

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 152/360 = 0.42$

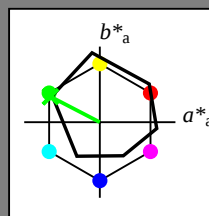
Data for any device (d) or elementary (e) colour:

HIC^*

hue text for the colours of this page:

$H^*_ = G00B_-$

triangle lightness T^*



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

Data for maximum colour (Ma):

$LabCh^*_{-,Ma}$: 55 -65 33 73 152

$HIC^*_{-,Ma}$: G00B_100_100_

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

0.0 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

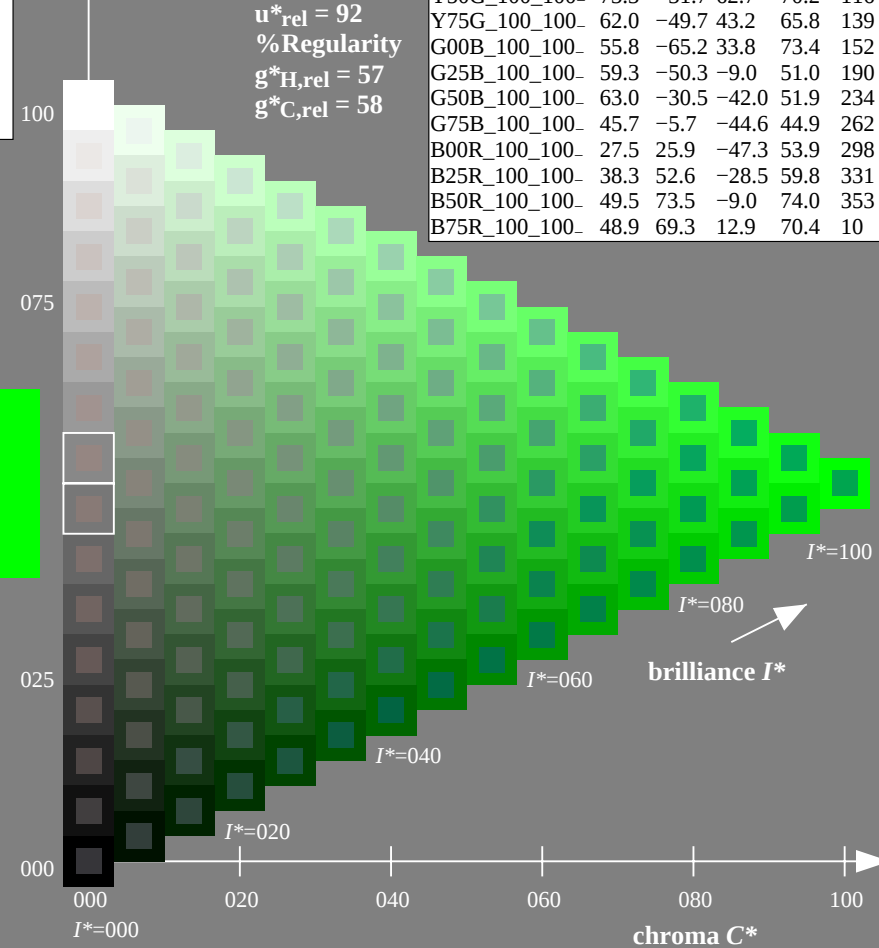
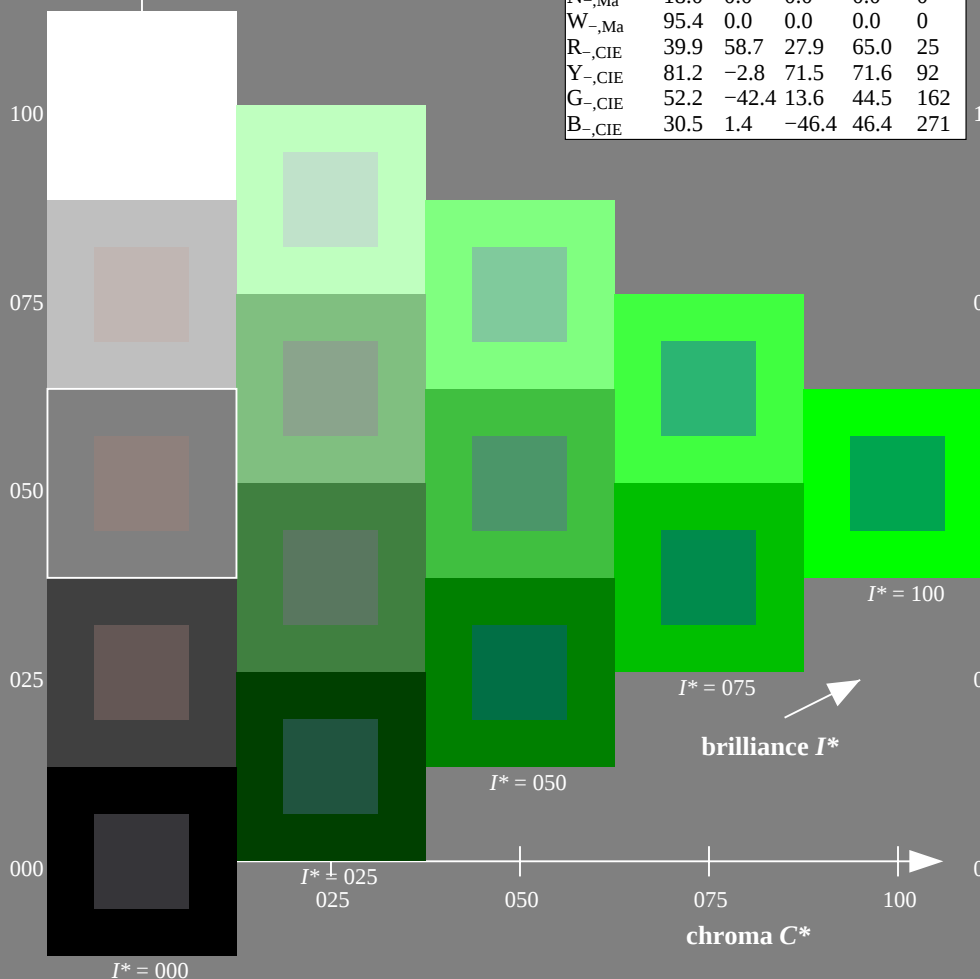
$u^*_{rel} = 92$

% 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 QE77; hue code: $H^*_ = G00B_-$
Test chart according to DIN 33872, 3D=1, de=0, $cm y0^*$

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

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 155/360 = 0.43$

$H^*_d = G00B_d$

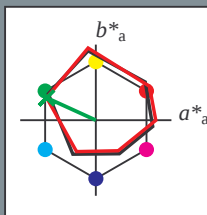
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = G00B_d$

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}	45.4	70.9	44.8	83.9	32
Y _{d,Ma}	87.8	-10.2	95.4	96.0	96
G _{d,Ma}	50.0	-65.0	29.6	71.4	155
C _{d,Ma}	56.8	-25.5	-41.5	48.7	238
B _{d,Ma}	25.0	29.5	-40.4	50.0	306
M _{d,Ma}	46.1	79.3	-0.2	79.3	359
N _{d,Ma}	24.3	0.0	0.0	0.0	0
W _{d,Ma}	95.6	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):

$LabCh^*_d, Ma$: 50 -65 29 71 155

HIC^*_d, Ma : G00B_100_100_d

$rgbic^*_d, Ma$:

0.0 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

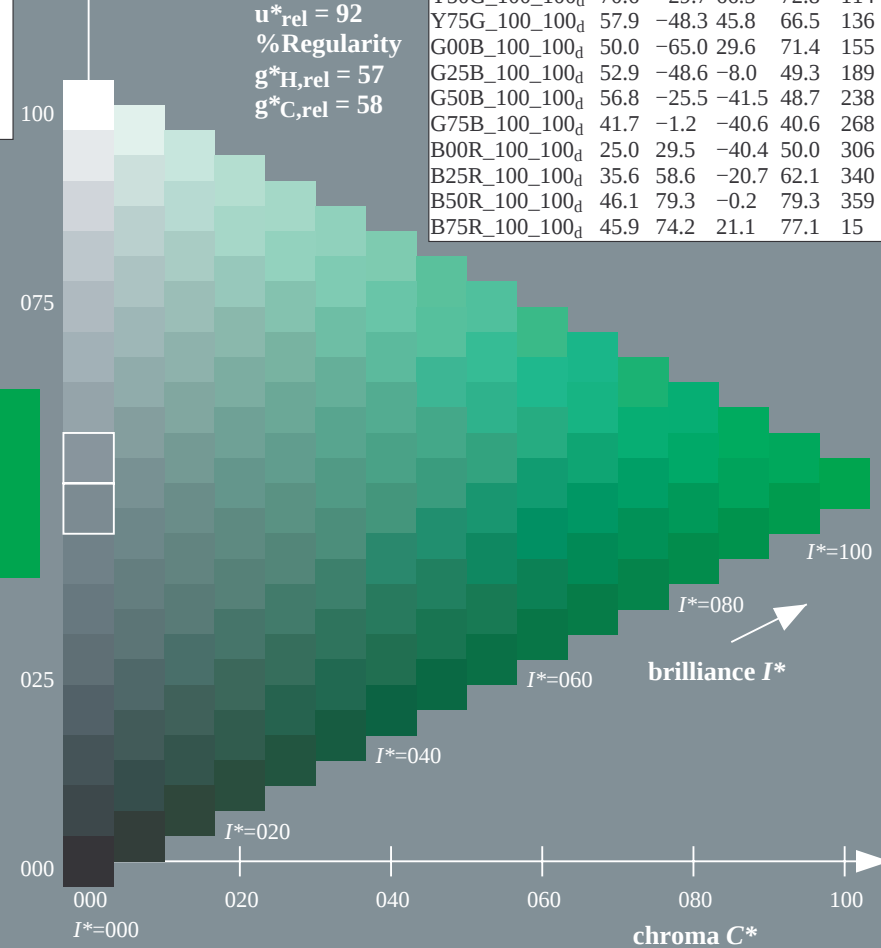
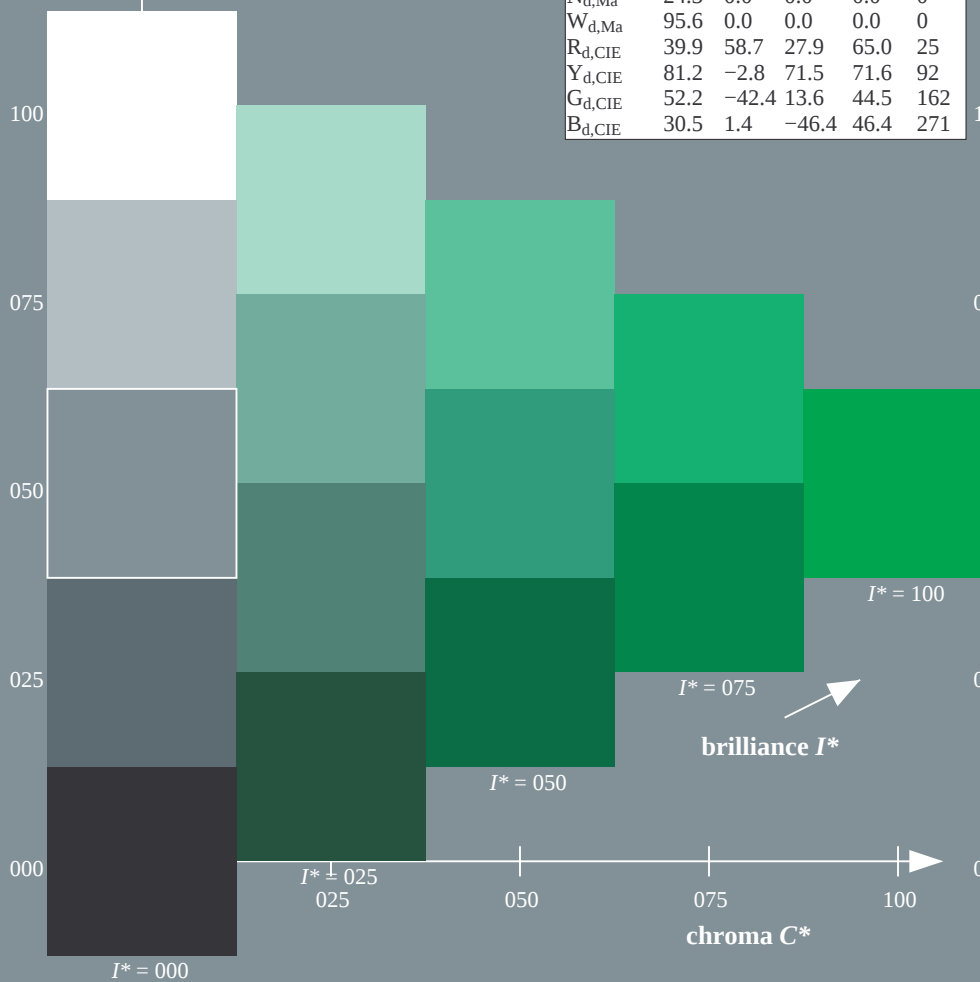
$u^*_{rel} = 92$

% 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_100 _d	45.4	70.9	44.8	83.9	32
R25Y_100_100 _d	53.0	53.4	54.8	76.5	45
R50Y_100_100 _d	64.9	28.9	68.6	74.5	67
R75Y_100_100 _d	78.6	4.3	84.7	84.8	87
Y00G_100_100 _d	87.8	-10.2	95.4	96.0	96
Y25G_100_100 _d	81.2	-17.0	84.3	86.0	101
Y50G_100_100 _d	70.6	-29.7	66.5	72.8	114
Y75G_100_100 _d	57.9	-48.3	45.8	66.5	136
G00B_100_100 _d	50.0	-65.0	29.6	71.4	155
G25B_100_100 _d	52.9	-48.6	-8.0	49.3	189
G50B_100_100 _d	56.8	-25.5	-41.5	48.7	238
G75B_100_100 _d	41.7	-1.2	-40.6	40.6	268
B00R_100_100 _d	25.0	29.5	-40.4	50.0	306
B25R_100_100 _d	35.6	58.6	-20.7	62.1	340
B50R_100_100 _d	46.1	79.3	-0.2	79.3	359
B75R_100_100 _d	45.9	74.2	21.1	77.1	15



TUB-test chart QE77; hue code: $H^*_d = G00B_d$
Test chart according to DIN 33872, 3D=1, de=0, $cmY0^*$

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

TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS
application for measurement of offset print output, separation $cmY0^*$ (CMY0)

TUB material: code=rha4ta

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 155/360 = 0.43$

$H^*_d = G00B_d$

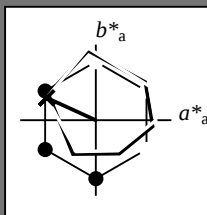
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = G00B_d$

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	45.4	70.9	44.8	83.9	32
Y _d ,Ma	87.8	-10.2	95.4	96.0	96
G _d ,Ma	50.0	-65.0	29.6	71.4	155
C _d ,Ma	56.8	-25.5	-41.5	48.7	238
B _d ,Ma	25.0	29.5	-40.4	50.0	306
M _d ,Ma	46.1	79.3	-0.2	79.3	359
N _d ,Ma	24.3	0.0	0.0	0.0	0
W _d ,Ma	95.6	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):

$LabCh^*_d, Ma$: 50 -65 29 71 155

HIC^*_d, Ma : G00B_100_100_d

$rgbic^*_d, Ma$:

0.0 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

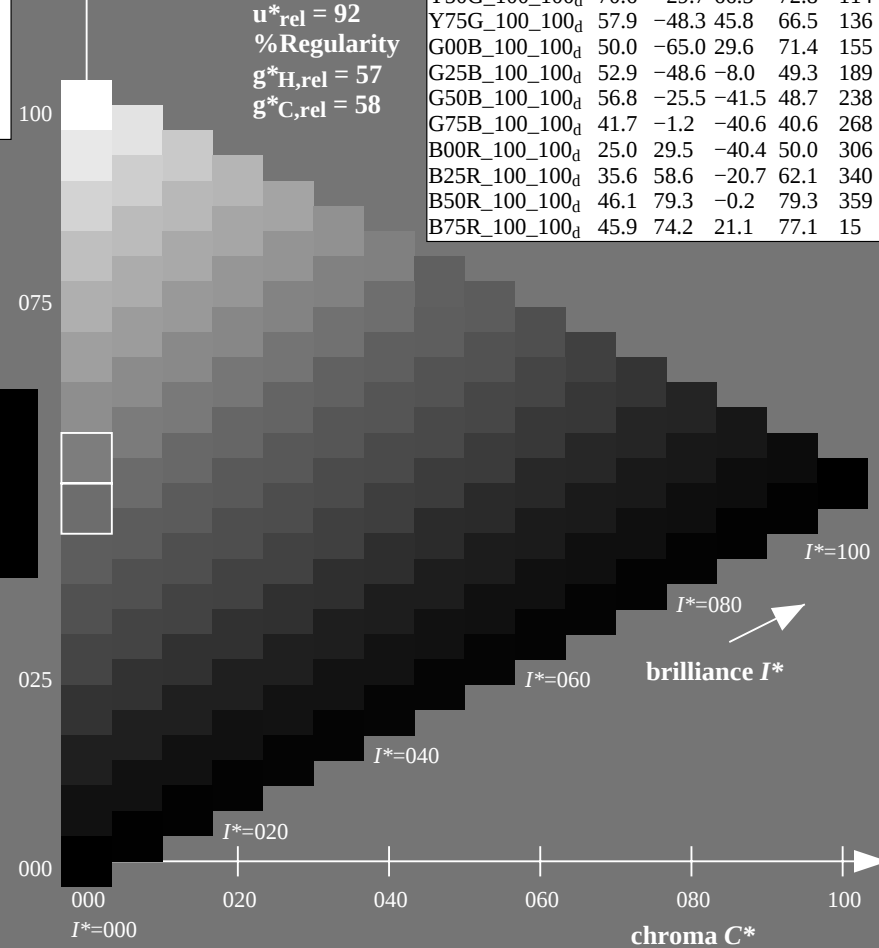
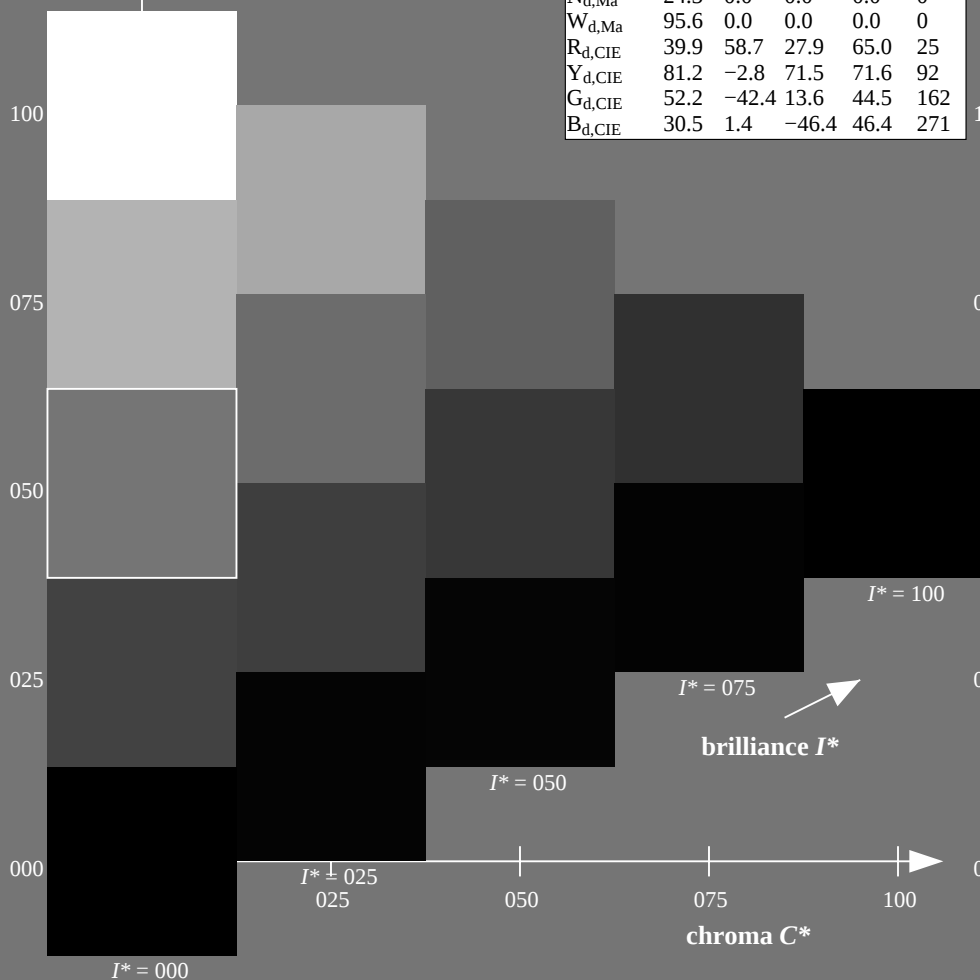
$u^*_{rel} = 92$

% 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_100 _d	45.4	70.9	44.8	83.9	32
R25Y_100_100 _d	53.0	53.4	54.8	76.5	45
R50Y_100_100 _d	64.9	28.9	68.6	74.5	67
R75Y_100_100 _d	78.6	4.3	84.7	84.8	87
Y00G_100_100 _d	87.8	-10.2	95.4	96.0	96
Y25G_100_100 _d	81.2	-17.0	84.3	86.0	101
Y50G_100_100 _d	70.6	-29.7	66.5	72.8	114
Y75G_100_100 _d	57.9	-48.3	45.8	66.5	136
G00B_100_100 _d	50.0	-65.0	29.6	71.4	155
G25B_100_100 _d	52.9	-48.6	-8.0	49.3	189
G50B_100_100 _d	56.8	-25.5	-41.5	48.7	238
G75B_100_100 _d	41.7	-1.2	-40.6	40.6	268
B00R_100_100 _d	25.0	29.5	-40.4	50.0	306
B25R_100_100 _d	35.6	58.6	-20.7	62.1	340
B50R_100_100 _d	46.1	79.3	-0.2	79.3	359
B75R_100_100 _d	45.9	74.2	21.1	77.1	15



TUB-test chart QE77; hue code: $H^*_d = G00B_d$
Test chart according to DIN 33872, 3D=1, de=0, $cmY0^*$

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

TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS
application for measurement of offset print output, separation $cmY0^*$ (CMY0)

TUB material: code=rha4ta

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 155/360 = 0.43$

$H^*_d = G00B_d$

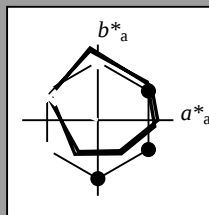
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = G00B_d$

triangle lightness T^*



ORS20a; adapted (a) CIELAB data					
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R_{d,Ma}$	45.4	70.9	44.8	83.9	32
$Y_{d,Ma}$	87.8	-10.2	95.4	96.0	96
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$B_{d,Ma}$	25.0	29.5	-40.4	50.0	306
$M_{d,Ma}$	46.1	79.3	-0.2	79.3	359
$N_{d,Ma}$	24.3	0.0	0.0	0.0	0
$W_{d,Ma}$	95.6	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):

$LabCh^*_{d,Ma}$: 50 -65 29 71 155

$HIC^*_{d,Ma}$: G00B_100_100d

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

0.0 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

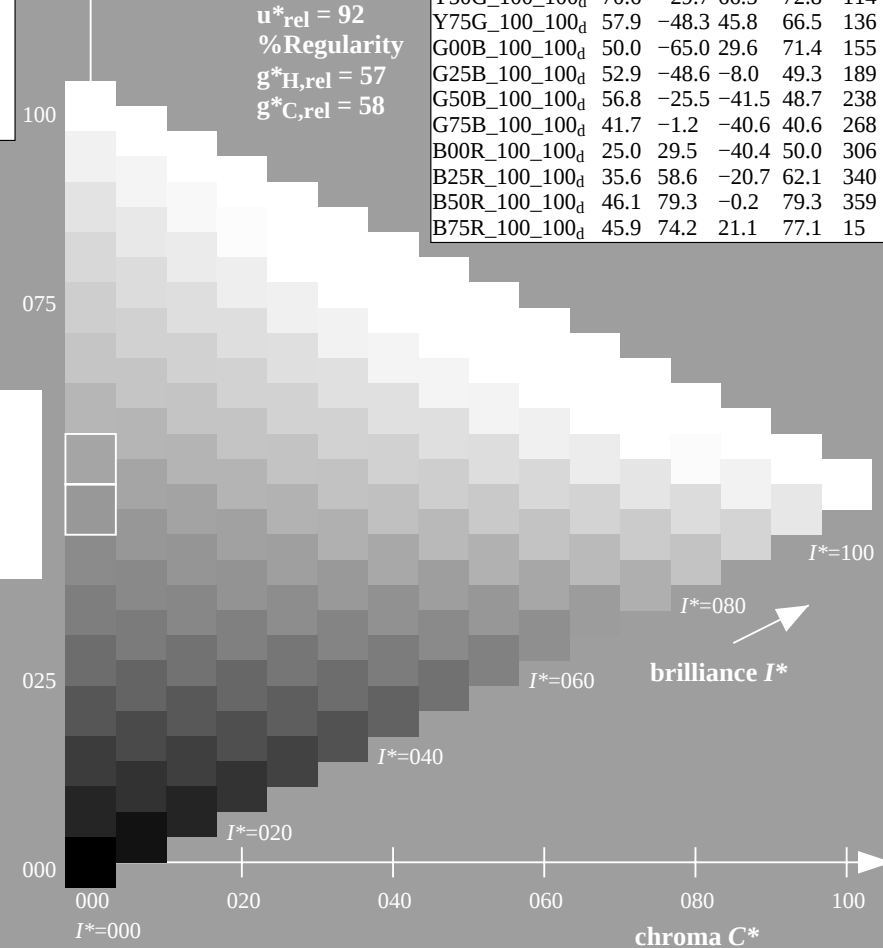
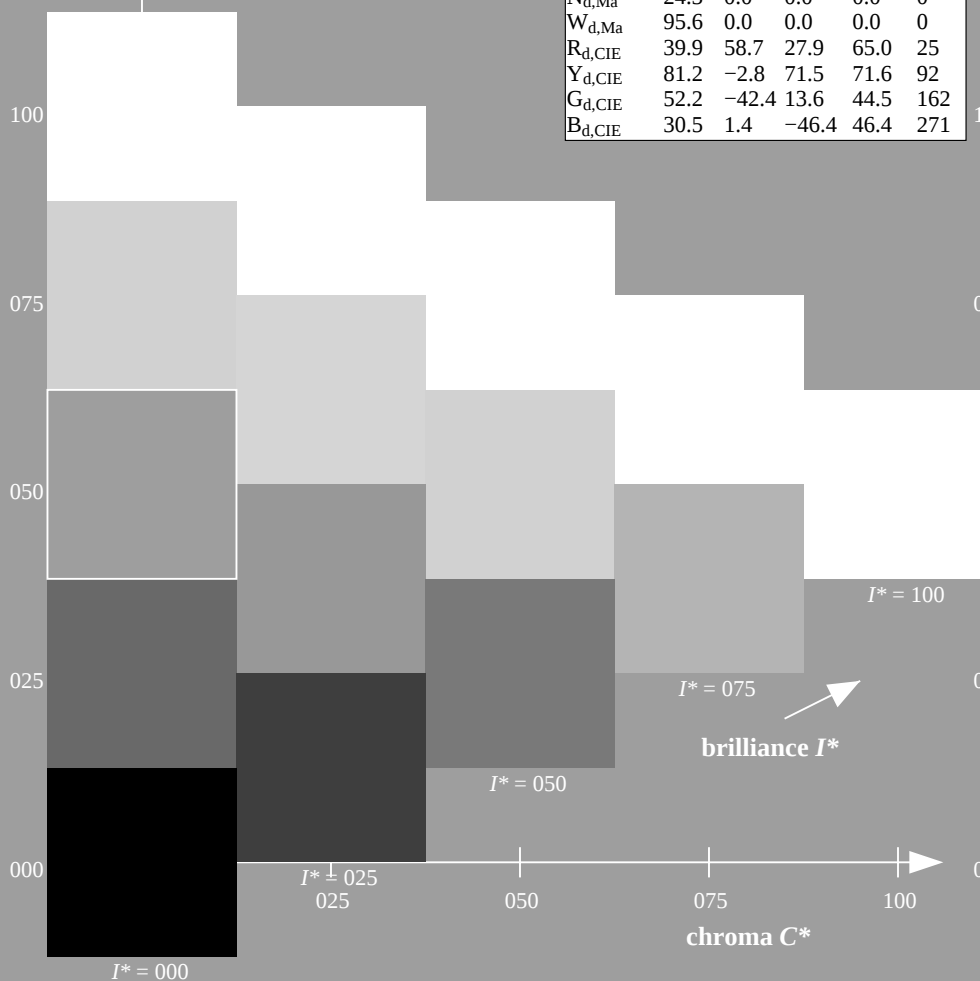
$u^*_{rel} = 92$

% Regularity

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

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$R25Y_{100_100d}$	53.0	53.4	54.8	76.5	45
$R50Y_{100_100d}$	64.9	28.9	68.6	74.5	67
$R75Y_{100_100d}$	78.6	4.3	84.7	84.8	87
$Y00G_{100_100d}$	87.8	-10.2	95.4	96.0	96
$Y25G_{100_100d}$	81.2	-17.0	84.3	86.0	101
$Y50G_{100_100d}$	70.6	-29.7	66.5	72.8	114
$Y75G_{100_100d}$	57.9	-48.3	45.8	66.5	136
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$B25R_{100_100d}$	35.6	58.6	-20.7	62.1	340
$B50R_{100_100d}$	46.1	79.3	-0.2	79.3	359
$B75R_{100_100d}$	45.9	74.2	21.1	77.1	15



1-103331-L0 QE770-72

TUB-test chart QE77; hue code: $H^*_d = G00B_d$
Test chart according to DIN 33872, 3D=1, de=0, $cmY0^*$

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

TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS
application for measurement of offset print output, separation $cmY0^*$ (CMY0)

TUB material: code=rha4ta

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 155/360 = 0.43$

$H^*_d = G00B_d$

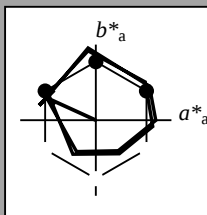
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = G00B_d$

triangle lightness T^*



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M _{d,Ma}	46.1	79.3	-0.2	79.3	359
N _{d,Ma}	24.3	0.0	0.0	0.0	0
W _{d,Ma}	95.6	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):

$LabCh^*_{d,Ma}$: 50 -65 29 71 155

$HIC^*_{d,Ma}$: G00B_100_100_d

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

0.0 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

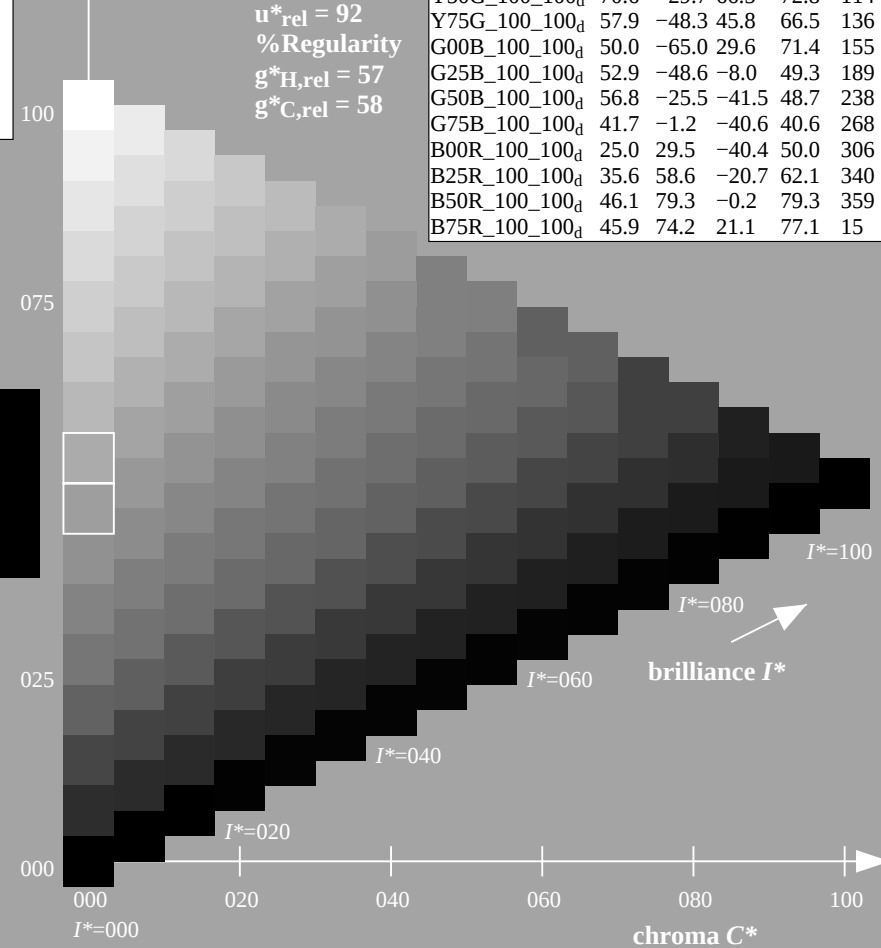
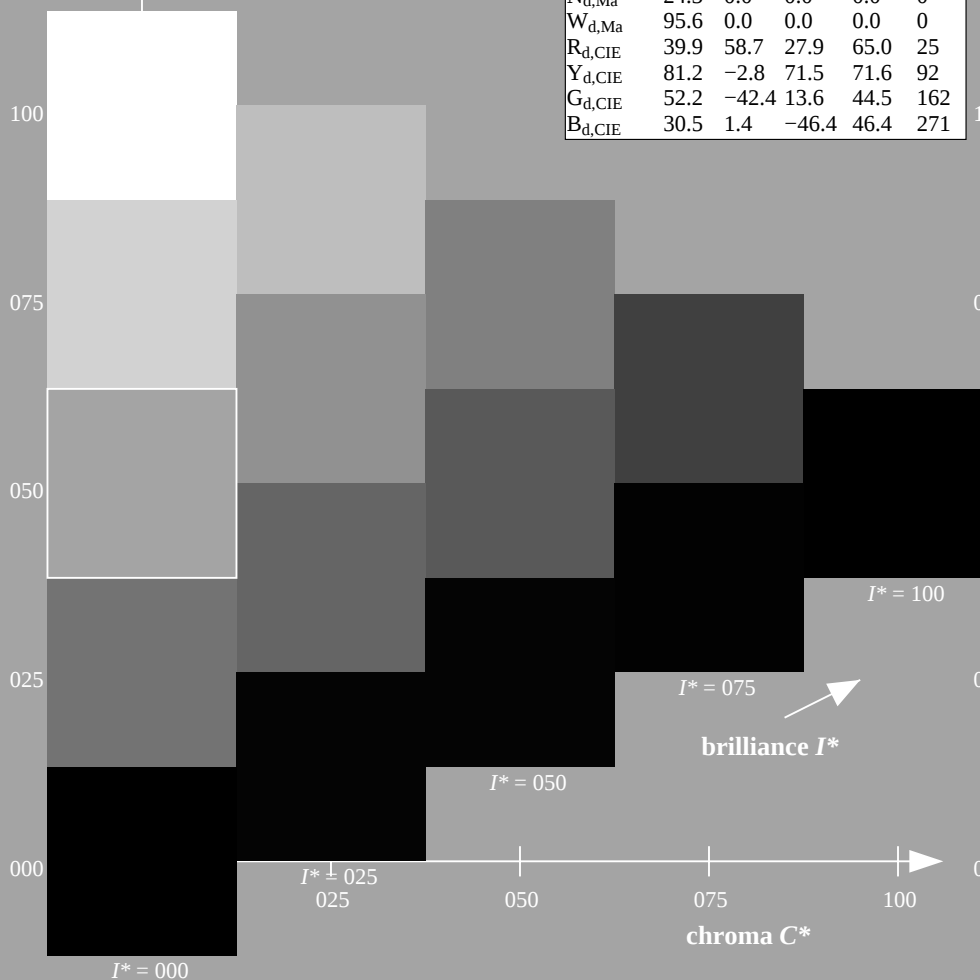
$u^*_{rel} = 92$

