

Input and Output: Laser Reflective System LRS18a

Data for any device (d) or
elementary (e) colour:

HIC^* -

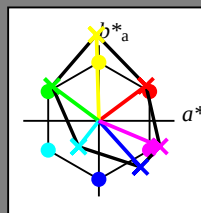
hue text for the colours

of this page:

$H^*_e = R00Y_e, R25Y_e, \dots, B75R_e$

ORS20a; adapted (a) CIELAB data

H^*_e	$L^*=L^*_a a^*_a$	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_	48.4	66.1	40.2	77.3
R25Y_100_100_	56.8	48.0	50.5	69.6
R50Y_100_100_	68.6	25.0	63.9	68.6
R75Y_100_100_	80.6	4.8	77.2	77.3
Y00G_100_100_	90.2	-9.6	88.2	88.7
Y25G_100_100_	83.2	-18.4	79.9	81.9
Y50G_100_100_	73.3	-31.7	62.7	70.2
Y75G_100_100_	62.0	-49.7	43.2	65.8
G00B_100_100_	55.8	-65.2	33.8	73.4
G25B_100_100_	59.3	-50.3	-9.0	51.0
G50B_100_100_	63.0	-30.5	-42.0	51.9
G75B_100_100_	45.7	-5.7	-44.6	44.9
B00R_100_100_	27.5	25.9	-47.3	53.9
B25R_100_100_	38.3	52.6	-28.5	59.8
B50R_100_100_	49.5	73.5	-9.0	74.0
B75R_100_100_	48.9	69.3	12.9	70.4



% Gamut

$u^*_{rel} = 114$

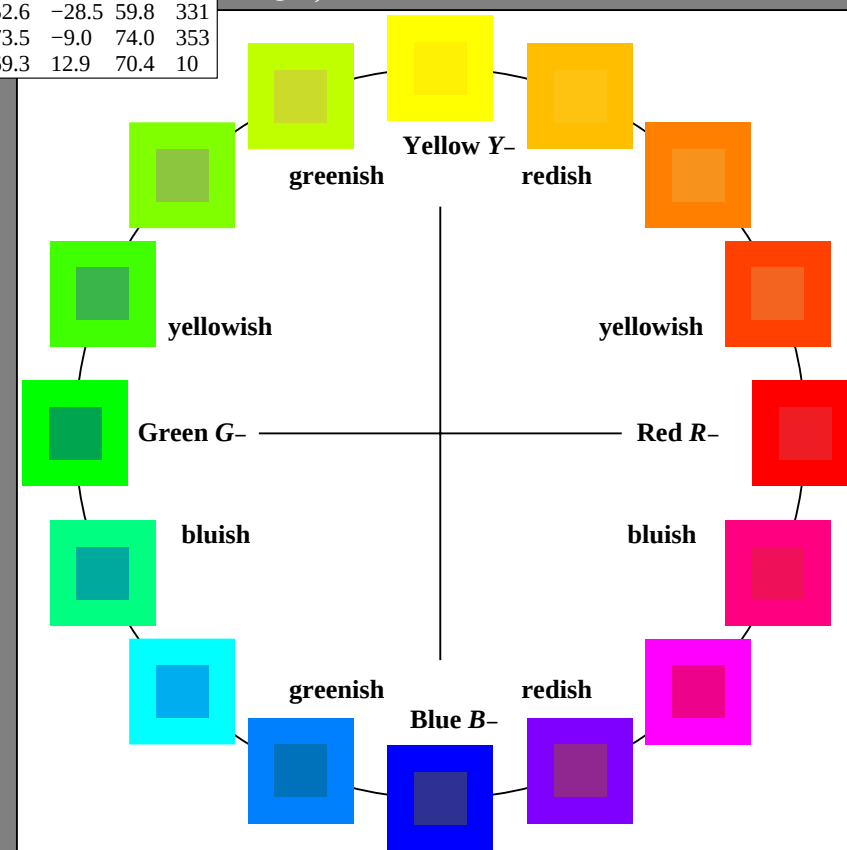
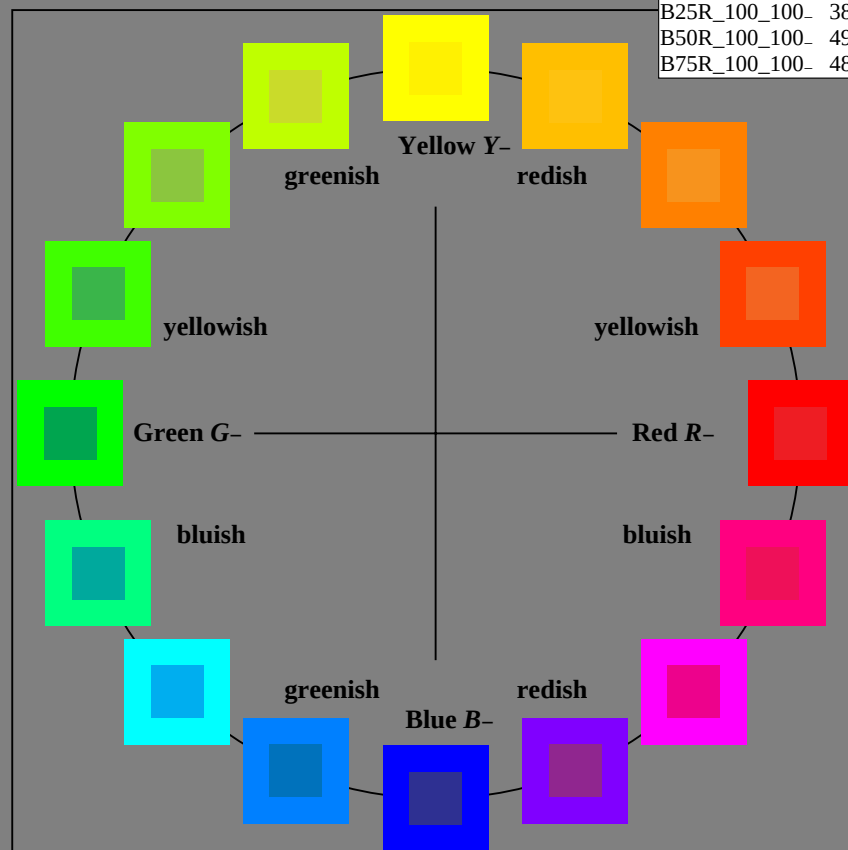
% Regularity

