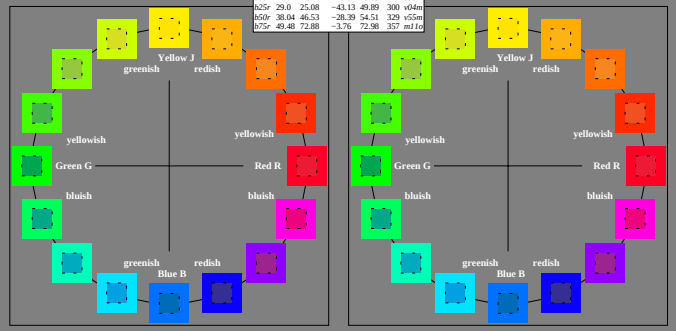
Input and output: Colorimetric Printer Reflective System ORS19_96a
data for any colour:
u^*_e and number *no.* = 00 .. 15
elementary hue text:
u^*_e = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
ϵ_R = 1.0

ORS19_96a: adapted (a) CIELAB data						
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

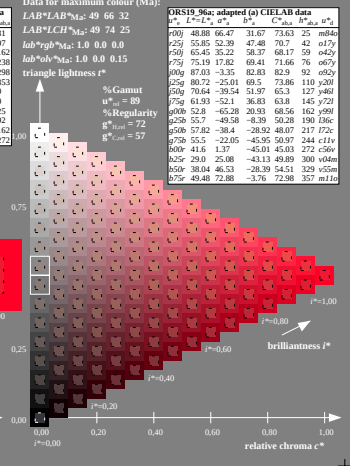
%Gamut
$u^*_{e,i}$ = 89
%Regularity
$g^*_{R,ei}$ = 72
$g^*_{C,ei}$ = 57

ORS19_96a: adapted (a) CIELAB data						
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O_{Ma}	48.75	65.07	39.43	76.08	31	
Y_{Ma}	90.92	−10.29	87.24	87.85	97	
L_{Ma}	52.69	−65.44	20.75	68.65	162	
C_{Ma}	59.61	−28.98	−46.22	54.56	238	
V_{Ma}	28.39	23.63	−44.13	50.06	298	
M_{Ma}	49.58	73.93	−9.56	74.55	353	
N_{Ma}	18.89	0.0	0.0	0.0	0	
W_{Ma}	96.9	0.0	0.0	0.0	0	
R_{CIE}	39.92	58.74	27.99	65.07	25	
J_{CIE}	81.26	−2.89	71.56	71.62	92	
G_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	



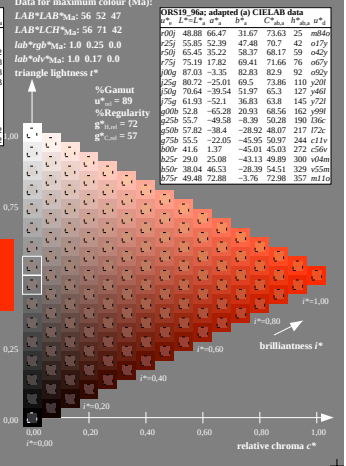
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.071$ u^*_e = *r00j*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_e = *r00j* u^*_a = *m84o*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 66 32
*LAB*LCH**$_{Ma}$: 49 74 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.15



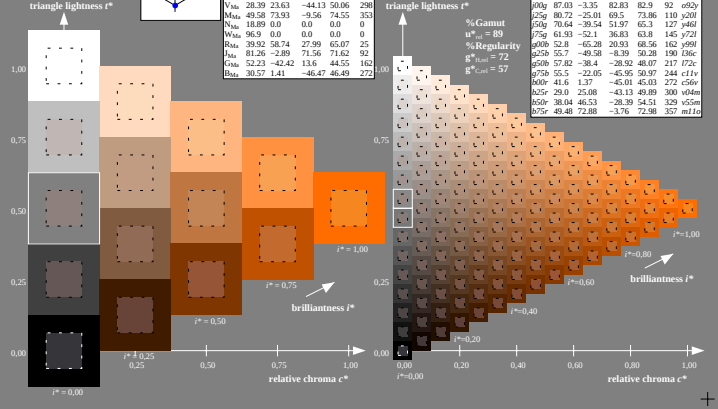
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.117$ u^*_e = *r25j*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_e = *r25j* u^*_a = *o17y*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 52 47
*LAB*LCH**$_{Ma}$: 56 71 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.17 0.0



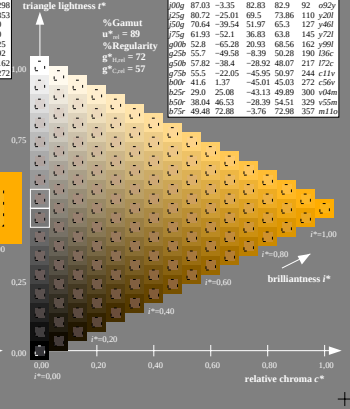
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.164$ u^*_e = *r50j*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_e = *r50j* u^*_a = *o42y*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 65 35 58
*LAB*LCH**$_{Ma}$: 65 68 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.42 0.0



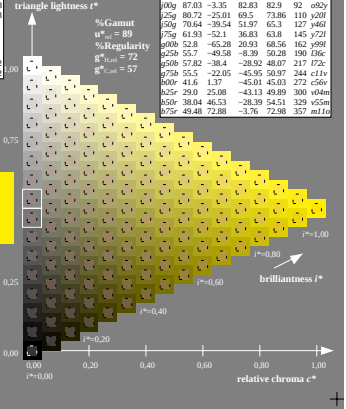
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.21$ u^*_e = *r75j*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_e = *r75j* u^*_a = *o67y*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 75 18 69
*LAB*LCH**$_{Ma}$: 75 72 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.68 0.0



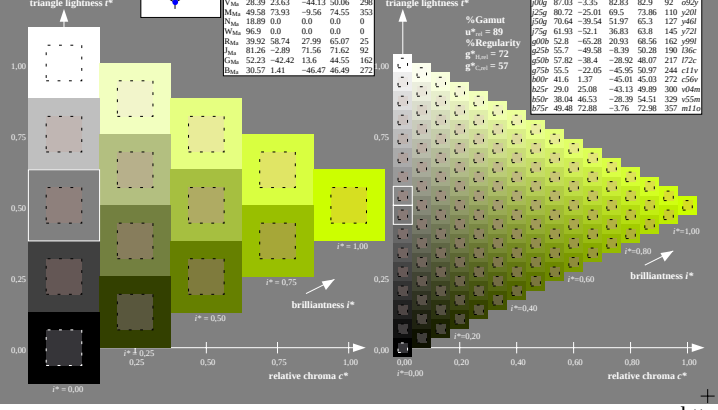
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.256$ u^*_e = *j00g*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_e = *j00g* u^*_a = *o92y*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −3 83
*LAB*LCH**$_{Ma}$: 87 83 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.93 0.0



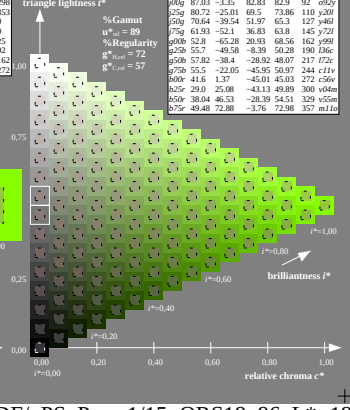
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.305$ u^*_e = *j25g*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_e = *j25g* u^*_a = *y20l*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 81 −25 69
*LAB*LCH**$_{Ma}$: 81 74 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.8 1.0 0.0



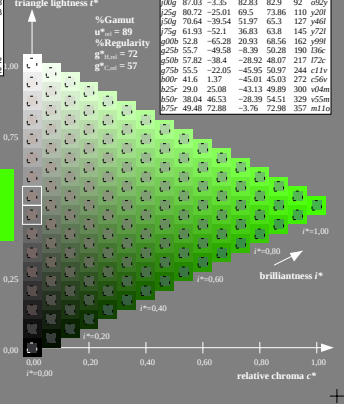
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.354$ u^*_e = *j50g*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_e = *j50g* u^*_a = *y46l*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 71 −40 52
*LAB*LCH**$_{Ma}$: 71 65 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.54 1.0 0.0



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.402$ u^*_e = *j75g*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_e = *j75g* u^*_a = *y72l*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *t**

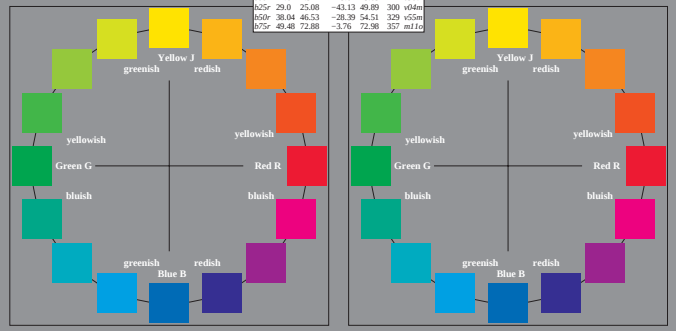
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 62 −52 37
*LAB*LCH**$_{Ma}$: 62 64 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.27 1.0 0.0



Input and output:
Colorimetric Printer Reflective System ORS19_96a
data for any colour:
u^*_e and number *no.* = 00 .. 15
elementary hue:
u^*_e = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
ϵ_R = 1.0

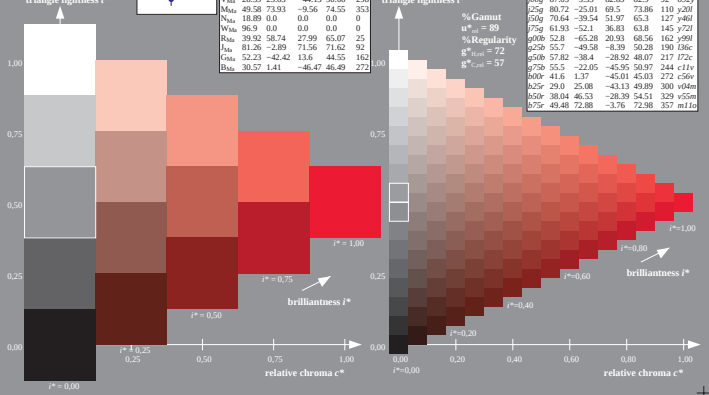
ORS19_96a; adapted (a) CIELAB data							
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a	
r00j	48.88	66.47	31.67	73.63	25	*m84o*	
r25j	55.85	52.39	47.48	70.7	42	*o17y*	
r50j	65.45	35.22	58.37	68.17	59	*o42y*	
r75j	75.19	17.82	69.41	71.66	76	*o67y*	
j00g	87.03	−3.35	82.83	82.9	92	*o92y*	
j25g	80.72	−25.01	69.5	73.86	110	*y20l*	
j50g	70.64	−39.54	51.97	65.3	127	*y46l*	
j75g	61.93	−52.1	36.83	63.8	145	*y72l*	
g00b	52.8	−65.28	20.93	68.56	162	*y99l*	
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*	
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*	
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*	
b00r	41.6	1.37	−45.01	45.03	272	*c56v*	
b25r	29.0	25.08	−43.13	49.89	300	*v04m*	
b50r	38.04	46.53	−28.39	54.51	329	*v55m*	
b75r	49.48	72.88	−3.76	72.98	357	*m11o*	

ORS19_96a; adapted (a) CIELAB data						
Name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
O_{Mn}	48.75	65.07	39.43	76.08	31	
Y_{Mn}	90.92	−10.29	87.24	87.85	97	
L_{Mn}	52.69	−65.44	20.75	68.65	162	
C_{Mn}	59.61	−28.98	−46.22	54.56	238	
V_{Mn}	28.39	23.63	−44.13	50.06	298	
M_{Mn}	49.58	73.93	−9.56	74.55	353	
N_{Mn}	18.89	0.0	0.0	0.0	0	
W_{Mn}	96.9	0.0	0.0	0.0	0	
R_{CIE}	39.92	58.74	27.99	65.07	25	
J_{CIE}	81.26	−2.89	71.56	71.62	92	
G_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	



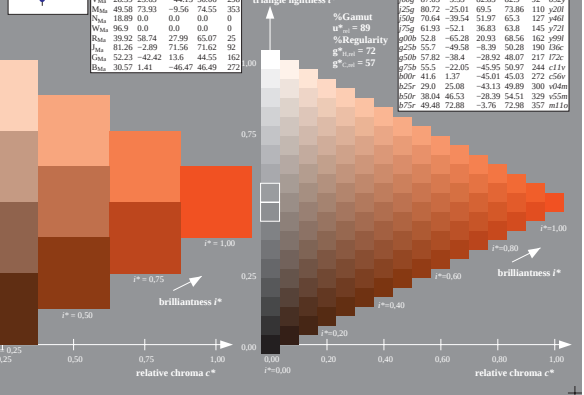
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.071$ u^*_e = *r00j*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_e = *r00j* u^*_d = *m84o*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *i**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 66 32
*LAB*LCH**$_{Ma}$: 49 74 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.15



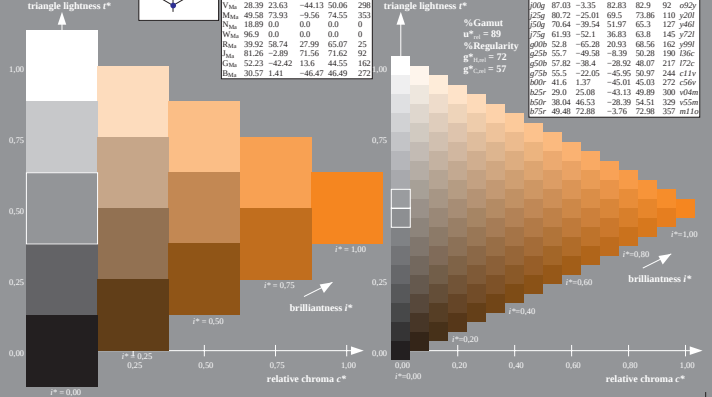
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.117$ u^*_e = *r25j*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_e = *r25j* u^*_d = *o17y*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *i**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 52 47
*LAB*LCH**$_{Ma}$: 56 71 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.17 0.0



