

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 86/360 = 0.24$

$H^*_- = R75Y_-$

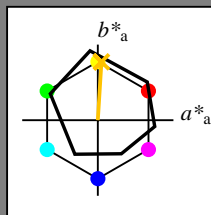
Data for any device (d) or elementary (e) colour:

$HIC^*_-$

hue text for the colours of this page:

$H^*_- = R75Y_-$

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):

$LabCh^*_{-,Ma}$ : 80 4 77 77 86

$HIC^*_{-,Ma}$ : R75Y\_100\_100\_

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

1.0 0.76 0.0 1.0 1.0

triangle lightness  $T^*$

%Gamut

$u^*_{rel} = 92$

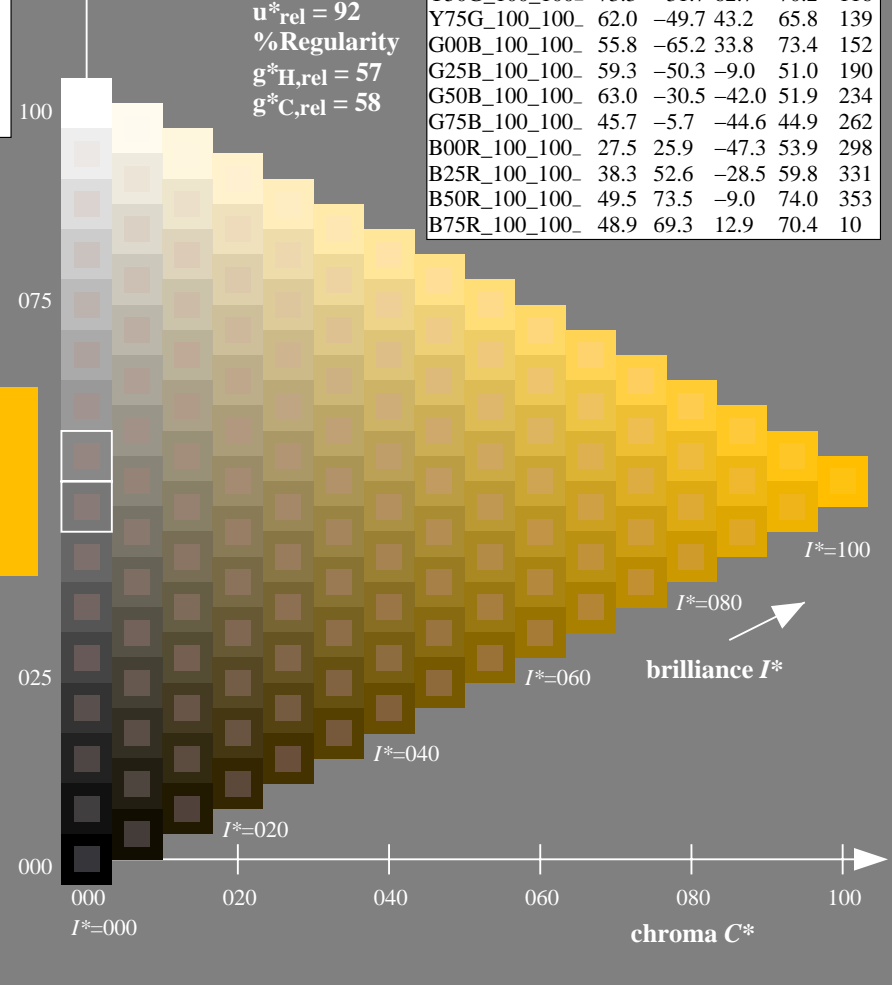
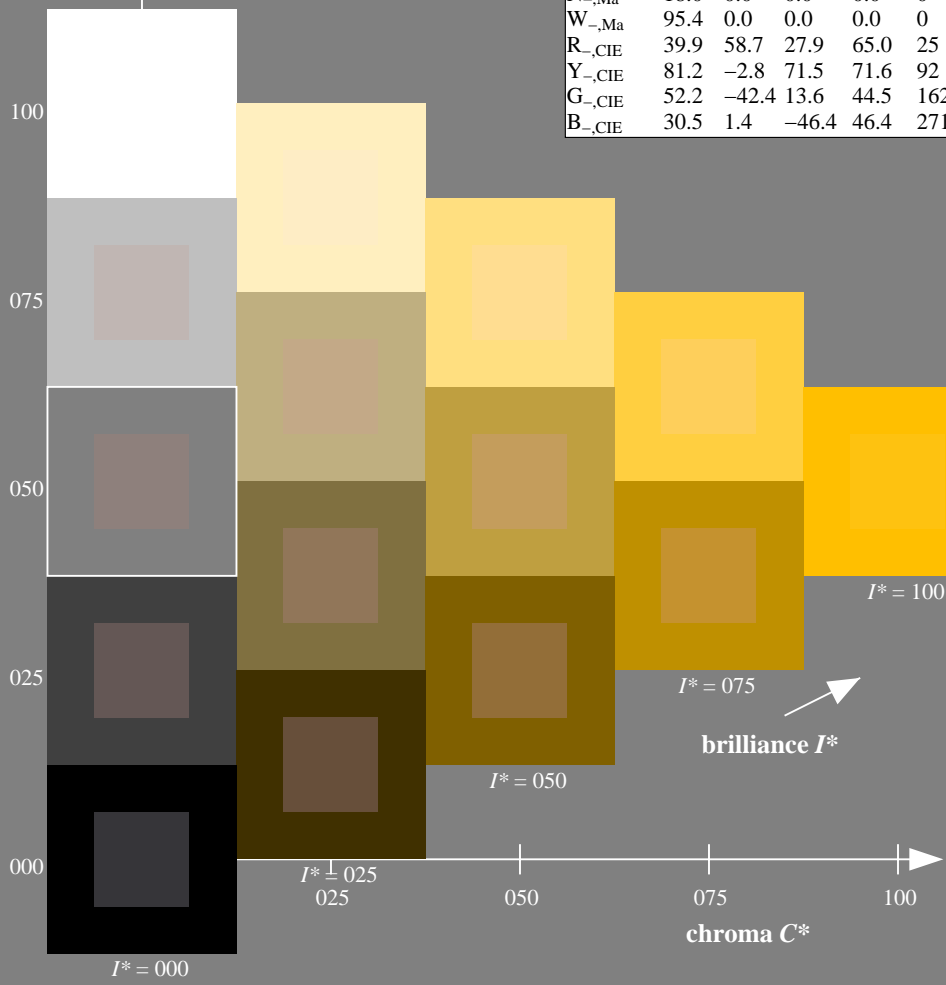
%Regularity

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

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

**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



see similar files: <http://130.149.60.45/~farbmetrik/QE24/QE24.HTM>  
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-QE24/QE24L0NA.TXT /PS  
 application for measurement of offset print output

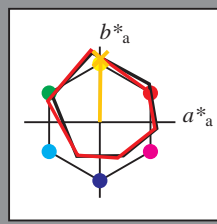
TUB material: code=rh4ta

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 89/360 = 0.24$

$H^*_d = R75Y_d$

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

$HIC^*_d$   
hue text for the colours of this page:  
 $H^*_d = R75Y_d$   
triangle lightness  $T^*$



ORS20a; adapted (a) CIELAB data

name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R <sub>d,Ma</sub>	47.3	63.8	41.2	76.0	32
Y <sub>d,Ma</sub>	88.3	-11.9	95.1	95.8	97
G <sub>d,Ma</sub>	51.9	-68.8	28.1	74.3	157
C <sub>d,Ma</sub>	58.3	-29.2	-43.7	52.6	236
B <sub>d,Ma</sub>	25.3	23.5	-47.3	52.8	296
M <sub>d,Ma</sub>	48.2	72.8	-8.5	73.3	353
N <sub>d,Ma</sub>	17.7	0.0	0.0	0.0	0
W <sub>d,Ma</sub>	95.4	0.0	0.0	0.0	0
R <sub>d,CIE</sub>	39.9	58.7	27.9	65.0	25
Y <sub>d,CIE</sub>	81.2	-2.8	71.5	71.6	92
G <sub>d,CIE</sub>	52.2	-42.4	13.6	44.5	162
B <sub>d,CIE</sub>	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{d,Ma}: 79 \ 1 \ 83 \ 83 \ 89$

