

# Input and Output: Laser Reflective System LRS18a

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

$HIC^*$ -

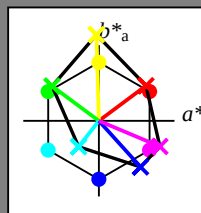
hue text for the colours

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

$u^*_{rel} = 114$

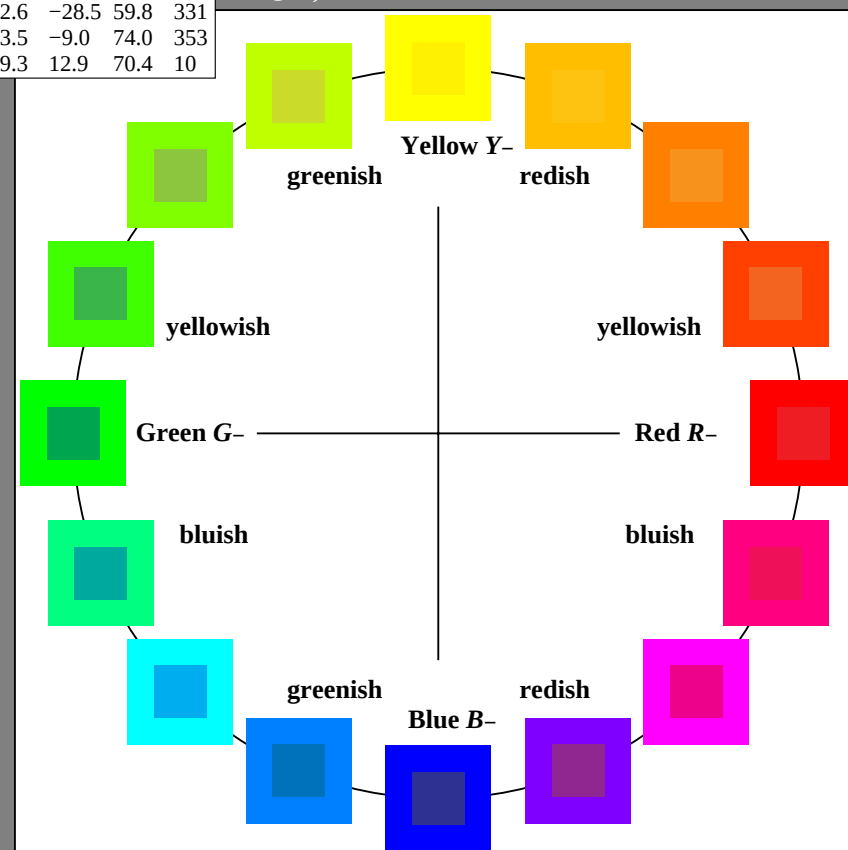
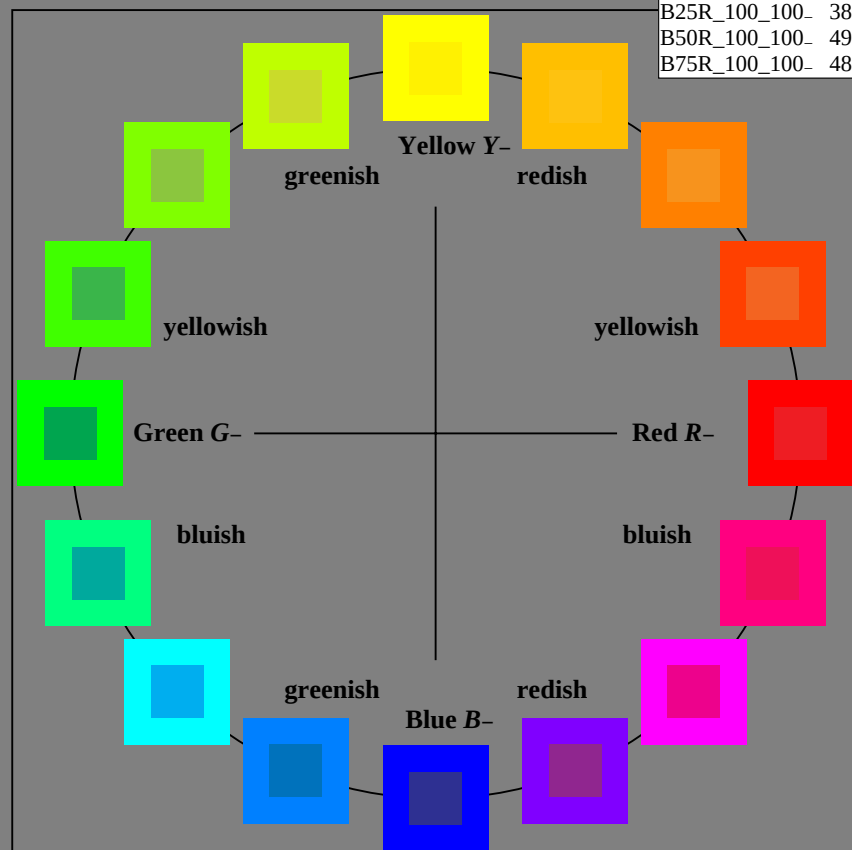
% Regularity

