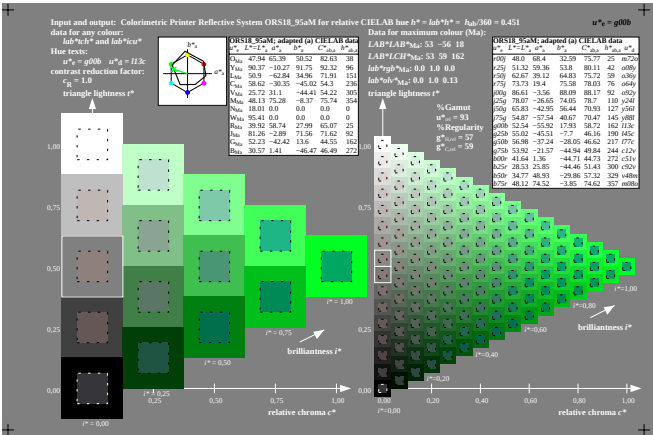
Input and output: Colorimetric Printer Reflective System ORS18_95aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.451$ $u^*_e = g00b$

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

Hue texts: $u^*_e = g00b$ $u^*_d = l13c$

contrast reduction factor: $\varepsilon_R = 1.0$

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 53 −56 18 $LAB^*LCH^*_{Ma}$: 53 59 162 $lab^*rgb^*_{Ma}$: 0.0 1.0 0.0 $lab^*uv^*_{Ma}$: 0.0 1.0 0.13



ORS18_95aM, adapted (a) CIELAB data						
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
O_{Ma}	47.94	65.39	50.52	82.63	38	
Y_{Ma}	90.37	−10.27	91.75	92.32	96	
L_{Ma}	50.9	−62.84	34.96	71.91	151	
C_{Ma}	58.62	−30.35	−45.02	54.3	236	
M_{Ma}	25.72	31.1	−44.41	54.22	305	
M_{Ma}	48.13	75.28	−8.37	75.74	354	
N_{Ma}	18.01	0.0	0.0	0.0	0	
W_{Ma}	95.41	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
B_{Ma}	81.26	−2.89	71.56	71.62	92	
C_{Ma}	52.23	−42.42	13.6	44.55	162	
D_{Ma}	30.57	1.41	−46.47	46.49	272	
r00	48.0	68.4	32.59	75.77	25	m72a
r25	51.32	59.36	53.8	80.11	42	o08y
r50	62.67	39.12	64.83	75.72	59	o36y
r75	73.73	19.4	75.58	78.03	76	o64y
y00	86.61	−3.56	88.09	88.17	92	o92y
y25	78.07	−26.65	74.05	78.7	110	y24l
y50	65.83	−42.95	56.44	70.93	127	y56l
y75	54.87	−57.54	40.67	70.47	145	y88l
g00b	52.54	−55.92	17.93	58.72	162	l13c
g25b	55.02	−45.51	−7.7	46.16	190	l45c
g50b	56.98	−37.24	−28.05	46.62	217	l77c
g75b	53.92	−21.57	−44.94	49.84	244	c12v
b00r	41.64	1.36	−44.71	44.73	272	c51v
b25r	28.53	25.85	−44.46	51.43	300	c92v
b50r	34.77	48.93	−29.86	57.32	329	v48m
b75r	48.12	74.52	−3.85	74.62	357	m08u

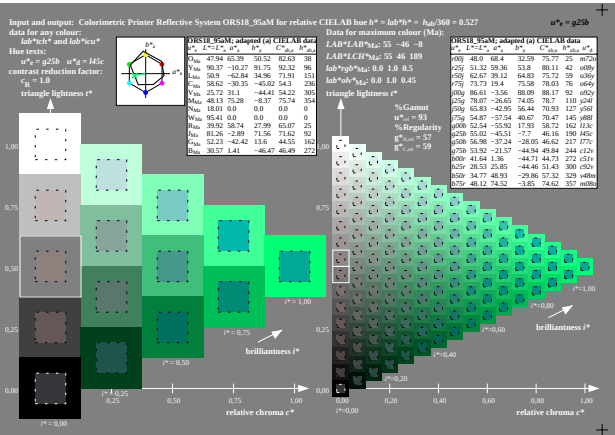
Input and output: Colorimetric Printer Reflective System ORS18_95aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.527$ $u^*_e = g25b$