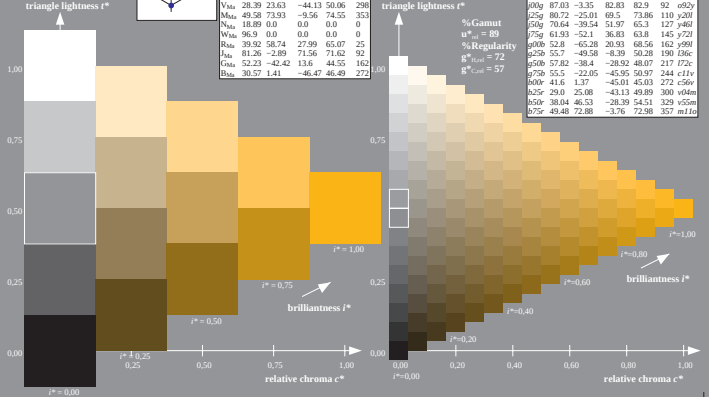
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.164$ u^*_e = *r50j*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_e = *r50j* u^*_d = *o42y*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *i**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 65 35 58
*LAB*LCH**$_{Ma}$: 65 68 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.42 0.0



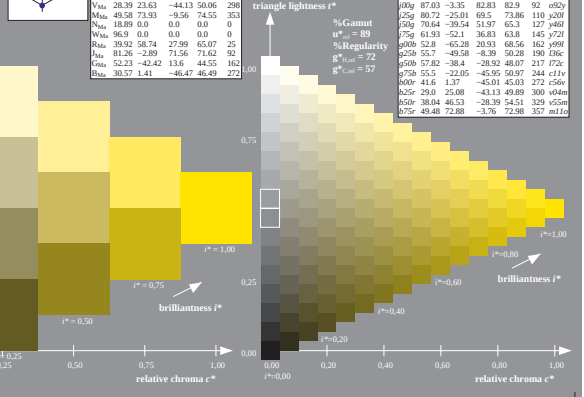
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.21$ u^*_e = *r75j*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_e = *r75j* u^*_d = *o67y*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *i**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 75 18 69
*LAB*LCH**$_{Ma}$: 75 72 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.68 0.0



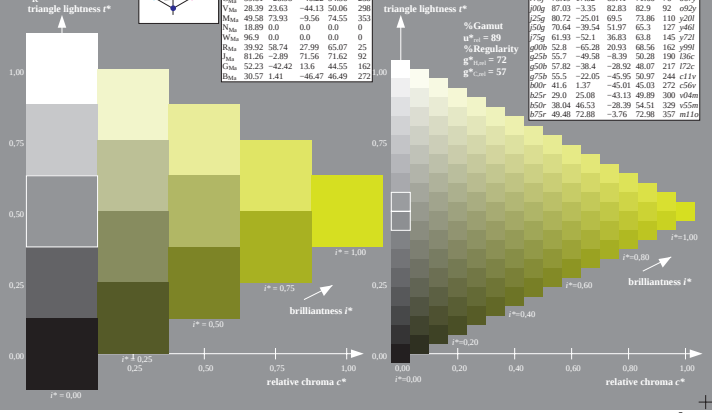
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.256$ u^*_e = *j00g*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *i**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −3 83
*LAB*LCH**$_{Ma}$: 87 83 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.93 0.0



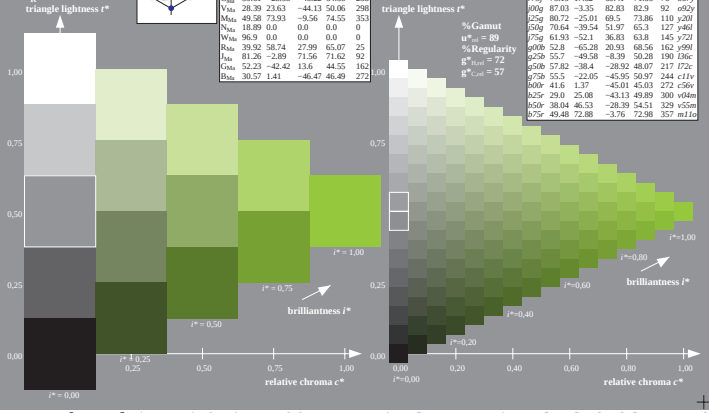
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.305$ u^*_e = *j25g*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_e = *j25g* u^*_d = *y20l*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *i**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 81 −25 69
*LAB*LCH**$_{Ma}$: 81 74 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.8 1.0 0.0



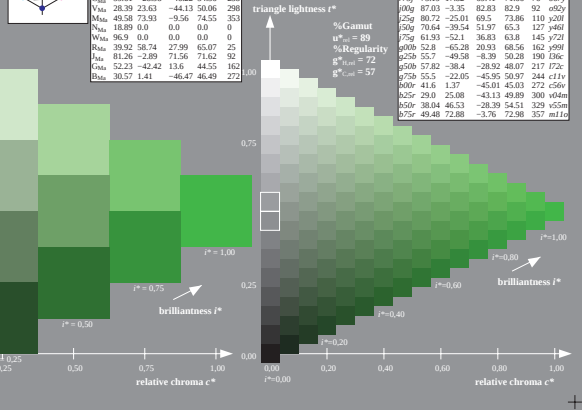
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.354$ u^*_e = *j50g*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_e = *j50g* u^*_d = *y46l*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *i**

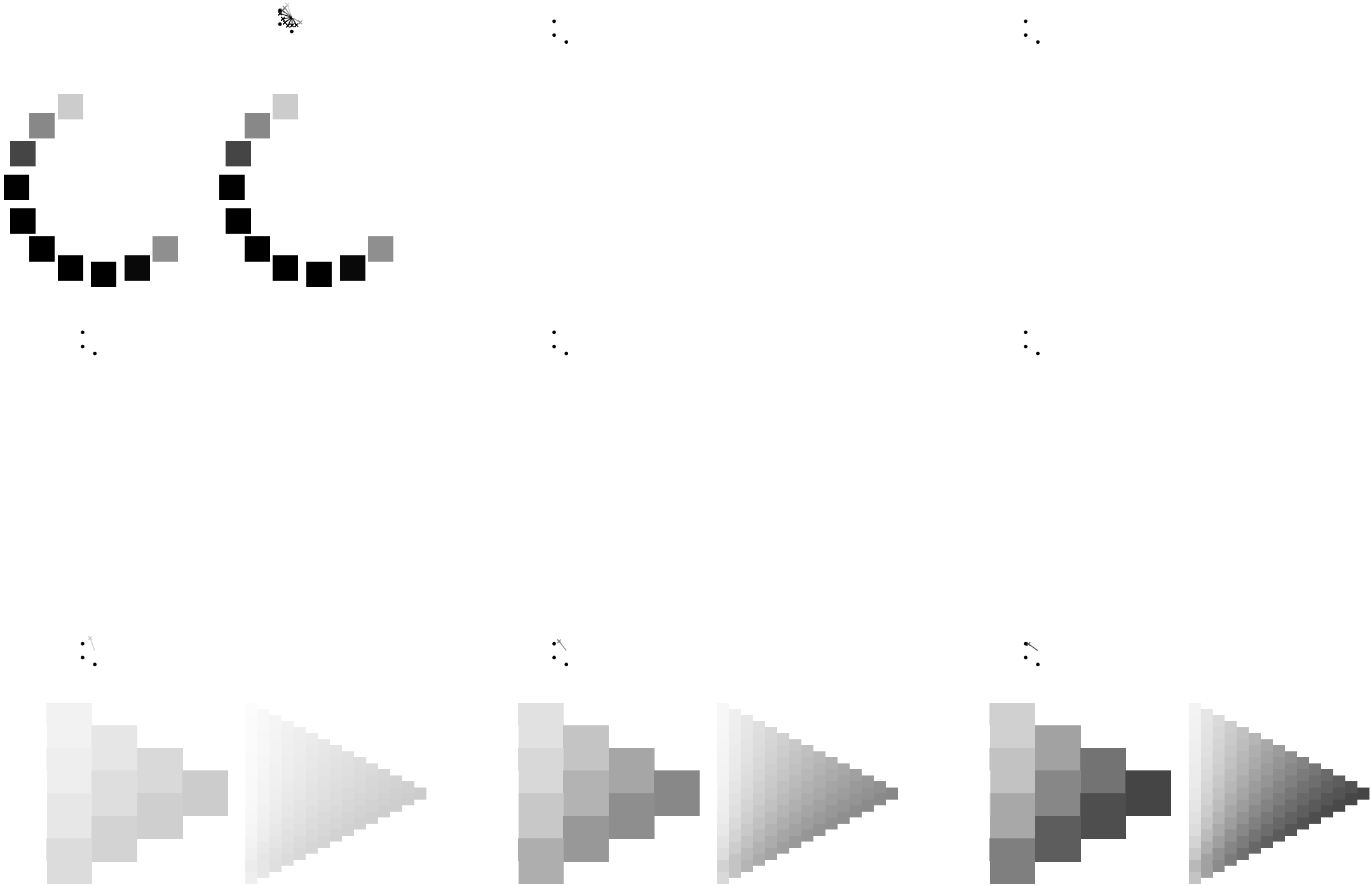
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 71 −40 52
*LAB*LCH**$_{Ma}$: 71 65 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.54 1.0 0.0

