 21
$LAB^*LCH^*_{Ma}$: 53 69 162
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.0
triangle lightness t^*



Input and output: Colorimetric Printer Reflective System ORS19_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^*

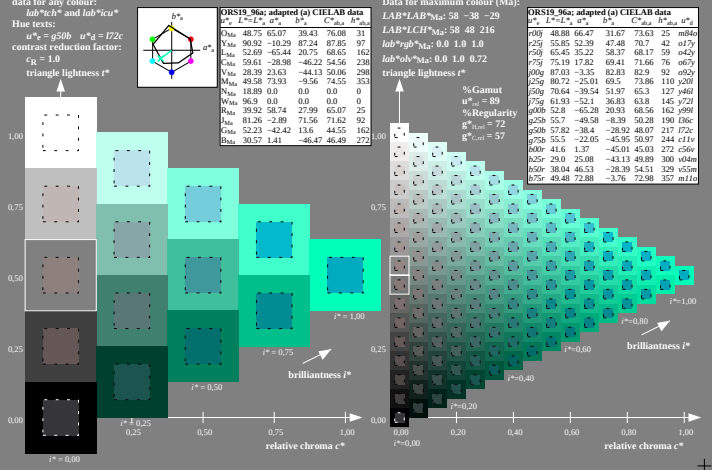
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 56 −50 −8
$LAB^*LCH^*_{Ma}$: 56 50 189
$lab^*rgb^*_{Ma}$: 0.0 1.0 0.5
$lab^*olv^*_{Ma}$: 0.0 1.0 0.36
triangle lightness t^*



Input and output: Colorimetric Printer Reflective System ORS19_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^*

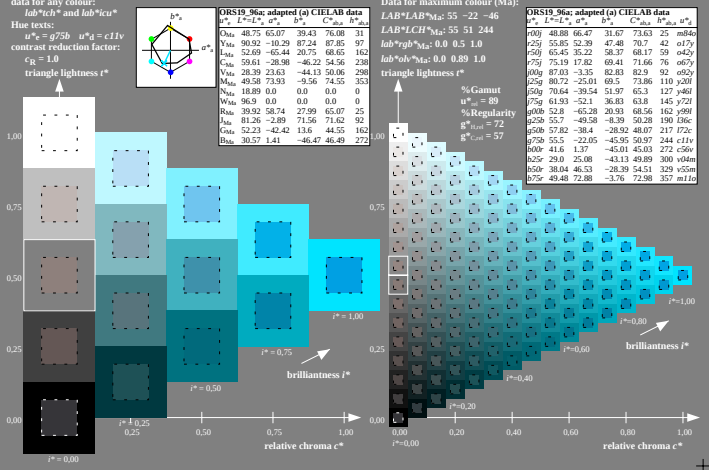
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 58 −38 −29
$LAB^*LCH^*_{Ma}$: 58 48 216
$lab^*rgb^*_{Ma}$: 0.0 1.0 1.0
$lab^*olv^*_{Ma}$: 0.0 1.0 0.72
triangle lightness t^*



Input and output: Colorimetric Printer Reflective System ORS19_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^*

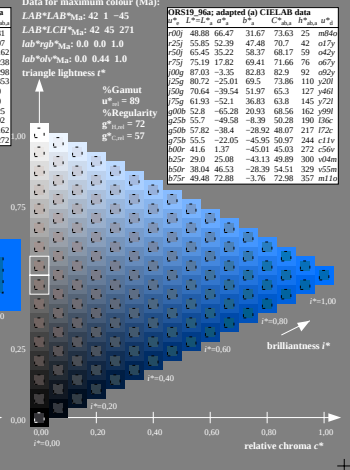
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 55 −22 −46
$LAB^*LCH^*_{Ma}$: 55 51 244
$lab^*rgb^*_{Ma}$: 0.0 0.5 1.0
$lab^*olv^*_{Ma}$: 0.0 0.89 1.0
triangle lightness t^*



Input and output: Colorimetric Printer Reflective System ORS19_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^*

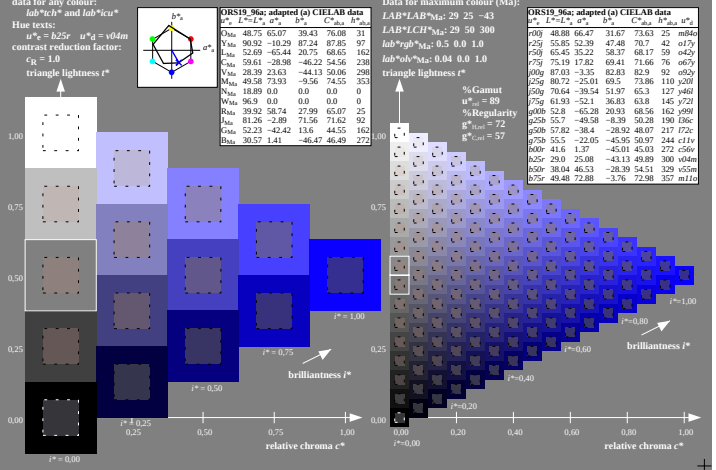
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 42 1 −45
$LAB^*LCH^*_{Ma}$: 42 45 271
$lab^*rgb^*_{Ma}$: 0.0 0.0 1.0
$lab^*olv^*_{Ma}$: 0.0 0.44 1.0
triangle lightness t^*



Input and output: Colorimetric Printer Reflective System ORS19_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^*

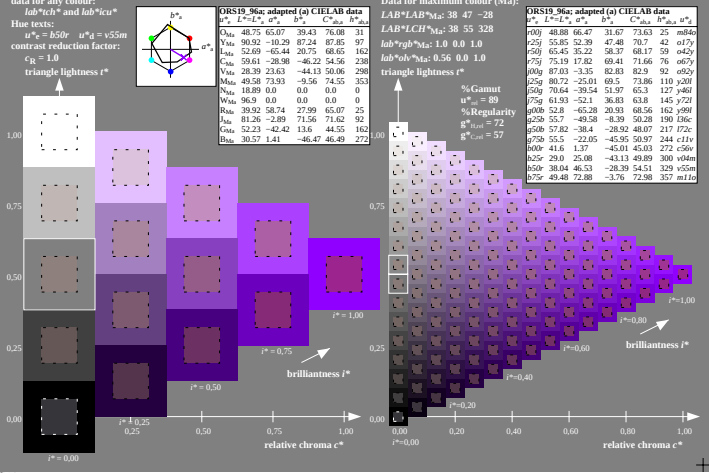
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 29 25 −43
$LAB^*LCH^*_{Ma}$: 29 50 300
$lab^*rgb^*_{Ma}$: 0.5 0.0 1.0
$lab^*olv^*_{Ma}$: 0.04 0.0 1.0
triangle lightness t^*



Input and output: Colorimetric Printer Reflective System ORS19_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^*

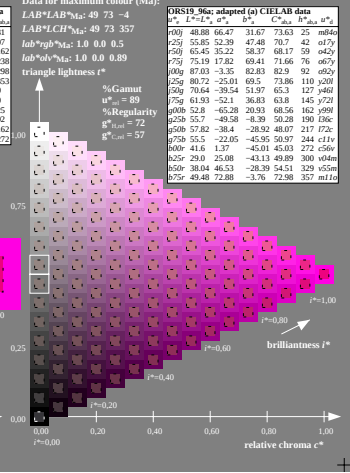
Data for maximum colour (Ma):
$LAB^*LAB^*_{Ma}$: 38 47 −28
$LAB^*LCH^*_{Ma}$: 38 55 328
$lab^*rgb^*_{Ma}$: 1.0 0.0 1.0
$lab^*olv^*_{Ma}$: 0.56 0.0 1.0
triangle lightness t^*

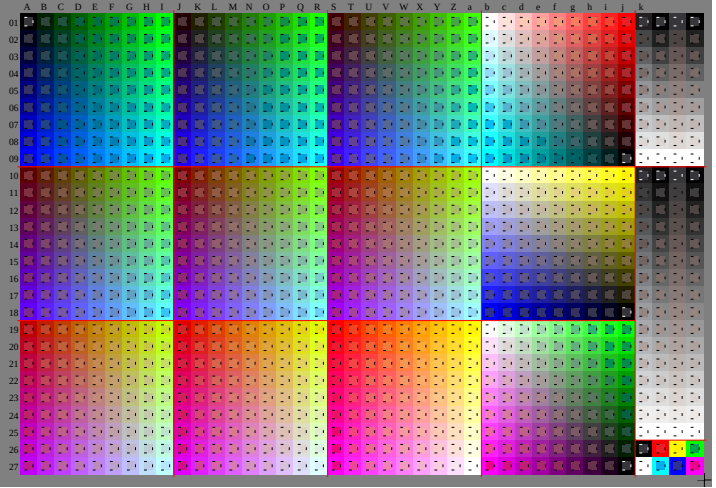


Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.992$ $u^*_\varepsilon = b75r$

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^*

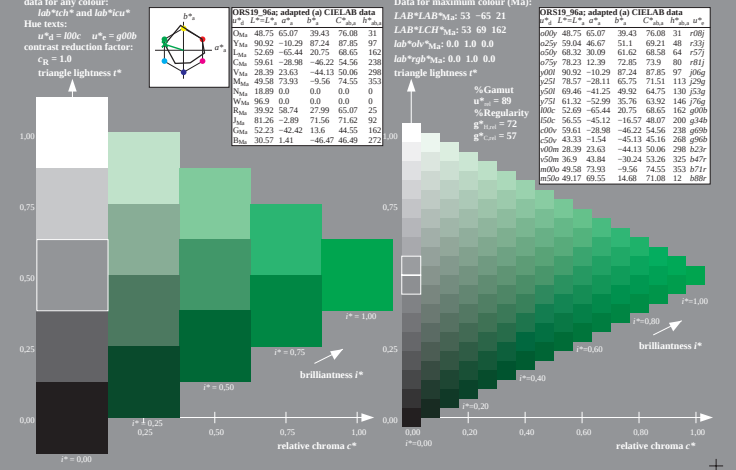




Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$ $u^*_d = g00b$

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



ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	
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		*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_{Ma}	39.92	58.74	27.99	65.07	25		
J_{Ma}	81.26	−2.89	71.56	71.62	92		
G_{Ma}	52.23	−42.42	13.6	44.55	162		
B_{Ma}	30.57	1.41	−46.47	46.49	272		

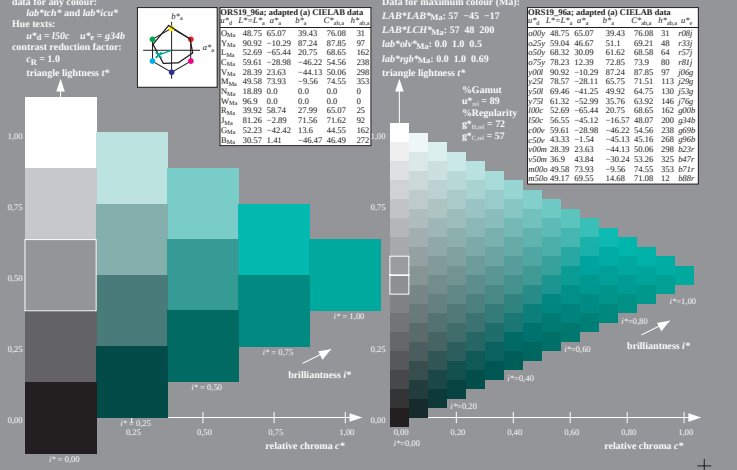
ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	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 ORS19_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



ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	
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		*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_{Ma}	39.92	58.74	27.99	65.07	25		
J_{Ma}	81.26	−2.89	71.56	71.62	92		
G_{Ma}	52.23	−42.42	13.6	44.55	162		
B_{Ma}	30.57	1.41	−46.47	46.49	272		

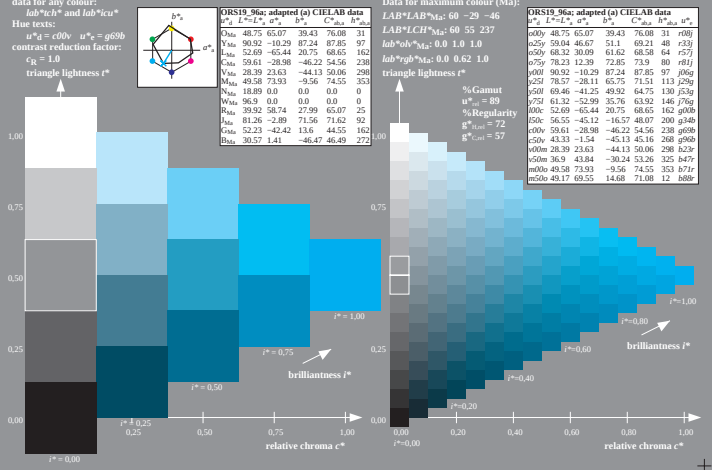
ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	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 ORS19_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



ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	
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		*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_{Ma}	39.92	58.74	27.99	65.07	25		
J_{Ma}	81.26	−2.89	71.56	71.62	92		
G_{Ma}	52.23	−42.42	13.6	44.55	162		
B_{Ma}	30.57	1.41	−46.47	46.49	272		

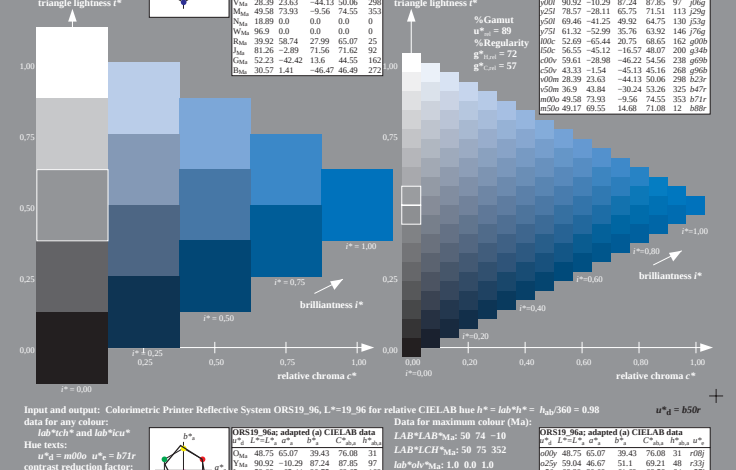
ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	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 ORS19_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



ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	
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		*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_{Ma}	39.92	58.74	27.99	65.07	25		
J_{Ma}	81.26	−2.89	71.56	71.62	92		
G_{Ma}	52.23	−42.42	13.6	44.55	162		
B_{Ma}	30.57	1.41	−46.47	46.49	272		

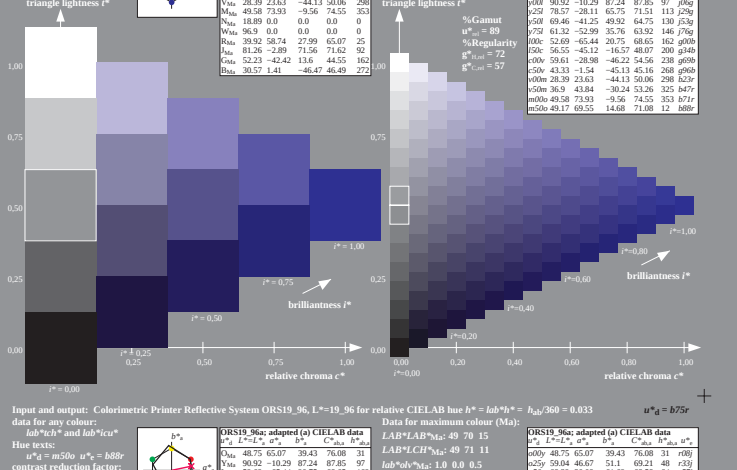
ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	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 ORS19_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



ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	
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		*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_{Ma}	39.92	58.74	27.99	65.07	25		
J_{Ma}	81.26	−2.89	71.56	71.62	92		
G_{Ma}	52.23	−42.42	13.6	44.55	162		
B_{Ma}	30.57	1.41	−46.47	46.49	272		

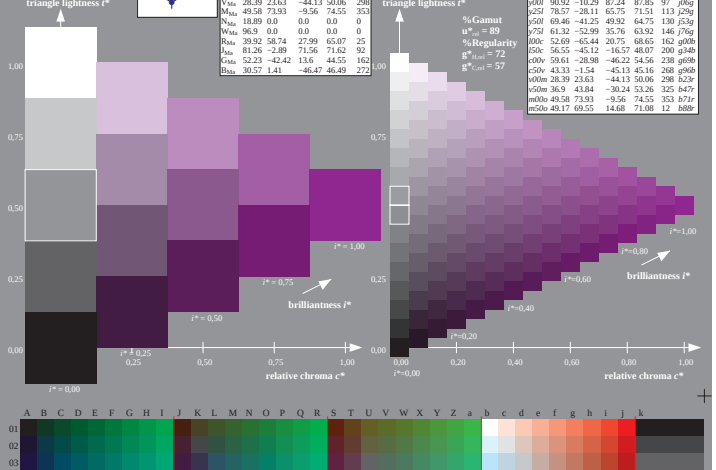
ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	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 ORS19_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



ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	
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		*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_{Ma}	39.92	58.74	27.99	65.07	25		
J_{Ma}	81.26	−2.89	71.56	71.62	92		
G_{Ma}	52.23	−42.42	13.6	44.55	162		
B_{Ma}	30.57	1.41	−46.47	46.49	272		

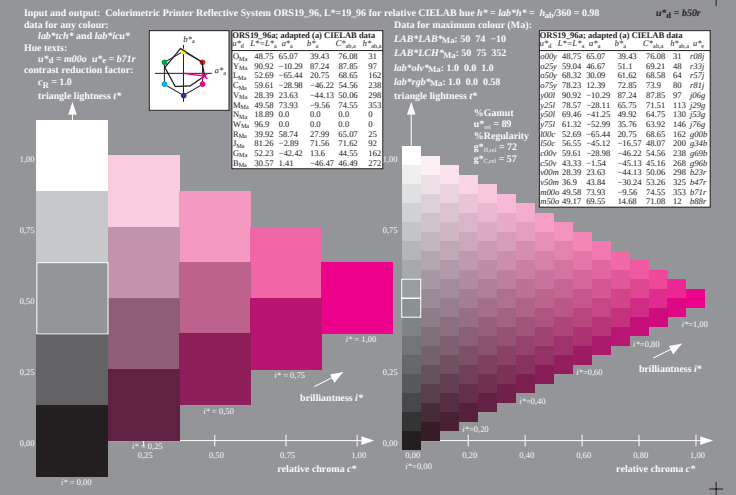
ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	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 ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.098$ $u^*_d = b50r$

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



ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	
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		*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_{Ma}	39.92	58.74	27.99	65.07	25		
J_{Ma}	81.26	−2.89	71.56	71.62	92		
G_{Ma}	52.23	−42.42	13.6	44.55	162		
B_{Ma}	30.57	1.41	−46.47	46.49	272		

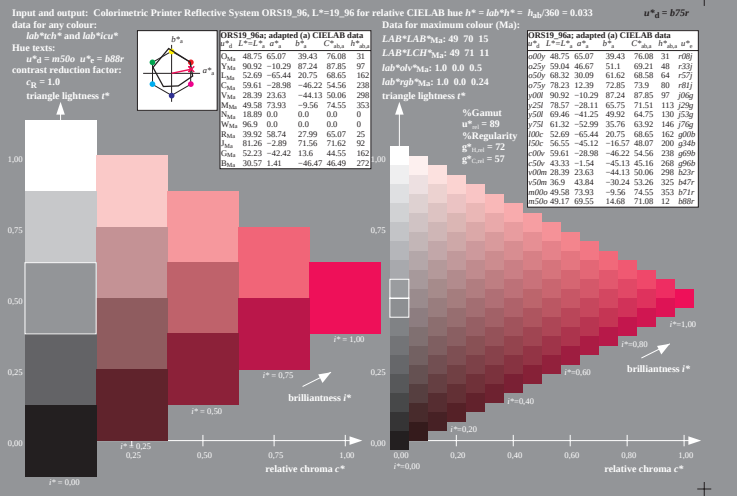
ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	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 ORS19_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

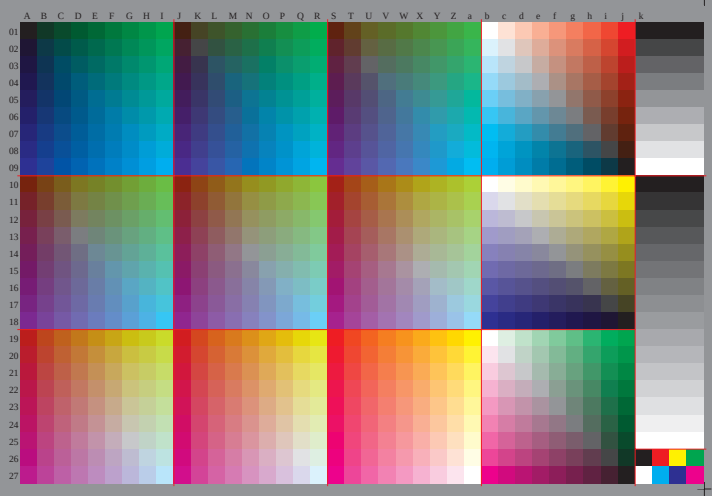


ORS19_96a; adapted (a) CIELAB data

	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	
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		*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_{Ma}	39.92	58.74	27.99	65.07	25		
J_{Ma}	81.26	−2.89	71.56	71.62	92		
G_{Ma}	52.23	−42.42	13.6	44.55	162		
B_{Ma}	30.57	1.41	−46.47	46.49	272		

ORS19_96a; adapted (a) CIELAB data

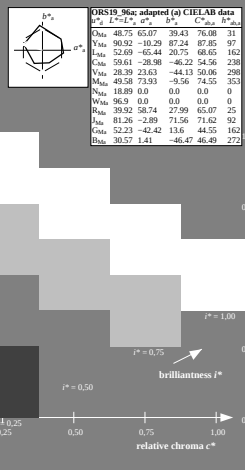
	L^*_{ed}	L^*_{ed}	a^*_{ed}	b^*_{ed}	$C^*_{ab,d}$	$h^*_{ab,d}$	u^*_e
$o00y$	48.75	65.07	39.43	76.08	31		*r08j*
$o25y$	59.04	46.67	51.1	69.21	48		*r33j*
$o50y$	68.32	30.09	61.62	68.58	64		*r57j*
$o75y$	78.23	12.39	72.85	73.9	80		*r81j*
$y00t$	90.92	−10.29	87.24	87.85	97		*j06g*
$y25t$	78.57	−28.11	65.75	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*

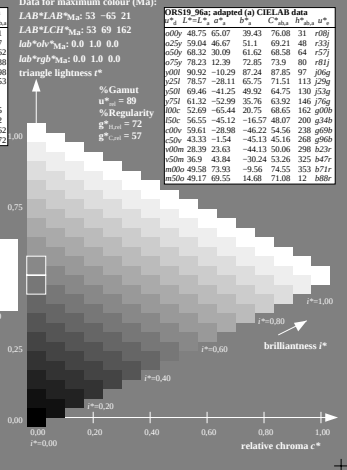


Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.451$ $u^*_d = g00b$

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^*





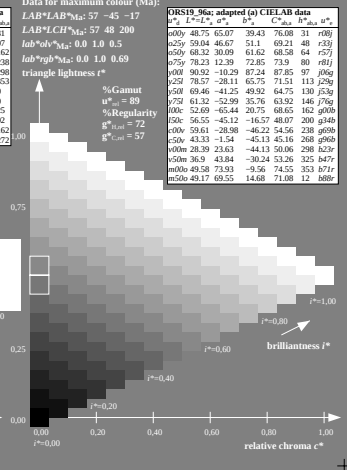
ORS19_96a; adapted (a) CIELAB data

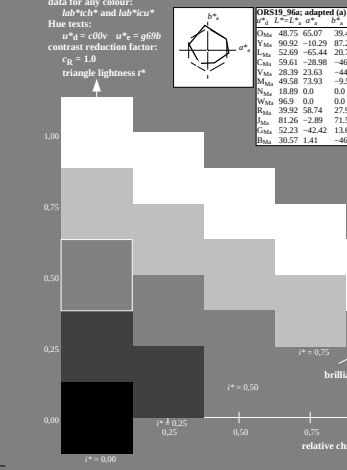
u^*_d	L^*_{ab}	a^*_{ab}	b^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_{ab}
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
I_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	
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 $h^* = lab^*h^* = h_{ab}/360 = 0.556$ $u^*_d = g25b$

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^*





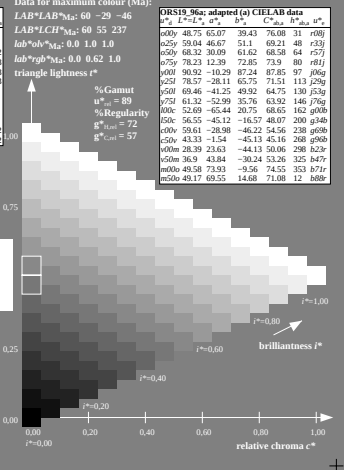
ORS19_96a; adapted (a) CIELAB data

u^*_d	L^*_{ab}	a^*_{ab}	b^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_{ab}
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
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_{Ma}	39.92	58.74	27.99	65.07	25	
I_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	
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 $h^* = lab^*h^* = h_{ab}/360 = 0.661$ $u^*_d = g50b$

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^*



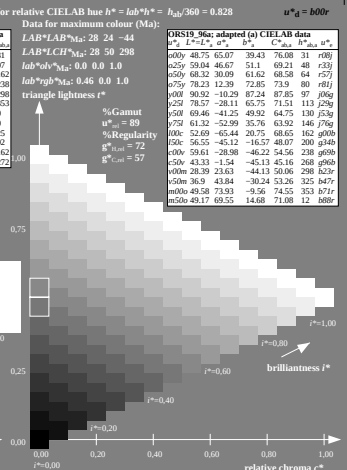
ORS19_96a; adapted (a) CIELAB data

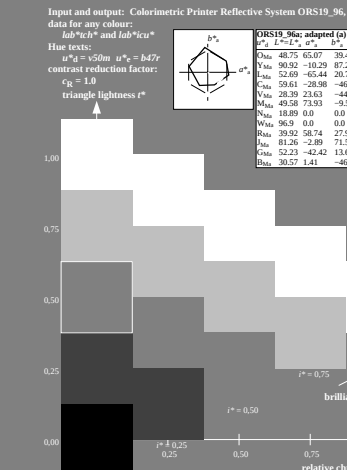
u^*_d	L^*_{ab}	a^*_{ab}	b^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_{ab}
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
I_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	
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 $h^* = lab^*h^* = h_{ab}/360 = 0.745$ $u^*_d = g75b$

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^*





ORS19_96a; adapted (a) CIELAB data

u^*_d	L^*_{ab}	a^*_{ab}	b^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_{ab}
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
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_{Ma}	39.92	58.74	27.99	65.07	25	
I_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	
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 $h^* = lab^*h^* = h_{ab}/360 = 0.828$ $u^*_d = b00r$

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^*

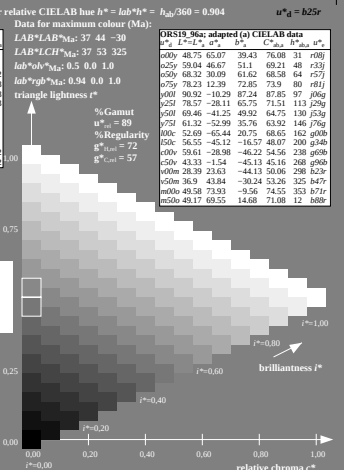
ORS19_96a; adapted (a) CIELAB data

u^*_d	L^*_{ab}	a^*_{ab}	b^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_{ab}
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
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_{Ma}	39.92	58.74	27.99	65.07	25	
I_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	
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 $h^* = lab^*h^* = h_{ab}/360 = 0.904$ $u^*_d = b25r$

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^*



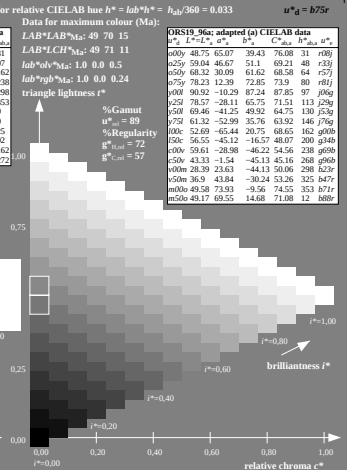
ORS19_96a; adapted (a) CIELAB data

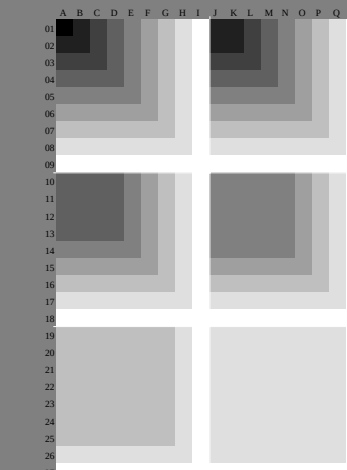
u^*_d	L^*_{ab}	a^*_{ab}	b^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_{ab}
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
I_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	
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 $h^* = lab^*h^* = h_{ab}/360 = 0.98$ $u^*_d = b50r$

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^*





ORS19_96a; adapted (a) CIELAB data

u^*_d	L^*_{ab}	a^*_{ab}	b^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_{ab}
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
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_{Ma}	39.92	58.74	27.99	65.07	25	
I_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	
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*

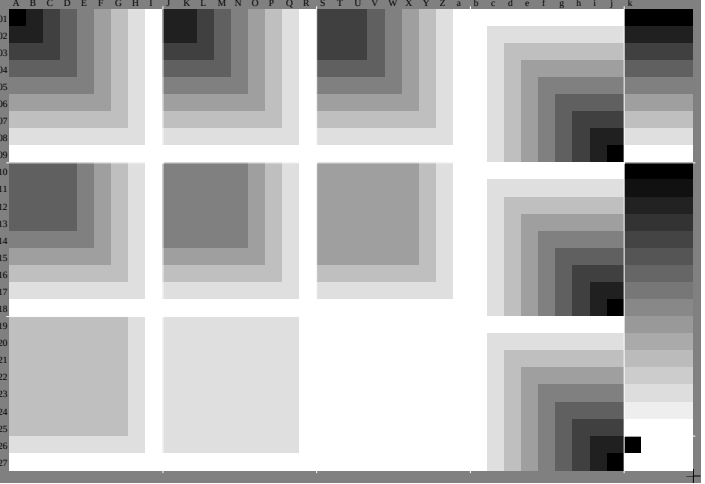
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{ab}/360 = 0.033$ $u^*_d = b75r$

