

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

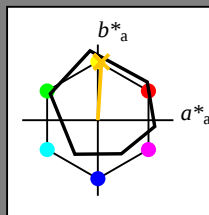
Data for any device (d) or elementary (e) colour:

HIC^*

hue text for the colours of this page:

$H^*_- = R75Y_-$

triangle lightness T^*



ORS18a; adapted (a) CIELAB data					
name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R ₋ ,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):

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

$HIC^*_{-,Ma}$: R75Y_100_100

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

1.0 0.76 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 92$

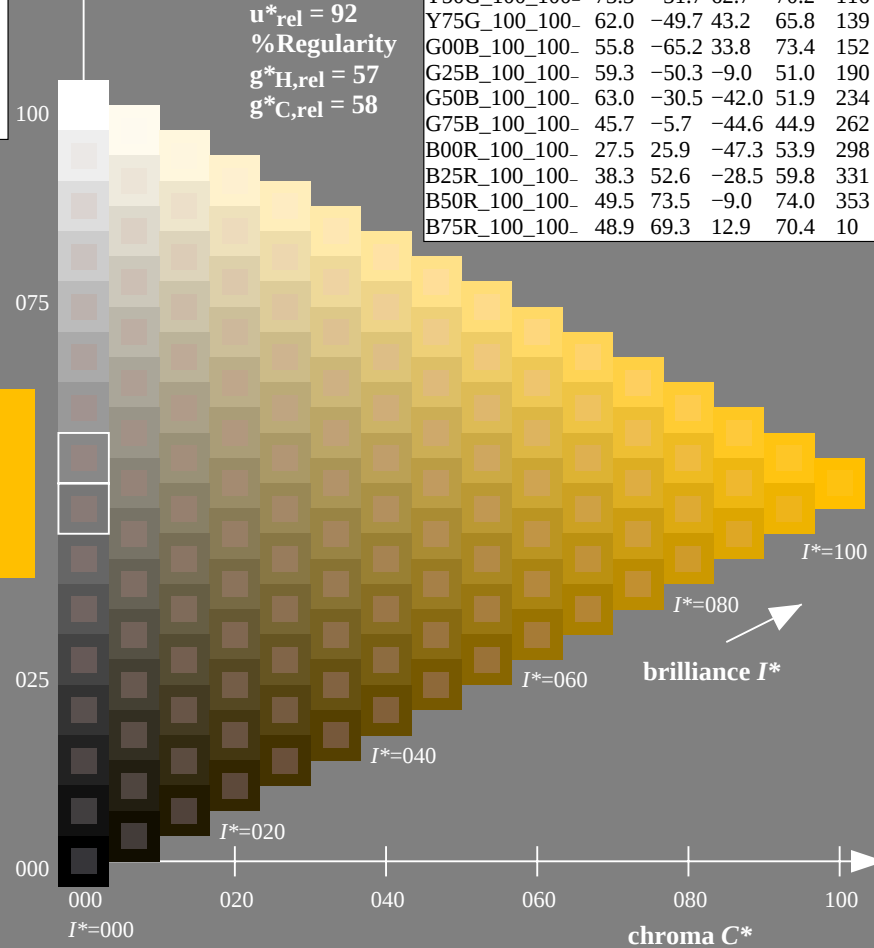
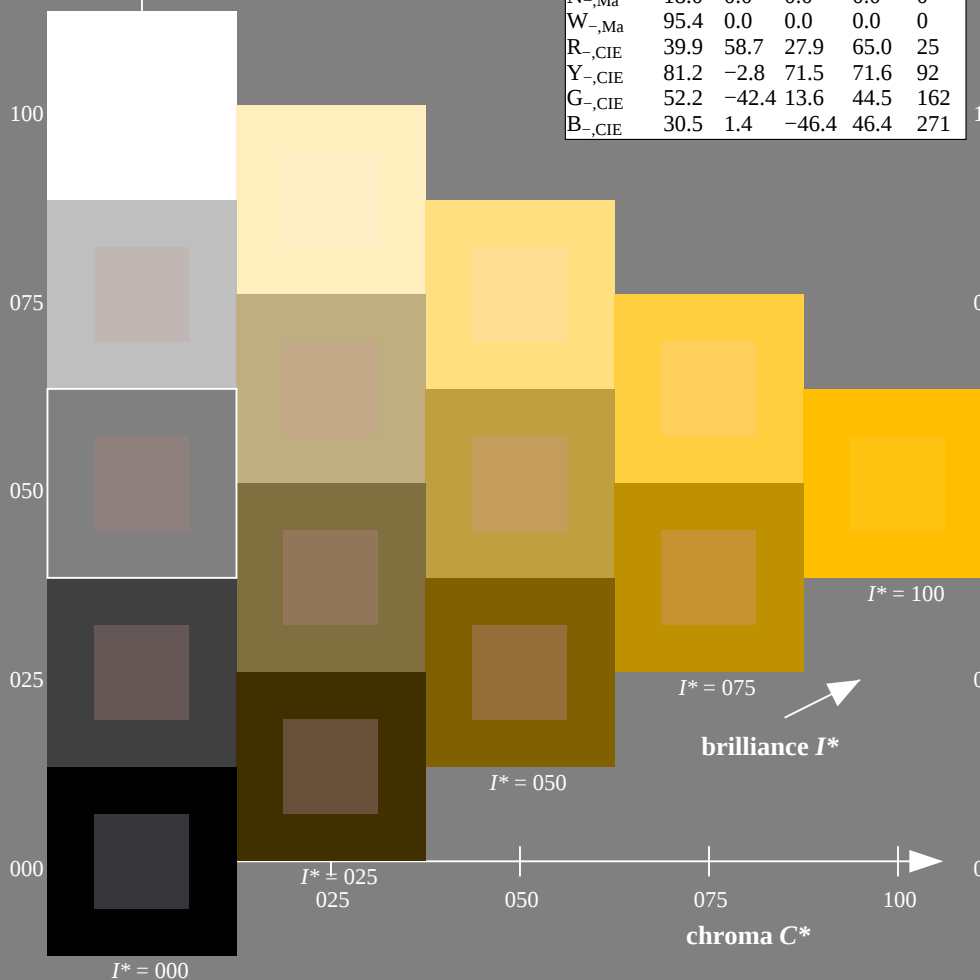
% Regularity

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

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

$H^*_- = R75Y_-$

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 QE28; hue code: $H^*_- = R75Y_-$
Test chart according to DIN 33872, 3D=1, de=1, cmy0*

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

http://130.149.60.45/~farbmatrik/QE28/QE28L0FA.TXT /PS; 3D-linearization
F: 3D-linearization QE28/QE28LE30FA.DAT in file (F), page 2/33

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 76/360 = 0.21$

$H^*_e = R75Y_e$

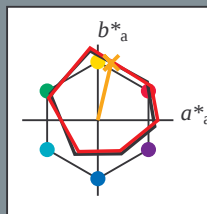
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours
of this page:

$H^*_e = R75Y_e$

triangle lightness T^*



name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _e ,Ma	45.6	72.2	34.4	80.0	25
Y _e ,Ma	83.6	-3.6	90.4	90.4	92
G _e ,Ma	50.6	-62.1	19.9	65.2	162
C _e ,Ma	55.0	-36.2	-27.2	45.3	216
B _e ,Ma	40.2	1.2	-40.6	40.6	271
M _e ,Ma	31.1	47.7	-29.1	55.9	328
N _e ,Ma	24.3	0.0	0.0	0.0	0
W _e ,Ma	95.6	0.0	0.0	0.0	0
R _e ,CIE	39.9	58.7	27.9	65.0	25
Y _e ,CIE	81.2	-2.8	71.5	71.6	92
G _e ,CIE	52.2	-42.4	13.6	44.5	162
B _e ,CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_e, Ma: 70 \ 17 \ 75 \ 77 \ 76$