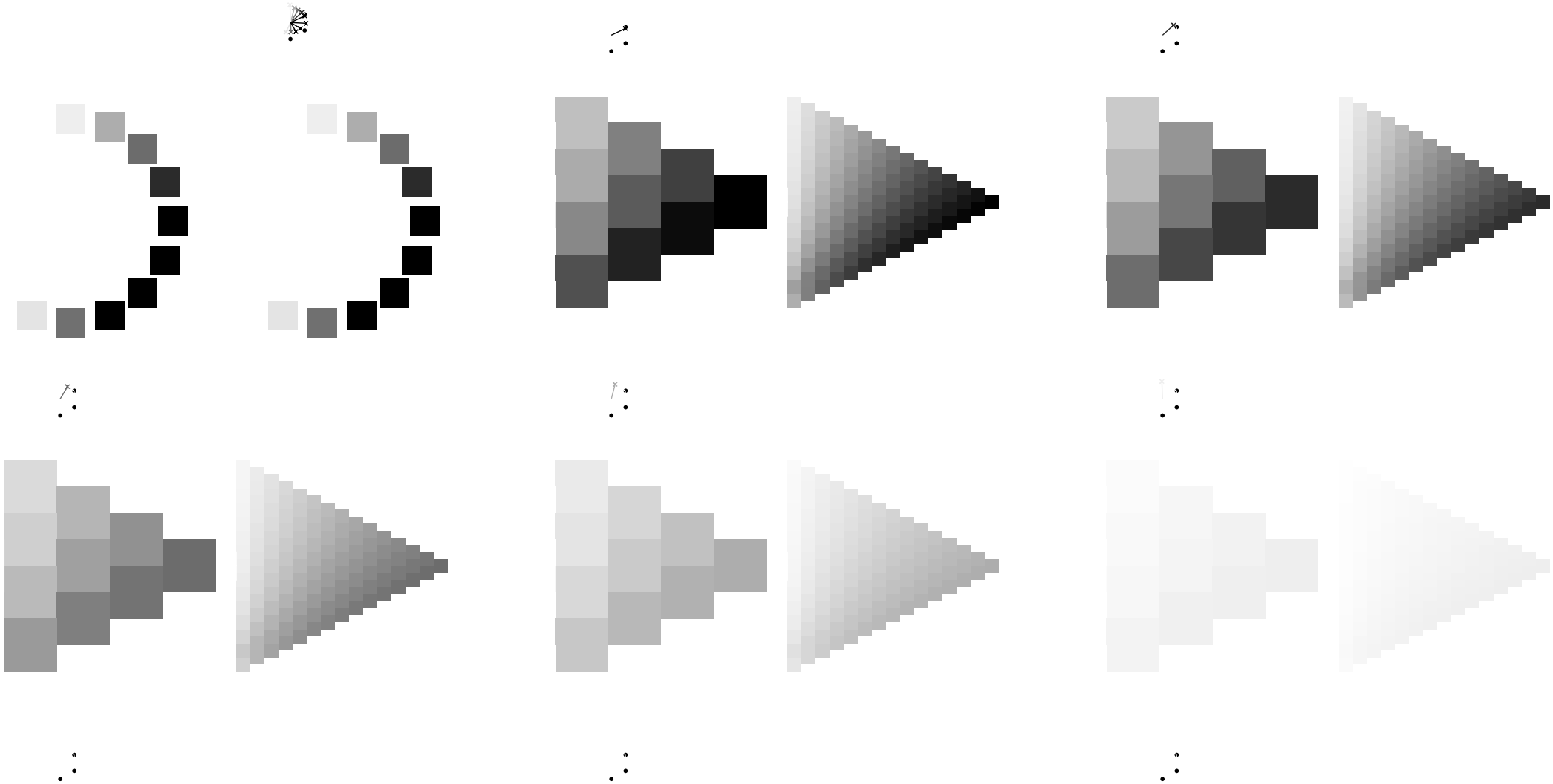


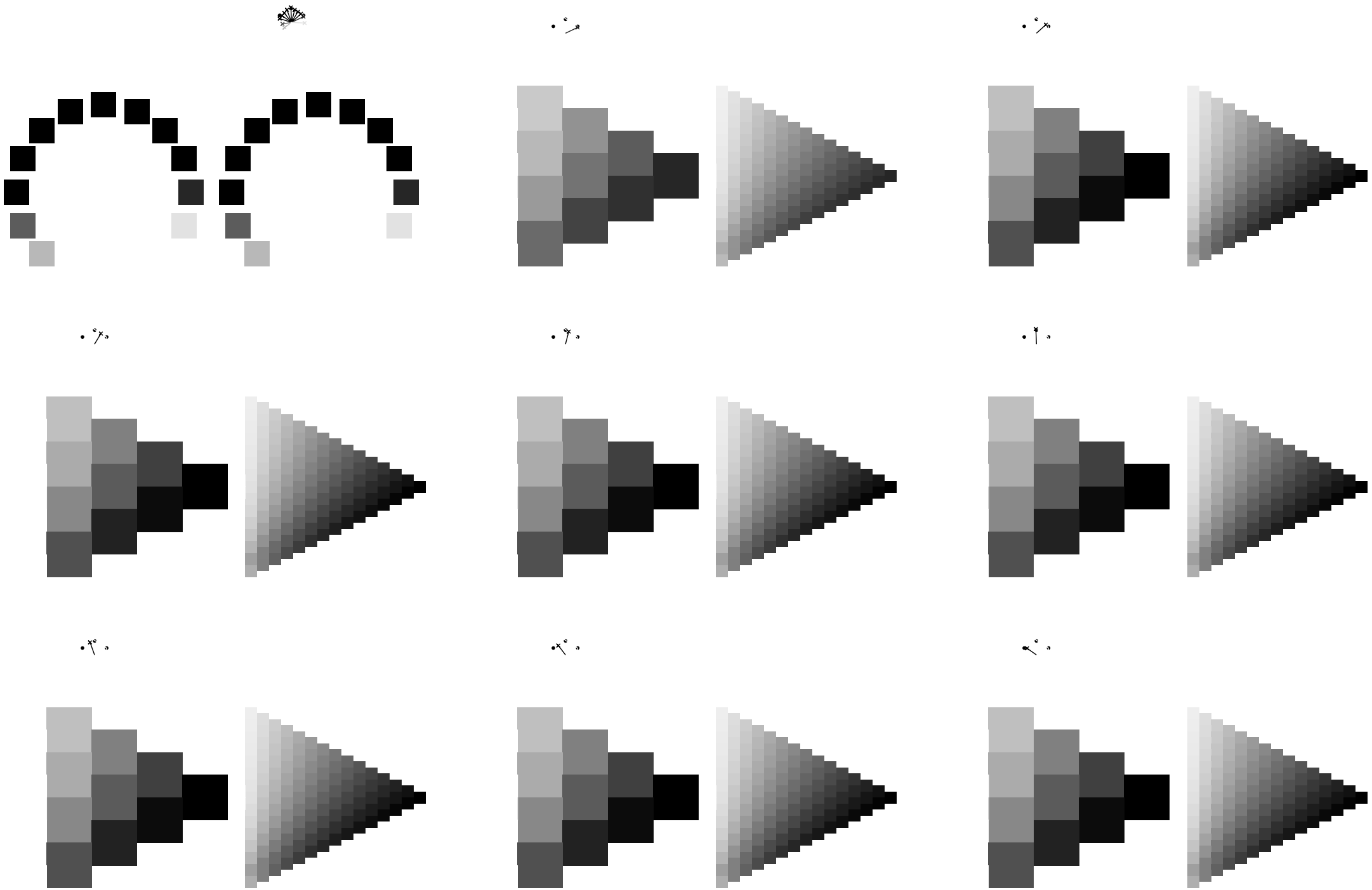
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.402$ u^*_e = *j75g*
data for any colour:
*lab*ich** and *lab*icu**
Hue texts:
u^*_e = *j75g* u^*_d = *y72l*
contrast reduction factor:
ϵ_R = 1.0
triangle lightness *i**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 62 −52 37
*LAB*LCH**$_{Ma}$: 62 64 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.27 1.0 0.0





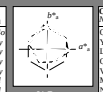




Input and output: Colorimetric Printer Reflective System ORS19_96a
data for any colour:
u^*_e and number *no.* = **00 .. 15**
elementary hue text:
u^*_e = **16 hues** *r00j, r25j, ..., b75r*
contrast reduction factor:
ϵ_R = **1.0**

ORS19_96a: adapted (a) CIELAB data

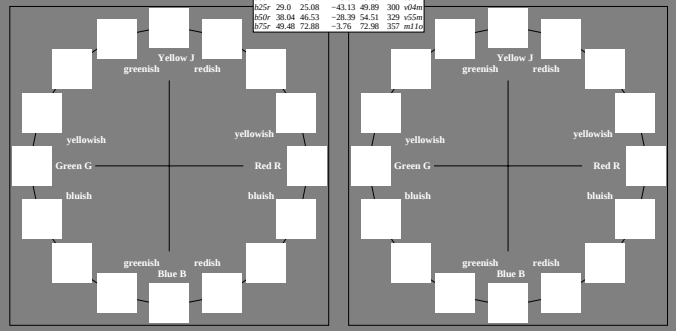
u^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_a
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



%Gamut
u^*_{col} = **89**
%Regularity
g^*_{Hue} = **72**
$g^*_{C,col}$ = **57**

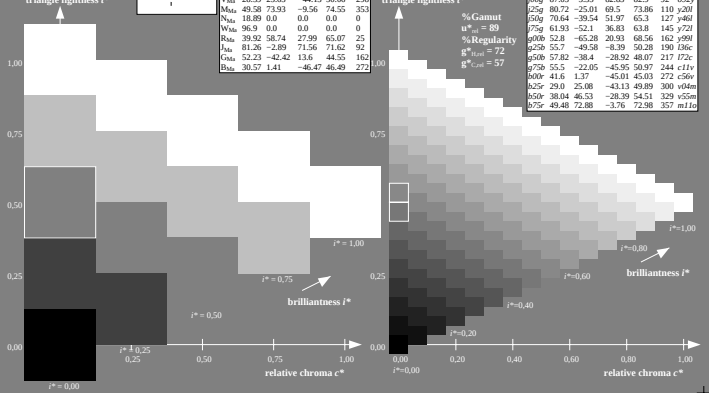
ORS19_96a: adapted (a) CIELAB data

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



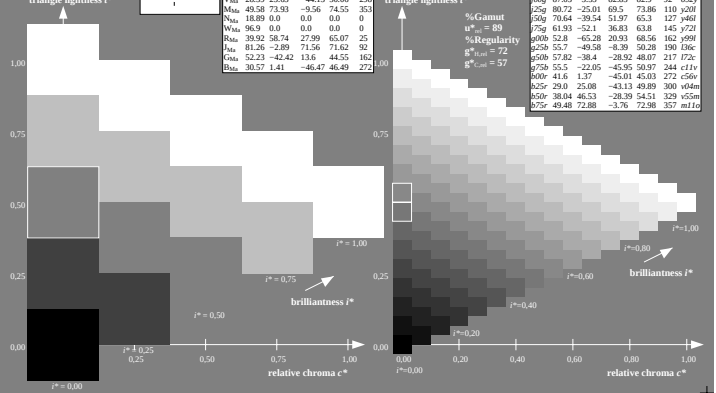
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.071$ u^*_e = *r00j*
data for any colour: *lab*c*h** and *lab*c*u**
Hue texts: u^*_e = *r00j* u^*_a = *m84o*
contrast reduction factor: ϵ_R = **1.0**
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: **49 66 32**
*LAB*LCH**$_{Ma}$: **49 74 25**
*lab*rgb**$_{Ma}$: **1.0 0.0 0.0**
*lab*olv**$_{Ma}$: **1.0 0.0 0.15**



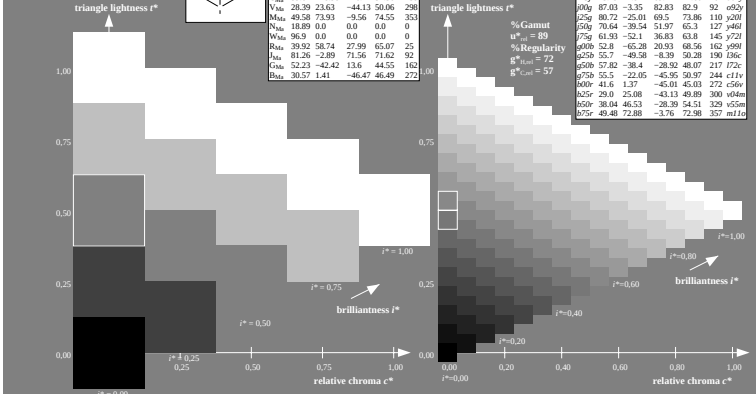
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.117$ u^*_e = *r25j*
data for any colour: *lab*c*h** and *lab*c*u**
Hue texts: u^*_e = *r25j* u^*_a = *o17y*
contrast reduction factor: ϵ_R = **1.0**
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: **56 52 47**
*LAB*LCH**$_{Ma}$: **56 71 42**
*lab*rgb**$_{Ma}$: **1.0 0.25 0.0**
*lab*olv**$_{Ma}$: **1.0 0.17 0.0**



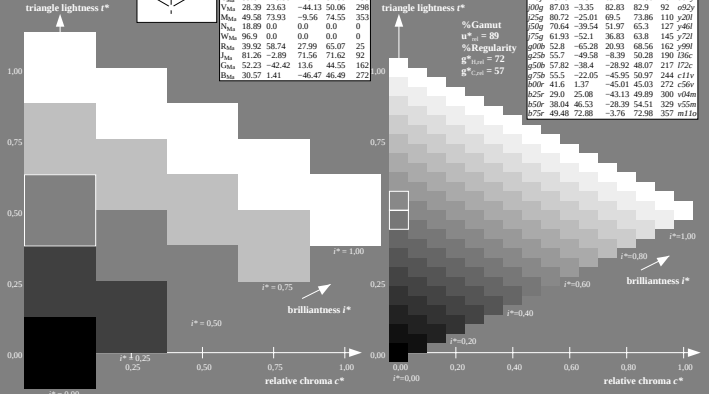
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.164$ u^*_e = *r50j*
data for any colour: *lab*c*h** and *lab*c*u**
Hue texts: u^*_e = *r50j* u^*_a = *o42y*
contrast reduction factor: ϵ_R = **1.0**
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: **65 35 58**
*LAB*LCH**$_{Ma}$: **65 68 58**
*lab*rgb**$_{Ma}$: **1.0 0.5 0.0**
*lab*olv**$_{Ma}$: **1.0 0.42 0.0**



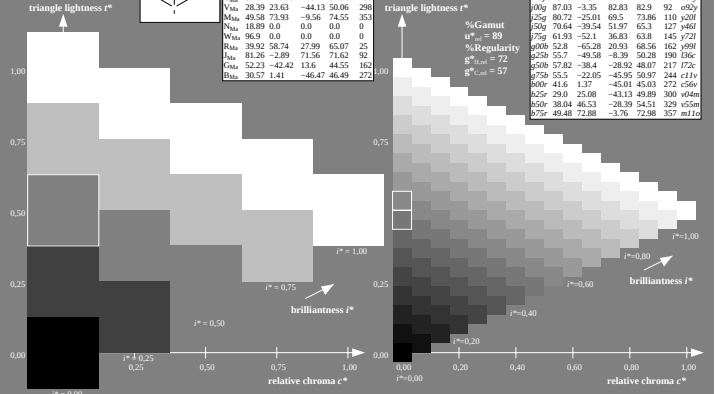
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.21$ u^*_e = *r75j*
data for any colour: *lab*c*h** and *lab*c*u**
Hue texts: u^*_e = *r75j* u^*_a = *o67y*
contrast reduction factor: ϵ_R = **1.0**
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: **75 18 69**
*LAB*LCH**$_{Ma}$: **75 72 75**
*lab*rgb**$_{Ma}$: **1.0 0.75 0.0**
*lab*olv**$_{Ma}$: **1.0 0.68 0.0**



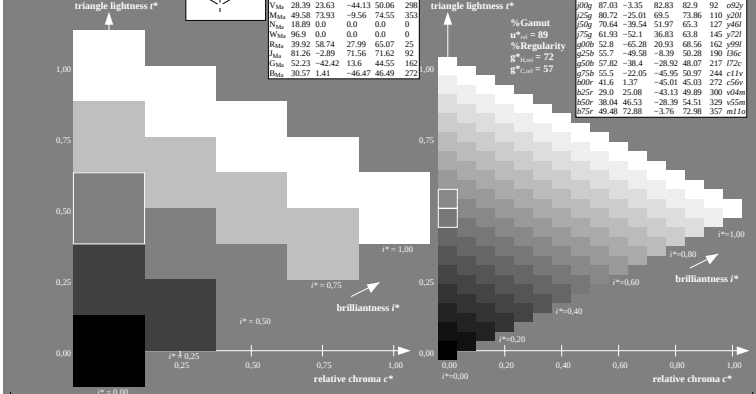
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.256$ u^*_e = *j00g*
data for any colour: *lab*c*h** and *lab*c*u**
Hue texts: u^*_e = *j00g* u^*_a = *o92y*
contrast reduction factor: ϵ_R = **1.0**
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: **87 −3 83**
*LAB*LCH**$_{Ma}$: **87 83 92**
*lab*rgb**$_{Ma}$: **1.0 1.0 0.0**
*lab*olv**$_{Ma}$: **1.0 0.93 0.0**