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

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

## 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         |



RE860-7N\_RGB 1-003030-L0

TUB-test chart RE86; 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:

 $HIC^*_d$ 

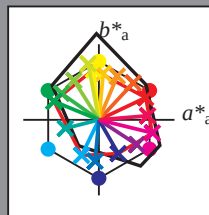
hue text for the colours

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 | 45.9              | 61.7    | 29.3         | 68.3         |
| R25Y_100_100_d | 57.6              | 45.4    | 48.7         | 66.6         |
| R50Y_100_100_d | 69.5              | 24.3    | 57.8         | 62.8         |
| R75Y_100_100_d | 81.1              | 5.7     | 61.4         | 61.7         |
| Y00G_100_100_d | 89.4              | -7.1    | 66.3         | 66.7         |
| Y25G_100_100_d | 88.3              | -14.2   | 73.9         | 75.3         |
| Y50G_100_100_d | 72.6              | -32.8   | 51.9         | 61.5         |
| Y75G_100_100_d | 60.9              | -49.3   | 34.9         | 60.4         |
| G00B_100_100_d | 54.1              | -59.5   | 24.4         | 64.3         |
| G25B_100_100_d | 55.4              | -44.3   | -11.3        | 45.7         |
| G50B_100_100_d | 52.1              | -22.8   | -47.0        | 52.2         |
| G75B_100_100_d | 45.3              | -5.0    | -54.6        | 54.9         |
| B00R_100_100_d | 32.3              | 25.6    | -44.5        | 51.4         |
| B25R_100_100_d | 35.4              | 50.1    | -32.6        | 59.8         |
| B50R_100_100_d | 46.8              | 70.7    | -17.3        | 72.8         |
| B75R_100_100_d | 44.4              | 64.5    | 5.3          | 64.7         |