% Regularity

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

ORS20a; adapted (a) CIELAB data					
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R50Y_100_100 _d	64.9	28.9	68.6	74.5	67
R75Y_100_100 _d	78.6	4.3	84.7	84.8	87
Y00G_100_100 _d	87.8	-10.2	95.4	96.0	96
Y25G_100_100 _d	81.2	-17.0	84.3	86.0	101
Y50G_100_100 _d	70.6	-29.7	66.5	72.8	114
Y75G_100_100 _d	57.9	-48.3	45.8	66.5	136
G00B_100_100 _d	50.0	-65.0	29.6	71.4	155
G25B_100_100 _d	52.9	-48.6	-8.0	49.3	189
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G75B_100_100 _d	41.7	-1.2	-40.6	40.6	268
B00R_100_100 _d	25.0	29.5	-40.4	50.0	306
B25R_100_100 _d	35.6	58.6	-20.7	62.1	340
B50R_100_100 _d	46.1	79.3	-0.2	79.3	359
B75R_100_100 _d	45.9	74.2	21.1	77.1	15



TUB-test chart QE77; hue code: $H^*_d = G00B_d$
Test chart according to DIN 33872, 3D=1, de=0, $cmY0^*$

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

TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS
application for measurement of offset print output, separation $cmY0^*$ (CMY0)

TUB material: code=rha4ta

http://130.149.60.45/~farbmetrik/QE77/QE77L0FP.PDF /.PS; 3D-linearization
F: 3D-linearization QE77/QE77LE30FP.DAT in file (F), page 6/33

see similar files: <http://130.149.60.45/~farbmetrik/QE77/QE77.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

1-103531-L0 QE770-72

TUB-test chart QE77; hue code: $H_d^* = G00B_d$
Test chart according to DIN 33872, 3D=1, $de=0$, $cmY0^*$

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

1-103531-E0

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$J=Y_d$ Yellow

$LCH^*_d = 87.8 \ 96.0 \ 96.1$
 $LAB^*_d = 87.8 \ -10.2 \ 95.4$
 $rgb^*_d = 1.0 \ 1.0 \ 0.0$

$L=G_d$ leaf-green

$LCH^*_d = 50.0 \ 71.4 \ 155.5$
 $LAB^*_d = 50.0 \ -65.0 \ 29.6$
 $rgb^*_d = 0.0 \ 1.0 \ 0.0$

$C=C_d$ cyan-blue

$LCH^*_d = 56.8 \ 48.7 \ 238.4$
 $LAB^*_d = 56.8 \ -25.5 \ -41.5$
 $rgb^*_d = 0.0 \ 1.0 \ 1.0$

$O=R_d$ orange-red

$LCH^*_d = 45.4 \ 83.9 \ 32.3$
 $LAB^*_d = 45.4 \ 70.9 \ 44.8$
 $rgb^*_d = 1.0 \ 0.0 \ 0.0$

$M=M_d$ magenta-red

$LCH^*_d = 46.1 \ 79.3 \ 359.8$
 $LAB^*_d = 46.1 \ 79.3 \ -0.2$
 $rgb^*_d = 1.0 \ 0.0 \ 1.0$

$V=B_d$ violet-blue

$LCH^*_d = 25.0 \ 50.0 \ 306.2$
 $LAB^*_d = 25.0 \ 29.5 \ -40.4$
 $rgb^*_d = 0.0 \ 0.0 \ 1.0$

Y_e yellow

$LCH^*_e = 83.6 \ 90.4 \ 92.3$
 $LAB^*_e = 83.6 \ -3.6 \ 90.4$
 $rgb^*_{de} = 1.0 \ 0.878 \ 0.0$

G_e green

$LCH^*_e = 50.6 \ 65.2 \ 162.2$
 $LAB^*_e = 50.6 \ -62.1 \ 19.9$
 $rgb^*_{de} = 0.0 \ 1.0 \ 0.151$

C_e blue-green

$LCH^*_e = 55.0 \ 45.3 \ 216.9$
 $LAB^*_e = 55.0 \ -36.2 \ -27.2$
 $rgb^*_{de} = 0.0 \ 1.0 \ 0.747$

B_e blue

$LCH^*_e = 40.2 \ 40.6 \ 271.7$
 $LAB^*_e = 40.2 \ 1.2 \ -40.6$
 $rgb^*_{de} = 0.0 \ 0.458 \ 1.0$

R_e red

$LCH^*_e = 45.6 \ 80.0 \ 25.4$
 $LAB^*_e = 45.6 \ 72.2 \ 34.4$
 $rgb^*_{de} = 1.0 \ 0.0 \ 0.254$

M_e blue-red

$LCH^*_e = 31.1 \ 55.9 \ 328.6$
 $LAB^*_e = 31.1 \ 47.7 \ -29.1$
 $rgb^*_{de} = 0.321 \ 0.0 \ 1.0$

Y_s yellow

$LCH^*_s = 81.4 \ 87.9 \ 90.0$
 $LAB^*_s = 81.4 \ 0.0 \ 87.9$
 $rgb^*_{ds} = 1.0 \ 0.828 \ 0.0$

G_s green

$LCH^*_s = 52.3 \ 68.9 \ 150.0$
 $LAB^*_s = 52.3 \ -59.6 \ 34.4$
 $rgb^*_{ds} = 0.062 \ 1.0 \ 0.0$

C_s blue-green

$LCH^*_s = 54.5 \ 45.7 \ 210.0$
 $LAB^*_s = 54.5 \ -39.6 \ -22.8$
 $rgb^*_{ds} = 0.0 \ 1.0 \ 0.685$

R_s red

$LCH^*_s = 45.5 \ 82.4 \ 30.0$
 $LAB^*_s = 45.5 \ 71.3 \ 41.2$
 $rgb^*_{ds} = 1.0 \ 0.0 \ 0.096$

M_s blue-red

$LCH^*_s = 31.6 \ 56.5 \ 330.0$
 $LAB^*_s = 31.6 \ 49.0 \ -28.2$
 $rgb^*_{ds} = 0.337 \ 0.0 \ 1.0$

B_s blue

$LCH^*_s = 40.9 \ 40.6 \ 270.0$
 $LAB^*_s = 40.9 \ 0.0 \ -40.6$
 $rgb^*_{ds} = 0.0 \ 0.479 \ 1.0$

Notes to the CIELAB chroma diagrams (a^*_d, b^*_d), (a^*_s, b^*_s), (a^*_e, b^*_e)

1. For the rgb^*_e -input values the CIELAB data LCH^*_e and LAB^*_e have been calculated.

2. For the calculation of the standard hue angle $h_{ab,s}$ use for any device values rgb^*_e the equation:

$$h_{ab,s} = \text{atan} [r^*_d \cos(30) + g^*_d \cos(150)] / [r^*_d \sin(30) + g^*_d \sin(150) + b^*_d \sin(270)] \quad (1)$$

3. For the 48 or 360 equally spaced standard hue angles $h_{ab,s}$ of the colours of maximum chroma use the seven hue angles of the 60 degree colours s : $h_{ab,si} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$ ($i=0,6$) and the equations for a 48 and 360 step hue circle:

$$h_{48ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (2)$$

$$h_{360ab,sij} = h_{ab,si} + j [h_{ab,si+1} - h_{ab,si}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (3)$$

4. For the 48 or 360 elementary hue angles $h_{ab,e}$ of the colours of maximum chroma use the seven hue angles of the elementary colours e : $h_{ab,ei} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$ ($i=0,6$) and the equations for a 48 and 360 step elementary hue circle:

$$h_{48ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7) \quad (4)$$

$$h_{360ab,eij} = h_{ab,ei} + j [h_{ab,ei+1} - h_{ab,ei}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (5)$$

5. For any elementary hue angle $h_{ab,e}$ there is a well defined device hue angle $h_{ab,d}$ see the following tables, columns 1 to 5 or 1 to 4.

6. The values rgb^*_e produce the output of the device-independent elementary hues

1-103631-L0 QE770-72 LAB*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

TUB-test chart QE77; hue code: $H^*_d=G00B_d$
48 step hue circles; $rgb-LabCh^*$ -tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmy0^*_{dd}$

Output: Offset standard print; separation cmy0*, D65, page 7/33

The angles of the three colour (x=LabCh) LAB* ddx64M (x=LabCh)										The angles of the elementary colour (x=LabCh) LAB* ddx361M (x=LabCh)										The angles of the elementary colour (x=LabCh) LAB* ddx361M (x=LabCh)														
Lab.d	Lab.s	Lab.e	rgb* ddx64M	LAB* ddx64M (x=LabCh)	rgb* ddx361M	LAB* ddx361M (x=LabCh)	rgb* ddx361M	LAB* ddx361M (x=LabCh)	rgb* ddx361M	LAB* ddx361M (x=LabCh)	rgb* ddx361M	LAB* ddx361M (x=LabCh)	rgb* ddx361M	LAB* ddx361M (x=LabCh)	rgb* ddx361M	LAB* ddx361M (x=LabCh)	rgb* ddx361M	LAB* ddx361M (x=LabCh)																
32.3	30.0	25.4	1.0	0.0	0.0	45.4	70.9	44.8	83.9	32.3	1.0	0.0	0.0	45.5	70.9	44.9	83.9	32	1.0	0.0	0.096	45.5	71.4	41.2	82.4	30	1.0	0.0	0.255	45.7	72.2	34.4	80.0	25
38.1	37.5	33.8	1.0	0.125	0.0	48.9	62.8	49.4	79.9	38.1	1.0	0.117	0.0	48.7	63.4	49.1	80.2	37	1.0	0.1	0.0	48.2	64.5	48.6	80.7	37	1.0	0.021	0.0	46.0	69.6	45.7	83.3	33
46.8	45.0	42.1	1.0	0.25	0.0	53.6	51.9	55.5	76.0	46.8	1.0	0.25	0.0	53.7	52.0	55.5	76.0	46	1.0	0.223	0.0	52.7	54.4	54.4	76.9	45	1.0	0.183	0.0	51.1	57.9	52.5	78.1	42
56.9	52.5	50.5	1.0	0.375	0.0	59.1	40.3	62.0	74.0	56.9	1.0	0.367	0.0	58.8	41.1	61.7	74.2	56	1.0	0.313	0.0	56.5	46.2	59.1	75.0	52	1.0	0.288	0.0	55.4	48.5	57.8	75.4	49
67.1	60.0	58.8	1.0	0.5	0.0	64.9	28.9	68.6	74.5	67.1	1.0	0.5	0.0	64.9	28.9	68.7	74.5	67	1.0	0.412	0.0	60.9	37.1	64.2	74.2	60	1.0	0.398	0.0	60.3	38.3	63.5	74.1	58
78.6	67.5	67.2	1.0	0.625	0.0	72.1	15.4	77.1	78.6	78.6	1.0	0.617	0.0	71.6	16.5	76.7	78.4	77	1.0	0.498	0.0	64.8	29.1	68.6	74.5	67	1.0	0.494	0.0	64.6	29.5	68.4	74.5	66
86.2	75.5	75.6	1.0	0.75	0.0	77.9	5.4	83.8	84.0	86.2	1.0	0.75	0.0	77.9	5.5	83.9	84.1	86	1.0	0.585	0.0	69.8	20.0	74.7	77.4	75	1.0	0.592	0.0	70.2	19.3	75.2	77.6	75
92.1	82.5	83.9	1.0	0.875	0.0	83.4	-3.4	90.2	90.2	92.1	1.0	0.867	0.0	83.1	-2.7	89.8	89.9	91	1.0	0.68	0.0	74.7	11.3	80.3	81.1	82	1.0	0.703	0.0	75.8	9.4	81.5	82.0	88
96.1	90.0	92.3	1.0	1.0	0.0	87.8	-10.2	95.4	96.0	96.1	1.0	1.0	0.0	87.8	-10.1	95.5	96.0	96	1.0	0.829	0.0	81.4	0.0	88.0	88.0	90	1.0	0.879	0.0	83.6	-3.6	90.4	90.5	92
98.8	97.5	101.0	0.875	1.0	0.0	84.3	-13.9	89.2	90.3	98.8	0.883	1.0	0.0	84.6	-13.6	89.7	90.7	98	0.959	1.0	0.0	86.7	-11.4	93.5	94.2	97	0.807	1.0	0.0	82.4	-15.8	86.2	87.7	100
101.8	105.0	109.7	0.75	1.0	0.0	80.7	-17.5	83.5	85.3	101.8	0.75	1.0	0.0	80.8	-17.4	83.6	85.4	101	0.682	1.0	0.0	77.8	-21.2	79.4	82.2	105	0.583	1.0	0.0	73.7	-26.1	72.7	77.3	109
107.6	112.5	118.5	0.625	1.0	0.0	75.3	-24.0	75.7	79.4	107.6	0.633	1.0	0.0	75.7	-23.6	76.3	79.9	107	0.54	1.0	0.0	72.1	-28.0	69.5	75.0	112	0.434	1.0	0.0	68.0	-32.9	62.2	70.5	117
114.0	120.0																																	

