

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

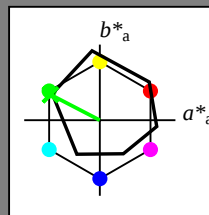
Data for any device (d) or elementary (e) colour:

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

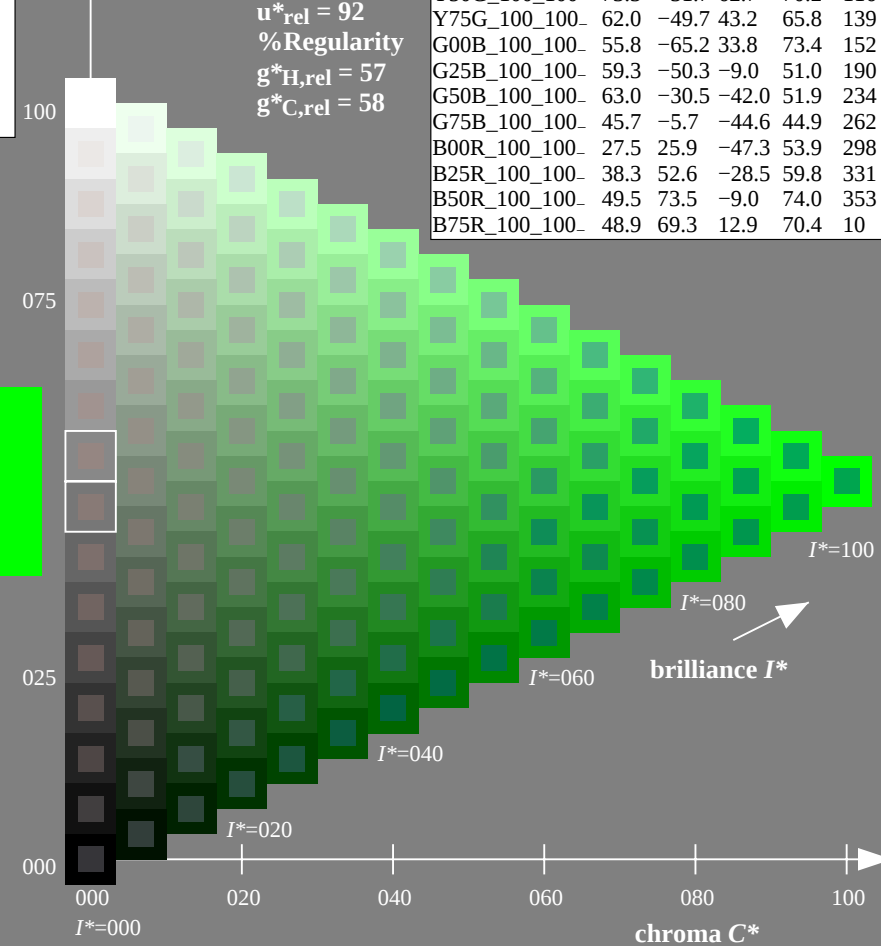
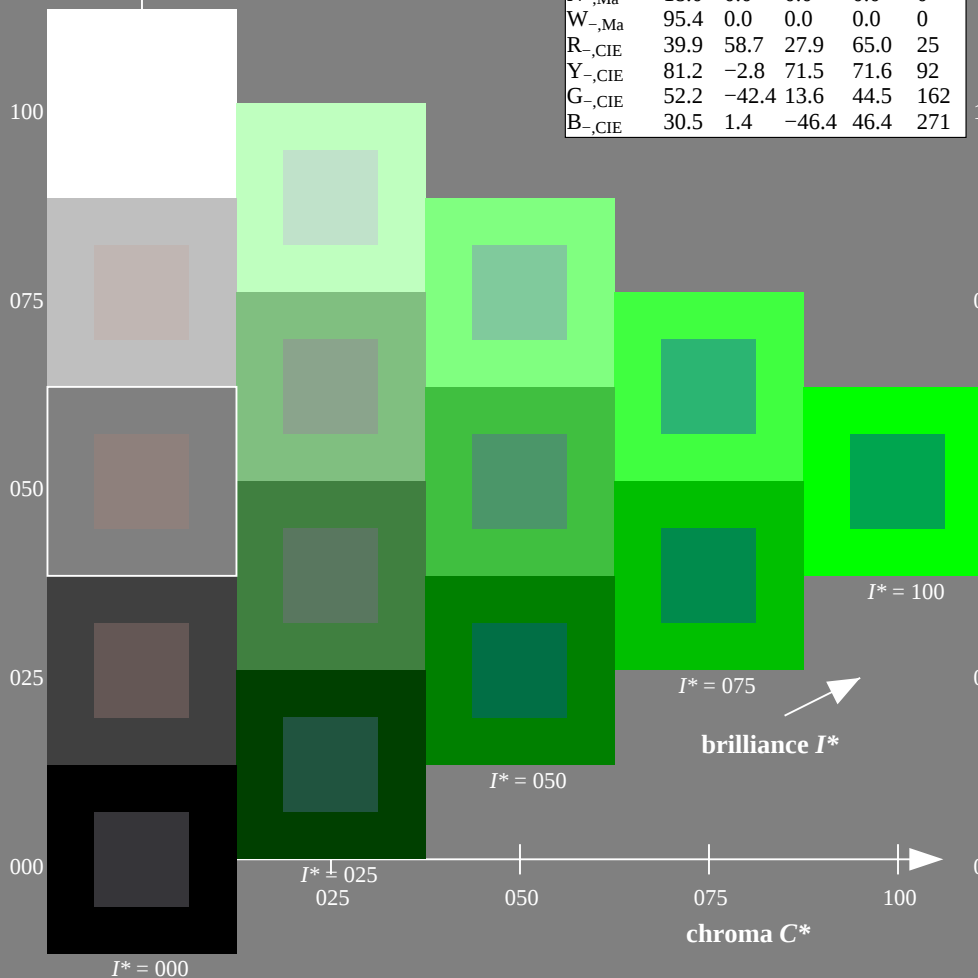
$u^*_{rel} = 92$

% 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 $h_{ab,a,rel} = h_{ab}/360 = 155/360 = 0.43$

$H^*_d = G00B_d$

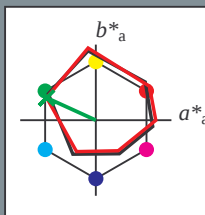
Data for any device (d) or elementary (e) colour:

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

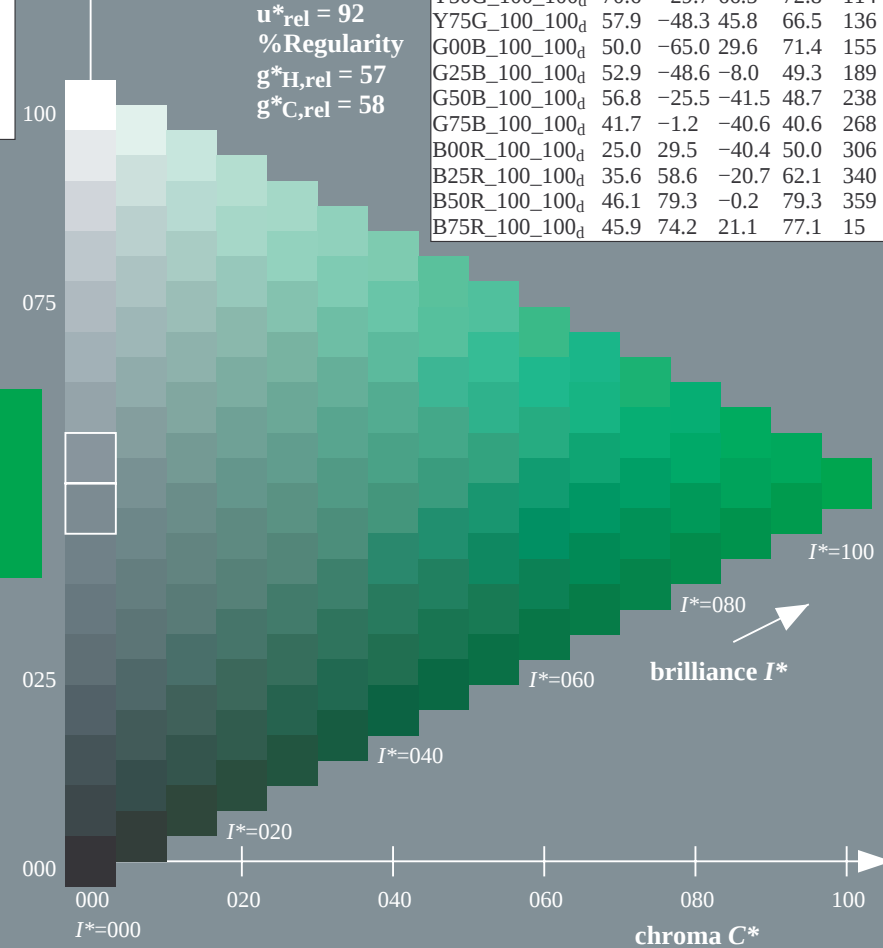
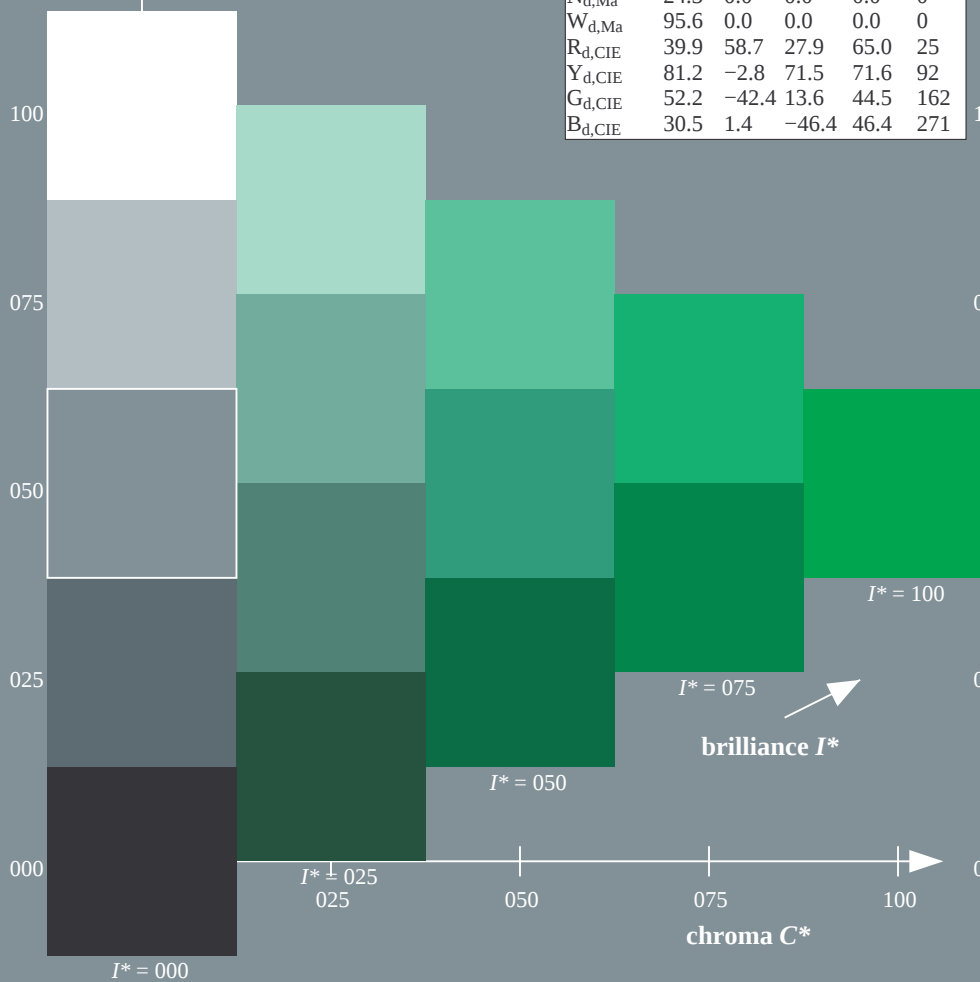
$u^*_{rel} = 92$

% 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/QE77L0FA.TXT /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 $h_{ab,a,rel} = h_{ab}/360 = 155/360 = 0.43$

$H^*_d = G00B_d$

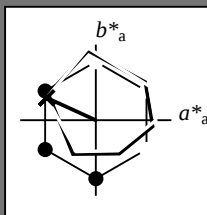
Data for any device (d) or elementary (e) colour:

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
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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_100d

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

0.0 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

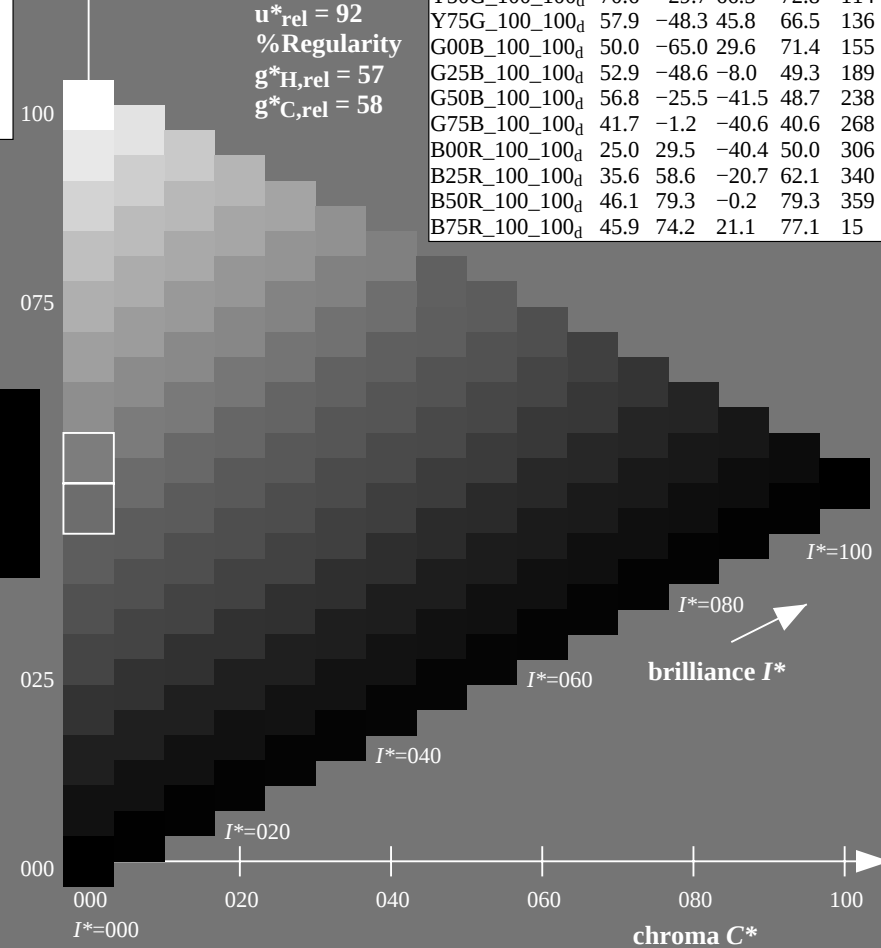
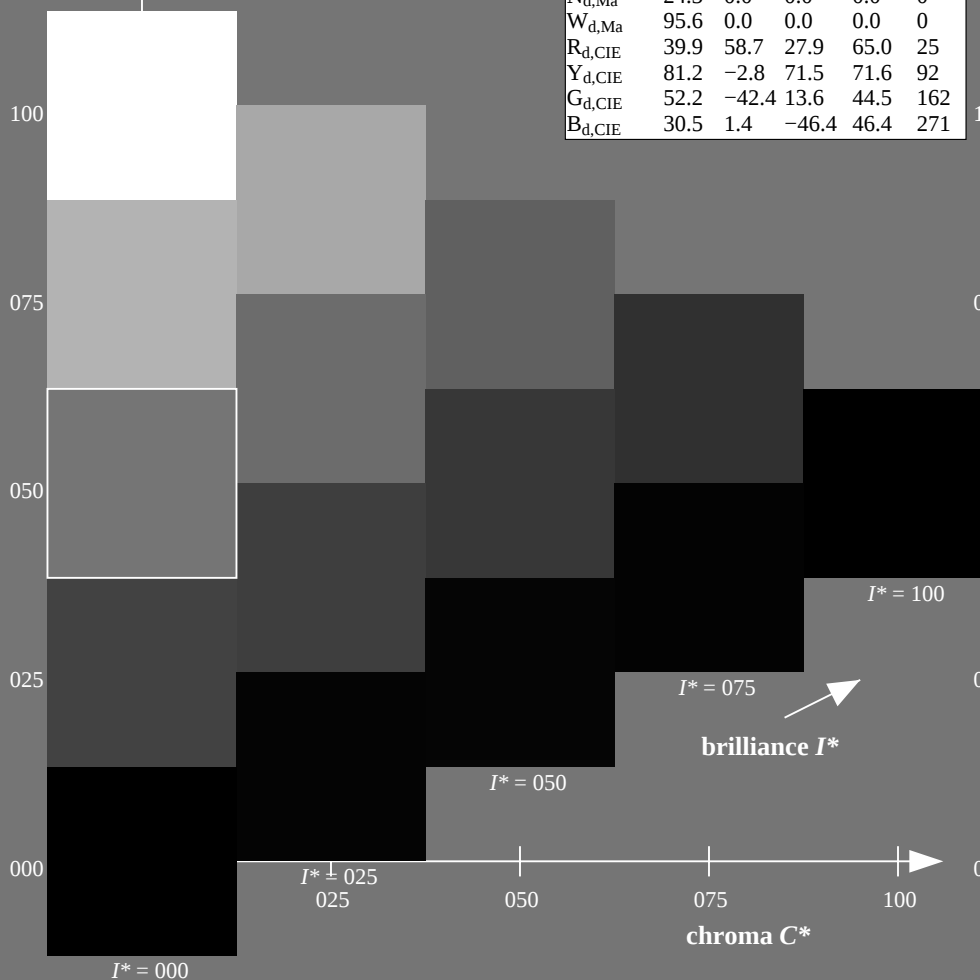
$u^*_{rel} = 92$

% 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_100d	45.4	70.9	44.8	83.9	32
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
G00B_100_100d	50.0	-65.0	29.6	71.4	155
G25B_100_100d	52.9	-48.6	-8.0	49.3	189
G50B_100_100d	56.8	-25.5	-41.5	48.7	238
G75B_100_100d	41.7	-1.2	-40.6	40.6	268
B00R_100_100d	25.0	29.5	-40.4	50.0	306
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



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 $cmY0^*_{dd}$

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

$H^*_d = G00B_d$

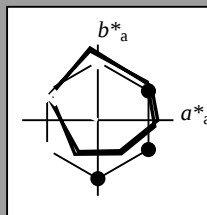
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = G00B_d$

triangle lightness T^*



ORS20a; adapted (a) CIELAB data					
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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_100d

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

0.0 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

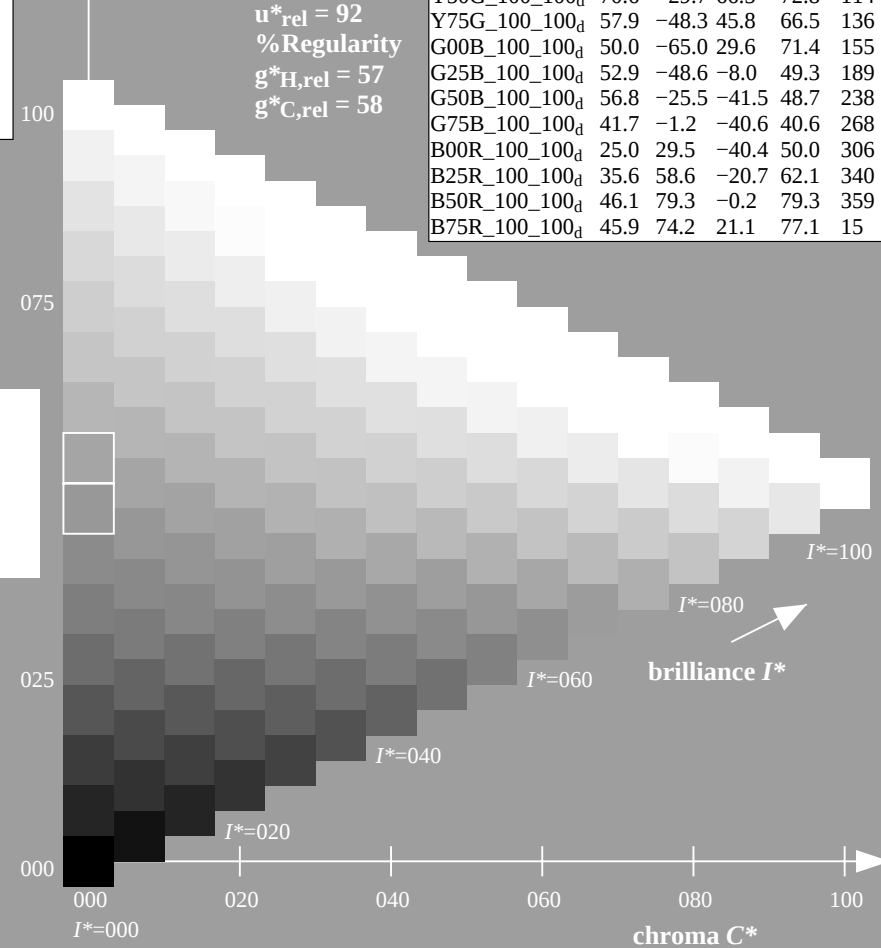
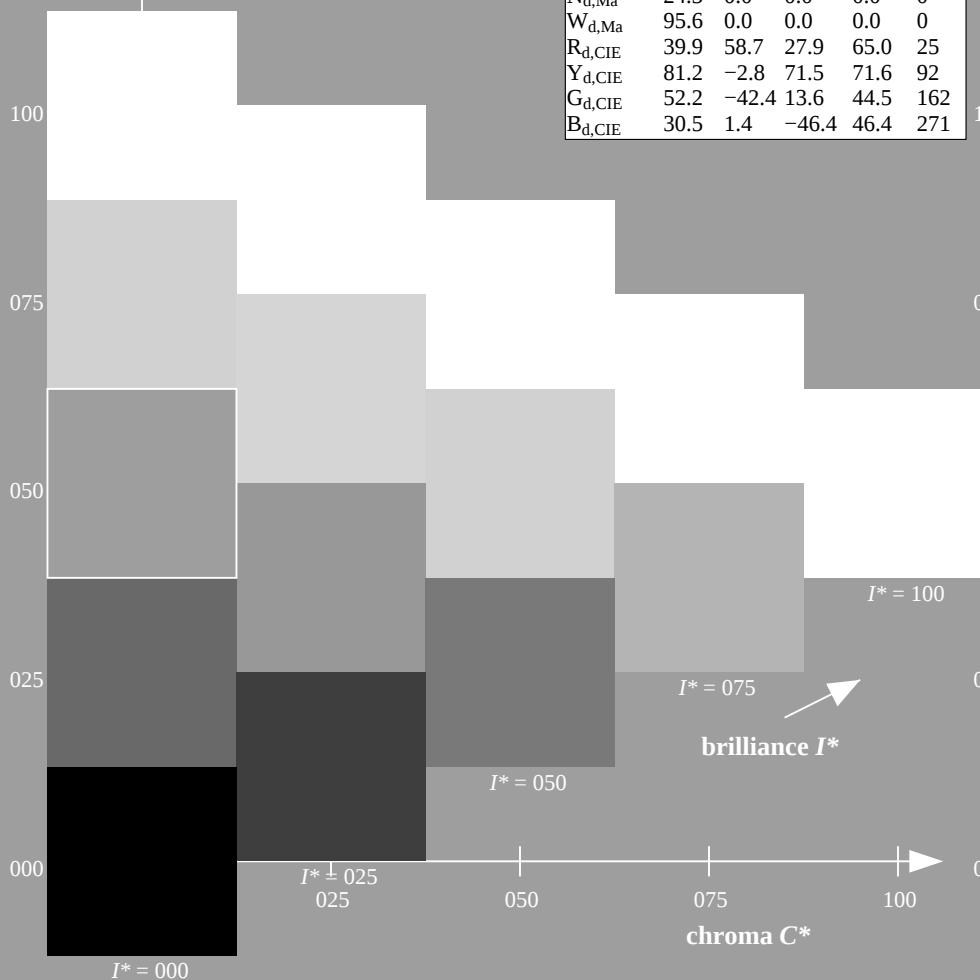
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$R25Y_{100_100d}$	53.0	53.4	54.8	76.5	45
$R50Y_{100_100d}$	64.9	28.9	68.6	74.5	67
$R75Y_{100_100d}$	78.6	4.3	84.7	84.8	87
$Y00G_{100_100d}$	87.8	-10.2	95.4	96.0	96
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$B25R_{100_100d}$	35.6	58.6	-20.7	62.1	340
$B50R_{100_100d}$	46.1	79.3	-0.2	79.3	359
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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 $cmY0^*_{dd}$