% Gamut

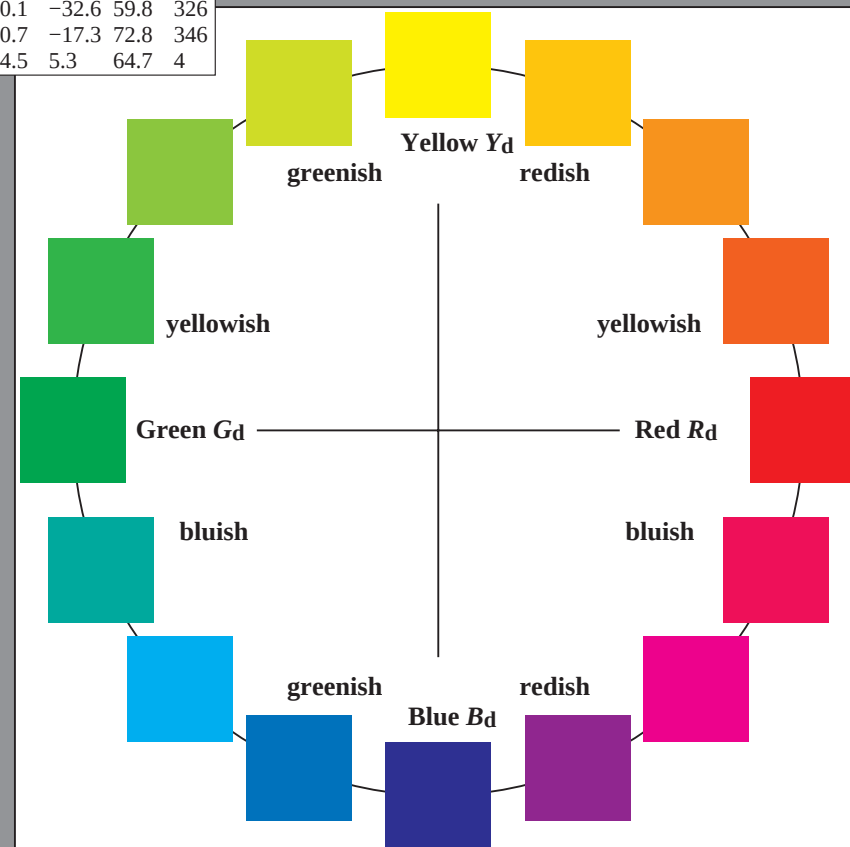
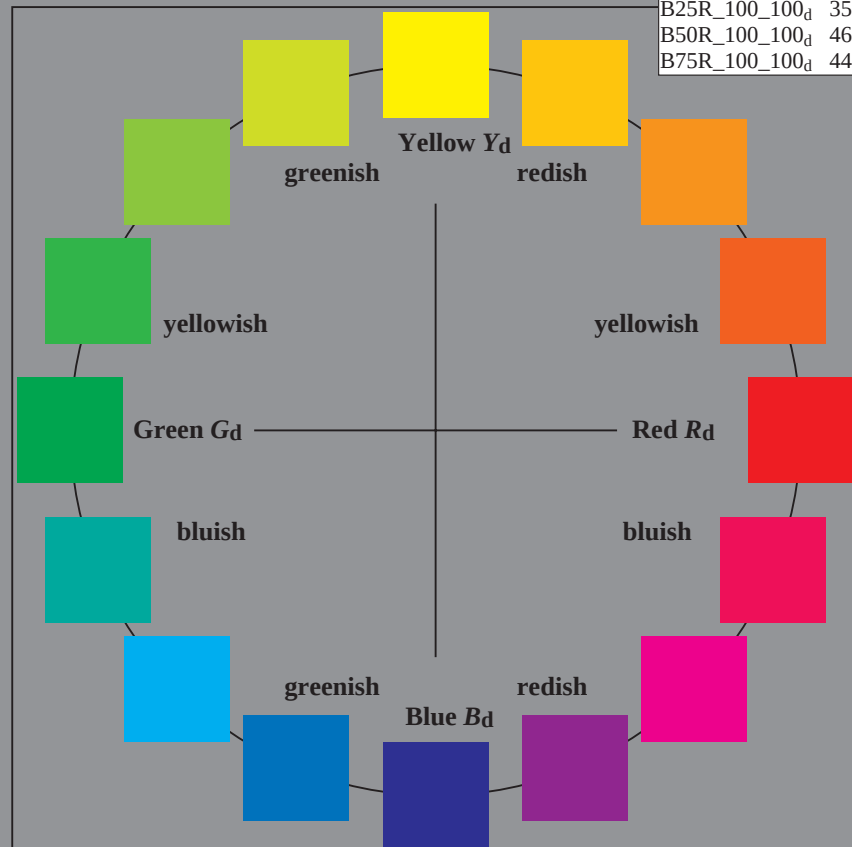
 $u^*_{rel} = 114$ 

% 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 <sub>d, Ma</sub>  | 45.9              | 61.7    | 29.3         | 68.3         |
| Y <sub>d, Ma</sub>  | 89.4              | -7.1    | 66.3         | 66.7         |
| G <sub>d, Ma</sub>  | 54.1              | -59.5   | 24.4         | 64.3         |
| C <sub>d, Ma</sub>  | 52.1              | -22.8   | -47.0        | 52.2         |
| B <sub>d, Ma</sub>  | 32.3              | 25.6    | -44.5        | 51.4         |
| M <sub>d, Ma</sub>  | 46.8              | 70.7    | -17.3        | 72.8         |
| N <sub>d, Ma</sub>  | 20.0              | 0.0     | 0.0          | 0            |
| W <sub>d, Ma</sub>  | 94.2              | 0.0     | 0.0          | 0            |
| R <sub>d, CIE</sub> | 39.9              | 58.7    | 27.9         | 65.0         |
| Y <sub>d, CIE</sub> | 81.2              | -2.8    | 71.5         | 71.6         |
| G <sub>d, CIE</sub> | 52.2              | -42.4   | 13.6         | 44.5         |
| B <sub>d, CIE</sub> | 30.5              | 1.4     | -46.4        | 46.4         |



RE860-70

1-003130-L0

TUB-test chart RE86; 16 step hue circle,  $cf=1$ Test chart according to DIN 33872, 3D=0, de=0, *cmYk*input: *rgb/cmyk*  $\rightarrow$  *rgb<sub>d</sub>*output: transfer to *cmYk<sub>d</sub>*