Comparison cm

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmy0^*_{dd}$

Output: Offset standard print; separation cmy0*, D65, page 8/33

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd64M}	LAB^*_{ddx64M} (x=LabCh)	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
32.3	30.0	25.4	1.0 0.0 0.0	45.4 70.9 44.8 83.9 32.3	32.3	1.0 0.0 0.0	45.7 72.2 34.4 80.0 25		
38.1	37.5	33.8	1.0 0.125 0.0	48.9 62.8 49.4 79.9 38.1	38.1	1.0 0.021 0.0	46.0 69.6 45.7 83.3 33		
46.8	45.0	42.1	1.0 0.25 0.0	53.6 51.9 55.5 76.0 46.8	46.8	1.0 0.183 0.0	51.1 57.9 52.5 78.1 42		
56.9	52.5	50.5	1.0 0.375 0.0	59.1 40.3 62.0 74.0 56.9	56.9	1.0 0.288 0.0	55.4 48.5 57.8 75.4 49		
67.1	60.0	58.8	1.0 0.5 0.0	64.9 28.9 68.6 74.5 67.1	67.1	1.0 0.398 0.0	60.3 38.3 63.5 74.1 58		
78.6	67.5	67.2	1.0 0.625 0.0	72.1 15.4 77.1 78.6 78.6	78.6	1.0 0.494 0.0	64.6 29.5 68.4 74.5 66		
86.2	75.0	75.6	1.0 0.75 0.0	77.9 5.4 83.8 84.0 86.2	86.2	1.0 0.592 0.0	70.2 19.3 75.2 77.6 75		
92.1	82.5	83.9	1.0 0.875 0.0	83.4 -3.4 90.2 90.2 92.1	92.1	1.0 0.703 0.0	75.8 9.4 81.5 82.0 83		
96.1	90.0	92.3	1.0 1.0 0.0	87.8 -10.2 95.4 96.0 96.1	96.1	1.0 0.879 0.0	83.6 -3.6 90.4 90.5 92		
98.8	97.5	101.0	0.875 1.0 0.0	84.3 -13.9 89.2 90.3 98.8	98.8	0.807 1.0 0.0	82.4 -15.8 86.2 87.7 100		
101.8	105.0	109.7	0.75 1.0 0.0	80.7 -17.5 83.5 85.3 101.8	101.8	0.583 1.0 0.0	73.7 -26.1 72.7 77.3 109		
107.6	112.5	118.5	0.625 1.0 0.0	75.3 -24.0 75.7 79.4 107.6	107.6	0.434 1.0 0.0	68.0 -32.9 62.2 70.5 117		
114.0	120.0	127.2	0.5 1.0 0.0	70.6 -29.7 66.5 72.8 114.0	114.0	0.322 1.0 0.0	62.6 -40.8 53.8 67.6 127		
121.4	127.5	136.0	0.375 1.0 0.0	65.7 -35.6 58.3 68.3 121.4	121.4	0.249 1.0 0.0	58.4 -47.4 46.8 66.6 135		
135.3	135.0	144.7	0.25 1.0 0.0	58.4 -47.3 46.8 66.6 135.3	135.3	0.122 1.0 0.0	54.6 -54.2 38.4 66.5 144		
144.4	142.5	153.4	0.125 1.0 0.0	54.7 -53.9 38.5 66.3 144.4	144.4	0.03 1.0 0.0	51.2 -62.4 32.0 70.2 152		
155.5	150.0	162.2	0.0 1.0 0.0	50.0 -65.0 29.6 71.4 155.5	155.5	0.0 1.0 0.151	50.7 -62.0 19.9 65.2 162		
160.7	157.5	169.0	0.0 1.0 0.125	50.5 -62.8 21.9 66.5 160.7	160.7	0.0 1.0 0.261	51.3 -58.5 11.8 59.8 168		
167.7	165.0	175.9	0.0 1.0 0.25	51.2 -58.9 12.7 60.3 167.7	167.7	0.0 1.0 0.364	52.0 -55.0 3.9 55.2 175		
176.7	172.5	182.7	0.0 1.0 0.375	52.0 -54.5 3.1 54.6 176.7	176.7	0.0 1.0 0.43	52.5 -52.2 -2.0 52.3 182		
189.3	180.0	189.6	0.0 1.0 0.5	52.9 -48.6 -8.0 49.3 189.3	189.3	0.0 1.0 0.502	53.0 -48.5 -8.1 49.3 189		
203.2	187.5	196.4	0.0 1.0 0.625	54.0 -42.3 -18.1 46.1 203.2	203.2	0.0 1.0 0.56	53.5 -45.9 -13.1 47.8 195		
217.2	195.0	203.2	0.0 1.0 0.75	55.0 -36.0 -27.4 45.3 217.2	217.2	0.0 1.0 0.626	54.1 -42.3 -18.1 46.1 203		
228.3	202.5	210.1	0.0 1.0 0.875	55.8 -30.7 -34.5 46.2 228.3	228.3	0.0 1.0 0.682	54.5 -39.6 -22.6 45.7 209		
238.4	210.0	216.9	0.0 1.0 1.0	56.8 -25.5 -41.5 48.7 238.4	238.4	0.0 1.0 0.747	55.0 -36.1 -27.2 45.3 216		
242.9	217.5	223.8	0.0 0.875 1.0	54.1 -21.1 -41.3 46.4 242.9	242.9	0.0 1.0 0.819	55.5 -33.2 -31.3 45.8 223		
249.3	225.0	230.6	0.0 0.75 1.0	50.4 -15.5 -41.1 43.9 249.3	249.3	0.0 1.0 0.904	56.1 -29.6 -36.1 46.8 230		
256.9	232.5	237.5	0.0 0.625 1.0	46.5 -9.4 -40.8 41.9 256.9	256.9	0.0 1.0 0.983	56.7 -26.2 -40.5 48.4 237		
268.2	240.0	244.3	0.0 0.5 1.0	41.7 -1.2 -40.6 40.6 268.2	268.2	0.0 0.847	1.0 53.3 -19.8 -41.3 45.9 244		
278.6	247.5	251.2	0.0 0.375 1.0	37.3 6.1 -40.2 40.7 278.6	278.6	0.0 0.726	1.0 49.7 -14.3 -41.1 43.6 250		
289.6	255.0	258.0	0.0 0.25 1.0	32.8 14.3 -40.2 42.7 289.6	289.6	0.0 0.613	1.0 46.1 -8.6 -40.8 41.9 258		
299.0	262.5	264.8	0.0 0.125 1.0	28.6 22.4 -40.2 46.1 299.0	299.0	0.0 0.542	1.0 43.4 -3.9 -40.8 41.1 264		
306.2	270.0	271.7	0.0 0.0 1.0	25.0 29.5 -40.4 50.0 306.2	306.2	0.0 0.458	1.0 40.3 1.2 -40.6 40.7 271		
314.7	277.5	278.8	0.125 0.0 1.0	27.9 36.0 -36.4 51.2 314.7	314.7	0.0 0.378	1.0 37.5 5.9 -40.2 40.7 278		
322.1	285.0	285.9	0.25 0.0 1.0	28.8 41.9 -32.5 53.1 322.1	322.1	0.0 0.292	1.0 34.4 11.6 -40.3 42.0 285		
333.3	292.5	293.0	0.375 0.0 1.0	32.7 51.8 -26.0 58.0 333.3	333.3	0.0 0.211	1.0 31.5 16.8 -40.3 43.8 292		
340.5	300.0	300.1	0.5 0.0 1.0	35.6 58.6 -20.7 62.1 340.5	340.5	0.0 0.106	1.0 28.1 23.5 -40.3 46.7 300		
347.9	307.5	307.2	0.625 0.0 1.0	38.1 65.4 -14.0 66.9 347.9	347.9	0.0 0.009	0.0 1.0 25.3 30.1 -40.1 50.2 306		
352.5	315.0	314.3	0.75 0.0 1.0	41.8 71.0 -9.2 71.6 352.5	352.5	0.0 0.12	0.0 1.0 27.8 35.8 -36.5 51.2 314		
356.1	322.5	321.4	0.875 0.0 1.0	44.2 75.2 -5.0 75.3 356.1	356.1	0.0 0.231	0.0 1.0 28.7 41.1 -33.2 52.9 321		
359.8	330.0	328.6	1.0 0.0 1.0	46.1 79.3 -0.2 79.3 359.8	359.8	0.0 0.322	0.0 1.0 31.1 47.8 -29.1 56.0 328		
363.0	337.5	335.7	1.0 0.0 0.875	45.9 78.2 4.1 78.3 363.0	363.0	0.0 0.408	0.0 1.0 33.5 53.7 -24.7 59.1 335		
366.4	345.0	342.8	1.0 0.0 0.75	45.9 77.1 8.6 77.6 366.4	366.4	0.0 0.539	0.0 1.0 36.4 60.8 -18.7 63.7 342		
371.1	352.5	349.9	1.0 0.0 0.625	46.0 75.6 14.8 77.0 371.1	371.1	0.0 0.667	0.0 1.0 39.3 67.4 -12.4 68.5 349		
375.9	360.0	357.0	1.0 0.0 0.5	45.9 74.2 21.1 77.1 375.9	375.9	0.0 0.736	0.0 1.0 41.4 70.5 -9.7 71.1 352		
381.2	367.5	364.1	1.0 0.0 0.375	45.8 72.9 28.3 78.3 381.2	381.2	0.0 0.81	0.0 1.0 46.1 79.3 -0.1 79.3 359		
385.6	375.0	371.2	1.0 0.0 0.25	45.6 72.1 34.6 80.0 385.6	385.6	0.0 0.687	0.0 1.0 46.1 79.3 -0.1 79.3 359		
389.3	382.5	378.3	1.0 0.0 0.125	45.5 71.4 40.1 81.9 389.3	389.3	0.0 0.485	0.0 1.0 45.9 74.1 22.0 77.3 376		
392.3	390.0	385.4	1.0 0.0 0.0	45.4 70.9 44.8 83.9 392.3	392.3	1.0 0.0 0.255	45.7 72.2 34.4 80.0 385		

1-103831-L0

QE770-72

LAB*la0, YN=0%, XYZNw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

Output: Offset standard print; separation cmy0*, D65, page 9/33

TUB-test chart QE77; hue code: $H^*_d=G00B_d$
48 step hue circles; $rgb-LabCh^*$ tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmy0^*_{dd}$

TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)
TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM_s: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours RYGBM_e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi}(x=LabCh)$	R_d	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	R_s	$rgb^*_{dd361Mi}$	$LAB^*_{dex361Mi}(x=LabCh)$	R_e	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
32	30	25	1.0	0.0	0.0	45.4	70.9	44.8	83.9	32	1.0	0.0	0.0	0.0	0.0
33	31	26	1.0	0.016	0.0	45.9	69.8	45.5	83.4	33	1.0	0.0	0.055	45.5	71.2
33	32	27	1.0	0.033	0.0	46.3	68.8	46.1	82.8	33	1.0	0.0	0.013	45.5	71.0
34	33	28	1.0	0.05	0.0	46.8	67.7	46.8	82.3	34	1.0	0.0	0.015	0.0	45.9
35	34	29	1.0	0.066	0.0	47.3	66.6	47.4	81.8	35	1.0	0.0	0.036	0.0	46.5
36	35	31	1.0	0.083	0.0	47.7	65.5	48.0	81.2	36	1.0	0.0	0.057	0.0	47.1
36	36	32	1.0	0.1	0.0	48.2	64.4	48.5	80.7	36	1.0	0.0	0.079	0.0	47.6
37	37	33	1.0	0.116	0.0	48.6	63.3	49.1	80.2	37	1.0	0.1	0.0	0.0	48.2
38	38	34	1.0	0.133	0.0	49.2	62.1	49.8	79.6	38	1.0	0.121	0.0	48.8	63.1
39	39	35	1.0	0.15	0.0	49.8	60.7	50.7	79.1	39	1.0	0.137	0.0	49.4	61.8
41	40	36	1.0	0.166	0.0	50.5	59.2	51.6	78.6	41	1.0	0.151	0.0	49.9	60.6
42	41	37	1.0	0.183	0.0	51.1	57.8	52.5	78.1	42	1.0	0.166	0.0	50.5	59.4
43	42	38	1.0	0.2	0.0	51.7	56.3	53.3	77.5	43	1.0	0.18	0.0	51.0	58.1
44	43	39	1.0	0.216	0.0	52.4	54.9	54.0	77.0	44	1.0	0.194	0.0	51.6	56.9
45	44	41	1.0	0.233	0.0	53.0	53.4	54.8	76.5	45	1.0	0.209	0.0	52.1	55.6
46	45	42	1.0	0.25	0.0	53.6	51.9	55.5	76.0	46	1.0	0.223	0.0	52.7	54.4
48	46	43	1.0	0.266	0.0	54.4	50.4	56.5	75.7	48	1.0	0.237	0.0	53.2	53.1
49	47	44	1.0	0.283	0.0	55.1	48.9	57.4	75.4	49	1.0	0.251	0.0	53.7	51.8
50	48	45	1.0	0.3	0.0	55.8	47.4	58.4	75.2	50	1.0	0.264	0.0	54.3	50.7
52	49	46	1.0	0.316	0.0	56.6	45.8	59.2	74.9	52	1.0	0.276	0.0	54.8	49.6
53	50	47	1.0	0.333	0.0	57.3	44.2	60.1	74.6	53	1.0	0.288	0.0	55.4	48.5
54	51	48	1.0	0.35	0.0	58.0	42.7	60.9	74.4	54	1.0	0.301	0.0	55.9	47.3
56	52	49	1.0	0.366	0.0	58.8	41.1	61.7	74.1	56	1.0	0.313	0.0	56.5	46.2
57	53	51	1.0	0.383	0.0	59.5	39.5	62.5	74.0	57	1.0	0.326	0.0	57.0	45.0
59	54	52	1.0	0.4	0.0	60.3	38.1	63.5	74.1	59	1.0	0.338	0.0	57.6	43.9
60	55	53	1.0	0.416	0.0	61.0	36.6	64.5	74.1	60	1.0	0.35	0.0	58.1	42.7
61	56	54	1.0	0.433	0.0	61.8	35.1	65.4	74.2	61	1.0	0.363	0.0	58.6	41.5
63	57	55	1.0	0.45	0.0	62.6	33.6	66.2	74.3	63	1.0	0.375	0.0	59.2	40.3
64	58	56	1.0	0.466	0.0	63.3	32.0	67.1	74.4	64	1.0	0.387	0.0	59.8	39.3
65	59	57	1.0	0.483	0.0	64.1	30.5	67.9	74.4	65	1.0	0.4	0.0	60.3	38.2
67	60	58	1.0	0.5	0.0	64.9	28.9	68.6	74.5	67	1.0	0.412	0.0	60.9	37.1
68	61	60	1.0	0.516	0.0	65.8	27.2	69.9	75.0	68	1.0	0.424	0.0	61.4	36.0
70	62	61	1.0	0.533	0.0	66.8	25.5	71.1	75.6	70	1.0	0.436	0.0	62.0	34.9
71	63	62	1.0	0.555	0.0	67.7	23.8	72.3	76.1	71	1.0	0.449	0.0	62.6	33.7
73	64	63	1.0	0.566	0.0	68.7	22.0	73.5	76.7	73	1.0	0.461	0.0	63.1	32.6
74	65	64	1.0	0.583	0.0	69.7	20.2	74.6	77.3	74	1.0	0.473	0.0	63.7	31.5
76	66	65	1.0	0.6	0.0	70.6	18.3	75.6	77.8	76	1.0	0.486	0.0	64.2	30.3
77	67	66	1.0	0.616	0.0	71.6	16.4	76.6	78.4	77	1.0	0.498	0.0	64.8	29.1
79	68	67	1.0	0.633	0.0	72.5	14.8	77.6	79.0	79	1.0	0.509	0.0	65.4	28.0
80	69	68	1.0	0.65	0.0	73.2	13.6	78.5	79.7	80	1.0	0.52	0.0	66.1	26.9
81	70	70	1.0	0.666	0.0	74.0	12.3	79.5	80.4	81	1.0	0.531	0.0	66.7	25.8
82	71	71	1.0	0.683	0.0	74.8	11.0	80.4	81.1	82	1.0	0.542	0.0	67.3	24.7
83	72	72	1.0	0.7	0.0	75.6	9.6	81.3	81.9	83	1.0	0.553	0.0	67.9	23.6
84	73	73	1.0	0.716	0.0	76.3	8.3	82.2	82.6	84	1.0	0.564	0.0	68.6	22.4
85	74	74	1.0	0.733	0.0	77.1	6.9	83.0	83.3	85	1.0	0.574	0.0	69.2	21.2
86	75	75	1.0	0.75	0.0	77.9	5.4	83.8	84.0	86	1.0	0.585	0.0	69.8	20.0

1-103931-L0

QE770-72

LAB*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*rw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

Output: Offset standard print; separation cmy0*, D65, page 10/33

TUB-test chart QE77; hue code: H*d=G00Bd
48 step hue circles; $rgb-LabCh$ *tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmy0^*_{dd}$

1-103931-F0

see similar files: <http://130.149.60.45/~farbmetrik/QE77/QE77L0FP.PDF> / .PS
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-QE77/QE77L0FP.PDF / .PS
application for measurement of offset print output, separation cmy0* (CMY0)
TUB material: code=rha4ta

TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS
application for measurement of offset print output, separa

1-1031031-E

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Six hue angles of the device colours <i>RYGCBM</i> : $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours <i>RYGCBM</i> : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$													
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{dd361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
114	120	127	0.5	1.0	0.0	70.6	-29.7	66.5	72.8	114			
115	121	128	0.483	1.0	0.0	69.9	-30.5	65.4	72.2	115			
116	122	129	0.466	1.0	0.0	69.3	-31.4	64.3	71.6	116			
117	123	130	0.45	1.0	0.0	68.6	-32.2	63.2	71.0	117			
117	124	131	0.433	1.0	0.0	68.0	-33.0	62.1	70.4	117			
118	125	133	0.416	1.0	0.0	67.3	-33.8	61.0	69.8	118			
119	126	134	0.4	1.0	0.0	66.7	-34.5	59.9	69.2	119			
120	127	135	0.383	1.0	0.0	66.0	-35.2	58.8	68.6	120			
122	128	136	0.366	1.0	0.0	65.2	-36.4	57.6	68.2	122			
124	129	137	0.35	1.0	0.0	64.2	-38.2	56.2	67.9	124			
126	130	138	0.333	1.0	0.0	63.2	-39.8	54.7	67.7	126			
127	131	140	0.316	1.0	0.0	62.3	-41.4	53.2	67.5	127			
129	132	141	0.3	1.0	0.0	61.3	-43.0	51.7	67.3	129			
131	133	142	0.283	1.0	0.0	60.3	-44.5	50.1	67.0	131			
133	134	143	0.266	1.0	0.0	59.3	-45.9	48.5	66.8	133			
135	135	144	0.25	1.0	0.0	58.4	-47.3	46.8	66.6	135			
136	136	145	0.233	1.0	0.0	57.9	-48.3	45.8	66.5	136			
137	137	147	0.216	1.0	0.0	57.4	-49.2	44.7	66.5	137			
138	138	148	0.2	1.0	0.0	56.9	-50.1	43.6	66.5	138			
140	139	149	0.183	1.0	0.0	56.4	-51.0	42.5	66.4	140			
141	140	150	0.166	1.0	0.0	55.9	-51.9	41.4	66.4	141			
142	141	151	0.15	1.0	0.0	55.4	-52.7	40.3	66.4	142			
143	142	152	0.133	1.0	0.0	54.9	-53.5	39.1	66.3	143			
145	143	154	0.116	1.0	0.0	54.4	-54.7	38.0	66.6	145			
146	144	155	0.1	1.0	0.0	53.7	-56.2	37.0	67.3	146			
148	145	156	0.083	1.0	0.0	53.1	-57.7	35.9	68.0	148			
149	146	157	0.066	1.0	0.0	52.5	-59.2	34.7	68.7	149			
151	147	158	0.049	1.0	0.0	51.9	-60.7	33.5	69.4	151			
152	148	159	0.033	1.0	0.0	51.3	-62.2	32.2	70.0	152			
154	149	161	0.016	1.0	0.0	50.6	-63.6	30.9	70.7	154			
155	150	162	0.0	1.0	0.0	50.0	-65.0	29.6	71.4	155	G_d		
156	151	163	0.0	1.0	0.016	50.1	-64.7	28.5	70.7	156			
156	152	164	0.0	1.0	0.033	50.1	-64.5	27.4	70.1	156			
157	153	164	0.0	1.0	0.05	50.2	-64.2	26.4	69.4	157			
158	154	165	0.0	1.0	0.066	50.3	-63.9	25.4	68.8	158			
159	155	166	0.0	1.0	0.083	50.3	-63.6	24.4	68.1	159			
159	156	167	0.0	1.0	0.1	50.4	-63.3	23.4	67.5	159			
160	157	168	0.0	1.0	0.116	50.5	-62.9	22.4	66.8	160			
161	158	169	0.0	1.0	0.133	50.5	-62.5	21.2	66.1	161			
162	159	170	0.0	1.0	0.15	50.6	-62.1	19.9	65.2	162			
163	160	171	0.0	1.0	0.166	50.7	-61.6	18.7	64.4	163			
164	161	172	0.0	1.0	0.183	50.8	-61.1	17.4	63.6	164			
164	162	173	0.0	1.0	0.2	50.9	-60.6	16.2	62.7	164			
165	163	174	0.0	1.0	0.216	51.0	-60.1	15.0	61.9	165			
166	164	175	0.0	1.0	0.233	51.1	-59.5	13.9	61.1	166			
167	165	175	0.0	1.0	0.25	51.2	-58.9	12.7	60.3	167			
											G_s		