$HIC^*_e, Ma: R75Y_100_100_e$

$rgbic^*_e, Ma:$

1.0 0.6 0.0 1.0 1.0

triangle lightness T^*

% Gamut

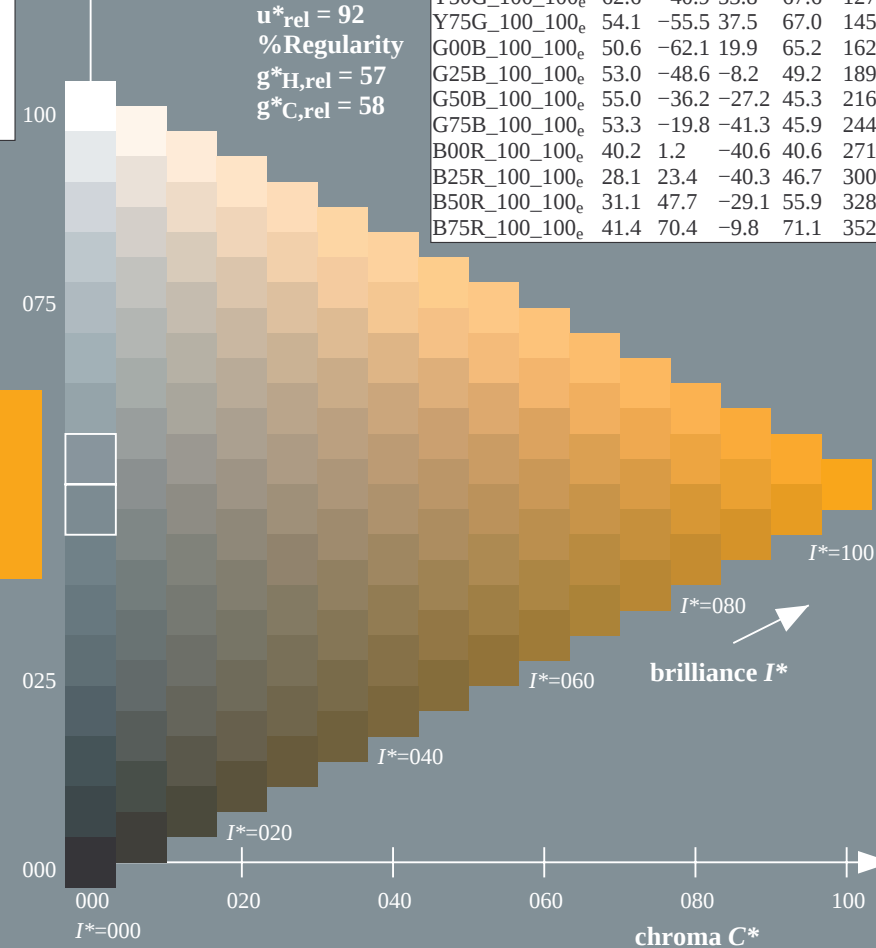
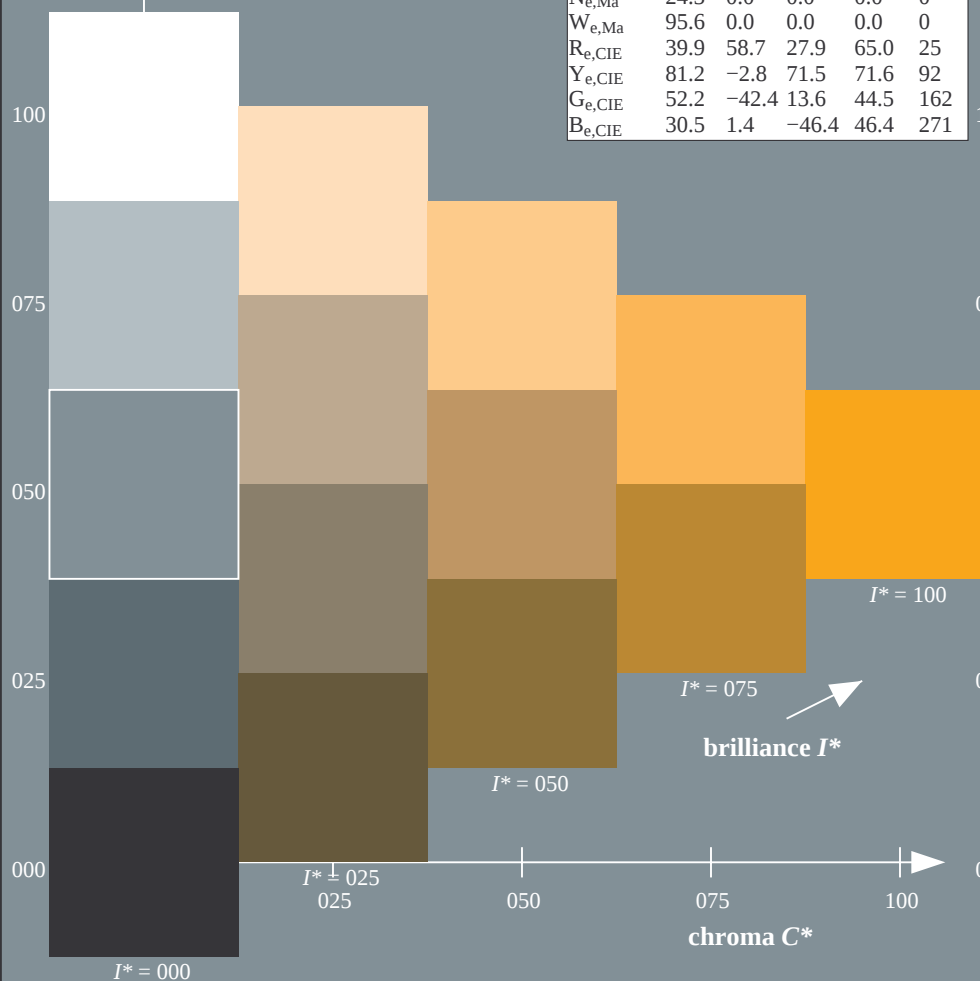
$u^*_{rel} = 92$

% Regularity

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

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

H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100 _e	45.6	72.2	34.4	80.0	25
R25Y_100_100 _e	50.5	59.2	51.6	78.6	41
R50Y_100_100 _e	60.2	38.2	63.4	74.1	58
R75Y_100_100 _e	70.9	17.9	75.9	77.9	76
Y00G_100_100 _e	83.6	-3.6	90.4	90.4	92
Y25G_100_100 _e	74.5	-25.0	74.3	78.4	108
Y50G_100_100 _e	62.6	-40.9	53.8	67.6	127
Y75G_100_100 _e	54.1	-55.5	37.5	67.0	145
G00B_100_100 _e	50.6	-62.1	19.9	65.2	162
G25B_100_100 _e	53.0	-48.6	-8.2	49.2	189
G50B_100_100 _e	55.0	-36.2	-27.2	45.3	216
G75B_100_100 _e	53.3	-19.8	-41.3	45.9	244
B00R_100_100 _e	40.2	1.2	-40.6	40.6	271
B25R_100_100 _e	28.1	23.4	-40.3	46.7	300
B50R_100_100 _e	31.1	47.7	-29.1	55.9	328
B75R_100_100 _e	41.4	70.4	-9.8	71.1	352



1-113131-L0 QE280-73

TUB-test chart QE28; hue code: $H^*_e = R75Y_e$
Test chart according to DIN 33872, 3D=1, de=1, $cmY0^*$

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

TUB registration: 20130201-QE28/QE28L0FA.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 $h_{ab,a,rel} = h_{ab}/360 = 76/360 = 0.21$

$H^*_e = R75Y_e$

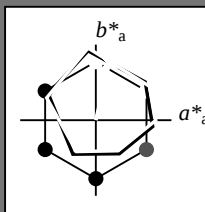
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = R75Y_e$

triangle lightness T^*



ORS20a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _e ,Ma	45.6	72.2	34.4	80.0	25
Y _e ,Ma	83.6	-3.6	90.4	90.4	92
G _e ,Ma	50.6	-62.1	19.9	65.2	162
C _e ,Ma	55.0	-36.2	-27.2	45.3	216
B _e ,Ma	40.2	1.2	-40.6	40.6	271
M _e ,Ma	31.1	47.7	-29.1	55.9	328
N _e ,Ma	24.3	0.0	0.0	0.0	0
W _e ,Ma	95.6	0.0	0.0	0.0	0
R _e ,CIE	39.9	58.7	27.9	65.0	25
Y _e ,CIE	81.2	-2.8	71.5	71.6	92
G _e ,CIE	52.2	-42.4	13.6	44.5	162
B _e ,CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

LabCh^{*}_e,Ma: 70 17 75 77 76

HIC^*_e ,Ma: R75Y_100_100_e

rgbic^{*}_e,Ma:

1.0 0.6 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 92$

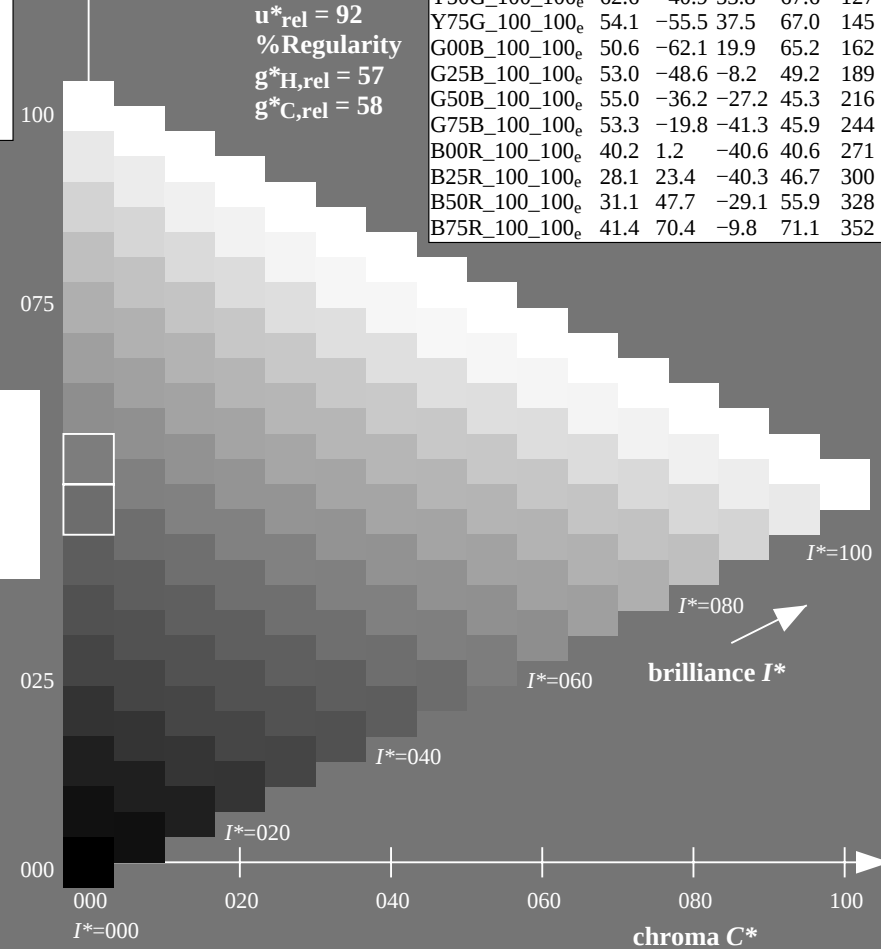
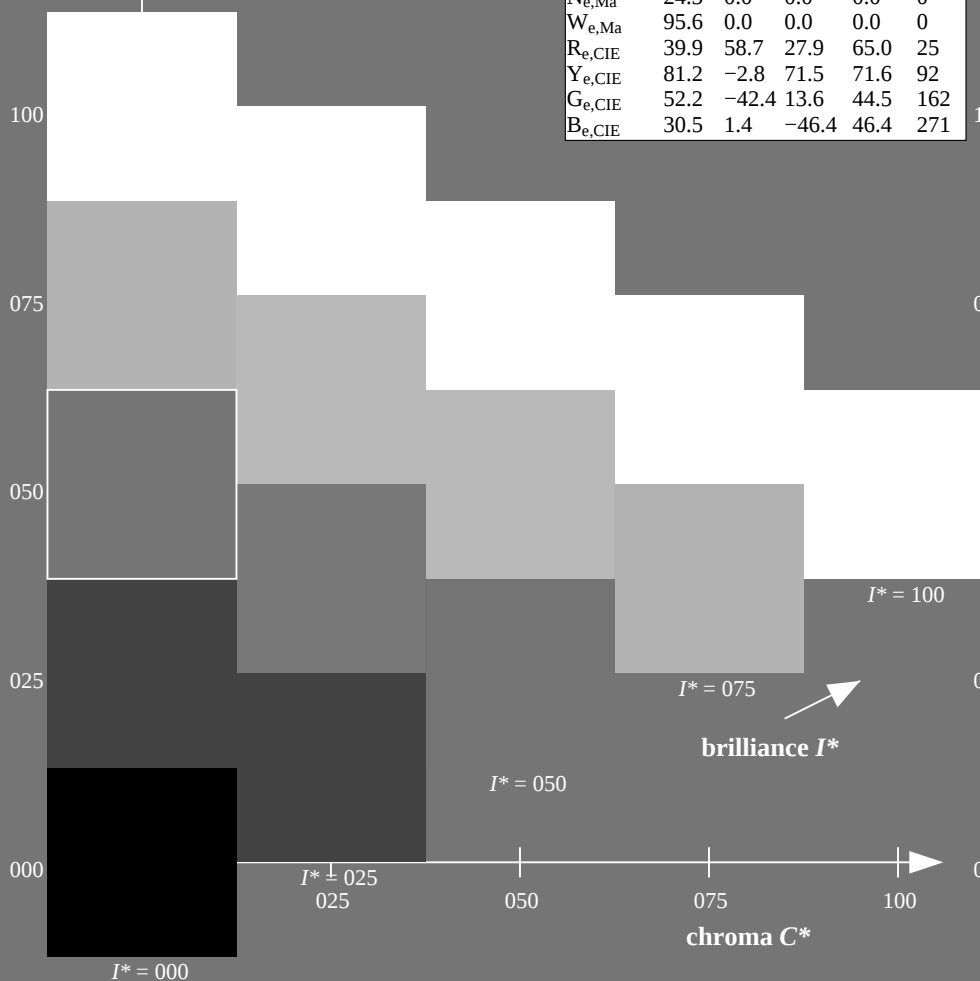
% Regularity

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

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

ORS20a; adapted (a) CIELAB data

H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100 _e	45.6	72.2	34.4	80.0	25
R25Y_100_100 _e	50.5	59.2	51.6	78.6	41
R50Y_100_100 _e	60.2	38.2	63.4	74.1	58
R75Y_100_100 _e	70.9	17.9	75.9	77.9	76
Y00G_100_100 _e	83.6	-3.6	90.4	90.4	92
Y25G_100_100 _e	74.5	-25.0	74.3	78.4	108
Y50G_100_100 _e	62.6	-40.9	53.8	67.6	127
Y75G_100_100 _e	54.1	-55.5	37.5	67.0	145
G00B_100_100 _e	50.6	-62.1	19.9	65.2	162
G25B_100_100 _e	53.0	-48.6	-8.2	49.2	189
G50B_100_100 _e	55.0	-36.2	-27.2	45.3	216
G75B_100_100 _e	53.3	-19.8	-41.3	45.9	244
B00R_100_100 _e	40.2	1.2	-40.6	40.6	271
B25R_100_100 _e	28.1	23.4	-40.3	46.7	300
B50R_100_100 _e	31.1	47.7	-29.1	55.9	328
B75R_100_100 _e	41.4	70.4	-9.8	71.1	352



1-113231-L0 QE280-73

TUB-test chart QE28; hue code: $H^*_e = R75Y_e$
Test chart according to DIN 33872, 3D=1, de=1, cmy0*

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

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 76/360 = 0.21$

$H^*_e = R75Y_e$

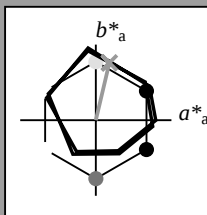
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = R75Y_e$

triangle lightness T^*



ORS20a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R_{e,Ma}$	45.6	72.2	34.4	80.0	25
$Y_{e,Ma}$	83.6	-3.6	90.4	90.4	92
$G_{e,Ma}$	50.6	-62.1	19.9	65.2	162
$C_{e,Ma}$	55.0	-36.2	-27.2	45.3	216
$B_{e,Ma}$	40.2	1.2	-40.6	40.6	271
$M_{e,Ma}$	31.1	47.7	-29.1	55.9	328
$N_{e,Ma}$	24.3	0.0	0.0	0.0	0
$W_{e,Ma}$	95.6	0.0	0.0	0.0	0
$R_{e,CIE}$	39.9	58.7	27.9	65.0	25
$Y_{e,CIE}$	81.2	-2.8	71.5	71.6	92
$G_{e,CIE}$	52.2	-42.4	13.6	44.5	162
$B_{e,CIE}$	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{e,Ma}$: 70 17 75 77 76