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^*

ORS19_96a; adapted (a) CIELAB data

u^*_d	L^*_{ab}	a^*_{ab}	b^*_{ab}	C^*_{ab}	h^*_{ab}	u^*_{ab}
O_{Ma}	48.75	65.07	39.43	76.08	31	*r08j*
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_{Ma}	39.92	58.74	27.99	65.07	25	
I_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	
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 $h^* = lab^*h^* = h_{lab}/360 = 0.451$ $u^*_d = g00b$

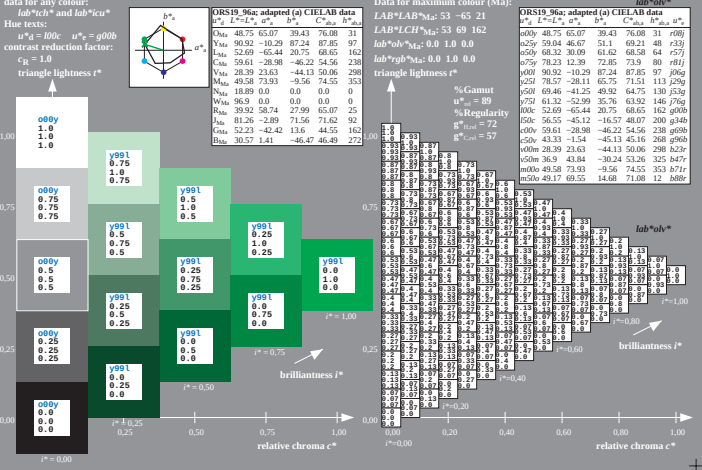
data for any colour: lab^*ch^* and lab^*icu^*

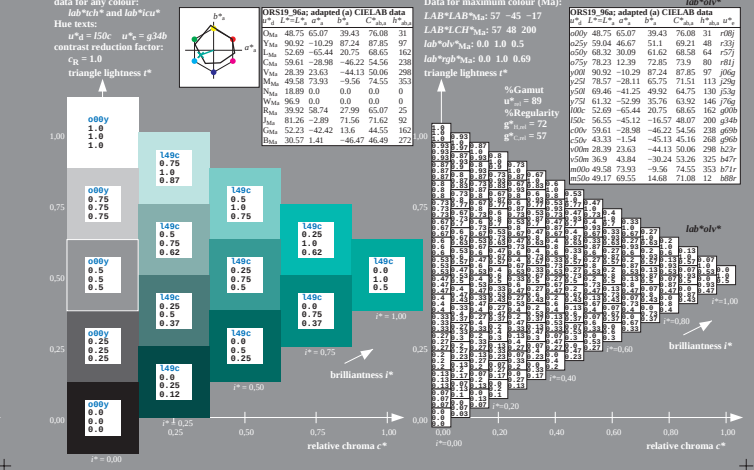
Hue texts: $u^*_d = l00c$ $u^*_e = g00b$

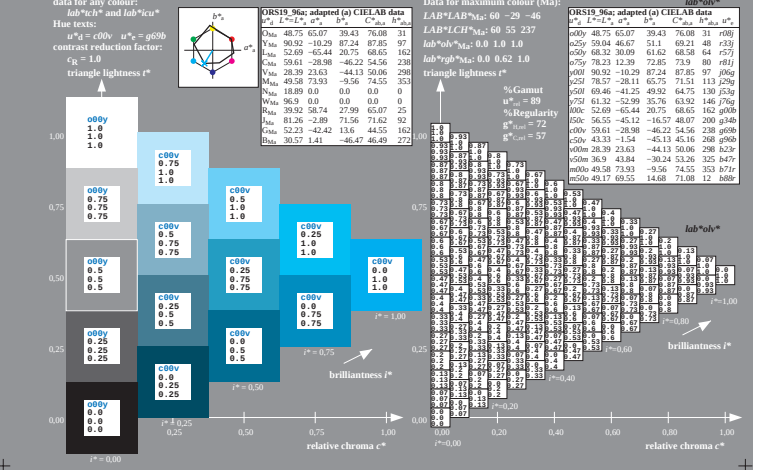
contrast reduction factor: $c_R = 1.0$

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

triangle lightness t^*







Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.556$ $u^*_d = g25b$

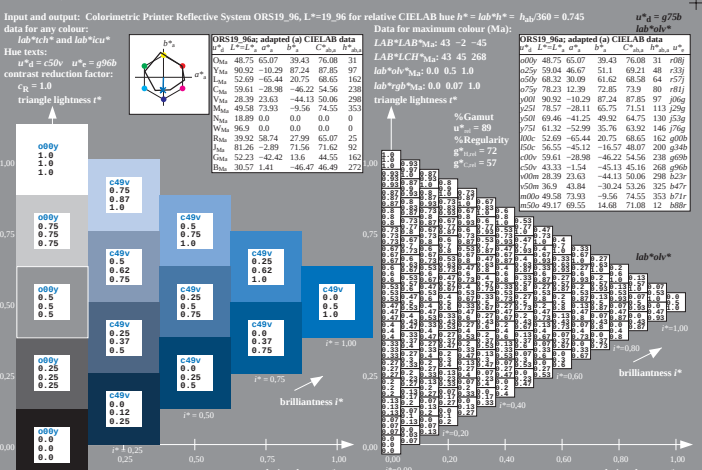
data for any colour: lab^*ch^* and lab^*icu^*

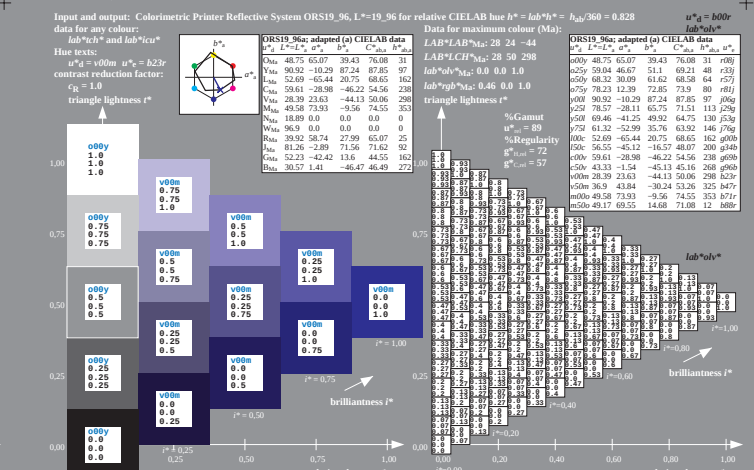
Hue texts: $u^*_d = l50c$ $u^*_e = g34b$

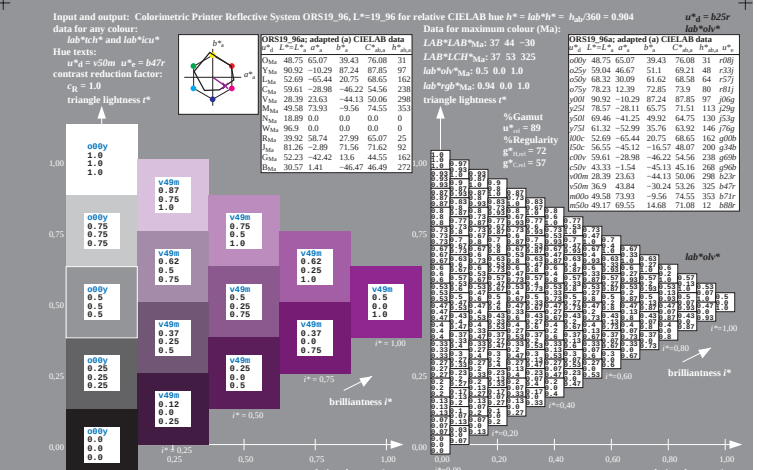
contrast reduction factor: $c_R = 1.0$

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

triangle lightness t^*







Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.661$ $u^*_d = g50b$

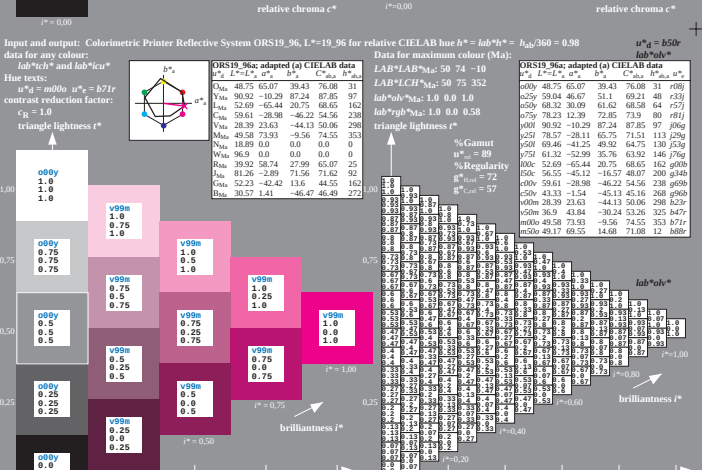
data for any colour: lab^*ch^* and lab^*icu^*

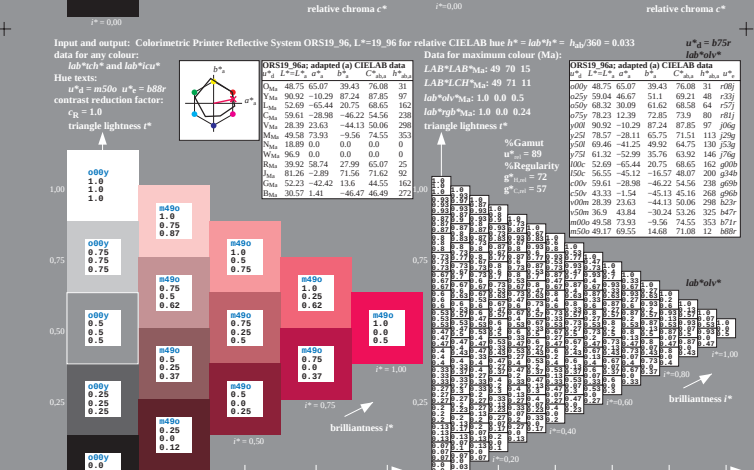
Hue texts: $u^*_d = c00v$ $u^*_e = g69b$

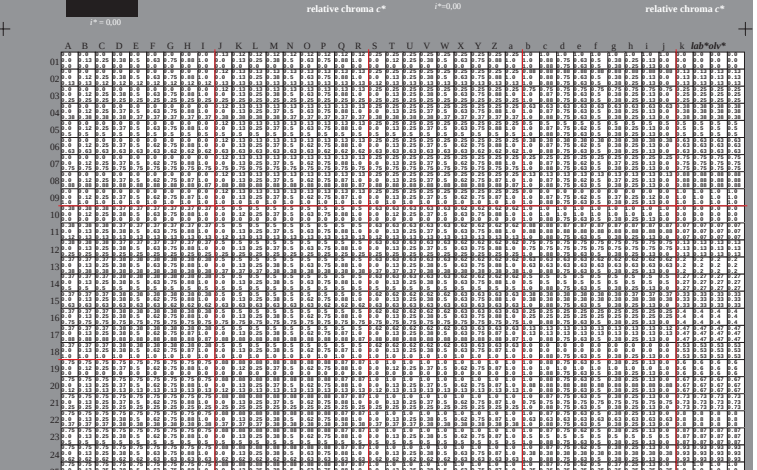
contrast reduction factor: $c_R = 1.0$

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

triangle lightness t^*







Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.745$ $u^*_d = g75b$

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = c50v$ $u^*_e = g96b$

contrast reduction factor: $c_R = 1.0$

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

triangle lightness t^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.828$ $u^*_d = b00r$

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = v00m$ $u^*_e = b23r$

contrast reduction factor: $c_R = 1.0$

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

triangle lightness t^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.904$ $u^*_d = b25r$

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = v50m$ $u^*_e = b47r$

contrast reduction factor: $c_R = 1.0$

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

triangle lightness t^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.98$ $u^*_d = b50r$

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = m00o$ $u^*_e = b71r$

contrast reduction factor: $c_R = 1.0$

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

triangle lightness t^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.033$ $u^*_d = b75r$

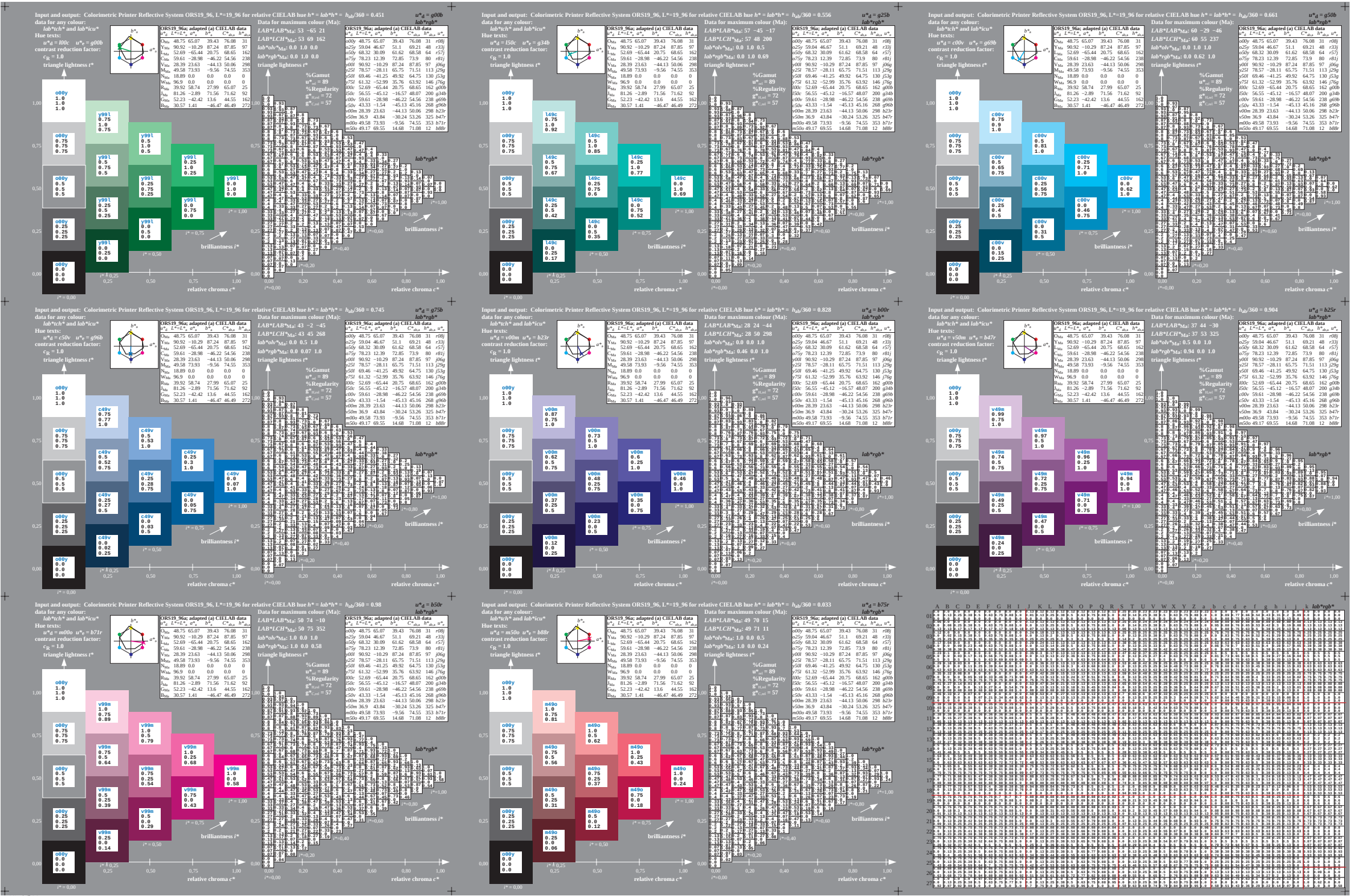
data for any colour: lab^*ch^* and lab^*icu^*

