

http://130.149.60.45/~farbmeterik/QE53/QE53L0FP.PDF /.PS; start output  
F: 3D-linearization QE53/QE53LE30FP.DAT in file (F), page 1/2

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 116/360 = 0.32$

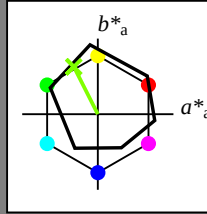
Data for any device (d) or elementary (e) colour:

$HIC^*$

hue text for the colours  
of this page:

$H^*_ = Y50G_-$

triangle lightness  $T^*$



| ORS18a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| name                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R <sub>-,Ma</sub>               | 47.9        | 65.3    | 50.5    | 82.6         | 37           |
| Y <sub>-,Ma</sub>               | 90.3        | -10.2   | 91.7    | 92.3         | 96           |
| G <sub>-,Ma</sub>               | 50.9        | -62.8   | 34.9    | 71.9         | 150          |
| C <sub>-,Ma</sub>               | 58.6        | -30.3   | -45.0   | 54.2         | 236          |
| B <sub>-,Ma</sub>               | 25.7        | 31.0    | -44.4   | 54.2         | 305          |
| M <sub>-,Ma</sub>               | 48.1        | 75.2    | -8.3    | 75.7         | 353          |
| N <sub>-,Ma</sub>               | 18.0        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>-,Ma</sub>               | 95.4        | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>-,CIE</sub>              | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| Y <sub>-,CIE</sub>              | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| G <sub>-,CIE</sub>              | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| B <sub>-,CIE</sub>              | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Data for maximum colour (Ma):

$LabCh^*_{-,Ma}$ : 73 -31 62 70 116

$HIC^*_{-,Ma}$ : Y50G\_100\_100\_

$rgbic^*_{-,Ma}$ :

0.5 1.0 0.0 1.0 1.0

triangle lightness  $T^*$

% Gamut

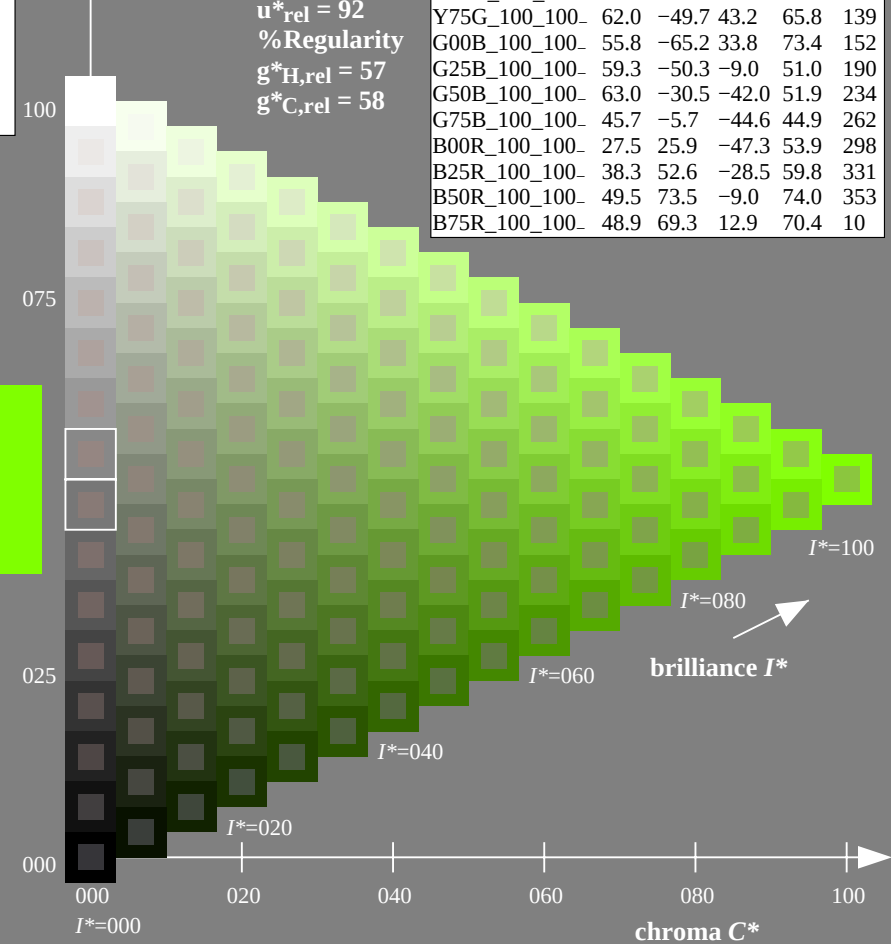
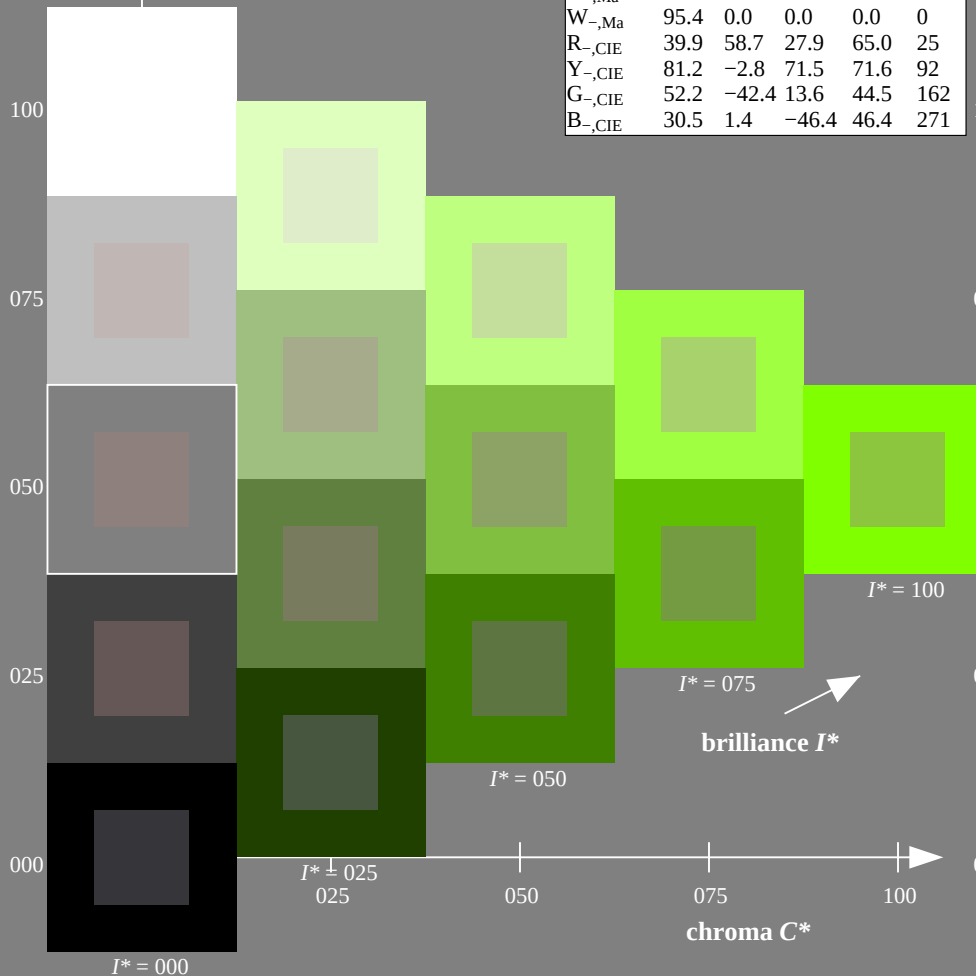
$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