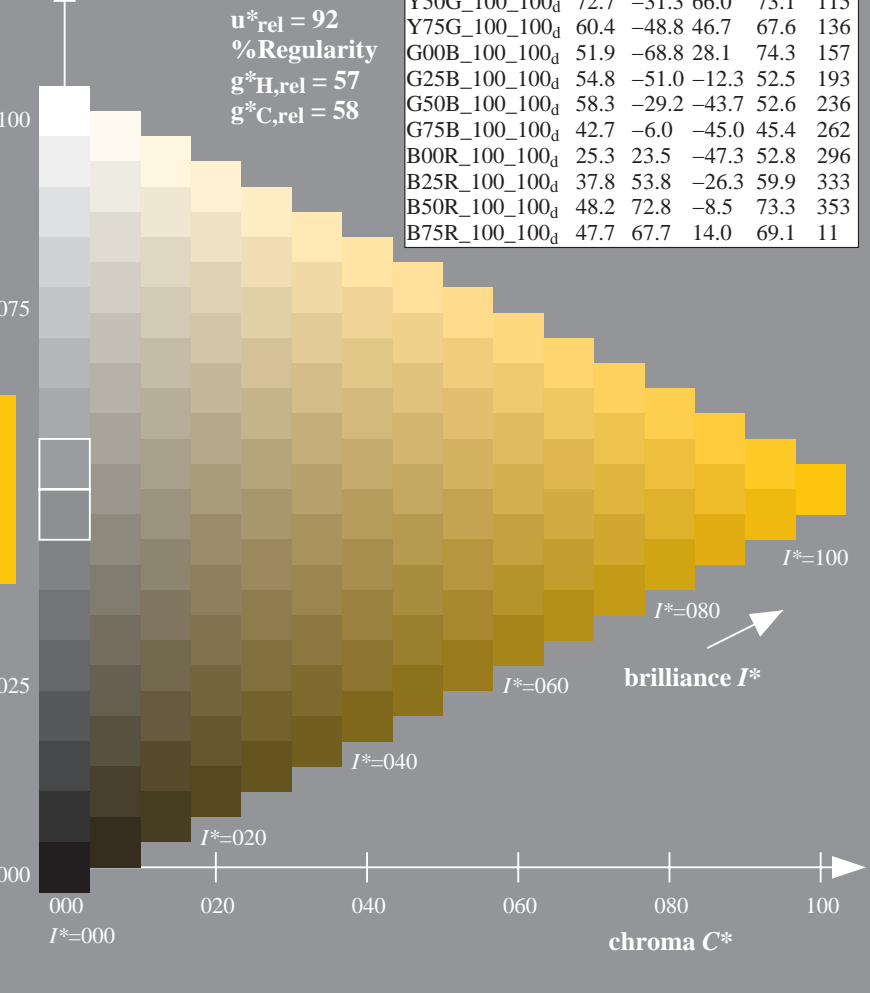
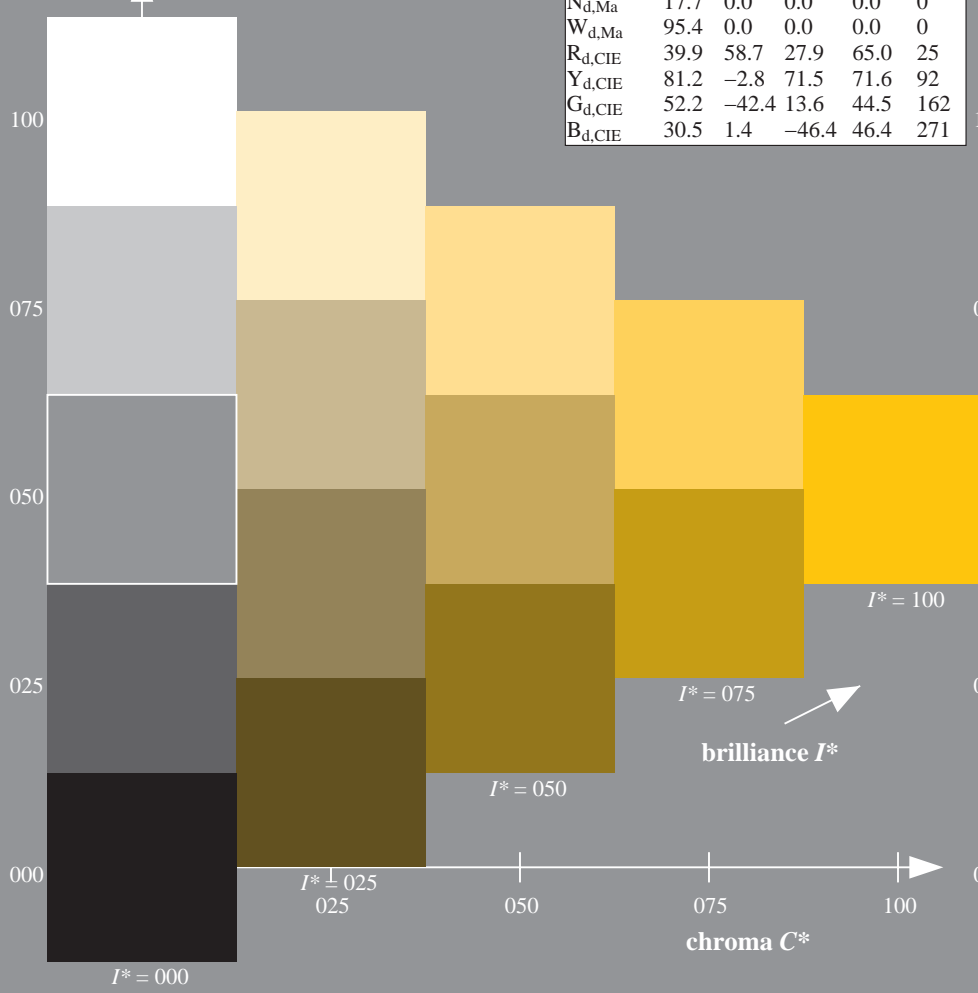
$HIC^*_{d,Ma}: R75Y\_100\_100_d$

$rgbic^*_{d,Ma}: 1.0 \ 0.76 \ 0.0 \ 1.0 \ 1.0$

triangle lightness  $T^*$

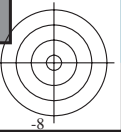
ORS20a; adapted (a) CIELAB data

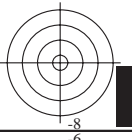
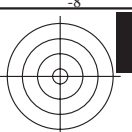
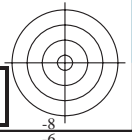
$H^*_d$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100 <sub>d</sub>	47.3	63.8	41.2	76.0	32
R25Y_100_100 <sub>d</sub>	55.3	45.8	52.2	69.5	48
R50Y_100_100 <sub>d</sub>	67.2	22.6	67.6	71.2	71
R75Y_100_100 <sub>d</sub>	79.9	1.0	83.9	83.9	89
Y00G_100_100 <sub>d</sub>	88.3	-11.9	95.1	95.8	97
Y25G_100_100 <sub>d</sub>	83.3	-19.2	83.7	85.9	102
Y50G_100_100 <sub>d</sub>	72.7	-31.3	66.0	73.1	115
Y75G_100_100 <sub>d</sub>	60.4	-48.8	46.7	67.6	136
G00B_100_100 <sub>d</sub>	51.9	-68.8	28.1	74.3	157
G25B_100_100 <sub>d</sub>	54.8	-51.0	-12.3	52.5	193
G50B_100_100 <sub>d</sub>	58.3	-29.2	-43.7	52.6	236
G75B_100_100 <sub>d</sub>	42.7	-6.0	-45.0	45.4	262
B00R_100_100 <sub>d</sub>	25.3	23.5	-47.3	52.8	296
B25R_100_100 <sub>d</sub>	37.8	53.8	-26.3	59.9	333
B50R_100_100 <sub>d</sub>	48.2	72.8	-8.5	73.3	353
B75R_100_100 <sub>d</sub>	47.7	67.7	14.0	69.1	11