# Input and Output: Laser Reflective System LRS18a

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

$HIC^*$ -

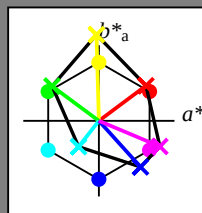
hue text for the colours

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

$u^*_{rel} = 114$

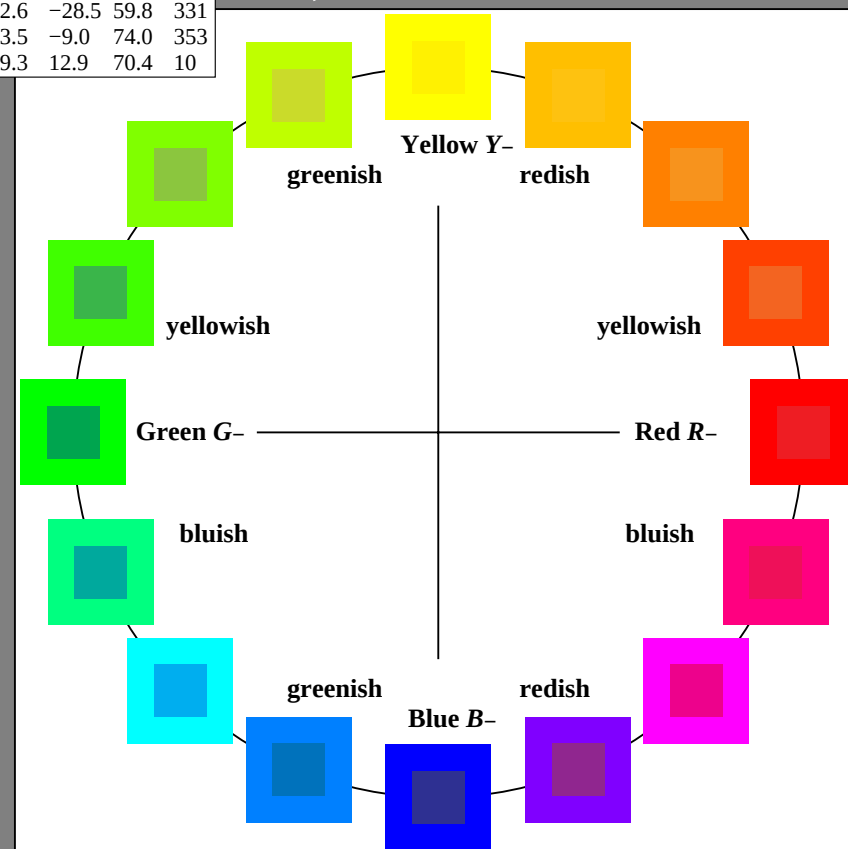
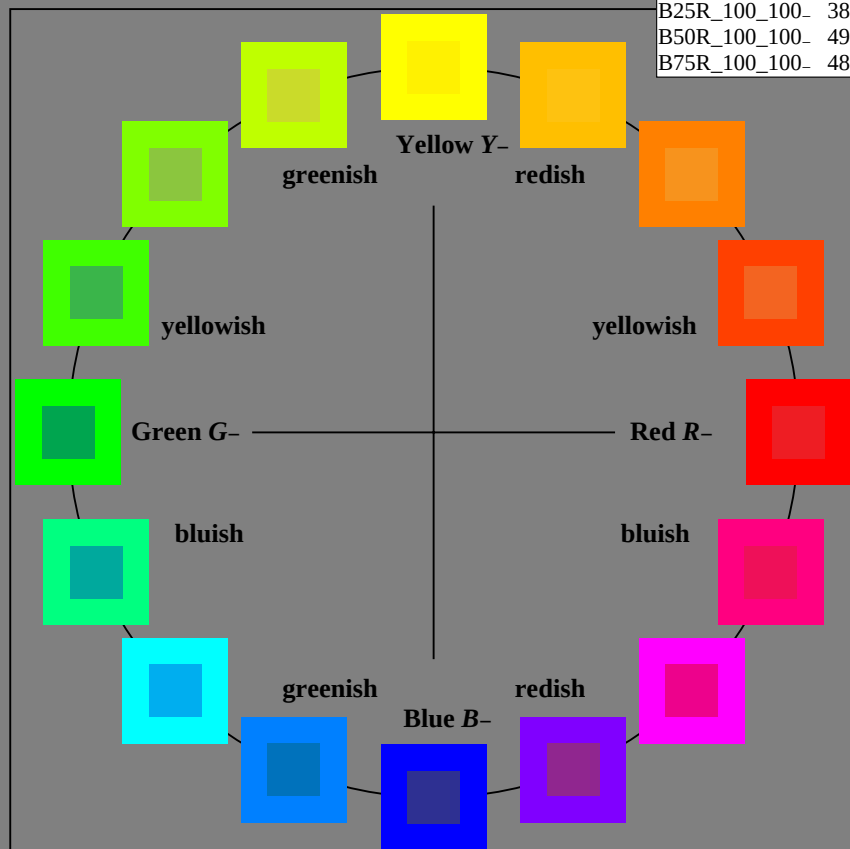
% Regularity