$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

LRS18a; adapted (a) CIELAB data

name	$L^*=L^*_a a^*_a$	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_.,Ma	32.5	62.3	46.4	77.7
Y_.,Ma	82.7	-3.1	113.9	114.0
G_.,Ma	39.4	-61.8	45.8	76.9
C_.,Ma	47.8	-26.8	-34.2	43.4
B_.,Ma	10.1	55.1	-61.0	82.2
M_.,Ma	34.5	80.6	-33.9	87.5
N_.,Ma	6.2	0.0	0.0	0.0
W_.,Ma	91.9	0.0	0.0	0.0
R_.,CIE	39.9	58.7	27.9	65.0
Y_.,CIE	81.2	-2.8	71.5	71.6
G_.,CIE	52.2	-42.4	13.6	44.5
B_.,CIE	30.5	1.4	-46.4	46.4



RE840-7N_RGB 1-103031-L0

TUB-test chart RE84; 16 step hue circle, $cf=1$
Test chart according to DIN 33872

input: $rgb/cmyk \rightarrow rgb/cmyk$
output: no change

Input and Output: Laser Reflective System LRS18a

Data for any device (d) or
elementary (e) colour:

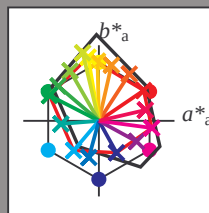
$$HIC^*_d$$

hue text for the colours
of this page:

$$H^*_d = R00Y_d, R25Y_d, \dots, B75R_d$$

LRS18a; adapted (a) CIELAB data

H^*_d	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_d	47.0	59.1	40.1	71.5	34
R25Y_100_100_d	59.7	40.2	61.8	73.8	56
R50Y_100_100_d	72.1	16.6	73.6	75.5	77
R75Y_100_100_d	83.1	-1.7	79.1	79.1	91
Y00G_100_100_d	91.1	-14.2	84.3	85.4	99
Y25G_100_100_d	89.9	-21.3	89.9	92.4	103
Y50G_100_100_d	74.3	-37.9	65.9	76.1	119
Y75G_100_100_d	61.9	-53.8	46.0	70.8	139
G00B_100_100_d	55.1	-65.2	33.4	73.3	152
G25B_100_100_d	56.9	-50.1	-4.0	50.3	184
G50B_100_100_d	53.2	-33.3	-39.2	51.4	229
G75B_100_100_d	46.2	-13.2	-48.4	50.2	254
B00R_100_100_d	32.1	23.3	-42.1	48.1	299
B25R_100_100_d	35.8	49.8	-27.2	56.7	331
B50R_100_100_d	47.6	69.9	-9.4	70.6	352
B75R_100_100_d	46.0	61.4	14.2	63.1	13