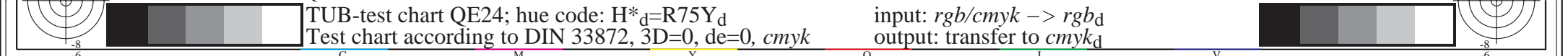
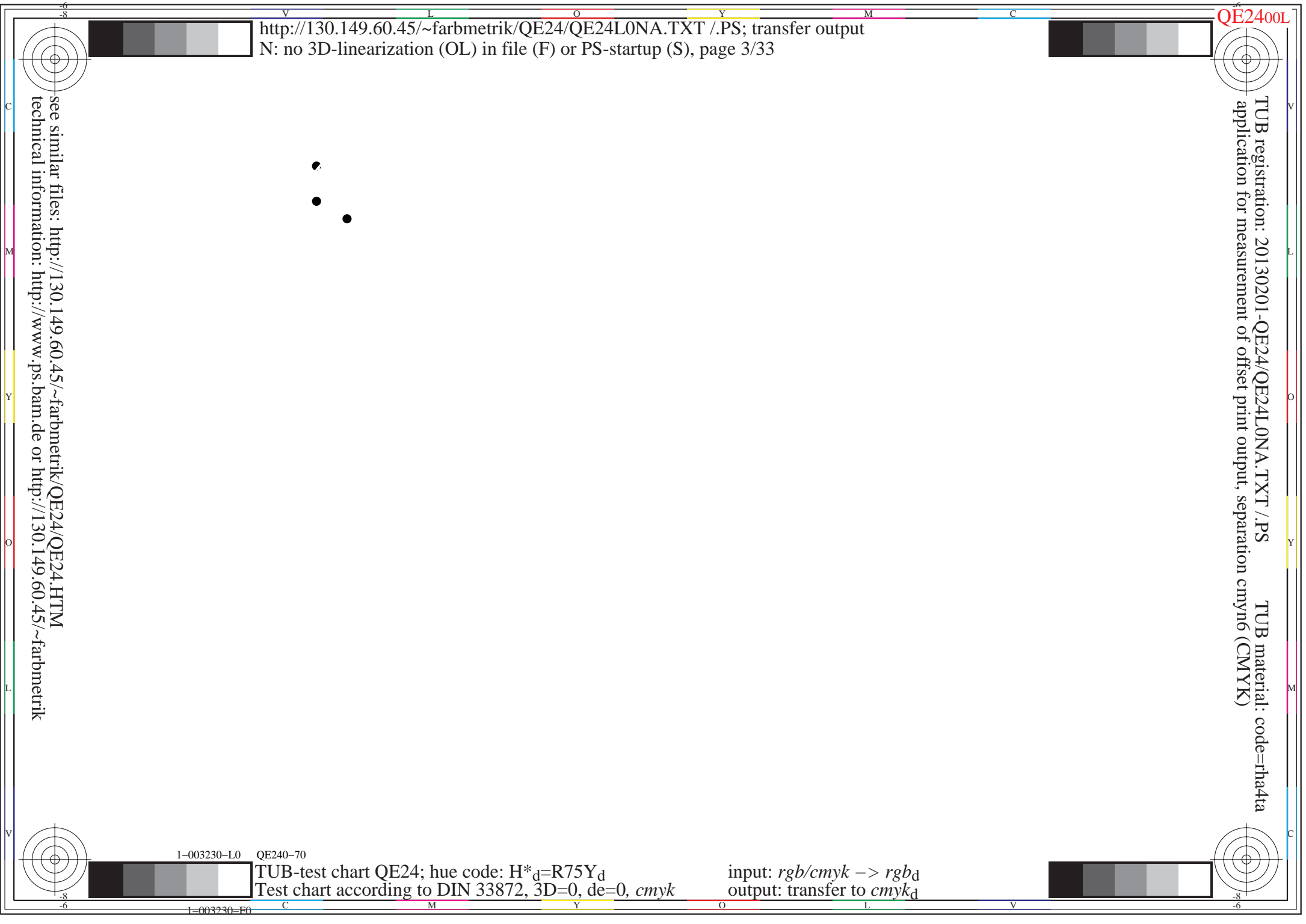
see similar files: http://130.149.60.45/~farbmetrik/QE24/QE24.HTM  
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20130201-QE24/QE24L0NA.TXT /PS  
application for measurement of offset print output, separation cmykn6 (CMYK)  
TUB material: code=rh4ta



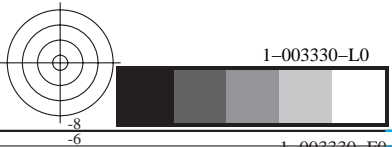
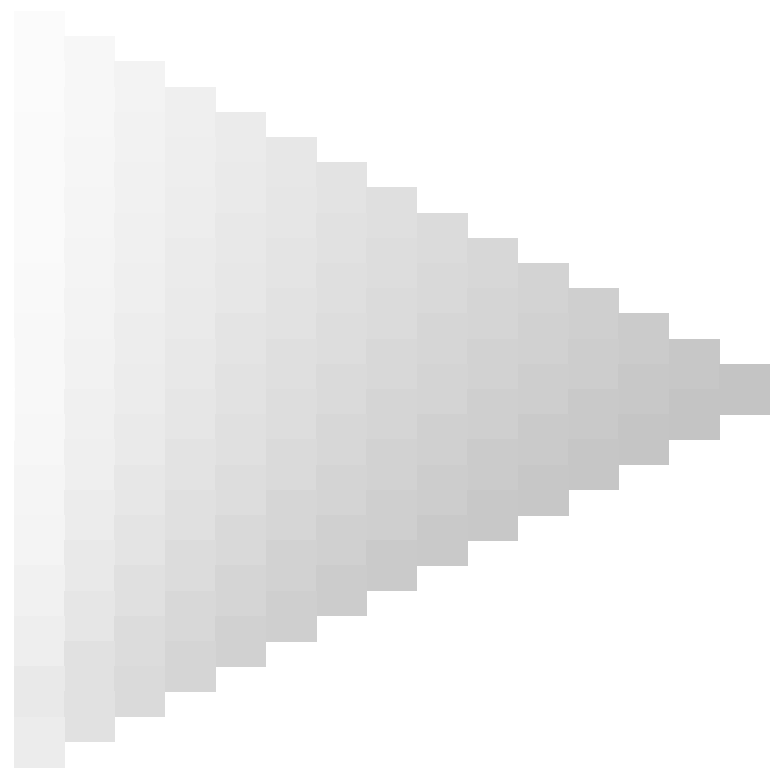
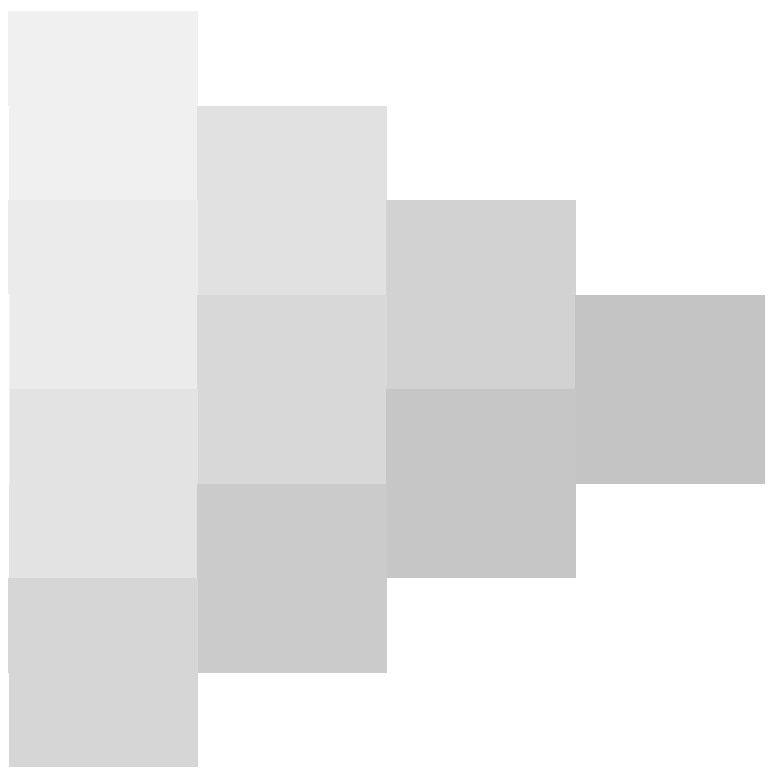
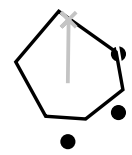


see similar files: <http://130.149.60.45/~farbmetrik/QE24/QE24.HTM>  
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>





see similar files: <http://130.149.60.45/~farbmetrik/QE24/QE24.HTM>  
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1-003330-L0 QE240-70

TUB-test chart QE24; hue code:  $H^*_d=R75Y_d$   
Test chart according to DIN 33872, 3D=0, de=0, cmyk

input: *rgb/cmyk* -> *rgb<sub>d</sub>*  
output: transfer to *cmyk<sub>d</sub>*

1-003330-F0



see similar files: <http://130.149.60.45/~farbmetrik/QE24/QE24.HTM>  
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

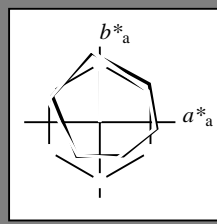


Input and Output: Offset Reflective System ORS18a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 89/360 = 0.24$

$H^*_d = R75Y_d$

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

$HIC^*_d$   
hue text for the colours of this page:  
 $H^*_d = R75Y_d$   
triangle lightness  $T^*$



ORS20a; adapted (a) CIELAB data

name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R <sub>d,Ma</sub>	47.3	63.8	41.2	76.0	32
Y <sub>d,Ma</sub>	88.3	-11.9	95.1	95.8	97
G <sub>d,Ma</sub>	51.9	-68.8	28.1	74.3	157
C <sub>d,Ma</sub>	58.3	-29.2	-43.7	52.6	236
B <sub>d,Ma</sub>	25.3	23.5	-47.3	52.8	296
M <sub>d,Ma</sub>	48.2	72.8	-8.5	73.3	353
N <sub>d,Ma</sub>	17.7	0.0	0.0	0.0	0
W <sub>d,Ma</sub>	95.4	0.0	0.0	0.0	0
R <sub>d,CIE</sub>	39.9	58.7	27.9	65.0	25
Y <sub>d,CIE</sub>	81.2	-2.8	71.5	71.6	92
G <sub>d,CIE</sub>	52.2	-42.4	13.6	44.5	162
B <sub>d,CIE</sub>	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{d,Ma}: 79 \ 1 \ 83 \ 83 \ 89$