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

Hue texts: $u^*_e = g25b$ $u^*_d = l45c$

contrast reduction factor: $\varepsilon_R = 1.0$

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 55 −46 −8 $LAB^*LCH^*_{Ma}$: 55 46 189 $lab^*rgb^*_{Ma}$: 0.0 1.0 0.5 $lab^*uv^*_{Ma}$: 0.0 1.0 0.45



ORS18_95aM, adapted (a) CIELAB data						
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
O_{Ma}	47.94	65.39	50.52	82.63	38	
Y_{Ma}	90.37	−10.27	91.75	92.32	96	
L_{Ma}	50.9	−62.84	34.96	71.91	151	
C_{Ma}	58.62	−30.35	−45.02	54.3	236	
M_{Ma}	25.72	31.1	−44.41	54.22	305	
M_{Ma}	48.13	75.28	−8.37	75.74	354	
N_{Ma}	18.01	0.0	0.0	0.0	0	
W_{Ma}	95.41	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
B_{Ma}	81.26	−2.89	71.56	71.62	92	
C_{Ma}	52.23	−42.42	13.6	44.55	162	
D_{Ma}	30.57	1.41	−46.47	46.49	272	
r00	48.0	68.4	32.59	75.77	25	m72a
r25	51.32	59.36	53.8	80.11	42	o08y
r50	62.67	39.12	64.83	75.72	59	o36y
r75	73.73	19.4	75.58	78.03	76	o64y
y00	86.61	−3.56	88.09	88.17	92	o92y
y25	78.07	−26.65	74.05	78.7	110	y24l
y50	65.83	−42.95	56.44	70.93	127	y56l
y75	54.87	−57.54	40.67	70.47	145	y88l
g00b	52.54	−55.92	17.93	58.72	162	l13c
g25b	55.02	−45.51	−7.7	46.16	190	l45c
g50b	56.98	−37.24	−28.05	46.62	217	l77c
g75b	53.92	−21.57	−44.94	49.84	244	c12v
b00r	41.64	1.36	−44.71	44.73	272	c51v
b25r	28.53	25.85	−44.46	51.43	300	c92v
b50r	34.77	48.93	−29.86	57.32	329	v48m
b75r	48.12	74.52	−3.85	74.62	357	m08u

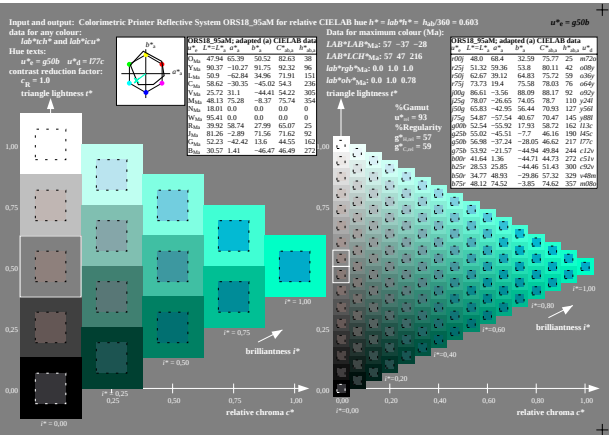
Input and output: Colorimetric Printer Reflective System ORS18_95aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.603$ $u^*_e = g50b$