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

$H^*_d = G00B_d$

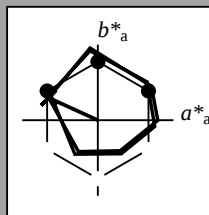
Data for any device (d) or elementary (e) colour:

HIC^*_d

hue text for the colours of this page:

$H^*_d = G00B_d$

triangle lightness T^*



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$R_{d,CIE}$	39.9	58.7	27.9	65.0	25
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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

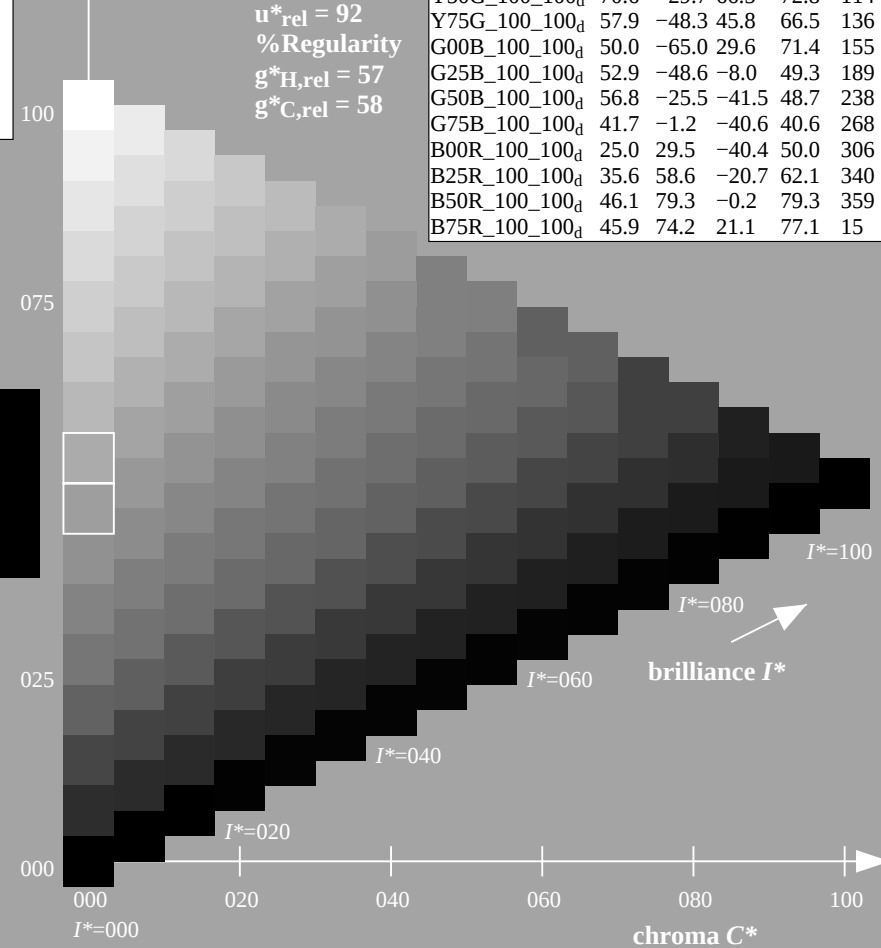
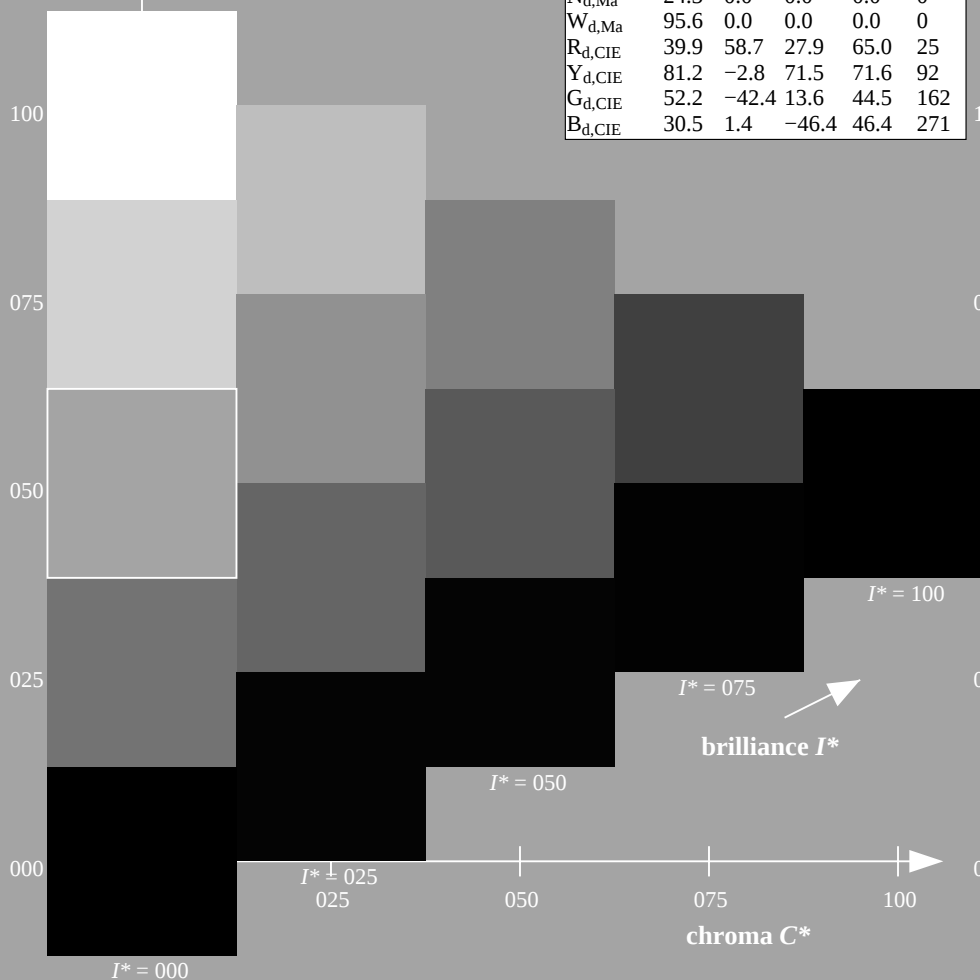
$u^*_{rel} = 92$

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ORS20a; adapted (a) CIELAB data					
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$R75Y_{100_100d}$	78.6	4.3	84.7	84.8	87
$Y00G_{100_100d}$	87.8	-10.2	95.4	96.0	96
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$Y75G_{100_100d}$	57.9	-48.3	45.8	66.5	136
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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 $cmY0^*_{dd}$

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 elementary CIELAB (a^*_e, b^*_e) chroma diagram

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

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 standard CIELAB (a^*_s, b^*_s) chroma diagram

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

G_s green

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

R_s red

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

C_s blue-green

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

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

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 $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

The angles of the primary colours (x=LabCh) are: h _{ab,d} , h _{ab,s} , h _{ab,e} , r ^g b* _{dd64M} , LAB* _{ddx64M} (x=LabCh), r ^g b* _{ddx361M} , LAB* _{ddx361M} (x=LabCh), r ^g b* _{dsx361M} , LAB* _{dsx361M} (x=LabCh), r ^g b* _{dex361M} , LAB* _{dex361M}																																		
h _{ab,d}	h _{ab,s}	h _{ab,e}	r ^g b* _{dd64M}	LAB* _{ddx64M} (x=LabCh)	r ^g b* _{ddx361M}	LAB* _{ddx361M} (x=LabCh)	r ^g b* _{dsx361M}	LAB* _{dsx361M} (x=LabCh)	r ^g b* _{dex361M}	LAB* _{dex361M}																								
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	75.0	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	83
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	127.2	0.5	1.0	0.0	70.6	-29.7	66.5	72.8	114.0	0.5	1.0	0.0	70.6	-29.6	66.5	72.8	114	0.399	1.0	0.0	66.7	-34.5	59.9	69.2	120	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	0.383	1.0	0.0	66.1	-35.2	58.9	68.6	120	0.325	1.0	0.0	62.8	-40.6	54.0	67.6	127	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	0.25	1.0	0.0	58.4	-47.3	46.9	66.6	135	0.253	1.0	0.0	58.6	-47.0	47.1	66.7	135	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	0.133	1.0	0.0	55.0	-53.5	39.2	66.4	143	0.159	1.0	0.0	55.7	-52.3	40.9	66.4	142	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	0.0	1.0	0.0	50.1	-64.9	29.6	71.4	155	0.062	1.0	0.0	52.4	-59.6	34.5	68.9	150	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	0.0	1.0	0.117	50.5	-62.9	22.4	66.9	160	0.0	1.0	0.035	50.2	-64.4	27.4	70.0	157	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	0.0	1.0	0.25	51.2	-58.8	12.7	60.3	167	0.0	1.0	0.2	51.0	-60.5	16.2	62.8	165	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	0.0	1.0	0.367	52.0	-54.8	3.7	55.1	176	0.0	1.0	0.309	51.6	-57.0	8.0	57.7	172	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	0.0	1.0	0.5	53.0	-48.6	-7.9	49.3	189	0.0	1.0	0.407	52.3	-53.2	0.0	53.3	180	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	0.0	1.0	0.617	54.0	-42.8	-17.5	46.3	202	0.0	1.0	0.477	52.8	-49.9	-6.0	50.3	187	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	0.0	1.0	0.75	55.0	-35.9	-27.3	45.3	217	0.0	1.0	0.551	53.4	-46.3	-12.3	48.0	195	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	0.0	1.0	0.867	55.8	-31.0	-34.0	46.1	227	0.0	1.0	0.614	54.0	-42.9	-17.3	46.4	202	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	0.0	1.0	1.0	56.8	-25.4	-41.4	48.7	238	0.0	1.0	0.685	54.5	-39.5	-22.8	45.7	210	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	0.0	0.883	1.0	54.3	-21.4	-41.3	46.6	242	0.0	1.0	0.747	55.0	-36.1	-27.2	45.3	217	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	0.0	0.75	1.0	50.4	-15.4	-41.0	44.0	249	0.0	1.0	0.837	55.6	-32.4	-32.4	45.9	225	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	0.0	0.633	1.0	46.8	-9.8	-40.8	42.1	256	0.0	1.0	0.92	56.2	-28.9	-37.0	47.1	232	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	0.0	0.5	1.0	41.7	-1.1	-40.6	40.7	268	0.0	0.956	1.0	55.9	-23.9	-41.4	48.0	240	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	0.0	0.383	1.0	37.6	5.6	-40.2	40.7	277	0.0	0.795	1.0	51.8	-17.4	-41.2	44.9	247	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	0.0	0.25	1.0	32.9	14.4	-40.1	42.7	289	0.0	0.657	1.0	47.5	-10.9	-40.9	42.5	255	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	0.0	0.133	1.0	28.9	21.9	-40.2	45.9	298	0.0	0.569	1.0	44.4	-5.7	-40.9	41.4	262	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																									

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}	$LAB^*_{dd64M} (x=LabCh)$	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$	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	0.255	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	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	46.0	76.5	11.8	77.4	368			
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/QE77L0FA.TXT /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 $RYGCBM_d$: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; 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)	R_d	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}$ (x=LabCh)	R_s	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}$ (x=LabCh)	R_e	$rgb^*_{dd361Mi}$	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 0.096 45.5 71.4 41.2 82.4 30		1.0 0.0 0.0	1.0 0.0 0.255 45.7 72.2 34.4 80.0 25		1.0 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 42.8 83.1 31		1.0 0.017 0.0	1.0 0.0 0.218 45.6 72.0 36.1 80.6 26		1.0 0.017 0.0				
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 44.4 83.7 32		1.0 0.033 0.0	1.0 0.0 0.18 45.6 71.8 37.7 81.1 27		1.0 0.033 0.0				
34	33	28	1.0 0.05 0.0	46.8 67.7 46.8 82.3 34		1.0 0.015 0.0 45.9 70.0 45.5 83.5 33		1.0 0.05 0.0	1.0 0.0 0.142 45.6 71.6 39.4 81.7 28		1.0 0.05 0.0				
35	34	29	1.0 0.066 0.0	47.3 66.6 47.4 81.8 35		1.0 0.036 0.0 46.5 68.6 46.3 82.8 34		1.0 0.067 0.0	1.0 0.0 0.099 45.5 71.4 41.1 82.4 29		1.0 0.067 0.0				
36	35	31	1.0 0.083 0.0	47.7 65.5 48.0 81.2 36		1.0 0.057 0.0 47.1 67.3 47.1 82.1 35		1.0 0.083 0.0	1.0 0.0 0.053 45.5 71.2 42.9 83.1 31		1.0 0.083 0.0				
36	36	32	1.0 0.1 0.0	48.2 64.4 48.5 80.7 36		1.0 0.079 0.0 47.6 65.9 47.9 81.4 36		1.0 0.1 0.0	1.0 0.0 0.006 45.5 71.0 44.6 83.8 32		1.0 0.1 0.0				
37	37	33	1.0 0.116 0.0	48.6 63.3 49.1 80.2 37		1.0 0.1 0.0 48.2 64.5 48.6 80.7 37		1.0 0.117 0.0	1.0 0.021 0.0 46.0 69.6 45.7 83.3 33		1.0 0.117 0.0				
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 49.3 80.1 38		1.0 0.133 0.0	1.0 0.044 0.0 46.7 68.1 46.6 82.5 34		1.0 0.133 0.0				
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 50.1 79.6 39		1.0 0.15 0.0	1.0 0.068 0.0 47.4 66.6 47.5 81.8 35		1.0 0.15 0.0				
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 50.9 79.1 40		1.0 0.167 0.0	1.0 0.092 0.0 48.0 65.0 48.3 81.0 36		1.0 0.167 0.0				
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 51.6 78.7 41		1.0 0.183 0.0	1.0 0.116 0.0 48.7 63.5 49.1 80.2 37		1.0 0.183 0.0				
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 52.3 78.2 42		1.0 0.2 0.0	1.0 0.135 0.0 49.3 62.0 49.9 79.6 38		1.0 0.2 0.0				
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 53.0 77.8 43		1.0 0.217 0.0	1.0 0.151 0.0 49.9 60.7 50.8 79.1 39		1.0 0.217 0.0				
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 53.7 77.3 44		1.0 0.233 0.0	1.0 0.167 0.0 50.5 59.3 51.7 78.6 41		1.0 0.233 0.0				
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 54.4 76.9 45		1.0 0.25 0.0	1.0 0.183 0.0 51.1 57.9 52.5 78.1 42		1.0 0.25 0.0				
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 55.0 76.4 46		1.0 0.267 0.0	1.0 0.198 0.0 51.7 56.5 53.2 77.6 43		1.0 0.267 0.0				
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 55.6 76.0 47		1.0 0.283 0.0	1.0 0.214 0.0 52.3 55.1 54.0 77.1 44		1.0 0.283 0.0				
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 56.3 75.8 48		1.0 0.3 0.0	1.0 0.23 0.0 52.9 53.7 54.7 76.6 45		1.0 0.3 0.0				
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 57.1 75.6 49		1.0 0.317 0.0	1.0 0.246 0.0 53.5 52.3 55.4 76.1 46		1.0 0.317 0.0				
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 57.8 75.4 50		1.0 0.333 0.0	1.0 0.261 0.0 54.2 51.0 56.2 75.9 47		1.0 0.333 0.0				
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 58.5 75.2 51		1.0 0.35 0.0	1.0 0.274 0.0 54.8 49.8 57.0 75.6 48		1.0 0.35 0.0				
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 59.1 75.0 52		1.0 0.367 0.0	1.0 0.288 0.0 55.4 48.5 57.8 75.4 49		1.0 0.367 0.0				
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 59.8 74.8 53		1.0 0.383 0.0	1.0 0.302 0.0 56.0 47.2 58.5 75.2 51		1.0 0.383 0.0				
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 60.4 74.6 54		1.0 0.4 0.0	1.0 0.316 0.0 56.6 45.9 59.3 75.0 52		1.0 0.4 0.0				
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 61.0 74.4 55		1.0 0.417 0.0	1.0 0.33 0.0 57.2 44.6 60.0 74.8 53		1.0 0.417 0.0				
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 61.5 74.2 56		1.0 0.433 0.0	1.0 0.343 0.0 57.8 43.3 60.6 74.5 54		1.0 0.433 0.0				
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 62.1 74.0 57		1.0 0.45 0.0	1.0 0.357 0.0 58.4 42.0 61.3 74.3 55		1.0 0.45 0.0				
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 62.8 74.1 58		1.0 0.467 0.0	1.0 0.371 0.0 59.0 40.7 61.9 74.1 56		1.0 0.467 0.0				
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 63.5 74.1 59		1.0 0.483 0.0	1.0 0.385 0.0 59.6 39.5 62.7 74.1 57		1.0 0.483 0.0				
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 64.2 74.2 60		1.0 0.5 0.0	1.0 0.398 0.0 60.3 38.3 63.5 74.1 58		1.0 0.5 0.0				
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 64.9 74.2 61		1.0 0.517 0.0	1.0 0.412 0.0 60.9 37.1 64.2 74.2 60		1.0 0.517 0.0				
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 65.6 74.3 62		1.0 0.533 0.0	1.0 0.426 0.0 61.5 35.8 65.0 74.2 61		1.0 0.533 0.0				
71	63	62	1.0 0.55 0.0	67.7 23.8 72.3 76.1 71		1.0 0.449 0.0 62.6 33.7 66.2 74.3 63		1.0 0.55 0.0	1.0 0.439 0.0 62.1 34.6 65.7 74.3 62		1.0 0.55 0.0				
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 66.9 74.4 64		1.0 0.567 0.0	1.0 0.453 0.0 62.8 33.3 66.4 74.3 63		1.0 0.567 0.0				
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 67.5 74.4 65		1.0 0.583 0.0	1.0 0.467 0.0 63.4 32.1 67.1 74.4 64		1.0 0.583 0.0				
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 68.0 74.5 66		1.0 0.6 0.0	1.0 0.48 0.0 64.0 30.8 67.8 74.5 65		1.0 0.6 0.0				
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 68.6 74.5 67		1.0 0.617 0.0	1.0 0.494 0.0 64.6 29.5 68.4 74.5 66		1.0 0.617 0.0				
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 69.4 74.8 68		1.0 0.633 0.0	1.0 0.507 0.0 65.3 28.2 69.2 74.8 67		1.0 0.633 0.0				
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 70.2 75.2 69		1.0 0.65 0.0	1.0 0.519 0.0 66.0 27.0 70.1 75.2 68		1.0 0.65 0.0				
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 71.0 75.6 70		1.0 0.667 0.0	1.0 0.531 0.0 66.7 25.8 71.0 75.6 70		1.0 0.667 0.0				
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 71.8 75.9 71		1.0 0.683 0.0	1.0 0.543 0.0 67.4 24.6 71.9 76.0 71		1.0 0.683 0.0				
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 72.6 76.3 72		1.0 0.7 0.0	1.0 0.555 0.0 68.1 23.3 72.8 76.4 72		1.0 0.7 0.0				
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 73.3 76.6 73		1.0 0.717 0.0	1.0 0.568 0.0 68.8 22.0 73.6 76.8 73		1.0 0.717 0.0				
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 74.0 77.0 74		1.0 0.733 0.0	1.0 0.58 0.0 69.5 20.6 74.4 77.2 74		1.0 0.733 0.0				
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 74.7 77.4 75		1.0 0.75 0.0	1.0 0.592 0.0 70.2 19.3 75.2 77.6 75		1.0 0.75 0.0				

1-103931-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 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