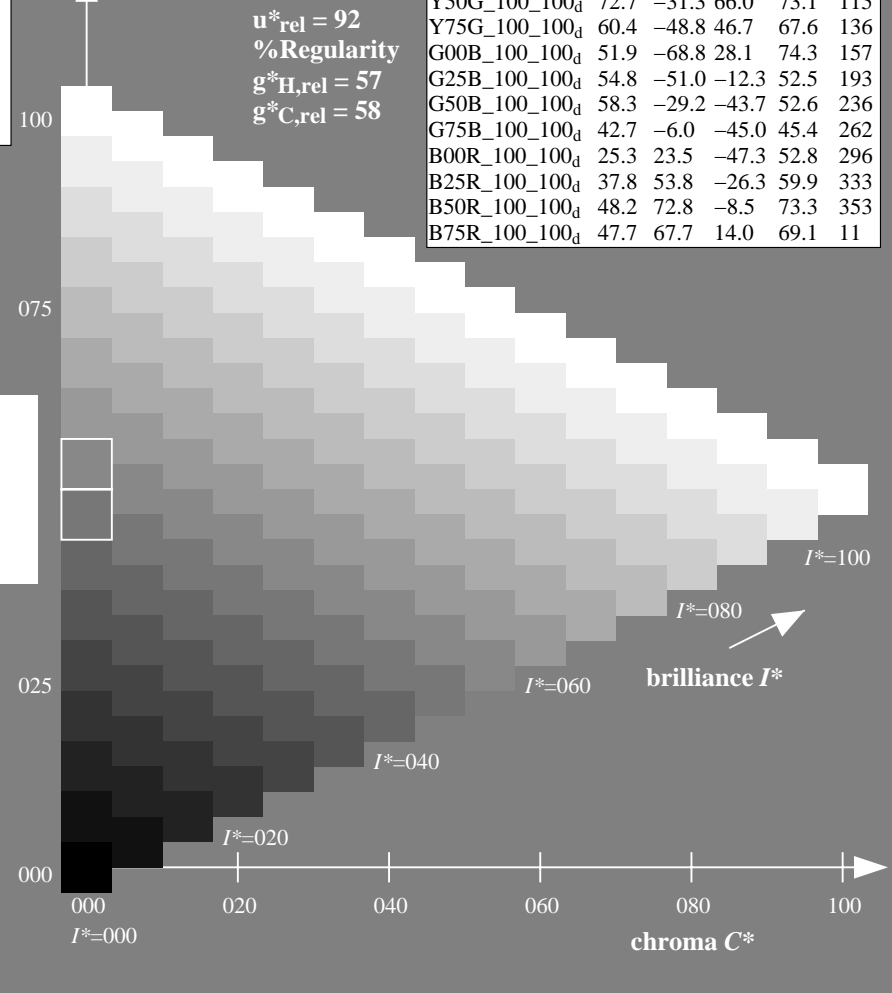
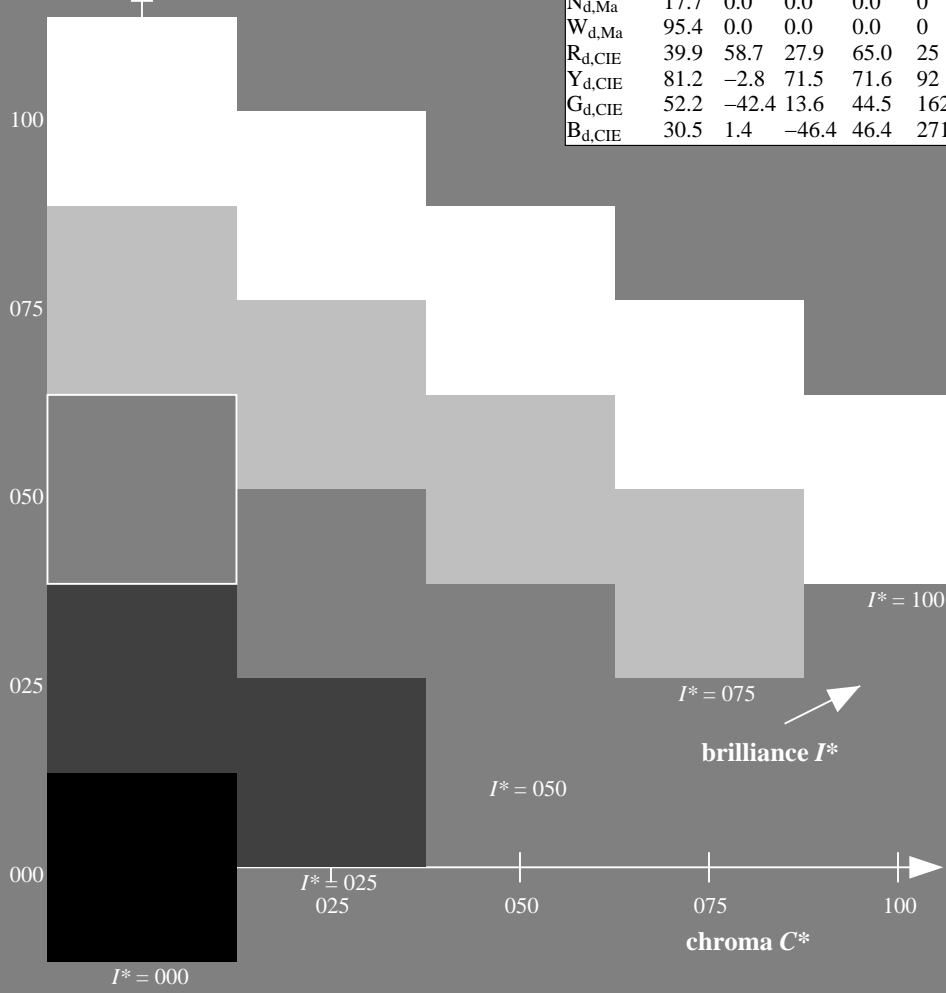
$HIC^*_{d,Ma}: R75Y\_100\_100_d$

$rgbic^*_{d,Ma}: 1.0 \ 0.76 \ 0.0 \ 1.0 \ 1.0$

triangle lightness  $T^*$

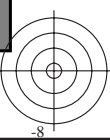
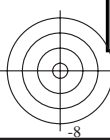
ORS20a; adapted (a) CIELAB data

$H^*_d$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100 <sub>d</sub>	47.3	63.8	41.2	76.0	32
R25Y_100_100 <sub>d</sub>	55.3	45.8	52.2	69.5	48
R50Y_100_100 <sub>d</sub>	67.2	22.6	67.6	71.2	71
R75Y_100_100 <sub>d</sub>	79.9	1.0	83.9	83.9	89
Y00G_100_100 <sub>d</sub>	88.3	-11.9	95.1	95.8	97
Y25G_100_100 <sub>d</sub>	83.3	-19.2	83.7	85.9	102
Y50G_100_100 <sub>d</sub>	72.7	-31.3	66.0	73.1	115
Y75G_100_100 <sub>d</sub>	60.4	-48.8	46.7	67.6	136
G00B_100_100 <sub>d</sub>	51.9	-68.8	28.1	74.3	157
G25B_100_100 <sub>d</sub>	54.8	-51.0	-12.3	52.5	193
G50B_100_100 <sub>d</sub>	58.3	-29.2	-43.7	52.6	236
G75B_100_100 <sub>d</sub>	42.7	-6.0	-45.0	45.4	262
B00R_100_100 <sub>d</sub>	25.3	23.5	-47.3	52.8	296
B25R_100_100 <sub>d</sub>	37.8	53.8	-26.3	59.9	333
B50R_100_100 <sub>d</sub>	48.2	72.8	-8.5	73.3	353
B75R_100_100 <sub>d</sub>	47.7	67.7	14.0	69.1	11