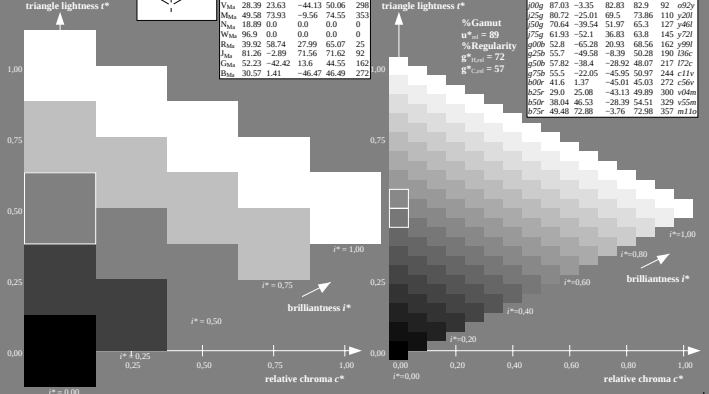
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.305$ u^*_e = *j25g*
data for any colour: *lab*c*h** and *lab*c*u**
Hue texts: u^*_e = *j25g* u^*_a = *y20l*
contrast reduction factor: ϵ_R = **1.0**
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: **81 −25 69**
*LAB*LCH**$_{Ma}$: **81 74 109**
*lab*rgb**$_{Ma}$: **0.75 1.0 0.0**
*lab*olv**$_{Ma}$: **0.8 1.0 0.0**



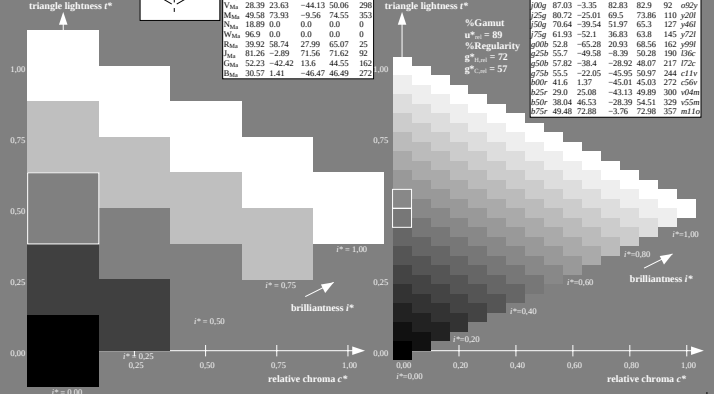
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.354$ u^*_e = *j50g*
data for any colour: *lab*c*h** and *lab*c*u**
Hue texts: u^*_e = *j50g* u^*_a = *y46l*
contrast reduction factor: ϵ_R = **1.0**
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: **71 −40 52**
*LAB*LCH**$_{Ma}$: **71 65 127**
*lab*rgb**$_{Ma}$: **0.5 1.0 0.0**
*lab*olv**$_{Ma}$: **0.54 1.0 0.0**



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.402$ u^*_e = *j75g*
data for any colour: *lab*c*h** and *lab*c*u**
Hue texts: u^*_e = *j75g* u^*_a = *y72l*
contrast reduction factor: ϵ_R = **1.0**
triangle lightness *t**

Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: **62 −52 37**
*LAB*LCH**$_{Ma}$: **62 64 144**
*lab*rgb**$_{Ma}$: **0.25 1.0 0.0**
*lab*olv**$_{Ma}$: **0.27 1.0 0.0**



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.071$ — $u^*_e = r00j$ lab^*olv^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.117$ — $u^*_e = r25j$ lab^*olv^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.164$ — $u^*_e = r50j$ lab^*olv^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.21$ — $u^*_e = r75j$ lab^*olv^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.256$ — $u^*_e = j00g$ lab^*olv^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.305$ — $u^*_e = j25g$ lab^*olv^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.354$ — $u^*_e = j50g$ lab^*olv^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.402$ — $u^*_e = j75g$ lab^*olv^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.071$ — $u^*_e = r00j$ lab^*rgb^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.117$ — $u^*_e = r25j$ lab^*rgb^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.164$ — $u^*_e = r50j$ lab^*rgb^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.21$ — $u^*_e = r75j$ lab^*rgb^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.256$ — $u^*_e = j00g$ lab^*rgb^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.305$ — $u^*_e = j25g$ lab^*rgb^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.354$ — $u^*_e = j50g$ lab^*rgb^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.402$ — $u^*_e = j75g$ lab^*rgb^*

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.071$

data for any colour: lab^*lch^* and lab^*cu^*

Hue texts: $u^*_E = r00j$ $u^*_d = m84o$

contrast reduction factor: $\varepsilon_R = 1.0$

triangle lightness i^*

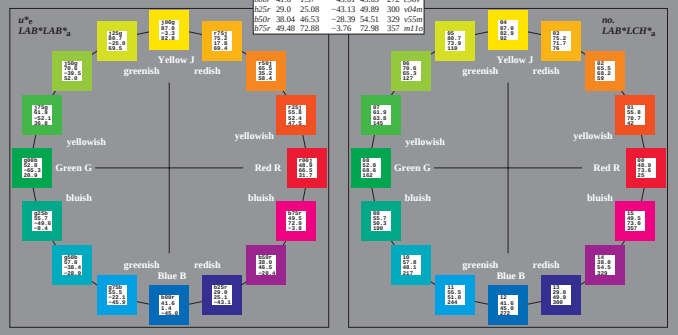
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 49 66 32; $LAB^*LCH^*_{Ma}$: 49 74 25; $lab^*rgb^*_{Ma}$: 1.0 0.0 0.0; $lab^*olv^*_{Ma}$: 1.0 0.0 0.15

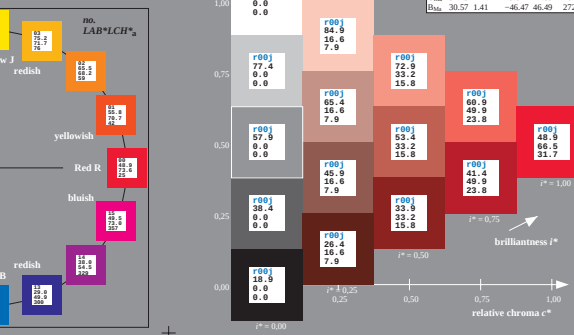
%Gamut $u^*_{gmt} = 89$; %Regularity $R^*_{Reg} = 72$; $R^*_{Cont} = 57$

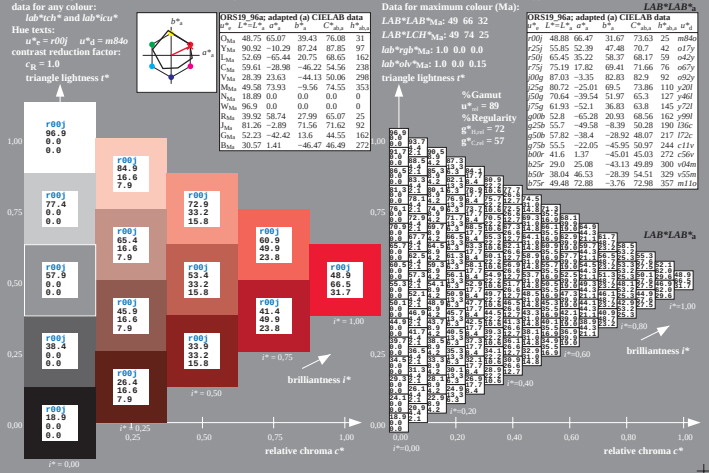
ORS19_96a: adapted (a) CIELAB data

u^*_E	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	m84o
r25j	55.85	52.39	47.48	70.7	42	o17y
r50j	65.45	35.22	58.37	68.17	59	o42y
r75j	75.19	17.82	69.41	71.66	76	o67y
j00g	87.03	−3.35	82.83	82.9	92	o92y
j25g	80.72	−25.01	69.5	73.86	110	y20l
j50g	70.64	−39.54	51.97	65.3	127	y46l
j75g	61.93	−52.1	36.83	63.8	145	y72l
g00b	52.8	−65.28	20.93	68.56	162	y99l
g25b	55.7	−49.58	−8.39	50.28	190	l36c
g50b	57.82	−38.4	−28.92	48.07	217	l72c
g75b	55.5	−22.05	−45.95	50.97	244	c11v
b00r	41.6	1.37	−45.01	45.03	272	c56v
b25r	29.0	25.08	−43.13	49.89	300	v04m
b50r	38.04	46.53	−28.39	54.51	329	v55m
b75r	49.48	72.88	−3.76	72.98	357	m11o

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







Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.117$

data for any colour: lab^*lch^* and lab^*cu^*

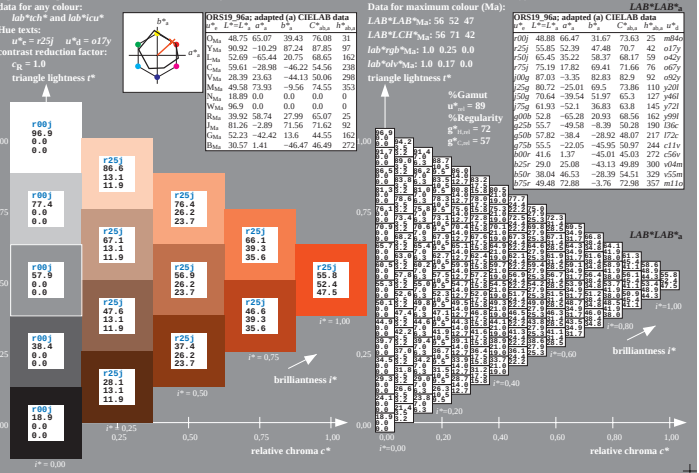
Hue texts: $u^*_E = r25j$ $u^*_d = o17y$

contrast reduction factor: $\varepsilon_R = 1.0$

triangle lightness i^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 56 52 47; $LAB^*LCH^*_{Ma}$: 56 71 42; $lab^*rgb^*_{Ma}$: 1.0 0.25 0.0; $lab^*olv^*_{Ma}$: 1.0 0.17 0.0

%Gamut $u^*_{gmt} = 89$; %Regularity $R^*_{Reg} = 72$; $R^*_{Cont} = 57$



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.164$

data for any colour: lab^*lch^* and lab^*cu^*

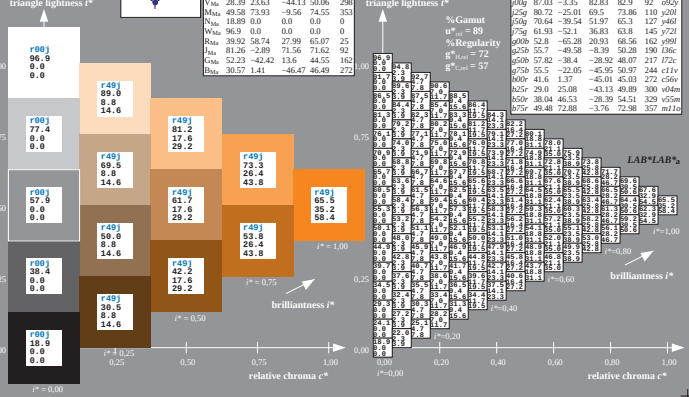
Hue texts: $u^*_E = r50j$ $u^*_d = o42y$

contrast reduction factor: $\varepsilon_R = 1.0$

triangle lightness i^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 65 35 58; $LAB^*LCH^*_{Ma}$: 65 68 58; $lab^*rgb^*_{Ma}$: 1.0 0.5 0.0; $lab^*olv^*_{Ma}$: 1.0 0.42 0.0

%Gamut $u^*_{gmt} = 89$; %Regularity $R^*_{Reg} = 72$; $R^*_{Cont} = 57$



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.21$

data for any colour: lab^*lch^* and lab^*cu^*

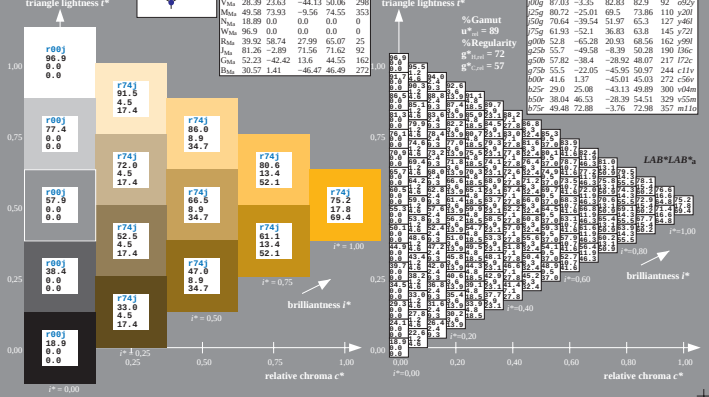
Hue texts: $u^*_E = r75j$ $u^*_d = o67y$

contrast reduction factor: $\varepsilon_R = 1.0$

triangle lightness i^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 75 18 69; $LAB^*LCH^*_{Ma}$: 75 72 75; $lab^*rgb^*_{Ma}$: 1.0 0.75 0.0; $lab^*olv^*_{Ma}$: 1.0 0.68 0.0

%Gamut $u^*_{gmt} = 89$; %Regularity $R^*_{Reg} = 72$; $R^*_{Cont} = 57$



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.256$

data for any colour: lab^*lch^* and lab^*cu^*

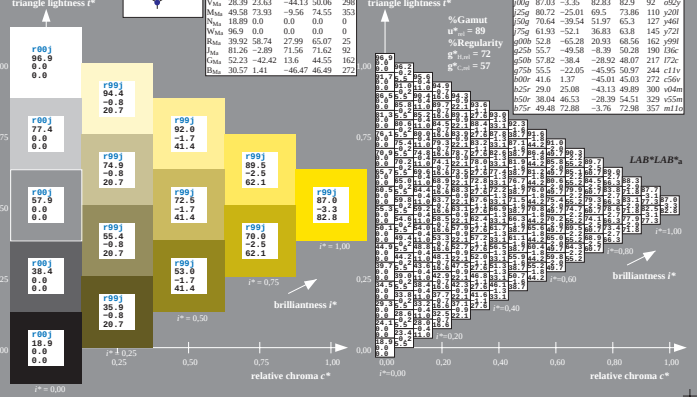
Hue texts: $u^*_E = j00g$ $u^*_d = o92y$

contrast reduction factor: $\varepsilon_R = 1.0$

triangle lightness i^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 87 −3 83; $LAB^*LCH^*_{Ma}$: 87 83 92; $lab^*rgb^*_{Ma}$: 1.0 1.0 0.0; $lab^*olv^*_{Ma}$: 1.0 0.93 0.0