$HIC^*_{e,Ma}$: R75Y_100_100_e

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

1.0 0.6 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 92$

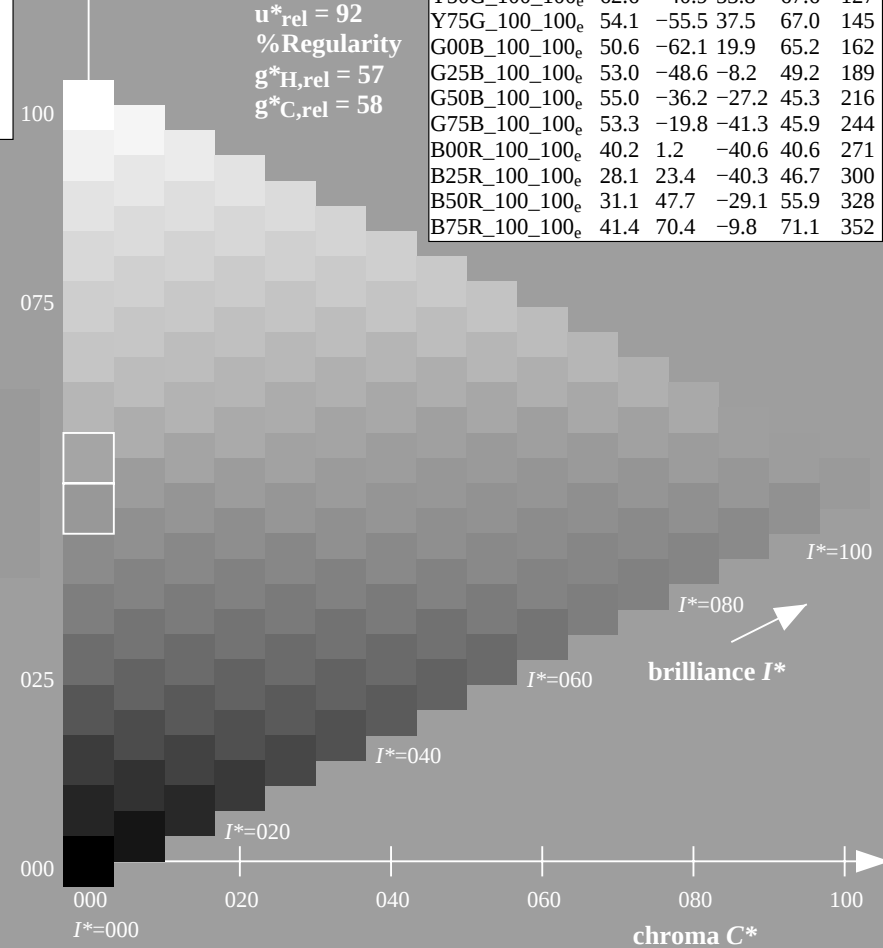
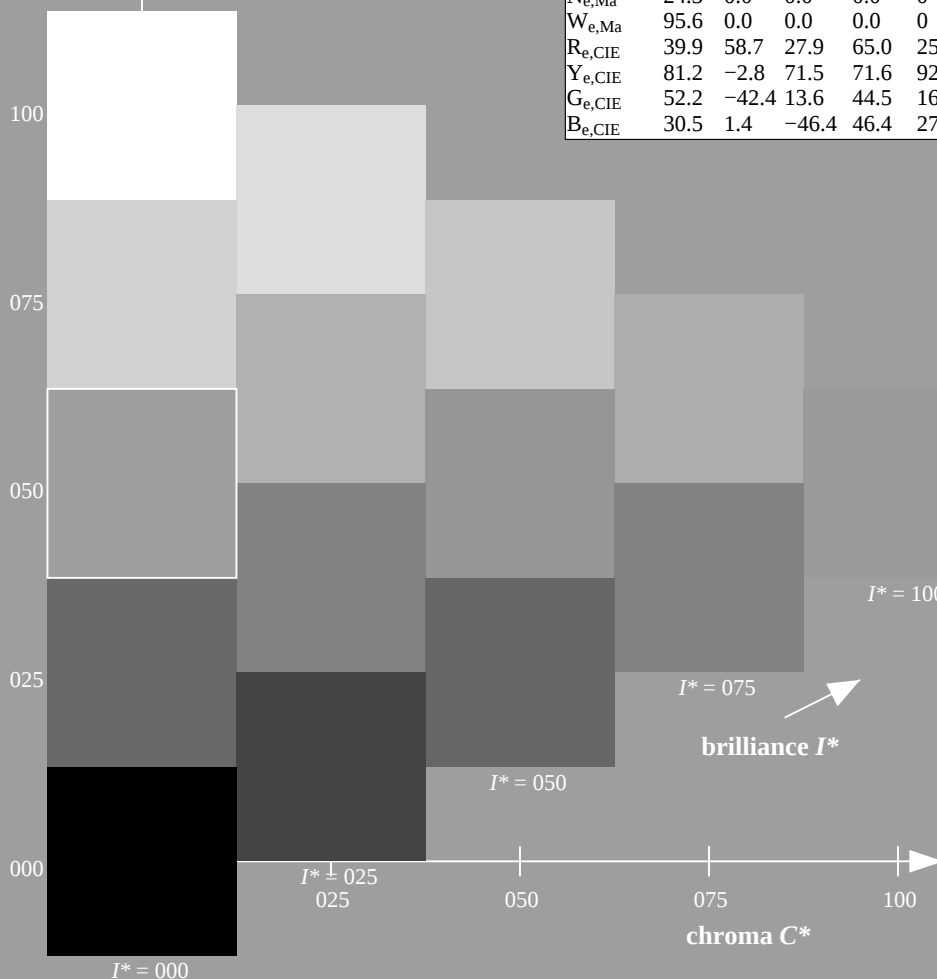
% Regularity

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

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

ORS20a; adapted (a) CIELAB data

H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R00Y_{100_100_e}$	45.6	72.2	34.4	80.0	25
$R25Y_{100_100_e}$	50.5	59.2	51.6	78.6	41
$R50Y_{100_100_e}$	60.2	38.2	63.4	74.1	58
$R75Y_{100_100_e}$	70.9	17.9	75.9	77.9	76
$Y00G_{100_100_e}$	83.6	-3.6	90.4	90.4	92
$Y25G_{100_100_e}$	74.5	-25.0	74.3	78.4	108
$Y50G_{100_100_e}$	62.6	-40.9	53.8	67.6	127
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$B00R_{100_100_e}$	40.2	1.2	-40.6	40.6	271
$B25R_{100_100_e}$	28.1	23.4	-40.3	46.7	300
$B50R_{100_100_e}$	31.1	47.7	-29.1	55.9	328
$B75R_{100_100_e}$	41.4	70.4	-9.8	71.1	352



TUB-test chart QE28; hue code: $H^*_e=R75Y_e$
Test chart according to DIN 33872, 3D=1, de=1, $cmY0^*$

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

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 76/360 = 0.21$

$H^*_e = R75Y_e$

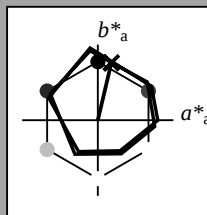
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = R75Y_e$

triangle lightness T^*



name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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W _e ,Ma	95.6	0.0	0.0	0.0	0
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G _e ,CIE	52.2	-42.4	13.6	44.5	162
B _e ,CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{e,Ma}$: 70 17 75 77 76