TUB registration: 20130201-QE77/QE77L0FA.TXT /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^*_{d361M}	$LAB^*_{ds361Mi}$	$LAB^*_{ds361Mi}$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
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 74.7	77.4 75	1.0 0.75 0.0	1.0 0.592 0.0	70.2 19.3 75.2	77.6 75	1.0 0.75 0.0
87	76	76	1.0 0.766 0.0	78.6 4.3 84.7	84.8 87	1.0 0.596 0.0	70.5 18.8 75.4	77.7 76	1.0 0.767 0.0	1.0 0.604 0.0	70.9 17.9 75.9	78.0 76	1.0 0.767 0.0
87	77	77	1.0 0.783 0.0	79.4 3.2 85.6	85.7 87	1.0 0.607 0.0	71.1 17.6 76.1	78.1 77	1.0 0.783 0.0	1.0 0.616 0.0	71.6 16.5 76.6	78.4 77	1.0 0.783 0.0
88	78	78	1.0 0.8 0.0	80.1 2.0 86.5	86.5 88	1.0 0.618 0.0	71.7 16.3 76.7	78.5 78	1.0 0.8 0.0	1.0 0.63 0.0	72.4 15.1 77.4	78.9 78	1.0 0.8 0.0
89	79	80	1.0 0.816 0.0	80.8 0.8 87.3	87.3 89	1.0 0.631 0.0	72.4 15.1 77.5	78.9 79	1.0 0.817 0.0	1.0 0.648 0.0	73.2 13.8 78.5	79.7 80	1.0 0.817 0.0
90	80	81	1.0 0.833 0.0	81.6 -0.3 88.2	88.2 90	1.0 0.647 0.0	73.2 13.8 78.4	79.6 80	1.0 0.833 0.0	1.0 0.667 0.0	74.1 12.3 79.5	80.5 81	1.0 0.833 0.0
91	81	82	1.0 0.85 0.0	82.3 -1.5 89.0	89.0 91	1.0 0.664 0.0	73.9 12.6 79.4	80.4 81	1.0 0.85 0.0	1.0 0.685 0.0	74.9 10.9 80.5	81.3 82	1.0 0.85 0.0
91	82	83	1.0 0.866 0.0	83.1 -2.8 89.8	89.8 91	1.0 0.68 0.0	74.7 11.3 80.3	81.1 82	1.0 0.867 0.0	1.0 0.703 0.0	75.8 9.4 81.5	82.0 83	1.0 0.867 0.0
92	83	84	1.0 0.883 0.0	83.7 -3.8 90.5	90.6 92	1.0 0.697 0.0	75.5 10.0 81.2	81.8 83	1.0 0.883 0.0	1.0 0.721 0.0	76.6 7.9 82.4	82.8 84	1.0 0.883 0.0
92	84	85	1.0 0.9 0.0	84.3 -4.7 91.3	91.4 92	1.0 0.713 0.0	76.2 8.6 82.0	82.5 84	1.0 0.9 0.0	1.0 0.74 0.0	77.5 6.4 83.4	83.6 85	1.0 0.9 0.0
93	85	86	1.0 0.916 0.0	84.9 -5.6 92.0	92.2 93	1.0 0.729 0.0	77.0 7.2 82.9	83.2 85	1.0 0.917 0.0	1.0 0.76 0.0	78.4 4.8 84.4	84.6 86	1.0 0.917 0.0
94	86	87	1.0 0.933 0.0	85.5 -6.5 92.7	92.9 94	1.0 0.746 0.0	77.7 5.9 83.7	83.9 86	1.0 0.933 0.0	1.0 0.784 0.0	79.4 3.2 85.7	85.7 87	1.0 0.933 0.0
94	87	88	1.0 0.95 0.0	86.0 -7.4 93.4	93.7 94	1.0 0.766 0.0	78.6 4.4 84.7	84.8 87	1.0 0.95 0.0	1.0 0.807 0.0	80.5 1.6 86.9	86.9 88	1.0 0.95 0.0
95	88	90	1.0 0.966 0.0	86.6 -8.3 94.1	94.5 95	1.0 0.787 0.0	79.6 3.0 85.8	85.9 88	1.0 0.967 0.0	1.0 0.831 0.0	81.5 0.0 88.1	88.1 90	1.0 0.967 0.0
95	89	91	1.0 0.983 0.0	87.2 -9.2 94.8	95.2 95	1.0 0.808 0.0	80.5 1.5 86.9	86.9 89	1.0 0.983 0.0	1.0 0.854 0.0	82.6 -1.8 89.2	89.3 91	1.0 0.983 0.0
96	90	92	1.0 1.0 0.0	87.8 -10.2 95.4	96.0 96	Y_d 1.0 0.829 0.0	81.4 0.0 88.0	88.0 90	Y_s 1.0 1.0 0.0	1.0 0.879 0.0	83.6 -3.6 90.4	90.5 92	Y_e 1.0 1.0 0.0
96	91	93	0.983 1.0 0.0	87.3 -10.7 94.6	95.2 96	1.0 0.85 0.0	82.4 -1.5 89.0	89.0 91	0.983 1.0 0.0	1.0 0.916 0.0	84.9 -5.5 92.0	92.2 93	0.983 1.0 0.0
96	92	94	0.966 1.0 0.0	86.8 -11.2 93.8	94.5 96	1.0 0.871 0.0	83.3 -3.0 90.0	90.1 92	0.967 1.0 0.0	1.0 0.953 0.0	86.2 -7.5 93.6	93.9 94	0.967 1.0 0.0
97	93	95	0.95 1.0 0.0	86.4 -11.7 93.0	93.7 97	1.0 0.901 0.0	84.4 -4.7 91.4	91.5 93	0.95 1.0 0.0	1.0 0.99 0.0	87.5 -9.6 95.1	95.6 95	0.95 1.0 0.0
97	94	96	0.933 1.0 0.0	85.9 -12.2 92.2	93.0 97	1.0 0.933 0.0	85.5 -6.4 92.7	93.0 94	0.933 1.0 0.0	0.961 1.0 0.0	86.7 -11.3 93.6	94.3 96	0.933 1.0 0.0
97	95	98	0.916 1.0 0.0	85.5 -12.7 91.3	92.2 97	1.0 0.965 0.0	86.6 -8.1 94.1	94.4 95	0.917 1.0 0.0	0.907 1.0 0.0	85.3 -12.9 90.9	91.8 98	0.917 1.0 0.0
98	96	99	0.9 1.0 0.0	85.0 -13.2 90.5	91.5 98	1.0 0.997 0.0	87.7 -9.9 95.4	95.9 96	0.9 1.0 0.0	0.856 1.0 0.0	83.8 -14.4 88.4	89.6 99	0.9 1.0 0.0
98	97	100	0.883 1.0 0.0	84.5 -13.6 89.7	90.7 98	0.959 1.0 0.0	86.7 -11.4 93.5	94.2 97	0.883 1.0 0.0	0.807 1.0 0.0	82.4 -15.8 86.2	87.7 100	0.883 1.0 0.0
99	98	101	0.866 1.0 0.0	84.1 -14.1 88.9	90.0 99	0.914 1.0 0.0	85.4 -12.7 91.2	92.1 98	0.867 1.0 0.0	0.759 1.0 0.0	81.0 -17.2 84.0	85.7 101	0.867 1.0 0.0
99	99	102	0.85 1.0 0.0	83.6 -14.6 88.1	89.3 99	0.869 1.0 0.0	84.2 -14.0 89.0	90.1 99	0.85 1.0 0.0	0.729 1.0 0.0	79.9 -18.6 82.3	84.4 102	0.85 1.0 0.0
99	100	103	0.833 1.0 0.0	83.1 -15.1 87.4	88.7 99	0.827 1.0 0.0	83.0 -15.3 87.1	88.5 100	0.833 1.0 0.0	0.704 1.0 0.0	78.8 -20.0 80.8	83.2 103	0.833 1.0 0.0
100	101	105	0.816 1.0 0.0	82.6 -15.6 86.6	88.0 100	0.785 1.0 0.0	81.8 -16.5 85.2	86.8 101	0.817 1.0 0.0	0.679 1.0 0.0	77.7 -21.3 79.2	82.0 105	0.817 1.0 0.0
100	102	106	0.8 1.0 0.0	82.2 -16.1 85.8	87.3 100	0.747 1.0 0.0	80.6 -17.6 83.4	85.2 102	0.8 1.0 0.0	0.654 1.0 0.0	76.6 -22.6 77.6	80.8 106	0.8 1.0 0.0
101	103	107	0.783 1.0 0.0	81.7 -16.6 85.1	86.7 101	0.725 1.0 0.0	79.7 -18.8 82.0	84.2 103	0.783 1.0 0.0	0.628 1.0 0.0	75.5 -23.8 76.0	79.6 107	0.783 1.0 0.0
101	104	108	0.766 1.0 0.0	81.2 -17.0 84.3	86.0 101	0.703 1.0 0.0	78.7 -20.0 80.7	83.2 104	0.767 1.0 0.0	0.605 1.0 0.0	74.6 -25.0 74.3	78.4 108	0.767 1.0 0.0
101	105	109	0.75 1.0 0.0	80.7 -17.5 83.5	85.3 101	0.682 1.0 0.0	77.8 -21.2 79.4	82.2 105	0.75 1.0 0.0	0.583 1.0 0.0	73.7 -26.1 72.7	77.3 109	0.75 1.0 0.0
102	106	110	0.733 1.0 0.0	80.0 -18.4 82.5	84.6 102	0.66 1.0 0.0	76.8 -22.3 78.0	81.1 106	0.733 1.0 0.0	0.56 1.0 0.0	72.9 -27.1 71.0	76.1 110	0.733 1.0 0.0
103	107	112	0.716 1.0 0.0	79.3 -19.3 81.5	83.8 103	0.638 1.0 0.0	75.9 -23.3 76.6	80.1 107	0.717 1.0 0.0	0.538 1.0 0.0	72.0 -28.1 69.3	74.9 112	0.717 1.0 0.0
104	108	113	0.7 1.0 0.0	78.5 -20.2 80.5	83.0 104	0.617 1.0 0.0	75.0 -24.3 75.2	79.1 108	0.7 1.0 0.0	0.515 1.0 0.0	71.2 -29.0 67.7	73.7 113	0.7 1.0 0.0
104	109	114	0.683 1.0 0.0	77.8 -21.1 79.4	82.2 104	0.598 1.0 0.0	74.3 -25.3 73.8	78.1 109	0.683 1.0 0.0	0.494 1.0 0.0	70.4 -30.0 66.1	72.6 114	0.683 1.0 0.0
105	110	115	0.666 1.0 0.0	77.1 -22.0 78.4	81.4 105	0.579 1.0 0.0	73.6 -26.2 72.4	77.0 110	0.667 1.0 0.0	0.474 1.0 0.0	69.6 -31.0 64.8	71.9 115	0.667 1.0 0.0
106	111	116	0.65 1.0 0.0	76.4 -22.8 77.3	80.6 106	0.559 1.0 0.0	72.9 -27.1 71.0	76.0 111	0.65 1.0 0.0	0.454 1.0 0.0	68.8 -32.0 63.5	71.2 116	0.65 1.0 0.0
107	112	117	0.633 1.0 0.0	75.6 -23.6 76.2	79.8 107	0.54 1.0 0.0	72.1 -28.0 69.5	75.0 112	0.633 1.0 0.0	0.434 1.0 0.0	68.0 -32.9 62.2	70.5 117	0.633 1.0 0.0
108	113	119	0.616 1.0 0.0	75.0 -24.4 75.1	79.0 108	0.521 1.0 0.0	71.4 -28.8 68.1	74.0 113	0.617 1.0 0.0	0.414 1.0 0.0	67.3 -33.8 60.9	69.7 119	0.617 1.0 0.0
108	114	120	0.6 1.0 0.0	74.3 -25.3 73.9	78.1 108	0.501 1.0 0.0	70.7 -29.6 66.6	72.9 114	0.6 1.0 0.0	0.394 1.0 0.0	66.5 -34.7 59.6	69.0 120	0.6 1.0 0.0
109	115	121	0.583 1.0 0.0	73.7 -26.1 72.7	77.2 109	0.484 1.0 0.0	70.0 -30.4 65.5	72.3 115	0.583 1.0 0.0	0.375 1.0 0.0	65.7 -35.5 58.3	68.3 121	0.583 1.0 0.0
110	116	122	0.566 1.0 0.0	73.1 -26.9 71.4	76.3 110	0.467 1.0 0.0	69.3 -31.3 64.4	71.7 116	0.567 1.0 0.0	0.364 1.0 0.0	65.1 -36.6 57.4	68.2 122	0.567 1.0 0.0
111	117	123	0.55 1.0 0.0	72.4 -27.6 70.2	75.5 111	0.45 1.0 0.0	68.7 -32.2 63.3	71.0 117	0.55 1.0 0.0	0.354 1.0 0.0	64.5 -37.7 56.6	68.0 123	0.55 1.0 0.0
112	118	124	0.533 1.0 0.0	71.8 -28.3 69.0	74.6 112	0.433 1.0 0.0	68.0 -33.0 62.2	70.4 118	0.533 1.0 0.0	0.343 1.0 0.0	63.9 -38.8 55.7	67.9 124	0.533 1.0 0.0
113	119	126	0.516 1.0 0.0	71.2 -29.0 67.7	73.7 113	0.416 1.0 0.0	67.3 -33.7 61.1	69.8 119	0.517 1.0 0.0	0.333 1.0 0.0	63.3 -39.8 54.7	67.8 126	0.517 1.0 0.0
114	120	127	0.5 1.0 0.0	70.6 -29.7 66.5	72.8 114	0.399 1.0 0.0	66.7 -34.5 59.9	69.2 120	0.5 1.0 0.0	0.322 1.0 0.0	62.6 -40.8 53.8	67.6 127	0.5 1.0 0.0

1-1031031-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 11/33

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/QE77L0FA.TXT /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}				$LAB^*_{dd361Mi}(x=LabCh)$				$rgb^*_{ds361Mi}$				$LAB^*_{dsx361Mi}(x=LabCh)$				$rgb^*_{dd361Mi}$				$rgb^*_{de361Mi}$				$LAB^*_{dex361Mi}(x=LabCh)$				$rgb^*_{dd361Mi}$				rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
114	120	127	0.5	1.0	0.0	70.6	-29.7	66.5	72.8	114	0.399	1.0	0.0	66.7	-34.5	59.9	69.2	120	0.5	1.0	0.0	0.322	1.0	0.0	62.6	-40.8	53.8	67.6	127	0.5	1.0	0.0					
115	121	128	0.483	1.0	0.0	69.9	-30.5	65.4	72.2	115	0.382	1.0	0.0	66.0	-35.2	58.8	68.6	121	0.483	1.0	0.0	0.312	1.0	0.0	62.0	-41.8	52.9	67.5	128	0.483	1.0	0.0					
116	122	129	0.466	1.0	0.0	69.3	-31.4	64.3	71.6	116	0.37	1.0	0.0	65.4	-36.1	57.9	68.3	122	0.467	1.0	0.0	0.301	1.0	0.0	61.4	-42.8	51.9	67.3	129	0.467	1.0	0.0					
117	123	130	0.45	1.0	0.0	68.6	-32.2	63.2	71.0	117	0.361	1.0	0.0	64.9	-37.0	57.1	68.1	123	0.45	1.0	0.0	0.291	1.0	0.0	60.8	-43.8	50.9	67.2	130	0.45	1.0	0.0					
117	124	131	0.433	1.0	0.0	68.0	-33.0	62.1	70.4	117	0.352	1.0	0.0	64.4	-37.9	56.4	68.0	124	0.433	1.0	0.0	0.28	1.0	0.0	60.2	-44.7	49.9	67.0	131	0.433	1.0	0.0					
118	125	133	0.416	1.0	0.0	67.3	-33.8	61.0	69.8	118	0.343	1.0	0.0	63.8	-38.8	55.6	67.9	125	0.417	1.0	0.0	0.27	1.0	0.0	59.6	-45.6	48.9	66.9	133	0.417	1.0	0.0					
119	126	134	0.4	1.0	0.0	66.7	-34.5	59.9	69.2	119	0.334	1.0	0.0	63.3	-39.7	54.8	67.8	126	0.4	1.0	0.0	0.259	1.0	0.0	59.0	-46.5	47.8	66.8	134	0.4	1.0	0.0					
120	127	135	0.383	1.0	0.0	66.0	-35.2	58.8	68.6	120	0.325	1.0	0.0	62.8	-40.6	54.0	67.6	127	0.383	1.0	0.0	0.249	1.0	0.0	58.4	-47.4	46.8	66.6	135	0.383	1.0	0.0					
122	128	136	0.366	1.0	0.0	65.2	-36.4	57.6	68.2	122	0.316	1.0	0.0	62.3	-41.5	53.2	67.5	128	0.367	1.0	0.0	0.233	1.0	0.0	57.9	-48.3	45.8	66.6	136	0.367	1.0	0.0					
124	129	137	0.35	1.0	0.0	64.2	-38.2	56.2	67.9	124	0.307	1.0	0.0	61.7	-42.3	52.4	67.4	129	0.35	1.0	0.0	0.217	1.0	0.0	57.4	-49.2	44.7	66.6	137	0.35	1.0	0.0					
126	130	138	0.333	1.0	0.0	63.2	-39.8	54.7	67.7	126	0.298	1.0	0.0	61.2	-43.1	51.5	67.3	130	0.333	1.0	0.0	0.201	1.0	0.0	57.0	-50.0	43.7	66.5	138	0.333	1.0	0.0					
127	131	140	0.316	1.0	0.0	62.3	-41.4	53.2	67.5	127	0.289	1.0	0.0	60.7	-44.0	50.7	67.2	131	0.317	1.0	0.0	0.185	1.0	0.0	56.5	-50.9	42.7	66.5	140	0.317	1.0	0.0					
129	132	141	0.3	1.0	0.0	61.3	-43.0	51.7	67.3	129	0.28	1.0	0.0	60.2	-44.8	49.8	67.0	132	0.3	1.0	0.0	0.169	1.0	0.0	56.0	-51.7	41.6	66.5	141	0.3	1.0	0.0					
131	133	142	0.283	1.0	0.0	60.3	-44.5	50.1	67.0	131	0.271	1.0	0.0	59.6	-45.5	48.9	66.9	133	0.283	1.0	0.0	0.153	1.0	0.0	55.5	-52.5	40.5	66.4	142	0.283	1.0	0.0					
133	134	143	0.266	1.0	0.0	59.3	-45.9	48.5	66.8	133	0.262	1.0	0.0	59.1	-46.3	48.0	66.8	134	0.267	1.0	0.0	0.137	1.0	0.0	55.1	-53.3	39.4	66.4	143	0.267	1.0	0.0					
135	135	144	0.25	1.0	0.0	58.4	-47.3	46.8	66.6	135	0.253	1.0	0.0	58.6	-47.0	47.1	66.7	135	0.25	1.0	0.0	0.122	1.0	0.0	54.6	-54.2	38.4	66.5	144	0.25	1.0	0.0					
136	136	145	0.233	1.0	0.0	57.9	-48.3	45.8	66.5	136	0.241	1.0	0.0	58.1	-47.8	46.3	66.6	136	0.233	1.0	0.0	0.108	1.0	0.0	54.1	-55.4	37.6	67.0	145	0.233	1.0	0.0					
137	137	147	0.216	1.0	0.0	57.4	-49.2	44.7	66.5	137	0.227	1.0	0.0	57.7	-48.6	45.4	66.6	137	0.217	1.0	0.0	0.095	1.0	0.0	53.6	-56.6	36.7	67.6	147	0.217	1.0	0.0					
138	138	148	0.2	1.0	0.0	56.9	-50.1	43.6	66.5	138	0.213	1.0	0.0	57.3	-49.4	44.5	66.6	138	0.2	1.0	0.0	0.082	1.0	0.0	53.1	-57.8	35.8	68.1	148	0.2	1.0	0.0					
140	139	149	0.183	1.0	0.0	56.4	-51.0	42.5	66.4	140	0.2	1.0	0.0	56.9	-50.1	43.6	66.5	139	0.183	1.0	0.0	0.069	1.0	0.0	52.6	-59.0	34.9	68.6	149	0.183	1.0	0.0					
141	140	150	0.166	1.0	0.0	55.9	-51.9	41.4	66.4	141	0.186	1.0	0.0	56.5	-50.8	42.7	66.5	140	0.167	1.0	0.0	0.056	1.0	0.0	52.1	-60.1	34.0	69.2	150	0.167	1.0	0.0					
142	141	151	0.15	1.0	0.0	55.4	-52.7	40.3	66.4	142	0.172	1.0	0.0	56.1	-51.6	41.8	66.5	141	0.15	1.0	0.0	0.043	1.0	0.0	51.7	-61.3	33.0	69.7	151	0.15	1.0	0.0					
143	142	152	0.133	1.0	0.0	54.9	-53.5	39.1	66.3	143	0.159	1.0	0.0	55.7	-52.3	40.9	66.4	142	0.133	1.0	0.0	0.03	1.0	0.0	51.2	-62.4	32.0	70.2	152	0.133	1.0	0.0					
145	143	154	0.116	1.0	0.0	54.4	-54.7	38.0	66.6	145	0.145	1.0	0.0	55.3	-52.9	40.0	66.4	143	0.117	1.0	0.0	0.016	1.0	0.0	50.7	-63.5	30.9	70.8	154	0.117	1.0	0.0					
146	144	155	0.1	1.0	0.0	53.7	-56.2	37.0	67.3	146	0.131	1.0	0.0	54.9	-53.6	39.0	66.4	144	0.1	1.0	0.0	0.003	1.0	0.0	50.2	-64.6	29.9	71.3	155	0.1	1.0	0.0					
148	145	156	0.083	1.0	0.0	53.1	-57.7	35.9	68.0	148	0.119	1.0	0.0	54.5	-54.5	38.2	66.6	145	0.083	1.0	0.0	0.0	1.0	0.021	50.1	-64.6	28.3	70.6	156	0.083	1.0	0.0					
149	146	157	0.066	1.0	0.0	52.5	-59.2	34.7	68.7	149	0.107	1.0	0.0	54.1	-55.5	37.5	67.1	146	0.067	1.0	0.0	0.0	1.0	0.049	50.3	-64.2	26.5	69.5	157	0.067	1.0	0.0					
151	147	158	0.049	1.0	0.0	51.9	-60.7	33.5	69.4	151	0.096	1.0	0.0	53.7	-56.5	36.8	67.5	147	0.05	1.0	0.0	0.0	1.0	0.077	50.4	-63.7	24.8	68.4	158	0.05	1.0	0.0					
152	148	159	0.033	1.0	0.0	51.3	-62.2	32.2	70.0	152	0.085	1.0	0.0	53.2	-57.6	36.0	68.0	148	0.033	1.0	0.0	0.0	1.0	0.104	50.5	-63.1	23.1	67.3	159	0.033	1.0	0.0					
154	149	161	0.016	1.0	0.0	50.6	-63.6	30.9	70.7	154	0.074	1.0	0.0	52.8	-58.6	35.3	68.4	149	0.017	1.0	0.0	0.0	1.0	0.13	50.6	-62.6	21.5	66.3	161	0.017	1.0	0.0					
155	150	162	0.0	1.0	0.0	50.0	-65.0	29.6	71.4	155	G_d 0.062	1.0	0.0	52.4	-59.6	34.5	68.9	150	G_s 0.0	1.0	0.0	0.0	1.0	0.151	50.7	-62.0	19.9	65.2	162	G_e 0.0	1.0	0.0					
156	151	163	0.0	1.0	0.016	50.1	-64.7	28.5	70.7	156	0.051	1.0	0.0	52.0	-60.6	33.6	69.4	151	0.0	1.0	0.017	0.0	1.0	0.167	50.8	-61.6	18.7	64.4	163	0.0	1.0	0.017					
156	152	164	0.0	1.0	0.033	50.1	-64.5	27.4	70.1	156	0.04	1.0	0.0	51.5	-61.6	32.8	69.8	152	0.0	1.0	0.033	0.0	1.0	0.183	50.9	-61.1	17.5	63.6	164	0.0	1.0	0.033					
157	153	164	0.0	1.0	0.05	50.2	-64.2	26.4	69																												