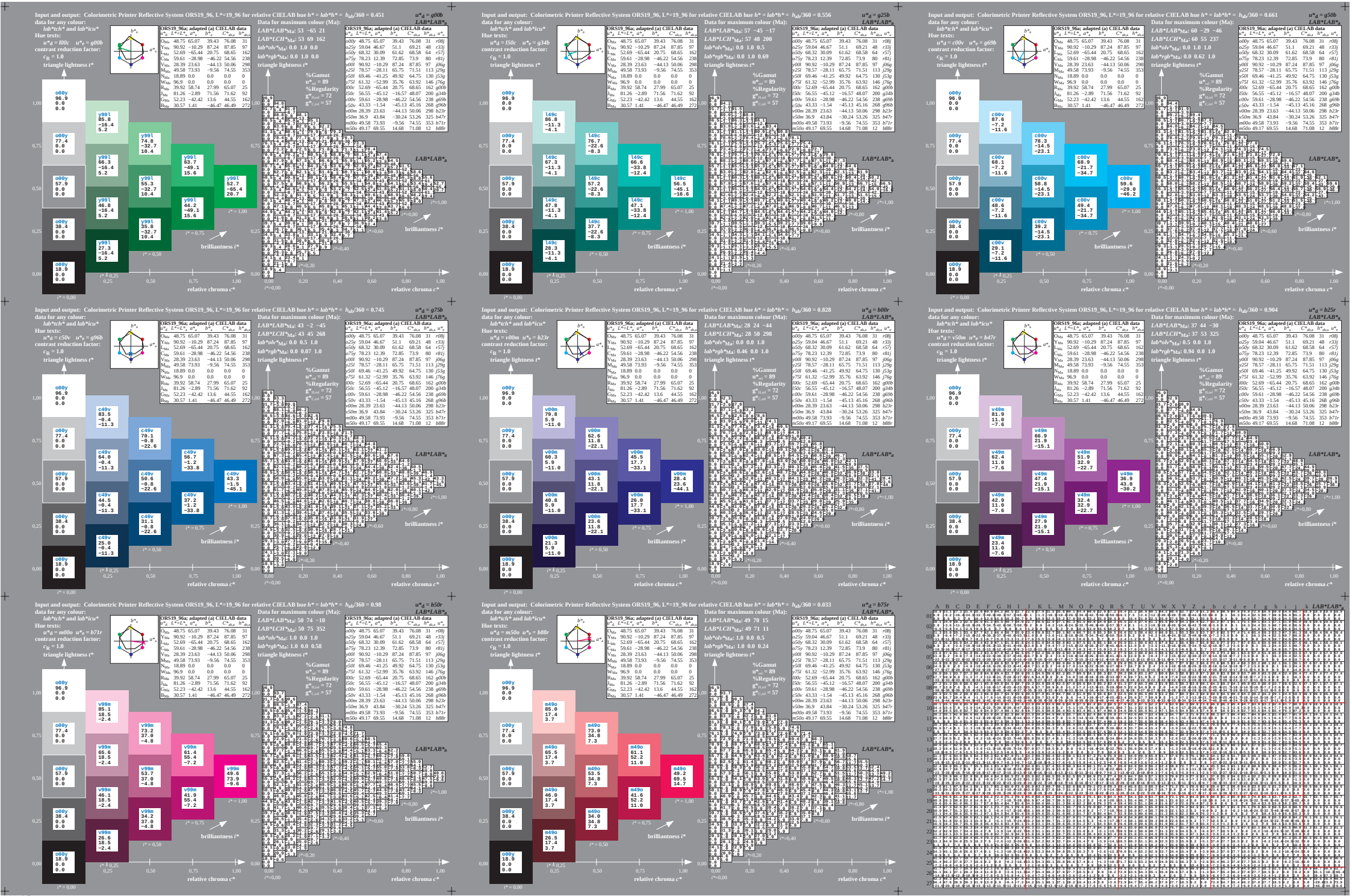
Hue texts: $u^*_d = m50o$ $u^*_e = b88r$

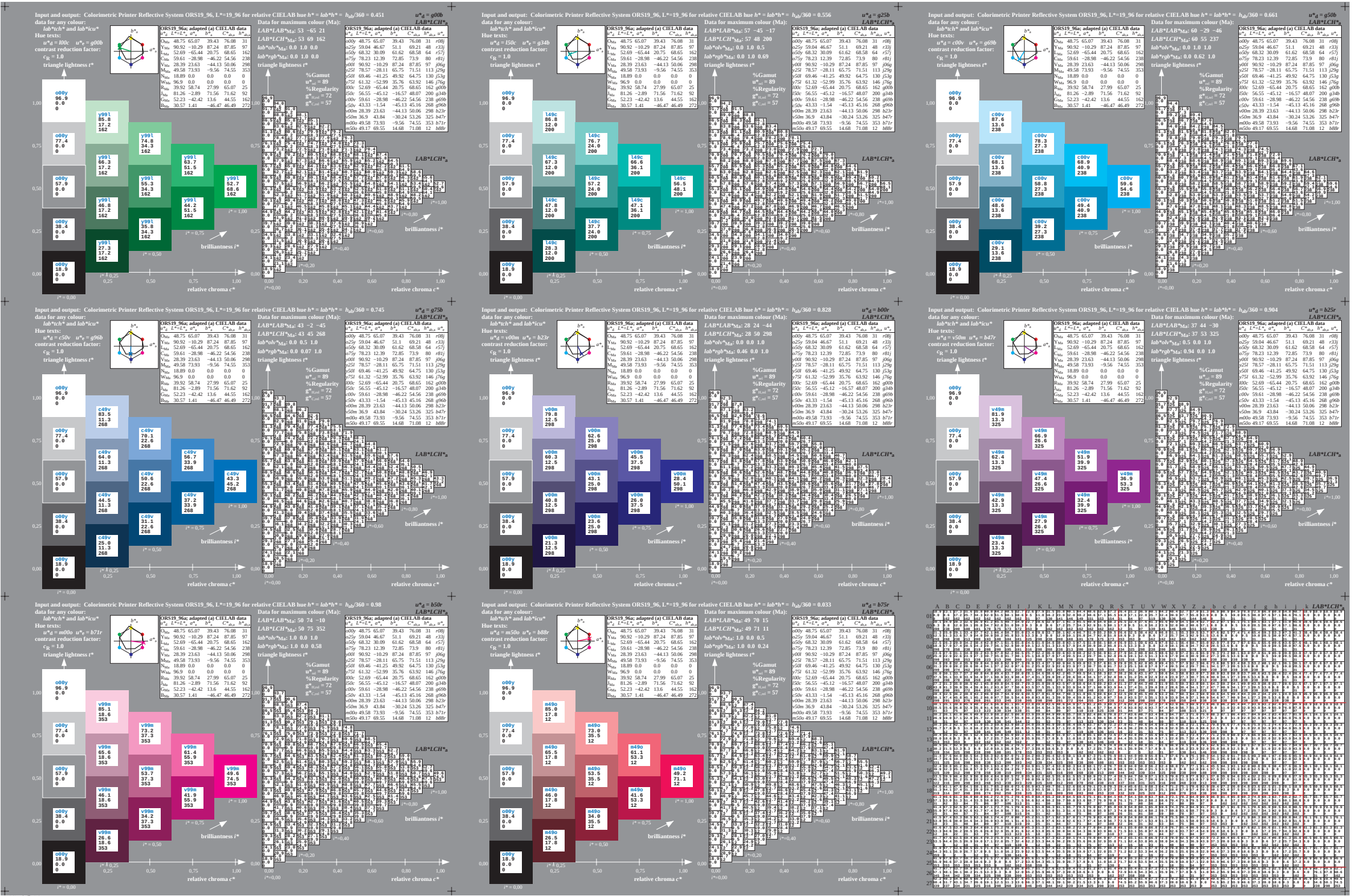
contrast reduction factor: $c_R = 1.0$

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

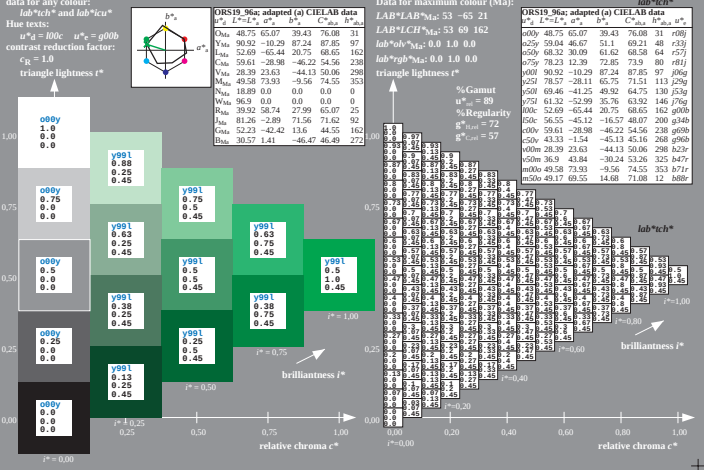
triangle lightness t^*


Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.451
u*_d = g00b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = l00c u*_c = g00b
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*_Ma: 53 −65 21
LAB*LCH*_Ma: 53 69 162
lab*ob*_Ma: 0.0 1.0 0.0
lab*rgb*_Ma: 0.0 1.0 0.0
triangle lightness t*
%Gamut
u*_u = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
lab*rgb*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.556
u*_d = g25b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = l50c u*_c = g34b
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*_Ma: 57 −45 −17
LAB*LCH*_Ma: 57 48 200
lab*ob*_Ma: 0.0 1.0 0.5
lab*rgb*_Ma: 0.0 1.0 0.69
triangle lightness t*
%Gamut
u*_u = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
lab*rgb*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.661
u*_d = g50b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = c00v u*_c = g69b
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*_Ma: 60 −29 −46
LAB*LCH*_Ma: 60 55 237
lab*ob*_Ma: 0.0 1.0 1.0
lab*rgb*_Ma: 0.0 0.62 1.0
triangle lightness t*
%Gamut
u*_u = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
lab*rgb*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.745
u*_d = g75b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = c50v u*_c = g96b
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*_Ma: 43 −2 −45
LAB*LCH*_Ma: 43 45 268
lab*ob*_Ma: 0.0 0.5 1.0
lab*rgb*_Ma: 0.0 0.07 1.0
triangle lightness t*
%Gamut
u*_u = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
lab*rgb*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.828
u*_d = b00r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = v00m u*_c = b23r
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*_Ma: 28 24 −44
LAB*LCH*_Ma: 28 50 298
lab*ob*_Ma: 0.0 0.0 1.0
lab*rgb*_Ma: 0.46 0.0 1.0
triangle lightness t*
%Gamut
u*_u = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
lab*rgb*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.904
u*_d = b25r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = v50m u*_c = b47r
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*_Ma: 37 44 −30
LAB*LCH*_Ma: 37 53 325
lab*ob*_Ma: 0.5 0.0 1.0
lab*rgb*_Ma: 0.94 0.0 1.0
triangle lightness t*
%Gamut
u*_u = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
lab*rgb*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.98
u*_d = b50r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = m00o u*_c = b71r
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*_Ma: 50 74 −10
LAB*LCH*_Ma: 50 75 352
lab*ob*_Ma: 1.0 0.0 1.0
lab*rgb*_Ma: 1.0 0.0 0.58
triangle lightness t*
%Gamut
u*_u = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
lab*rgb*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.033
u*_d = b75r
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = m50o u*_c = b88r
contrast reduction factor:
c_G = 1.0
triangle lightness t*
Data for maximum colour (Ma):
LAB*LAB*_Ma: 49 70 15
LAB*LCH*_Ma: 49 71 11
lab*ob*_Ma: 1.0 0.0 0.5
lab*rgb*_Ma: 1.0 0.0 0.24
triangle lightness t*
%Gamut
u*_u = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
lab*rgb*
brilliantness i*
relative chroma c*

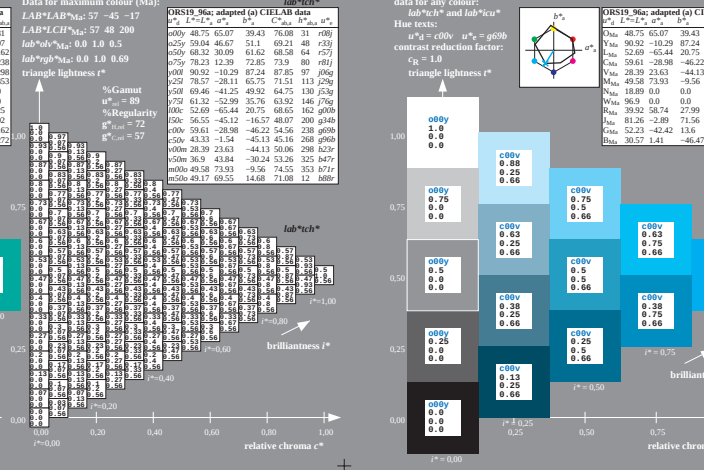

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.451
u*d = g00b
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l00c u*c = g00b
contrast reduction factor:
cg = 1.0
triangle lightness t*
Data for maximum colour (Ma):
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*= 89
%Regularity
g*H,rel = 72
g*C,rel = 57
ORS19_96a; adapted a) CIELAB data
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.556
u*d = g25b
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
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.661
u*d = g50b
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
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.745
u*d = g75b
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
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.828
u*d = b00r
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
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.904
u*d = b25r
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
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.98
u*d = b50r
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
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.033
u*d = b75r
Data for maximum colour (Ma):
LAB*LAB*Ma: 57 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


Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.451
u*d = g00b
LAB*LCH*a
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l00c u*c = g00b
contrast reduction factor:
cg = 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
%Gamut
u*a = 89
%Regularity
g*H,rel = 72
g*C,rel = 57
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.556
u*d = g25b
LAB*LCH*a
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
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.661
u*d = g50b
LAB*LCH*a
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
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.745
u*d = g75b
LAB*LCH*a
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
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.828
u*d = b00r
LAB*LCH*a
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
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.904
u*d = b25r
LAB*LCH*a
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
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.98
u*d = b50r
LAB*LCH*a
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
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.033
u*d = b75r
LAB*LCH*a
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

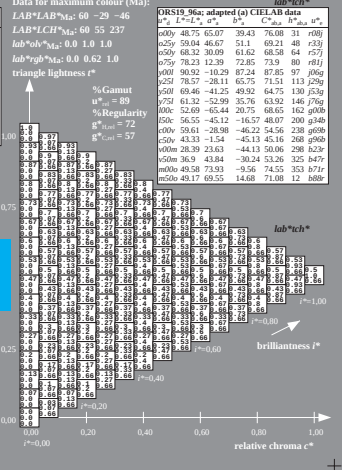
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.451$ $u^*_d = g00b$ lab*tch*
data for any colour: lab*tch* and lab*icu*
Hue texts: $u^*_d = l00c$ $u^*_e = g00b$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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