$HIC^*_{e,Ma}$: R75Y_100_100_e

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

1.0 0.6 0.0 1.0 1.0

triangle lightness T^*

% Gamut

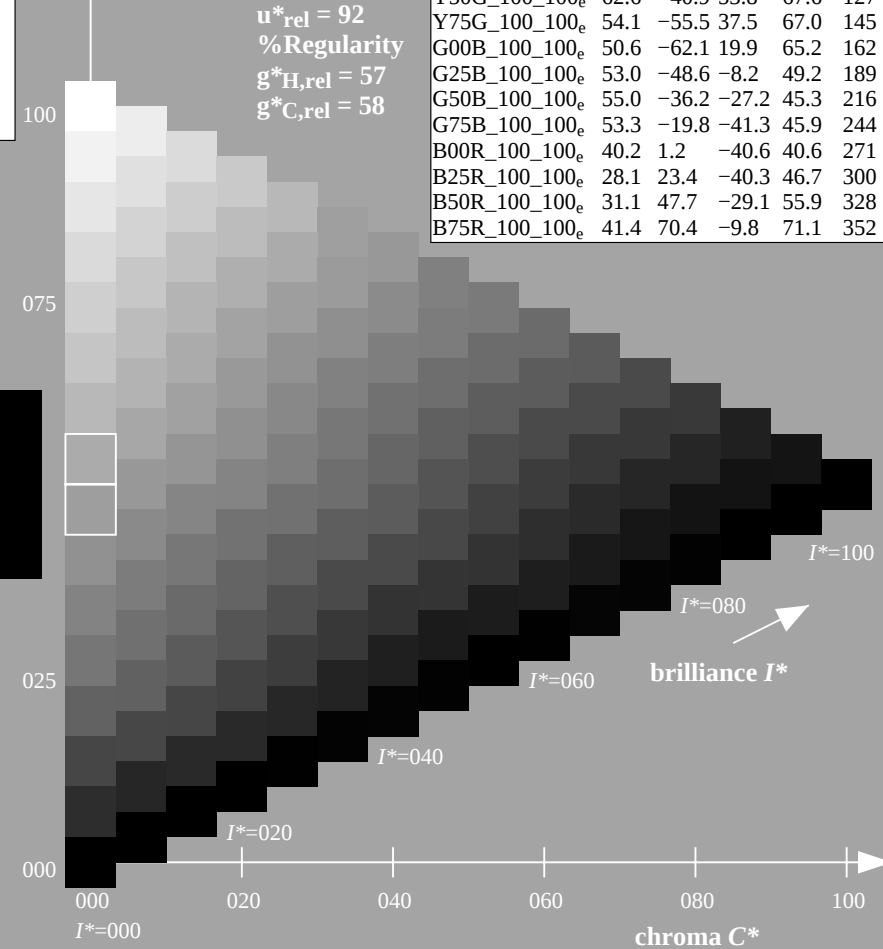
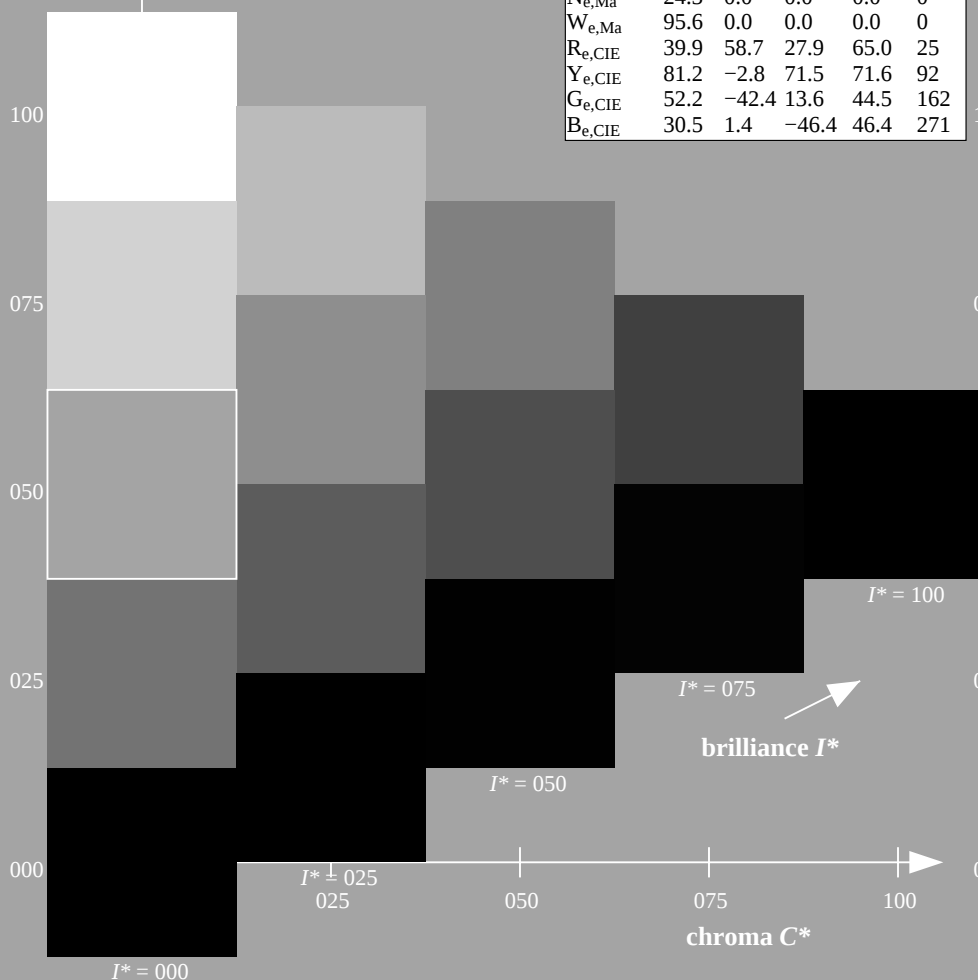
$u^*_{rel} = 92$

% Regularity

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

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

H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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R25Y_100_100 _e	50.5	59.2	51.6	78.6	41
R50Y_100_100 _e	60.2	38.2	63.4	74.1	58
R75Y_100_100 _e	70.9	17.9	75.9	77.9	76
Y00G_100_100 _e	83.6	-3.6	90.4	90.4	92
Y25G_100_100 _e	74.5	-25.0	74.3	78.4	108
Y50G_100_100 _e	62.6	-40.9	53.8	67.6	127
Y75G_100_100 _e	54.1	-55.5	37.5	67.0	145
G00B_100_100 _e	50.6	-62.1	19.9	65.2	162
G25B_100_100 _e	53.0	-48.6	-8.2	49.2	189
G50B_100_100 _e	55.0	-36.2	-27.2	45.3	216
G75B_100_100 _e	53.3	-19.8	-41.3	45.9	244
B00R_100_100 _e	40.2	1.2	-40.6	40.6	271
B25R_100_100 _e	28.1	23.4	-40.3	46.7	300
B50R_100_100 _e	31.1	47.7	-29.1	55.9	328
B75R_100_100 _e	41.4	70.4	-9.8	71.1	352



1-113431-L0 QE280-73

TUB-test chart QE28; hue code: $H^*_e = R75Y_e$
Test chart according to DIN 33872, 3D=1, de=1, $cmY0^*$

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

TUB registration: 20130201-QE28/QE28L0FA.TXT /.PS
application for measurement of offset print output, separation $cmY0^*$ (CMY0)

TUB material: code=rha4ta

http://130.149.60.45/~farbmetrik/QE28/QE28L0FA.TXT /.PS; 3D-linearization
F: 3D-linearization QE28/QE28LE30FA.DAT in file (F), page 6/33

see similar files: <http://130.149.60.45/~farbmetrik/QE28/QE28.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

1-113531-L0 QE280-73

TUB-test chart QE28; hue code: $H_e^* = R75Y_e$
Test chart according to DIN 33872, 3D=1, $de=1$, $cmY0^*$