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^*_{d361Mi}	$LAB^*_{ds361Mi}$	$LAB^*_{dsx361Mi}$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}$
167	165	175	0.0	1.0	0.25	51.2	-58.9	12.7	60.3	167	0.0	1.0	0.25	51.2	-58.9	12.7	60.3	167
168	166	176	0.0	1.0	0.266	51.3	-58.4	11.3	59.5	168	0.0	1.0	0.267	51.3	-58.4	11.3	59.5	168
170	167	177	0.0	1.0	0.283	51.4	-57.9	10.0	58.8	170	0.0	1.0	0.283	51.4	-57.9	10.0	58.8	170
171	168	178	0.0	1.0	0.3	51.5	-57.3	8.7	58.0	171	0.0	1.0	0.3	51.5	-57.3	8.7	58.0	171
172	169	179	0.0	1.0	0.316	51.6	-56.8	7.4	57.3	172	0.0	1.0	0.317	51.6	-56.8	7.4	57.3	172
173	170	180	0.0	1.0	0.333	51.7	-56.2	6.1	56.5	173	0.0	1.0	0.333	51.7	-56.2	6.1	56.5	173
174	171	181	0.0	1.0	0.35	51.8	-55.5	4.9	55.8	174	0.0	1.0	0.35	51.8	-55.5	4.9	55.8	174
176	172	182	0.0	1.0	0.366	51.9	-54.9	3.7	55.0	176	0.0	1.0	0.367	51.9	-54.9	3.7	55.0	176
177	173	183	0.0	1.0	0.383	52.0	-54.2	2.3	54.3	177	0.0	1.0	0.383	52.0	-54.2	2.3	54.3	177
179	174	184	0.0	1.0	0.4	52.2	-53.6	0.7	53.6	179	0.0	1.0	0.4	52.2	-53.6	0.7	53.6	179
180	175	185	0.0	1.0	0.416	52.3	-52.8	-0.8	52.9	180	0.0	1.0	0.417	52.3	-52.8	-0.8	52.9	180
182	176	185	0.0	1.0	0.433	52.4	-52.1	-2.3	52.1	182	0.0	1.0	0.433	52.4	-52.1	-2.3	52.1	182
184	177	186	0.0	1.0	0.45	52.6	-51.3	-3.8	51.4	184	0.0	1.0	0.45	52.6	-51.3	-3.8	51.4	184
185	178	187	0.0	1.0	0.466	52.7	-50.4	-5.3	50.7	185	0.0	1.0	0.467	52.7	-50.4	-5.3	50.7	185
187	179	188	0.0	1.0	0.483	52.8	-49.6	-6.6	50.0	187	0.0	1.0	0.483	52.8	-49.6	-6.6	50.0	187
189	180	189	0.0	1.0	0.5	52.9	-48.6	-8.0	49.3	189	0.0	1.0	0.5	52.9	-48.6	-8.0	49.3	189
191	181	190	0.0	1.0	0.516	53.1	-47.9	-9.5	48.9	191	0.0	1.0	0.517	53.1	-47.9	-9.5	48.9	191
193	182	191	0.0	1.0	0.533	53.2	-47.2	-10.9	48.4	193	0.0	1.0	0.533	53.2	-47.2	-10.9	48.4	193
194	183	192	0.0	1.0	0.55	53.4	-46.4	-12.3	48.0	194	0.0	1.0	0.55	53.4	-46.4	-12.3	48.0	194
196	184	193	0.0	1.0	0.566	53.5	-45.6	-13.7	47.6	196	0.0	1.0	0.567	53.5	-45.6	-13.7	47.6	196
198	185	194	0.0	1.0	0.583	53.6	-44.7	-15.0	47.1	198	0.0	1.0	0.583	53.6	-44.7	-15.0	47.1	198
200	186	195	0.0	1.0	0.6	53.8	-43.8	-16.3	46.7	200	0.0	1.0	0.6	53.8	-43.8	-16.3	46.7	200
202	187	195	0.0	1.0	0.616	53.9	-42.8	-17.5	46.3	202	0.0	1.0	0.617	53.9	-42.8	-17.5	46.3	202
204	188	196	0.0	1.0	0.633	54.1	-42.0	-18.8	46.0	204	0.0	1.0	0.633	54.1	-42.0	-18.8	46.0	204
206	189	197	0.0	1.0	0.65	54.2	-41.2	-20.1	45.9	206	0.0	1.0	0.65	54.2	-41.2	-20.1	45.9	206
207	190	198	0.0	1.0	0.666	54.3	-40.5	-21.4	45.8	207	0.0	1.0	0.667	54.3	-40.5	-21.4	45.8	207
209	191	199	0.0	1.0	0.683	54.5	-39.7	-22.7	45.7	209	0.0	1.0	0.683	54.5	-39.7	-22.7	45.7	209
211	192	200	0.0	1.0	0.7	54.6	-38.8	-23.9	45.6	211	0.0	1.0	0.7	54.6	-38.8	-23.9	45.6	211
213	193	201	0.0	1.0	0.716	54.7	-37.9	-25.1	45.5	213	0.0	1.0	0.717	54.7	-37.9	-25.1	45.5	213
215	194	202	0.0	1.0	0.733	54.9	-37.0	-26.3	45.4	215	0.0	1.0	0.733	54.9	-37.0	-26.3	45.4	215
217	195	203	0.0	1.0	0.75	55.0	-36.0	-27.4	45.3	217	0.0	1.0	0.75	55.0	-36.0	-27.4	45.3	217
218	196	204	0.0	1.0	0.766	55.1	-35.4	-28.4	45.4	218	0.0	1.0	0.767	55.1	-35.4	-28.4	45.4	218
220	197	205	0.0	1.0	0.783	55.2	-34.7	-29.4	45.5	220	0.0	1.0	0.783	55.2	-34.7	-29.4	45.5	220
221	198	206	0.0	1.0	0.8	55.3	-34.0	-30.3	45.6	221	0.0	1.0	0.8	55.3	-34.0	-30.3	45.6	221
223	199	206	0.0	1.0	0.816	55.4	-33.3	-31.3	45.7	223	0.0	1.0	0.817	55.4	-33.3	-31.3	45.7	223
224	200	207	0.0	1.0	0.833	55.6	-32.6	-32.2	45.9	224	0.0	1.0	0.833	55.6	-32.6	-32.2	45.9	224
226	201	208	0.0	1.0	0.85	55.7	-31.8	-33.1	46.0	226	0.0	1.0	0.85	55.7	-31.8	-33.1	46.0	226
227	202	209	0.0	1.0	0.866	55.8	-31.1	-34.0	46.1	227	0.0	1.0	0.867	55.8	-31.1	-34.0	46.1	227
229	203	210	0.0	1.0	0.883	55.9	-30.4	-35.0	46.3	229	0.0	1.0	0.883	55.9	-30.4	-35.0	46.3	229
230	204	211	0.0	1.0	0.9	56.0	-29.7	-35.9	46.7	230	0.0	1.0	0.9	56.0	-29.7	-35.9	46.7	230
231	205	212	0.0	1.0	0.916	56.1	-29.1	-36.9	47.0	231	0.0	1.0	0.917	56.1	-29.1	-36.9	47.0	231
233	206	213	0.0	1.0	0.933	56.3	-28.4	-37.8	47.3	233	0.0	1.0	0.933	56.3	-28.4	-37.8	47.3	233
234	207	214	0.0	1.0	0.95	56.4	-27.7	-38.8	47.7	234	0.0	1.0	0.95	56.4	-27.7	-38.8	47.7	234
235	208	215	0.0	1.0	0.966	56.5	-27.0	-39.7	48.0	235	0.0	1.0	0.967	56.5	-27.0	-39.7	48.0	235
237	209	216	0.0	1.0	0.983	56.6	-26.2	-40.6	48.3	237	0.0	1.0	0.983	56.6	-26.2	-40.6	48.3	237
238	210	216	0.0	1.0	1.0	56.8	-25.5	-41.5	48.7	238	0.0	1.0	1.0	56.8	-25.5	-41.5	48.7	238

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/QE77L0FA.TXT /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	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	C_s	$rgb^*_{dd361Mi}$	$LAB^*_{dex361Mi}(x=LabCh)$	C_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	0.747 55.0	-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/QE77L0FA.TXT /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}	$LAB^*_{dd361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$
289	255	258	0.0 0.25 1.0	32.8 14.3 -40.2 42.7	289	0.0 0.657 1.0	47.5 -10.9 -40.9 42.5	255	0.0 0.25 1.0	0.0 0.613 1.0
290	256	258	0.0 0.233 1.0	32.2 15.3 -40.3 43.1	290	0.0 0.641 1.0	47.0 -10.1 -40.9 42.2	256	0.0 0.233 1.0	0.0 0.603 1.0
292	257	259	0.0 0.216 1.0	31.7 16.4 -40.3 43.6	292	0.0 0.624 1.0	46.5 -9.3 -40.8 42.0	257	0.0 0.217 1.0	0.0 0.593 1.0
293	258	260	0.0 0.2 1.0	31.1 17.5 -40.4 44.0	293	0.0 0.613 1.0	46.1 -8.6 -40.8 41.9	258	0.0 0.2 1.0	0.0 0.583 1.0
294	259	261	0.0 0.183 1.0	30.6 18.5 -40.4 44.5	294	0.0 0.602 1.0	45.7 -7.9 -40.9 41.7	259	0.0 0.183 1.0	0.0 0.573 1.0
295	260	262	0.0 0.166 1.0	30.0 19.6 -40.4 44.9	295	0.0 0.591 1.0	45.3 -7.1 -40.9 41.6	260	0.0 0.167 1.0	0.0 0.562 1.0
297	261	263	0.0 0.15 1.0	29.5 20.7 -40.4 45.4	297	0.0 0.58 1.0	44.8 -6.4 -40.9 41.5	261	0.0 0.15 1.0	0.0 0.552 1.0
298	262	264	0.0 0.133 1.0	28.9 21.8 -40.3 45.8	298	0.0 0.569 1.0	44.4 -5.7 -40.9 41.4	262	0.0 0.133 1.0	0.0 0.542 1.0
299	263	265	0.0 0.116 1.0	28.4 22.8 -40.3 46.3	299	0.0 0.558 1.0	44.0 -4.9 -40.9 41.3	263	0.0 0.117 1.0	0.0 0.532 1.0
300	264	266	0.0 0.1 1.0	27.9 23.8 -40.4 46.9	300	0.0 0.547 1.0	43.5 -4.2 -40.8 41.2	264	0.0 0.1 1.0	0.0 0.522 1.0
301	265	267	0.0 0.083 1.0	27.4 24.7 -40.4 47.4	301	0.0 0.536 1.0	43.1 -3.5 -40.8 41.1	265	0.0 0.083 1.0	0.0 0.512 1.0
302	266	268	0.0 0.066 1.0	26.9 25.7 -40.4 47.9	302	0.0 0.525 1.0	42.7 -2.8 -40.7 40.9	266	0.0 0.067 1.0	0.0 0.502 1.0
303	267	269	0.0 0.049 1.0	26.5 26.6 -40.5 48.4	303	0.0 0.514 1.0	42.3 -2.0 -40.7 40.8	267	0.0 0.05 1.0	0.0 0.491 1.0
304	268	269	0.0 0.033 1.0	26.0 27.6 -40.4 49.0	304	0.0 0.503 1.0	41.8 -1.3 -40.6 40.7	268	0.0 0.033 1.0	0.0 0.48 1.0
305	269	270	0.0 0.016 1.0	25.5 28.6 -40.4 49.5	305	0.0 0.491 1.0	41.4 -0.6 -40.6 40.7	269	0.0 0.017 1.0	0.0 0.469 1.0
306	270	271	0.0 0.0 1.0	25.0 29.5 -40.4 50.0	306	B_d 0.0 0.479 1.0	41.0 0.0 -40.6 40.7	270	B_s 0.0 0.0 1.0	0.0 0.458 1.0
307	271	272	0.016 0.0 1.0	25.4 30.4 -39.9 50.2	307	0.0 0.467 1.0	40.6 0.7 -40.6 40.7	271	0.017 0.0 1.0	0.0 0.447 1.0
308	272	273	0.033 0.0 1.0	25.8 31.3 -39.4 50.4	308	0.0 0.455 1.0	40.2 1.4 -40.6 40.7	272	0.033 0.0 1.0	0.0 0.435 1.0
309	273	274	0.05 0.0 1.0	26.2 32.2 -38.9 50.5	309	0.0 0.443 1.0	39.7 2.1 -40.5 40.7	273	0.05 0.0 1.0	0.0 0.424 1.0
310	274	275	0.066 0.0 1.0	26.5 33.1 -38.4 50.7	310	0.0 0.431 1.0	39.3 2.8 -40.5 40.7	274	0.067 0.0 1.0	0.0 0.413 1.0
311	275	276	0.083 0.0 1.0	26.9 33.9 -37.8 50.8	311	0.0 0.419 1.0	38.9 3.5 -40.4 40.7	275	0.083 0.0 1.0	0.0 0.401 1.0
313	276	277	0.1 0.0 1.0	27.3 34.8 -37.3 51.0	313	0.0 0.407 1.0	38.5 4.3 -40.4 40.7	276	0.1 0.0 1.0	0.0 0.39 1.0
314	277	278	0.116 0.0 1.0	27.7 35.6 -36.7 51.1	314	0.0 0.395 1.0	38.1 5.0 -40.3 40.7	277	0.117 0.0 1.0	0.0 0.378 1.0
315	278	279	0.133 0.0 1.0	27.9 36.4 -36.2 51.3	315	0.0 0.383 1.0	37.6 5.7 -40.2 40.7	278	0.133 0.0 1.0	0.0 0.367 1.0
316	279	280	0.15 0.0 1.0	28.1 37.2 -35.7 51.6	316	0.0 0.371 1.0	37.2 6.4 -40.2 40.8	279	0.15 0.0 1.0	0.0 0.357 1.0
317	280	281	0.166 0.0 1.0	28.2 38.0 -35.2 51.9	317	0.0 0.36 1.0	36.8 7.1 -40.2 41.0	280	0.167 0.0 1.0	0.0 0.346 1.0
318	281	282	0.183 0.0 1.0	28.3 38.8 -34.7 52.1	318	0.0 0.348 1.0	36.4 7.8 -40.3 41.1	281	0.183 0.0 1.0	0.0 0.335 1.0
319	282	283	0.2 0.0 1.0	28.5 39.6 -34.2 52.4	319	0.0 0.337 1.0	36.0 8.6 -40.3 41.3	282	0.2 0.0 1.0	0.0 0.324 1.0
320	283	284	0.216 0.0 1.0	28.6 40.4 -33.7 52.6	320	0.0 0.326 1.0	35.6 9.3 -40.3 41.5	283	0.217 0.0 1.0	0.0 0.313 1.0
321	284	285	0.233 0.0 1.0	28.7 41.2 -33.1 52.9	321	0.0 0.314 1.0	35.2 10.1 -40.3 41.7	284	0.233 0.0 1.0	0.0 0.303 1.0
322	285	285	0.25 0.0 1.0	28.8 41.9 -32.5 53.1	322	0.0 0.303 1.0	34.8 10.8 -40.3 41.9	285	0.25 0.0 1.0	0.0 0.292 1.0
323	286	286	0.266 0.0 1.0	29.4 43.3 -31.8 53.8	323	0.0 0.291 1.0	34.3 11.6 -40.3 42.0	286	0.267 0.0 1.0	0.0 0.281 1.0
325	287	287	0.283 0.0 1.0	29.9 44.7 -31.1 54.4	325	0.0 0.28 1.0	33.9 12.3 -40.3 42.2	287	0.283 0.0 1.0	0.0 0.27 1.0
326	288	288	0.3 0.0 1.0	30.4 46.0 -30.3 55.1	326	0.0 0.269 1.0	33.5 13.1 -40.2 42.4	288	0.3 0.0 1.0	0.0 0.26 1.0
328	289	289	0.316 0.0 1.0	30.9 47.3 -29.4 55.7	328	0.0 0.257 1.0	33.1 13.9 -40.2 42.6	289	0.317 0.0 1.0	0.0 0.249 1.0
329	290	290	0.333 0.0 1.0	31.4 48.6 -28.5 56.4	329	0.0 0.245 1.0	32.7 14.6 -40.1 42.8	290	0.333 0.0 1.0	0.0 0.236 1.0
331	291	291	0.35 0.0 1.0	32.0 49.9 -27.5 57.0	331	0.0 0.232 1.0	32.2 15.5 -40.2 43.2	291	0.35 0.0 1.0	0.0 0.223 1.0
332	292	292	0.366 0.0 1.0	32.5 51.2 -26.5 57.7	332	0.0 0.219 1.0	31.8 16.3 -40.3 43.6	292	0.367 0.0 1.0	0.0 0.211 1.0
333	293	293	0.383 0.0 1.0	32.9 52.3 -25.7 58.3	333	0.0 0.205 1.0	31.4 17.2 -40.3 43.9	293	0.383 0.0 1.0	0.0 0.198 1.0
334	294	294	0.4 0.0 1.0	33.3 53.2 -25.0 58.8	334	0.0 0.192 1.0	30.9 18.0 -40.3 44.3	294	0.4 0.0 1.0	0.0 0.186 1.0
335	295	295	0.416 0.0 1.0	33.7 54.1 -24.4 59.4	335	0.0 0.179 1.0	30.5 18.9 -40.4 44.6	295	0.417 0.0 1.0	0.0 0.173 1.0
336	296	296	0.433 0.0 1.0	34.0 55.0 -23.7 59.9	336	0.0 0.166 1.0	30.0 19.7 -40.3 45.0	296	0.433 0.0 1.0	0.0 0.161 1.0
337	297	297	0.45 0.0 1.0	34.4 55.9 -23.0 60.5	337	0.0 0.152 1.0	29.6 20.6 -40.3 45.4	297	0.45 0.0 1.0	0.0 0.148 1.0
338	298	298	0.466 0.0 1.0	34.8 56.8 -22.2 61.0	338	0.0 0.139 1.0	29.1 21.5 -40.3 45.7	298	0.467 0.0 1.0	0.0 0.136 1.0
339	299	299	0.483 0.0 1.0	35.2 57.7 -21.5 61.6	339	0.0 0.126 1.0	28.7 22.3 -40.2 46.1	299	0.483 0.0 1.0	0.0 0.122 1.0
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 0.106 1.0

TUB registration: 20130201-QE77/QE77L0FA.TXT/.PS
application for measurement of offset print output, separation

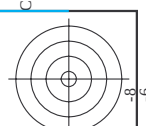
1-1031531-F0

Output: Offset standard print; separation cmy0*, D65, page 17/3



TUB registration: 20130201-QE77/QE77L0FA.TXT /.PS
- application for measurement of offset print output, separate

TUB material: code=rha4ta
ny0* (CMY0)

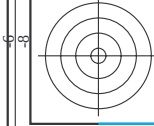


V L O Y M
http://130.149.60.45/~farbmatrik/QE77/QE77L0FA.TXT /PS; 3D-linearization
F: 3D-linearization QE77/QE77LE30FA.DAT in file (F), page 18/33

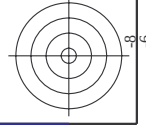
[illegible]

Mean color difference of this page:

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



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>



QE770-7N, Page 18/33-F

QE770-7N, Page 18/33-F

-1031731-F0

TUB registration: 20130201-QE77/QE77L0FA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separation cmy0* (CMY0)

n/f	HfC*Fid	rgb_Fid	icr_Fid	hsa_Fid	rgb*Fid	LabCH*Fid	cmy0*_sep_Fid	delta	rgb*Mid	hsa_Mid	LabCH*Mid	32.3	44.8	83.9	32.3
0/648	R0Y_100_100ad	1.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	389	45.4	70.9	44.8	83.9	32.3
1/666	R25Y_100_100ad	0.0	0.0	0.0	1.0	0.233	0.0	0.765	0.0	42	53.0	53.4	54.8	76.5	45.7
2/684	R50Y_100_100ad	0.0	0.0	0.0	1.0	0.466	0.0	0.534	0.0	59	64.9	28.9	68.6	74.5	67.1
3/702	R75Y_100_100ad	0.0	0.0	0.0	1.0	0.700	0.0	0.300	0.0	77	78.6	4.3	84.7	84.8	87.0
4/720	Y00C_100_100ad	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	102	87.8	-10.2	95.4	96.0	96.1
5/738	Y25C_100_100ad	0.0	0.0	0.0	1.0	0.233	0.0	0.765	0.0	109	81.2	-17.0	84.3	86.0	101.4
6/756	Y50C_100_100ad	0.0	0.0	0.0	1.0	0.466	0.0	0.534	0.0	117	70.6	-29.7	66.5	72.8	114.0
7/774	Y75C_100_100ad	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	137	0.0	0.0	0.0	0.0	136.5
8/792	G00B_100_100ad	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	149	50.0	-65.0	29.6	71.4	155.5
9/792	G00B_100_100ad	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	149	50.0	-65.0	29.6	71.4	155.5
10/76	G25B_100_100ad	0.0	0.0	0.0	1.0	0.233	0.0	0.765	0.0	180	52.9	-48.6	-8.0	49.3	189.3
11/80	G50B_100_100ad	0.0	0.0	0.0	1.0	0.466	0.0	0.534	0.0	210	56.8	-25.5	-41.5	48.7	238.4
12/84	G75B_100_100ad	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	240	0.0	0.0	0.0	0.0	268.2
13/8	B00M_100_100ad	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	270	25.0	29.5	-40.4	50.0	306.2
14/332	B25R_100_100ad	0.0	0.0	0.0	1.0	0.233	0.0	0.765	0.0	300	35.6	58.6	-20.7	62.1	340.5
15/652	B50R_100_100ad	0.0	0.0	0.0	1.0	0.466	0.0	0.534	0.0	330	46.1	79.3	-0.2	79.3	359.8
16/652	B75R_100_100ad	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	360	0.0	0.0	0.0	0.0	359.8
17/648	R00Y_100_100ad	1.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	389	45.4	70.9	44.8	83.9	32.3
18/608	R00Y_100_050ad	1.0	0.5	0.5	1.0	0.5	0.5	0.5	0.5	389	45.4	70.9	44.8	83.9	32.3
19/608	R00Y_100_050ad	1.0	0.5	0.5	1.0	0.5	0.5	0.5	0.5	389	45.4	70.9	44.8	83.9	32.3
20/724	Y00C_100_050ad	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	59	64.9	28.9	68.6	74.5	67.1
21/624	Y25C_100_050ad	0.0	0.0	0.0	1.0	0.233	0.0	0.765	0.0	119	0.0	0.0	0.0	0.0	114.0
22/400	G00B_100_050ad	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	149	50.0	-65.0	29.6	71.4	155.5
23/400	G00B_100_050ad	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	149	50.0	-65.0	29.6	71.4	155.5
24/368	B00R_100_050ad	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0	270	25.0	29.5	-40.4	50.0	306.2
25/692	B50R_100_050ad	0.0	0.0	0.0	1.0	0.233	0.0	0.765	0.0	330	46.1	79.3	-0.2	79.3	359.8
26/688	R00Y_100_050ad	1.0	0.5	0.5	1.0	0.5	0.5	0.5	0.5	389	45.4	70.9	44.8	83.9	32.3
27/506	R00Y_075_050ad	0.75	0.25	0.25	0.75	0.25	0.25	0.25	0.25	389	45.4	70.9	44.8	83.9	32.3
28/524	R50Y_075_050ad	0.75	0.25	0.25	0.75	0.25	0.25	0.25	0.25	389	45.4	70.9	44.8	83.9	32.3
29/542	Y00C_075_050ad	0.75	0.25	0.25	0.75	0.25	0.25	0.25	0.25	59	64.9	28.9	68.6	74.5	67.1
30/380	Y50C_075_050ad	0.75	0.25	0.25	0.75	0.25	0.25	0.25	0.25	89	70.6	-29.7	66.5	72.8	114.0
31/218	G00B_075_050ad	0.25	0.75	0.75	0.25	0.75	0.25	0.75	0.25	149	50.0	-65.0	29.6	71.4	155.5
32/222	G50B_075_050ad	0.25	0.75	0.75	0.25	0.75	0.25	0.75	0.25	210	0.0	0.0	0.0	0.0	238.4
33/186	B00R_075_050ad	0.25	0.75	0.75	0.25	0.75	0.25	0.75	0.25	270	25.0	29.5	-40.4	50.0	306.2
34/510	B50R_075_050ad	0.75	0.25	0.25	0.75	0.25	0.25	0.25	0.25	330	46.1	79.3	-0.2	79.3	359.8
35/506	R00Y_075_050ad	0.75	0.25	0.25	0.75	0.25	0.25	0.25	0.25	389	45.4	70.9	44.8	83.9	32.3
36/324	R00Y_050_050ad	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	389	45.4	70.9	44.8	83.9	32.3
37/342	R50Y_050_050ad	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	59	64.9	28.9	68.6	74.5	67.1
38/360	Y00C_050_050ad	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	89	70.6	-29.7	66.5	72.8	114.0
39/198	Y50C_050_050ad	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	119	0.0	0.0	0.0	0.0	114.0
40/36	G00B_050_050ad	0.0	0.5	0.5	0.0	0.5	0.5	0.0	0.5	149	50.0	-65.0	29.6	71.4	155.5
41/40	G50B_050_050ad	0.0	0.5	0.5	0.0	0.5	0.5	0.0	0.5	210	0.0	0.0	0.0	0.0	238.4
42/4	B00R_050_050ad	0.0	0.5	0.5	0.0	0.5	0.5	0.0	0.5	270	25.0	29.5	-40.4	50.0	306.2
43/328	B50R_050_050ad	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	330	46.1	79.3	-0.2	79.3	359.8
44/324	R00Y_050_050ad	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	389	45.4	70.9	44.8	83.9	32.3
45/0	NW_000ad	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	0.0
46/182	NW_013ad	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	360	1.0	1.0	1.0	1.0	0.0
47/182	NW_025ad	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	360	1.0	1.0	1.0	1.0	0.0
48/273	NW_038ad	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	360	1.0	1.0	1.0	1.0	0.0
49/364	NW_050ad	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	360	1.0	1.0	1.0	1.0	0.0
50/455	NW_065ad	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625	360	1.0	1.0	1.0	1.0	0.0
51/66	NW_080ad	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	360	1.0	1.0	1.0	1.0	0.0
52/66	NW_080ad	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	360	1.0	1.0	1.0	1.0	0.0
53/728	NW_100ad	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	360	1.0	1.0	1.0	1.0	0.0

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

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

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/QE77L0FA.TXT /.PS
application for measurement of offset print output, separate

TUB material: code=rha4ta
ny0* (CMY0)



V L O Y M
http://130.149.60.45/~farbmatrik/QE77/QE77L0FA.TXT /PS; 3D-linearization
F: 3D-linearization QE77/QE77LE30FA.DAT in file (F), page 20/33

HIC*Fid	rgb_Fid	iCr_Fid	hsa_Fid	rgb*Fid	LabCh*Fid	cmv1*sep_Fid	hsa_Nad	rgb_Nad	LabCh*Mad	Mean color difference of this page:	
										0.0	0.0
00	0.0	0.0	360	0.0	24.3	0.0	0.0	0.0	1.0	1.0	0.0
01	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
02	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
03	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
04	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
05	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
07	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
08	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

1-1031931-10

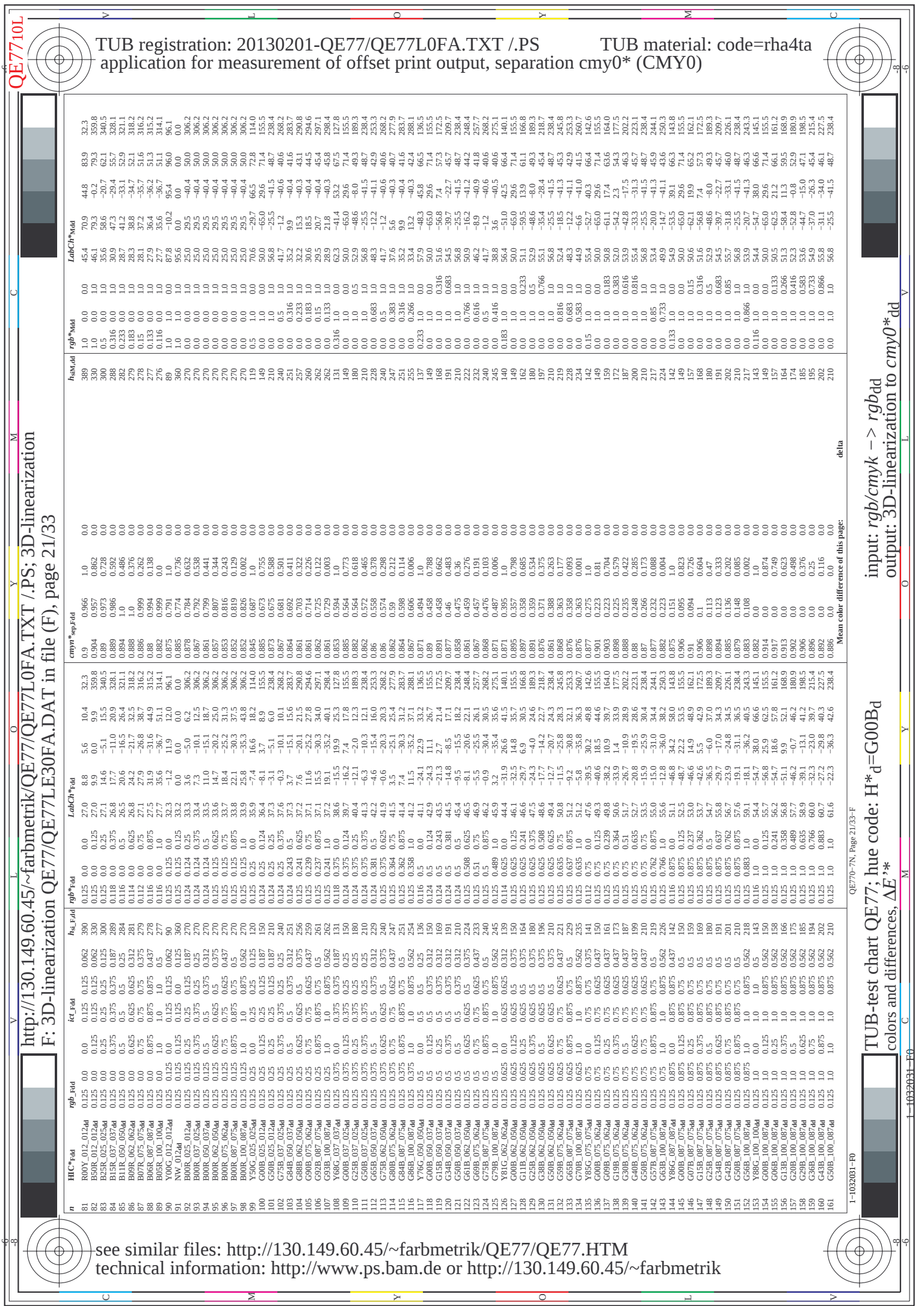
QE770-7N, Page 20/33-F

TUB-test chart QE77; hue code: $H_d^* = G00B_d$
colors and differences. ΔE^*

input: *rgb/cmyk* $\rightarrow$ *rgb*_{dd}
output: 3D-linearization to *cmv0**_{dd}



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/QE77L0FA.TXT / .PS
TUB material: code=rha4ta
application for measurement of offset print output, separation cmy0* (CMY0)

QE7710L

QE7710L

C

C

M

M

Y

Y

O

O

L

L

V

V

C

C

M

M

Y

Y

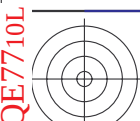
O

O

http://130.149.60.45/~farbmatrik/QE77/QE77L0FA.TXT / .PS; 3D-linearization
F: 3D-linearization QE77/QE77LE30FA.DAT in file (F), page 21/33

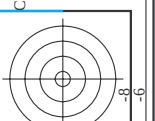
input: rgb/cmyk -> rgbd
output: 3D-linearization to cmy0*dd

n	HVC*Fid	rgb_Fid	icr_Fid	hsa_Fid	rgb*Fid	LabCh*Fid	LabCh*Fid	cmyn*sep-Fid	cmyn*sep-Fid	hsa_Fid	rgb*Fid	LabCh*Fid					
81	B00Y.012.012ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
82	B00Y.012.012ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
83	B25K.025.025ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
84	B15K.037.037ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
85	B11K.050.050ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
86	B09K.062.062ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
87	B07K.075.075ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
88	B06K.087.087ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
89	B05K.100.100ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
90	Y00C.012.012ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
91	NW.012ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
92	B00K.025.012ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
93	B00K.037.025ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
94	B00K.050.037ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
95	B00K.062.050ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
96	B00K.075.062ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
97	B00K.087.075ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
98	B00K.100.087ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
99	Y00C.025.025ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
100	G00B.025.012ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
101	G00B.037.012ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
102	G00B.050.012ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
103	G00B.062.037ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
104	G00B.075.037ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
105	G00B.087.062ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
106	G00B.100.062ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
107	G00B.012.012ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
108	Y00C.037.037ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
109	G00B.037.025ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
110	G00B.050.025ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
111	G00B.062.037ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
112	G00B.075.037ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
113	G00B.087.062ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
114	G00B.100.062ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
115	G00B.012.012ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
116	G00B.037.037ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
117	Y00C.050.050ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
118	G00B.050.037ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
119	G13B.050.037ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
120	G34B.050.037ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
121	G50B.050.037ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
122	G61B.062.050ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
123	G00B.075.062ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
124	G73B.087.075ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
125	G79B.100.087ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
126	Y00C.062.062ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
127	G00B.062.050ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
128	G11B.062.050ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
129	G25B.062.037ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
130	G38B.062.050ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
131	G50B.062.050ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
132	G59B.075.062ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
133	G70B.100.087ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
134	Y05C.075.050ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0.9	0.966	1.0	0.0	45.4	70.9	83.9	32.3
135	Y05C.075.062ad	0.125 0.0	0.125 0.0	0.125 0.0	0.125 0.0	27.0 8.8	5.6	10.4	32.3	0							



TUB registration: 20130201-QE77/QE77L0FA.TXT / .PS
application for measurement of offset print output, separation cmy0* (CMY0)

TUB material: code=rha4ta



C

M

Y

O

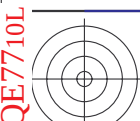
L

V

C

M

Y



see similar files: <http://130.149.60.45/~farbmatrik/QE77/QE77L0FA.TXT> / .PS; 3D-linearization
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

<http://130.149.60.45/~farbmatrik/QE77/QE77L0FA.TXT> / .PS; 3D-linearization
F: 3D-linearization QE77/QE77L0FA.DAT in file (F), page 24/33

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

n	H*Ch*Fid	rgb_Fid	lch_Fid	hsa_Fid	rgb*Fid	LabCh*Fid	cmyk*Fid	cmyn*Fid	hax*Fid	rgb*Fid	LabCh*Fid	delta
324	R050_050_050ad	0.5	0.5	0.5	0.5	0.0	0.0	0.0	389	1.0	0.0	0.0
325	R050_050_050ad	0.5	0.0	0.125	0.5	0.0	0.116	0.567	377	1.0	0.0	0.0
326	R050_050_050ad	0.5	0.0	0.25	0.5	0.0	0.231	0.567	360	1.0	0.0	0.0
327	R050_050_050ad	0.5	0.0	0.375	0.5	0.0	0.346	0.567	342	1.0	0.0	0.0
328	R050_050_050ad	0.5	0.0	0.5	0.5	0.0	0.461	0.567	330	1.0	0.0	0.0
329	R050_050_050ad	0.5	0.0	0.625	0.5	0.0	0.576	0.567	311	1.0	0.0	0.0
330	R050_050_050ad	0.5	0.0	0.75	0.5	0.0	0.691	0.567	300	1.0	0.0	0.0
331	R050_050_050ad	0.5	0.0	0.875	0.5	0.0	0.806	0.567	289	1.0	0.0	0.0
332	R050_050_050ad	0.5	0.0	1.0	1.0	0.0	0.921	0.567	270	1.0	0.0	0.0
333	R050_050_050ad	0.5	0.125	0.125	0.5	0.0	0.031	0.567	389	1.0	0.0	0.0
334	R050_050_050ad	0.5	0.125	0.25	0.5	0.0	0.146	0.567	377	1.0	0.0	0.0
335	R050_050_050ad	0.5	0.125	0.375	0.5	0.0	0.261	0.567	360	1.0	0.0	0.0
336	R050_050_050ad	0.5	0.125	0.5	0.5	0.0	0.376	0.567	342	1.0	0.0	0.0
337	R050_050_050ad	0.5	0.125	0.625	0.5	0.0	0.491	0.567	330	1.0	0.0	0.0
338	R050_050_050ad	0.5	0.125	0.75	0.5	0.0	0.606	0.567	311	1.0	0.0	0.0
339	R050_050_050ad	0.5	0.125	0.875	0.5	0.0	0.721	0.567	300	1.0	0.0	0.0
340	R050_050_050ad	0.5	0.125	1.0	1.0	0.0	0.836	0.567	289	1.0	0.0	0.0
341	R050_050_050ad	0.5	0.25	0.125	0.5	0.0	0.046	0.567	389	1.0	0.0	0.0
342	R050_050_050ad	0.5	0.25	0.25	0.5	0.0	0.161	0.567	377	1.0	0.0	0.0
343	R050_050_050ad	0.5	0.25	0.375	0.5	0.0	0.276	0.567	360	1.0	0.0	0.0
344	R050_050_050ad	0.5	0.25	0.5	0.5	0.0	0.391	0.567	342	1.0	0.0	0.0
345	R050_050_050ad	0.5	0.25	0.625	0.5	0.0	0.506	0.567	330	1.0	0.0	0.0
346	R050_050_050ad	0.5	0.25	0.75	0.5	0.0	0.621	0.567	311	1.0	0.0	0.0
347	R050_050_050ad	0.5	0.25	0.875	0.5	0.0	0.736	0.567	300	1.0	0.0	0.0
348	R050_050_050ad	0.5	0.25	1.0	1.0	0.0	0.851	0.567	289	1.0	0.0	0.0
349	R050_050_050ad	0.5	0.375	0.125	0.5	0.0	0.056	0.567	389	1.0	0.0	0.0
350	R050_050_050ad	0.5	0.375	0.25	0.5	0.0	0.171	0.567	377	1.0	0.0	0.0
351	R050_050_050ad	0.5	0.375	0.375	0.5	0.0	0.286	0.567	360	1.0	0.0	0.0
352	R050_050_050ad	0.5	0.375	0.5	0.5	0.0	0.401	0.567	342	1.0	0.0	0.0
353	R050_050_050ad	0.5	0.375	0.625	0.5	0.0	0.516	0.567	330	1.0	0.0	0.0
354	R050_050_050ad	0.5	0.375	0.75	0.5	0.0	0.631	0.567	311	1.0	0.0	0.0
355	R050_050_050ad	0.5	0.375	0.875	0.5	0.0	0.746	0.567	300	1.0	0.0	0.0
356	R050_050_050ad	0.5	0.375	1.0	1.0	0.0	0.861	0.567	289	1.0	0.0	0.0
357	R050_050_050ad	0.5	0.5	0.125	0.5	0.0	0.071	0.567	389	1.0	0.0	0.0
358	R050_050_050ad	0.5	0.5	0.25	0.5	0.0	0.186	0.567	377	1.0	0.0	0.0
359	R050_050_050ad	0.5	0.5	0.375	0.5	0.0	0.301	0.567	360	1.0	0.0	0.0
360	R050_050_050ad	0.5	0.5	0.5	0.5	0.0	0.416	0.567	342	1.0	0.0	0.0
361	R050_050_050ad	0.5	0.5	0.625	0.5	0.0	0.531	0.567	330	1.0	0.0	0.0
362	R050_050_050ad	0.5	0.5	0.75	0.5	0.0	0.646	0.567	311	1.0	0.0	0.0
363	R050_050_050ad	0.5	0.5	0.875	0.5	0.0	0.761	0.567	300	1.0	0.0	0.0
364	R050_050_050ad	0.5	0.5	1.0	1.0	0.0	0.876	0.567	289	1.0	0.0	0.0
365	R050_050_050ad	0.5	0.625	0.125	0.5	0.0	0.091	0.567	389	1.0	0.0	0.0
366	R050_050_050ad	0.5	0.625	0.25	0.5	0.0	0.206	0.567	377	1.0	0.0	0.0
367	R050_050_050ad	0.5	0.625	0.375	0.5	0.0	0.321	0.567	360	1.0	0.0	0.0
368	R050_050_050ad	0.5	0.625	0.5	0.5	0.0	0.436	0.567	342	1.0	0.0	0.0
369	R050_050_050ad	0.5	0.625	0.625	0.5	0.0	0.551	0.567	330	1.0	0.0	0.0
370	R050_050_050ad	0.5	0.625	0.75	0.5	0.0	0.666	0.567	311	1.0	0.0	0.0
371	R050_050_050ad	0.5	0.625	0.875	0.5	0.0	0.781	0.567	300	1.0	0.0	0.0
372	R050_050_050ad	0.5	0.625	1.0	1.0	0.0	0.896	0.567	289	1.0	0.0	0.0
373	R050_050_050ad	0.5	0.75	0.125	0.5	0.0	0.106	0.567	389	1.0	0.0	0.0
374	R050_050_050ad	0.5	0.75	0.25	0.5	0.0	0.221	0.567	377	1.0	0.0	0.0
375	R050_050_050ad	0.5	0.75	0.375	0.5	0.0	0.336	0.567	360	1.0	0.0	0.0
376	R050_050_050ad	0.5	0.75	0.5	0.5	0.0	0.451	0.567	342	1.0	0.0	0.0
377	R050_050_050ad	0.5	0.75	0.625	0.5	0.0	0.566	0.567	330	1.0	0.0	0.0
378	R050_050_050ad	0.5	0.75	0.75	0.5	0.0	0.681	0.567	311	1.0	0.0	0.0
379	R050_050_050ad	0.5	0.75	0.875	0.5	0.0	0.796	0.567	300	1.0	0.0	0.0
380	R050_050_050ad	0.5	0.75	1.0	1.0	0.0	0.911	0.567	289	1.0	0.0	0.0
381	R050_050_050ad	0.5	0.875	0.125	0.5	0.0	0.116	0.567	389	1.0	0.0	0.0
382	R050_050_050ad	0.5	0.875	0.25	0.5	0.0	0.231	0.567	377	1.0	0.0	0.0
383	R050_050_050ad	0.5	0.875	0.375	0.5	0.0	0.346	0.567	360	1.0	0.0	0.0
384	R050_050_050ad	0.5	0.875	0.5	0.5	0.0	0.461	0.567	342	1.0	0.0	0.0
385	R050_050_050ad	0.5	0.875	0.625	0.5	0.0	0.576	0.567	330	1.0	0.0	0.0
386	R050_050_050ad	0.5	0.875	0.75	0.5	0.0	0.691	0.567	311	1.0	0.0	0.0
387	R050_050_050ad	0.5	0.875	0.875	0.5	0.0	0.806	0.567	300	1.0	0.0	0.0
388	R050_050_050ad	0.5	0.875	1.0	1.0	0.0	0.921	0.567	289	1.0	0.0	0.0
389	R050_050_050ad	0.5	0.875	0.125	0.5	0.0	0.031	0.567	389	1.0	0.0	0.0
390	R050_050_050ad	0.5	0.875	0.25	0.5	0.0	0.146	0.567	377	1.0	0.0	0.0
391	R050_050_050ad	0.5	0.875	0.375	0.5	0.0	0.261	0.567	360	1.0	0.0	0.0
392	R050_050_050ad	0.5	0.875	0.5	0.5	0.0	0.376	0.567	342	1.0	0.0	0.0
393	R050_050_050ad	0.5	0.875	0.625	0.5	0.0	0.491	0.567	330	1.0	0.0	0.0
394	R050_050_050ad	0.5	0.875	0.75	0.5	0.0	0.606	0.567	311	1.0	0.0	0.0
395	R050_050_050ad	0.5	0.875	0.875	0.5	0.0	0.721	0.567	300	1.0	0.0	0.0
396	R050_050_050ad	0.5	0.875	1.0	1.0	0.0	0.836	0.567	289	1.0	0.0	0.0
397	R050_050_050ad	0.5	0.875	0.125	0.5	0.0	0.046	0.567	389	1.0	0.0	0.0
398	R050_050_050ad	0.5	0.875	0.25	0.5	0.0	0.161	0.567	377	1.0	0.0	0.0
399	R050_050_050ad	0.5	0.875	0.375	0.5	0.0	0.276	0.567	360	1.0	0.0	0.0
400	R050_050_050ad	0.5	0.875	0.5	0.5	0.0	0.391	0.567	342	1.0	0.0	0.0
401	R050_050_050ad	0.5	0.875	0.625	0.5	0.0	0.506	0.567	330	1.0	0.0	0.0
402	R050_050_050ad	0.5	0.875	0.75	0.5	0.0	0.621	0.567	311	1.0	0.0	0.0
403	R050_050_050ad	0.5	0.875	0.875	0.5	0.0	0.736	0.567	300	1.0	0.0	0.0
404	R050_050_050ad	0.5	0.875	1.0	1.0	0.0	0.851	0.567	289	1.0	0.0	0.0