% Gamut

$u^*_{rel} = 114$

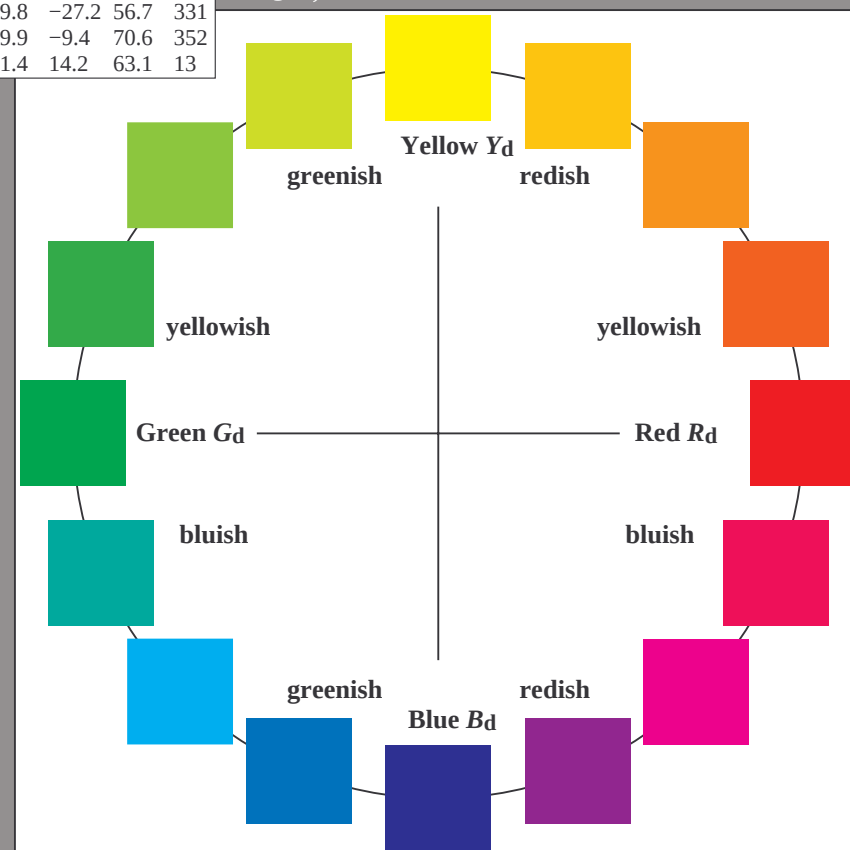
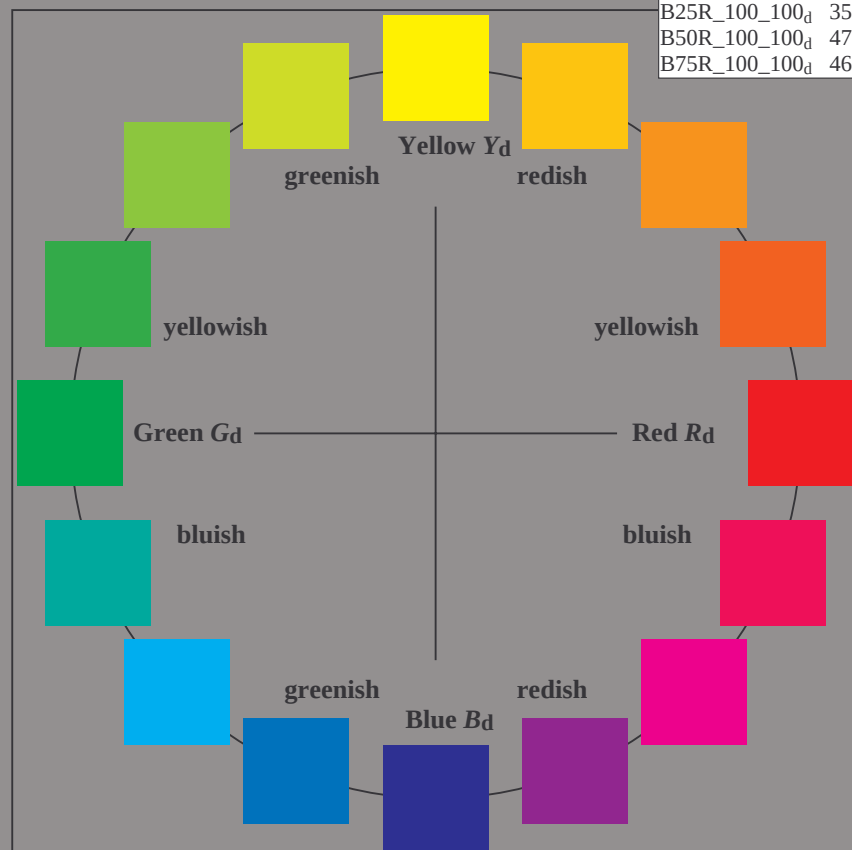
% Regularity