1-1031131-L0 QE770-72 LAB*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

Output: Offset standard print; separation cmy0*, D65, page 12/33

TUB-test chart QE77; hue code: $H^*_d=G00B_d$
48 step hue circles; $rgb-LabCh$ *tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmy0^*_{dd}$

TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)
TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM_s: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours RYGBM_e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Six hue angles of the device colours <i>RYGCBM</i> _d : $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours <i>RYGCBM</i> _e : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$													
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{dsx361Mi}$ (x=LabCh)	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}$ (x=LabCh)	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}$ (x=LabCh)	$rgb^*_{dd361Mi}$	rgb^*_{ds}	rgb^*_{de}	
167	165	175	0.0	1.0	0.25	51.2	-58.9	12.7	60.3	167	0.0	1.0	0.25
168	166	176	0.0	1.0	0.266	51.3	-58.4	11.3	59.5	168	0.0	1.0	0.267
170	167	177	0.0	1.0	0.283	51.4	-57.9	10.0	58.8	170	0.0	1.0	0.283
171	168	178	0.0	1.0	0.3	51.5	-57.3	8.7	58.0	171	0.0	1.0	0.3
172	169	179	0.0	1.0	0.316	51.6	-56.8	7.4	57.3	172	0.0	1.0	0.317
173	170	180	0.0	1.0	0.333	51.7	-56.2	6.1	56.5	173	0.0	1.0	0.333
174	171	181	0.0	1.0	0.35	51.8	-55.5	4.9	55.8	174	0.0	1.0	0.35
176	172	182	0.0	1.0	0.366	51.9	-54.9	3.7	55.0	176	0.0	1.0	0.367
177	173	183	0.0	1.0	0.383	52.0	-54.2	2.3	54.3	177	0.0	1.0	0.383
179	174	184	0.0	1.0	0.4	52.2	-53.6	0.7	53.6	179	0.0	1.0	0.4
180	175	185	0.0	1.0	0.416	52.3	-52.8	-0.8	52.9	180	0.0	1.0	0.417
182	176	185	0.0	1.0	0.433	52.4	-52.1	-2.3	52.1	182	0.0	1.0	0.433
184	177	186	0.0	1.0	0.45	52.6	-51.3	-3.8	51.4	184	0.0	1.0	0.45
185	178	187	0.0	1.0	0.466	52.7	-50.4	-5.3	50.7	185	0.0	1.0	0.467
187	179	188	0.0	1.0	0.483	52.8	-49.6	-6.6	50.0	187	0.0	1.0	0.483
189	180	189	0.0	1.0	0.5	52.9	-48.6	-8.0	49.3	189	0.0	1.0	0.5
191	181	190	0.0	1.0	0.516	53.1	-47.9	-9.5	48.9	191	0.0	1.0	0.517
193	182	191	0.0	1.0	0.533	53.2	-47.2	-10.9	48.4	193	0.0	1.0	0.533
194	183	192	0.0	1.0	0.55	53.4	-46.4	-12.3	48.0	194	0.0	1.0	0.55
196	184	193	0.0	1.0	0.566	53.5	-45.6	-13.7	47.6	196	0.0	1.0	0.567
198	185	194	0.0	1.0	0.583	53.6	-44.7	-15.0	47.1	198	0.0	1.0	0.583
200	186	195	0.0	1.0	0.6	53.8	-43.8	-16.3	46.7	200	0.0	1.0	0.6
202	187	195	0.0	1.0	0.616	53.9	-42.8	-17.5	46.3	202	0.0	1.0	0.617
204	188	196	0.0	1.0	0.633	54.1	-42.0	-18.8	46.0	204	0.0	1.0	0.633
206	189	197	0.0	1.0	0.65	54.2	-41.2	-20.1	45.9	206	0.0	1.0	0.65
207	190	198	0.0	1.0	0.666	54.3	-40.5	-21.4	45.8	207	0.0	1.0	0.667
209	191	199	0.0	1.0	0.683	54.5	-39.7	-22.7	45.7	209	0.0	1.0	0.683
211	192	200	0.0	1.0	0.7	54.6	-38.8	-23.9	45.6	211	0.0	1.0	0.7
213	193	201	0.0	1.0	0.716	54.7	-37.9	-25.1	45.5	213	0.0	1.0	0.717
215	194	202	0.0	1.0	0.733	54.9	-37.0	-26.3	45.4	215	0.0	1.0	0.733
217	195	203	0.0	1.0	0.75	55.0	-36.0	-27.4	45.3	217	0.0	1.0	0.75
218	196	204	0.0	1.0	0.766	55.1	-35.4	-28.4	45.4	218	0.0	1.0	0.767
220	197	205	0.0	1.0	0.783	55.2	-34.7	-29.4	45.5	220	0.0	1.0	0.783
221	198	206	0.0	1.0	0.8	55.3	-34.0	-30.3	45.6	221	0.0	1.0	0.8
223	199	206	0.0	1.0	0.816	55.4	-33.3	-31.3	45.7	223	0.0	1.0	0.817
224	200	207	0.0	1.0	0.833	55.6	-32.6	-32.2	45.9	224	0.0	1.0	0.833
226	201	208	0.0	1.0	0.85	55.7	-31.8	-33.1	46.0	226	0.0	1.0	0.85
227	202	209	0.0	1.0	0.866	55.8	-31.1	-34.0	46.1	227	0.0	1.0	0.867
229	203	210	0.0	1.0	0.883	55.9	-30.4	-35.0	46.3	229	0.0	1.0	0.883
230	204	211	0.0	1.0	0.9	56.0	-29.7	-35.9	46.7	230	0.0	1.0	0.9
231	205	212	0.0	1.0	0.916	56.1	-29.1	-36.9	47.0	231	0.0	1.0	0.917
233	206	213	0.0	1.0	0.933	56.3	-28.4	-37.8	47.3	233	0.0	1.0	0.933
234	207	214	0.0	1.0	0.95	56.4	-27.7	-38.8	47.7	234	0.0	1.0	0.95
235	208	215	0.0	1.0	0.966	56.5	-27.0	-39.7	48.0	235	0.0	1.0	0.967
237	209	216	0.0	1.0	0.983	56.6	-26.2	-40.6	48.3	237	0.0	1.0	0.983
238	210	216	0.0	1.0	1.0	56.8	-25.5	-41.5	48.7	238	0.0	1.0	1.0

1-1031231-L0 QE770-72 LAB*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

Output: Offset standard print; separation cmy0*, D65, page 13/33

TUB-test chart QE77; hue code: H*d=G00Bd
48 step hue circles; $rgb-LabCh$ *tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmy0^*_{dd}$

TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi}(x=LabCh)$	C_d	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	$210C_s$	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$216C_e$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}	
238	210	216	0.0	1.0	1.0	56.8	-25.5 -41.5 48.7	238	0.0	1.0	0.685 54.5	-39.5 -22.8 45.7	210	0.0	1.0	1.0
239	211	217	0.0	0.983 1.0	56.4	-24.9 -41.5 48.4	239	0.0	0.983 1.0	0.0	1.0	0.757 55.1	-35.7 -27.8 45.4	217	0.0	0.983 1.0
239	212	218	0.0	0.966 1.0	56.1	-24.3 -41.5 48.1	239	0.0	0.967 1.0	0.0	1.0	0.767 55.2	-35.3 -28.4 45.4	218	0.0	0.967 1.0
240	213	219	0.0	0.95 1.0	55.7	-23.7 -41.5 47.8	240	0.0	0.95 1.0	0.0	1.0	0.778 55.2	-34.9 -29.0 45.5	219	0.0	0.95 1.0
240	214	220	0.0	0.933 1.0	55.4	-23.1 -41.5 47.5	240	0.0	0.933 1.0	0.0	1.0	0.788 55.3	-34.5 -29.6 45.6	220	0.0	0.933 1.0
241	215	221	0.0	0.916 1.0	55.0	-22.5 -41.4 47.2	241	0.0	0.917 1.0	0.0	1.0	0.798 55.4	-34.1 -30.2 45.7	221	0.0	0.917 1.0
242	216	222	0.0	0.9 1.0	54.6	-22.0 -41.4 46.9	242	0.0	0.9 1.0	0.0	1.0	0.808 55.4	-33.6 -30.8 45.7	222	0.0	0.9 1.0
242	217	223	0.0	0.883 1.0	54.3	-21.4 -41.4 46.6	242	0.0	0.883 1.0	0.0	1.0	0.819 55.5	-33.2 -31.3 45.8	223	0.0	0.883 1.0
243	218	224	0.0	0.866 1.0	53.9	-20.7 -41.3 46.3	243	0.0	0.867 1.0	0.0	1.0	0.829 55.6	-32.7 -31.9 45.9	224	0.0	0.867 1.0
244	219	225	0.0	0.85 1.0	53.4	-20.0 -41.3 45.9	244	0.0	0.85 1.0	0.0	1.0	0.839 55.6	-32.3 -32.5 45.9	225	0.0	0.85 1.0
245	220	226	0.0	0.833 1.0	52.9	-19.2 -41.3 45.6	245	0.0	0.833 1.0	0.0	1.0	0.85 55.7	-31.8 -33.1 46.0	226	0.0	0.833 1.0
245	221	227	0.0	0.816 1.0	52.4	-18.5 -41.3 45.3	245	0.0	0.817 1.0	0.0	1.0	0.86 55.8	-31.3 -33.6 46.1	227	0.0	0.817 1.0
246	222	227	0.0	0.8 1.0	51.9	-17.7 -41.3 44.9	246	0.0	0.8 1.0	0.0	1.0	0.87 55.8	-30.8 -34.2 46.2	227	0.0	0.8 1.0
247	223	228	0.0	0.783 1.0	51.4	-17.0 -41.2 44.6	247	0.0	0.783 1.0	0.0	1.0	0.881 55.9	-30.4 -34.8 46.3	228	0.0	0.783 1.0
248	224	229	0.0	0.766 1.0	50.9	-16.2 -41.2 44.2	248	0.0	0.767 1.0	0.0	1.0	0.893 56.0	-30.0 -35.4 46.6	229	0.0	0.767 1.0
249	225	230	0.0	0.75 1.0	50.4	-15.5 -41.1 43.9	249	0.0	0.75 1.0	0.0	1.0	0.904 56.1	-29.6 -36.1 46.8	230	0.0	0.75 1.0
250	226	231	0.0	0.733 1.0	49.9	-14.7 -41.1 43.6	250	0.0	0.733 1.0	0.0	1.0	0.915 56.2	-29.1 -36.7 47.0	231	0.0	0.733 1.0
251	227	232	0.0	0.716 1.0	49.4	-13.8 -41.1 43.4	251	0.0	0.717 1.0	0.0	1.0	0.926 56.3	-28.7 -37.4 47.2	232	0.0	0.717 1.0
252	228	233	0.0	0.7 1.0	48.8	-13.0 -41.1 43.1	252	0.0	0.7 1.0	0.0	1.0	0.938 56.3	-28.2 -38.0 47.5	233	0.0	0.7 1.0
253	229	234	0.0	0.683 1.0	48.3	-12.2 -41.1 42.9	253	0.0	0.683 1.0	0.0	1.0	0.949 56.4	-27.7 -38.6 47.7	234	0.0	0.683 1.0
254	230	235	0.0	0.666 1.0	47.8	-11.4 -41.0 42.6	254	0.0	0.667 1.0	0.0	1.0	0.96 56.5	-27.2 -39.3 47.9	235	0.0	0.667 1.0
255	231	236	0.0	0.65 1.0	47.3	-10.6 -41.0 42.3	255	0.0	0.65 1.0	0.0	1.0	0.972 56.6	-26.7 -39.9 48.2	236	0.0	0.65 1.0
256	232	237	0.0	0.633 1.0	46.8	-9.8 -40.9 42.1	256	0.0	0.633 1.0	0.0	1.0	0.983 56.7	-26.2 -40.5 48.4	237	0.0	0.633 1.0
257	233	237	0.0	0.616 1.0	46.2	-8.9 -40.9 41.8	257	0.0	0.617 1.0	0.0	1.0	0.994 56.8	-25.7 -41.1 48.6	237	0.0	0.617 1.0
259	234	238	0.0	0.6 1.0	45.5	-7.8 -40.9 41.7	259	0.0	0.6 1.0	0.0	0.988 1.0	56.6	-25.0 -41.4 48.5	238	0.0	0.6 1.0
260	235	239	0.0	0.583 1.0	44.9	-6.6 -41.0 41.5	260	0.0	0.583 1.0	0.0	0.962 1.0	56.0	-24.1 -41.4 48.1	239	0.0	0.583 1.0
262	236	240	0.0	0.566 1.0	44.2	-5.5 -40.9 41.3	262	0.0	0.567 1.0	0.0	0.937 1.0	55.5	-23.2 -41.4 47.6	240	0.0	0.567 1.0
263	237	241	0.0	0.55 1.0	43.6	-4.4 -40.9 41.1	263	0.0	0.55 1.0	0.0	0.911 1.0	54.9	-22.3 -41.4 47.1	241	0.0	0.55 1.0
265	238	242	0.0	0.533 1.0	43.0	-3.3 -40.8 41.0	265	0.0	0.533 1.0	0.0	0.885 1.0	54.4	-21.4 -41.3 46.7	242	0.0	0.533 1.0
266	239	243	0.0	0.516 1.0	42.3	-2.3 -40.7 40.8	266	0.0	0.517 1.0	0.0	0.864 1.0	53.9	-20.6 -41.3 46.3	243	0.0	0.517 1.0
268	240	244	0.0	0.5 1.0	41.7	-1.2 -40.6 40.6	268	0.0	0.5 1.0	0.0	0.847 1.0	53.3	-19.8 -41.3 45.9	244	0.0	0.5 1.0
269	241	245	0.0	0.483 1.0	41.1	-0.2 -40.6 40.6	269	0.0	0.483 1.0	0.0	0.829 1.0	52.8	-19.0 -41.3 45.6	245	0.0	0.483 1.0
271	242	246	0.0	0.466 1.0	40.5	0.7 -40.6 40.6	271	0.0	0.467 1.0	0.0	0.811 1.0	52.3	-18.1 -41.2 45.2	246	0.0	0.467 1.0
272	243	247	0.0	0.45 1.0	39.9	1.7 -40.6 40.6	272	0.0	0.45 1.0	0.0	0.793 1.0	51.7	-17.3 -41.2 44.8	247	0.0	0.45 1.0
273	244	248	0.0	0.433 1.0	39.3	2.7 -40.6 40.6	273	0.0	0.433 1.0	0.0	0.775 1.0	51.2	-16.6 -41.1 44.5	248	0.0	0.433 1.0
275	245	248	0.0	0.416 1.0	38.8	3.6 -40.5 40.6	275	0.0	0.417 1.0	0.0	0.757 1.0	50.7	-15.8 -41.1 44.1	248	0.0	0.417 1.0
276	246	249	0.0	0.4 1.0	38.2	4.6 -40.4 40.7	276	0.0	0.4 1.0	0.0	0.741 1.0	50.2	-15.0 -41.0 43.8	249	0.0	0.4 1.0
277	247	250	0.0	0.383 1.0	37.6	5.6 -40.3 40.7	277	0.0	0.383 1.0	0.0	0.726 1.0	49.7	-14.3 -41.1 43.6	250	0.0	0.383 1.0
279	248	251	0.0	0.366 1.0	37.0	6.6 -40.2 40.8	279	0.0	0.367 1.0	0.0	0.711 1.0	49.2	-13.5 -41.0 43.4	251	0.0	0.367 1.0
280	249	252	0.0	0.35 1.0	36.4	7.7 -40.3 41.1	280	0.0	0.35 1.0	0.0	0.697 1.0	48.8	-12.8 -41.0 43.1	252	0.0	0.35 1.0
282	250	253	0.0	0.333 1.0	35.8	8.8 -40.4 41.3	282	0.0	0.333 1.0	0.0	0.682 1.0	48.3	-12.1 -41.0 42.9	253	0.0	0.333 1.0
283	251	254	0.0	0.316 1.0	35.2	9.9 -40.4 41.6	283	0.0	0.317 1.0	0.0	0.667 1.0	47.9	-11.4 -41.0 42.6	254	0.0	0.317 1.0
285	252	255	0.0	0.3 1.0	34.6	11.0 -40.4 41.9	285	0.0	0.3 1.0	0.0	0.652 1.0	47.4	-10.7 -40.9 42.4	255	0.0	0.3 1.0
286	253	256	0.0	0.283 1.0	34.0	12.1 -40.3 42.1	286	0.0	0.283 1.0	0.0	0.637 1.0	46.9	-9.9 -40.9 42.2	256	0.0	0.283 1.0
288	254	257	0.0	0.266 1.0	33.4	13.2 -40.3 42.4	288	0.0	0.267 1.0	0.0	0.623 1.0	46.5	-9.2 -40.8 42.0	257	0.0	0.267 1.0
289	255	258	0.0	0.25 1.0	32.8	14.3 -40.2 42.7	289	0.0	0.25 1.0	0.0	0.613 1.0	46.1	-8.6 -40.8 41.9	258	0.0	0.25 1.0