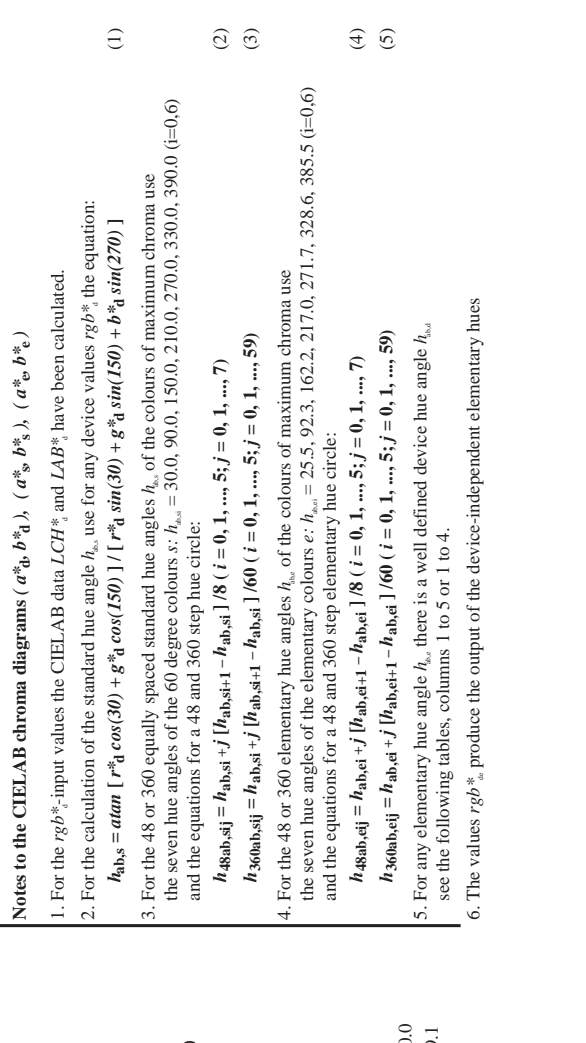
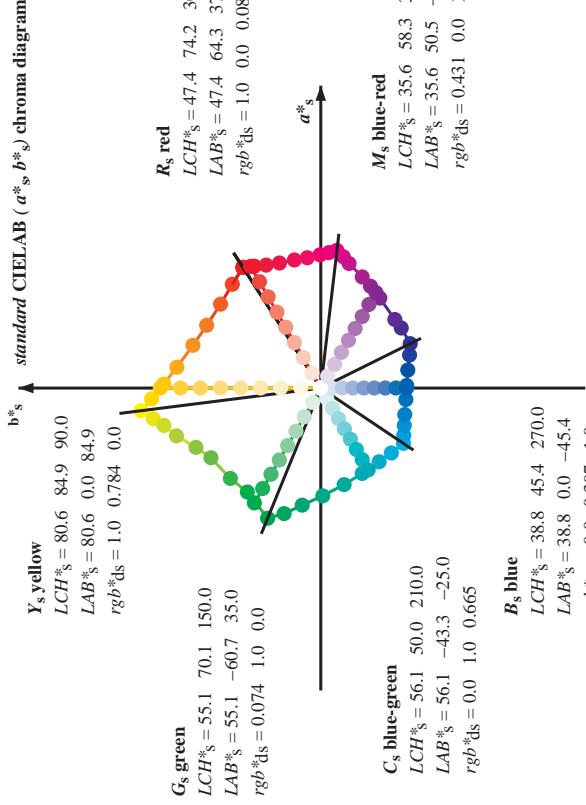
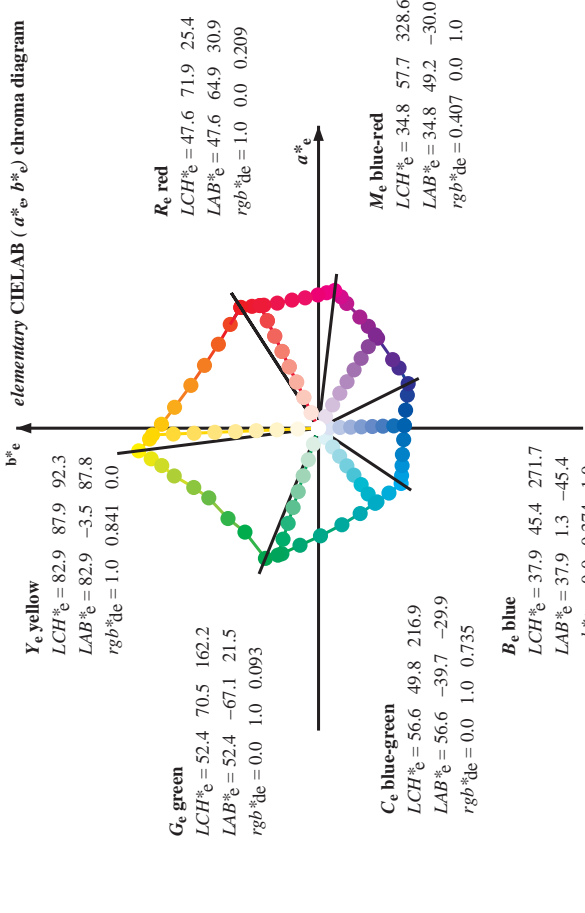
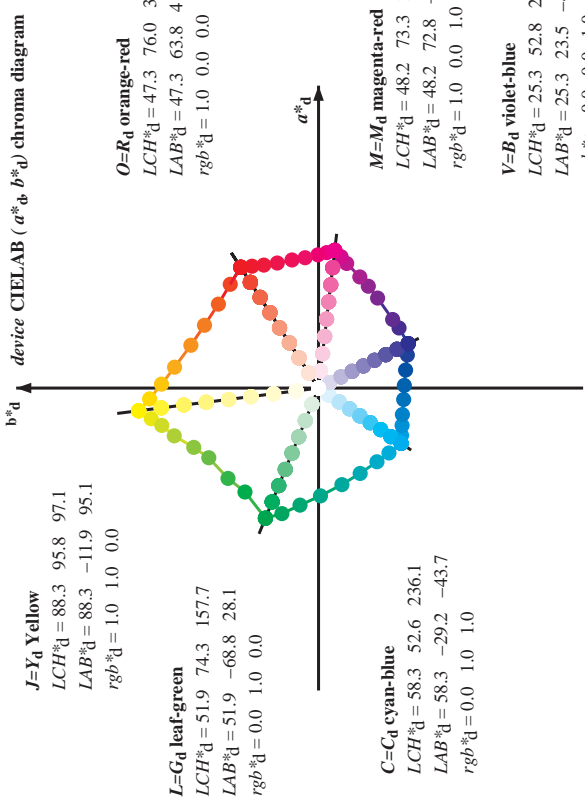


see similar files: http://130.149.60.45/~farbmetrik/QE24/QE24L0NA.TXT /PS  
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20130201-QE24/QE24L0NA.TXT /PS  
application for measurement of offset print output, separation cmykn6 (CMYK)  
TUB material: code=rh4ta



Data of Maximum color, M in colorimetric system Offset standard print; separation cmyk6\* D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM;  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ; Six hue angles of the device colours RYGBM;  $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$ ; Six hue angles of the elementary colours RYGBM;  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$



QE2400L

http://130.149.60.45/~farbmetrik/QE24/QE24L0NA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 8/33

Table with columns for colorimetric system parameters (LAB\*, dxs, dds, ddx, ddb, dds, ddb, dds, ddb) and hue angles (h\_ab, h\_ab, h\_ab) for 48 step hue circles. Includes color swatches and a CMYK separation chart.

input: rgb/cmyk -> rgbd output: transfer to cmykd

Output: Offset standard print; separation cmyk6; D65, page 8/33



http://130.149.60.45/~farbmetrik/QE24/QE24L0NA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 9/33

Data of Maximum color, M in colorimetric system Offset standard print; separation cmyk6\* D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h\_ab,ab = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0; Six hue angles of the device colours RYGBM; h\_ab,d = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours RYGBM; h\_ab,e = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