$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

LRS18a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{d, Ma}	47.0	59.1	40.1	71.5	34
Y _{d, Ma}	91.1	-14.2	84.3	85.4	99
G _{d, Ma}	55.1	-65.2	33.4	73.3	152
C _{d, Ma}	53.2	-33.3	-39.2	51.4	229
B _{d, Ma}	32.1	23.3	-42.1	48.1	299
M _{d, Ma}	47.6	69.9	-9.4	70.6	352
N _{d, Ma}	24.5	0.0	0.0	0.0	0
W _{d, Ma}	96.3	0.0	0.0	0.0	0
R _{d, CIE}	39.9	58.7	27.9	65.0	25
Y _{d, CIE}	81.2	-2.8	71.5	71.6	92
G _{d, CIE}	52.2	-42.4	13.6	44.5	162
B _{d, CIE}	30.5	1.4	-46.4	46.4	271



RE840-72

1-103131-L0

TUB-test chart RE84; 16 step hue circle, $cf=1$
Test chart according to DIN 33872, 3D=1, $de=0$, $cmY0^*$

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmY0^*_{dd}$

Input and Output: Laser Reflective System LRS18a

Data for any device (d) or
elementary (e) colour:

HIC^* -

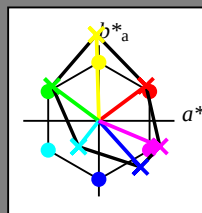
hue text for the colours

of this page:

$H^*_- = R00Y_-$, $R25Y_-$, ..., $B75R_-$

ORS20a; adapted (a) CIELAB data

H^*_-	$L^*=L^*_a a^*_a$	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_	48.4	66.1	40.2	77.3
R25Y_100_100_	56.8	48.0	50.5	69.6
R50Y_100_100_	68.6	25.0	63.9	68.6
R75Y_100_100_	80.6	4.8	77.2	77.3
Y00G_100_100_	90.2	-9.6	88.2	88.7
Y25G_100_100_	83.2	-18.4	79.9	81.9
Y50G_100_100_	73.3	-31.7	62.7	70.2
Y75G_100_100_	62.0	-49.7	43.2	65.8
G00B_100_100_	55.8	-65.2	33.8	73.4
G25B_100_100_	59.3	-50.3	-9.0	51.0
G50B_100_100_	63.0	-30.5	-42.0	51.9
G75B_100_100_	45.7	-5.7	-44.6	44.9
B00R_100_100_	27.5	25.9	-47.3	53.9
B25R_100_100_	38.3	52.6	-28.5	59.8
B50R_100_100_	49.5	73.5	-9.0	74.0
B75R_100_100_	48.9	69.3	12.9	70.4