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

1-113531-E0

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

$J=Y_d$ Yellow

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

$L=G_d$ leaf-green

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

$C=C_d$ cyan-blue

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

$O=R_d$ orange-red

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

$M=M_d$ magenta-red

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

$V=B_d$ violet-blue

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

Y_e yellow

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

G_e green

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

C_e blue-green

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

B_e blue

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

R_e red

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

M_e blue-red

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

Y_s yellow

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

G_s green

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

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^*_{de} 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 lengths of the three colour channels (x=LabCh) for the 1000 test images (x=LabCh) for the 1000 test images (x=LabCh)										The lengths of the elementary colour channels (x=LabCh) for the 1000 test images (x=LabCh)										The lengths of the elementary colour channels (x=LabCh) for the 1000 test images (x=LabCh)										The lengths of the elementary colour channels (x=LabCh) for the 1000 test images (x=LabCh)																																				
h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{dd64M}	LAB* _{ddx64M} (x=LabCh)	rgb* _{ddx361M}	LAB* _{ddx361M} (x=LabCh)	rgb* _{dsx361M}	LAB* _{dsx361M} (x=LabCh)	rgb* _{dex361M}	LAB* _{dex361M}	h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{dd64M}	LAB* _{ddx64M} (x=LabCh)	rgb* _{ddx361M}	LAB* _{ddx361M} (x=LabCh)	rgb* _{dsx361M}	LAB* _{dsx361M} (x=LabCh)	rgb* _{dex361M}	LAB* _{dex361M}	h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{dd64M}	LAB* _{ddx64M} (x=LabCh)	rgb* _{ddx361M}	LAB* _{ddx361M} (x=LabCh)	rgb* _{dsx361M}	LAB* _{dsx361M} (x=LabCh)	rgb* _{dex361M}	LAB* _{dex361M}	h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{dd64M}	LAB* _{ddx64M} (x=LabCh)	rgb* _{ddx361M}	LAB* _{ddx361M} (x=LabCh)	rgb* _{dsx361M}	LAB* _{dsx361M} (x=LabCh)	rgb* _{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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	1.0	0.125	50.5	-62.8	21.9	66.5	160.7	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	0.0	1.0	0.25	51.2	-58.9	12.7	60.3	167.7	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	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^*_{ddx64M}	LAB^*_{ddx64M}	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$	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
38.1	37.5	33.8	1.0	0.125	0.0	48.9	62.8	49.4	79.9	38.1
46.8	45.0	42.1	1.0	0.25	0.0	53.6	51.9	55.5	76.0	46.8
56.9	52.5	50.5	1.0	0.375	0.0	59.1	40.3	62.0	74.0	56.9
67.1	60.0	58.8	1.0	0.5	0.0	64.9	28.9	68.6	74.5	67.1
78.6	67.5	67.2	1.0	0.625	0.0	72.1	15.4	77.1	78.6	78.6
86.2	75.0	75.6	1.0	0.75	0.0	77.9	5.4	83.8	84.0	86.2
92.1	82.5	83.9	1.0	0.875	0.0	83.4	-3.4	90.2	90.2	92.1
96.1	90.0	92.3	1.0	1.0	0.0	87.8	-10.2	95.4	96.0	96.1
98.8	97.5	101.0	0.875	1.0	0.0	84.3	-13.9	89.2	90.3	98.8
101.8	105.0	109.7	0.75	1.0	0.0	80.7	-17.5	83.5	85.3	101.8
107.6	112.5	118.5	0.625	1.0	0.0	75.3	-24.0	75.7	79.4	107.6
114.0	120.0	127.2	0.5	1.0	0.0	70.6	-29.7	66.5	72.8	114.0
121.4	127.5	136.0	0.375	1.0	0.0	65.7	-35.6	58.3	68.3	121.4
135.3	135.0	144.7	0.25	1.0	0.0	58.4	-47.3	46.8	66.6	135.3
144.4	142.5	153.4	0.125	1.0	0.0	54.7	-53.9	38.5	66.3	144.4
155.5	150.0	162.2	0.0	1.0	0.0	50.0	-65.0	29.6	71.4	155.5
160.7	157.5	169.0	0.0	1.0	0.125	50.5	-62.8	21.9	66.5	160.7
167.7	165.0	175.9	0.0	1.0	0.25	51.2	-58.9	12.7	60.3	167.7
176.7	172.5	182.7	0.0	1.0	0.375	52.0	-54.5	3.1	54.6	176.7
189.3	180.0	189.6	0.0	1.0	0.5	52.9	-48.6	-8.0	49.3	189.3
203.2	187.5	196.4	0.0	1.0	0.625	54.0	-42.3	-18.1	46.1	203.2
217.2	195.0	203.2	0.0	1.0	0.75	55.0	-36.0	-27.4	45.3	217.2
228.3	202.5	210.1	0.0	1.0	0.875	55.8	-30.7	-34.5	46.2	228.3
238.4	210.0	216.9	0.0	1.0	1.0	56.8	-25.5	-41.5	48.7	238.4
242.9	217.5	223.8	0.0	0.875	1.0	54.1	-21.1	-41.3	46.4	242.9
249.3	225.0	230.6	0.0	0.75	1.0	50.4	-15.5	-41.1	43.9	249.3
256.9	232.5	237.5	0.0	0.625	1.0	46.5	-9.4	-40.8	41.9	256.9
268.2	240.0	244.3	0.0	0.5	1.0	41.7	-1.2	-40.6	40.6	268.2
278.6	247.5	251.2	0.0	0.375	1.0	37.3	6.1	-40.2	40.7	278.6
289.6	255.0	258.0	0.0	0.25	1.0	32.8	14.3	-40.2	42.7	289.6
299.0	262.5	264.8	0.0	0.125	1.0	28.6	22.4	-40.2	46.1	299.0
306.2	270.0	271.7	0.0	0.0	1.0	25.0	29.5	-40.4	50.0	306.2
314.7	277.5	278.8	0.125	0.0	1.0	27.9	36.0	-36.4	51.2	314.7
322.1	285.0	285.9	0.25	0.0	1.0	28.8	41.9	-32.5	53.1	322.1
333.3	292.5	293.0	0.375	0.0	1.0	32.7	51.8	-26.0	58.0	333.3
340.5	300.0	300.1	0.5	0.0	1.0	35.6	58.6	-20.7	62.1	340.5
347.9	307.5	307.2	0.625	0.0	1.0	38.1	65.4	-14.0	66.9	347.9
352.5	315.0	314.3	0.75	0.0	1.0	41.8	71.0	-9.2	71.6	352.5
356.1	322.5	321.4	0.875	0.0	1.0	44.2	75.2	-5.0	75.3	356.1
359.8	330.0	328.6	1.0	0.0	1.0	46.1	79.3	-0.2	79.3	359.8
363.0	337.5	335.7	1.0	0.0	0.875	45.9	78.2	4.1	78.3	363.0
366.4	345.0	342.8	1.0	0.0	0.75	45.9	77.1	8.6	77.6	366.4
371.1	352.5	349.9	1.0	0.0	0.625	46.0	75.6	14.8	77.0	371.1
375.9	360.0	357.0	1.0	0.0	0.5	45.9	74.2	21.1	77.1	375.9
381.2	367.5	364.1	1.0	0.0	0.375	45.8	72.9	28.3	78.3	381.2
385.6	375.0	371.2	1.0	0.0	0.25	45.6	72.1	34.6	80.0	385.6
389.3	382.5	378.3	1.0	0.0	0.125	45.5	71.4	40.1	81.9	389.3
392.3	390.0	385.4	1.0	0.0	0.0	45.4	70.9	44.8	83.9	392.3

1-113831-L0

QE280-73

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 QE28; hue code: $H^*_e=R75Y_e$
48 step hue circles; $rgb-LabCh^*$ tables

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

TUB registration: 20130201-QE28/QE28L0FA.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}	$LAB^*_{ddx361Mi}(x=LabCh)$	R_d	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	R_s	$rgb^*_{dd361Mi}$	$LAB^*_{dex361Mi}(x=LabCh)$	R_e	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
32	30	25	1.0	0.0 0.0	45.4	70.9	44.8	83.9	32	1.0	0.0 0.0	45.4	70.9	44.8	83.9
33	31	26	1.0	0.016 0.0	45.9	69.8	45.5	83.4	33	1.0	0.0 0.0	45.9	69.8	45.5	83.4
33	32	27	1.0	0.033 0.0	46.3	68.8	46.1	82.8	33	1.0	0.0 0.0	46.3	68.8	46.1	82.8
34	33	28	1.0	0.05 0.0	46.8	67.7	46.8	82.3	34	1.0	0.0 0.0	46.8	67.7	46.8	82.3
35	34	29	1.0	0.066 0.0	47.3	66.6	47.4	81.8	35	1.0	0.0 0.0	47.3	66.6	47.4	81.8
36	35	31	1.0	0.083 0.0	47.7	65.5	48.0	81.2	36	1.0	0.0 0.0	47.7	65.5	48.0	81.2
36	36	32	1.0	0.1 0.0	48.2	64.4	48.5	80.7	36	1.0	0.0 0.0	48.2	64.4	48.5	80.7
37	37	33	1.0	0.116 0.0	48.6	63.3	49.1	80.2	37	1.0	0.0 0.0	48.6	63.3	49.1	80.2
38	38	34	1.0	0.133 0.0	49.2	62.1	49.8	79.6	38	1.0	0.0 0.0	49.2	62.1	49.8	79.6
39	39	35	1.0	0.15 0.0	49.8	60.7	50.7	79.1	39	1.0	0.0 0.0	49.8	60.7	50.7	79.1
41	40	36	1.0	0.166 0.0	50.5	59.2	51.6	78.6	41	1.0	0.0 0.0	50.5	59.2	51.6	78.6
42	41	37	1.0	0.183 0.0	51.1	57.8	52.5	78.1	42	1.0	0.0 0.0	51.1	57.8	52.5	78.1
43	42	38	1.0	0.2 0.0	51.7	56.3	53.3	77.5	43	1.0	0.0 0.0	51.7	56.3	53.3	77.5
44	43	39	1.0	0.216 0.0	52.4	54.9	54.0	77.0	44	1.0	0.0 0.0	52.4	54.9	54.0	77.0
45	44	41	1.0	0.233 0.0	53.0	53.4	54.8	76.5	45	1.0	0.0 0.0	53.0	53.4	54.8	76.5
46	45	42	1.0	0.25 0.0	53.6	51.9	55.5	76.0	46	1.0	0.0 0.0	53.6	51.9	55.5	76.0
48	46	43	1.0	0.266 0.0	54.4	50.4	56.5	75.7	48	1.0	0.0 0.0	54.4	50.4	56.5	75.7
49	47	44	1.0	0.283 0.0	55.1	48.9	57.4	75.4	49	1.0	0.0 0.0	55.1	48.9	57.4	75.4
50	48	45	1.0	0.3 0.0	55.8	47.4	58.4	75.2	50	1.0	0.0 0.0	55.8	47.4	58.4	75.2
52	49	46	1.0	0.316 0.0	56.6	45.8	59.2	74.9	52	1.0	0.0 0.0	56.6	45.8	59.2	74.9
53	50	47	1.0	0.333 0.0	57.3	44.2	60.1	74.6	53	1.0	0.0 0.0	57.3	44.2	60.1	74.6
54	51	48	1.0	0.35 0.0	58.0	42.7	60.9	74.4	54	1.0	0.0 0.0	58.0	42.7	60.9	74.4
56	52	49	1.0	0.366 0.0	58.8	41.1	61.7	74.1	56	1.0	0.0 0.0	58.8	41.1	61.7	74.1
57	53	51	1.0	0.383 0.0	59.5	39.5	62.5	74.0	57	1.0	0.0 0.0	59.5	39.5	62.5	74.0
59	54	52	1.0	0.4 0.0	60.3	38.1	63.5	74.1	59	1.0	0.0 0.0	60.3	38.1	63.5	74.1
60	55	53	1.0	0.416 0.0	61.0	36.6	64.5	74.1	60	1.0	0.0 0.0	61.0	36.6	64.5	74.1
61	56	54	1.0	0.433 0.0	61.8	35.1	65.4	74.2	61	1.0	0.0 0.0	61.8	35.1	65.4	74.2
63	57	55	1.0	0.45 0.0	62.6	33.6	66.2	74.3	63	1.0	0.0 0.0	62.6	33.6	66.2	74.3
64	58	56	1.0	0.466 0.0	63.3	32.0	67.1	74.4	64	1.0	0.0 0.0	63.3	32.0	67.1	74.4
65	59	57	1.0	0.483 0.0	64.1	30.5	67.9	74.4	65	1.0	0.0 0.0	64.1	30.5	67.9	74.4
67	60	58	1.0	0.5 0.0	64.9	28.9	68.6	74.5	67	1.0	0.0 0.0	64.9	28.9	68.6	74.5
68	61	60	1.0	0.516 0.0	65.8	27.2	69.9	75.0	68	1.0	0.0 0.0	65.8	27.2	69.9	75.0
70	62	61	1.0	0.533 0.0	66.8	25.5	71.1	75.6	70	1.0	0.0 0.0	66.8	25.5	71.1	75.6
71	63	62	1.0	0.55 0.0	67.7	23.8	72.3	76.1	71	1.0	0.0 0.0	67.7	23.8	72.3	76.1
73	64	63	1.0	0.566 0.0	68.7	22.0	73.5	76.7	73	1.0	0.0 0.0	68.7	22.0	73.5	76.7
74	65	64	1.0	0.583 0.0	69.7	20.2	74.6	77.3	74	1.0	0.0 0.0	69.7	20.2	74.6	77.3
76	66	65	1.0	0.6 0.0	70.6	18.3	75.6	77.8	76	1.0	0.0 0.0	70.6	18.3	75.6	77.8
77	67	66	1.0	0.616 0.0	71.6	16.4	76.6	78.4	77	1.0	0.0 0.0	71.6	16.4	76.6	78.4
79	68	67	1.0	0.633 0.0	72.5	14.8	77.6	79.0	79	1.0	0.0 0.0	72.5	14.8	77.6	79.0
80	69	68	1.0	0.65 0.0	73.2	13.6	78.5	79.7	80	1.0	0.0 0.0	73.2	13.6	78.5	79.7
81	70	70	1.0	0.666 0.0	74.0	12.3	79.5	80.4	81	1.0	0.0 0.0	74.0	12.3	79.5	80.4
82	71	71	1.0	0.683 0.0	74.8	11.0	80.4	81.1	82	1.0	0.0 0.0	74.8	11.0	80.4	81.1
83	72	72	1.0	0.7 0.0	75.6	9.6	81.3	81.9	83	1.0	0.0 0.0	75.6	9.6	81.3	81.9
84	73	73	1.0	0.716 0.0	76.3	8.3	82.2	82.6	84	1.0	0.0 0.0	76.3	8.3	82.2	82.6
85	74	74	1.0	0.733 0.0	77.1	6.9	83.0	83.3	85	1.0	0.0 0.0	77.1	6.9	83.0	83.3
86	75	75	1.0	0.75 0.0	77.9	5.4	83.8	84.0	86	1.0	0.0 0.0	77.9	5.4	83.8	84.0