%Gamut $u^*_{gmt} = 89$; %Regularity $R^*_{Reg} = 72$; $R^*_{Cont} = 57$



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.305$

data for any colour: lab^*lch^* and lab^*cu^*

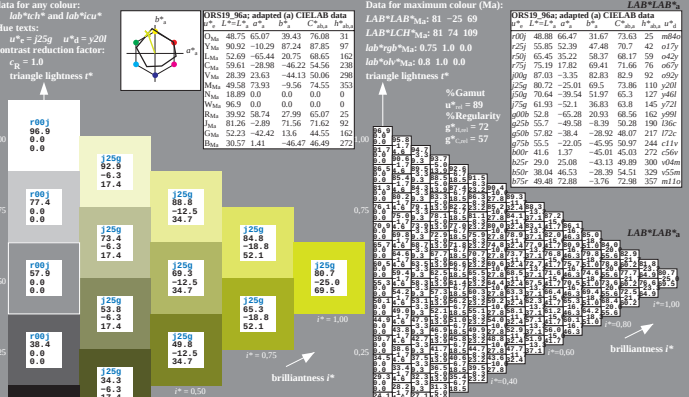
Hue texts: $u^*_E = j25g$ $u^*_d = y20l$

contrast reduction factor: $\varepsilon_R = 1.0$

triangle lightness i^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 81 −25 69; $LAB^*LCH^*_{Ma}$: 81 74 109; $lab^*rgb^*_{Ma}$: 0.75 1.0 0.0; $lab^*olv^*_{Ma}$: 0.8 1.0 0.0

%Gamut $u^*_{gmt} = 89$; %Regularity $R^*_{Reg} = 72$; $R^*_{Cont} = 57$



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.354$

data for any colour: lab^*lch^* and lab^*cu^*

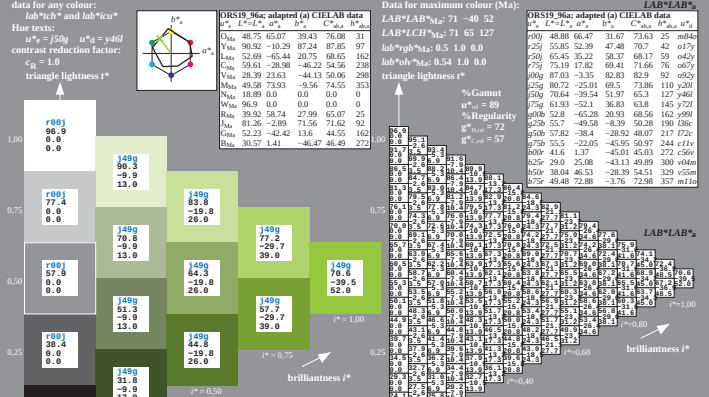
Hue texts: $u^*_E = j50g$ $u^*_d = y46l$

contrast reduction factor: $\varepsilon_R = 1.0$

triangle lightness i^*

Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 71 −40 52; $LAB^*LCH^*_{Ma}$: 71 65 127; $lab^*rgb^*_{Ma}$: 0.5 1.0 0.0; $lab^*olv^*_{Ma}$: 0.54 1.0 0.0

%Gamut $u^*_{gmt} = 89$; %Regularity $R^*_{Reg} = 72$; $R^*_{Cont} = 57$



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.402$

data for any colour: lab^*lch^* and lab^*cu^*

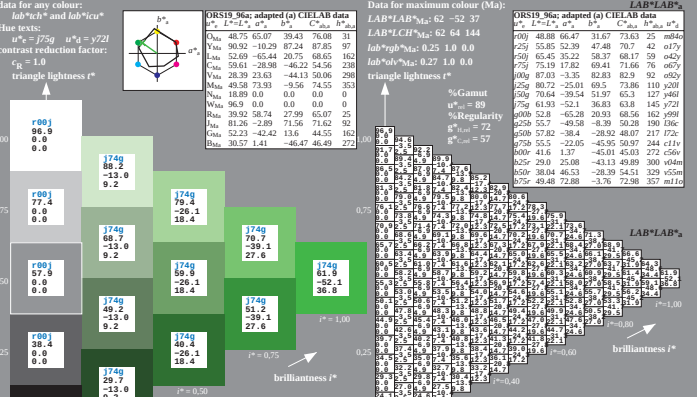
Hue texts: $u^*_E = j75g$ $u^*_d = y72l$

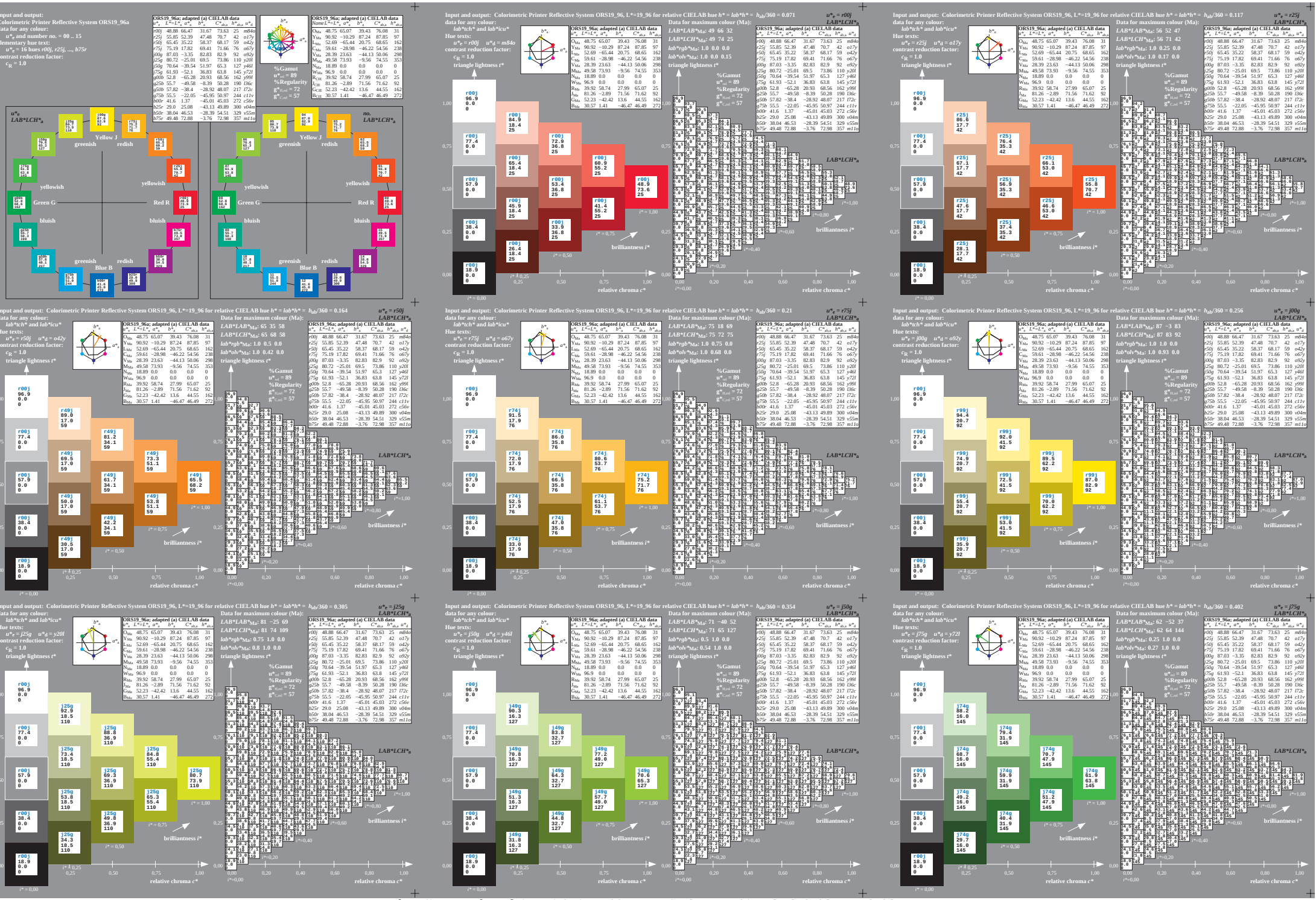
contrast reduction factor: $\varepsilon_R = 1.0$

triangle lightness i^*

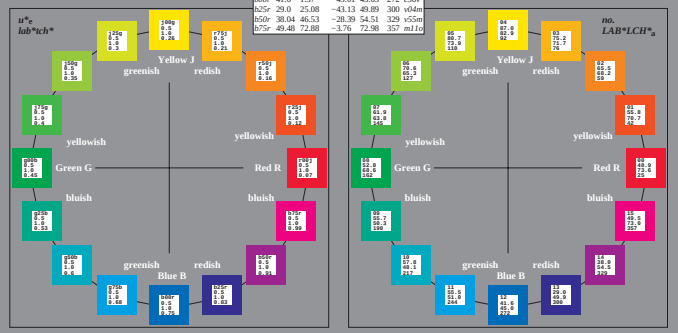
Data for maximum colour (Ma): $LAB^*LAB^*_{Ma}$: 62 −52 37; $LAB^*LCH^*_{Ma}$: 62 64 144; $lab^*rgb^*_{Ma}$: 0.25 1.0 0.0; $lab^*olv^*_{Ma}$: 0.27 1.0 0.0

%Gamut $u^*_{gmt} = 89$; %Regularity $R^*_{Reg} = 72$; $R^*_{Cont} = 57$

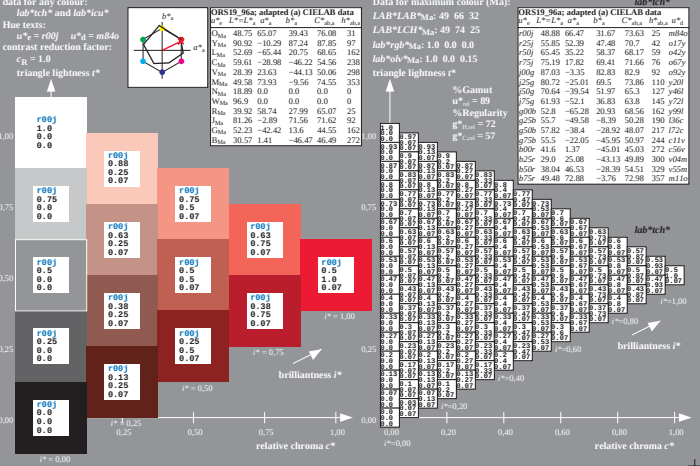



Input and output: Colorimetric Printer Reflective System ORS19_96a
data for any colour:
u*e and number no. = 00 .. 15
elementary hue text:
u*e = 16 hues r00j, r25j, ..., b75r
contrast reduction factor:
cR = 1.0
ORS19_96a: adapted (a) CIELAB data
ORS19_96a: adapted (a) CIELAB data
%Gamut
%Regularity
Yellow J
greenish
redish
yellowish
Green G
Red R
bluish
Blue B
no.
LAB*LCH*a
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = hab/360 = 0.071
u*e = r00j
LAB*LCH*a
Data for maximum colour (Ma):
LAB*LAB*Ma: 49 66 32
LAB*LCH*Ma: 49 74 25
lab*rgb*Ma: 1.0 0.0 0.0
lab*olv*Ma: 1.0 0.0 0.15
triangle lightness i*
brilliantness i*
relative chroma c*
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = hab/360 = 0.117
u*e = r25j
LAB*LCH*a
Data for maximum colour (Ma):
LAB*LAB*Ma: 56 52 47
LAB*LCH*Ma: 56 71 42
lab*rgb*Ma: 1.0 0.25 0.0
lab*olv*Ma: 1.0 0.17 0.0
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = hab/360 = 0.164
u*e = r50j
LAB*LCH*a
Data for maximum colour (Ma):
LAB*LAB*Ma: 65 35 58
LAB*LCH*Ma: 65 68 58
lab*rgb*Ma: 1.0 0.5 0.0
lab*olv*Ma: 1.0 0.42 0.0
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = hab/360 = 0.21
u*e = r75j
LAB*LCH*a
Data for maximum colour (Ma):
LAB*LAB*Ma: 75 18 69
LAB*LCH*Ma: 75 72 75
lab*rgb*Ma: 1.0 0.75 0.0
lab*olv*Ma: 1.0 0.68 0.0
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = hab/360 = 0.256
u*e = j00g
LAB*LCH*a
Data for maximum colour (Ma):
LAB*LAB*Ma: 87 -3 83
LAB*LCH*Ma: 87 83 92
lab*rgb*Ma: 1.0 1.0 0.0
lab*olv*Ma: 1.0 0.93 0.0
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = hab/360 = 0.305
u*e = j25g
LAB*LCH*a
Data for maximum colour (Ma):
LAB*LAB*Ma: 81 -25 69
LAB*LCH*Ma: 81 74 109
lab*rgb*Ma: 0.75 1.0 0.0
lab*olv*Ma: 0.8 1.0 0.0
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = hab/360 = 0.354
u*e = j50g
LAB*LCH*a
Data for maximum colour (Ma):
LAB*LAB*Ma: 71 -40 52
LAB*LCH*Ma: 71 65 127
lab*rgb*Ma: 0.5 1.0 0.0
lab*olv*Ma: 0.54 1.0 0.0
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = hab/360 = 0.402
u*e = j75g
LAB*LCH*a
Data for maximum colour (Ma):
LAB*LAB*Ma: 62 -52 37
LAB*LCH*Ma: 62 84 144
lab*rgb*Ma: 0.25 1.0 0.0
lab*olv*Ma: 0.27 1.0 0.0