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

Hue texts: $u^*_e = g50b$ $u^*_d = l77c$

contrast reduction factor: $\varepsilon_R = 1.0$

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 57 −37 −28 $LAB^*LCH^*_{Ma}$: 57 47 216 $lab^*rgb^*_{Ma}$: 0.0 1.0 1.0 $lab^*uv^*_{Ma}$: 0.0 1.0 0.78



ORS18_95aM, adapted (a) CIELAB data						
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
O_{Ma}	47.94	65.39	50.52	82.63	38	
Y_{Ma}	90.37	−10.27	91.75	92.32	96	
L_{Ma}	50.9	−62.84	34.96	71.91	151	
C_{Ma}	58.62	−30.35	−45.02	54.3	236	
M_{Ma}	25.72	31.1	−44.41	54.22	305	
M_{Ma}	48.13	75.28	−8.37	75.74	354	
N_{Ma}	18.01	0.0	0.0	0.0	0	
W_{Ma}	95.41	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
B_{Ma}	81.26	−2.89	71.56	71.62	92	
C_{Ma}	52.23	−42.42	13.6	44.55	162	
D_{Ma}	30.57	1.41	−46.47	46.49	272	
r00	48.0	68.4	32.59	75.77	25	m72a
r25	51.32	59.36	53.8	80.11	42	o08y
r50	62.67	39.12	64.83	75.72	59	o36y
r75	73.73	19.4	75.58	78.03	76	o64y
y00	86.61	−3.56	88.09	88.17	92	o92y
y25	78.07	−26.65	74.05	78.7	110	y24l
y50	65.83	−42.95	56.44	70.93	127	y56l
y75	54.87	−57.54	40.67	70.47	145	y88l
g00b	52.54	−55.92	17.93	58.72	162	l13c
g25b	55.02	−45.51	−7.7	46.16	190	l45c
g50b	56.98	−37.24	−28.05	46.62	217	l77c
g75b	53.92	−21.57	−44.94	49.84	244	c12v
b00r	41.64	1.36	−44.71	44.73	272	c51v
b25r	28.53	25.85	−44.46	51.43	300	c92v
b50r	34.77	48.93	−29.86	57.32	329	v48m
b75r	48.12	74.52	−3.85	74.62	357	m08u

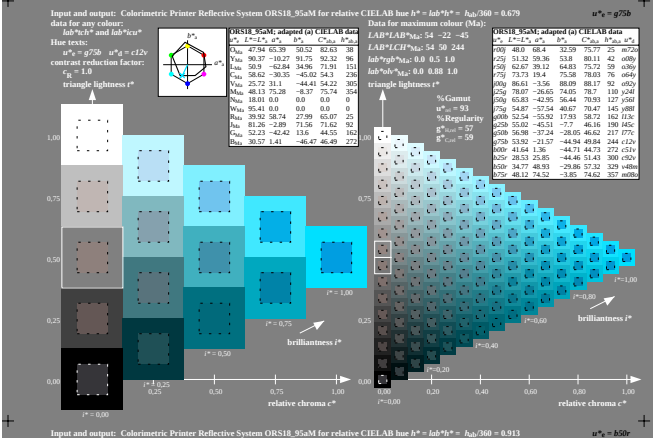
Input and output: Colorimetric Printer Reflective System ORS18_95aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.679$ $u^*_e = g75b$

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

Hue texts: $u^*_e = g75b$ $u^*_d = c12v$

contrast reduction factor: $\varepsilon_R = 1.0$

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 54 −22 −45 $LAB^*LCH^*_{Ma}$: 54 50 244 $lab^*rgb^*_{Ma}$: 0.0 0.5 1.0 $lab^*uv^*_{Ma}$: 0.0 0.88 1.0