QE770-7N, Page 24/33-F

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

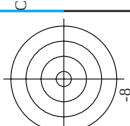
I-1032331-F0





TUB registration: 20130201-QE77/QE77L0FA.TXT /.PS
application for measurement of offset print output, separate

TUB material: code=rha4ta
ny0* (CMY0)



5~farbmatrik/QE77/QE77L0FA.TXT /PS; 3D-linearization
QE77/QE77LE30FA.DAT in file (F), page 25/33

n	HIC ^{Fold}	rgb ^{Fold}	ict ^{Fold}	hs ^{Fold}	rgb ^{Fold}	LabCh ^{Fold}	cmv1 ^{sep,Fold}	hs ^{Mid}	rgb ^{Mid}	LabCh ^{Mid}	δ
405	R0Y0_062_0624d	0.625 0.0	0.625 0.625 0.312	390	0.625 0.0	37.5	0.936	389	1.0	0.0	0.0
406	R0Y0_062_0624d	0.625 0.0	0.625 0.625 0.312	379	0.625 0.0	37.6	0.445	380	1.0	0.0	0.0
407	R1Y1_062_0624d	0.625 0.0	0.625 0.625 0.312	367	0.625 0.0	37.7	0.45	369	1.0	0.0	0.0
408	R0Y0_062_0624d	0.625 0.0	0.625 0.625 0.312	353	0.625 0.0	37.8	0.448	367	1.0	0.0	0.0
409	B0R0_062_0624d	0.625 0.0	0.625 0.625 0.312	341	0.625 0.0	37.8	0.448	352	1.0	0.0	0.0
410	B5R0_062_0624d	0.625 0.0	0.625 0.625 0.312	330	0.625 0.0	37.8	0.451	339	1.0	0.0	0.0
411	B4R2_075_0754d	0.625 0.0	0.625 0.625 0.312	321	0.637 0.0	37.9	0.451	330	1.0	0.0	0.0
412	B3R0_062_0624d	0.625 0.0	0.625 0.625 0.312	314	0.641 0.0	37.9	0.451	322	1.0	0.0	0.0
413	B3R1_100_1004d	0.625 0.0	0.625 0.625 0.312	308	0.633 0.0	38.1	0.451	315	1.0	0.0	0.0
414	R1Y0_062_0624d	0.625 0.125	0.625 0.625 0.312	401	0.625 0.114	40.1	0.441	39	1.0	0.0	0.0
415	R0Y0_062_0504d	0.625 0.125	0.625 0.625 0.312	390	0.625 0.125 0.125	43.8	0.418	379	1.0	0.0	0.0
416	R2Y0_062_0504d	0.625 0.125	0.625 0.625 0.312	376	0.625 0.125 0.125	43.9	0.418	387	1.0	0.0	0.0
417	R0Y0_062_0504d	0.625 0.125	0.625 0.625 0.312	364	0.625 0.125 0.125	44.0	0.424	360	1.0	0.0	0.0
418	B6R1_062_0504d	0.625 0.125	0.625 0.625 0.312	344	0.625 0.125 0.125	44.0	0.424	342	1.0	0.0	0.0
419	B4R0_062_0504d	0.625 0.125	0.625 0.625 0.312	330	0.625 0.125 0.125	44.1	0.424	330	1.0	0.0	0.0
420	B4R0_075_0624d	0.625 0.125	0.625 0.625 0.312	319	0.635 0.125 0.125	44.9	0.389	320	1.0	0.0	0.0
421	B3R0_062_0624d	0.625 0.125	0.625 0.625 0.312	311	0.637 0.125 0.125	44.5	0.384	311	1.0	0.0	0.0
422	B2R0_100_0874d	0.625 0.125	0.625 0.625 0.312	305	0.637 0.125 0.125	44.5	0.384	305	1.0	0.0	0.0
423	R3Y0_062_0624d	0.625 0.125	0.625 0.625 0.312	53	0.625 0.239 0.0	46.3	0.443	52	1.0	0.0	0.0
424	R2Y0_062_0624d	0.625 0.125	0.625 0.625 0.312	44	0.625 0.241 0.125	47.6	0.443	45	1.0	0.0	0.0
425	R0Y0_062_0374d	0.625 0.25	0.625 0.375 0.437	390	0.625 0.25 0.25	50.1	0.396	389	1.0	0.0	0.0
426	R1Y0_062_0374d	0.625 0.25	0.625 0.375 0.437	371	0.625 0.25 0.25	50.2	0.402	371	1.0	0.0	0.0
427	B6R0_062_0374d	0.625 0.25	0.625 0.375 0.437	349	0.625 0.25 0.25	50.2	0.402	348	1.0	0.0	0.0
428	B5R0_062_0374d	0.625 0.25	0.625 0.375 0.437	330	0.625 0.25 0.25	50.3	0.402	330	1.0	0.0	0.0
429	B3R0_075_0604d	0.625 0.25	0.625 0.375 0.437	316	0.635 0.25 0.25	51.0	0.418	317	1.0	0.0	0.0
430	B3R0_062_0624d	0.625 0.25	0.625 0.375 0.437	307	0.635 0.25 0.25	51.0	0.418	307	1.0	0.0	0.0
431	B3R0_062_0624d	0.625 0.25	0.625 0.375 0.437	300	0.635 0.25 0.25	51.0	0.418	300	1.0	0.0	0.0
432	B6Y0_062_0624d	0.625 0.375	0								

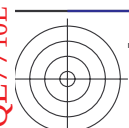
1-1032431-F0

QE770-7N, Page 25/33-F

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

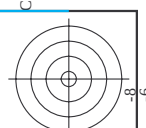
TUB-test chart QE77; hue code: H^{*}_d=G00B_d
colors and differences, ΔE^*





TUB registration: 20130201-QE77/QE77L0FA.TXT /.PS
application for measurement of offset print output, separate

TUB material: code=rha4ta
ny0* (CMY0)



8.3

C

M

2

5

[illegible][illegible]

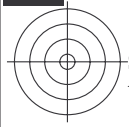
http://130.149.60.45/~farbmatrik/QE77/QE77L0FA.TXT /PS; 3D-linearization
F: 3D-linearization QE77/QE77LE30FA.DAT in file (F), page 26/33

<i>n</i>	HIC _{Fold}	<i>rgb_{Fold}</i>	<i>lcr_{Fold}</i>	<i>h_{g_{Fold}}</i>	<i>rgb_{Fold}</i>	<i>LabCh_{Fold}</i>	<i>cmym^{sep}_{Fold}</i>	<i>h_{ax_{Fold}}</i>	<i>rgb_{Fold}</i>	<i>LabCh_{Fold}</i>
486	R00Y_075_075ad	0.75	0.0	0.75	0.75	0.0	0.0	389	1.0	0.0
487	R05Y_075_075ad	0.75	0.125	0.75	0.75	0.0	0.112	382	1.0	0.0
488	R10Y_075_075ad	0.75	0.25	0.75	0.75	0.0	0.237	371	1.0	0.0
489	R00Y_075_075ad	0.75	0.375	0.75	0.75	0.0	0.375	360	1.0	0.0
490	B65R_075_075ad	0.75	0.0	0.75	0.75	0.0	0.512	348	1.0	0.0
491	B57R_075_075ad	0.75	0.0	0.75	0.75	0.0	0.637	337	1.0	0.0
492	B43R_087_087ad	0.75	0.0	0.75	0.75	0.0	0.758	330	1.0	0.0
493	B43R_087_087ad	0.75	0.0	0.875	0.875	0.437	0.758	322	0.866	0.0
494	B38R_100_100ad	0.75	0.0	1.0	1.0	0.5	0.766	317	0.766	0.0
495	R15Y_075_075ad	0.75	0.125	0.75	0.75	0.112	0.0	316	0.0	0.15
496	R00Y_075_062ad	0.75	0.125	0.75	0.75	0.125	0.0	309	1.0	0.0
497	R31Y_075_062ad	0.75	0.125	0.75	0.75	0.125	0.0	300	1.0	0.0
498	R11Y_075_062ad	0.75	0.125	0.75	0.75	0.125	0.0	291	1.0	0.0
499	B69Y_075_062ad	0.75	0.125	0.75	0.75	0.125	0.0	282	1.0	0.0
500	B50R_075_062ad	0.75	0.125	0.75	0.75	0.125	0.0	273	1.0	0.0
501	B50R_075_062ad	0.75	0.125	0.75	0.75	0.125	0.0	264	1.0	0.0
502	B42R_087_087ad	0.75	0.125	0.875	0.75	0.125	0.0	255	0.885	0.0
503	B36R_100_087ad	0.75	0.125	1.0	0.766	0.125	0.0	246	0.885	0.0
504	R18Y_075_075ad	0.75	0.25	0.75	0.75	0.237	0.0	237	0.885	0.0
505	R18Y_075_062ad	0.75	0.25	0.75	0.75	0.237	0.0	228	0.885	0.0
506	R00Y_075_050ad	0.75	0.25	0.75	0.75	0.25	0.0	219	0.885	0.0
507	R26Y_075_050ad	0.75	0.25	0.75	0.75	0.25	0.0	210	0.885	0.0
508	R00Y_075_050ad	0.75	0.25	0.75	0.75	0.25	0.0	201	0.885	0.0
509	B61R_075_050ad	0.75	0.25	0.75	0.75	0.25	0.0	192	0.885	0.0
510	B50R_075_050ad	0.75	0.25	0.75	0.75	0.25	0.0	183	0.885	0.0
511	B40R_087_062ad	0.75	0.25	0.875	0.625	0.562	0.319	174	0.885	0.0
512	B34R_100_075ad	0.75	0.25	1.0	0.762	0.25	0.0	165	0.885	0.0
513	B30Y_075_075ad	0.75	0.375	0.75	0.75	0.375	0.0	156	0.885	0.0
514	B26Y_075_075ad	0.75	0.375	0.75	0.75	0.375	0.0	147	0.885	0.0
515	R23Y_075_062ad	0.75	0.375	0.75	0.75	0.375	0.0	138	0.885	0.0
516	R20Y_075_062ad	0.75	0.375	0.75	0.75	0.375	0.0	129	0.885	0.0
517	R18Y_075_037ad	0.75	0.375	0.75	0.75	0.375	0.0	120	0.885	0.0
518	B65R_075_037ad	0.75	0.375	0.75	0.75	0.375	0.0	111	0.885	0.0
519	B50R_075_037ad	0.75	0.375	0.75	0.75	0.375	0.0	102	0.885	0.0
520	B38R_087_050ad	0.75	0.375	0.875	0.75	0.375	0.0	93	0.885	0.0
521	R68Y_075_062ad	0.75	0.375	1.0	0.762	0.375	0.0	84	0.885	0.0

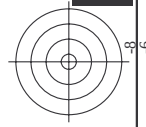
[illegible]

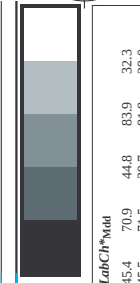
input: *rgb/cmyk* $\rightarrow$ *rgb*_{dd}
output: 3D-linearization to *cmy0**_{dd}

TUB-test chart QE77; hue code: H^{*}_d=G00B_d
colors and differences, ΔE^*



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/QE77L0FA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separation cmy0* (CMY0)

http://130.149.60.45/~farbmatrik/QE77/QE77L0FA.TXT /.PS; 3D-linearization
F: 3D-linearization QE77/QE77LE30FA.DAT in file (F), page 27/33

n	HC*Fid	rgb_Fid	icr_Fid	hsa_Fid	rgb*Fid	LabCh*Fid	cmyn*sep_Fid	cmyn*Fid	haxn_id	rgb*Fid	LabCh*Fid	delta
567	R00Y,087,087,ad	0.875, 0.0	0.875, 0.875, 0.437	390	0.875, 0.0	0.0	42.8	62.0	39.2	73.4	0.983	0.0
568	R36Y,087,087,ad	0.875, 0.0	0.875, 0.875, 0.437	382	0.875, 0.0	0.116	42.9	62.0	34.7	71.6	0.983	0.0
569	R23Y,087,087,ad	0.875, 0.0	0.875, 0.875, 0.437	374	0.875, 0.0	0.233	43.0	63.2	29.5	68.1	0.983	0.0
570	R00Y,087,087,ad	0.875, 0.0	0.875, 0.875, 0.437	365	0.875, 0.0	0.364	43.1	64.2	22.7	68.1	0.983	0.0
571	B70K,087,087,ad	0.875, 0.0	0.875, 0.875, 0.437	355	0.875, 0.0	0.51	43.2	65.8	14.8	67.4	0.983	0.0
572	B63K,087,087,ad	0.875, 0.0	0.875, 0.875, 0.437	346	0.875, 0.0	0.641	43.2	67.4	8.3	67.8	0.983	0.0
573	B56K,087,087,ad	0.875, 0.0	0.875, 0.875, 0.437	338	0.875, 0.0	0.758	43.2	68.4	3.8	68.5	0.983	0.0
574	B50K,087,087,ad	0.875, 0.0	0.875, 0.875, 0.437	330	0.875, 0.0	0.875	43.4	69.4	-0.1	69.4	0.983	0.0
575	B44K,100,100,ad	0.875, 0.0	0.875, 0.875, 0.437	323	0.875, 0.0	1.0	44.3	75.4	-4.7	75.6	0.983	0.0
576	R13Y,087,087,ad	0.875, 0.125	0.875, 0.875, 0.437	38	0.875, 0.116	0.0	46.1	54.3	43.6	69.7	0.871	0.0
577	R00Y,087,087,ad	0.875, 0.125	0.875, 0.875, 0.437	38	0.875, 0.116	0.0	46.1	54.3	43.6	69.7	0.871	0.0
578	R36Y,087,087,ad	0.875, 0.125	0.875, 0.875, 0.437	381	0.875, 0.125	0.125	49.1	53.2	33.6	62.9	0.871	0.0
579	R23Y,087,087,ad	0.875, 0.125	0.875, 0.875, 0.437	374	0.875, 0.125	0.233	49.1	53.2	29.2	61.1	0.871	0.0
580	R00Y,087,087,ad	0.875, 0.125	0.875, 0.875, 0.437	365	0.875, 0.125	0.364	49.1	53.2	24.5	59.3	0.871	0.0
581	B70K,087,087,ad	0.875, 0.125	0.875, 0.875, 0.437	355	0.875, 0.125	0.51	49.4	55.6	15.8	57.8	0.871	0.0
582	B63K,087,087,ad	0.875, 0.125	0.875, 0.875, 0.437	346	0.875, 0.125	0.641	49.4	55.6	8.9	58.0	0.871	0.0
583	B56K,087,087,ad	0.875, 0.125	0.875, 0.875, 0.437	338	0.875, 0.125	0.758	49.4	55.6	3.7	58.6	0.871	0.0
584	B50K,087,087,ad	0.875, 0.125	0.875, 0.875, 0.437	330	0.875, 0.125	0.875	49.4	55.6	-0.1	59.4	0.871	0.0
585	B44K,100,100,ad	0.875, 0.125	0.875, 0.875, 0.437	323	0.875, 0.125	1.0	50.5	65.5	-4.6	75.6	0.871	0.0
586	R13Y,087,087,ad	0.875, 0.25	0.875, 0.875, 0.437	46	0.875, 0.233	0.0	50.6	44.1	49.4	66.2	0.753	0.0
587	R00Y,087,087,ad	0.875, 0.25	0.875, 0.875, 0.437	46	0.875, 0.233	0.0	50.6	44.1	49.4	66.2	0.753	0.0
588	R36Y,087,087,ad	0.875, 0.25	0.875, 0.875, 0.437	390	0.875, 0.25	0.116	52.4	45.5	38.0	59.3	0.753	0.0
589	R23Y,087,087,ad	0.875, 0.25	0.875, 0.875, 0.437	382	0.875, 0.25	0.233	52.4	45.5	34.0	57.4	0.753	0.0
590	R00Y,087,087,ad	0.875, 0.25	0.875, 0.875, 0.437	374	0.875, 0.25	0.364	52.4	45.5	28.0	55.4	0.753	0.0
591	B70K,087,087,ad	0.875, 0.25	0.875, 0.875, 0.437	365	0.875, 0.25	0.51	52.4	45.5	20.0	53.6	0.753	0.0
592	B63K,087,087,ad	0.875, 0.25	0.875, 0.875, 0.437	355	0.875, 0.25	0.641	52.4	45.5	14.8	51.7	0.753	0.0
593	B56K,087,087,ad	0.875, 0.25	0.875, 0.875, 0.437	346	0.875, 0.25	0.758	52.4	45.5	8.9	50.0	0.753	0.0
594	B50K,087,087,ad	0.875, 0.25	0.875, 0.875, 0.437	338	0.875, 0.25	0.875	52.4	45.5	3.7	48.1	0.753	0.0
595	B44K,100,100,ad	0.875, 0.25	0.875, 0.875, 0.437	323	0.875, 0.25	1.0	52.4	45.5	-0.1	59.4	0.753	0.0
596	R13Y,087,087,ad	0.875, 0.375	0.875, 0.875, 0.437	55	0.875, 0.364	0.0	56.5	32.4	56.4	64.9	0.63	0.0
597	R00Y,087,087,ad	0.875, 0.375	0.875, 0.875, 0.437	55	0.875, 0.364	0.0	56.5	32.4	56.4	64.9	0.63	0.0
598	R36Y,087,087,ad	0.875, 0.375	0.875, 0.875, 0.437	491	0.875, 0.364	0.116	58.9	36.1	44.4	56.2	0.63	0.0
599	R23Y,087,087,ad	0.875, 0.375	0.875, 0.875, 0.437	482	0.875, 0.364	0.233	58.9	36.1	40.4	54.3	0.63	0.0
600	R00Y,087,087,ad	0.875, 0.375	0.875, 0.875, 0.437	474	0.875, 0.364	0.364	58.9	36.1	36.1	52.4	0.63	0.0
601	B70K,087,087,ad	0.875, 0.375	0.875, 0.875, 0.437	465	0.875, 0.364	0.51	58.9	36.1	28.0	50.5	0.63	0.0
602	B63K,087,087,ad	0.875, 0.375	0.875, 0.875, 0.437	456	0.875, 0.364	0.641	58.9	36.1	20.0	48.1	0.63	0.0
603	B56K,087,087,ad	0.875, 0.375	0.875, 0.875, 0.437	447	0.875, 0.364	0.758	58.9	36.1	14.8	46.2	0.63	0.0
604	B50K,087,087,ad	0.875, 0.375	0.875, 0.875, 0.437	438	0.875, 0.364	0.875	58.9	36.1	8.9	44.4	0.63	0.0
605	R36Y,087,087,ad	0.875, 0.5	0.875, 0.875, 0.437	53	0.875, 0.489	0.0	63.1	24.7	39.1	46.2	0.512	0.0
606	R23Y,087,087,ad	0.875, 0.5	0.875, 0.875, 0.437	53	0.875, 0.489	0.116	63.1	24.7	35.1	44.4	0.512	0.0
607	R00Y,087,087,ad	0.875, 0.5	0.875, 0.875, 0.437	44	0.875, 0.489	0.233	63.1	24.7	31.1	42.8	0.512	0.0
608	B70K,087,087,ad	0.875, 0.5	0.875, 0.875, 0.437	390	0.875, 0.489	0.364	63.1	24.7	26.6	40.4	0.512	0.0
609	B63K,087,087,ad	0.875, 0.5	0.875, 0.875, 0.437	381	0.875, 0.489	0.51	63.1	24.7	22.6	38.1	0.512	0.0
610	B56K,087,087,ad	0.875, 0.5	0.875, 0.875, 0.437	372	0.875, 0.489	0.641	63.1	24.7	17.1	35.6	0.512	0.0
611	B50K,087,087,ad	0.875, 0.5	0.875, 0.875, 0.437	363	0.875, 0.489	0.758	63.1	24.7	12.6	33.1	0.512	0.0
612	B44K,100,100,ad	0.875, 0.5	0.875, 0.875, 0.437	354	0.875, 0.489	0.875	63.1	24.7	7.6	30.6	0.512	0.0
613	R13Y,087,087,ad	0.875, 0.625	0.875, 0.875, 0.437	71	0.875, 0.641	0.0	70.5	6.0	72.6	72.9	0.512	0.0
614	R00Y,087,087,ad	0.875, 0.625	0.875, 0.875, 0.437	71	0.875, 0.641	0.0	70.5	6.0	72.6	72.9	0.512	0.0
615	R36Y,087,087,ad	0.875, 0.625	0.875, 0.875, 0.437	60	0.875, 0.637	0.116	71.1	8.2	60.3	60.8	0.512	0.0
616	R23Y,087,087,ad	0.875, 0.625	0.875, 0.875, 0.437	51	0.875, 0.637	0.233	71.1	8.2	56.3	56.8	0.512	0.0
617	R00Y,087,087,ad	0.875, 0.625	0.875, 0.875, 0.437	42	0.875, 0.637	0.364	71.1	8.2	51.3	51.8	0.512	0.0
618	B70K,087,087,ad	0.875, 0.625	0.875, 0.875, 0.437	390	0.875, 0.625	0.375	71.1	14.4	47.9	47.8	0.512	0.0
619	B63K,087,087,ad	0.875, 0.625	0.875, 0.875, 0.437	381	0.875, 0.625	0.51	71.1	14.4	43.9	43.8	0.512	0.0
620	B56K,087,087,ad	0.875, 0.625	0.875, 0.875, 0.437	372	0.875, 0.625	0.641	71.1	14.4	39.9	39.8	0.512	0.0
621	B50K,087,087,ad	0.875, 0.625	0.875, 0.875, 0.437	363	0.875, 0.625	0.758	71.1	14.4	35.9	35.8	0.512	0.0
622	R13Y,087,087,ad	0.875, 0.75	0.875, 0.875, 0.437	82	0.875, 0.625	0.625	74.2	19.8	5.2	19.8	0.512	0.0
623	R00Y,087,087,ad	0.875, 0.75	0.875, 0.875, 0.437	82	0.875, 0.625	0.625	74.2	19.8	5.2	19.8	0.512	0.0
624	R36Y,087,087,ad	0.875, 0.75	0.875, 0.875, 0.437	71	0.875, 0.625	0.116	75.7	2.4	78.6	78.6	0.512	0.0
625	R23Y,087,087,ad	0.875, 0.75	0.875, 0.875, 0.437	62	0.875, 0.625	0.233	75.7	2.4	74.6	74.6	0.512	0.0
626	R00Y,087,087,ad	0.875, 0.75	0.875, 0.875, 0.437	53	0.875, 0.625	0.364	75.7	2.4	70.6	70.6	0.512	0.0
627	B70K,087,087,ad	0.875, 0.75	0.875, 0.875, 0.437	44	0.875, 0.625	0.51	75.7	2.4	66.7	66.7	0.512	0.0
628	B63K,087,087,ad	0.875, 0.75	0.875, 0.875, 0.437	35	0.875, 0.625	0.641	75.7	2.4	62.7	62.7	0.512	0.0
629	B56K,087,087,ad	0.875, 0.75	0.875, 0.875, 0.437	26	0.875, 0.625	0.758	75.7	2.4	58.			