% Gamut

$u^*_{rel} = 114$

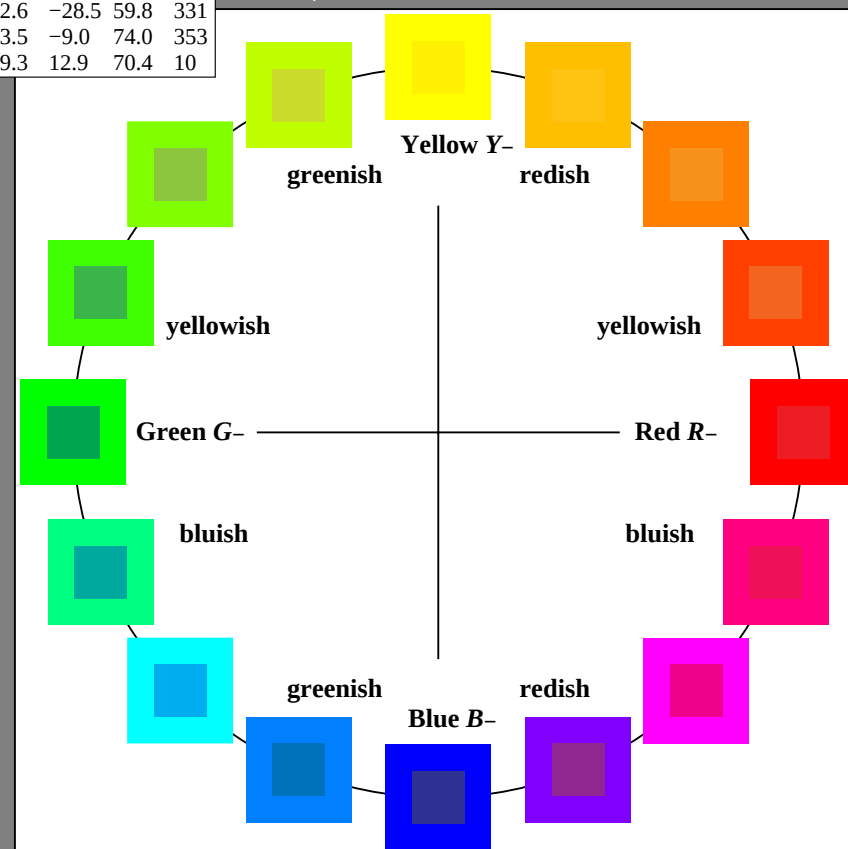
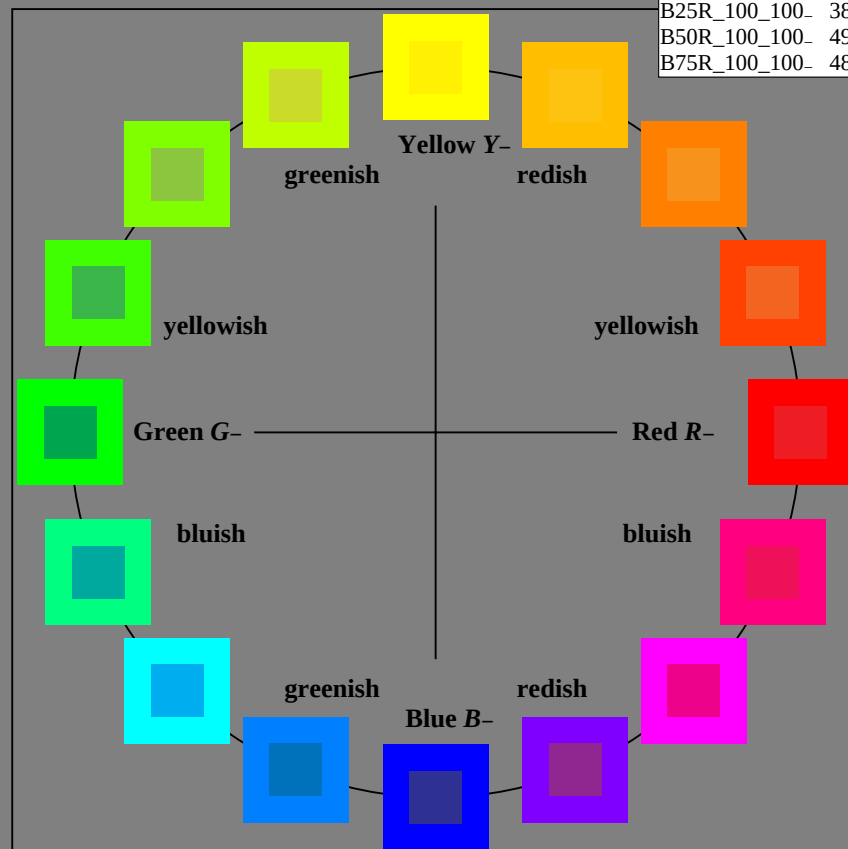
% Regularity