ORS18_95aM, adapted (a) CIELAB data						
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
O_{Ma}	47.94	65.39	50.52	82.63	38	
Y_{Ma}	90.37	−10.27	91.75	92.32	96	
L_{Ma}	50.9	−62.84	34.96	71.91	151	
C_{Ma}	58.62	−30.35	−45.02	54.3	236	
M_{Ma}	25.72	31.1	−44.41	54.22	305	
M_{Ma}	48.13	75.28	−8.37	75.74	354	
N_{Ma}	18.01	0.0	0.0	0.0	0	
W_{Ma}	95.41	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
B_{Ma}	81.26	−2.89	71.56	71.62	92	
C_{Ma}	52.23	−42.42	13.6	44.55	162	
D_{Ma}	30.57	1.41	−46.47	46.49	272	
r00	48.0	68.4	32.59	75.77	25	m72a
r25	51.32	59.36	53.8	80.11	42	o08y
r50	62.67	39.12	64.83	75.72	59	o36y
r75	73.73	19.4	75.58	78.03	76	o64y
y00	86.61	−3.56	88.09	88.17	92	o92y
y25	78.07	−26.65	74.05	78.7	110	y24l
y50	65.83	−42.95	56.44	70.93	127	y56l
y75	54.87	−57.54	40.67	70.47	145	y88l
g00b	52.54	−55.92	17.93	58.72	162	l13c
g25b	55.02	−45.51	−7.7	46.16	190	l45c
g50b	56.98	−37.24	−28.05	46.62	217	l77c
g75b	53.92	−21.57	−44.94	49.84	244	c12v
b00r	41.64	1.36	−44.71	44.73	272	c51v
b25r	28.53	25.85	−44.46	51.43	300	c92v
b50r	34.77	48.93	−29.86	57.32	329	v48m
b75r	48.12	74.52	−3.85	74.62	357	m08u

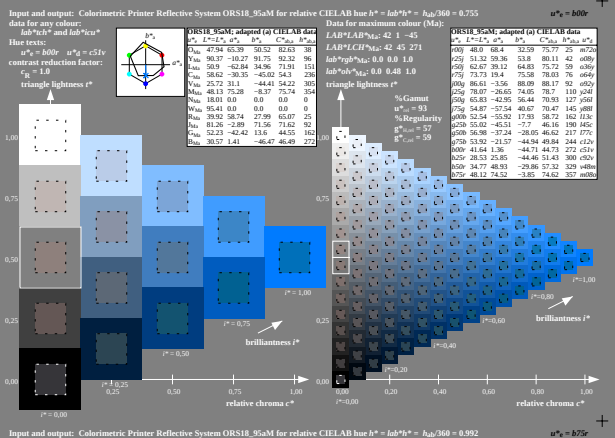
Input and output: Colorimetric Printer Reflective System ORS18_95aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.755$ $u^*_e = b00r$

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

Hue texts: $u^*_e = b00r$ $u^*_d = c51v$

contrast reduction factor: $\varepsilon_R = 1.0$

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 $lab^*uv^*_{Ma}$: 0.0 0.48 1.0



ORS18_95aM, adapted (a) CIELAB data						
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
O_{Ma}	47.94	65.39	50.52	82.63	38	
Y_{Ma}	90.37	−10.27	91.75	92.32	96	
L_{Ma}	50.9	−62.84	34.96	71.91	151	
C_{Ma}	58.62	−30.35	−45.02	54.3	236	
M_{Ma}	25.72	31.1	−44.41	54.22	305	
M_{Ma}	48.13	75.28	−8.37	75.74	354	
N_{Ma}	18.01	0.0	0.0	0.0	0	
W_{Ma}	95.41	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
B_{Ma}	81.26	−2.89	71.56	71.62	92	
C_{Ma}	52.23	−42.42	13.6	44.55	162	
D_{Ma}	30.57	1.41	−46.47	46.49	272	
r00	48.0	68.4	32.59	75.77	25	m72a
r25	51.32	59.36	53.8	80.11	42	o08y
r50	62.67	39.12	64.83	75.72	59	o36y
r75	73.73	19.4	75.58	78.03	76	o64y
y00	86.61	−3.56	88.09	88.17	92	o92y
y25	78.07	−26.65	74.05	78.7	110	y24l
y50	65.83	−42.95	56.44	70.93	127	y56l
y75	54.87	−57.54	40.67	70.47	145	y88l
g00b	52.54	−55.92	17.93	58.72	162	l13c
g25b	55.02	−45.51	−7.7	46.16	190	l45c
g50b	56.98	−37.24	−28.05	46.62	217	l77c
g75b	53.92	−21.57	−44.94	49.84	244	c12v
b00r	41.64	1.36	−44.71	44.73	272	c51v
b25r	28.53	25.85	−44.46	51.43	300	c92v
b50r	34.77	48.93	−29.86	57.32	329	v48m
b75r	48.12	74.52	−3.85	74.62	357	m08u