1-1031331-L0 QE770-72 LAB*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

Output: Offset standard print; separation cmy0*, D65, page 14/33

TUB-test chart QE77; hue code: $H^*_d=G00B_d$
48 step hue circles; $rgb-LabCh$ *tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmy0^*_{dd}$

TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)
TUB material: code=rha4ta

Output: Offset standard print; separation cmy0*, D65, page 15/33

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmy0^*_{dd}$

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
Six hue angles of the device colours $RYGCBM_d$: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	LAB^*_{d361Mi}	$LAB^*_{ds361Mi}$	$LAB^*_{dsx361Mi}$	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$LAB^*_{dex361Mi}$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
340	300	300	0.5	0.0	1.0	35.6	58.6	-20.7	62.1	340	0.0	0.109	1.0	28.2	23.3	-40.3	46.6	300	0.5	0.0	1.0	0.0	0.089	1.0	27.6	24.4	-40.3	47.2	301	0.517	0.0	1.0	0.0	0.073	1.0	27.2	25.4	-40.4	47.8	302	0.533	0.0	1.0	0.0	0.056	1.0	26.7	26.3	-40.4	48.3	303	0.55	0.0	1.0	0.0	0.039	1.0	26.2	27.3	-40.4	48.9	304	0.567	0.0	1.0	0.0	0.023	1.0	25.7	28.2	-40.4	49.4	304	0.583	0.0	1.0	0.0	0.004	1.0	25.2	29.4	-40.3	50.0	306	0.6	0.0	1.0	0.0	0.009	0.0	1.0	25.3	30.1	-40.1	50.2	306	0.617	0.0	1.0	0.026	0.0	1.0	25.7	31.0	-39.6	50.3	308	0.633	0.0	1.0	0.041	0.0	1.0	26.0	31.8	-39.1	50.5	309	0.65	0.0	1.0	0.056	0.0	1.0	26.3	32.5	-38.7	50.6	310	0.667	0.0	1.0	0.07	0.0	1.0	26.7	33.3	-38.2	50.8	311	0.683	0.0	1.0	0.085	0.0	1.0	27.0	34.1	-37.7	50.9	312	0.7	0.0	1.0	0.1	0.0	1.0	27.3	34.8	-37.2	51.0	313	0.717	0.0	1.0	0.114	0.0	1.0	27.7	35.5	-36.7	51.2	314	0.733	0.0	1.0	0.13	0.0	1.0	27.9	36.3	-36.2	51.3	315	0.75	0.0	1.0	0.146	0.0	1.0	28.1	37.1	-35.7	51.6	316	0.767	0.0	1.0	0.163	0.0	1.0	28.2	37.9	-35.3	51.8	317	0.783	0.0	1.0	0.18	0.0	1.0	28.3	38.7	-34.8	52.1	318	0.8	0.0	1.0	0.197	0.0	1.0	28.5	39.5	-34.2	52.4	319	0.817	0.0	1.0	0.213	0.0	1.0	28.6	40.3	-33.7	52.6	320	0.833	0.0	1.0	0.23	0.0	1.0	28.7	41.1	-33.2	52.9	321	0.85	0.0	1.0	0.247	0.0	1.0	28.9	41.9	-32.6	53.1	322	0.867	0.0	1.0	0.259	0.0	1.0	29.2	42.7	-32.1	53.5	323	0.883	0.0	1.0	0.27	0.0	1.0	29.5	43.7	-31.6	54.0	324	0.9	0.0	1.0	0.282	0.0	1.0	29.9	44.6	-31.1	54.4	325	0.917	0.0	1.0	0.293	0.0	1.0	30.2	45.5	-30.6	54.8	326	0.933	0.0	1.0	0.304	0.0	1.0	30.6	46.4	-30.0	55.3	327	0.95	0.0	1.0	0.315	0.0	1.0	30.9	47.2	-29.4	55.7	328	0.967	0.0	1.0	0.326	0.0	1.0	31.3	48.1	-28.8	56.1	329	0.983	0.0	1.0	0.337	0.0	1.0	31.6	49.0	-28.2	56.6	330	M_s	1.0	0.0	1.0	0.322	0.0	1.0	31.1	47.8	-29.1	56.0	328	M_e	1.0	0.0	1.0	0.349	0.0	1.0	32.0	49.9	-27.5	57.0	331	1.0	0.0	0.983	0.332	0.0	1.0	31.5	48.6	-28.5	56.4	329	1.0	0.0	0.983	0.36	0.0	1.0	32.3	50.7	-26.9	57.5	332	1.0	0.0	0.967	0.371	0.0	1.0	32.7	51.6	-26.2	57.9	333	1.0	0.0	0.95	0.386	0.0	1.0	33.0	52.5	-25.5	58.4	334	1.0	0.0	0.933	0.404	0.0	1.0	33.4	53.5	-24.8	59.0	335	1.0	0.0	0.917	0.421	0.0	1.0	33.8	54.4	-24.1	59.6	336	1.0	0.0	0.9	0.438	0.0	1.0	34.2	55.4	-23.4	60.1	337	1.0	0.0	0.883	0.456	0.0	1.0	34.6	56.3	-22.6	60.7	338	1.0	0.0	0.867	0.473	0.0	1.0	35.0	57.2	-21.9	61.3	339	1.0	0.0	0.85	0.491	0.0	1.0	35.4	58.1	-21.1	61.9	340	1.0	0.0	0.833	0.508	0.0	1.0	35.8	59.1	-20.2	62.5	341	1.0	0.0	0.817	0.525	0.0	1.0	36.1	60.0	-19.4	63.1	342	1.0	0.0	0.8	0.542	0.0	1.0	36.4	61.0	-18.5	63.8	343	1.0	0.0	0.783	0.559	0.0	1.0	36.8	61.9	-17.7	64.4	344	1.0	0.0	0.767	0.576	0.0	1.0	37.1	62.9	-16.7	65.1	345	1.0	0.0	0.75	0.539	0.0	1.0	36.4	60.8	-18.7	63.7	342	1.0	0.0	0.75

1-1031531-L0 QE770-72 LAB*la0, YN=0%, XYZnw=3.6, 4.2, 6.1, 85.4, 89.1, 104.8, LAB*nw=24.4, 0.0, 0.0, 95.6, 0.0, 0.0

Output: Offset standard print; separation cmy0*, D65, page 16/33

TUB-test chart QE77; hue code: $H^*_d = G00B_d$
48 step hue circles; $rgb-LabCh^*$ tables

input: $rgb/cmyk \rightarrow rgb_{dd}$
output: 3D-linearization to $cmy0^*_{dd}$

TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)

TUB material: code=rha4ta

TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)

TUB material: code=rha4ta

input: *rgb/cmyk* -> *rgbbd*
output: 3D-linearization to *cmy0**dd

TUB-test chart QE77; hue code: H*d=G00Bd
colors and differences, ΔE*

n/f		H* _{CC} -Fid	rgb_Fid	icr_Fid	hsa_Fid	rgb*_Fid	LabCH*_Fid	cmy0*_sep_Fid		hax*_id	rgb*_id	LabCH*_id	delta	
0/648	R00Y_100_100dd	1.0	0.0	1.0	0.5	370	45.4	70.9	44.8	83.9	44.8	83.9	32.3	32.3
1/657	R13Y_100_100dd	0.125	0.0	1.0	0.5	390	48.6	63.3	49.1	80.2	37.7	0.0	0.0	0.0
2/666	R25Y_100_100dd	0.25	0.0	1.0	0.5	44	53.0	53.4	54.8	76.5	45.7	0.0	0.0	0.0
3/675	R38Y_100_100dd	0.375	0.0	1.0	0.5	52	58.8	41.1	61.7	74.1	56.3	0.0	0.0	0.0
4/684	R50Y_100_100dd	0.5	0.0	1.0	0.5	60	64.9	28.9	68.6	74.5	67.1	0.0	0.0	0.0
5/693	R63Y_100_100dd	0.625	0.0	1.0	0.5	68	72.5	14.8	77.6	79.0	79.1	0.0	0.0	0.0
6/702	R75Y_100_100dd	0.75	0.0	1.0	0.5	76	78.6	4.3	84.7	84.8	87.4	0.0	0.0	0.0
7/711	R88Y_100_100dd	1.0	0.875	0.0	1.0	0.5	83.7	-3.8	90.5	92.0	0.0	0.0	0.0	0.0
8/720	Y00C_100_100dd	1.0	1.0	0.0	0.5	90	87.8	-10.2	95.4	96.0	96.1	0.0	0.0	0.0
9/659	Y13C_100_100dd	0.875	1.0	0.0	0.5	97	88.3	0.0	84.5	89.7	98.6	0.0	0.0	0.0
10/638	Y25C_100_100dd	0.75	1.0	0.0	0.5	104	81.2	-17.0	84.3	86.0	101.4	0.0	0.0	0.0
11/477	Y38C_100_100dd	0.625	1.0	0.0	0.5	112	75.6	-23.6	76.2	79.8	117.0	0.0	0.0	0.0
12/396	Y50C_100_100dd	0.5	1.0	0.0	0.5	120	70.6	-29.7	66.5	72.8	114.0	0.0	0.0	0.0
13/315	Y63C_100_100dd	0.375	1.0	0.0	0.5	128	65.2	-36.4	57.6	68.2	122.3	0.0	0.0	0.0
14/234	Y75C_100_100dd	0.25	1.0	0.0	0.5	136	62.3	-43.3	45.8	66.5	136.5	0.0	0.0	0.0
15/153	Y88C_100_100dd	0.125	1.0	0.0	0.5	143	54.4	-54.7	38.0	66.6	145.1	0.0	0.0	0.0
16/72	G00C_100_100dd	0.0	1.0	0.0	0.5	150	50.0	-65.0	29.6	71.4	155.5	0.0	0.0	0.0
17/73	G13C_100_100dd	0.125	1.0	0.0	0.5	157	50.5	-62.9	22.4	66.8	160.4	0.0	0.0	0.0
18/74	G25C_100_100dd	0.25	1.0	0.0	0.5	164	51.1	-59.5	13.9	61.1	166.8	0.0	0.0	0.0
19/75	G38C_100_100dd	0.375	1.0	0.0	0.5	172	51.9	-54.9	3.7	55.0	176.1	0.0	0.0	0.0
20/76	G50C_100_100dd	0.5	1.0	0.0	0.5	180	52.9	-48.6	-8.0	49.3	189.3	0.0	0.0	0.0
21/77	G63C_100_100dd	0.625	1.0	0.0	0.5	188	54.1	-42.0	-18.8	46.0	204.1	0.0	0.0	0.0
22/78	G75C_100_100dd	0.75	1.0	0.0	0.5	196	55.1	-35.4	-28.4	43.4	218.7	0.0	0.0	0.0
23/79	G88C_100_100dd	1.0	0.875	0.0	1.0	203	55.9	-30.4	-35.0	46.3	225.0	0.0	0.0	0.0
24/80	C00B_100_100dd	0.0	1.0	1.0	0.5	210	56.8	-25.5	-41.5	48.7	238.4	0.0	0.0	0.0
25/81	C13B_100_100dd	0.125	1.0	1.0	0.5	217	54.3	-21.4	-41.4	46.6	242.6	0.0	0.0	0.0
26/62	C25B_100_100dd	0.25	1.0	1.0	0.5	224	50.9	-16.2	-41.2	44.2	248.4	0.0	0.0	0.0
27/63	C38B_100_100dd	0.375	1.0	1.0	0.5	232	46.8	-9.8	-40.9	42.1	256.4	0.0	0.0	0.0
28/44	C50B_100_100dd	0.5	1.0	1.0	0.5	240	41.7	-1.2	-40.6	40.6	268.2	0.0	0.0	0.0
29/35	C63B_100_100dd	0.625	1.0	1.0	0.5	248	37.0	6.6	-40.2	40.8	279.3	0.0	0.0	0.0
30/26	C75B_100_100dd	0.75	1.0	1.0	0.5	256	32.2	15.3	-40.3	43.1	290.8	0.0	0.0	0.0
31/17	C88B_100_100dd	0.125	1.0	1.0	0.5	263	28.4	22.8	-40.3	46.3	299.5	0.0	0.0	0.0
32/8	B00M_100_100dd	0.0	0.0	1.0	0.5	270	25.0	29.5	-40.4	50.0	306.2	0.0	0.0	0.0
33/89	B13M_100_100dd	0.125	0.0	1.0	0.5	277	27.7	35.6	-36.7	51.1	314.1	0.0	0.0	0.0
34/170	B25M_100_100dd	0.25	0.0	1.0	0.5	284	28.7	41.2	-33.1	52.9	321.1	0.0	0.0	0.0
35/251	B38M_100_100dd	0.375	0.0	1.0	0.5	292	32.5	51.2	-26.5	57.7	332.6	0.0	0.0	0.0
36/332	B50M_100_100dd	0.5	0.0	1.0	0.5	300	35.6	58.6	-20.7	62.1	340.5	0.0	0.0	0.0
37/413	B63M_100_100dd	0.625	0.0	1.0	0.5	308	38.3	65.8	-13.7	67.2	348.2	0.0	0.0	0.0
38/494	B75M_100_100dd	0.75	0.0	1.0	0.5	316	42.1	71.6	-8.7	72.1	353.0	0.0	0.0	0.0
39/575	B88M_100_100dd	0.875	0.0	1.0	0.5	323	44.3	75.4	-4.7	75.6	356.3	0.0	0.0	0.0
40/656	M00R_100_100dd	1.0	0.0	1.0	0.5	330	46.1	79.3	-0.2	79.3	359.8	0.0	0.0	0.0
41/655	M13R_100_100dd	1.0	0.0	0.875	1.0	337	45.9	78.3	3.8	78.4	2.8	0.0	0.0	0.0
42/654	M25R_100_100dd	1.0	0.0	0.75	1.0	344	45.9	77.3	8.0	77.7	5.9	0.0	0.0	0.0
43/653	M38R_100_100dd	1.0	0.0	0.625	1.0	352	46.0	75.7	14.4	77.1	10.8	0.0	0.0	0.0
44/652	M50R_100_100dd	1.0	0.0	0.5	1.0	360	45.9	74.2	21.1	77.1	15.9	0.0	0.0	0.0
45/651	M63R_100_100dd	1.0	0.0	0.375	1.0	368	45.8	72.9	28.7	78.4	21.5	0.0	0.0	0.0
46/650	M75R_100_100dd	1.0	0.0	0.25	1.0	376	45.6	72.1	35.3	80.3	26.1	0.0	0.0	0.0
47/649	M88R_100_100dd	1.0	0.0	0.125	1.0	383	45.5	71.4	40.4	82.1	29.5	0.0	0.0	0.0
48/648	R00Y_100_100dd	1.0	0.0	0.0	1.0	0.5	45.4	70.9	44.8	83.9	32.3	0.0	0.0	0.0
49/0	NW_000dd	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50/91	NW_013dd	0.125	0.0	0.0	0.125	360	0.125	0.125	0.125	0.125	0.125	0.0	0.0	0.0
51/182	NW_025dd	0.25	0.0	0.0	0.25	360	0.25	0.25	0.25	0.25	0.25	0.0	0.0	0.0
52/273	NW_038dd	0.375	0.0	0.0	0.375	360	0.375	0.375	0.375	0.375	0.375	0.0	0.0	0.0
53/364	NW_050dd	0.5	0.0	0.0	0.5	360	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
54/455	NW_063dd	0.625	0.0	0.0	0.625	360	0.625	0.625	0.625	0.625	0.625	0.0	0.0	0.0
55/546	NW_075dd	0.75	0.0	0.0	0.75	360	0.75	0.75	0.75	0.75	0.75	0.0	0.0	0.0
56/637	NW_088dd	0.875	0.0	0.0	0.875	360	0.875	0.875	0.875	0.875	0.875	0.0	0.0	0.0
57/728	NW_100dd	1.0	1.0	1.0	1.0	360	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0