h_ab,d	h_ab,s	h_ab,e	rgb* dd64M	rgb* ds	rgb* de	LAB* dx361M	LAB* dx361M	LAB* dex361M	LAB* dex361M	
32.8	30.0	25.4	1.0	0.0	0.0	47.3	63.8	41.2	76.0	32.8
40.4	37.5	33.8	1.0	0.125	0.0	51.2	54.9	46.7	72.1	40.4
50.0	45.0	42.1	1.0	0.25	0.0	56.0	44.4	53.0	69.1	50.0
61.1	52.5	50.5	1.0	0.375	0.0	61.4	33.2	60.3	68.8	61.1
71.4	60.0	58.8	1.0	0.5	0.0	67.2	22.6	67.6	71.2	71.4
81.7	67.5	67.2	1.0	0.625	0.0	73.6	11.0	76.1	76.9	81.7
88.5	75.0	75.6	1.0	0.75	0.0	79.2	2.0	83.0	83.1	88.5
93.6	82.5	83.9	1.0	0.875	0.0	84.2	-5.7	89.4	89.6	93.6
97.1	90.0	92.3	1.0	1.0	0.0	88.3	-11.9	95.1	95.8	97.1
100.3	97.5	101.0	1.0	0.875	1.0	85.8	-16.2	88.6	90.0	100.3
103.3	105.0	109.7	1.0	0.0	82.9	-19.7	83.0	85.3	103.3	103.3
108.3	112.5	118.5	1.0	0.0	77.0	-25.2	76.3	80.4	108.3	108.3
115.3	120.0	127.2	0.5	1.0	0.0	72.7	-31.3	66.0	73.1	115.3
122.4	127.5	136.0	0.375	1.0	0.0	68.9	-36.9	58.1	68.8	122.4
134.9	135.0	144.7	0.25	1.0	0.0	60.8	-47.8	47.8	67.6	134.9
144.6	142.5	153.4	0.125	1.0	0.0	57.4	-54.9	38.9	67.3	144.6
157.7	150.0	162.2	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157.7
163.7	157.5	169.0	0.0	1.0	0.125	52.5	-66.4	19.3	69.1	163.7
170.9	165.0	175.9	0.0	1.0	0.25	53.2	-61.9	9.8	62.7	170.9
181.0	172.5	182.7	0.0	1.0	0.375	54.1	-56.9	-1.0	56.9	181.0
193.5	180.0	189.6	0.0	1.0	0.5	54.8	-51.0	-12.3	52.5	193.5
205.9	187.5	196.4	0.0	1.0	0.625	55.8	-45.1	-21.9	50.1	205.9
218.4	195.0	203.2	0.0	1.0	0.75	56.7	-38.9	-30.9	49.7	218.4
227.3	202.5	210.1	0.0	1.0	0.875	57.5	-34.3	-37.2	50.6	227.3
236.1	210.0	216.9	0.0	1.0	1.0	58.3	-29.2	-43.7	52.6	236.1
240.3	217.5	223.8	0.0	0.875	1.0	55.2	-25.0	-43.9	50.5	240.3
245.8	225.0	230.6	0.0	0.75	1.0	51.7	-19.7	-44.1	48.3	245.8
252.5	232.5	237.5	0.0	0.625	1.0	47.7	-13.9	-44.4	46.5	252.5
262.3	240.0	244.3	0.0	0.5	1.0	42.7	-6.0	-45.0	45.4	262.3
271.7	247.5	251.2	0.0	0.375	1.0	37.9	1.3	-45.4	45.4	271.7
281.6	255.0	258.0	0.0	0.25	1.0	33.3	9.4	-46.0	47.0	281.6
290.3	262.5	264.8	0.0	0.125	1.0	28.6	17.4	-46.9	50.1	290.3
296.4	270.0	271.7	0.0	0.0	1.0	25.3	23.5	-47.3	52.8	296.4
306.7	277.5	278.8	0.125	0.0	1.0	29.3	31.8	-42.6	53.1	306.7
312.7	285.0	285.9	0.25	0.0	1.0	31.5	36.2	-39.2	53.4	312.7
326.7	292.5	293.0	0.375	0.0	1.0	33.8	47.6	-31.2	56.9	326.7
333.9	300.0	300.1	0.5	0.0	1.0	37.8	53.8	-26.3	59.9	333.9
339.6	307.5	307.2	0.625	0.0	1.0	40.9	58.8	-21.8	62.7	339.6
347.2	315.0	314.3	0.75	0.0	1.0	43.1	65.9	-14.9	67.6	347.2
350.2	322.5	321.4	0.875	0.0	1.0	45.9	69.4	-11.9	70.5	350.2
353.3	330.0	328.6	1.0	0.0	1.0	48.2	72.8	-8.5	73.3	353.3
356.5	337.5	335.7	1.0	0.0	0.875	48.2	71.6	-4.3	71.7	356.5
360.3	345.0	342.8	1.0	0.0	0.75	48.1	70.4	0.3	70.4	360.3
365.8	352.5	349.9	1.0	0.0	0.625	48.0	68.9	7.1	69.3	365.8
371.6	360.0	357.0	1.0	0.0	0.5	47.7	67.7	14.0	69.1	371.6
378.2	367.5	364.1	1.0	0.0	0.375	47.7	66.1	21.8	69.6	378.2
383.9	375.0	371.2	1.0	0.0	0.25	47.7	65.0	28.9	71.2	383.9
388.6	382.5	378.3	1.0	0.0	0.125	47.4	64.4	35.1	73.4	388.6
392.8	390.0	385.4	1.0	0.0	0.0	47.3	63.8	41.2	76.0	392.8

input: rgb/cmyk -> rgbd output: transfer to cmykd

http://130.149.60.45/~farbmetrik/QE24/QE24L0NA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 10/33

Data of Maximum color, M in colorimetric system Offset standard print; separation cmyk6\*: D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h\_ab,ds = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

Table with columns: h\_ab,d, h\_ab,s, h\_ab,e, h\_ab,e, R\_d, L\*a\*b\*\_ds361MI, L\*a\*b\*\_dss361MI (x=LabCh), L\*a\*b\*\_dss361MI (x=LabCh), R\_g, R\_b, R\_c, L\*a\*b\*\_de361MI, L\*a\*b\*\_dex361MI (x=LabCh), R\_gb\*\_dd361MI, R\_gb\*\_dd361MI, R\_gb\*\_ds361MI, R\_gb\*\_ds361MI. Rows 32-88.

Six hue angles of the device colours RYGBM; h\_ab,d = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours RYGBM; h\_ab,e = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

LAB\*tab, YN=0%, XYZnw=2,4,2,5,2,6,85,1,88,8,104,3, LAB\*rw=17,7,0,0,0,95,5,0,0,0 input: rgb/cmyk -> rgbd output: transfer to cmykd

http://130.149.60.45/~farbmetrik/QE24/QE24L0NA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 1/33

Data of Maximum color, M in colorimetric system Offset standard print; separation cmyk6\*: D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h\_ab,d = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

Table with 12 columns: h\_ab,d, h\_ab,s, h\_ab,e, rgb%\_dd361M, LAB\*\_dcs361MI (x=LabCh), rgb%\_dcs361MI, LAB\*\_dcs361MI (x=LabCh), rgb%\_dd361MI, LAB\*\_dex361MI (x=LabCh), rgb%\_dex361MI, LAB\*\_dex361MI (x=LabCh), rgb%\_dd361MI, LAB\*\_dex361MI (x=LabCh)

I-0031030-L0 QE240-70 LAB\*lab0, YN=0%, XY,Znw=2.4,2.5,2.6,85.1,88.8,104.3, LAB\*rw=17.7,0.0,0.0,95.5,0.0,0.0 Output: Offset standard print; separation cmyk6\*: D65, page 1/33

TUB-test chart QE24; hue code: H\*\_d=R75Yd input: rgb/cmyk -> rgbd 48 step hue circles; rgb-LabCh\*tables output: transfer to cmykd



http://130.149.60.45/~farbmetrik/QE24/QE24L0NA.TXT / .PS; transfer output  
 N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 12/33

Data of Maximum color, M in colorimetric system Offset standard print; separation cmykn6\*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGCMB;  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
 Six hue angles of the device colours RYGCMB;  $h_{ab,d} = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3$ ; Six hue angles of the elementary colours RYGCMB;  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{ds}$	$rgb^*_{de}$	$LAB^*_{ds}$	$LAB^*_{de}$	$LAB^*_{dex361MI}$	$rgb^*_{dd361MI}$	$LAB^*_{dex361MI}$	$rgb^*_{dd361MI}$
115	120	127	0.5	1.0	0.0	72.7	-31.3	66.0	73.1	115
116	121	128	0.483	1.0	0.0	72.2	-32.1	65.0	72.5	116
117	122	129	0.466	1.0	0.0	71.7	-32.9	63.9	71.9	117
118	123	130	0.45	1.0	0.0	71.2	-33.7	62.9	71.4	118
119	124	131	0.433	1.0	0.0	70.7	-34.5	61.8	70.8	119
120	125	133	0.416	1.0	0.0	70.2	-35.2	60.8	70.2	120
121	126	134	0.4	1.0	0.0	69.6	-35.9	59.7	69.6	121
121	127	135	0.383	1.0	0.0	69.1	-36.5	58.6	69.1	121
123	128	136	0.366	1.0	0.0	68.3	-37.7	57.4	68.7	123
124	129	137	0.35	1.0	0.0	67.3	-39.2	56.2	68.2	124
126	130	138	0.333	1.0	0.0	66.2	-40.8	54.9	68.4	126
128	131	140	0.316	1.0	0.0	65.1	-42.3	53.6	68.2	128
129	132	141	0.3	1.0	0.0	64.0	-43.7	52.2	68.1	129
131	133	142	0.283	1.0	0.0	63.0	-45.1	50.8	67.9	131
133	134	143	0.266	1.0	0.0	61.9	-46.5	49.3	67.8	133
134	135	144	0.25	1.0	0.0	60.8	-47.8	47.8	67.6	134
136	136	145	0.233	1.0	0.0	60.4	-48.8	46.7	67.6	136
137	137	147	0.216	1.0	0.0	59.9	-49.8	45.6	67.5	137
138	138	148	0.2	1.0	0.0	59.4	-50.8	44.4	67.5	138
140	139	149	0.183	1.0	0.0	59.0	-51.8	43.2	67.4	140
141	140	150	0.166	1.0	0.0	58.5	-52.7	42.0	67.4	141
142	141	151	0.15	1.0	0.0	58.1	-53.6	40.8	67.4	142
144	142	152	0.133	1.0	0.0	57.6	-54.5	39.5	67.3	144
145	143	154	0.116	1.0	0.0	57.0	-55.9	38.3	67.8	145
147	144	155	0.1	1.0	0.0	56.3	-57.8	37.1	68.7	147
149	145	156	0.083	1.0	0.0	55.5	-59.7	35.8	69.6	149
150	146	157	0.066	1.0	0.0	54.8	-61.6	34.4	70.6	150
152	147	158	0.049	1.0	0.0	54.1	-63.4	32.9	71.5	152
154	148	159	0.033	1.0	0.0	53.4	-65.3	31.4	72.4	154
156	149	161	0.016	1.0	0.0	52.6	-67.1	29.8	73.4	156
157	150	162	0.0	1.0	0.0	51.9	-68.8	28.1	74.3	157
158	151	163	0.0	1.0	0.016	52.0	-68.5	26.9	73.6	158
159	152	164	0.0	1.0	0.033	52.1	-68.3	25.7	72.9	159
160	153	164	0.0	1.0	0.05	52.2	-68.0	24.5	72.2	160
160	154	165	0.0	1.0	0.066	52.2	-67.6	23.3	71.6	160
161	155	166	0.0	1.0	0.083	52.3	-67.3	22.1	70.9	161
162	156	167	0.0	1.0	0.1	52.4	-66.9	21.0	70.2	162
163	157	168	0.0	1.0	0.116	52.5	-66.6	19.9	69.5	163
164	158	169	0.0	1.0	0.133	52.6	-66.1	18.6	68.7	164
165	159	170	0.0	1.0	0.15	52.7	-65.6	17.3	67.9	165
166	160	171	0.0	1.0	0.166	52.8	-65.0	16.0	67.0	166
167	161	172	0.0	1.0	0.183	52.9	-64.5	14.7	66.1	167
168	162	173	0.0	1.0	0.2	53.0	-63.9	13.4	65.3	168
169	163	174	0.0	1.0	0.216	53.1	-63.3	12.2	64.4	169
170	164	175	0.0	1.0	0.233	53.2	-62.6	11.0	63.6	170
170	165	175	0.0	1.0	0.25	53.2	-61.9	9.8	62.7	170