| 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         | 31           |
| R25Y_100_100_                   | 56.8        | 48.0    | 50.5    | 69.6         | 46           |
| R50Y_100_100_                   | 68.6        | 25.0    | 63.9    | 68.6         | 68           |
| R75Y_100_100_                   | 80.6        | 4.8     | 77.2    | 77.3         | 86           |
| Y00G_100_100_                   | 90.2        | -9.6    | 88.2    | 88.7         | 96           |
| Y25G_100_100_                   | 83.2        | -18.4   | 79.9    | 81.9         | 102          |
| Y50G_100_100_                   | 73.3        | -31.7   | 62.7    | 70.2         | 116          |
| Y75G_100_100_                   | 62.0        | -49.7   | 43.2    | 65.8         | 139          |
| G00B_100_100_                   | 55.8        | -65.2   | 33.8    | 73.4         | 152          |
| G25B_100_100_                   | 59.3        | -50.3   | -9.0    | 51.0         | 190          |
| G50B_100_100_                   | 63.0        | -30.5   | -42.0   | 51.9         | 234          |
| G75B_100_100_                   | 45.7        | -5.7    | -44.6   | 44.9         | 262          |
| B00R_100_100_                   | 27.5        | 25.9    | -47.3   | 53.9         | 298          |
| B25R_100_100_                   | 38.3        | 52.6    | -28.5   | 59.8         | 331          |
| B50R_100_100_                   | 49.5        | 73.5    | -9.0    | 74.0         | 353          |
| B75R_100_100_                   | 48.9        | 69.3    | 12.9    | 70.4         | 10           |



TUB-test chart QE53; hue code:  $H^*_ = Y50G_-$   
Test chart according to DIN 33872, 3D=1, de=0,  $cmk^*$

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

http://130.149.60.45/~farbmetrik/QE53/QE53L0FP.PDF /.PS; 3D-linearization  
F: 3D-linearization QE53/QE53LE30FP.DAT in file (F), page 2/2

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 115/360 = 0.32$

$H^*_d = Y50G_d$

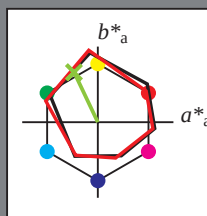
Data for any device (d) or elementary (e) colour:

$HIC^*_d$

hue text for the colours  
of this page:

$H^*_d = Y50G_d$

triangle lightness  $T^*$



| ORS20a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| name                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| $R_{d,Ma}$                      | 47.3        | 63.8    | 41.2    | 76.0         | 32           |
| $Y_{d,Ma}$                      | 88.3        | -11.9   | 95.1    | 95.8         | 97           |
| $G_{d,Ma}$                      | 51.9        | -68.8   | 28.1    | 74.3         | 157          |
| $C_{d,Ma}$                      | 58.3        | -29.2   | -43.7   | 52.6         | 236          |
| $B_{d,Ma}$                      | 25.3        | 23.5    | -47.3   | 52.8         | 296          |
| $M_{d,Ma}$                      | 48.2        | 72.8    | -8.5    | 73.3         | 353          |
| $N_{d,Ma}$                      | 17.7        | 0.0     | 0.0     | 0.0          | 0            |
| $W_{d,Ma}$                      | 95.4        | 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          |

Data for maximum colour (Ma):

$LabCh^*_{d,Ma}$ : 72 -31 66 73 115

$HIC^*_{d,Ma}$ : Y50G\_100\_100d

$rgbic^*_{d,Ma}$ :

0.5 1.0 0.0 1.0 1.0

triangle lightness  $T^*$

% Gamut

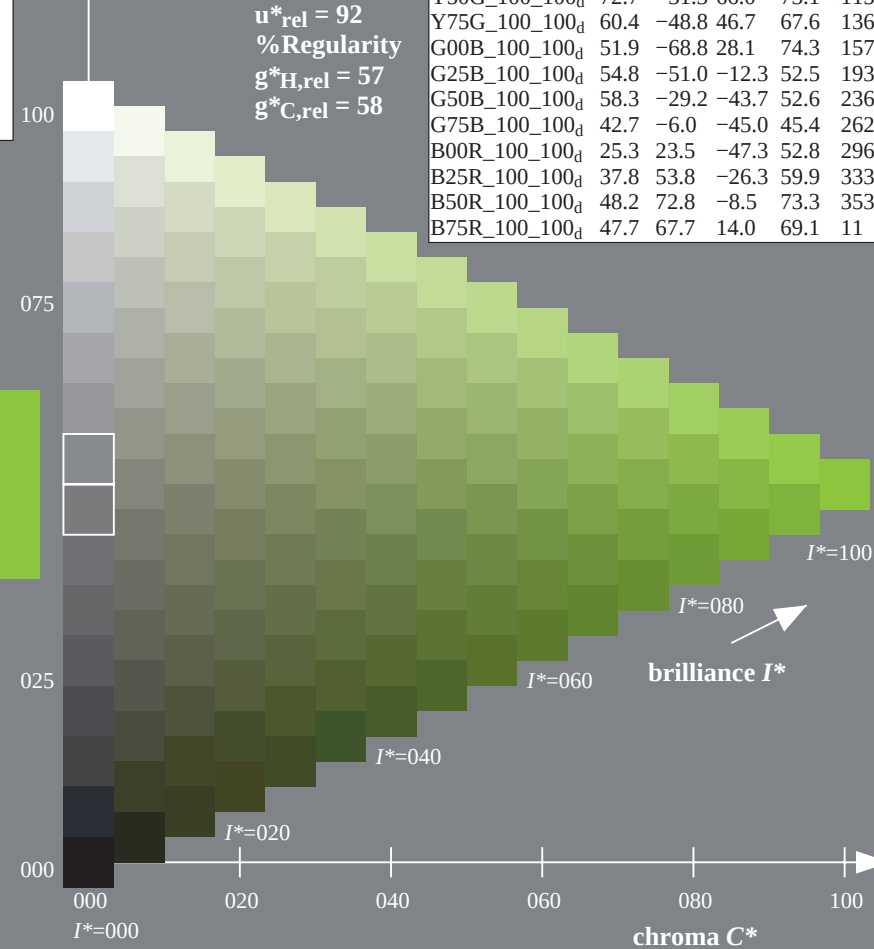
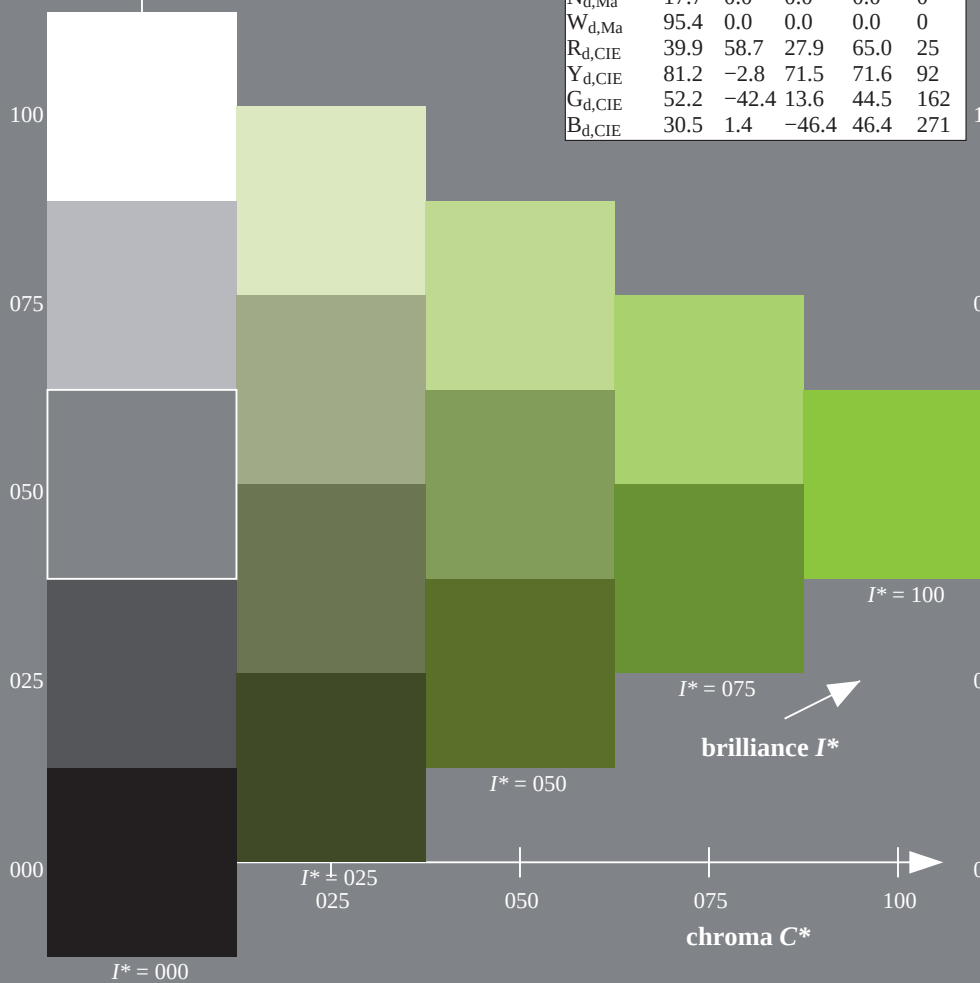
$u^*_{rel} = 92$

% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

| ORS20a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| $H^*_d$                         | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| $R00Y_{100_100d}$               | 47.3        | 63.8    | 41.2    | 76.0         | 32           |
| $R25Y_{100_100d}$               | 55.3        | 45.8    | 52.2    | 69.5         | 48           |
| $R50Y_{100_100d}$               | 67.2        | 22.6    | 67.6    | 71.2         | 71           |
| $R75Y_{100_100d}$               | 79.9        | 1.0     | 83.9    | 83.9         | 89           |
| $Y00G_{100_100d}$               | 88.3        | -11.9   | 95.1    | 95.8         | 97           |
| $Y25G_{100_100d}$               | 83.3        | -19.2   | 83.7    | 85.9         | 102          |
| $Y50G_{100_100d}$               | 72.7        | -31.3   | 66.0    | 73.1         | 115          |
| $Y75G_{100_100d}$               | 60.4        | -48.8   | 46.7    | 67.6         | 136          |
| $G00B_{100_100d}$               | 51.9        | -68.8   | 28.1    | 74.3         | 157          |
| $G25B_{100_100d}$               | 54.8        | -51.0   | -12.3   | 52.5         | 193          |
| $G50B_{100_100d}$               | 58.3        | -29.2   | -43.7   | 52.6         | 236          |
| $G75B_{100_100d}$               | 42.7        | -6.0    | -45.0   | 45.4         | 262          |
| $B00R_{100_100d}$               | 25.3        | 23.5    | -47.3   | 52.8         | 296          |
| $B25R_{100_100d}$               | 37.8        | 53.8    | -26.3   | 59.9         | 333          |
| $B50R_{100_100d}$               | 48.2        | 72.8    | -8.5    | 73.3         | 353          |
| $B75R_{100_100d}$               | 47.7        | 67.7    | 14.0    | 69.1         | 11           |



1-103130-L0 QE530-72

TUB-test chart QE53; hue code:  $H^*_d=Y50G_d$

Test chart according to DIN 33872, 3D=1, de=0,  $cm\dot{y}k^*$

input:  $rgb/cmyk \rightarrow rgb_{dd}$

output: 3D-linearization to  $cm\dot{y}k^*_{dd}$

TUB registration: 20130201-QE53/QE53L0FP.PDF /.PS  
application for measurement of offset print output, separation  $cm\dot{y}n\dot{b}^*$  (CMYK)

TUB material: code=rha4ta

http://130.149.60.45/~farbmetrik/QE53/QE53L0FP.PDF /.PS; start output  
F: 3D-linearization QE53/QE53LE30FP.DAT in file (F), page 1/2