Mean color difference of this page:

http://130.149.60.45/~farbmetrik/QE77/QE77L0FP.PDF /.PS; 3D-linearization
F: 3D-linearization QE77/QE77LE30FP.DAT in file (F), page 19/33

TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)

TUB material: code=rha4ta

input: *rgb/cmyk* -> *rgbbd*
output: 3D-linearization to *cmy0**dd

TUB-test chart QE77; hue code: H*d=G00Bd
colors and differences, ΔE^*

n/f	HfC*Fid	rgb_Fid	icr_Fid	hsa_Fid	rgb*Fid	LabCh*Fid	cmy0*_sep_Fid	delta	hsa_dld	rgb*dd	LabCh*dd	delta
0/648	R00Y_100_100dd	1.0	0.0	0.0	1.0	0.0	0.0	0.0	389	1.0	0.0	0.0
1/666	R25Y_100_100dd	0.25	0.0	0.0	0.25	0.0	0.0	0.0	42	0.25	0.0	0.0
2/684	R50Y_100_100dd	0.5	0.0	0.0	0.5	0.0	0.0	0.0	59	0.5	0.0	0.0
3/702	R75Y_100_100dd	0.75	0.0	0.0	0.75	0.0	0.0	0.0	77	0.75	0.0	0.0
4/720	Y00C_100_100dd	1.0	0.0	0.0	1.0	0.0	0.0	0.0	89	1.0	0.0	0.0
5/738	Y25C_100_100dd	0.25	0.0	0.0	0.25	0.0	0.0	0.0	102	0.25	0.0	0.0
6/756	Y50C_100_100dd	0.5	0.0	0.0	0.5	0.0	0.0	0.0	109	0.5	0.0	0.0
7/774	Y75C_100_100dd	0.75	0.0	0.0	0.75	0.0	0.0	0.0	117	0.75	0.0	0.0
8/792	G00B_100_100dd	0.0	1.0	0.0	0.0	0.0	0.0	0.0	149	0.0	1.0	0.0
9/772	G00B_100_100dd	0.0	1.0	0.0	0.0	0.0	0.0	0.0	149	0.0	1.0	0.0
10/76	G25B_100_100dd	0.0	0.5	0.0	0.5	0.0	0.0	0.0	180	0.0	0.5	0.0
11/80	G50B_100_100dd	0.0	0.5	0.0	0.5	0.0	0.0	0.0	210	0.0	0.5	0.0
12/84	G75B_100_100dd	0.0	0.5	0.0	0.5	0.0	0.0	0.0	240	0.0	0.5	0.0
13/8	B00M_100_100dd	0.0	0.0	1.0	0.0	0.0	0.0	0.0	270	0.0	0.0	1.0
14/332	B25R_100_100dd	0.25	0.0	0.0	0.25	0.0	0.0	0.0	300	0.25	0.0	0.0
15/652	B50R_100_100dd	0.5	0.0	0.0	0.5	0.0	0.0	0.0	330	0.5	0.0	0.0
16/652	B75R_100_100dd	0.75	0.0	0.0	0.75	0.0	0.0	0.0	360	0.75	0.0	0.0
17/648	R00Y_100_100dd	1.0	0.0	0.0	1.0	0.0	0.0	0.0	389	1.0	0.0	0.0
18/668	R00Y_100_050dd	1.0	0.5	0.5	1.0	0.5	0.5	0.0	389	1.0	0.5	0.5
19/676	R50Y_100_050dd	0.5	0.5	0.5	0.5	0.5	0.5	0.0	389	0.5	0.5	0.5
20/724	Y00C_100_050dd	1.0	0.5	0.5	1.0	0.5	0.5	0.0	389	1.0	0.5	0.5
21/664	Y25C_100_050dd	0.25	0.5	0.5	0.25	0.5	0.5	0.0	389	0.25	0.5	0.5
22/400	G00B_100_050dd	0.0	1.0	0.5	0.0	1.0	0.5	0.0	389	0.0	1.0	0.5
23/400	G25B_100_050dd	0.0	0.5	0.5	0.0	0.5	0.5	0.0	389	0.0	0.5	0.5
24/368	B00R_100_050dd	0.0	0.0	1.0	0.0	0.0	0.0	0.0	389	0.0	0.0	1.0
25/692	B50R_100_050dd	0.5	0.5	0.5	0.5	0.5	0.5	0.0	389	0.5	0.5	0.5
26/688	R00Y_100_050dd	1.0	0.5	0.5	1.0	0.5	0.5	0.0	389	1.0	0.5	0.5
27/506	R00Y_075_050dd	0.75	0.25	0.25	0.75	0.25	0.25	0.0	389	0.75	0.25	0.25
28/524	R50Y_075_050dd	0.375	0.125	0.125	0.375	0.125	0.125	0.0	389	0.375	0.125	0.125
29/542	Y00C_075_050dd	0.75	0.25	0.25	0.75	0.25	0.25	0.0	389	0.75	0.25	0.25
30/380	Y50C_075_050dd	0.375	0.125	0.125	0.375	0.125	0.125	0.0	389	0.375	0.125	0.125
31/218	G00B_075_050dd	0.0	0.5	0.5	0.0	0.5	0.5	0.0	389	0.0	0.5	0.5
32/222	G50B_075_050dd	0.0	0.25	0.25	0.0	0.25	0.25	0.0	389	0.0	0.25	0.25
33/186	B00R_075_050dd	0.0	0.0	1.0	0.0	0.0	0.0	0.0	389	0.0	0.0	1.0
34/510	B50R_075_050dd	0.5	0.25	0.25	0.5	0.25	0.25	0.0	389	0.5	0.25	0.25
35/506	R00Y_075_050dd	0.75	0.25	0.25	0.75	0.25	0.25	0.0	389	0.75	0.25	0.25
36/324	R00Y_050_050dd	0.5	0.0	0.0	0.5	0.0	0.0	0.0	389	0.5	0.0	0.0
37/342	R50Y_050_050dd	0.25	0.0	0.0	0.25	0.0	0.0	0.0	389	0.25	0.0	0.0
38/360	Y00C_050_050dd	0.75	0.25	0.25	0.75	0.25	0.25	0.0	389	0.75	0.25	0.25
39/198	Y50C_050_050dd	0.375	0.125	0.125	0.375	0.125	0.125	0.0	389	0.375	0.125	0.125
40/36	G00B_050_050dd	0.0	0.5	0.5	0.0	0.5	0.5	0.0	389	0.0	0.5	0.5
41/40	G50B_050_050dd	0.0	0.25	0.25	0.0	0.25	0.25	0.0	389	0.0	0.25	0.25
42/4	B00R_050_050dd	0.0	0.0	1.0	0.0	0.0	0.0	0.0	389	0.0	0.0	1.0
43/328	B50R_050_050dd	0.5	0.25	0.25	0.5	0.25	0.25	0.0	389	0.5	0.25	0.25
44/324	R00Y_050_050dd	0.75	0.25	0.25	0.75	0.25	0.25	0.0	389	0.75	0.25	0.25
45/0	NW_000dd	0.0	0.0	0.0	0.0	0.0	0.0	0.0	360	0.0	0.0	0.0
46/91	NW_013dd	0.125	0.125	0.125	0.125	0.125	0.125	0.0	360	0.125	0.125	0.125
47/182	NW_025dd	0.25	0.25	0.25	0.25	0.25	0.25	0.0	360	0.25	0.25	0.25
48/273	NW_038dd	0.375	0.375	0.375	0.375	0.375	0.375	0.0	360	0.375	0.375	0.375
49/364	NW_050dd	0.5	0.5	0.5	0.5	0.5	0.5	0.0	360	0.5	0.5	0.5
50/455	NW_065dd	0.625	0.625	0.625	0.625	0.625	0.625	0.0	360	0.625	0.625	0.625
51/66	NW_080dd	0.75	0.75	0.75	0.75	0.75	0.75	0.0	360	0.75	0.75	0.75
52/66	NW_088dd	0.875	0.875	0.875	0.875	0.875	0.875	0.0	360	0.875	0.875	0.875
53/728	NW_100dd	1.0	1.0	1.0	1.0	1.0	1.0	0.0	360	1.0	1.0	1.0

see similar files: <http://130.149.60.45/~farbmetrik/QE77/QE77L0FP.PDF> /.PS; 3D-linearization
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>



	RGB_Fid	ICt_Fid	hsv_Fid	rgb_Fid	LabCh_Fid	rgb_Fid	cmv1*_sep_Fid	hsv_Fid	rgb_Fid	LabCh_Fid
3224	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3225	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3226	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3227	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3228	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3229	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3230	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3231	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3232	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3233	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3234	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3235	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3236	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3237	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3238	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3239	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3240	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3241	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3242	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3243	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3244	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3245	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3246	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3247	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3248	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3249	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3250	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3251	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3252	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3253	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3254	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3255	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3256	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3257	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3258	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3259	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3260	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3261	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3262	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3263	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3264	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3265	0.5	0.0	0.5	0.5	0.0	0.0	32.3	0.0	0.0	0.0
3266	0.5	0.0	0.5	0.5	0.0</					

Mean color difference of this page:

input: *rgb/cmyk* $\rightarrow$ *rgbdd*.

output: 3D-linearization to $cm\gamma 0^*$ data

OE770-7N Page 24/33-E

TUB-test chart QE77; hue code: H_d^{*}=G00B_d

see similar files: <http://130.149.60.45/~farbmatrik/QE77/QE77.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>



TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS TUB material: code=rha4ta application for measurement of offset print output, separation cmy0* (CMY0)

http://130.149.60.45/~farbmatrik/QE77/QE77L0FP.PDF /.PS; 3D-linearization F: 3D-linearization QE77/QE77LE30FP.DAT in file (F), page 28/33

n	HC*Fid	rgb_Fid	icr_Fid	hsa_Fid	rgb*Fid	LabCh*Fid	cmyk*_sep,Fid	mean	delta
648	R00Y_100_100ad	1.0	0.0	0.0	0.0	45.4	70.9	32.3	0.0
649	R38Y_100_100ad	1.0	0.0	0.0	0.0	45.5	71.4	40.4	83.9
650	R16Y_100_100ad	1.0	0.0	0.0	0.0	45.6	72.1	35.3	82.1
651	R23Y_100_100ad	1.0	0.0	0.0	0.0	45.8	72.9	28.7	80.3
652	R00Y_100_100ad	1.0	0.0	0.0	0.0	45.9	74.2	21.1	78.4
653	B68R_100_100ad	1.0	0.0	0.0	0.0	46.0	75.7	14.4	77.1
654	B61R_100_100ad	1.0	0.0	0.0	0.0	46.3	77.3	8.0	77.7
655	B55R_100_100ad	1.0	0.0	0.0	0.0	46.5	78.3	3.8	77.4
656	B50R_100_100ad	1.0	0.0	0.0	0.0	46.6	79.3	-0.2	79.3
657	R11Y_100_100ad	1.0	0.0	0.0	0.0	46.7	80.2	37.7	359.8
658	R00Y_100_097ad	1.0	0.875	0.562	390	1.0	0.0	0.0	0.0
659	R38Y_100_097ad	1.0	0.875	0.562	382	1.0	0.0	0.0	0.0
660	R16Y_100_097ad	1.0	0.875	0.562	374	1.0	0.0	0.0	0.0
661	R23Y_100_097ad	1.0	0.875	0.562	365	1.0	0.0	0.0	0.0
662	B70R_100_097ad	1.0	0.875	0.562	355	1.0	0.0	0.0	0.0
663	B63R_100_097ad	1.0	0.875	0.562	346	1.0	0.0	0.0	0.0
664	B56R_100_097ad	1.0	0.875	0.562	338	1.0	0.0	0.0	0.0
665	B50R_100_097ad	1.0	0.875	0.562	330	1.0	0.0	0.0	0.0
666	R23Y_100_100ad	1.0	0.0	0.0	0.0	46.8	81.1	61.7	56.3
667	R13Y_100_100ad	1.0	0.0	0.0	0.0	46.9	82.1	49.4	66.2
668	R00Y_100_100ad	1.0	0.0	0.0	0.0	47.0	83.1	38.0	59.3
669	R38Y_100_100ad	1.0	0.0	0.0	0.0	47.1	84.1	28.0	52.4
670	R16Y_100_100ad	1.0	0.0	0.0	0.0	47.2	85.1	19.4	48.8
671	R23Y_100_100ad	1.0	0.0	0.0	0.0	47.3	86.1	11.4	46.6
672	B68R_100_100ad	1.0	0.0	0.0	0.0	47.4	87.1	4.6	45.9
673	B61R_100_100ad	1.0	0.0	0.0	0.0	47.5	88.1	-0.1	49.5
674	B55R_100_100ad	1.0	0.0	0.0	0.0	47.6	89.1	-0.1	49.5
675	B50R_100_100ad	1.0	0.0	0.0	0.0	47.7	90.1	359.8	0.0
676	R26Y_100_100ad	1.0	0.875	0.562	42	1.0	0.0	0.0	0.0
677	R15Y_100_100ad	1.0	0.875	0.562	39	1.0	0.0	0.0	0.0
678	R00Y_100_100ad	1.0	0.875	0.562	30	1.0	0.0	0.0	0.0
679	R31Y_100_100ad	1.0	0.625	0.687	367	1.0	0.0	0.0	0.0
680	R11Y_100_100ad	1.0	0.625	0.687	369	1.0	0.0	0.0	0.0
681	B69R_100_100ad	1.0	0.625	0.687	353	1.0	0.0	0.0	0.0
682	B59R_100_100ad	1.0	0.625	0.687	341	1.0	0.0	0.0	0.0
683	B50Y_100_100ad	1.0	0.625	0.687	330	1.0	0.0	0.0	0.0
684	R50Y_100_100ad	1.0	0.0	0.0	0.0	47.8	91.1	61.7	56.3
685	R41Y_100_100ad	1.0	0.0	0.0	0.0	47.9	92.1	49.4	66.2
686	R31Y_100_100ad	1.0	0.0	0.0	0.0	48.0	93.1	38.0	59.3
687	R18Y_100_100ad	1.0	0.0	0.0	0.0	48.1	94.1	28.0	52.4
688	R00Y_100_100ad	1.0	0.0	0.0	0.0	48.2	95.1	17.4	48.8
689	R26Y_100_100ad	1.0	0.0	0.0	0.0	48.3	96.1	9.5	48.1
690	R00Y_100_100ad	1.0	0.0	0.0	0.0	48.4	97.1	4.6	45.9
691	B61R_100_100ad	1.0	0.0	0.0	0.0	48.5	98.1	-0.1	49.5
692	B50R_100_100ad	1.0	0.0	0.0	0.0	48.6	99.1	-0.1	49.5
693	R63Y_100_100ad	1.0	0.0	0.0	0.0	48.7	100.1	359.8	0.0
694	R38Y_100_100ad	1.0	0.0	0.0	0.0	48.8	101.1	28.0	52.4
695	R16Y_100_100ad	1.0	0.0	0.0	0.0	48.9	102.1	19.4	48.8
696	R23Y_100_100ad	1.0	0.0	0.0	0.0	49.0	103.1	11.4	46.6
697	B68R_100_100ad	1.0	0.0	0.0	0.0	49.1	104.1	4.6	45.9
698	R00Y_100_100ad	1.0	0.0	0.0	0.0	49.2	105.1	-0.1	49.5
699	R38Y_100_100ad	1.0	0.0	0.0	0.0	49.3	106.1	-0.1	49.5
700	B68R_100_100ad	1.0	0.0	0.0	0.0	49.4	107.1	359.8	0.0
701	B50R_100_100ad	1.0	0.0	0.0	0.0	49.5	108.1	28.0	52.4
702	R76Y_100_100ad	1.0	0.0	0.0	0.0	49.6	109.1	19.4	48.8
703	R31Y_100_100ad	1.0	0.0	0.0	0.0	49.7	110.1	11.4	46.6
704	R00Y_100_100ad	1.0	0.0	0.0	0.0	49.8	111.1	4.6	45.9
705	B68R_100_100ad	1.0	0.0	0.0	0.0	49.9	112.1	-0.1	49.5
706	B50R_100_100ad	1.0	0.0	0.0	0.0	50.0	113.1	-0.1	49.5
707	R31Y_100_100ad	1.0	0.0	0.0	0.0	50.1	114.1	359.8	0.0
708	R00Y_100_100ad	1.0	0.0	0.0	0.0	50.2	115.1	28.0	52.4
709	B50R_100_100ad	1.0	0.0	0.0	0.0	50.3	116.1	19.4	48.8
710	R88Y_100_100ad	1.0	0.0	0.0	0.0	50.4	117.1	11.4	46.6
711	R85Y_100_100ad	1.0	0.0	0.0	0.0	50.5	118.1	4.6	45.9
712	R82Y_100_100ad	1.0	0.0	0.0	0.0	50.6	119.1	-0.1	49.5
713	R80Y_100_100ad	1.0	0.0	0.0	0.0	50.7	120.1	-0.1	49.5
714	R76Y_100_100ad	1.0	0.0	0.0	0.0	50.8	121.1	359.8	0.0
715	R68Y_100_100ad	1.0	0.0	0.0	0.0	50.9	122.1	28.0	52.4
716	R60Y_100_100ad	1.0	0.0	0.0	0.0	51.0	123.1	19.4	48.8
717	R52Y_100_100ad	1.0	0.0	0.0	0.0	51.1	124.1	11.4	46.6
718	R44Y_100_100ad	1.0	0.0	0.0	0.0	51.2	125.1	4.6	45.9
719	R36Y_100_100ad	1.0	0.0	0.0	0.0	51.3	126.1	-0.1	49.5
720	R28Y_100_100ad	1.0	0.0	0.0	0.0	51.4	127.1	-0.1	49.5
721	R20Y_100_100ad	1.0	0.0	0.0	0.0	51.5	128.1	359.8	0.0
722	R12Y_100_100ad	1.0	0.0	0.0	0.0	51.6	129.1	28.0	52.4
723	R04Y_100_100ad	1.0	0.0	0.0	0.0	51.7	130.1	19.4	48.8
724	Y00G_100_100ad	1.0	0.0	0.0	0.0	51.8	131.1	11.4	46.6
725	Y06G_100_100ad	1.0	0.0	0.0	0.0	51.9	132.1	4.6	45.9
726	Y12G_100_100ad	1.0	0.0	0.0	0.0	52.0	133.1	-0.1	49.5
727	Y18G_100_100ad	1.0	0.0	0.0	0.0	52.1	134.1	-0.1	49.5
728	NW_100ad	1.0	0.0	0.0	0.0	52.2	135.1	359.8	0.0