I-0031130-L0 QE24-70 LAB\* $h_{ab}$ , YN=0%, XYZnw=2.4,2.5,2.6,85.1,88.8,104.3, LAB\* $nw$ =17.7,0.0,0.0,95.5,0.0,0.0  
 TUB-test chart QE24; hue code: H\*\_d=R75Y\_d  
 48 step hue circles; rgb-LabCh\*tables

input: rgb/cmyk -> rgbd  
 output: transfer to cmykd

Output: Offset standard print; separation cmykn6\*, D65, page 12/33



http://130.149.60.45/~farbmetrik/QE24/QE24L0NA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 14/33

Data of Maximum color, M in colorimetric system Offset standard print; separation cmyk6\*: D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h\_ab,ds = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

Table with 10 columns: h\_ab,d, h\_ab,s, h\_ab,e, h\_ab,e, h\_ab,e, h\_ab,e, h\_ab,e, h\_ab,e, h\_ab,e. Rows 206-281. Includes colorimetric data and LabCh values.

LAB\*tab, YN=0%, XYZnw=2,4,2,5,2,6,85,1,88,8,104,3, LAB\*rw=17,7,0,0,0,95,5,0,0,0,0 input: rgb/cmyk -> rgbd output: transfer to cmykd

Output: Offset standard print; separation cmyk6\*: D65, page 14/33





http://130.149.60.45/~farbmetrik/QE24/QE24L0NA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 16/33

Data of Maximum color, M in colorimetric system Offset standard print; separation cmyk6\*: D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM<sub>d</sub>; h<sub>ab,ds</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

Table with 10 columns: h<sub>ab,d</sub>, h<sub>ab,s</sub>, LAB\*<sub>d</sub>dxs361MI (x=LabCh), LAB\*<sub>s</sub>dxs361MI (x=LabCh), rgB\*<sub>d</sub>dd361MI, rgB\*<sub>s</sub>dd361MI, LAB\*<sub>d</sub>dex361MI (x=LabCh), LAB\*<sub>s</sub>dex361MI (x=LabCh), rgB\*<sub>d</sub>dd361MI, rgB\*<sub>s</sub>dd361MI. Rows 333-360.

LAB\*<sub>lab</sub>, YN=0%, XYZnw=2,4,2,5,2,6,85,1,88,8,104,3, LAB\*<sub>nw</sub>=17,7,0,0,0,95,5,0,0,0,0 input: rgb/cmyk -> rgbd output: transfer to cmykd

I-0031530-L0 QE240-70 LAB\*<sub>lab</sub>, YN=0%, XYZnw=2,4,2,5,2,6,85,1,88,8,104,3, LAB\*<sub>nw</sub>=17,7,0,0,0,95,5,0,0,0,0 Output: Offset standard print; separation cmyk6\*: D65, page 16/36



http://130.149.60.45/~farbmetrik/QE24/QE24L0NA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 17/33

Data of Maximum color, M in colorimetric system Offset standard print; separation cmyk6\*; D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h\_ab,ds = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

Table with 10 columns: h\_ab,d, h\_ab,s, h\_ab,e, rgb\*\_dd361M, LAB\*\_dcs361MI, LAB\*\_dcs361MI, LAB\*\_dcs361MI, LAB\*\_dex361MI, LAB\*\_dex361MI, LAB\*\_dex361MI, rgb\*\_dd361MI, rgb\*\_dd361MI, rgb\*\_dd361MI. Rows 360-392.

Six hue angles of the device colours RYGBM; h\_ab,d = 32.8, 97.2, 157.8, 236.2, 296.4, 353.3; Six hue angles of the elementary colours RYGBM; h\_ab,e = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

TUB-test chart QE24; hue code: H\*\_d=R75Yd input: rgb/cmyk -> rgbd output: transfer to cmykd

Output: Offset standard print; separation cmyk6\*; D65, page 17/33

Table with columns: nrf, HHC\*Fd, rpb\*Fd, icr\*Fd, hsa\*Fd, LabCh\*Fd, rpb\*Fd, LabCh\*Fd, DE\*Fd, hsa\*Fd, rpb\*Fd, LabCh\*Fd. Rows include color names like R000, R13Y, R25C, etc.

Mean color difference of this page: delta E\* = 2.6

input: rgb/cmyk -> rgbd output: transfer to cmykd

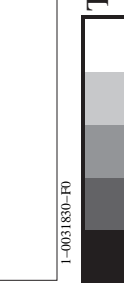
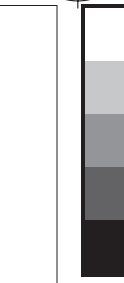


Table with 18 columns: nrf, H#C\*Fd, rpb\_Fd, icr\_Fd, H#s\_Fd, rpb\_Fd, LabC\*H\*Fd, LabCH\*Fd, LabCH\*Fd, rpb\_Fd, DE\*Fd, H#s\*Fd, rpb\_Fd, rpb\*Fd, LabCH\*Fd, rpb\_Fd, LabCH\*Fd, LabCH\*Fd, rpb\*Fd. The table contains multiple rows of numerical data representing color differences and registration values.

Mean color difference of this page: delta E\* = 3.8

TUB-test chart QE24; hue code: H\*\_d=R75Y\_d colors and differences, ΔE\*'

input: rgb/cmyk -> rgbd output: transfer to cmykd

http://130.149.60.45/~farbmetrik/QE24/QE24LONA.TXT / .PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 20/33

see similar files: http://130.149.60.45/~farbmetrik/QE24/QE24LONA.TXT / .PS technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

Table with 80 columns (numbered 1-80) and 10 rows of color data. Columns include H\* (hue), S\* (saturation), L\* (lightness), and various colorimetric parameters like Lab, Luv, and Lch. The table contains numerical values for each parameter across the 80 color patches.

Mean color difference of this page: delta E\* = 3.7

input: rgb/cmyk -> rgbd output: transfer to cmykd

TUB-test chart QE24; hue code: H\*d=R75Yd colors and differences, AE\*

Table with 16 columns: n, HHC\*Fd, rgb\*Fd, LabCH\*Fd, LabCH\*Fd, LabCH\*Fd, LabCH\*Fd, LabCH\*Fd, LabCH\*Fd, LabCH\*Fd, LabCH\*Fd, LabCH\*Fd, LabCH\*Fd, LabCH\*Fd, LabCH\*Fd, LabCH\*Fd. Rows 81-161.

input: rgb/cmyk -> rgbd output: transfer to cmykd

TUB-test chart QE24; hue code: H\*d=R75Yd colors and differences, AE\*

http://130.149.60.45/~farbmatrik/QE24/QE24LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 22/33

Table with 24 columns: n, HHC\*Fd, Rgb\*Fd, iet\*Fd, Hs\*Fd, Rgb\*Fd, LabCm\*Fd, LabCH\*Fd, DF\*Fd, Hs\*Fd, Rgb\*Fd, LabCH\*Fd, Rgb\*Fd, LabCH\*Fd, DF\*Fd, Hs\*Fd, Rgb\*Fd, LabCH\*Fd, Rgb\*Fd, LabCH\*Fd, DF\*Fd, Hs\*Fd, Rgb\*Fd, LabCH\*Fd. Rows 162-242.