1-113931-L0

QE280-73

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 QE28; hue code: $H^*_e=R75Y_e$
48 step hue circles; $rgb-LabCh$ *tables

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

TUB registration: 20130201-QE28/QE28L0FA.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}	$LAB^*_{ds361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	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	0.75	0.0	
87	76	76	1.0	0.766	0.0	78.6	4.3	84.7	84.8	87	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	0.783	0.0	
88	78	78	1.0	0.8	0.0	80.1	2.0	86.5	86.5	88	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	0.817	0.0	
90	80	81	1.0	0.833	0.0	81.6	-0.3	88.2	88.2	90	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	0.85	0.0	
91	82	83	1.0	0.866	0.0	83.1	-2.8	89.8	89.8	91	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	0.883	0.0	
92	84	85	1.0	0.9	0.0	84.3	-4.7	91.3	91.4	92	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	0.917	0.0	
94	86	87	1.0	0.933	0.0	85.5	-6.5	92.7	92.9	94	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	0.95	0.0	
95	88	90	1.0	0.966	0.0	86.6	-8.3	94.1	94.5	95	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	0.983	0.0	
96	90	92	1.0	1.0	0.0	87.8	-10.2	95.4	96.0	96	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	0.983	1.0	0.0
96	92	94	0.966	1.0	0.0	86.8	-11.2	93.8	94.5	96	1.0	0.967	1.0	0.0
97	93	95	0.95	1.0	0.0	86.4	-11.7	93.0	93.7	97	1.0	0.95	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	1.0	0.0
97	95	98	0.916	1.0	0.0	85.5	-12.7	91.3	92.2	97	1.0	0.917	1.0	0.0
98	96	99	0.9	1.0	0.0	85.0	-13.2	90.5	91.5	98	1.0	0.9	1.0	0.0
98	97	100	0.883	1.0	0.0	84.5	-13.6	89.7	90.7	98	1.0	0.883	1.0	0.0
99	98	101	0.866	1.0	0.0	84.1	-14.1	88.9	90.0	99	1.0	0.867	1.0	0.0
99	99	102	0.85	1.0	0.0	83.6	-14.6	88.1	89.3	99	1.0	0.85	1.0	0.0
99	100	103	0.833	1.0	0.0	83.1	-15.1	87.4	88.7	99	1.0	0.833	1.0	0.0
100	101	105	0.816	1.0	0.0	82.6	-15.6	86.6	88.0	100	1.0	0.817	1.0	0.0
100	102	106	0.8	1.0	0.0	82.2	-16.1	85.8	87.3	100	1.0	0.8	1.0	0.0
101	103	107	0.783	1.0	0.0	81.7	-16.6	85.1	86.7	101	1.0	0.783	1.0	0.0
101	104	108	0.766	1.0	0.0	81.2	-17.0	84.3	86.0	101	1.0	0.767	1.0	0.0
101	105	109	0.75	1.0	0.0	80.7	-17.5	83.5	85.3	101	1.0	0.75	1.0	0.0
102	106	110	0.733	1.0	0.0	80.0	-18.4	82.5	84.6	102	1.0	0.733	1.0	0.0
103	107	112	0.716	1.0	0.0	79.3	-19.3	81.5	83.8	103	1.0	0.717	1.0	0.0
104	108	113	0.7	1.0	0.0	78.5	-20.2	80.5	83.0	104	1.0	0.7	1.0	0.0
104	109	114	0.683	1.0	0.0	77.8	-21.1	79.4	82.2	104	1.0	0.683	1.0	0.0
105	110	115	0.666	1.0	0.0	77.1	-22.0	78.4	81.4	105	1.0	0.667	1.0	0.0
106	111	116	0.65	1.0	0.0	76.4	-22.8	77.3	80.6	106	1.0	0.65	1.0	0.0
107	112	117	0.633	1.0	0.0	75.6	-23.6	76.2	79.8	107	1.0	0.633	1.0	0.0
108	113	119	0.616	1.0	0.0	75.0	-24.4	75.1	79.0	108	1.0	0.617	1.0	0.0
108	114	120	0.6	1.0	0.0	74.3	-25.3	73.9	78.1	108	1.0	0.6	1.0	0.0
109	115	121	0.583	1.0	0.0	73.7	-26.1	72.7	77.2	109	1.0	0.583	1.0	0.0
110	116	122	0.566	1.0	0.0	73.1	-26.9	71.4	76.3	110	1.0	0.567	1.0	0.0
111	117	123	0.55	1.0	0.0	72.4	-27.6	70.2	75.5	111	1.0	0.55	1.0	0.0
112	118	124	0.533	1.0	0.0	71.8	-28.3	69.0	74.6	112	1.0	0.533	1.0	0.0
113	119	126	0.516	1.0	0.0	71.2	-29.0	67.7	73.7	113	1.0	0.517	1.0	0.0
114	120	127	0.5	1.0	0.0	70.6	-29.7	66.5	72.8	114	1.0	0.5	1.0	0.0

1-1131031-L0 QE280-73 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 QE28; hue code: $H^*_e=R75Y_e$
48 step hue circles; $rgb-LabCh$ *tables

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

TUB registration: 20130201-QE28/QE28L0FA.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}			$LAB^*_{ddx361Mi}(x=LabCh)$			$rgb^*_{ds361Mi}$			$LAB^*_{dsx361Mi}(x=LabCh)$			$rgb^*_{dd361Mi}$			$rgb^*_{de361Mi}$			$LAB^*_{dex361Mi}(x=LabCh)$			$rgb^*_{dd361Mi}$			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									

Data of Maximum color M in colorimetric system Offset standard print; separation cmy0*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM_s: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;

Six hue angles of the device colours RYGBM_d: $h_{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8$; Six hue angles of the elementary colours RYGBM_e: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^* dd361M	LAB^* ddx361Mi (x=LabCh)	rgb^* ds361Mi	LAB^* dsx361Mi (x=LabCh)	rgb^* dd361Mi	rgb^* de361Mi	LAB^* dex361Mi (x=LabCh)	rgb^* dd361Mi	rgb^* ds361Mi	rgb^* de361Mi						
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

1-1131231-L0 QE280-73 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 QE28; hue code: $H^*_e=R75Y_e$
48 step hue circles; $rgb-LabCh$ *tables