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

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

## 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         |



RE860-7N\_RGB 1-013030-L0

TUB-test chart RE86; 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:

 $HIC_e$ 

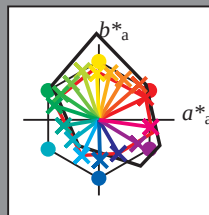
hue text for the colours

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 | 45.9              | 61.7    | 29.4         | 68.4         |
| R25Y_100_100_e | 53.7              | 53.2    | 46.3         | 70.6         |
| R50Y_100_100_e | 64.9              | 32.5    | 53.9         | 63.0         |
| R75Y_100_100_e | 75.4              | 14.6    | 62.1         | 63.9         |
| Y00G_100_100_e | 86.8              | -2.4    | 61.6         | 92           |
| Y25G_100_100_e | 82.1              | -21.8   | 64.9         | 68.5         |
| Y50G_100_100_e | 69.6              | -36.4   | 47.9         | 60.2         |
| Y75G_100_100_e | 60.3              | -50.1   | 33.9         | 60.5         |
| G00B_100_100_e | 53.8              | -58.7   | 18.8         | 61.6         |
| G25B_100_100_e | 55.0              | -46.7   | -7.9         | 47.4         |
| G50B_100_100_e | 56.0              | -34.7   | -26.1        | 43.4         |
| G75B_100_100_e | 52.0              | -22.6   | -47.2        | 52.4         |
| B00R_100_100_e | 40.0              | 1.6     | -53.4        | 53.5         |
| B25R_100_100_e | 32.3              | 25.8    | -44.4        | 51.4         |
| B50R_100_100_e | 36.4              | 51.8    | -31.6        | 60.6         |
| B75R_100_100_e | 45.5              | 68.6    | -9.5         | 69.3         |