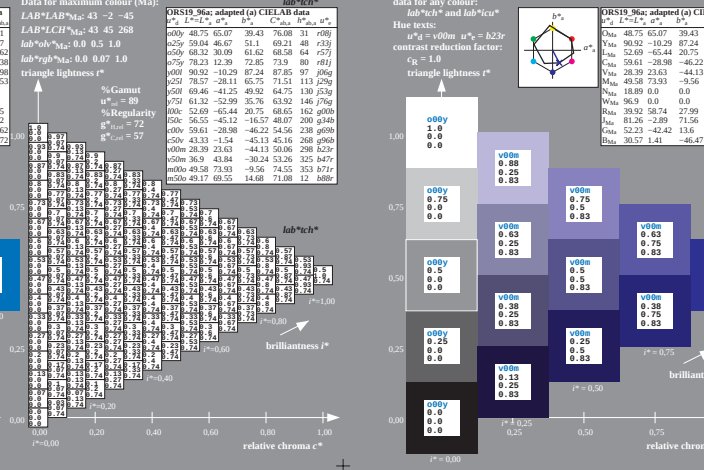
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.556$ $u^*_d = g25b$ lab*tch*
data for any colour: lab*tch* and lab*icu*
Hue texts: $u^*_d = l50c$ $u^*_e = g34b$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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



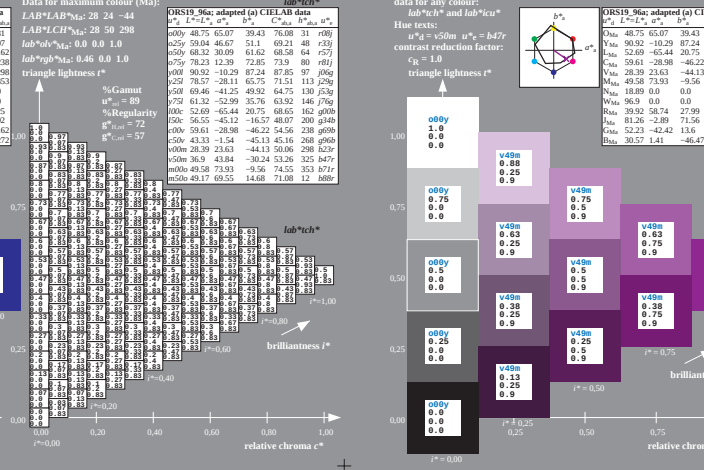
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.661$ $u^*_d = g50b$ lab*tch*
data for any colour: lab*tch* and lab*icu*
Hue texts: $u^*_d = c00v$ $u^*_e = g69b$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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



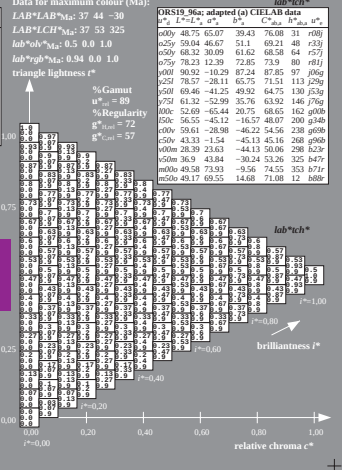
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.745$ $u^*_d = g75b$ lab*tch*
data for any colour: lab*tch* and lab*icu*
Hue texts: $u^*_d = c50v$ $u^*_e = g96b$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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



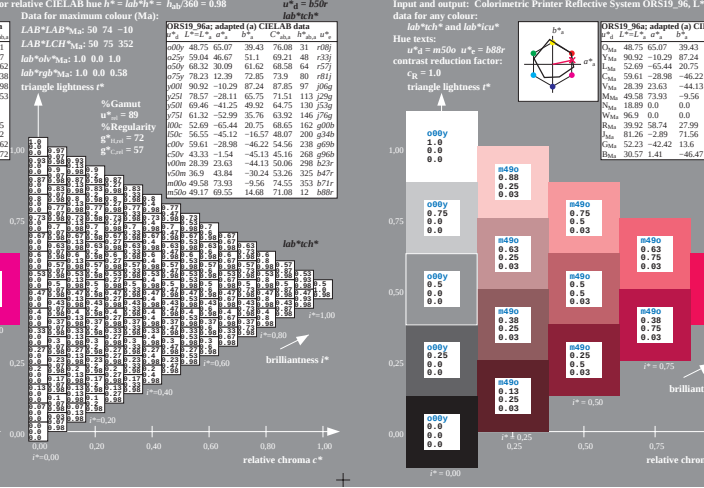
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.828$ $u^*_d = b00r$ lab*tch*
data for any colour: lab*tch* and lab*icu*
Hue texts: $u^*_d = v00m$ $u^*_e = b23r$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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



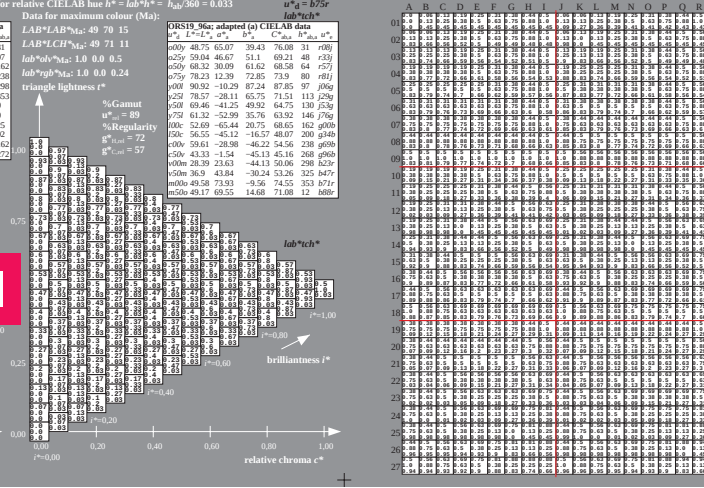
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.904$ $u^*_d = b25r$ lab*tch*
data for any colour: lab*tch* and lab*icu*
Hue texts: $u^*_d = v50m$ $u^*_e = b47r$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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

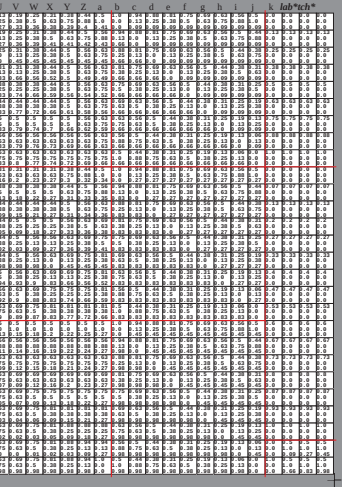


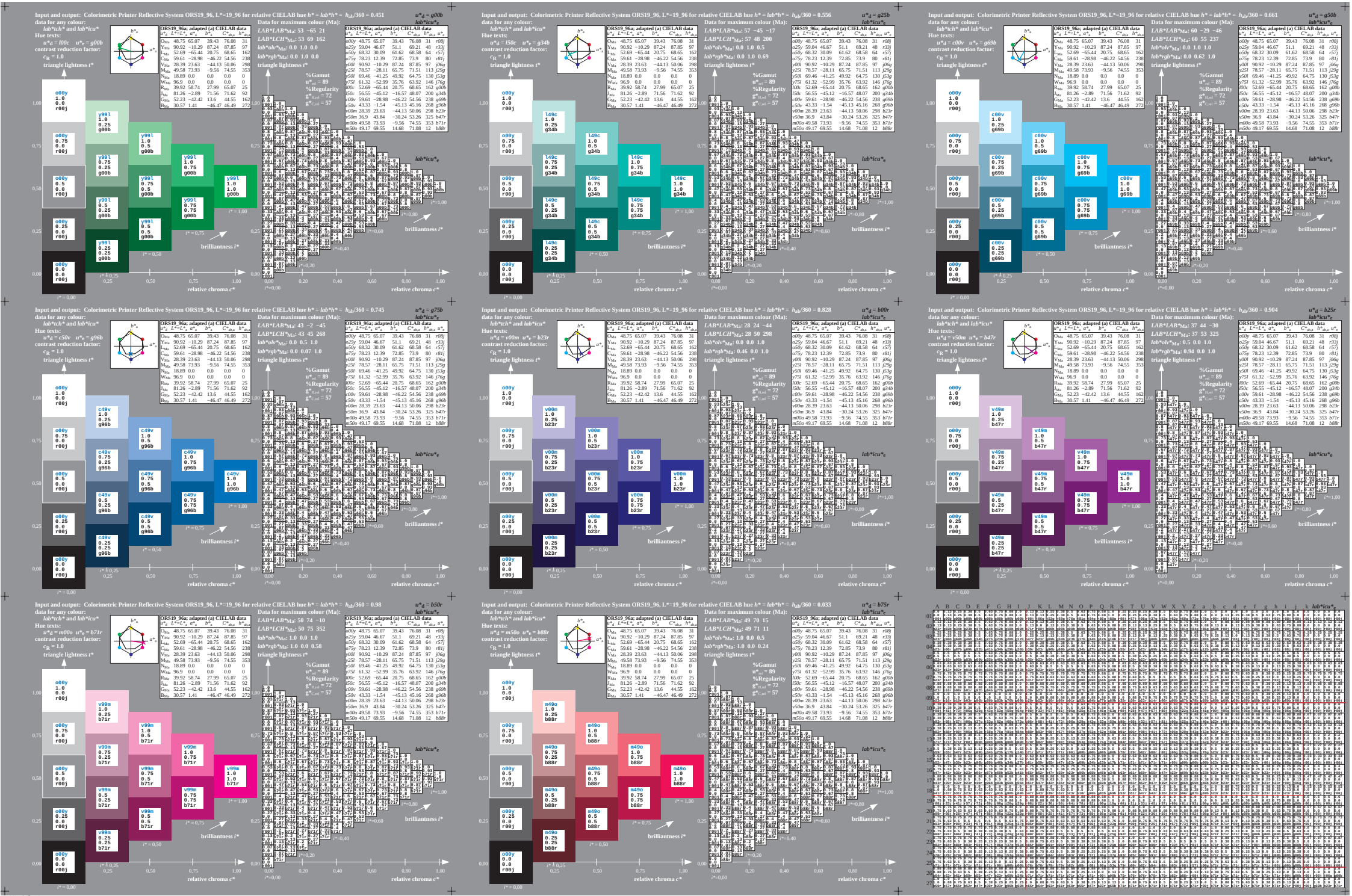
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.98$ $u^*_d = b50r$ lab*tch*
data for any colour: lab*tch* and lab*icu*
Hue texts: $u^*_d = m00o$ $u^*_e = b71r$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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

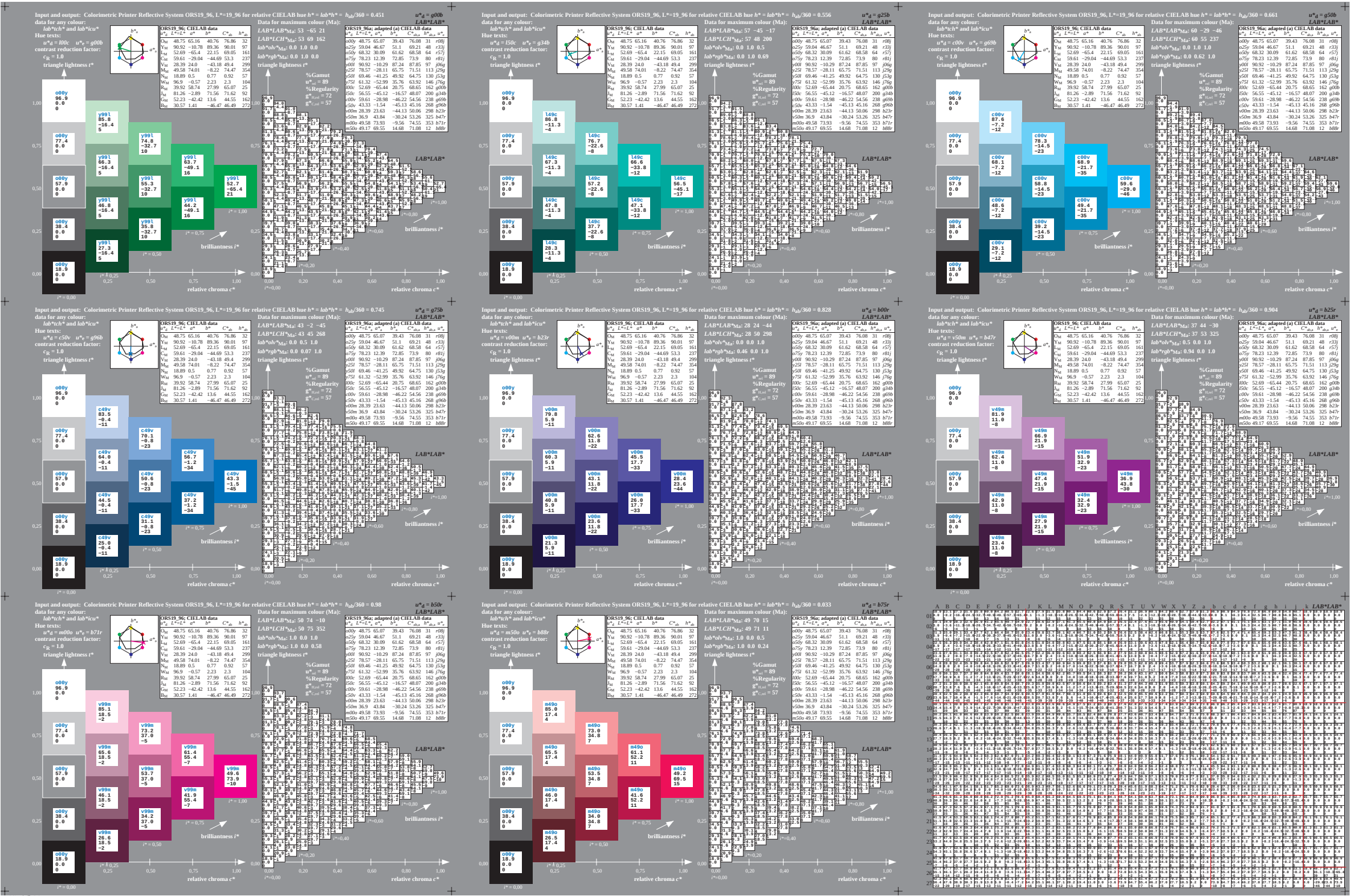


Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.033$ $u^*_d = b75r$ lab*tch*
data for any colour: lab*tch* and lab*icu*
Hue texts: $u^*_d = m50o$ $u^*_e = b88r$
contrast reduction factor: $c_R = 1.0$
triangle lightness 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






Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.451
u*_d = g00b
lab*icu*_c
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = l00c u*_c = 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*ob*_Ma: 0.0 1.0 0.0
lab*rgb*_Ma: 0.0 1.0 0.0
ORS19_96a; adapted a) CIELAB data
%Gamut
u*_c = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.556
u*_d = g25b
lab*icu*_c
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = l50c u*_c = 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*ob*_Ma: 0.0 1.0 0.5
lab*rgb*_Ma: 0.0 1.0 0.69
ORS19_96a; adapted a) CIELAB data
%Gamut
u*_c = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.661
u*_d = g50b
lab*icu*_c
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = c00v u*_c = 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*ob*_Ma: 0.0 1.0 1.0
lab*rgb*_Ma: 0.0 0.62 1.0
ORS19_96a; adapted a) CIELAB data
%Gamut
u*_c = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.745
u*_d = g75b
lab*icu*_c
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = c50v u*_c = 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*ob*_Ma: 0.0 0.5 1.0
lab*rgb*_Ma: 0.0 0.07 1.0
ORS19_96a; adapted a) CIELAB data
%Gamut
u*_c = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.828
u*_d = b00r
lab*icu*_c
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = v00m u*_c = 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*ob*_Ma: 0.0 0.0 1.0
lab*rgb*_Ma: 0.46 0.0 1.0
ORS19_96a; adapted a) CIELAB data
%Gamut
u*_c = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.904
u*_d = b25r
lab*icu*_c
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = v50m u*_c = 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*ob*_Ma: 0.5 0.0 1.0
lab*rgb*_Ma: 0.94 0.0 1.0
ORS19_96a; adapted a) CIELAB data
%Gamut
u*_c = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.98
u*_d = b50r
lab*icu*_c
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = m00o u*_c = 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*ob*_Ma: 1.0 0.0 1.0
lab*rgb*_Ma: 1.0 0.0 0.58
ORS19_96a; adapted a) CIELAB data
%Gamut
u*_c = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
brilliantness j*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.033
u*_d = b75r
lab*icu*_c
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*_d = m50o u*_c = 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*ob*_Ma: 1.0 0.0 0.5
lab*rgb*_Ma: 1.0 0.0 0.24
ORS19_96a; adapted a) CIELAB data
%Gamut
u*_c = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
brilliantness j*
relative chroma c*


Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.451
u*d = g00b
LAB*LAB*
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l00c u*c = 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*ob*Ma: 0.0 1.0 0.0
lab*rgb*Ma: 0.0 1.0 0.0
ORS19_96; CIELAB data
ORS19_96a; adapted (a) CIELAB data
%Gamut
u*_a = 89
%Regularity
g*_H,rel = 72
g*_C,rel = 57
relative chroma c*
brilliantness j*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.556
u*d = g25b
LAB*LAB*
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = l50c u*c = 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*ob*Ma: 0.0 1.0 0.5
lab*rgb*Ma: 0.0 1.0 0.69
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.661
u*d = g50b
LAB*LAB*
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = c00v u*c = 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*ob*Ma: 0.0 1.0 1.0
lab*rgb*Ma: 0.0 0.62 1.0
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.745
u*d = g75b
LAB*LAB*
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = c50v u*c = 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*ob*Ma: 0.0 0.5 1.0
lab*rgb*Ma: 0.0 0.07 1.0
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.828
u*d = b00r
LAB*LAB*
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = v00m u*c = 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*ob*Ma: 0.0 0.0 1.0
lab*rgb*Ma: 0.46 0.0 1.0
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.904
u*d = b25r
LAB*LAB*
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = v50m u*c = 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*ob*Ma: 0.5 0.0 1.0
lab*rgb*Ma: 0.94 0.0 1.0
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.98
u*d = b50r
LAB*LAB*
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = m00o u*c = 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*ob*Ma: 1.0 0.0 1.0
lab*rgb*Ma: 1.0 0.0 0.58
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_lab/360 = 0.033
u*d = b75r
LAB*LAB*
data for any colour:
lab*ch* and lab*icu*
Hue texts:
u*d = m50o u*c = 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*ob*Ma: 1.0 0.0 0.5
lab*rgb*Ma: 1.0 0.0 0.24
LAB*LAB*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.451$ $u^*_d = g00b$ lab^*olv^*

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = l00c$ $u^*_e = g00b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

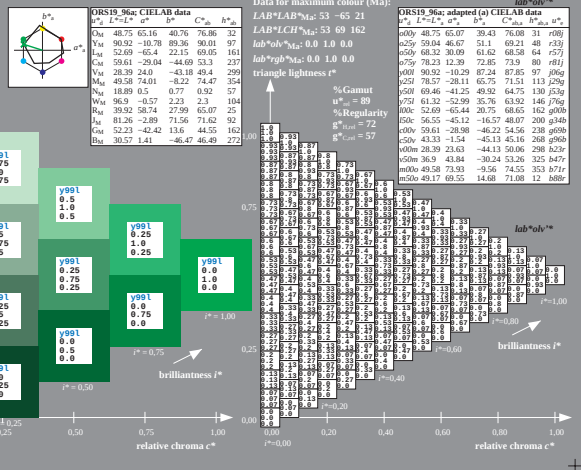
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 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; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Na}	48.75	65.16	40.76	76.86	32
Y_{Ni}	90.92	−10.78	89.36	90.01	97
L_{Mi}	52.69	−65.44	22.15	69.05	161
C_{Mi}	59.61	−29.04	−44.69	53.3	237
V_{Ni}	28.39	24.0	−43.18	49.4	299
M_{Ni}	49.58	74.01	−8.22	74.47	354
N_{Ni}	18.89	0.5	0.77	0.92	57
W_{Ni}	96.9	−0.57	2.23	2.3	104
R_{Ni}	39.92	58.74	27.99	65.07	25
I_{Ni}	81.26	−2.89	71.56	71.62	92
G_{Ni}	52.23	−42.42	13.6	44.55	162
B_{Ni}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

	$L^*=L^*$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	48.75	65.07	39.43	76.08	31	r08j
$o_{25}y$	59.04	46.67	51.1	69.21	48	r33j
$o_{50}y$	68.32	30.09	61.62	68.58	64	r57j
$o_{75}y$	78.23	12.39	72.85	73.9	80	r81j
$y_{00}y$	90.92	−10.29	87.24	87.85	97	j06g
$y_{25}y$	78.57	−28.11	65.75	71.51	113	j29g
$y_{50}y$	69.46	−41.25	49.92	64.75	130	j53g
$y_{75}y$	61.32	−52.99	35.76	63.92	146	j76g
$l_{00}c$	52.69	−65.44	20.75	68.65	162	g00b
$l_{50}c$	56.55	−45.12	−16.57	48.07	200	g34b
$c_{00}v$	59.61	−28.98	−46.22	54.56	238	g69b
$c_{50}v$	43.33	−1.54	−45.13	45.16	268	g96b
$v_{00}m$	28.39	23.63	−44.13	50.06	298	b23v
$v_{50}m$	36.9	43.84	−30.24	53.26	325	b47v
$m_{00}o$	49.58	73.93	−9.56	74.55	353	b71r
$m_{50}o$	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 $h^* = lab^*h^* = h_{lab}/360 = 0.556$ $u^*_d = g25b$ lab^*olv^*

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = l50c$ $u^*_e = g34b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

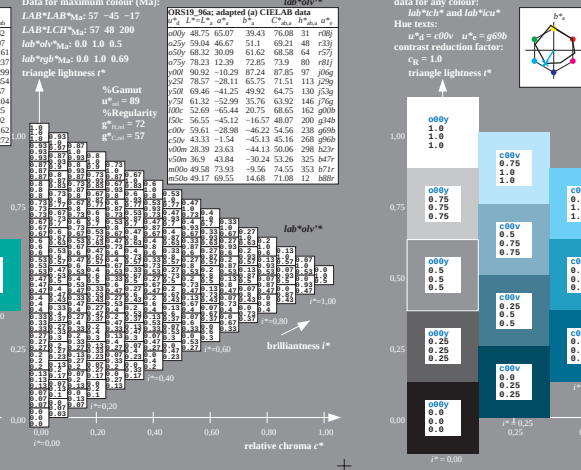
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 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; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Na}	48.75	65.16	40.76	76.86	32
Y_{Ni}	90.92	−10.78	89.36	90.01	97
L_{Mi}	52.69	−65.44	22.15	69.05	161
C_{Mi}	59.61	−29.04	−44.69	53.3	237
V_{Ni}	28.39	24.0	−43.18	49.4	299
M_{Ni}	49.58	74.01	−8.22	74.47	354
N_{Ni}	18.89	0.5	0.77	0.92	57
W_{Ni}	96.9	−0.57	2.23	2.3	104
R_{Ni}	39.92	58.74	27.99	65.07	25
I_{Ni}	81.26	−2.89	71.56	71.62	92
G_{Ni}	52.23	−42.42	13.6	44.55	162
B_{Ni}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

	$L^*=L^*$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	48.75	65.07	39.43	76.08	31	r08j
$o_{25}y$	59.04	46.67	51.1	69.21	48	r33j
$o_{50}y$	68.32	30.09	61.62	68.58	64	r57j
$o_{75}y$	78.23	12.39	72.85	73.9	80	r81j
$y_{00}y$	90.92	−10.29	87.24	87.85	97	j06g
$y_{25}y$	78.57	−28.11	65.75	71.51	113	j29g
$y_{50}y$	69.46	−41.25	49.92	64.75	130	j53g
$y_{75}y$	61.32	−52.99	35.76	63.92	146	j76g
$l_{00}c$	52.69	−65.44	20.75	68.65	162	g00b
$l_{50}c$	56.55	−45.12	−16.57	48.07	200	g34b
$c_{00}v$	59.61	−28.98	−46.22	54.56	238	g69b
$c_{50}v$	43.33	−1.54	−45.13	45.16	268	g96b
$v_{00}m$	28.39	23.63	−44.13	50.06	298	b23v
$v_{50}m$	36.9	43.84	−30.24	53.26	325	b47v
$m_{00}o$	49.58	73.93	−9.56	74.55	353	b71r
$m_{50}o$	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 $h^* = lab^*h^* = h_{lab}/360 = 0.661$ $u^*_d = g50b$ lab^*olv^*

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = c00v$ $u^*_e = g69b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

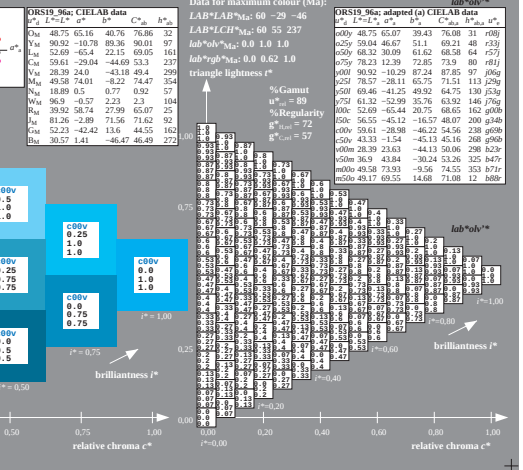
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 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; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Na}	48.75	65.16	40.76	76.86	32
Y_{Ni}	90.92	−10.78	89.36	90.01	97
L_{Mi}	52.69	−65.44	22.15	69.05	161
C_{Mi}	59.61	−29.04	−44.69	53.3	237
V_{Ni}	28.39	24.0	−43.18	49.4	299
M_{Ni}	49.58	74.01	−8.22	74.47	354
N_{Ni}	18.89	0.5	0.77	0.92	57
W_{Ni}	96.9	−0.57	2.23	2.3	104
R_{Ni}	39.92	58.74	27.99	65.07	25
I_{Ni}	81.26	−2.89	71.56	71.62	92
G_{Ni}	52.23	−42.42	13.6	44.55	162
B_{Ni}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

	$L^*=L^*$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	48.75	65.07	39.43	76.08	31	r08j
$o_{25}y$	59.04	46.67	51.1	69.21	48	r33j
$o_{50}y$	68.32	30.09	61.62	68.58	64	r57j
$o_{75}y$	78.23	12.39	72.85	73.9	80	r81j
$y_{00}y$	90.92	−10.29	87.24	87.85	97	j06g
$y_{25}y$	78.57	−28.11	65.75	71.51	113	j29g
$y_{50}y$	69.46	−41.25	49.92	64.75	130	j53g
$y_{75}y$	61.32	−52.99	35.76	63.92	146	j76g
$l_{00}c$	52.69	−65.44	20.75	68.65	162	g00b
$l_{50}c$	56.55	−45.12	−16.57	48.07	200	g34b
$c_{00}v$	59.61	−28.98	−46.22	54.56	238	g69b
$c_{50}v$	43.33	−1.54	−45.13	45.16	268	g96b
$v_{00}m$	28.39	23.63	−44.13	50.06	298	b23v
$v_{50}m$	36.9	43.84	−30.24	53.26	325	b47v
$m_{00}o$	49.58	73.93	−9.56	74.55	353	b71r
$m_{50}o$	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 $h^* = lab^*h^* = h_{lab}/360 = 0.745$ $u^*_d = g75b$ lab^*olv^*

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = c50v$ $u^*_e = g96b$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

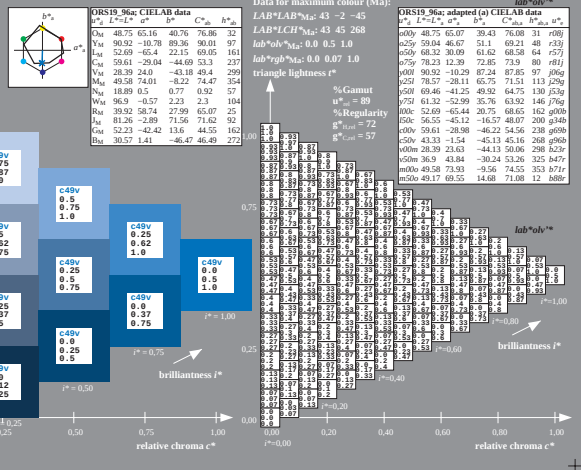
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 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; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Na}	48.75	65.16	40.76	76.86	32
Y_{Ni}	90.92	−10.78	89.36	90.01	97
L_{Mi}	52.69	−65.44	22.15	69.05	161
C_{Mi}	59.61	−29.04	−44.69	53.3	237
V_{Ni}	28.39	24.0	−43.18	49.4	299
M_{Ni}	49.58	74.01	−8.22	74.47	354
N_{Ni}	18.89	0.5	0.77	0.92	57
W_{Ni}	96.9	−0.57	2.23	2.3	104
R_{Ni}	39.92	58.74	27.99	65.07	25
I_{Ni}	81.26	−2.89	71.56	71.62	92
G_{Ni}	52.23	−42.42	13.6	44.55	162
B_{Ni}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

	$L^*=L^*$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	48.75	65.07	39.43	76.08	31	r08j
$o_{25}y$	59.04	46.67	51.1	69.21	48	r33j
$o_{50}y$	68.32	30.09	61.62	68.58	64	r57j
$o_{75}y$	78.23	12.39	72.85	73.9	80	r81j
$y_{00}y$	90.92	−10.29	87.24	87.85	97	j06g
$y_{25}y$	78.57	−28.11	65.75	71.51	113	j29g
$y_{50}y$	69.46	−41.25	49.92	64.75	130	j53g
$y_{75}y$	61.32	−52.99	35.76	63.92	146	j76g
$l_{00}c$	52.69	−65.44	20.75	68.65	162	g00b
$l_{50}c$	56.55	−45.12	−16.57	48.07	200	g34b
$c_{00}v$	59.61	−28.98	−46.22	54.56	238	g69b
$c_{50}v$	43.33	−1.54	−45.13	45.16	268	g96b
$v_{00}m$	28.39	23.63	−44.13	50.06	298	b23v
$v_{50}m$	36.9	43.84	−30.24	53.26	325	b47v
$m_{00}o$	49.58	73.93	−9.56	74.55	353	b71r
$m_{50}o$	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 $h^* = lab^*h^* = h_{lab}/360 = 0.828$ $u^*_d = b00r$ lab^*olv^*