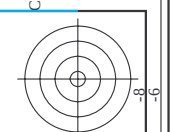
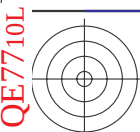
QE770-7N; Page 28/33-F

TUB-test chart QE77; hue code: H*d=G00Bd colors and differences, ΔE*

1-1032731-F0

input: rgb/cmyk -> rgbdd output: 3D-linearization to cmy0*dd

mean color difference of this page: 0.0



n	HVC-Fid	rgb-Fid	icr-Fid	hsa-Fid	rgb-Hid	LabCH-Fid	cmyk-sep-Fid	mean	delta
891	NW_1000ad	1.0	1.0	1.0	1.0	95.6	0.0	0.0	0.0
892	B50R_100.012ad	1.0	0.875	1.0	0.875	95.6	0.0	0.0	0.0
893	B50R_100.025ad	1.0	0.75	1.0	0.75	95.6	0.0	0.0	0.0
894	B50R_100.037ad	1.0	0.625	1.0	0.625	95.6	0.0	0.0	0.0
895	B50R_100.050ad	1.0	0.5	1.0	0.5	95.6	0.0	0.0	0.0
896	B50R_100.062ad	1.0	0.375	1.0	0.375	95.6	0.0	0.0	0.0
897	B50R_100.075ad	1.0	0.25	1.0	0.25	95.6	0.0	0.0	0.0
898	B50R_100.087ad	1.0	0.125	1.0	0.125	95.6	0.0	0.0	0.0
899	B50R_100.100ad	1.0	0.0	1.0	0.0	95.6	0.0	0.0	0.0
900	GOE_100.012ad	0.875	1.0	0.875	1.0	95.6	0.0	0.0	0.0
901	NW_087ad	0.875	0.875	0.875	0.875	95.6	0.0	0.0	0.0
902	B50R_087.012ad	0.875	0.75	0.875	0.75	95.6	0.0	0.0	0.0
903	B50R_087.025ad	0.875	0.625	0.875	0.625	95.6	0.0	0.0	0.0
904	B50R_087.037ad	0.875	0.5	0.875	0.5	95.6	0.0	0.0	0.0
905	B50R_087.050ad	0.875	0.375	0.875	0.375	95.6	0.0	0.0	0.0
906	B50R_087.062ad	0.875	0.25	0.875	0.25	95.6	0.0	0.0	0.0
907	B50R_087.075ad	0.875	0.125	0.875	0.125	95.6	0.0	0.0	0.0
908	B50R_087.100ad	0.875	0.0	0.875	0.0	95.6	0.0	0.0	0.0
909	GOE_087.012ad	0.75	1.0	0.75	1.0	95.6	0.0	0.0	0.0
910	GOE_087.025ad	0.75	0.875	0.875	0.875	95.6	0.0	0.0	0.0
911	NW_075ad	0.75	0.75	0.75	0.75	95.6	0.0	0.0	0.0
912	B50R_075.012ad	0.75	0.625	0.75	0.625	95.6	0.0	0.0	0.0
913	B50R_075.025ad	0.75	0.5	0.75	0.5	95.6	0.0	0.0	0.0
914	B50R_075.037ad	0.75	0.375	0.75	0.375	95.6	0.0	0.0	0.0
915	B50R_075.050ad	0.75	0.25	0.75	0.25	95.6	0.0	0.0	0.0
916	B50R_075.062ad	0.75	0.125	0.75	0.125	95.6	0.0	0.0	0.0
917	B50R_075.075ad	0.75	0.0	0.75	0.0	95.6	0.0	0.0	0.0
918	GOE_075.012ad	0.625	1.0	0.625	1.0	95.6	0.0	0.0	0.0
919	GOE_075.025ad	0.625	0.875	0.625	0.875	95.6	0.0	0.0	0.0
920	GOE_075.037ad	0.625	0.75	0.625	0.75	95.6	0.0	0.0	0.0
921	NW_062ad	0.625	0.625	0.625	0.625	95.6	0.0	0.0	0.0
922	B50R_062.012ad	0.625	0.5	0.625	0.5	95.6	0.0	0.0	0.0
923	B50R_062.025ad	0.625	0.375	0.625	0.375	95.6	0.0	0.0	0.0
924	B50R_062.037ad	0.625	0.25	0.625	0.25	95.6	0.0	0.0	0.0
925	B50R_062.050ad	0.625	0.125	0.625	0.125	95.6	0.0	0.0	0.0
926	B50R_062.062ad	0.625	0.0	0.625	0.0	95.6	0.0	0.0	0.0
927	GOE_062.012ad	0.5	1.0	0.5	1.0	95.6	0.0	0.0	0.0
928	GOE_062.025ad	0.5	0.875	0.875	0.875	95.6	0.0	0.0	0.0
929	GOE_062.037ad	0.5	0.75	0.875	0.75	95.6	0.0	0.0	0.0
930	GOE_062.050ad	0.5	0.625	0.875	0.625	95.6	0.0	0.0	0.0
931	NW_050ad	0.5	0.5	0.5	0.5	95.6	0.0	0.0	0.0
932	B50R_050.012ad	0.5	0.375	0.5	0.375	95.6	0.0	0.0	0.0
933	B50R_050.025ad	0.5	0.25	0.5	0.25	95.6	0.0	0.0	0.0
934	B50R_050.037ad	0.5	0.125	0.5	0.125	95.6	0.0	0.0	0.0
935	B50R_050.050ad	0.5	0.0	0.5	0.0	95.6	0.0	0.0	0.0
936	GOE_050.012ad	0.375	1.0	0.375	1.0	95.6	0.0	0.0	0.0
937	GOE_050.025ad	0.375	0.875	0.875	0.875	95.6	0.0	0.0	0.0
938	GOE_050.037ad	0.375	0.75	0.875	0.75	95.6	0.0	0.0	0.0
939	GOE_050.050ad	0.375	0.625	0.875	0.625	95.6	0.0	0.0	0.0
940	NW_037ad	0.375	0.5	0.375	0.5	95.6	0.0	0.0	0.0
941	B50R_037.012ad	0.375	0.375	0.375	0.375	95.6	0.0	0.0	0.0
942	B50R_037.025ad	0.375	0.25	0.375	0.25	95.6	0.0	0.0	0.0
943	B50R_037.037ad	0.375	0.125	0.375	0.125	95.6	0.0	0.0	0.0
944	B50R_037.050ad	0.375	0.0	0.375	0.0	95.6	0.0	0.0	0.0
945	GOE_037.012ad	0.25	1.0	0.25	1.0	95.6	0.0	0.0	0.0
946	GOE_037.025ad	0.25	0.875	0.875	0.875	95.6	0.0	0.0	0.0
947	GOE_037.037ad	0.25	0.75	0.875	0.75	95.6	0.0	0.0	0.0
948	GOE_037.050ad	0.25	0.625	0.875	0.625	95.6	0.0	0.0	0.0
949	NW_025ad	0.25	0.5	0.25	0.5	95.6	0.0	0.0	0.0
950	GOE_025.012ad	0.25	0.375	0.375	0.375	95.6	0.0	0.0	0.0
951	NW_012ad	0.25	0.25	0.25	0.25	95.6	0.0	0.0	0.0
952	B50R_025.012ad	0.25	0.125	0.25	0.125	95.6	0.0	0.0	0.0
953	B50R_025.025ad	0.25	0.0	0.25	0.0	95.6	0.0	0.0	0.0
954	GOE_025.012ad	0.125	1.0	0.125	1.0	95.6	0.0	0.0	0.0
955	GOE_025.025ad	0.125	0.875	0.875	0.875	95.6	0.0	0.0	0.0
956	GOE_025.037ad	0.125	0.75	0.875	0.75	95.6	0.0	0.0	0.0
957	GOE_025.050ad	0.125	0.625	0.875	0.625	95.6	0.0	0.0	0.0
958	GOE_025.062ad	0.125	0.5	0.875	0.5	95.6	0.0	0.0	0.0
959	GOE_025.075ad	0.125	0.375	0.875	0.375	95.6	0.0	0.0	0.0
960	GOE_025.100ad	0.125	0.25	0.875	0.25	95.6	0.0	0.0	0.0
961	NW_012ad	0.125	0.125	0.125	0.125	95.6	0.0	0.0	0.0
962	B50R_012.012ad	0.125	0.0	0.125	0.0	95.6	0.0	0.0	0.0
963	GOE_012.012ad	0.0	1.0	0.0	1.0	95.6	0.0	0.0	0.0
964	GOE_012.025ad	0.0	0.875	0.875	0.875	95.6	0.0	0.0	0.0
965	GOE_012.037ad	0.0	0.75	0.875	0.75	95.6	0.0	0.0	0.0
966	GOE_012.050ad	0.0	0.625	0.875	0.625	95.6	0.0	0.0	0.0
967	GOE_012.062ad	0.0	0.5	0.875	0.5	95.6	0.0	0.0	0.0
968	GOE_012.075ad	0.0	0.375	0.875	0.375	95.6	0.0	0.0	0.0
969	GOE_012.100ad	0.0	0.25	0.875	0.25	95.6	0.0	0.0	0.0
970	GOE_012.012ad	0.0	0.125	0.125	0.125	95.6	0.0	0.0	0.0
971	NW_000ad	0.0	0.0	0.0	0.0	95.6	0.0	0.0	0.0

Mean color difference of this page:

input: *rgb/cmyk* -> *rgbd*
output: 3D-linearization to *cmy0**ad

TUB-test chart QE77; hue code: H*d=G00Bd
colors and differences, ΔE*

TUB registration: 20130201-QE77/QE77L0FP.PDF /.PS TUB material: code=rha4ta
application for measurement of offset print output, separation cmy0* (CMY0)

see similar files: <http://130.149.60.45/~farbmetrik/QE77/QE77.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB-test chart QE77; hue code: H*d=G00Bd
colors and differences, ΔE^*

input: *rgb/cmyk* -> *rgb*
output: 3D-linearization to *cmy0**

n	HVC*Fid	rgb_Fid	lcr_Fid	hsa_Fid	rgb*Fid	LabCH*Fid	cmy0*sep_Fid	cmyn*sep_Fid	hsv*dd	rgb*dd	LabCH*dd	delta
1053	NW_086dd	0.866 0.866 0.866	0.866 0.866 0.866	0.866 0.866 0.866	0.866 0.866 0.866	86.6 0.0 0.0	0.173 0.108 0.099	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1054	NW_093dd	0.933 0.933 0.933	0.933 0.933 0.933	0.933 0.933 0.933	0.933 0.933 0.933	90.8 0.0 0.0	0.09 0.054 0.05	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1055	NW_100dd	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1056	NW_006dd	0.066 0.066 0.066	0.066 0.066 0.066	0.066 0.066 0.066	0.066 0.066 0.066	29.0 0.0 0.0	1.0 1.0 1.0	0.935 0.825 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1057	NW_003dd	0.133 0.133 0.133	0.133 0.133 0.133	0.133 0.133 0.133	0.133 0.133 0.133	33.8 0.0 0.0	0.879 0.763 0.725	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1058	NW_013dd	0.2 0.2 0.2	0.2 0.2 0.2	0.2 0.2 0.2	0.2 0.2 0.2	38.6 0.0 0.0	0.799 0.661 0.614	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1059	NW_026dd	0.266 0.266 0.266	0.266 0.266 0.266	0.266 0.266 0.266	0.266 0.266 0.266	43.3 0.0 0.0	0.731 0.571 0.537	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1060	NW_033dd	0.333 0.333 0.333	0.333 0.333 0.333	0.333 0.333 0.333	0.333 0.333 0.333	48.1 0.0 0.0	0.682 0.507 0.485	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1061	NW_040dd	0.4 0.4 0.4	0.4 0.4 0.4	0.4 0.4 0.4	0.4 0.4 0.4	52.8 0.0 0.0	0.636 0.454 0.433	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1062	NW_046dd	0.466 0.466 0.466	0.466 0.466 0.466	0.466 0.466 0.466	0.466 0.466 0.466	57.5 0.0 0.0	0.574 0.404 0.381	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1063	NW_053dd	0.533 0.533 0.533	0.533 0.533 0.533	0.533 0.533 0.533	0.533 0.533 0.533	62.3 0.0 0.0	0.509 0.354 0.33	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1064	NW_053dd	0.533 0.533 0.533	0.533 0.533 0.533	0.533 0.533 0.533	0.533 0.533 0.533	62.3 0.0 0.0	0.442 0.285 0.278	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1065	NW_060dd	0.6 0.6 0.6	0.6 0.6 0.6	0.6 0.6 0.6	0.6 0.6 0.6	67.1 0.0 0.0	0.377 0.228 0.228	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1066	NW_066dd	0.666 0.666 0.666	0.666 0.666 0.666	0.666 0.666 0.666	0.666 0.666 0.666	71.8 0.0 0.0	0.314 0.191 0.186	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1067	NW_073dd	0.734 0.734 0.734	0.734 0.734 0.734	0.734 0.734 0.734	0.734 0.734 0.734	76.6 0.0 0.0	0.252 0.153 0.146	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1068	NW_080dd	0.8 0.8 0.8	0.8 0.8 0.8	0.8 0.8 0.8	0.8 0.8 0.8	81.3 0.0 0.0	0.173 0.108 0.099	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1069	NW_086dd	0.866 0.866 0.866	0.866 0.866 0.866	0.866 0.866 0.866	0.866 0.866 0.866	86.0 0.0 0.0	0.09 0.054 0.05	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1070	NW_093dd	0.933 0.933 0.933	0.933 0.933 0.933	0.933 0.933 0.933	0.933 0.933 0.933	90.8 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1071	NW_100dd	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1072	NW_000dd	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1073	ROY_100_100dd	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	360 1.0 1.0	1.0 1.0 1.0	95.6 0.0 0.0	0.0
1074	G50B_100_100dd	0.0 1.0 1.0	0.0 1.0 1.0	0.0 1.0 1.0	0.0 1.0 1.0	45.4 70.9 44.8	0.0 0.0 0.0	0.0 0.0 0.0	389 1.0 0.0	0.0 0.0 0.0	45.4 70.9 44.8	83.9
1075	G50B_100_100dd	0.0 1.0 1.0	0.0 1.0 1.0	0.0 1.0 1.0	0.0 1.0 1.0	45.4 70.9 44.8	0.0 0.0 0.0	0.0 0.0 0.0	210 1.0 0.0	0.0 0.0 0.0	45.4 70.9 44.8	32.3
1076	Y06B_100_100dd	1.0 0.0 0.0	1.0 0.0 0.0	1.0 0.0 0.0	1.0 0.0 0.0	57.8 95.4 25.5	0.0 0.0 0.0	0.0 0.0 0.0	89 1.0 0.0	0.0 0.0 0.0	57.8 95.4 25.5	96.1
1077	B06B_100_100dd	0.0 1.0 0.0	0.0 1.0 0.0	0.0 1.0 0.0	0.0 1.0 0.0	25.0 40.4 29.5	0.999 0.0 0.0	0.0 0.0 0.0	270 1.0 0.0	0.0 0.0 0.0	25.0 40.4 29.5	96.0
1078	B06B_100_100dd	0.0 1.0 0.0	0.0 1.0 0.0	0.0 1.0 0.0	0.0 1.0 0.0	25.0 40.4 29.5	0.0 0.0 0.0	0.0 0.0 0.0	150 1.0 0.0	0.0 0.0 0.0	25.0 40.4 29.5	365.2
1079	B50B_100_100dd	1.0 0.0 0.0	1.0 0.0 0.0	1.0 0.0 0.0	1.0 0.0 0.0	50.0 79.3 46.1	0.0 0.0 0.0	0.0 0.0 0.0	330 1.0 0.0	0.0 0.0 0.0	50.0 79.3 46.1	359.8