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 116/360 = 0.32$

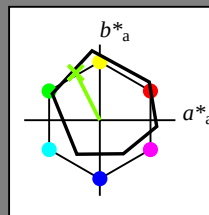
Data for any device (d) or elementary (e) colour:

$HIC^*$

hue text for the colours of this page:

$H^*_- = Y50G_-$

triangle lightness  $T^*$



| ORS18a; adapted (a) CIELAB data |             |         |         |              |              |
|---------------------------------|-------------|---------|---------|--------------|--------------|
| name                            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| R <sub>-,Ma</sub>               | 47.9        | 65.3    | 50.5    | 82.6         | 37           |
| Y <sub>-,Ma</sub>               | 90.3        | -10.2   | 91.7    | 92.3         | 96           |
| G <sub>-,Ma</sub>               | 50.9        | -62.8   | 34.9    | 71.9         | 150          |
| C <sub>-,Ma</sub>               | 58.6        | -30.3   | -45.0   | 54.2         | 236          |
| B <sub>-,Ma</sub>               | 25.7        | 31.0    | -44.4   | 54.2         | 305          |
| M <sub>-,Ma</sub>               | 48.1        | 75.2    | -8.3    | 75.7         | 353          |
| N <sub>-,Ma</sub>               | 18.0        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>-,Ma</sub>               | 95.4        | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>-,CIE</sub>              | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| Y <sub>-,CIE</sub>              | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| G <sub>-,CIE</sub>              | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| B <sub>-,CIE</sub>              | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Data for maximum colour (Ma):

$LabCh^*_{-,Ma}$ : 73 -31 62 70 116

$HIC^*_{-,Ma}$ : Y50G\_100\_100-

$rgbic^*_{-,Ma}$ :

0.5 1.0 0.0 1.0 1.0

triangle lightness  $T^*$

% Gamut

$u^*_{rel} = 92$

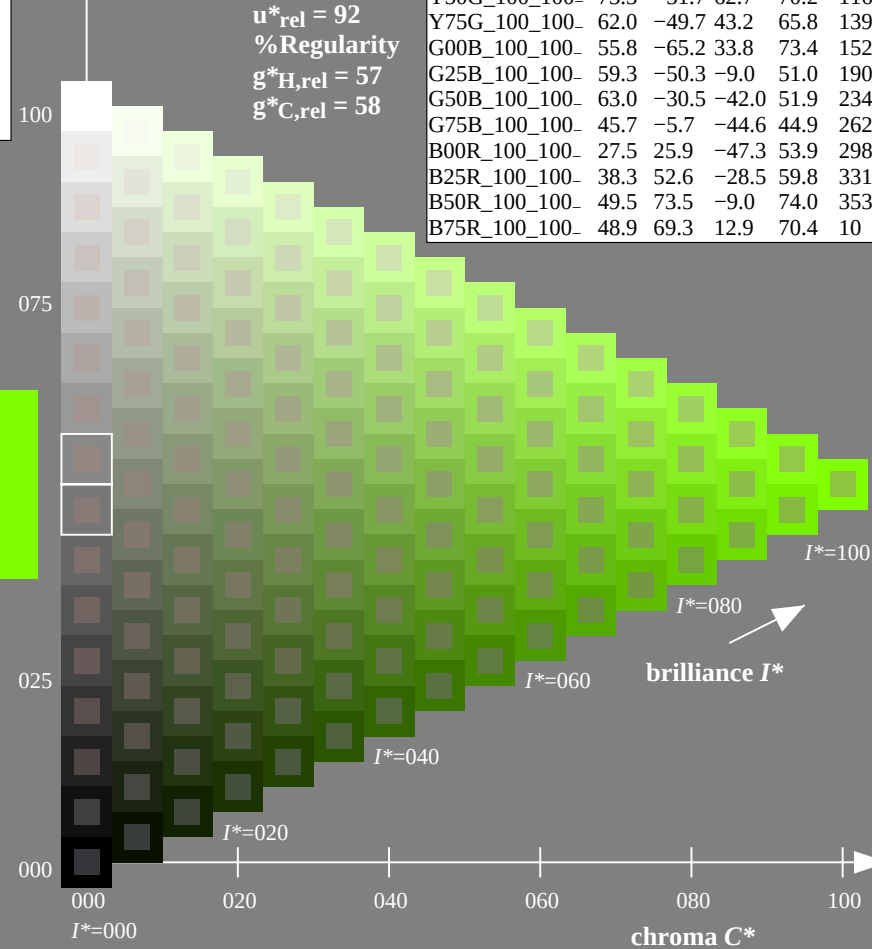
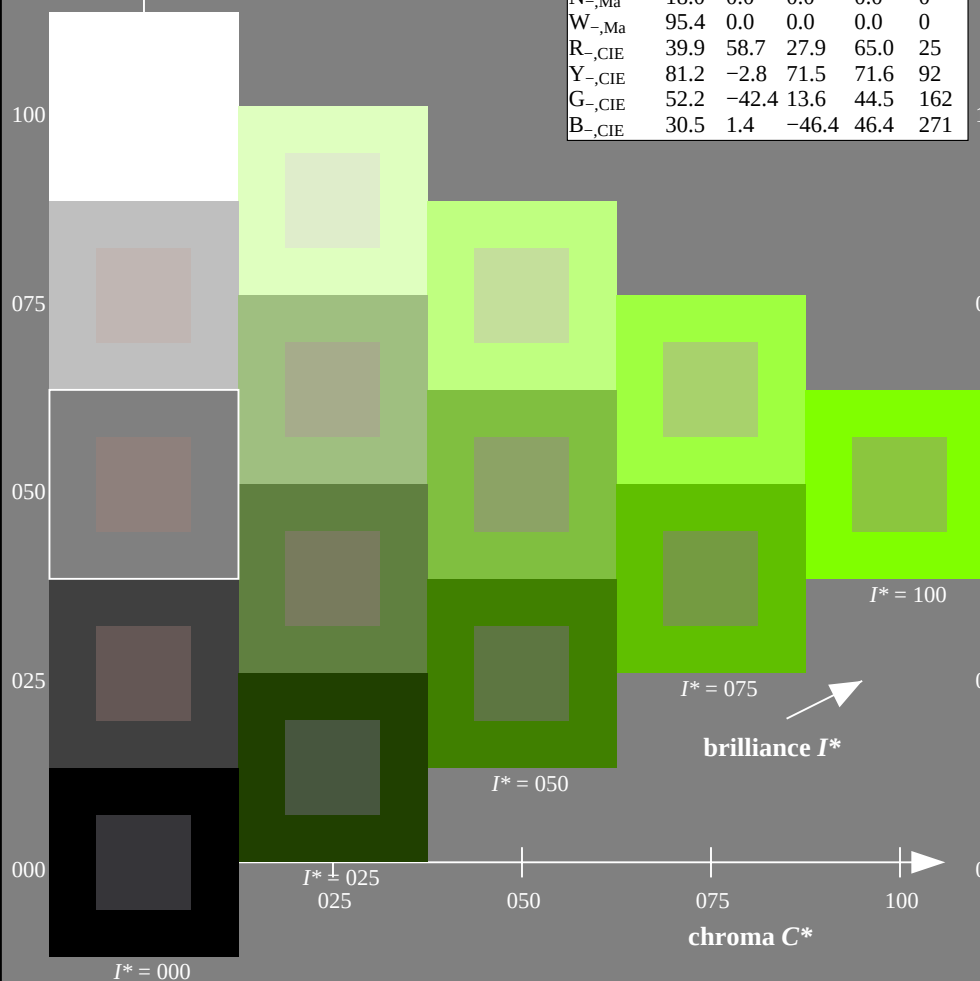
% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