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = v00m$ $u^*_e = b23r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

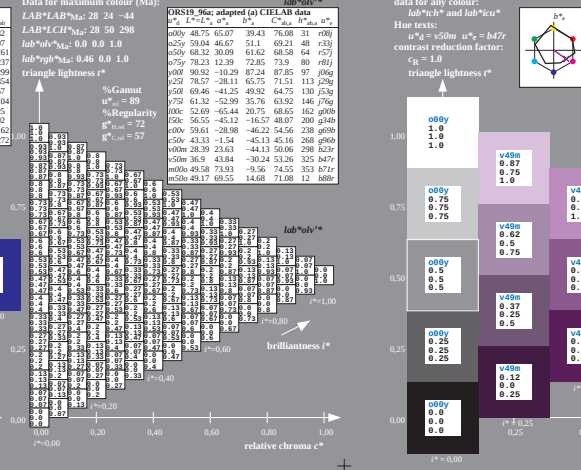
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 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; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Na}	48.75	65.16	40.76	76.86	32
Y_{Ni}	90.92	−10.78	89.36	90.01	97
L_{Mi}	52.69	−65.44	22.15	69.05	161
C_{Mi}	59.61	−29.04	−44.69	53.3	237
V_{Ni}	28.39	24.0	−43.18	49.4	299
M_{Ni}	49.58	74.01	−8.22	74.47	354
N_{Ni}	18.89	0.5	0.77	0.92	57
W_{Ni}	96.9	−0.57	2.23	2.3	104
R_{Ni}	39.92	58.74	27.99	65.07	25
I_{Ni}	81.26	−2.89	71.56	71.62	92
G_{Ni}	52.23	−42.42	13.6	44.55	162
B_{Ni}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

	$L^*=L^*$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	48.75	65.07	39.43	76.08	31	r08j
$o_{25}y$	59.04	46.67	51.1	69.21	48	r33j
$o_{50}y$	68.32	30.09	61.62	68.58	64	r57j
$o_{75}y$	78.23	12.39	72.85	73.9	80	r81j
$y_{00}y$	90.92	−10.29	87.24	87.85	97	j06g
$y_{25}y$	78.57	−28.11	65.75	71.51	113	j29g
$y_{50}y$	69.46	−41.25	49.92	64.75	130	j53g
$y_{75}y$	61.32	−52.99	35.76	63.92	146	j76g
$l_{00}c$	52.69	−65.44	20.75	68.65	162	g00b
$l_{50}c$	56.55	−45.12	−16.57	48.07	200	g34b
$c_{00}v$	59.61	−28.98	−46.22	54.56	238	g69b
$c_{50}v$	43.33	−1.54	−45.13	45.16	268	g96b
$v_{00}m$	28.39	23.63	−44.13	50.06	298	b23v
$v_{50}m$	36.9	43.84	−30.24	53.26	325	b47v
$m_{00}o$	49.58	73.93	−9.56	74.55	353	b71r
$m_{50}o$	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 $h^* = lab^*h^* = h_{lab}/360 = 0.904$ $u^*_d = b25r$ lab^*olv^*

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = v50m$ $u^*_e = b47r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

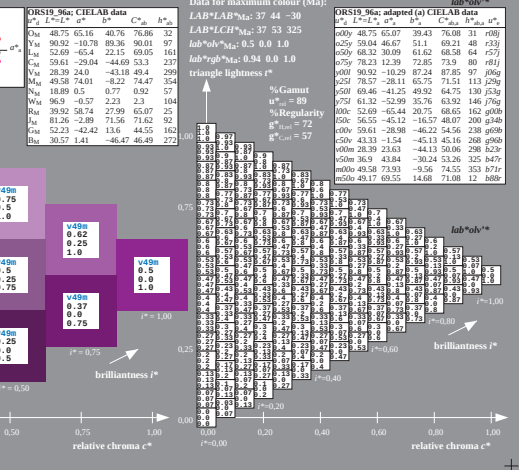
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 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; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Na}	48.75	65.16	40.76	76.86	32
Y_{Ni}	90.92	−10.78	89.36	90.01	97
L_{Mi}	52.69	−65.44	22.15	69.05	161
C_{Mi}	59.61	−29.04	−44.69	53.3	237
V_{Ni}	28.39	24.0	−43.18	49.4	299
M_{Ni}	49.58	74.01	−8.22	74.47	354
N_{Ni}	18.89	0.5	0.77	0.92	57
W_{Ni}	96.9	−0.57	2.23	2.3	104
R_{Ni}	39.92	58.74	27.99	65.07	25
I_{Ni}	81.26	−2.89	71.56	71.62	92
G_{Ni}	52.23	−42.42	13.6	44.55	162
B_{Ni}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

	$L^*=L^*$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	48.75	65.07	39.43	76.08	31	r08j
$o_{25}y$	59.04	46.67	51.1	69.21	48	r33j
$o_{50}y$	68.32	30.09	61.62	68.58	64	r57j
$o_{75}y$	78.23	12.39	72.85	73.9	80	r81j
$y_{00}y$	90.92	−10.29	87.24	87.85	97	j06g
$y_{25}y$	78.57	−28.11	65.75	71.51	113	j29g
$y_{50}y$	69.46	−41.25	49.92	64.75	130	j53g
$y_{75}y$	61.32	−52.99	35.76	63.92	146	j76g
$l_{00}c$	52.69	−65.44	20.75	68.65	162	g00b
$l_{50}c$	56.55	−45.12	−16.57	48.07	200	g34b
$c_{00}v$	59.61	−28.98	−46.22	54.56	238	g69b
$c_{50}v$	43.33	−1.54	−45.13	45.16	268	g96b
$v_{00}m$	28.39	23.63	−44.13	50.06	298	b23v
$v_{50}m$	36.9	43.84	−30.24	53.26	325	b47v
$m_{00}o$	49.58	73.93	−9.56	74.55	353	b71r
$m_{50}o$	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 $h^* = lab^*h^* = h_{lab}/360 = 0.98$ $u^*_d = b50r$ lab^*olv^*

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = m00o$ $u^*_e = b71r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

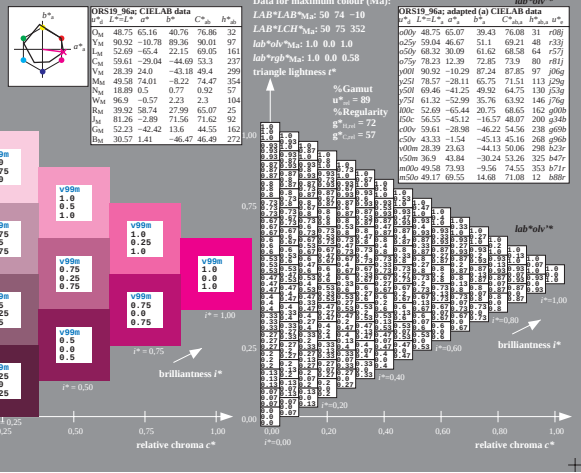
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 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; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Na}	48.75	65.16	40.76	76.86	32
Y_{Ni}	90.92	−10.78	89.36	90.01	97
L_{Mi}	52.69	−65.44	22.15	69.05	161
C_{Mi}	59.61	−29.04	−44.69	53.3	237
V_{Ni}	28.39	24.0	−43.18	49.4	299
M_{Ni}	49.58	74.01	−8.22	74.47	354
N_{Ni}	18.89	0.5	0.77	0.92	57
W_{Ni}	96.9	−0.57	2.23	2.3	104
R_{Ni}	39.92	58.74	27.99	65.07	25
I_{Ni}	81.26	−2.89	71.56	71.62	92
G_{Ni}	52.23	−42.42	13.6	44.55	162
B_{Ni}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

	$L^*=L^*$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	48.75	65.07	39.43	76.08	31	r08j
$o_{25}y$	59.04	46.67	51.1	69.21	48	r33j
$o_{50}y$	68.32	30.09	61.62	68.58	64	r57j
$o_{75}y$	78.23	12.39	72.85	73.9	80	r81j
$y_{00}y$	90.92	−10.29	87.24	87.85	97	j06g
$y_{25}y$	78.57	−28.11	65.75	71.51	113	j29g
$y_{50}y$	69.46	−41.25	49.92	64.75	130	j53g
$y_{75}y$	61.32	−52.99	35.76	63.92	146	j76g
$l_{00}c$	52.69	−65.44	20.75	68.65	162	g00b
$l_{50}c$	56.55	−45.12	−16.57	48.07	200	g34b
$c_{00}v$	59.61	−28.98	−46.22	54.56	238	g69b
$c_{50}v$	43.33	−1.54	−45.13	45.16	268	g96b
$v_{00}m$	28.39	23.63	−44.13	50.06	298	b23v
$v_{50}m$	36.9	43.84	−30.24	53.26	325	b47v
$m_{00}o$	49.58	73.93	−9.56	74.55	353	b71r
$m_{50}o$	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 $h^* = lab^*h^* = h_{lab}/360 = 0.033$ $u^*_d = b75r$ lab^*olv^*

data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = m50o$ $u^*_e = b88r$

contrast reduction factor: $c_R = 1.0$

triangle lightness t^*

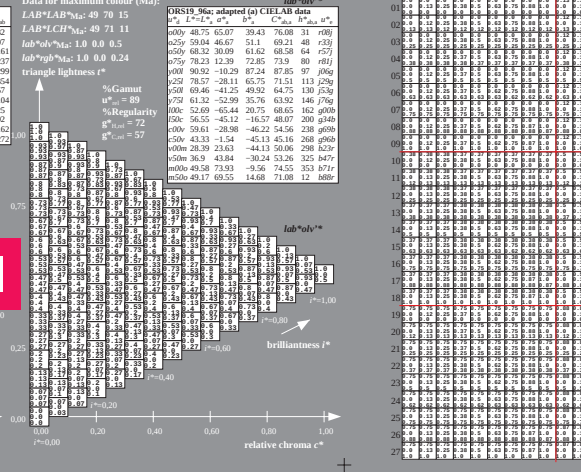
Data for maximum colour (Ma):

$LAB^*LAB^*_{Ma}$: 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

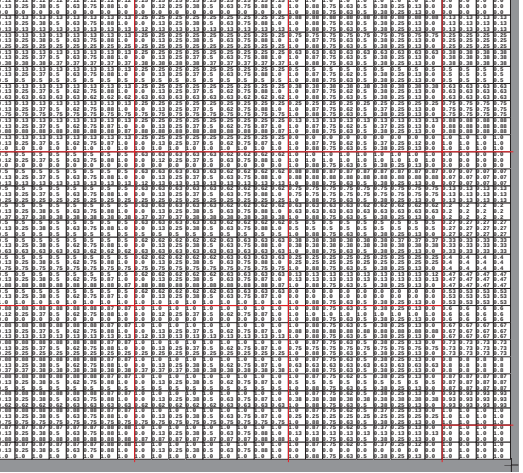


ORS19_96a; CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Na}	48.75	65.16	40.76	76.86	32
Y_{Ni}	90.92	−10.78	89.36	90.01	97
L_{Mi}	52.69	−65.44	22.15	69.05	161
C_{Mi}	59.61	−29.04	−44.69	53.3	237
V_{Ni}	28.39	24.0	−43.18	49.4	299
M_{Ni}	49.58	74.01	−8.22	74.47	354
N_{Ni}	18.89	0.5	0.77	0.92	57
W_{Ni}	96.9	−0.57	2.23	2.3	104
R_{Ni}	39.92	58.74	27.99	65.07	25
I_{Ni}	81.26	−2.89	71.56	71.62	92
G_{Ni}	52.23	−42.42	13.6	44.55	162
B_{Ni}	30.57	1.41	−46.47	46.49	272

ORS19_96a; adapted (a) CIELAB data

	$L^*=L^*$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
$o_{00}y$	48.75	65.07	39.43	76.08	31	r08j
$o_{25}y$	59.04	46.67	51.1	69.21	48	r33j
$o_{50}y$	68.32	30.09	61.62	68.58	64	r57j
$o_{75}y$	78.23	12.39	72.85	73.9	80	r81j
$y_{00}y$	90.92	−10.29	87.24	87.85	97	j06g
$y_{25}y$	78.57	−28.11	65.75	71.51	113	j29g
$y_{50}y$	69.46	−41.25	49.92	64.75	130	j53g
$y_{75}y$	61.32	−52.99	35.76	63.92	146	j76g
$l_{00}c$	52.69	−65.44	20.75	68.65	162	g00b
$l_{50}c$	56.55	−45.12	−16.57	48.07	200	g34b
$c_{00}v$	59.61	−28.98	−46.22	54.56	238	g69b
$c_{50}v$	43.33	−1.54	−45.13	45.16	268	g96b
$v_{00}m$	28.39	23.63	−44.13	50.06	298	b23v
$v_{50}m$	36.9	43.84	−30.24	53.26	325	b47v
$m_{00}o$	49.58	73.93	−9.56	74.55	353	b71r
$m_{50}o$	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 $h^* = lab^*h^* = h_{ab}/360 = 0.451$ $u^*_d = g00b$

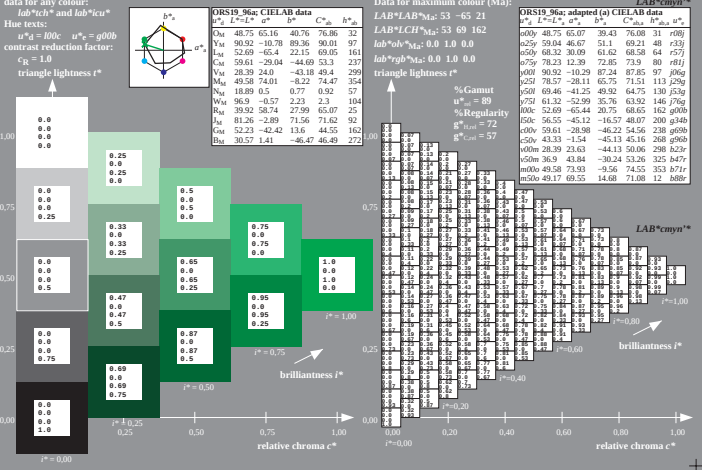
data for any colour: lab^*ch^* and lab^*icu^*

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; CIELAB data

	L^*	C^*	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Ma}	48.75	65.16	40.76	76.86	32	
Y_{Ma}	90.92	−10.78	89.36	90.01	97	
L_{Ma}	52.69	−65.44	22.15	69.05	161	
C_{Ma}	59.61	−29.04	−44.69	53.3	237	
V_{Ma}	28.39	24.0	−43.18	49.4	299	
M_{Ma}	49.58	74.01	−8.22	74.47	354	
N_{Ma}	18.89	0.5	0.77	0.92	57	
W_{Ma}	96.9	−0.57	2.23	2.3	104	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

ORS19_96a; adapted (a) CIELAB data

	L^*	C^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
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	
c00c	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	b23v	
v50m	36.9	43.84	−30.24	53.26	325	b47v	
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 $h^* = lab^*h^* = h_{ab}/360 = 0.556$ $u^*_d = g25b$