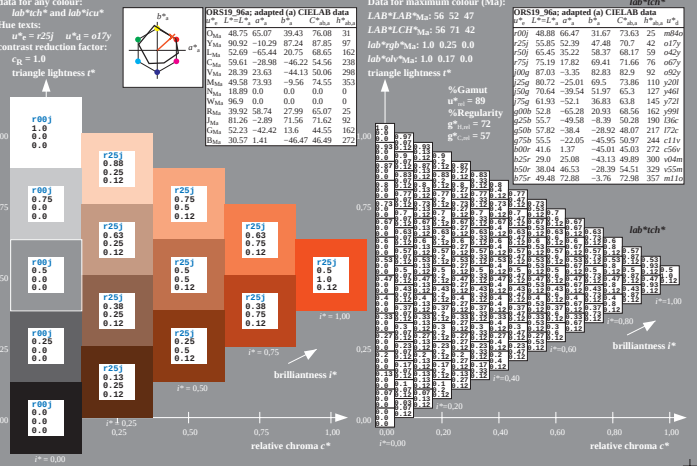
Input and output: Colorimetric Printer Reflective System ORS19_96a
data for any colour: u^*_R and number no. = 00 .. 15
elementary hue text: u^*_R = 16 hues r00j, r25j, ..., b75r
contrast reduction factor: c_R = 1.0



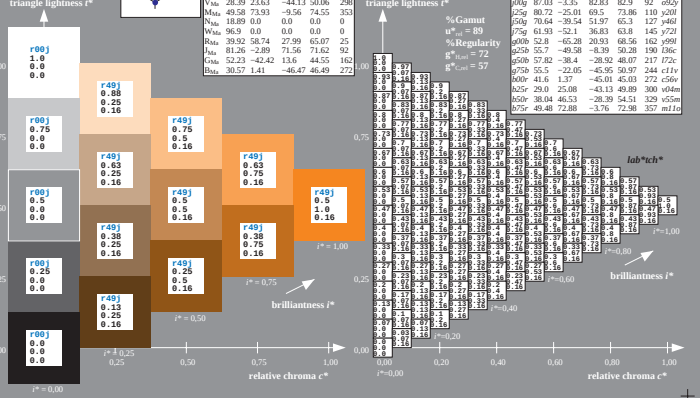
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_{lab}/360 = 0.071 — u^*_R = r00j



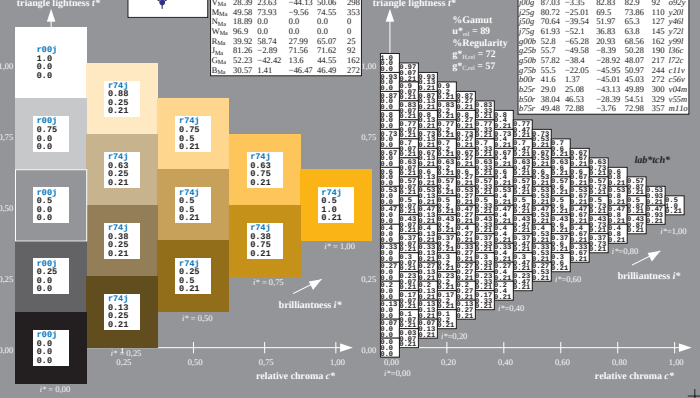
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_{lab}/360 = 0.117 — u^*_R = r25j



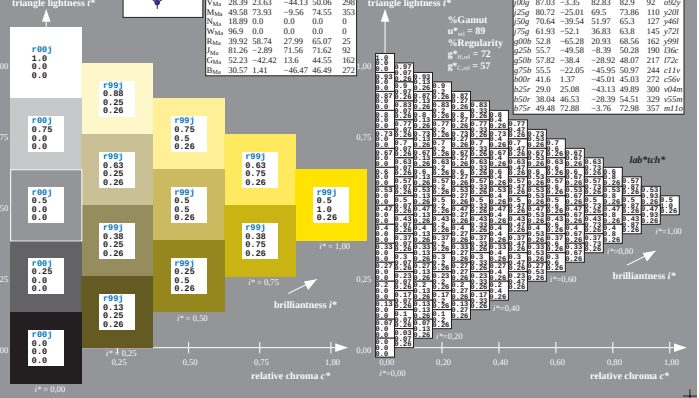
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_{lab}/360 = 0.164 — u^*_R = r50j



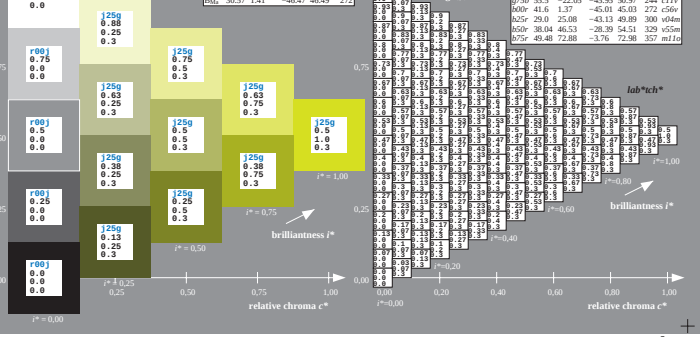
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_{lab}/360 = 0.21 — u^*_R = r75j



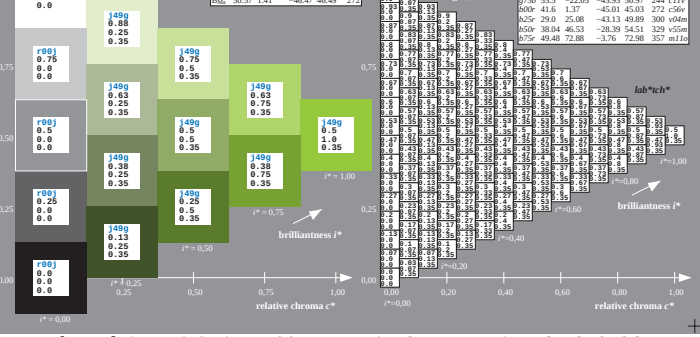
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_{lab}/360 = 0.256 — u^*_R = j00g



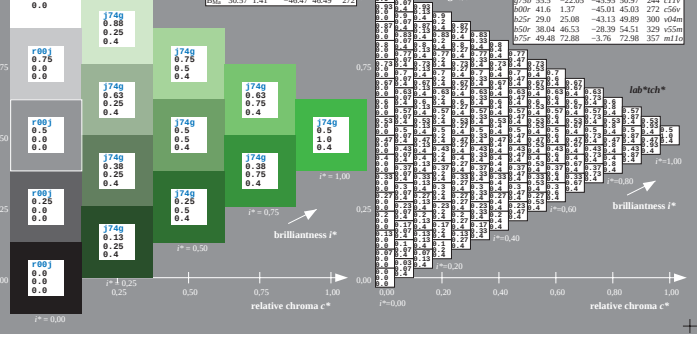
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_{lab}/360 = 0.305 — u^*_R = j25g



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_{lab}/360 = 0.354 — u^*_R = j50g

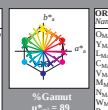


Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue h* = lab*h* = h_{lab}/360 = 0.402 — u^*_R = j75g

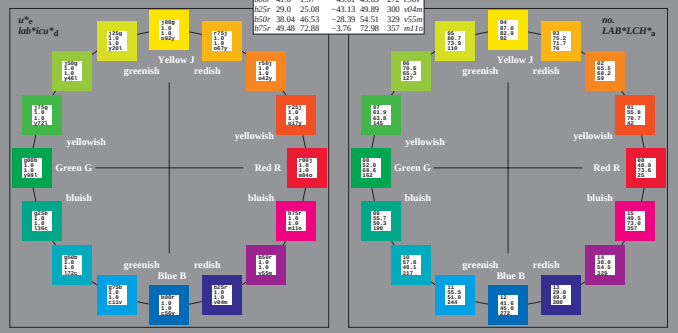


Input and output: Colorimetric Printer Reflective System ORS19_96a
data for any colour:
u^*_e and number *no.* = 00 .. 15
elementary hue text:
u^*_e = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
ε_R = 1.0

ORS19_96a; adapted (a) CIELAB data						
u^*_e	$L^*=L^*_a$	a^*_e	b^*_e	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_d
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
g00j	87.03	−3.35	82.83	82.9	92	*o92y*
g25j	80.72	−25.01	69.5	73.86	110	*y20l*
g50j	70.64	−39.54	51.97	65.3	127	*y46l*
g75j	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y98l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*



ORS19_96a; adapted (a) CIELAB data						
Name	$L^*=L^*_a$	a^*_e	b^*_e	$C^*_{ab,a}$	$h^*_{ab,a}$	
O_{MA}	48.75	65.07	39.43	76.08	31	
Y_{MA}	90.92	−10.29	87.24	87.85	97	
L_{MA}	52.69	−65.44	20.75	68.65	162	
C_{MA}	59.61	−28.98	−46.22	54.56	238	
V_{MA}	28.39	23.63	−44.13	50.06	298	
M_{MA}	49.58	73.93	−9.56	74.55	353	
N_{MA}	18.89	0.0	0.0	0.0	0	
W_{MA}	96.9	0.0	0.0	0.0	0	
R_{CIE}	39.92	58.74	27.99	65.07	25	
J_{CIE}	81.26	−2.89	71.56	71.62	92	
G_{CIE}	52.23	−42.42	13.6	44.55	162	
B_{CIE}	30.57	1.41	−46.47	46.49	272	



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.071$ u^*_e = *r00j*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_e = *r00j* u^*_d = *m84o*
contrast reduction factor: ε_R = 1.0
triangle lightness **
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 49 66 32 *LAB*LCH**$_{Ma}$: 49 74 25 *lab*rgb**$_{Ma}$: 1.0 0.0 0.0 *lab*olv**$_{Ma}$: 1.0 0.0 0.15
%Gamut u^*_{ref} = 89 %Regularity R^*_{ref} = 72 R^*_{cmf} = 57
brilliantness *i**
relative chroma *c**

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.117$ u^*_e = *r25j*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_e = *r25j* u^*_d = *o17y*
contrast reduction factor: ε_R = 1.0
triangle lightness **
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 56 52 47 *LAB*LCH**$_{Ma}$: 56 71 42 *lab*rgb**$_{Ma}$: 1.0 0.25 0.0 *lab*olv**$_{Ma}$: 1.0 0.17 0.0
%Gamut u^*_{ref} = 89 %Regularity R^*_{ref} = 72 R^*_{cmf} = 57
brilliantness *i**
relative chroma *c**

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.164$ u^*_e = *r50j*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_e = *r50j* u^*_d = *o42y*
contrast reduction factor: ε_R = 1.0
triangle lightness **
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 65 35 58 *LAB*LCH**$_{Ma}$: 65 68 58 *lab*rgb**$_{Ma}$: 1.0 0.5 0.0 *lab*olv**$_{Ma}$: 1.0 0.42 0.0
%Gamut u^*_{ref} = 89 %Regularity R^*_{ref} = 72 R^*_{cmf} = 57
brilliantness *i**
relative chroma *c**

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.21$ u^*_e = *r75j*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_e = *r75j* u^*_d = *o67y*
contrast reduction factor: ε_R = 1.0
triangle lightness **
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 75 18 69 *LAB*LCH**$_{Ma}$: 75 72 75 *lab*rgb**$_{Ma}$: 1.0 0.75 0.0 *lab*olv**$_{Ma}$: 1.0 0.68 0.0
%Gamut u^*_{ref} = 89 %Regularity R^*_{ref} = 72 R^*_{cmf} = 57
brilliantness *i**
relative chroma *c**

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.256$ u^*_e = *j00g*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_e = *j00g* u^*_d = *o92y*
contrast reduction factor: ε_R = 1.0
triangle lightness **
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 87 −3 83 *LAB*LCH**$_{Ma}$: 87 83 92 *lab*rgb**$_{Ma}$: 1.0 1.0 0.0 *lab*olv**$_{Ma}$: 1.0 0.93 0.0
%Gamut u^*_{ref} = 89 %Regularity R^*_{ref} = 72 R^*_{cmf} = 57
brilliantness *i**
relative chroma *c**

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.305$ u^*_e = *j25g*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_e = *j25g* u^*_d = *y20l*
contrast reduction factor: ε_R = 1.0
triangle lightness **
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 81 −25 69 *LAB*LCH**$_{Ma}$: 81 74 109 *lab*rgb**$_{Ma}$: 0.75 1.0 0.0 *lab*olv**$_{Ma}$: 0.8 1.0 0.0
%Gamut u^*_{ref} = 89 %Regularity R^*_{ref} = 72 R^*_{cmf} = 57
brilliantness *i**
relative chroma *c**

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.354$ u^*_e = *j50g*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_e = *j50g* u^*_d = *y46l*
contrast reduction factor: ε_R = 1.0
triangle lightness **
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 71 −40 52 *LAB*LCH**$_{Ma}$: 71 65 127 *lab*rgb**$_{Ma}$: 0.5 1.0 0.0 *lab*olv**$_{Ma}$: 0.54 1.0 0.0
%Gamut u^*_{ref} = 89 %Regularity R^*_{ref} = 72 R^*_{cmf} = 57
brilliantness *i**
relative chroma *c**

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.402$ u^*_e = *j75g*
data for any colour: *lab*ch** and *lab*icu**
Hue texts: u^*_e = *j75g* u^*_d = *y72l*
contrast reduction factor: ε_R = 1.0
triangle lightness **
Data for maximum colour (Ma): *LAB*LAB**$_{Ma}$: 62 −52 37 *LAB*LCH**$_{Ma}$: 62 64 144 *lab*rgb**$_{Ma}$: 0.25 1.0 0.0 *lab*olv**$_{Ma}$: 0.27 1.0 0.0
%Gamut u^*_{ref} = 89 %Regularity R^*_{ref} = 72 R^*_{cmf} = 57
brilliantness *i**
relative chroma *c**