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         | 31           |
| R25Y_100_100- | 56.8        | 48.0    | 50.5    | 69.6         | 46           |
| R50Y_100_100- | 68.6        | 25.0    | 63.9    | 68.6         | 68           |
| R75Y_100_100- | 80.6        | 4.8     | 77.2    | 77.3         | 86           |
| Y00G_100_100- | 90.2        | -9.6    | 88.2    | 88.7         | 96           |
| Y25G_100_100- | 83.2        | -18.4   | 79.9    | 81.9         | 102          |
| Y50G_100_100- | 73.3        | -31.7   | 62.7    | 70.2         | 116          |
| Y75G_100_100- | 62.0        | -49.7   | 43.2    | 65.8         | 139          |
| G00B_100_100- | 55.8        | -65.2   | 33.8    | 73.4         | 152          |
| G25B_100_100- | 59.3        | -50.3   | -9.0    | 51.0         | 190          |
| G50B_100_100- | 63.0        | -30.5   | -42.0   | 51.9         | 234          |
| G75B_100_100- | 45.7        | -5.7    | -44.6   | 44.9         | 262          |
| B00R_100_100- | 27.5        | 25.9    | -47.3   | 53.9         | 298          |
| B25R_100_100- | 38.3        | 52.6    | -28.5   | 59.8         | 331          |
| B50R_100_100- | 49.5        | 73.5    | -9.0    | 74.0         | 353          |
| B75R_100_100- | 48.9        | 69.3    | 12.9    | 70.4         | 10           |



1-113030-L0 QE530-7N

TUB-test chart QE53; hue code:  $H^*_- = Y50G_-$   
Test chart according to DIN 33872, 3D=1, de=1,  $cm^*$

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

http://130.149.60.45/~farbmetrik/QE53/QE53L0FP.PDF /.PS; 3D-linearization  
F: 3D-linearization QE53/QE53LE30FP.DAT in file (F), page 2/2

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 127/360 = 0.35$

$H^*_e = Y50G_e$

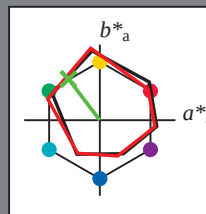
Data for any device (d) or elementary (e) colour:

$HIC^*_e$

hue text for the colours  
of this page:

$H^*_e = Y50G_e$

triangle lightness  $T^*$



ORS20a; adapted (a) CIELAB data

| name       | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------|-------------|---------|---------|--------------|--------------|
| $R_e, Ma$  | 47.6        | 64.9    | 30.9    | 71.9         | 25           |
| $Y_e, Ma$  | 82.9        | -3.5    | 87.8    | 87.9         | 92           |
| $G_e, Ma$  | 52.4        | -67.1   | 21.5    | 70.5         | 162          |
| $C_e, Ma$  | 56.6        | -39.7   | -29.9   | 49.8         | 216          |
| $B_e, Ma$  | 37.9        | 1.3     | -45.4   | 45.4         | 271          |
| $M_e, Ma$  | 34.8        | 49.2    | -30.0   | 57.7         | 328          |
| $N_e, Ma$  | 17.7        | 0.0     | 0.0     | 0.0          | 0            |
| $W_e, Ma$  | 95.4        | 0.0     | 0.0     | 0.0          | 0            |
| $R_e, CIE$ | 39.9        | 58.7    | 27.9    | 65.0         | 25           |
| $Y_e, CIE$ | 81.2        | -2.8    | 71.5    | 71.6         | 92           |
| $G_e, CIE$ | 52.2        | -42.4   | 13.6    | 44.5         | 162          |
| $B_e, CIE$ | 30.5        | 1.4     | -46.4   | 46.4         | 271          |

Data for maximum colour (Ma):

$LabCh^*_e, Ma$ : 65 -41 54 68 127

$HIC^*_e, Ma$ : Y50G\_100\_100<sub>e</sub>

$rgbic^*_e, Ma$ :

0.32 1.0 0.0 1.0 1.0

triangle lightness  $T^*$

% Gamut

$u^*_{rel} = 92$

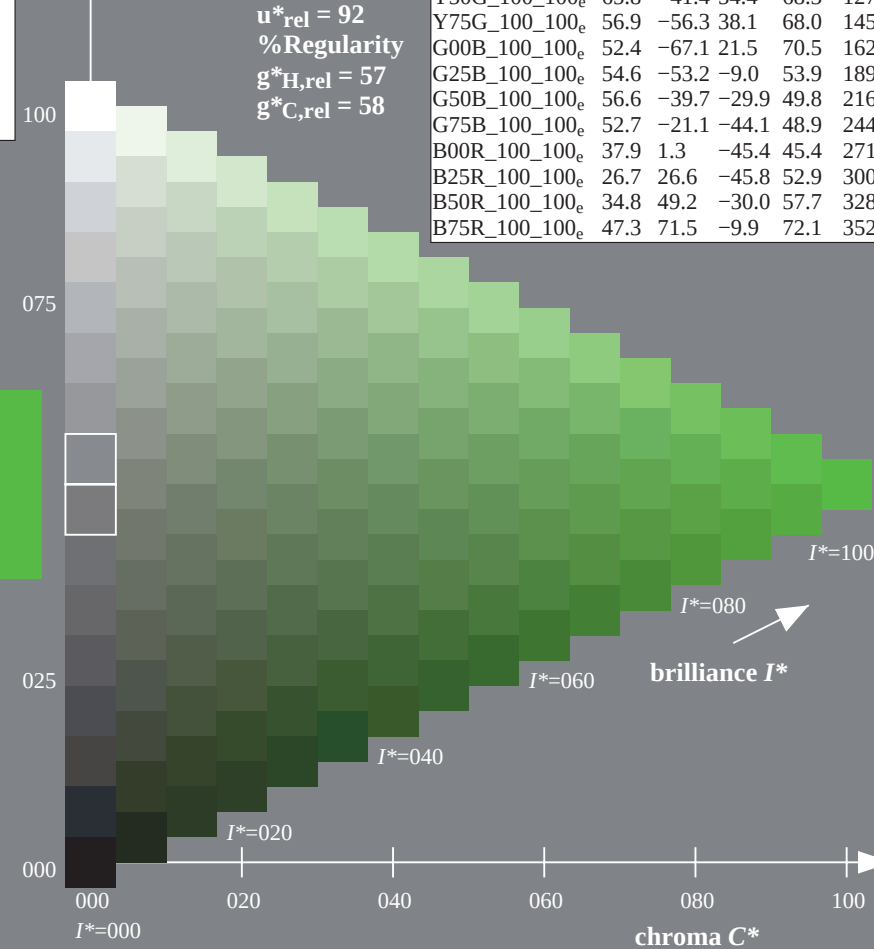
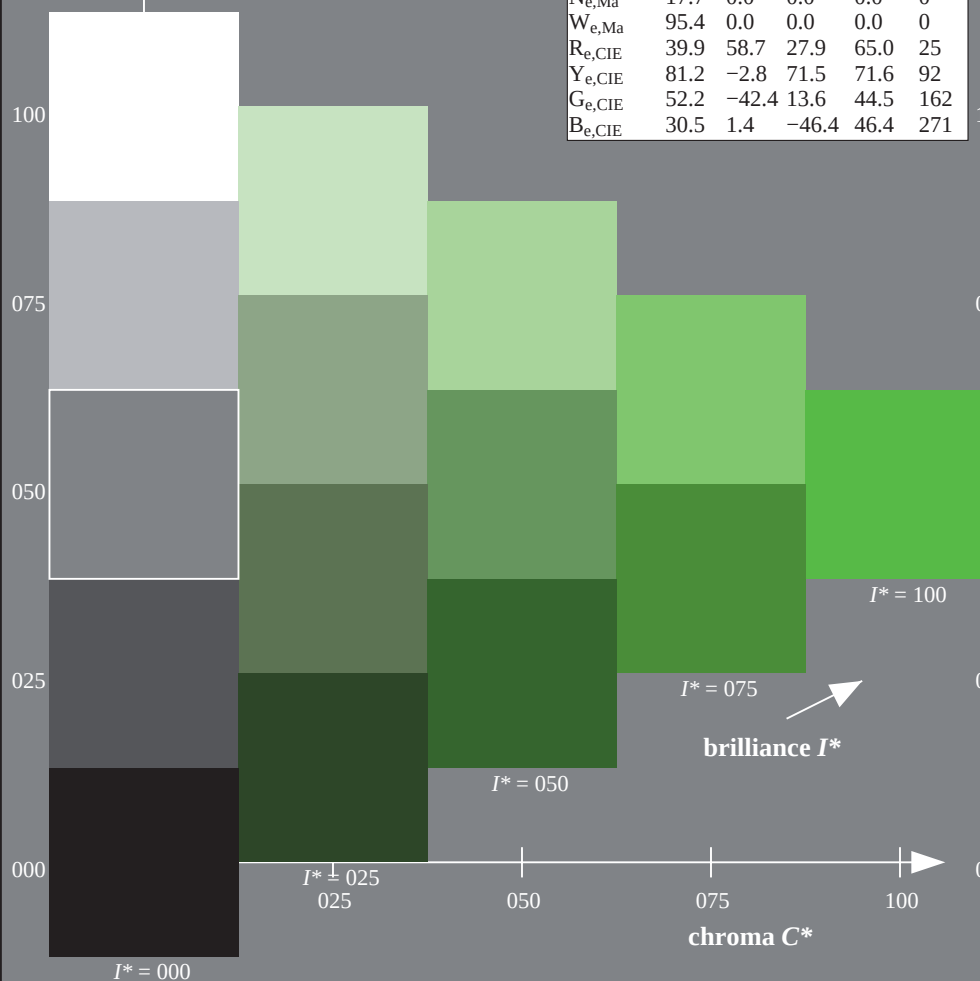
% Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 58$