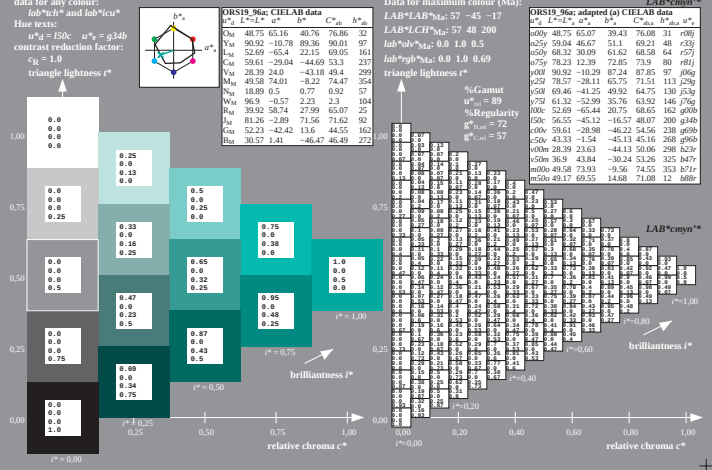
data for any colour: lab^*ch^* and lab^*icu^*

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; CIELAB data

	L^*	C^*	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Ma}	48.75	65.16	40.76	76.86	32	
Y_{Ma}	90.92	−10.78	89.36	90.01	97	
L_{Ma}	52.69	−65.44	22.15	69.05	161	
C_{Ma}	59.61	−29.04	−44.69	53.3	237	
V_{Ma}	28.39	24.0	−43.18	49.4	299	
M_{Ma}	49.58	74.01	−8.22	74.47	354	
N_{Ma}	18.89	0.5	0.77	0.92	57	
W_{Ma}	96.9	−0.57	2.23	2.3	104	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

ORS19_96a; adapted (a) CIELAB data

	L^*	C^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
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	
c00c	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	b23v	
v50m	36.9	43.84	−30.24	53.26	325	b47v	
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 $h^* = lab^*h^* = h_{ab}/360 = 0.661$ $u^*_d = g50b$

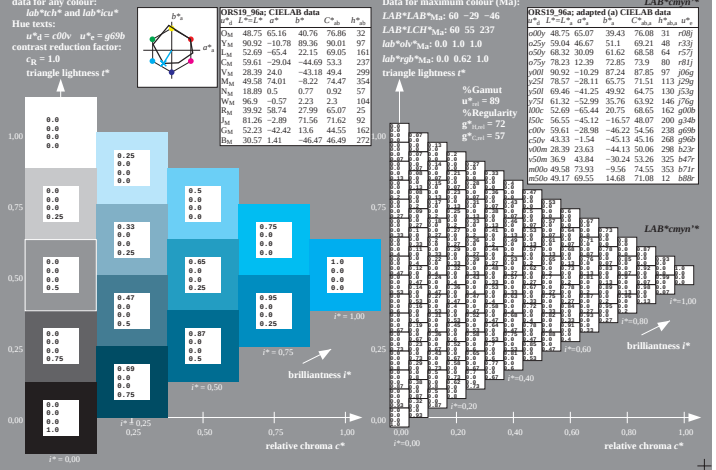
data for any colour: lab^*ch^* and lab^*icu^*

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; CIELAB data

	L^*	C^*	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Ma}	48.75	65.16	40.76	76.86	32	
Y_{Ma}	90.92	−10.78	89.36	90.01	97	
L_{Ma}	52.69	−65.44	22.15	69.05	161	
C_{Ma}	59.61	−29.04	−44.69	53.3	237	
V_{Ma}	28.39	24.0	−43.18	49.4	299	
M_{Ma}	49.58	74.01	−8.22	74.47	354	
N_{Ma}	18.89	0.5	0.77	0.92	57	
W_{Ma}	96.9	−0.57	2.23	2.3	104	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

ORS19_96a; adapted (a) CIELAB data

	L^*	C^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
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	
c00c	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	b23v	
v50m	36.9	43.84	−30.24	53.26	325	b47v	
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 $h^* = lab^*h^* = h_{ab}/360 = 0.745$ $u^*_d = g75b$

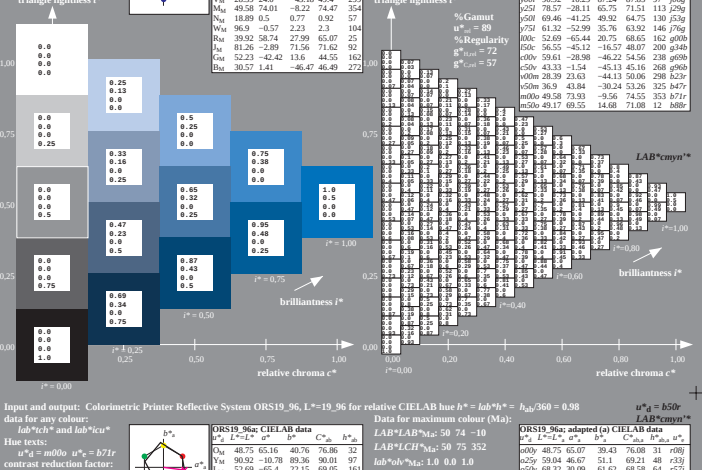
data for any colour: lab^*ch^* and lab^*icu^*

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; CIELAB data

	L^*	C^*	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Ma}	48.75	65.16	40.76	76.86	32	
Y_{Ma}	90.92	−10.78	89.36	90.01	97	
L_{Ma}	52.69	−65.44	22.15	69.05	161	
C_{Ma}	59.61	−29.04	−44.69	53.3	237	
V_{Ma}	28.39	24.0	−43.18	49.4	299	
M_{Ma}	49.58	74.01	−8.22	74.47	354	
N_{Ma}	18.89	0.5	0.77	0.92	57	
W_{Ma}	96.9	−0.57	2.23	2.3	104	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

ORS19_96a; adapted (a) CIELAB data

	L^*	C^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
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	
c00c	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	b23v	
v50m	36.9	43.84	−30.24	53.26	325	b47v	
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 $h^* = lab^*h^* = h_{ab}/360 = 0.828$ $u^*_d = b00r$

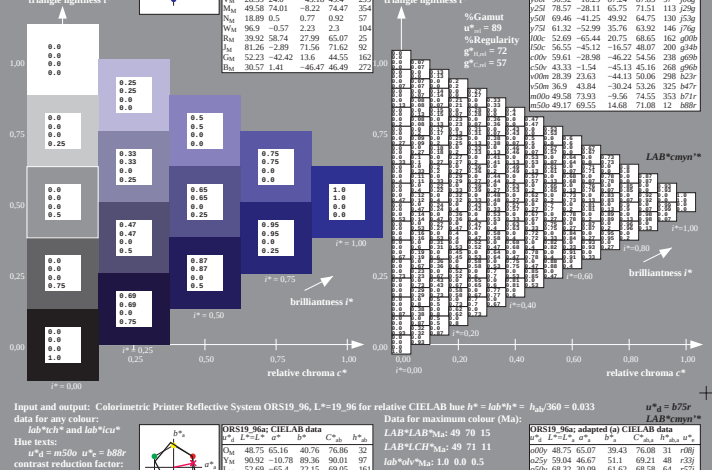
data for any colour: lab^*ch^* and lab^*icu^*

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; CIELAB data

	L^*	C^*	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Ma}	48.75	65.16	40.76	76.86	32	
Y_{Ma}	90.92	−10.78	89.36	90.01	97	
L_{Ma}	52.69	−65.44	22.15	69.05	161	
C_{Ma}	59.61	−29.04	−44.69	53.3	237	
V_{Ma}	28.39	24.0	−43.18	49.4	299	
M_{Ma}	49.58	74.01	−8.22	74.47	354	
N_{Ma}	18.89	0.5	0.77	0.92	57	
W_{Ma}	96.9	−0.57	2.23	2.3	104	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

ORS19_96a; adapted (a) CIELAB data

	L^*	C^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
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	
c00c	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	b23v	
v50m	36.9	43.84	−30.24	53.26	325	b47v	
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 $h^* = lab^*h^* = h_{ab}/360 = 0.904$ $u^*_d = b25r$

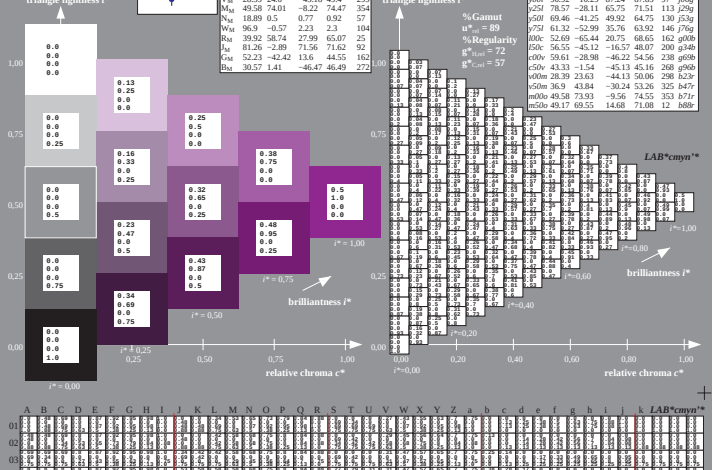
data for any colour: lab^*ch^* and lab^*icu^*

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; CIELAB data

	L^*	C^*	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Ma}	48.75	65.16	40.76	76.86	32	
Y_{Ma}	90.92	−10.78	89.36	90.01	97	
L_{Ma}	52.69	−65.44	22.15	69.05	161	
C_{Ma}	59.61	−29.04	−44.69	53.3	237	
V_{Ma}	28.39	24.0	−43.18	49.4	299	
M_{Ma}	49.58	74.01	−8.22	74.47	354	
N_{Ma}	18.89	0.5	0.77	0.92	57	
W_{Ma}	96.9	−0.57	2.23	2.3	104	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

ORS19_96a; adapted (a) CIELAB data

	L^*	C^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
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	
c00c	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	b23v	
v50m	36.9	43.84	−30.24	53.26	325	b47v	
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 $h^* = lab^*h^* = h_{ab}/360 = 0.98$ $u^*_d = b50r$

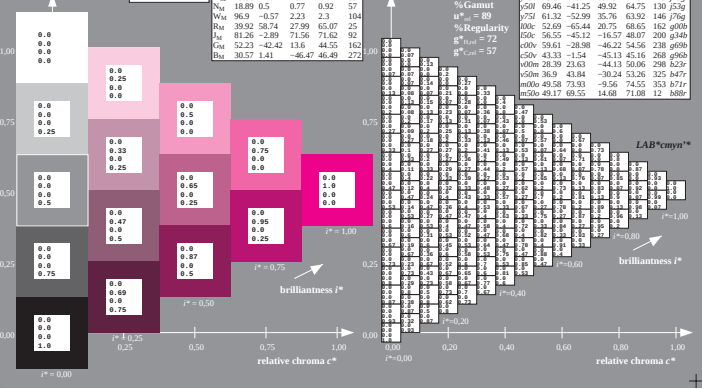
data for any colour: lab^*ch^* and lab^*icu^*

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; CIELAB data

	L^*	C^*	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Ma}	48.75	65.16	40.76	76.86	32	
Y_{Ma}	90.92	−10.78	89.36	90.01	97	
L_{Ma}	52.69	−65.44	22.15	69.05	161	
C_{Ma}	59.61	−29.04	−44.69	53.3	237	
V_{Ma}	28.39	24.0	−43.18	49.4	299	
M_{Ma}	49.58	74.01	−8.22	74.47	354	
N_{Ma}	18.89	0.5	0.77	0.92	57	
W_{Ma}	96.9	−0.57	2.23	2.3	104	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

ORS19_96a; adapted (a) CIELAB data

	L^*	C^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
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	
c00c	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	b23v	
v50m	36.9	43.84	−30.24	53.26	325	b47v	
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 $h^* = lab^*h^* = h_{ab}/360 = 0.033$ $u^*_d = b75r$

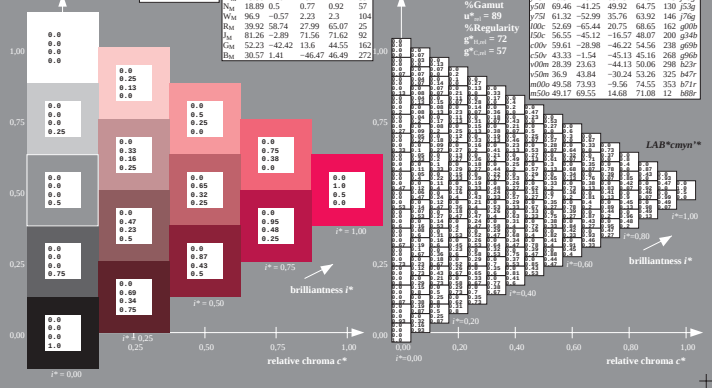
data for any colour: lab^*ch^* and lab^*icu^*

Hue texts: $u^*_d = m50o$ $u^*_e = b88r$

contrast reduction factor: $c_R = 1.0$

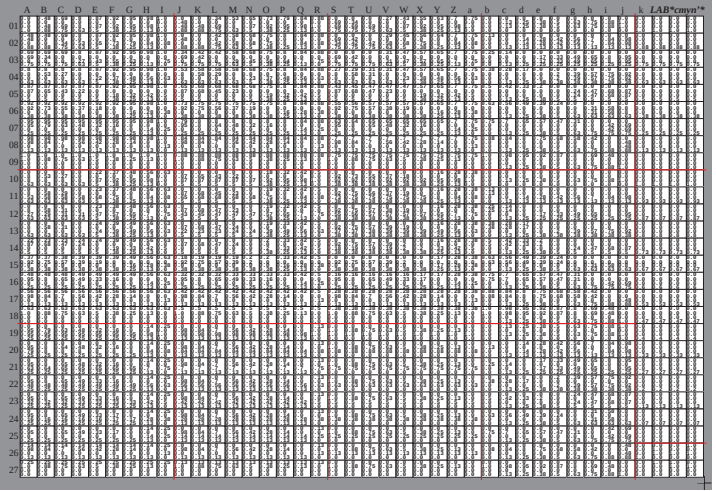
triangle lightness t^*

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; CIELAB data

	L^*	C^*	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Ma}	48.75	65.16	40.76	76.86	32	
Y_{Ma}	90.92	−10.78	89.36	90.01	97	
L_{Ma}	52.69	−65.44	22.15	69.05	161	
C_{Ma}	59.61	−29.04	−44.69	53.3	237	
V_{Ma}	28.39	24.0	−43.18	49.4	299	
M_{Ma}	49.58	74.01	−8.22	74.47	354	
N_{Ma}	18.89	0.5	0.77	0.92	57	
W_{Ma}	96.9	−0.57	2.23	2.3	104	
R_{Ma}	39.92	58.74	27.99	65.07	25	
J_{Ma}	81.26	−2.89	71.56	71.62	92	
G_{Ma}	52.23	−42.42	13.6	44.55	162	
B_{Ma}	30.57	1.41	−46.47	46.49	272	

ORS19_96a; adapted (a) CIELAB data

	L^*	C^*	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
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	
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c50v	43.33	−1.54	−45.13	45.16	268	g96b	
v00m	28.39	23.63	−44.13	50.06	298	b23v	
v50m	36.9	43.84	−30.24	53.26	325	b47v	
m00o	49.58	73.93	−9.56	74.55	353	b71r	
m50o	49.17	69.55	14.68	71.08	12	b88r