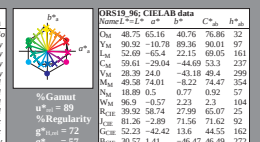
Input and output: Colorimetric Printer Reflective System ORS19_96a
data for any colour:
u^*_E and number *no.* = 00 .. 15
elementary hue text:
u^*_E = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 1.0

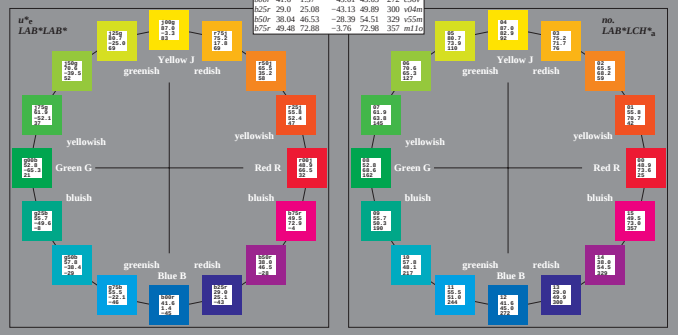
ORS19_96a: adapted (a) CIELAB data

	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}	u^*_E
r00j	48.88	66.47	31.67	73.63	25	m84o
r25j	55.85	52.39	47.48	70.7	42	o17y
r50j	65.45	35.22	58.37	68.17	59	o42y
r75j	75.19	17.82	69.41	71.66	76	o67y
j00g	87.03	−3.35	82.83	82.9	92	o92y
j25g	80.72	−25.01	69.5	73.86	110	y20l
j50g	70.64	−39.54	51.97	65.3	127	y46l
j75g	61.93	−52.1	36.83	63.8	145	y72l
g00b	52.8	−65.28	20.93	68.56	162	y99l
g25b	55.7	−49.58	−8.39	50.28	190	t36c
g50b	57.82	−38.4	−28.92	48.07	217	t72c
g75b	55.5	−22.05	−45.95	50.97	244	c11v
b00r	41.6	1.37	−45.01	45.03	272	c56v
b25r	29.0	25.08	−43.13	49.89	300	v04m
b50r	38.04	46.53	−28.39	54.51	329	v55m
b75r	49.48	72.88	−3.76	72.98	357	m11o

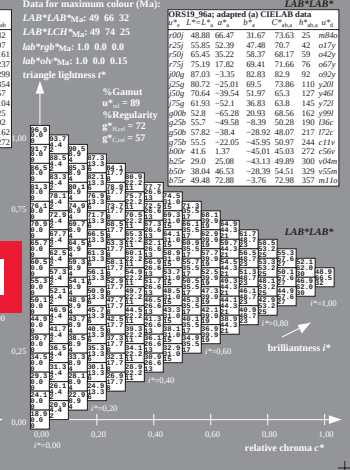
ORS19_96; CIELAB data

Name	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Mt}	48.75	65.16	40.76	76.86	32
Y_{Mt}	90.92	−10.78	89.36	90.01	97
L_{Mt}	52.69	−65.4	22.15	69.05	161
C_{Mt}	59.61	−29.04	−44.69	53.3	237
V_{Mt}	28.39	24.0	−43.18	49.4	299
M_{Mt}	49.58	74.01	−8.22	74.47	354
N_{Mt}	18.89	0.5	0.77	0.92	57
W_{Mt}	96.9	−0.57	2.23	2.3	104
R_{Hd}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
R_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272

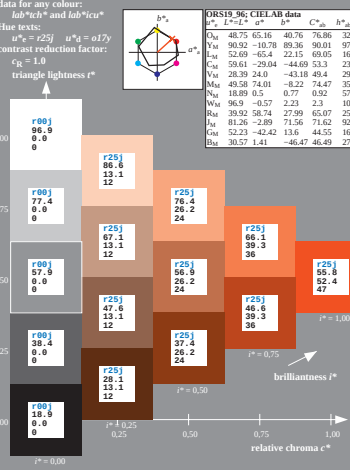




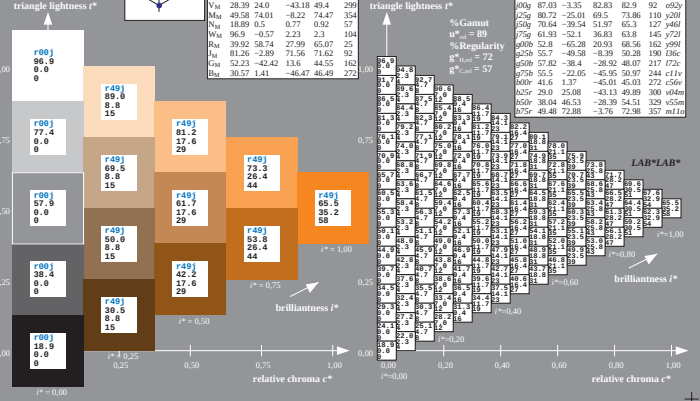
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.071$ u^*_E = *r00j* LAB*LAB*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *r00j* u^*_d = *m84o*
contrast reduction factor:
c_R = 1.0
triangle lightness *:
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 66 32
*LAB*LCH**$_{Ma}$: 49 74 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.0 0.15



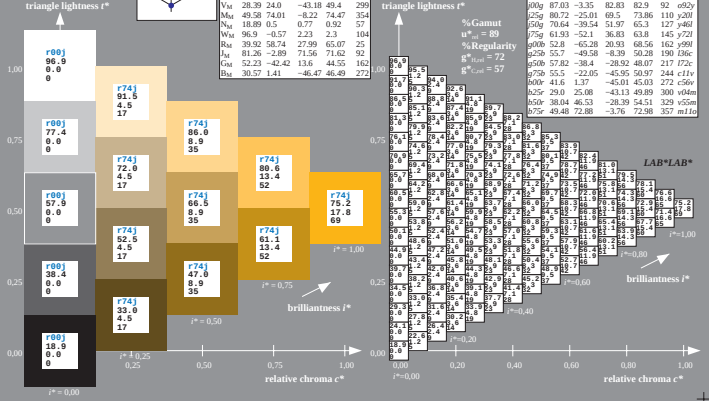
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.117$ u^*_E = *r25j* LAB*LAB*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *r25j* u^*_d = *o17y*
contrast reduction factor:
c_R = 1.0
triangle lightness *:
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 52 47
*LAB*LCH**$_{Ma}$: 56 71 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv**$_{Ma}$: 1.0 0.17 0.0



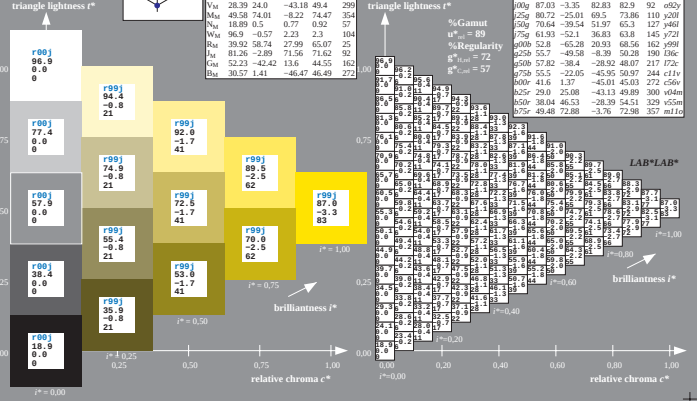
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.164$ u^*_E = *r50j* LAB*LAB*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *r50j* u^*_d = *o42y*
contrast reduction factor:
c_R = 1.0
triangle lightness *:
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 65 35 58
*LAB*LCH**$_{Ma}$: 65 68 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv**$_{Ma}$: 1.0 0.42 0.0



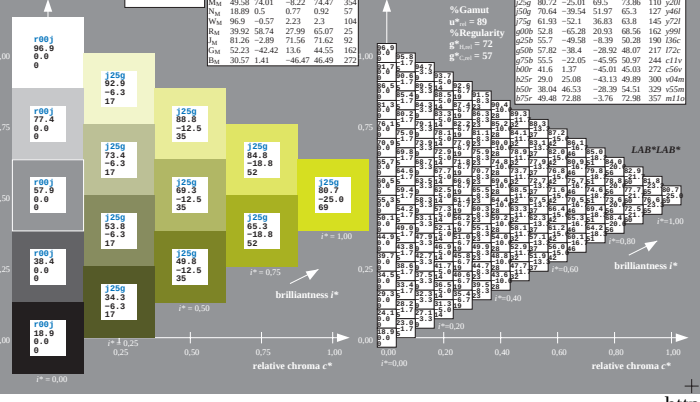
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.21$ u^*_E = *r75j* LAB*LAB*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *r75j* u^*_d = *o67y*
contrast reduction factor:
c_R = 1.0
triangle lightness *:
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 75 18 69
*LAB*LCH**$_{Ma}$: 75 72 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv**$_{Ma}$: 1.0 0.68 0.0



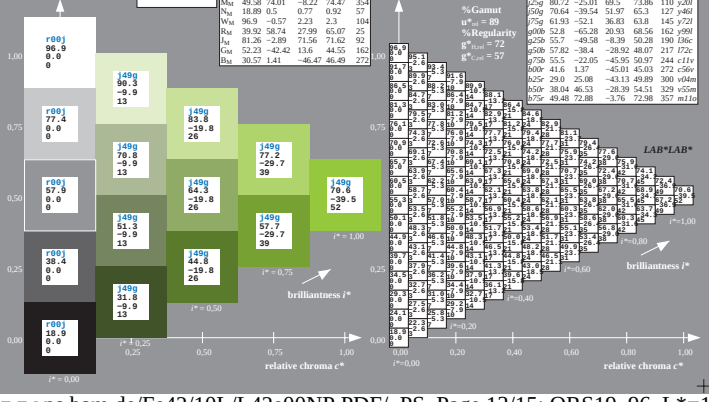
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.256$ u^*_E = *j00g* LAB*LAB*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *j00g* u^*_d = *o92y*
contrast reduction factor:
c_R = 1.0
triangle lightness *:
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −3 83
*LAB*LCH**$_{Ma}$: 87 83 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv**$_{Ma}$: 1.0 0.93 0.0



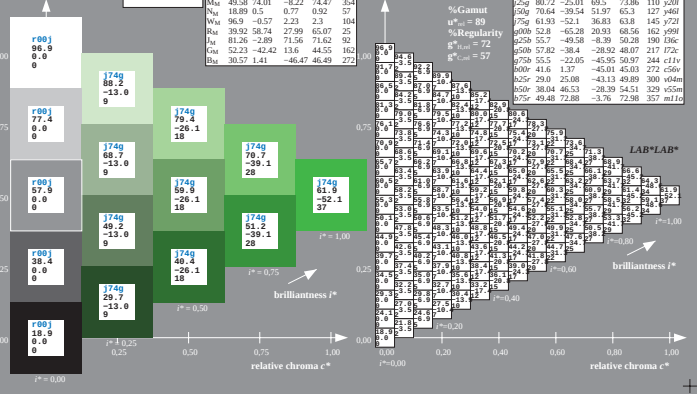
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.305$ u^*_E = *j25g* LAB*LAB*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *j25g* u^*_d = *y20l*
contrast reduction factor:
c_R = 1.0
triangle lightness *:
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 81 −25 69
*LAB*LCH**$_{Ma}$: 81 74 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv**$_{Ma}$: 0.8 1.0 0.0



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.354$ u^*_E = *j50g* LAB*LAB*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *j50g* u^*_d = *y46l*
contrast reduction factor:
c_R = 1.0
triangle lightness *:
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 71 −40 52
*LAB*LCH**$_{Ma}$: 71 65 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv**$_{Ma}$: 0.54 1.0 0.0



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.402$ u^*_E = *j75g* LAB*LAB*
data for any colour:
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *j75g* u^*_d = *y72l*
contrast reduction factor:
c_R = 1.0
triangle lightness *:
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 62 −52 37
*LAB*LCH**$_{Ma}$: 62 64 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv**$_{Ma}$: 0.27 1.0 0.0



Input and output: Colorimetric Printer Reflective System ORS19_96a
data for any colour:
u^*_a and number *no.* = 00 .. 15
elementary hue text:
u^*_E = 16 hues *r00j, r25j, ..., b75r*
contrast reduction factor:
c_R = 1.0

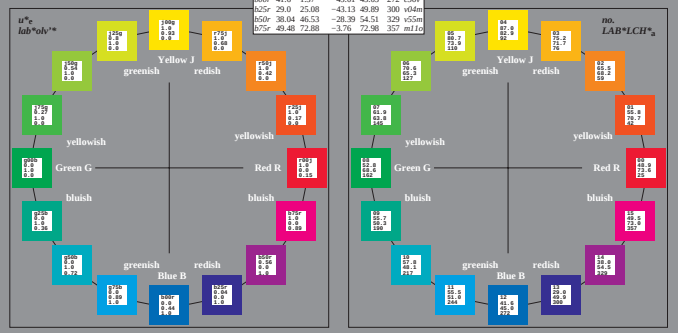
ORS19_96a; adapted (a) CIELAB data

u^*_a	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	u^*_E
r00j	48.88	66.47	31.67	73.63	25	*m84o*
r25j	55.85	52.39	47.48	70.7	42	*o17y*
r50j	65.45	35.22	58.37	68.17	59	*o42y*
r75j	75.19	17.82	69.41	71.66	76	*o67y*
j00g	87.03	−3.35	82.83	82.9	92	*o92y*
j25g	80.72	−25.01	69.5	73.86	110	*y20l*
j50g	70.64	−39.54	51.97	65.3	127	*y46l*
j75g	61.93	−52.1	36.83	63.8	145	*y72l*
g00b	52.8	−65.28	20.93	68.56	162	*y99l*
g25b	55.7	−49.58	−8.39	50.28	190	*l36c*
g50b	57.82	−38.4	−28.92	48.07	217	*l72c*
g75b	55.5	−22.05	−45.95	50.97	244	*c11v*
b00r	41.6	1.37	−45.01	45.03	272	*c56v*
b25r	29.0	25.08	−43.13	49.89	300	*v04m*
b50r	38.04	46.53	−28.39	54.51	329	*v55m*
b75r	49.48	72.88	−3.76	72.98	357	*m11o*