$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

LRS18a; adapted (a) CIELAB data

name	$L^*=L^*_a a^*_a$	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R_.,Ma	32.5	62.3	46.4	77.7
Y_.,Ma	82.7	-3.1	113.9	114.0
G_.,Ma	39.4	-61.8	45.8	76.9
C_.,Ma	47.8	-26.8	-34.2	43.4
B_.,Ma	10.1	55.1	-61.0	82.2
M_.,Ma	34.5	80.6	-33.9	87.5
N_.,Ma	6.2	0.0	0.0	0.0
W_.,Ma	91.9	0.0	0.0	0.0
R_.,CIE	39.9	58.7	27.9	65.0
Y_.,CIE	81.2	-2.8	71.5	71.6
G_.,CIE	52.2	-42.4	13.6	44.5
B_.,CIE	30.5	1.4	-46.4	46.4



RE840-7N_RGB 1-113031-L0

TUB-test chart RE84; 16 step hue circle, $cf=1$
Test chart according to DIN 33872

input: $rgb/cmyk \rightarrow rgb/cmyk$
output: no change

Input and Output: Laser Reflective System LRS18a

Data for any device (d) or
elementary (e) colour:

HIC_e^*

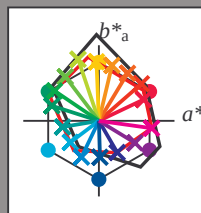
hue text for the colours

of this page:

$H_e^* = R00Y_e, R25Y_e, \dots, B75R_e$

LRS18a; adapted (a) CIELAB data

H_e^*	$L^*=L_a^*a_a^*$	b_a^*	$C_{ab,a}^*$	$h_{ab,a}^*$	
R00Y_100_100_e	46.2	59.0	28.1	65.4	25
R25Y_100_100_e	50.6	56.2	48.9	74.5	41
R50Y_100_100_e	60.9	37.9	62.8	73.4	58
R75Y_100_100_e	71.8	17.3	73.4	75.4	76
Y00G_100_100_e	84.0	-3.1	78.1	78.1	92
Y25G_100_100_e	84.2	-27.4	81.4	85.9	108
Y50G_100_100_e	69.4	-44.3	58.2	73.2	127
Y75G_100_100_e	58.7	-58.5	39.6	70.6	145
G00B_100_100_e	55.0	-62.1	19.9	65.3	162
G25B_100_100_e	57.1	-47.9	-8.1	48.6	189
G50B_100_100_e	55.9	-37.6	-28.3	47.1	216
G75B_100_100_e	51.1	-23.0	-47.9	53.2	244
B00R_100_100_e	37.3	1.4	-48.1	48.1	271
B25R_100_100_e	32.0	24.3	-41.8	48.3	300
B50R_100_100_e	34.6	47.7	-29.1	55.9	328
B75R_100_100_e	47.4	69.7	-9.7	70.3	352