TUB registration: 20130201-QE77/QE77L0FA.TXT /.PS TUB material: code=rha4ta
application for measurement of offset print output, separation cmy0* (CMY0)

n	HVC-Fid	rgb_Fid	icr_Fid	hsa_Fid	rgb_Fid	LabCh-Fid	cmy0*_sep_Fid	rgb_Fid	hsa_Fid	LabCh-Fid	Mean color difference of this page:	delta
648	R00Y_100_100ad	1.0	0.0	0.0	0.0	45.4	70.9	44.8	83.9	32.3	0.0	0.0
649	R38Y_100_100ad	1.0	0.0	0.0	0.0	45.5	71.4	40.4	82.1	29.5	0.0	0.0
650	R16Y_100_100ad	1.0	0.0	0.0	0.0	45.6	72.1	35.3	80.3	26.1	0.0	0.0
651	R23Y_100_100ad	1.0	0.0	0.0	0.0	45.8	72.9	28.7	78.4	21.5	0.0	0.0
652	R00Y_100_100ad	1.0	0.0	0.0	0.0	45.9	74.2	21.1	77.1	15.9	0.0	0.0
653	B68R_100_100ad	1.0	0.0	0.0	0.0	46.0	75.7	14.4	77.1	10.8	0.0	0.0
654	B61R_100_100ad	1.0	0.0	0.0	0.0	46.1	77.3	8.0	77.7	5.9	0.0	0.0
655	B55R_100_100ad	1.0	0.0	0.0	0.0	46.2	79.3	3.8	78.4	2.8	0.0	0.0
656	B50R_100_100ad	1.0	0.0	0.0	0.0	46.3	81.8	0.0	80.2	0.0	0.0	0.0
657	R11Y_100_100ad	1.0	0.0	0.0	0.0	46.4	84.3	-0.2	79.3	359.8	0.0	0.0
658	R00Y_100_097ad	1.0	0.875	0.562	390	46.5	86.3	49.1	80.2	37.7	0.0	0.0
659	R38Y_100_097ad	1.0	0.875	0.562	382	46.6	88.3	43.1	81.8	32.3	0.0	0.0
660	R16Y_100_097ad	1.0	0.875	0.562	374	46.7	90.3	37.1	83.9	26.1	0.0	0.0
661	R23Y_100_097ad	1.0	0.875	0.562	365	46.8	92.3	32.3	86.3	21.5	0.0	0.0
662	B68R_100_097ad	1.0	0.875	0.562	355	46.9	94.3	27.1	88.3	15.9	0.0	0.0
663	B61R_100_097ad	1.0	0.875	0.562	346	47.0	96.3	21.1	90.3	10.8	0.0	0.0
664	B55R_100_097ad	1.0	0.875	0.562	338	47.1	98.3	15.9	92.3	5.9	0.0	0.0
665	B50R_100_097ad	1.0	0.875	0.562	330	47.2	100.3	10.8	94.3	2.8	0.0	0.0
666	R23Y_100_100ad	1.0	0.875	0.562	322	47.3	102.3	5.9	96.3	0.0	0.0	0.0
667	R11Y_100_100ad	1.0	0.875	0.562	314	47.4	104.3	0.0	98.3	359.8	0.0	0.0
668	R00Y_100_075ad	1.0	0.875	0.625	390	47.5	106.3	49.1	81.8	32.3	0.0	0.0
669	R38Y_100_075ad	1.0	0.875	0.625	382	47.6	108.3	43.1	83.9	26.1	0.0	0.0
670	R16Y_100_075ad	1.0	0.875	0.625	374	47.7	110.3	37.1	86.3	21.5	0.0	0.0
671	R23Y_100_075ad	1.0	0.875	0.625	365	47.8	112.3	32.3	88.3	15.9	0.0	0.0
672	B68R_100_075ad	1.0	0.875	0.625	355	47.9	114.3	27.1	90.3	10.8	0.0	0.0
673	B61R_100_075ad	1.0	0.875	0.625	346	48.0	116.3	21.1	92.3	5.9	0.0	0.0
674	B55R_100_075ad	1.0	0.875	0.625	338	48.1	118.3	15.9	94.3	2.8	0.0	0.0
675	B50R_100_075ad	1.0	0.875	0.625	330	48.2	120.3	10.8	96.3	0.0	0.0	0.0
676	R23Y_100_100ad	1.0	0.875	0.625	322	48.3	122.3	5.9	98.3	359.8	0.0	0.0
677	R11Y_100_100ad	1.0	0.875	0.625	314	48.4	124.3	0.0	100.3	32.3	0.0	0.0
678	R00Y_100_050ad	1.0	0.875	0.625	390	48.5	126.3	49.1	83.9	26.1	0.0	0.0
679	R38Y_100_050ad	1.0	0.875	0.625	382	48.6	128.3	43.1	86.3	21.5	0.0	0.0
680	R16Y_100_050ad	1.0	0.875	0.625	374	48.7	130.3	37.1	88.3	15.9	0.0	0.0
681	R23Y_100_050ad	1.0	0.875	0.625	365	48.8	132.3	32.3	90.3	10.8	0.0	0.0
682	B68R_100_050ad	1.0	0.875	0.625	355	48.9	134.3	27.1	92.3	5.9	0.0	0.0
683	B61R_100_050ad	1.0	0.875	0.625	346	49.0	136.3	21.1	94.3	2.8	0.0	0.0
684	B55R_100_050ad	1.0	0.875	0.625	338	49.1	138.3	15.9	96.3	0.0	0.0	0.0
685	B50R_100_050ad	1.0	0.875	0.625	330	49.2	140.3	10.8	98.3	359.8	0.0	0.0
686	R23Y_100_075ad	1.0	0.875	0.625	322	49.3	142.3	5.9	100.3	32.3	0.0	0.0
687	R16Y_100_075ad	1.0	0.875	0.625	314	49.4	144.3	0.0	102.3	26.1	0.0	0.0
688	R00Y_100_050ad	1.0	0.875	0.625	390	49.5	146.3	49.1	86.3	21.5	0.0	0.0
689	R38Y_100_050ad	1.0	0.875	0.625	382	49.6	148.3	43.1	88.3	15.9	0.0	0.0
690	R16Y_100_050ad	1.0	0.875	0.625	374	49.7	150.3	37.1	90.3	10.8	0.0	0.0
691	B68R_100_050ad	1.0	0.875	0.625	365	49.8	152.3	32.3	92.3	5.9	0.0	0.0
692	B61R_100_050ad	1.0	0.875	0.625	355	49.9	154.3	27.1	94.3	2.8	0.0	0.0
693	B55R_100_050ad	1.0	0.875	0.625	346	50.0	156.3	21.1	96.3	0.0	0.0	0.0
694	B50R_100_050ad	1.0	0.875	0.625	338	50.1	158.3	15.9	98.3	359.8	0.0	0.0
695	R23Y_100_075ad	1.0	0.875	0.625	322	50.2	160.3	5.9	100.3	32.3	0.0	0.0
696	R16Y_100_075ad	1.0	0.875	0.625	314	50.3	162.3	0.0	102.3	26.1	0.0	0.0
697	R00Y_100_050ad	1.0	0.875	0.625	390	50.4	164.3	49.1	90.3	21.5	0.0	0.0
698	R38Y_100_050ad	1.0	0.875	0.625	382	50.5	166.3	43.1	92.3	15.9	0.0	0.0
699	R16Y_100_050ad	1.0	0.875	0.625	374	50.6	168.3	37.1	94.3	10.8	0.0	0.0
700	B68R_100_050ad	1.0	0.875	0.625	365	50.7	170.3	32.3	96.3	5.9	0.0	0.0
701	B61R_100_050ad	1.0	0.875	0.625	355	50.8	172.3	27.1	98.3	2.8	0.0	0.0
702	B55R_100_050ad	1.0	0.875	0.625	346	50.9	174.3	21.1	100.3	0.0	0.0	0.0
703	B50R_100_050ad	1.0	0.875	0.625	338	51.0	176.3	15.9	102.3	359.8	0.0	0.0
704	R23Y_100_075ad	1.0	0.875	0.625	322	51.1	178.3	5.9	104.3	32.3	0.0	0.0
705	R16Y_100_075ad	1.0	0.875	0.625	314	51.2	180.3	0.0	106.3	26.1	0.0	0.0
706	R00Y_100_050ad	1.0	0.875	0.625	390	51.3	182.3	49.1	96.3	21.5	0.0	0.0
707	R38Y_100_050ad	1.0	0.875	0.625	382	51.4	184.3	43.1	98.3	15.9	0.0	0.0
708	R16Y_100_050ad	1.0	0.875	0.625	374	51.5	186.3	37.1	100.3	10.8	0.0	0.0
709	B68R_100_050ad	1.0	0.875	0.625	365	51.6	188.3	32.3	102.3	5.9	0.0	0.0
710	B61R_100_050ad	1.0	0.875	0.625	355	51.7	190.3	27.1	104.3	2.8	0.0	0.0
711	B55R_100_050ad	1.0	0.875	0.625	346	51.8	192.3	21.1	106.3	0.0	0.0	0.0
712	B50R_100_050ad	1.0	0.875	0.625	338	51.9	194.3	15.9	108.3	359.8	0.0	0.0
713	R23Y_100_075ad	1.0	0.875	0.625	322	52.0	196.3	5.9	110.3	32.3	0.0	0.0
714	R16Y_100_075ad	1.0	0.875	0.625	314	52.1	198.3	0.0	112.3	26.1	0.0	0.0
715	R00Y_100_050ad	1.0	0.875	0.625	390	52.2	200.3	49.1	102.3	21.5	0.0	0.0
716	R38Y_100_050ad	1.0	0.875	0.625	382	52.3	202.3	43.1	104.3	15.9	0.0	0.0
717	R16Y_100_050ad	1.0	0.875	0.625	374	52.4	204.3	37.1	106.3	10.8	0.0	0.0
718	B68R_100_050ad	1.0	0.875	0.625	365	52.5	206.3	32.3	108.3	5.9	0.0	0.0
719	B61R_100_050ad	1.0	0.875	0.625	355	52.6	208.3	27.1	110.3	2.8	0.0	0.0
720	B55R_100_050ad	1.0	0.875	0.625	346	52.7	210.3	21.1	112.3	0.0	0.0	0.0
721	B50R_100_050ad	1.0	0.875	0.625	338	52.8	212.3	15.9	114.3	359.8	0.0	0.0
722	R23Y_100_075ad	1.0	0.875	0.625	322	52.9	214.3	5.9	116.3	32.3	0.0	0.0
723	R16Y_100_075ad	1.0	0.875	0.625	314	53.0	216.3	0.0	118.3	26.1	0.0	0.0
724	R00Y_100_050ad	1.0	0.875	0.625	390	53.1	218.3	49.1	110.3	21.5	0.0	0.0
725	R38Y_100_050ad	1.0	0.875	0.625	382	53.2	220.3	43.1	112.3	15.9	0.0	0.0
726	R16Y_100_050ad	1.0	0.875	0.625	374	53.3	222.3	37.1	114.3	10.8	0.0	0.0
727	B68R_100_050ad	1.0	0.875	0.625	365	53.4	224.3	32.3	116.3	5.9	0.0	0.0
728	NW_100ad	1.0	1.0	1.0	1.0	95.6	95.6	0.0	0.0	0.0	0.0	0.0

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

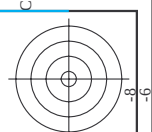
TUB-test chart QE77; hue code: H*d=G00Bd
colors and differences, ΔE*

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/QE77L0FA.TXT /.PS
- application for measurement of offset print output, separate

TUB material: code=rha4ta
ny0* (CMY0)



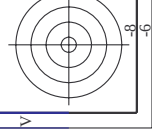
V L O Y M
http://130.149.60.45/~farbmatrik/QE77/QE77L0FA.TXT /PS; 3D-linearization
F: 3D-linearization QE77/QE77LE30FA.DAT in file (F), page 29/33

[illegible]

Mean color difference of this page:

TUB-test chart QE77; hue code: $H_d^* = G00B_d$
colors and differences, ΔE^*

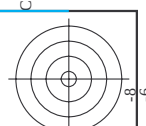
input: *rgb/cmyk* $\rightarrow$ *rgb_{dd}*
output: 3D-linearization to *cmy0*_{dd}*





TUB registration: 20130201-QE77/QE77L0FA.TXT /.PS
- application for measurement of offset print output, separate

TUB material: code=rha4ta
ny0* (CMY0)



5/farbmatrik/QE77/QE77L0FA.TXT /PS; 3D-linearization
QE77/QE77LE30FA.DAT in file (F), page 30/33

n	HFC*F _{old}	rgb_F _{old}	lcr_F _{old}	hsa_F _{old}	rgb*F _{old}	LabCh*F _{old}	Mean color difference of this page:										delta		
							cmyn*_sep,F _{old}	hsan,F _{old}	rgb*F _{old}	LabCh*F _{old}	cmyn*_sep,F _{old}	hsan,F _{old}	rgb*F _{old}	LabCh*F _{old}	cmyn*_sep,F _{old}	hsan,F _{old}		rgb*F _{old}	LabCh*F _{old}
810	B00R_100,012ad	0.875 1.0	1.0 0.0	360 1.0	0.875 1.0	95.6 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	0.0 0.0	0.0 0.0	0.0 0.0
811	B00R_100,012ad	0.875 1.0	1.0 0.0	360 1.0	0.875 1.0	95.6 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	0.0 0.0	0.0 0.0	0.0 0.0
812	B00R_100,025ad	0.75 1.0	1.0 0.0	360 1.0	0.875 1.0	95.6 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	0.0 0.0	0.0 0.0	0.0 0.0
813	B00R_100,037ad	0.625 1.0	1.0 0.0	360 1.0	0.875 1.0	95.6 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	0.0 0.0	0.0 0.0	0.0 0.0
814	B00R_100,050ad	0.5 1.0	1.0 0.0	360 1.0	0.875 1.0	95.6 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	0.0 0.0	0.0 0.0	0.0 0.0
815	B00R_100,062ad	0.375 1.0	1.0 0.0	360 1.0	0.875 1.0	95.6 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	0.0 0.0	0.0 0.0	0.0 0.0
816	B00R_100,075ad	0.25 1.0	1.0 0.0	360 1.0	0.875 1.0	95.6 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	0.0 0.0	0.0 0.0	0.0 0.0
817	B00R_100,087ad	0.125 1.0	1.0 0.0	360 1.0	0.875 1.0	95.6 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	0.0 0.0	0.0 0.0	0.0 0.0
818	B00R_100,100ad	0.0 1.0	1.0 0.0	360 1.0	0.875 1.0	95.6 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	0.0 0.0	0.0 0.0	0.0 0.0
819	B00R_100,112ad	0.0 1.0	1.0 0.0	360 1.0	0.875 1.0	95.6 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	0.0 0.0	0.0 0.0	0.0 0.0
820	B00R_087,012ad	0.875 0.875	0.875 1.0	360 0.875	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
821	B00R_087,012ad	0.875 0.875	0.875 1.0	360 0.875	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
822	B00R_087,025ad	0.625 0.625	0.875 0.875	360 0.875	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
823	B00R_087,037ad	0.5 0.5	0.875 0.875	360 0.875	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
824	B00R_087,050ad	0.375 0.375	0.875 0.875	360 0.875	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
825	B00R_087,062ad	0.25 0.25	0.875 0.875	360 0.875	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
826	B00R_087,075ad	0.125 0.125	0.875 0.875	360 0.875	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
827	B00R_087,087ad	0.0 0.0	0.875 0.875	360 0.875	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
828	B00R_087,087ad	0.0 0.0	0.875 0.875	360 0.875	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
829	Y00G_100,025ad	1.0 1.0	0.75 0.75	90 1.0	0.875 0.875	95.6 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	0.0 0.0	0.0 0.0	0.0 0.0
830	Y00G_087,012ad	0.875 0.875	0.875 1.0	360 0.875	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
831	B00R_075,012ad	0.625 0.625	0.75 0.75	360 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
832	B00R_075,025ad	0.5 0.5	0.75 0.75	360 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
833	B00R_075,037ad	0.375 0.375	0.75 0.75	360 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
834	B00R_075,050ad	0.25 0.25	0.75 0.75	360 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
835	B00R_075,062ad	0.125 0.125	0.75 0.75	360 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
836	B00R_075,075ad	0.0 0.0	0.75 0.75	360 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
837	Y00G_100,037ad	1.0 1.0	0.75 0.75	90 1.0	0.875 0.875	95.6 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	0.0 0.0	0.0 0.0	0.0 0.0
838	Y00G_100,050ad	0.875 0.875	0.875 1.0	360 0.875	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
839	Y00G_100,062ad	0.625 0.625	0.75 0.75	360 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
840	Y00G_075,012ad	0.625 0.625	0.75 0.75	360 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
841	Y00G_062,012ad	0.5 0.5	0.625 0.625	360 0.5	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
842	B00R_062,012ad	0.375 0.375	0.625 0.625	360 0.375	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
843	B00R_062,037ad	0.25 0.25	0.625 0.625	360 0.25	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
844	B00R_062,050ad	0.125 0.125	0.625 0.625	360 0.125	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
845	B00R_062,062ad	0.0 0.0	0.625 0.625	360 0.0	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
846	Y00G_100,050ad	1.0 1.0	0.5 0.5	360 1.0	0.875 0.875	95.6 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	0.0 0.0	0.0 0.0	0.0 0.0
847	Y00G_087,037ad	0.875 0.875	0.875 1.0	360 0.875	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
848	Y00G_075,025ad	0.75 0.75	0.875 0.875	360 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
849	Y00G_062,012ad	0.625 0.625	0.5 0.5	360 0.625	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
850	Y00G_050,012ad	0.5 0.5	0.5 0.5	360 0.5	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
851	B00R_050,012ad	0.375 0.375	0.5 0.5	360 0.375	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875
852	B00R_050,025ad	0.25 0.25	0.5 0.5	360 0.25	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875	86.7 0.75	0.875 0.875</								

Mean color difference of this page: delta

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

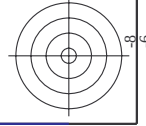
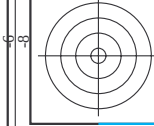
QE770-7N, Page 30/33-F

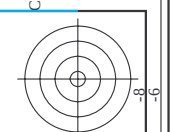
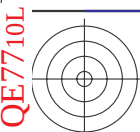
TUB-test chart QE77; hue code: $H_d^* = G00B_d$
colors and differences, ΔE^*