Mean color difference of this page: delta E\* = 4.8

TUB-test chart QE24; hue code: H\*d=R75Yd colors and differences, AE\*

input: rgb/cmyk -> rgbd output: transfer to cmykd



Table with 40 columns (n, HHC\*Fd, rpb\*Fd, icr\*Fd, hsa\*Fd, rpb\*Fd, LabCH\*Fd, LabCH\*Fd, rpb\*Fd, rpb\*Fd, LabCH\*Fd, DF\*Fd, hsa\*Fd, rpb\*Fd, LabCH\*Fd) and 40 rows of color calibration data.

input: rgb/cmyk -> rgbd output: transfer to cmykd

TUB-test chart QE24; hue code: H\*d=R75Yd colors and differences, AE\*

I-0032330-F0

QE240-TN; Page 24/33-F

Mean color difference of this page: delta E\* = 5.3





Table with 15 columns: n, HHC\*Fd, Rgb\*Fd, Ict\*Fd, Hsa\*Fd, Rgb\*Fd, LabCh\*Fd, LabCh\*Fd, Rgb\*Fd, DF\*Fd, Hsa\*Fd, LabCh\*Fd, LabCh\*Fd, Rgb\*Fd, LabCh\*Fd. Rows include color names like R00Y, R01Y, R02Y, etc.

input: rgb/cmyk -> rgbd output: transfer to cmykd

TUB-test chart QE24; hue code: H\*d=R75Yd colors and differences, AE\*

I=0032530-F0 I=0032530-F

http://130.149.60.45/~farbmatrik/QE24/QE24LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 27/33

Table with columns: n, HHC\*Fd, rpb\*Fd, iet\*Fd, hsb\*Fd, rpb\*Fd, LabCH\*Fd, LabCH\*Pd, rpb\*Pd, LabCH\*Pd, DE\*Fd, rpb\*Pd, Hsb\*Pd, LabCH\*Pd, LabCH\*Yd, rpb\*Yd, DE\*Yd. It contains a dense grid of numerical data for color calibration.

Mean color difference of this page: delta E\* = 4.8

TUB-test chart QE24; hue code: H\*d=R75Yd colors and differences, AE\*

input: rgb/cmyk -> rgbd output: transfer to cmykd

QE2401

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I-0032630-F0

I-0032630-F0

Table with 10 columns: n, HHC\*Fd, rpb\*Fd, icr\*Fd, hsa\*Fd, LabCh\*Fd, rpb\*Fd, LabCh\*Fd, DE\*Fd, hsa\*Fd, rpb\*Fd, LabCh\*Fd. Rows include color names like R001, R002, etc.

input: rgb/cmyk -> rgbd output: transfer to cmykd

TUB-test chart QE24; hue code: H\*d=R75Yd colors and differences, AE\*

Mean color difference of this page: delta E\* = 3.9

Table with 10 columns: n, H#C\*Fd, r\*g\*b, i\*c\*t, i\*c\*t, i\*c\*t, i\*c\*t, i\*c\*t, i\*c\*t, i\*c\*t. Rows include color names like NV\_100a, G50B\_100.0124, etc.

input: rgb/cmyk -> rgbd output: transfer to cmykd

TUB-test chart QE24; hue code: H\*\_d=R75Y\_d colors and differences, AE\*'

QE240-TN; Page 29/33-F

I-0032830-F0

QE2400L

QE2400L

http://130.149.60.45/~farbmetrik/QE24/QE24LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 30/33

Table with 15 columns: n, HIC\*Fd, Rgb\*Fd, iCt\*Fd, Hs\*Fd, Rgb\*Fd, LabCm\*Fd, LabCm\*Fd, Rgb\*Fd, Rgb\*Fd, LabCm\*Fd, LabCm\*Fd, Rgb\*Fd, Rgb\*Fd, LabCm\*Fd. Rows 810-890.

input: rgb/cmyk -> rgbd output: transfer to cmykd

Table with columns: n, HHC\*Fd, rpb\*Fd, icr\*Fd, hsa\*Fd, rpb\*Fd, LabCH\*Fd, LabCH\*Pd, rpb\*Pd, LabCH\*Pd, DF\*Pd, hsa\*Pd, rpb\*Pd, LabCH\*Pd. Rows include color names like NW\_100a, B50R\_100.025a, etc.

input: rgb/cmyk -> rgbd output: transfer to cmykd

TUB-test chart QE24; hue code: H\*d=R75Yd colors and differences, AE\*'

QE240-TN; Page 31/33-F

I-003300-F0

http://130.149.60.45/~farbmetrik/QE24/QE24L0NA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 32/33

Table with 15 columns: n, H#C\*Fd, rpb\*Fd, iet\*Fd, hsa\*Fd, rpb\*Fd, LabC\*Fd, LabC\*Fd, rpb\*Fd, LabC\*Fd, LabC\*Fd, rpb\*Fd, DP\*Fd, hsa\*Fd, rpb\*Fd, LabC\*Fd. Rows include color patches like NW\_000a, NW\_012a, NW\_025a, etc.

Mean color difference of this page: delta E\* = 5.5

TUB-test chart QE24; hue code: H\*d=R75Yd colors and differences, AE\*'

input: rgb/cmyk -> rgbd output: transfer to cmykd





http://130.149.60.45/~farbmetrik/QE24/QE24L0NA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 33/33

n	HC*Fd	rgb_Fd	ict_Fd	rgb*Fd	LabCH*Fd	hs_Fd	rgb*Fd	LabCH*Fd	DF*Fd	hsM_d	rgb*Md	LabCH*Md
1053	NW_086d	0.866	0.866	0.866	0.866	0.866	0.866	85.0	0.0	0.0	0.0	0.0
1054	NW_093d	0.933	0.933	0.933	0.933	0.933	0.933	90.2	0.0	0.0	0.0	0.0
1055	NW_100d	1.0	1.0	1.0	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1056	NW_006d	0.066	0.066	0.066	0.066	0.066	0.066	22.8	0.0	0.0	0.0	0.0
1057	NW_013d	0.133	0.133	0.133	0.133	0.133	0.133	30.4	0.0	0.0	0.0	0.0
1058	NW_020d	0.2	0.2	0.2	0.2	0.2	0.2	38.9	-0.5	0.6	0.0	0.0
1059	NW_026d	0.266	0.266	0.266	0.266	0.266	0.266	45.6	-0.8	0.9	0.0	0.0
1060	NW_033d	0.333	0.333	0.333	0.333	0.333	0.333	51.9	-0.8	0.8	0.0	0.0
1061	NW_040d	0.4	0.4	0.4	0.4	0.4	0.4	57.3	-0.6	0.7	0.0	0.0
1062	NW_046d	0.466	0.466	0.466	0.466	0.466	0.466	61.7	-0.4	0.6	0.0	0.0
1063	NW_053d	0.533	0.533	0.533	0.533	0.533	0.533	67.0	-0.3	0.5	0.0	0.0
1064	NW_060d	0.6	0.6	0.6	0.6	0.6	0.6	72.1	-0.3	0.4	0.0	0.0
1065	NW_066d	0.666	0.666	0.666	0.666	0.666	0.666	76.7	-0.2	0.3	0.0	0.0
1066	NW_073d	0.734	0.734	0.734	0.734	0.734	0.734	80.9	-0.2	0.2	0.0	0.0
1067	NW_079d	0.8	0.8	0.8	0.8	0.8	0.8	84.8	-0.2	0.1	0.0	0.0
1068	NW_086d	0.866	0.866	0.866	0.866	0.866	0.866	89.3	-0.1	0.1	0.0	0.0
1069	NW_093d	0.933	0.933	0.933	0.933	0.933	0.933	92.2	0.0	0.0	0.0	0.0
1070	NW_100d	1.0	1.0	1.0	1.0	1.0	1.0	95.4	0.0	0.0	0.0	0.0
1071	NW_006d	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.1	0.5	0.0	0.0
1072	NW_010d	0.1	0.1	0.1	0.1	0.1	0.1	25.6	0.1	0.5	0.0	0.0
1073	NW_015d	0.15	0.15	0.15	0.15	0.15	0.15	31.2	0.1	0.5	0.0	0.0
1074	ROY_100_100d	0.0	0.0	1.0	0.0	0.0	0.0	47.3	68.8	40.9	78.4	3.9
1075	GY0B_100_100d	0.0	1.0	0.0	0.0	0.0	0.0	58.3	-29.2	-43.7	52.6	236.1
1076	Y00C_100_100d	0.0	0.0	1.0	0.0	0.0	0.0	68.8	-45.4	53.6	237.9	2.9
1077	BY0C_100_100d	0.0	0.0	0.0	1.0	0.0	0.0	87.3	-11.0	95.6	96.2	1.3
1078	BY0R_100_100d	0.0	0.0	0.0	0.0	1.0	0.0	92.8	25.0	29.0	3.4	27.0
1079	BY0B_100_100d	0.0	0.0	0.0	0.0	0.0	1.0	95.4	48.4	47.6	51.9	52.8
1079	BY0R_100_100d	1.0	0.0	1.0	0.0	1.0	0.0	48.2	75.8	35.2	75.3	4.0
1079	BY0B_100_100d	1.0	0.0	1.0	0.0	1.0	0.0	48.2	75.3	35.3	75.3	4.0

Mean color difference of this page: delta E\*\* = 4.2

input: rgb/cmyk -> rgbd output: transfer to cmykd

TUB-test chart QE24; hue code: H\*\_d=R75Y\_d colors and differences, ΔE\*\*