% Gamut

$u^*_{rel} = 114$

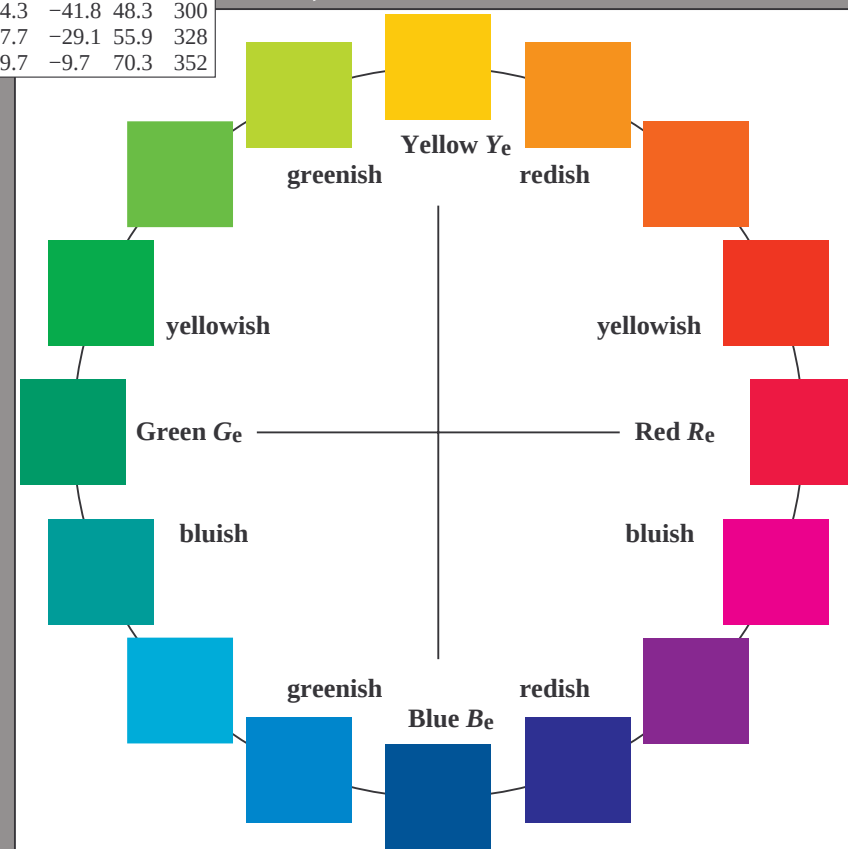
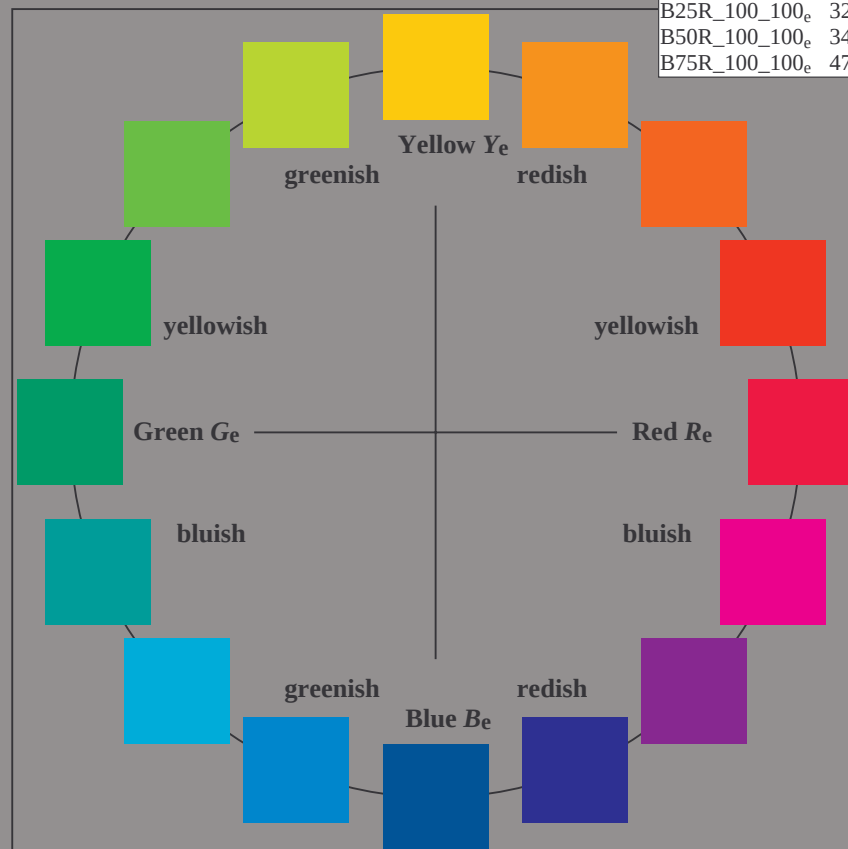
% Regularity

$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

LRS18a; adapted (a) CIELAB data

name	$L^*=L_a^*a_a^*$	b_a^*	$C_{ab,a}^*$	$h_{ab,a}^*$	
Re,Ma	46.2	59.0	28.1	65.4	25
Ye,Ma	84.0	-3.1	78.1	78.1	92
Ge,Ma	55.0	-62.1	19.9	65.3	162
Ce,Ma	55.9	-37.6	-28.3	47.1	216
Be,Ma	37.3	1.4	-48.1	48.1	271
Me,Ma	34.6	47.7	-29.1	55.9	328
Ne,Ma	24.5	0.0	0.0	0.0	0
We,Ma	96.3	0.0	0.0	0.0	0
Re,CIE	39.9	58.7	27.9	65.0	25
Ye,CIE	81.2	-2.8	71.5	71.6	92
Ge,CIE	52.2	-42.4	13.6	44.5	162
Be,CIE	30.5	1.4	-46.4	46.4	271



RE840-73

1-113131-L0

TUB-test chart RE84; 16 step hue circle, $cf=1$
Test chart according to DIN 33872, 3D=1, $de=1$, $cmY0^*$

input: $rgb/cmyk \rightarrow rgb_{de}$
output: 3D-linearization to $cmY0^*_{de}$