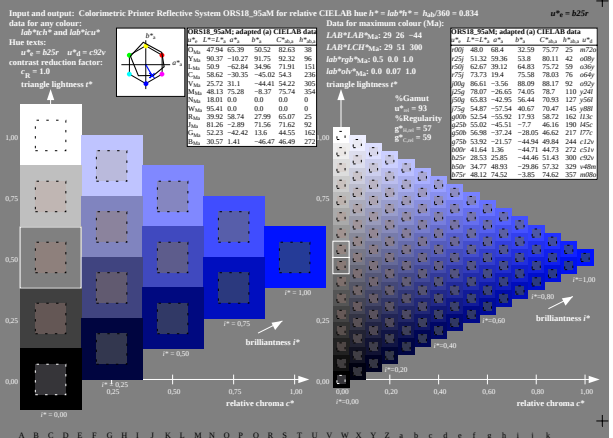
Input and output: Colorimetric Printer Reflective System ORS18_95aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.834$ $u^*_e = b25r$

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

Hue texts: $u^*_e = b25r$ $u^*_d = c92v$

contrast reduction factor: $\varepsilon_R = 1.0$

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 29 26 −44 $LAB^*LCH^*_{Ma}$: 29 51 300 $lab^*rgb^*_{Ma}$: 0.5 0.0 1.0 $lab^*uv^*_{Ma}$: 0.0 0.07 1.0



ORS18_95aM, adapted (a) CIELAB data						
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
O_{Ma}	47.94	65.39	50.52	82.63	38	
Y_{Ma}	90.37	−10.27	91.75	92.32	96	
L_{Ma}	50.9	−62.84	34.96	71.91	151	
C_{Ma}	58.62	−30.35	−45.02	54.3	236	
M_{Ma}	25.72	31.1	−44.41	54.22	305	
M_{Ma}	48.13	75.28	−8.37	75.74	354	
N_{Ma}	18.01	0.0	0.0	0.0	0	
W_{Ma}	95.41	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
B_{Ma}	81.26	−2.89	71.56	71.62	92	
C_{Ma}	52.23	−42.42	13.6	44.55	162	
D_{Ma}	30.57	1.41	−46.47	46.49	272	
r00	48.0	68.4	32.59	75.77	25	m72a
r25	51.32	59.36	53.8	80.11	42	o08y
r50	62.67	39.12	64.83	75.72	59	o36y
r75	73.73	19.4	75.58	78.03	76	o64y
y00	86.61	−3.56	88.09	88.17	92	o92y
y25	78.07	−26.65	74.05	78.7	110	y24l
y50	65.83	−42.95	56.44	70.93	127	y56l
y75	54.87	−57.54	40.67	70.47	145	y88l
g00b	52.54	−55.92	17.93	58.72	162	l13c
g25b	55.02	−45.51	−7.7	46.16	190	l45c
g50b	56.98	−37.24	−28.05	46.62	217	l77c
g75b	53.92	−21.57	−44.94	49.84	244	c12v
b00r	41.64	1.36	−44.71	44.73	272	c51v
b25r	28.53	25.85	−44.46	51.43	300	c92v
b50r	34.77	48.93	−29.86	57.32	329	v48m
b75r	48.12	74.52	−3.85	74.62	357	m08u