-1032931-F0



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>





http://130.149.60.45/~farbmatrik/QE77/QE77L0FA.TXT /.PS; 3D-linearization
F: 3D-linearization QE77/QE77LE30FA.DAT in file (F), page 31/33

n	HVC-Fid	rgb_Fid	icr_Fid	hsa_Fid	rgb-Hid	LabCh-Hid	cmyn*sep-Fid	delta	hsa-Hid	rgb-Hid	LabCh-Hid	cmyn*sep-Fid	delta	hsa-Hid	rgb-Hid	LabCh-Hid	cmyn*sep-Fid	delta
891	NW_100ad	1.0	1.0	1.0	1.0	95.6	0.0	0.0	360	1.0	95.6	0.0	0.0	360	1.0	95.6	0.0	0.0
892	B50R_100.012ad	1.0	0.875	1.0	0.875	1.0	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
893	B50R_100.025ad	1.0	0.75	1.0	0.75	1.0	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
894	B50R_100.037ad	1.0	0.625	1.0	0.625	1.0	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
895	B50R_100.050ad	1.0	0.5	1.0	0.5	1.0	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
896	B50R_100.062ad	1.0	0.375	1.0	0.375	1.0	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
897	B50R_100.075ad	1.0	0.25	1.0	0.25	1.0	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
898	B50R_100.087ad	1.0	0.125	1.0	0.125	1.0	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
899	B50R_100.100ad	1.0	0.0	1.0	0.0	1.0	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
900	GOB_100.012ad	0.875	1.0	0.875	1.0	0.875	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
901	NW_087ad	0.875	0.875	0.875	0.875	0.875	0.0	0.0	360	1.0	95.6	0.0	0.0	360	1.0	95.6	0.0	0.0
902	B50R_087.012ad	0.875	0.75	0.875	0.875	0.875	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
903	B50R_087.025ad	0.875	0.625	0.875	0.875	0.875	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
904	B50R_087.037ad	0.875	0.5	0.875	0.875	0.875	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
905	B50R_087.050ad	0.875	0.375	0.875	0.875	0.875	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
906	B50R_087.062ad	0.875	0.25	0.875	0.875	0.875	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
907	B50R_087.075ad	0.875	0.125	0.875	0.875	0.875	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
908	B50R_087.087ad	0.875	0.0	0.875	0.875	0.875	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
909	GOB_100.025ad	0.75	1.0	0.75	1.0	0.75	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
910	GOB_100.037ad	0.75	0.875	0.75	0.875	0.875	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
911	NW_075ad	0.75	0.75	0.75	0.75	0.75	0.0	0.0	360	1.0	95.6	0.0	0.0	360	1.0	95.6	0.0	0.0
912	B50R_075.012ad	0.75	0.625	0.75	0.75	0.75	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
913	B50R_075.025ad	0.75	0.5	0.75	0.75	0.75	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
914	B50R_075.037ad	0.75	0.375	0.75	0.75	0.75	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
915	B50R_075.050ad	0.75	0.25	0.75	0.75	0.75	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
916	B50R_075.062ad	0.75	0.125	0.75	0.75	0.75	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
917	B50R_075.075ad	0.75	0.0	0.75	0.75	0.75	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
918	GOB_100.037ad	0.625	1.0	0.625	1.0	0.625	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
919	GOB_100.050ad	0.625	0.875	0.625	0.875	0.875	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
920	GOB_075.012ad	0.625	0.75	0.625	0.75	0.75	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
921	NW_062ad	0.625	0.625	0.625	0.625	0.625	0.0	0.0	360	1.0	95.6	0.0	0.0	360	1.0	95.6	0.0	0.0
922	B50R_062.012ad	0.625	0.5	0.625	0.625	0.625	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
923	B50R_062.025ad	0.625	0.375	0.625	0.625	0.625	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
924	B50R_062.037ad	0.625	0.25	0.625	0.625	0.625	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
925	B50R_062.050ad	0.625	0.125	0.625	0.625	0.625	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
926	B50R_062.062ad	0.625	0.0	0.625	0.625	0.625	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
927	GOB_100.050ad	0.5	1.0	0.5	1.0	0.5	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
928	GOB_087.037ad	0.5	0.875	0.5	0.875	0.875	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
929	GOB_075.025ad	0.5	0.75	0.5	0.75	0.75	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
930	GOB_062.012ad	0.5	0.625	0.5	0.625	0.625	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
931	NW_050ad	0.5	0.5	0.5	0.5	0.5	0.0	0.0	360	1.0	95.6	0.0	0.0	360	1.0	95.6	0.0	0.0
932	B50R_050.012ad	0.5	0.375	0.5	0.375	0.375	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
933	B50R_050.025ad	0.5	0.25	0.5	0.25	0.25	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
934	B50R_050.037ad	0.5	0.125	0.5	0.125	0.125	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
935	B50R_050.050ad	0.5	0.0	0.5	0.0	0.0	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
936	GOB_100.062ad	0.375	1.0	0.375	1.0	0.375	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
937	GOB_087.050ad	0.375	0.875	0.375	0.875	0.875	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
938	GOB_075.037ad	0.375	0.75	0.375	0.75	0.75	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
939	GOB_062.025ad	0.375	0.625	0.375	0.625	0.625	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
940	NW_037ad	0.375	0.5	0.375	0.5	0.5	0.0	0.0	360	1.0	95.6	0.0	0.0	360	1.0	95.6	0.0	0.0
941	B50R_037.012ad	0.375	0.375	0.375	0.375	0.375	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
942	B50R_037.025ad	0.375	0.25	0.375	0.375	0.375	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
943	B50R_037.037ad	0.375	0.125	0.375	0.375	0.375	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
944	B50R_037.050ad	0.375	0.0	0.375	0.375	0.375	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
945	GOB_100.075ad	0.25	1.0	0.25	1.0	0.25	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
946	GOB_087.062ad	0.25	0.875	0.25	0.875	0.875	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
947	GOB_075.050ad	0.25	0.75	0.25	0.75	0.75	0.0	0.0	330	1.0	46.1	79.3	-0.2	330	1.0	46.1	79.3	-0.2
948	GOB_062.037ad	0																



TUB registration: 20130201-QE77/QE77L0FA.TXT /.PS
application for measurement of offset print output, separate

TUB material: code=rha4ta
ny0* (CMY0)



V L O Y M
http://130.149.60.45/~farbmatrik/QE77/QE77L0FA.TXT /PS; 3D-linearization
F: 3D-linearization QE77/QE77LE30FA.DAT in file (F), page 32/33

n	HIC*Ftd	rgb_Ftd					lcr_Ftd	hsa_Ftd	rgb*Ftd					LabCh*Ftd	emyn*sep_Ftd	hsa_Ncd	rgb_Ncd					LabCh*Ncd
		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	
972	NW_0000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.125	0.0	24.3	0.0	0.0	0.885	1.0	360	1.0	1.0	95.6	0.0	0.0	
973	NW_0124d	0.125	0.125	0.125	0.125	0.125	0.125	360	0.125	0.125	0.125	33.2	0.0	0.736	1.0	360	1.0	1.0	95.6	0.0	0.0	
974	NW_0254d	0.25	0.25	0.25	0.25	0.25	0.25	360	0.25	0.25	0.125	42.1	0.0	0.587	0.55	360	1.0	1.0	95.6	0.0	0.0	
975	NW_0374d	0.375	0.375	0.375	0.375	0.375	0.375	360	0.375	0.375	0.375	51.0	0.0	0.473	0.452	360	1.0	1.0	95.6	0.0	0.0	
976	NW_0504d	0.5	0.5	0.5	0.5	0.5	0.5	360	0.5	0.5	0.5	60.0	0.0	0.382	0.356	360	1.0	1.0	95.6	0.0	0.0	
977	NW_0624d	0.625	0.625	0.625	0.625	0.625	0.625	360	0.625	0.625	0.625	68.9	0.0	0.26	0.26	360	1.0	1.0	95.6	0.0	0.0	
978	NW_0754d	0.75	0.75	0.75	0.75	0.75	0.75	360	0.75	0.75	0.778	77.8	0.0	0.181	0.177	360	1.0	1.0	95.6	0.0	0.0	
979	NW_0874d	0.875	0.875	0.875	0.875	0.875	0.875	360	0.875	0.875	0.875	86.7	0.0	0.101	0.093	360	1.0	1.0	95.6	0.0	0.0	
980	NW_1004d	1.0	1.0	1.0	1.0	1.0	1.0	360	1.0	1.0	0.93	95.6	0.0	0.162	0.101	360	1.0	1.0	95.6	0.0	0.0	
981	NW_0000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.125	0.0	24.3	0.0	0.0	0.0	1.0	360	1.0	1.0	95.6	0.0	0.0	
982	NW_0124d	0.125	0.125	0.125	0.125	0.125	0.125	360	0.125	0.125	0.125	33.2	0.0	0.774	0.736	360	1.0	1.0	95.6	0.0	0.0	
983	NW_0254d	0.25	0.25	0.25	0.25	0.25	0.25	360	0.25	0.25	0.125	42.1	0.0	0.587	0.55	360	1.0	1.0	95.6	0.0	0.0	
984	NW_0374d	0.375	0.375	0.375	0.375	0.375	0.375	360	0.375	0.375	0.375	51.0	0.0	0.473	0.452	360	1.0	1.0	95.6	0.0	0.0	
985	NW_0504d	0.5	0.5	0.5	0.5	0.5	0.5	360	0.5	0.5	0.5	60.0	0.0	0.382	0.356	360	1.0	1.0	95.6	0.0	0.0	
986	NW_0624d	0.625	0.625	0.625	0.625	0.625	0.625	360	0.625	0.625	0.625	68.9	0.0	0.26	0.26	360	1.0	1.0	95.6	0.0	0.0	
987	NW_0754d	0.75	0.75	0.75	0.75	0.75	0.75	360	0.75	0.75	0.778	77.8	0.0	0.181	0.177	360	1.0	1.0	95.6	0.0	0.0	
988	NW_0874d	0.875	0.875	0.875	0.875	0.875	0.875	360	0.875	0.875	0.875	86.7	0.0	0.101	0.093	360	1.0	1.0	95.6	0.0	0.0	
989	NW_1004d	1.0	1.0	1.0	1.0	1.0	1.0	360	1.0	1.0	0.93	95.6	0.0	0.162	0.101	360	1.0	1.0	95.6	0.0	0.0	
990	NW_0000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.125	0.0	24.3	0.0	0.0	1.0	1.0	360	1.0	1.0	95.6	0.0	0.0	
991	NW_0124d	0.125	0.125	0.125	0.125	0.125	0.125	360	0.125	0.125	0.125	33.2	0.0	0.774	0.736	360	1.0	1.0	95.6	0.0	0.0	
992	NW_0254d	0.25	0.25	0.25	0.25	0.25	0.25	360	0.25	0.25	0.125	42.1	0.0	0.587	0.55	360	1.0	1.0	95.6	0.0	0.0	
993	NW_0374d	0.375	0.375	0.375	0.375	0.375	0.375	360	0.375	0.375	0.375	51.0	0.0	0.473	0.452	360	1.0	1.0	95.6	0.0	0.0	
994	NW_0504d	0.5	0.5	0.5	0.5	0.5	0.5	360	0.5	0.5	0.5	60.0	0.0	0.382	0.356	360	1.0	1.0	95.6	0.0	0.0	
995	NW_0624d	0.625	0.625	0.625	0.625	0.625	0.625	360	0.625	0.625	0.625	68.9	0.0	0.26	0.26	360	1.0	1.0	95.6	0.0	0.0	
996	NW_0754d	0.75	0.75	0.75	0.75	0.75	0.75	360	0.75	0.75	0.778	77.8	0.0	0.181	0.177	360	1.0	1.0	95.6	0.0	0.0	
997	NW_0874d	0.875	0.875	0.875	0.875	0.875	0.875	360	0.875	0.875	0.875	86.7	0.0	0.101	0.093	360	1.0	1.0	95.6	0.0	0.0	
998	NW_1004d	1.0	1.0	1.0	1.0	1.0	1.0	360	1.0	1.0	0.93	95.6	0.0	0.162	0.101	360	1.0	1.0	95.6	0.0	0.0	
999	NW_0000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.125	0.0	24.3	0.0	0.0	1.0	1.0	360	1.0	1.0	95.6	0.0	0.0	
1000	NW_0124d	0.125	0.125	0.125	0.125	0.125	0.125	360	0.125	0.125	0.125	33.2	0.0	0.774	0.736	360	1.0	1.0	95.6	0.0	0.0	
1001	NW_0254d	0.25	0.25	0.25	0.25	0.25	0.25	360	0.25	0.25	0.125	42.1	0.0	0.587	0.55	360	1.0	1.0	95.6	0.0	0.0	
1002	NW_0374d	0.375	0.375	0.375	0.375	0.375	0.375	360	0.375	0.375	0.375	51.0	0.0	0.473	0.452	360	1.0	1.0	95.6	0.0	0.0	
1003	NW_0504d	0.5	0.5	0.5	0.5	0.5	0.5	360	0.5	0.5	0.5	60.0	0.0	0.382	0.356	360	1.0	1.0	95.6	0.0	0.0	
1004	NW_0624d	0.625	0.625	0.625	0.625	0.625	0.625	360	0.625	0.625	0.625	68.9	0.0	0.26	0.26	360	1.0	1.0	95.6	0.0	0.0	
1005	NW_0754d	0.75	0.75	0.75	0.75	0.75	0.75	360	0.75	0.75	0.778	77.8	0.0	0.181	0.177	360	1.0	1.0	95.6	0.0	0.0	
1006	NW_0874d	0.875	0.875	0.875	0.875	0.875	0.875	360	0.875	0.875	0.875	86.7	0.0	0.101	0.093	360	1.0	1.0	95.6	0.0	0.0	
1007	NW_1004d	1.0	1.0	1.0	1.0	1.0	1.0	360	1.0	1.0	0.93	95.6	0.0	0.162	0.101	360	1.0	1.0	95.6	0.0	0.0	
1008	NW_0000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.125	0.0	24.3	0.0	0.0	1.0	1.0	360	1.0	1.0	95.6	0.0	0.0	
1009	NW_0064d	0.066	0.066	0.066	0.066	0.066	0.066	360	0.066	0.066	0.066	29.0	0.0	0.935	0.825	360	1.0	1.0	95.6	0.0	0.0	
1010	NW_0134d	0.133	0.133	0.133	0.133	0.133	0.133	360	0.133	0.133	0.133	33.8	0.0	0.879	0.763	360	1.0	1.0	95.6	0.0	0.0	
1011	NW_0204d	0.2	0.2	0.2	0.2	0.2	0.2	360	0.2	0.2	0.2	38.6	0.0	0.799	0.661	360	1.0	1.0	95.6	0.0	0.0	
1012	NW_0264d	0.266	0.266	0.266	0.266	0.266	0.266	360	0.266	0.266	0.266	43.3	0.0	0.731	0.571	360	1.0	1.0	95.6	0.0	0.0	
1013	NW_0334d	0.333	0.333	0.333	0.333	0.333	0.333	360	0.333	0.333	0.333	48.1	0.0	0.682	0.507	360	1.0	1.0	95.6	0.0	0.0	
1014	NW_0404d	0.4	0.4	0.4	0.4	0.4	0.4	360	0.4	0.4	0.4	52.8	0.0	0.634	0.454	360	1.0	1.0	95.6	0.0	0.0	
1015	NW_0464d	0.466	0.466	0.466	0.466	0.466	0.466	360	0.466	0.466	0.466	57.5	0.0	0.574	0.404	360	1.0	1.0	95.6	0.0	0.0	
1016	NW_0534d	0.533	0.533	0.533	0.533	0.533	0.533	360	0.533	0.533	0.533	62.3	0.0	0.509	0.354	360	1.0	1.0	95.6	0.0	0.0	
1017	NW_0604d	0.6	0.6	0.6	0.6	0.6	0.6	360	0.6	0.6	0.6	67.1	0.0	0.442	0.285	360	1.0	1.0	95.6	0.0	0.0	
1018	NW_0664d	0.666	0.666	0.666	0.666	0.666	0.666	360	0.666	0.666	0.666	71.8	0.0	0.377	0.228	360	1.0	1.0	95.6	0.0	0.0	
1019	NW_0734d	0.734	0.734	0.734	0.734	0.734	0.734	360	0.734	0.734	0.734	76.6	0.0	0.314	0.191	360	1.0	1.0	95.6	0.0	0.0	
1020	NW_0804d	0.8	0.8	0.8	0.8	0.8	0.8	360	0.8	0.8	0.8	81.3	0.0	0.252	0.153	360	1.0	1.0	95.6	0.0	0.0	
1021	NW_0864d	0.866	0.866	0.866	0.866	0.866	0.866	360	0.866	0.866	0.866	86.0	0.0	0.173	0.108	360	1.0	1.0	95.6	0.0	0.0	
1022	NW_0934d	0.933	0.933	0.933	0.933	0.933	0.933	360	0.933	0.933	0.933	90.8	0.0	0.09	0.054	360	1.0	1.0	95.6	0.0	0.0	
1023	NW_1004d	1.0	1.0	1.0	1.0	1.0	1.0	360	1.0	1.0	0.93	95.6	0.0	0.0	0.0	360	1.0	1.0	95.6	0.0	0.0	
1024	NW_0000d	0.0	0.0	0.0	0.0	0.0	0.0	360	0.125	0.0	24.3	0.0	0.0	1.0	1.0	360	1.0	1.0	95.6	0.0	0.0	
1025	NW_0064d	0.066	0.066	0.066	0.066	0.066	0.066	360	0.066	0.066	0.066	29.0	0.0	0.935	0.825	360	1.0	1.0	95.6	0.0	0.0	
1026	NW_0134d	0.133	0.133	0.133	0.133	0.133	0.133	360	0.133	0.133	0.133	33.8	0.0	0.879	0.763	360	1.0	1.0	95.6	0.0	0.0	
1027	NW_0204d	0.2	0.2	0.2	0.2	0.2	0.2	360	0.2	0.2	0.2	38.6	0.0	0.799	0.661	360	1.0	1.0	95.6	0.0	0.0	
1028	NW_0264d	0.266	0.266	0.266	0.266	0.266	0.266	360	0.266	0.266	0.266	43.3	0.0	0.731	0.571	360	1.0	1.0	95.6	0.0	0.0	
1029	NW_0334d	0.333	0.333	0.333	0.333	0.333	0.333	360	0.333	0.333	0.333	48.1	0.0	0.682	0.507	360	1.0	1.0	95.6	0.0	0.0	
1030	NW_0404d	0.4	0.4	0.4	0.4	0.4	0.4	360	0.4	0.4	0.4	52.8	0.0	0.634	0.454	360	1.0	1.0	95.6	0.0	0.0	
1031	NW_0464d	0.466	0.466	0.466	0.466	0.466	0.466	360	0.466	0.466	0.466	57.5	0.0	0.574	0.404	360	1.0	1.0	95.6	0.0	0.0	
1032	NW_0534d	0.533	0.533	0.533	0.533</																	

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TUB-test chart QE77; hue code: H_d^{*}=G00B_d^{*}
colors and differences. ΔE^{*}

input: *rgb/cmyk* $\rightarrow$ *rgb_{dd}*
 output: 3D-linearization to *cmv0**_{dd}



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/QE77L0FA.TXT /.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*_{dd}
output: 3D-linearization to *cmy0**_{dd}

n	HVC*Fid	rgb_Fid	lcr_Fid	hsa_Fid	rgb*Fid	LabCH*Fid	cmy0*_sep_Fid	cmyn*_sep_Fid	hsa_dld	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	0.0 0.0 0.0	0.173 0.108 0.099	360 360 360	1.0 1.0 1.0	95.6 95.6 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	0.0 0.0 0.0	0.09 0.054 0.05	360 360 360	1.0 1.0 1.0	95.6 95.6 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	360 360 360	1.0 1.0 1.0	95.6 95.6 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	0.0 0.0 0.0	1.0 1.0 1.0	360 360 360	1.0 1.0 1.0	95.6 95.6 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	0.0 0.0 0.0	0.935 0.825 0.825	360 360 360	1.0 1.0 1.0	95.6 95.6 95.6	0.0 0.0 0.0
1058	NW_013dd	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	0.0 0.0 0.0	0.879 0.763 0.725	360 360 360	1.0 1.0 1.0	95.6 95.6 95.6	0.0 0.0 0.0
1059	NW_026dd	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	0.0 0.0 0.0	0.799 0.661 0.614	360 360 360	1.0 1.0 1.0	95.6 95.6 95.6	0.0 0.0 0.0
1060	NW_033dd	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	0.0 0.0 0.0	0.731 0.571 0.537	360 360 360	1.0 1.0 1.0	95.6 95.6 95.6	0.0 0.0 0.0
1061	NW_040dd	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	0.0 0.0 0.0	0.682 0.507 0.485	360 360 360	1.0 1.0 1.0	95.6 95.6 95.6	0.0 0.0 0.0
1062	NW_046dd	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	0.0 0.0 0.0	0.636 0.454 0.433	360 360 360	1.0 1.0 1.0	95.6 95.6 95.6	0.0 0.0 0.0
1063	NW_053dd	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	0.0 0.0 0.0	0.574 0.404 0.381	360 360 360	1.0 1.0 1.0	95.6 95.6 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	0.0 0.0 0.0	0.509 0.354 0.33	360 360 360	1.0 1.0 1.0	95.6 95.6 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	0.0 0.0 0.0	0.442 0.285 0.278	360 360 360	1.0 1.0 1.0	95.6 95.6 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	0.0 0.0 0.0	0.377 0.228 0.228	360 360 360	1.0 1.0 1.0	95.6 95.6 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	0.0 0.0 0.0	0.314 0.191 0.186	360 360 360	1.0 1.0 1.0	95.6 95.6 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	0.0 0.0 0.0	0.252 0.153 0.146	360 360 360	1.0 1.0 1.0	95.6 95.6 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	86.6 0.0 0.0	0.0 0.0 0.0	0.173 0.108 0.099	360 360 360	1.0 1.0 1.0	95.6 95.6 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	0.09 0.054 0.05	360 360 360	1.0 1.0 1.0	95.6 95.6 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	360 360 360	1.0 1.0 1.0	95.6 95.6 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	1.0 1.0 1.0	360 360 360	1.0 1.0 1.0	95.6 95.6 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	360 360 360	1.0 1.0 1.0	95.6 95.6 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	389 389 389	1.0 0.0 0.0	45.4 70.9 44.8	83.9 32.3 238.4
1075	Y06C_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	56.8 -25.5 -41.5	0.0 0.0 0.0	0.0 0.0 0.0	210 210 210	0.0 1.0 0.0	56.8 -25.5 -41.5	96.1 96.0 96.1
1076	B06C_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	29.5 -40.4 29.5	0.0 0.0 0.0	0.0 0.0 0.0	69 69 69	0.0 0.0 1.0	29.5 -40.4 29.5	50.0 50.0 50.0
1077	B06C_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	29.5 -40.4 29.5	0.0 0.0 0.0	0.999 0.0 0.0	270 270 270	0.0 0.0 1.0	29.5 -40.4 29.5	50.0 50.0 50.0
1078	B06C_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	29.5 -40.4 29.5	0.0 0.0 0.0	1.0 0.0 0.0	330 330 330	0.0 0.0 1.0	29.5 -40.4 29.5	50.0 50.0 50.0
1079	B50R_100_100dd	1.0 0.0 1.0	1.0 0.0 1.0	1.0 0.0 1.0	1.0 0.0 1.0	46.1 79.3 -0.2	0.0 0.0 0.0	0.0 0.0 0.0	330 330 330	0.0 0.0 1.0	46.1 79.3 -0.2	79.3 79.3 359.8