% Gamut

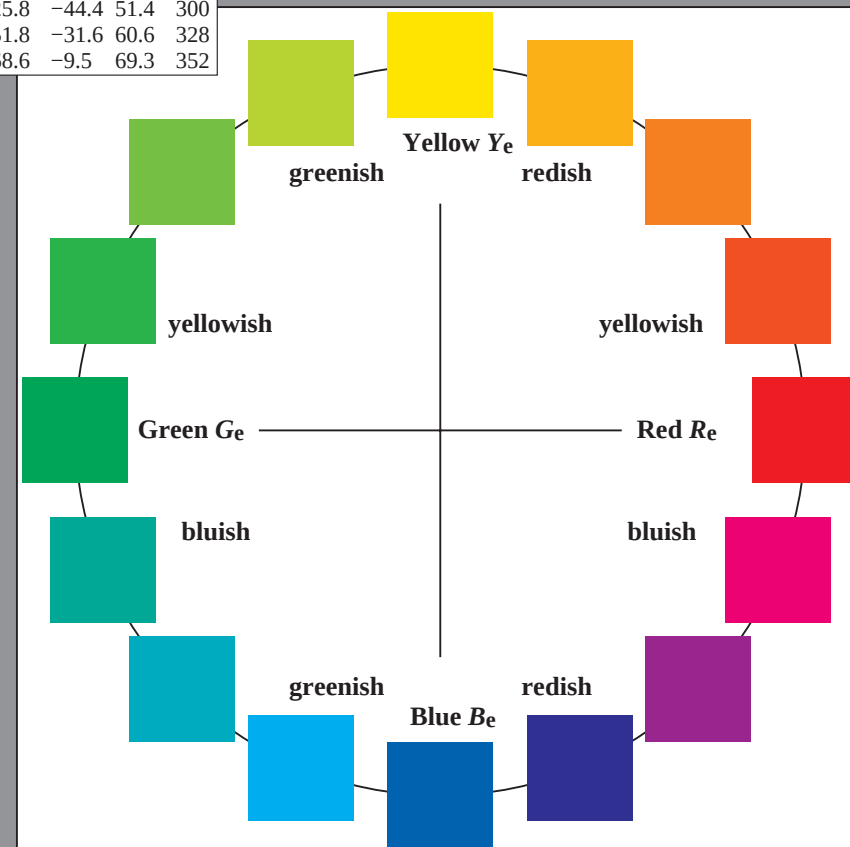
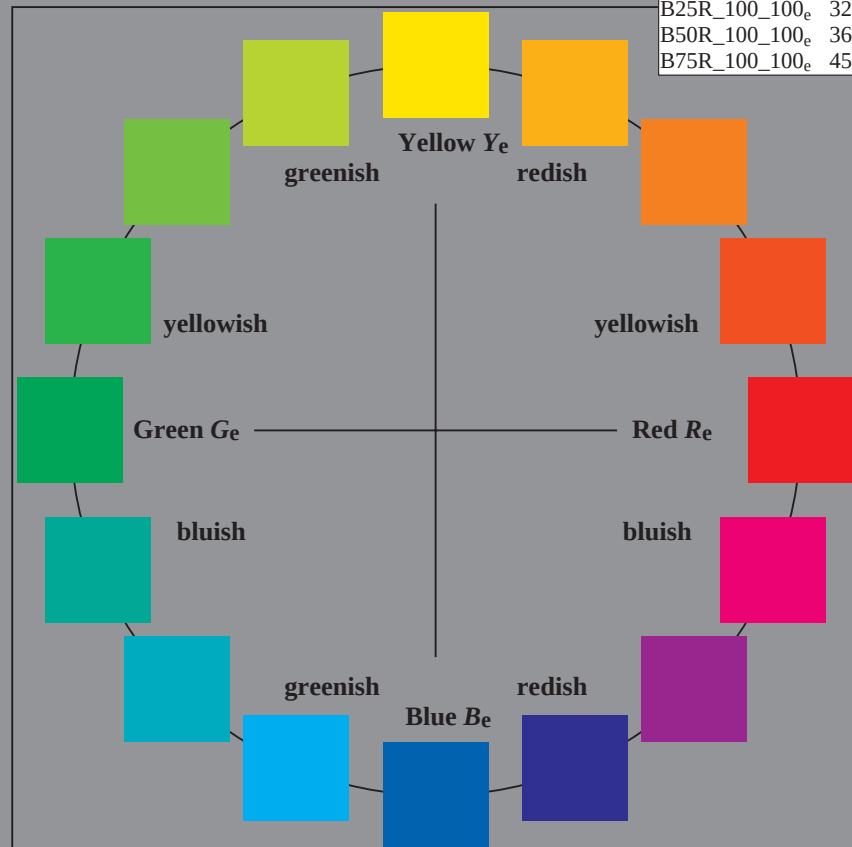
 $u^*_{rel} = 114$ 

% 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 <sub>e</sub> ,Ma  | 45.9              | 61.7    | 29.4         | 68.4         |
| Y <sub>e</sub> ,Ma  | 86.8              | -2.4    | 61.6         | 92           |
| G <sub>e</sub> ,Ma  | 53.8              | -58.7   | 18.8         | 61.6         |
| C <sub>e</sub> ,Ma  | 56.0              | -34.7   | -26.1        | 43.4         |
| B <sub>e</sub> ,Ma  | 40.0              | 1.6     | -53.4        | 53.5         |
| M <sub>e</sub> ,Ma  | 36.4              | 51.8    | -31.6        | 60.6         |
| N <sub>e</sub> ,Ma  | 20.0              | 0.0     | 0.0          | 0            |
| W <sub>e</sub> ,Ma  | 94.2              | 0.0     | 0.0          | 0            |
| R <sub>e</sub> ,CIE | 39.9              | 58.7    | 27.9         | 65.0         |
| Y <sub>e</sub> ,CIE | 81.2              | -2.8    | 71.5         | 71.6         |
| G <sub>e</sub> ,CIE | 52.2              | -42.4   | 13.6         | 44.5         |
| B <sub>e</sub> ,CIE | 30.5              | 1.4     | -46.4        | 46.4         |



RE860-71

1-013130-L0

TUB-test chart RE86; 16 step hue circle,  $cf=1$   
Test chart according to DIN 33872, 3D=0,  $de=1$ , *cmYk*input: *rgb/cmyk*  $\rightarrow$  *rgb<sub>e</sub>*  
output: transfer to *cmYk<sub>e</sub>*