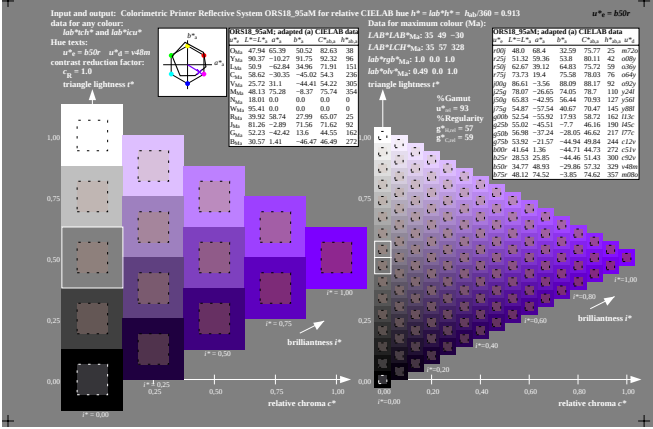
Input and output: Colorimetric Printer Reflective System ORS18_95aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.913$ $u^*_e = b50r$

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

Hue texts: $u^*_e = b50r$ $u^*_d = v48m$

contrast reduction factor: $\varepsilon_R = 1.0$

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 35 49 −30 $LAB^*LCH^*_{Ma}$: 35 57 328 $lab^*rgb^*_{Ma}$: 0.49 0.0 1.0 $lab^*uv^*_{Ma}$: 0.49 0.0 1.0



ORS18_95aM, adapted (a) CIELAB data						
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
O_{Ma}	47.94	65.39	50.52	82.63	38	
Y_{Ma}	90.37	−10.27	91.75	92.32	96	
L_{Ma}	50.9	−62.84	34.96	71.91	151	
C_{Ma}	58.62	−30.35	−45.02	54.3	236	
M_{Ma}	25.72	31.1	−44.41	54.22	305	
M_{Ma}	48.13	75.28	−8.37	75.74	354	
N_{Ma}	18.01	0.0	0.0	0.0	0	
W_{Ma}	95.41	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
B_{Ma}	81.26	−2.89	71.56	71.62	92	
C_{Ma}	52.23	−42.42	13.6	44.55	162	
D_{Ma}	30.57	1.41	−46.47	46.49	272	
r00	48.0	68.4	32.59	75.77	25	m72a
r25	51.32	59.36	53.8	80.11	42	o08y
r50	62.67	39.12	64.83	75.72	59	o36y
r75	73.73	19.4	75.58	78.03	76	o64y
y00	86.61	−3.56	88.09	88.17	92	o92y
y25	78.07	−26.65	74.05	78.7	110	y24l
y50	65.83	−42.95	56.44	70.93	127	y56l
y75	54.87	−57.54	40.67	70.47	145	y88l
g00b	52.54	−55.92	17.93	58.72	162	l13c
g25b	55.02	−45.51	−7.7	46.16	190	l45c
g50b	56.98	−37.24	−28.05	46.62	217	l77c
g75b	53.92	−21.57	−44.94	49.84	244	c12v
b00r	41.64	1.36	−44.71	44.73	272	c51v
b25r	28.53	25.85	−44.46	51.43	300	c92v
b50r	34.77	48.93	−29.86	57.32	329	v48m
b75r	48.12	74.52	−3.85	74.62	357	m08u