ORS20a; adapted (a) CIELAB data

| $H^*_e$            | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| $R00Y\_100\_100_e$ | 47.6        | 64.9    | 30.9    | 71.9         | 25           |
| $R25Y\_100\_100_e$ | 51.5        | 54.2    | 47.2    | 71.9         | 41           |
| $R50Y\_100\_100_e$ | 60.3        | 35.6    | 59.0    | 68.9         | 58           |
| $R75Y\_100\_100_e$ | 70.4        | 17.0    | 72.2    | 74.1         | 76           |
| $Y00G\_100\_100_e$ | 82.9        | -3.5    | 87.8    | 87.9         | 92           |
| $Y25G\_100\_100_e$ | 76.9        | -25.5   | 75.9    | 80.1         | 108          |
| $Y50G\_100\_100_e$ | 65.8        | -41.4   | 54.4    | 68.3         | 127          |
| $Y75G\_100\_100_e$ | 56.9        | -56.3   | 38.1    | 68.0         | 145          |
| $G00B\_100\_100_e$ | 52.4        | -67.1   | 21.5    | 70.5         | 162          |
| $G25B\_100\_100_e$ | 54.6        | -53.2   | -9.0    | 53.9         | 189          |
| $G50B\_100\_100_e$ | 56.6        | -39.7   | -29.9   | 49.8         | 216          |
| $G75B\_100\_100_e$ | 52.7        | -21.1   | -44.1   | 48.9         | 244          |
| $B00R\_100\_100_e$ | 37.9        | 1.3     | -45.4   | 45.4         | 271          |
| $B25R\_100\_100_e$ | 26.7        | 26.6    | -45.8   | 52.9         | 300          |
| $B50R\_100\_100_e$ | 34.8        | 49.2    | -30.0   | 57.7         | 328          |
| $B75R\_100\_100_e$ | 47.3        | 71.5    | -9.9    | 72.1         | 352          |



1-113130-L0 QE530-73

TUB-test chart QE53; hue code:  $H^*_e = Y50G_e$   
Test chart according to DIN 33872, 3D=1,  $de=1$ ,  $cm\dot{y}k^*$

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

TUB registration: 20130201-QE53/QE53L0FP.PDF /.PS  
application for measurement of offset print output, separation  $cm\dot{y}n6^*$  (CMYK)

TUB material: code=rha4ta