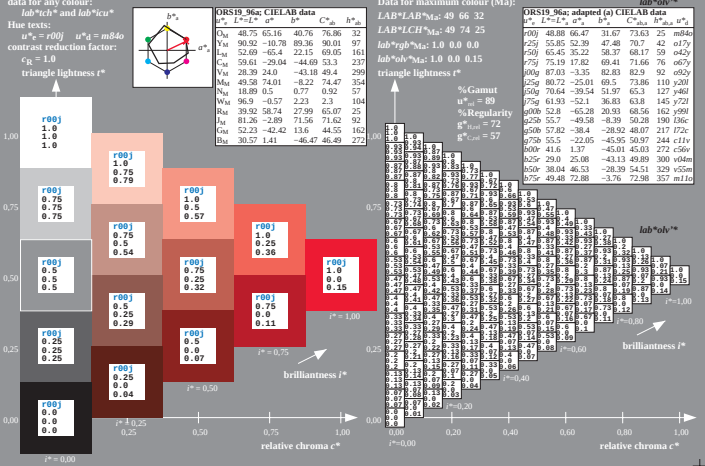
ORS19_96a; CIELAB data

Name	$L^*=L^*$	a^*	b^*	C^*_{ab}	h^*_{ab}
O_{Bk}	48.75	65.16	40.76	76.86	32
Y_{Wt}	90.92	−10.78	89.36	90.01	97
L_M	52.69	−65.4	22.15	69.05	161
C_M	59.61	−29.04	−44.69	53.3	237
V_M	28.39	24.0	−43.18	49.4	299
M_M	49.58	74.01	−8.22	74.47	354
N_M	18.89	0.5	0.77	0.92	57
W_M	96.9	−0.57	2.23	2.3	104
R_{Hg}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.89	71.56	71.62	92
G_{CIE}	52.23	−42.42	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.47	46.49	272

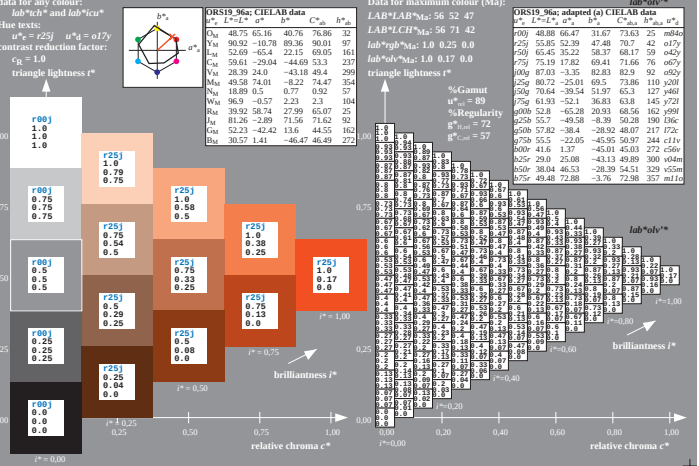
%Gamut $u^*_{a,i}$ = 89
%Regularity
R^*_{Hue} = 72
$R^*_{C,ref}$ = 57



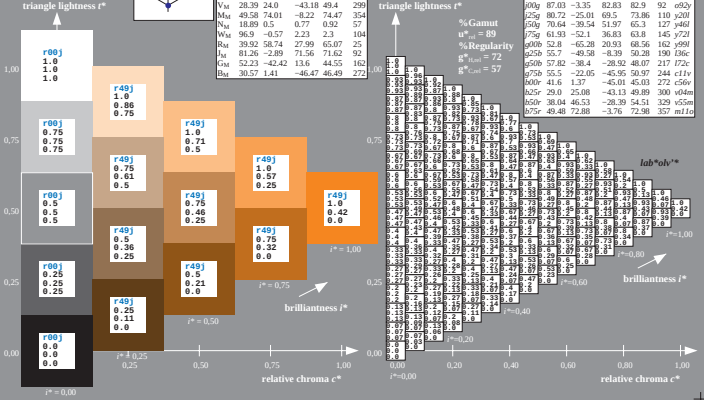
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.071$
data for any colour: u^*_E = *r00j* u^*_a = *m84o*
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *r00j* u^*_a = *m84o*
contrast reduction factor:
c_R = 1.0
triangle lightness *
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 49 66 32
*LAB*LCH**$_{Ma}$: 49 74 25
*lab*rgb**$_{Ma}$: 1.0 0.0 0.0
*lab*olv'**$_{Ma}$: 1.0 0.0 0.15



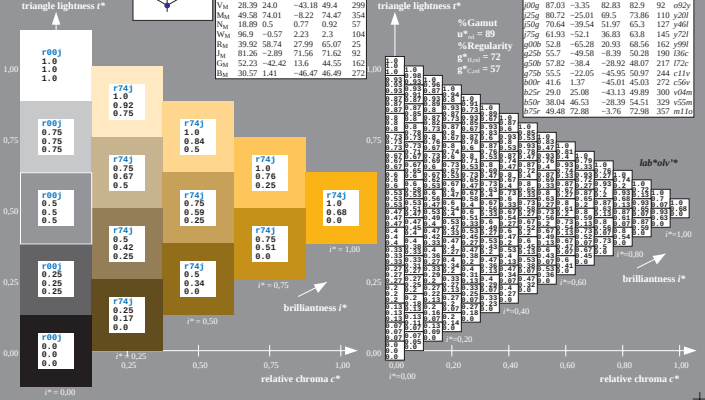
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.117$
data for any colour: u^*_E = *r25j* u^*_a = *o17y*
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *r25j* u^*_a = *o17y*
contrast reduction factor:
c_R = 1.0
triangle lightness *
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 56 52 47
*LAB*LCH**$_{Ma}$: 56 71 42
*lab*rgb**$_{Ma}$: 1.0 0.25 0.0
*lab*olv'**$_{Ma}$: 1.0 0.17 0.0



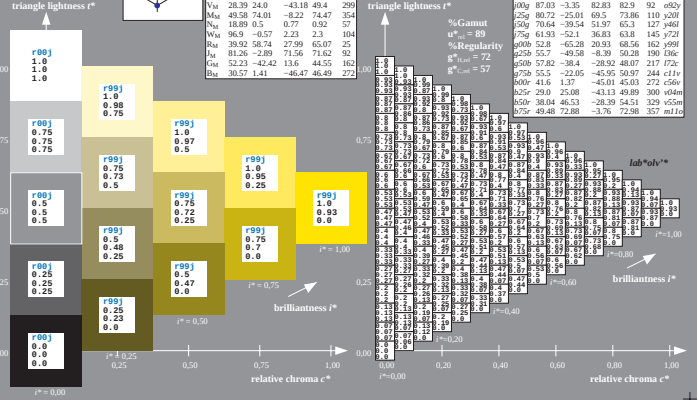
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.164$
data for any colour: u^*_E = *r50j* u^*_a = *o42y*
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *r50j* u^*_a = *o42y*
contrast reduction factor:
c_R = 1.0
triangle lightness *
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 65 35 58
*LAB*LCH**$_{Ma}$: 65 68 58
*lab*rgb**$_{Ma}$: 1.0 0.5 0.0
*lab*olv'**$_{Ma}$: 1.0 0.42 0.0



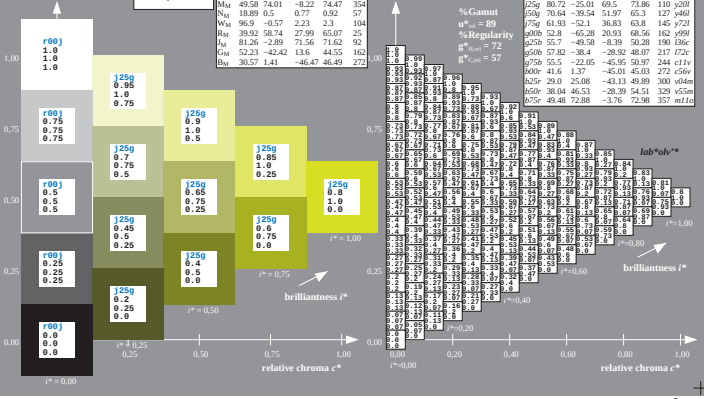
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.21$
data for any colour: u^*_E = *r75j* u^*_a = *o67y*
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *r75j* u^*_a = *o67y*
contrast reduction factor:
c_R = 1.0
triangle lightness *
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 75 18 69
*LAB*LCH**$_{Ma}$: 75 72 75
*lab*rgb**$_{Ma}$: 1.0 0.75 0.0
*lab*olv'**$_{Ma}$: 1.0 0.68 0.0



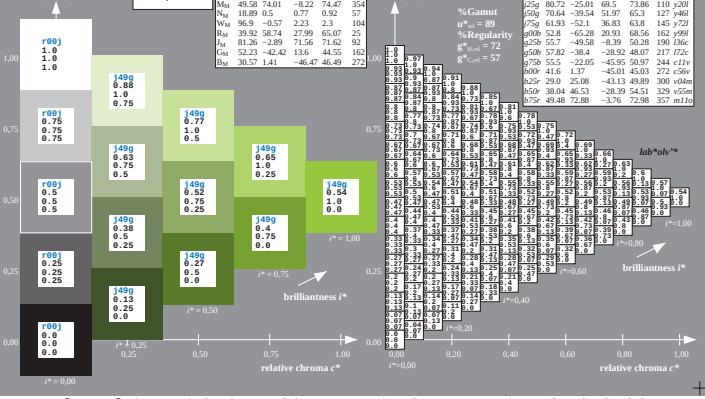
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.256$
data for any colour: u^*_E = *j00g* u^*_a = *o92y*
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *j00g* u^*_a = *o92y*
contrast reduction factor:
c_R = 1.0
triangle lightness *
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 87 −3 83
*LAB*LCH**$_{Ma}$: 87 83 92
*lab*rgb**$_{Ma}$: 1.0 1.0 0.0
*lab*olv'**$_{Ma}$: 1.0 0.93 0.0



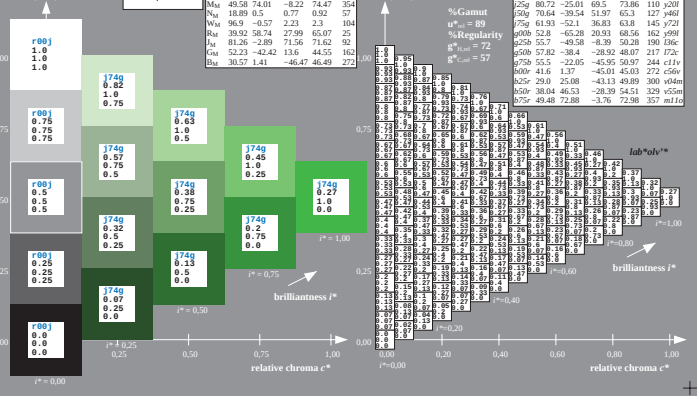
Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.305$
data for any colour: u^*_E = *j25g* u^*_a = *y20l*
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *j25g* u^*_a = *y20l*
contrast reduction factor:
c_R = 1.0
triangle lightness *
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 81 −25 69
*LAB*LCH**$_{Ma}$: 81 74 109
*lab*rgb**$_{Ma}$: 0.75 1.0 0.0
*lab*olv'**$_{Ma}$: 0.8 1.0 0.0



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.354$
data for any colour: u^*_E = *j50g* u^*_a = *y46l*
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *j50g* u^*_a = *y46l*
contrast reduction factor:
c_R = 1.0
triangle lightness *
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 71 −40 52
*LAB*LCH**$_{Ma}$: 71 65 127
*lab*rgb**$_{Ma}$: 0.5 1.0 0.0
*lab*olv'**$_{Ma}$: 0.54 1.0 0.0



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.402$
data for any colour: u^*_E = *j75g* u^*_a = *y72l*
*lab*c*h** and *lab*c*u**
Hue texts:
u^*_E = *j75g* u^*_a = *y72l*
contrast reduction factor:
c_R = 1.0
triangle lightness *
Data for maximum colour (Ma):
*LAB*LAB**$_{Ma}$: 62 −52 37
*LAB*LCH**$_{Ma}$: 62 64 144
*lab*rgb**$_{Ma}$: 0.25 1.0 0.0
*lab*olv'**$_{Ma}$: 0.27 1.0 0.0



Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.071$ — $u^*_R = r00j$, $LAB^*cmyn'^*$

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.117$ — $u^*_R = r25j$, $LAB^*cmyn'^*$

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.164$ — $u^*_R = r50j$, $LAB^*cmyn'^*$

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.21$ — $u^*_R = r75j$, $LAB^*cmyn'^*$

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.256$ — $u^*_R = j00g$, $LAB^*cmyn'^*$

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.305$ — $u^*_R = j25g$, $LAB^*cmyn'^*$

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.354$ — $u^*_R = j50g$, $LAB^*cmyn'^*$

Input and output: Colorimetric Printer Reflective System ORS19_96, L*=19_96 for relative CIELAB hue $h^* = lab^*h^* = h_{lab}/360 = 0.402$ — $u^*_R = j75g$, $LAB^*cmyn'^*$