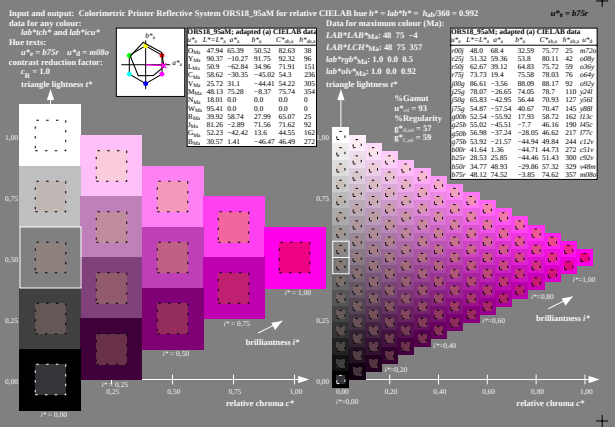
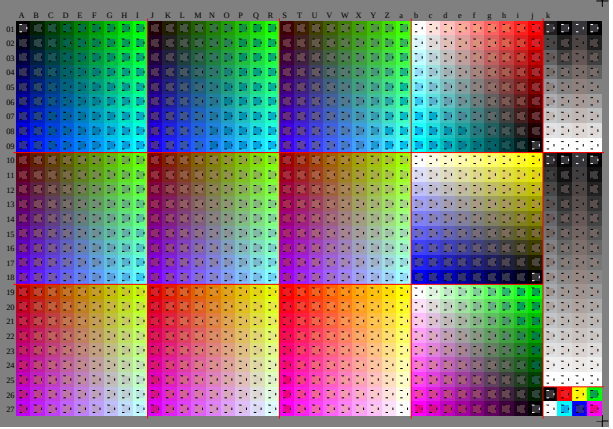
Input and output: Colorimetric Printer Reflective System ORS18_95aM for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.992$ $u^*_e = b75r$

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

Hue texts: $u^*_e = b75r$ $u^*_d = m08u$

contrast reduction factor: $\varepsilon_R = 1.0$

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 48 75 −4 $LAB^*LCH^*_{Ma}$: 48 75 357 $lab^*rgb^*_{Ma}$: 1.0 0.0 0.5 $lab^*uv^*_{Ma}$: 1.0 0.0 0.92



ORS18_95aM, adapted (a) CIELAB data						
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
O_{Ma}	47.94	65.39	50.52	82.63	38	
Y_{Ma}	90.37	−10.27	91.75	92.32	96	
L_{Ma}	50.9	−62.84	34.96	71.91	151	
C_{Ma}	58.62	−30.35	−45.02	54.3	236	
M_{Ma}	25.72	31.1	−44.41	54.22	305	
M_{Ma}	48.13	75.28	−8.37	75.74	354	
N_{Ma}	18.01	0.0	0.0	0.0	0	
W_{Ma}	95.41	0.0	0.0	0.0	0	
R_{Ma}	39.92	58.74	27.99	65.07	25	
B_{Ma}	81.26	−2.89	71.56	71.62	92	
C_{Ma}	52.23	−42.42	13.6	44.55	162	
D_{Ma}	30.57	1.41	−46.47	46.49	272	
r00	48.0	68.4	32.59	75.77	25	m72a
r25	51.32	59.36	53.8	80.11	42	o08y
r50	62.67	39.12	64.83	75.72	59	o36y
r75	73.73	19.4	75.58	78.03	76	o64y
y00	86.61	−3.56	88.09	88.17	92	o92y
y25	78.07	−26.65	74.05	78.7	110	y24l
y50	65.83	−42.95	56.44	70.93	127	y56l
y75	54.87	−57.54	40.67	70.47	145	y88l
g00b	52.54	−55.92	17.93	58.72	162	l13c
g25b	55.02	−45.51	−7.7	46.16	190	l45c
g50b	56.98	−37.24	−28.05	46.62	217	l77c
g75b	53.92	−21.57	−44.94	49.84	244	c12v
b00r	41.64	1.36	−44.71	44.73	272	c51v
b25r	28.53	25.85	−44.46	51.43	300	c92v
b50r	34.77	48.93	−29.86	57.32	329	v48m
b75r	48.12	74.52	−3.85	74.62	357	m08u