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

TUB registration: 20130201-QE28/QE28L0FA.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 $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Lengths of the three colours (x=LabCh)										Lengths of the elementary colours (x=LabCh)										Lengths of the elementary colours (x=LabCh)										Lengths of the elementary colours (x=LabCh)									
h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{dd361Mi}	LAB* _{ddx361Mi} (x=LabCh)	C _d	rgb* _{ds361Mi}	LAB* _{dsx361Mi} (x=LabCh)	210C _s	rgb* _{dd361Mi}	LAB* _{de361Mi}	216C _e	rgb* _{dd361Mi}	rgb* _{dd}	rgb* _{ds}	rgb* _{de}																								
238	210	216	0.0	1.0	1.0	56.8	-25.5 -41.5 48.7	238	0.0	1.0	0.685 54.5	-39.5 -22.8 45.7	210	0.0	1.0	1.0																							
239	211	217	0.0	0.983 1.0	56.4	-24.9 -41.5 48.4	239	0.0	1.0	0.694 54.6	-39.0 -23.4 45.7	211	0.0	0.983 1.0	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	1.0	0.703 54.7	-38.6 -24.1 45.6	212	0.0	0.967 1.0	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	1.0	0.712 54.7	-38.1 -24.7 45.6	213	0.0	0.95 1.0	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	1.0	0.721 54.8	-37.6 -25.3 45.5	214	0.0	0.933 1.0	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	1.0	0.73 54.9	-37.1 -26.0 45.4	215	0.0	0.917 1.0	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	1.0	0.739 55.0	-36.6 -26.6 45.4	216	0.0	0.9 1.0	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	1.0	0.747 55.0	-36.1 -27.2 45.3	217	0.0	0.883 1.0	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	1.0	0.758 55.1	-35.6 -27.8 45.4	218	0.0	0.867 1.0	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	1.0	0.769 55.2	-35.2 -28.5 45.4	219	0.0	0.85 1.0	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	1.0	0.781 55.3	-34.8 -29.2 45.5	220	0.0	0.833 1.0	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	1.0	0.792 55.3	-34.3 -29.8 45.6	221	0.0	0.817 1.0	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	1.0	0.803 55.4	-33.9 -30.5 45.7	222	0.0	0.8 1.0	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	1.0	0.815 55.5	-33.4 -31.1 45.8	223	0.0	0.783 1.0	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	1.0	0.826 55.6	-32.9 -31.7 45.8	224	0.0	0.767 1.0	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	1.0	0.837 55.6	-32.4 -32.4 45.9	225	0.0	0.75 1.0	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	1.0	0.849 55.7	-31.9 -33.0 46.0	226	0.0	0.733 1.0	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	1.0	0.86 55.8	-31.3 -33.6 46.1	227	0.0	0.717 1.0	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	1.0	0.871 55.9	-30.8 -34.2 46.2	228	0.0	0.7 1.0	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	1.0	0.883 55.9	-30.3 -34.9 46.4	229	0.0	0.683 1.0	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	1.0	0.896 56.0	-29.9 -35.6 46.6	230	0.0	0.667 1.0	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	1.0	0.908 56.1	-29.4 -36.3 46.9	231	0.0	0.65 1.0	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	1.0	0.92 56.2	-28.9 -37.0 47.1	232	0.0	0.633 1.0	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	1.0	0.933 56.3	-28.4 -37.7 47.4	233	0.0	0.617 1.0	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	1.0	0.945 56.4	-27.9 -38.4 47.6	234	0.0	0.6 1.0	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	1.0	0.957 56.5	-27.4 -39.1 47.9	235	0.0	0.583 1.0	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	1.0	0.97 56.6	-26.8 -39.8 48.1	236	0.0	0.567 1.0	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	1.0	0.982 56.7	-26.2 -40.5 48.4	237	0.0	0.55 1.0	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	1.0	0.994 56.8	-25.7 -41.1 48.6	238	0.0	0.533 1.0	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	0.985 1.0	56.5	-24.9 -41.4 48.5	239	0.0	0.517 1.0	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	0.956 1.0	55.9	-23.9 -41.4 48.0	240	0.0	0.5 1.0	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	0.928 1.0	55.3	-22.9 -41.4 47.4	241	0.0	0.483 1.0	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	0.9 1.0	54.7	-21.9 -41.3 46.9	242	0.0	0.467 1.0	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	0.873 1.0	54.1	-21.0 -41.3 46.4	243	0.0	0.45 1.0	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	0.854 1.0	53.5	-20.1 -41.3 46.1	244	0.0	0.433 1.0	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	0.834 1.0	53.0	-19.2 -41.3 45.7	245	0.0	0.417 1.0	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	0.815 1.0	52.4	-18.3 -41.3 45.3	246	0.0	0.4 1.0	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	0.795 1.0	51.8	-17.4 -41.2 44.9	247	0.0	0.383 1.0	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	0.775 1.0	51.2	-16.6 -41.1 44.5	248	0.0	0.367 1.0	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	0.756 1.0	50.6	-15.7 -41.1 44.1	249	0.0	0.35 1.0	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	0.739 1.0	50.1	-14.9 -41.0 43.8	250	0.0	0.333 1.0	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	0.722 1.0	49.6	-14.1 -41.1 43.5	251	0.0	0.317 1.0	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	0.706 1.0	49.1	-13.3 -41.0 43.3	252	0.0	0.3 1.0	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	0.69 1.0	48.6	-12.5 -41.0 43.0	253	0.0	0.283 1.0	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	0.673 1.0	48.1	-11.7 -41.0 42.7	254	0.0	0.267 1.0	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	0.657 1.0	47.5	-10.9 -40.9 42.5	255	0.0	0.25 1.0	0.0	0.25 1.0																							

1-1131331-L0 QE280-73 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 QE28; hue code: $H^*_e=R75Y_e$
48 step hue circles; $rgb-LabCh$ *tables

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

TUB registration: 20130201-QE28/QE28L0FA.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)				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	46.1	-8.6	-40.8	41.9	258	0.0	0.25	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	45.7	-7.9	-40.9	41.7	258	0.0	0.233	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	45.3	-7.2	-40.9	41.6	259	0.0	0.217	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	44.9	-6.6	-40.9	41.5	260	0.0	0.2	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	44.5	-5.9	-40.9	41.4	261	0.0	0.183	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	44.1	-5.2	-40.9	41.3	262	0.0	0.167	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	43.7	-4.5	-40.9	41.2	263	0.0	0.15	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	43.4	-3.9	-40.8	41.1	264	0.0	0.133	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	43.0	-3.2	-40.8	41.0	265	0.0	0.117	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	42.6	-2.6	-40.7	40.9	266	0.0	0.1	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	42.2	-1.9	-40.7	40.8	267	0.0	0.083	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	41.8	-1.3	-40.6	40.7	268	0.0	0.067	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	41.4	-0.6	-40.6	40.7	269	0.0	0.05	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	41.0	0.0	-40.6	40.7	269	0.0	0.033	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	40.6	0.6	-40.6	40.7	270	0.0	0.017	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	40.3	1.2	-40.6	40.7	271	B _e	0.0	0.0	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	39.9	1.9	-40.5	40.7	272	0.017	0.0	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	39.5	2.6	-40.5	40.7	273	0.033	0.0	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	39.1	3.3	-40.5	40.7	274	0.05	0.0	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	38.7	3.9	-40.4	40.7	275	0.067	0.0	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	38.3	4.6	-40.3	40.7	276	0.083	0.0	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	37.9	5.3	-40.3	40.7	277	0.1	0.0	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	37.5	5.9	-40.2	40.7	278	0.117	0.0	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	37.1	6.6	-40.2	40.8	279	0.133	0.0	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	36.7	7.3	-40.2	41.0	280	0.15	0.0	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	36.3	8.0	-40.3	41.2	281	0.167	0.0	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	35.9	8.7	-40.3	41.3	282	0.183	0.0	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	35.5	9.4	-40.3	41.5	283	0.2	0.0	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	35.1	10.1	-40.3	41.7	284	0.217	0.0	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	34.8	10.8	-40.3	41.9	285	0.233	0.0	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	34.4	11.6	-40.3	42.0	285	0.25	0.0	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	34.0	12.3	-40.3	42.2	286	0.267	0.0	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	33.6	13.0	-40.2	42.4	287	0.283	0.0	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	33.2	13.7	-40.2	42.5	288	0.3	0.0	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	32.8	14.4	-40.1	42.7	289	0.317	0.0	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</												

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

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

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}						$LAB^*_{dsx361Mi} (x=LabCh)$						$rgb^*_{ds361Mi}$						$LAB^*_{dsx361Mi} (x=LabCh)$						$rgb^*_{dd361Mi}$						$rgb^*_{de361Mi}$						$LAB^*_{dex361Mi} (x=LabCh)$						$rgb^*_{dd361Mi}$						rgb^*_{dd}						rgb^*_{ds}						rgb^*_{de}																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
366	345	342	1.0	0.0	0.75	45.9	77.1	8.6	77.6	366	0.576	0.0	1.0	37.1	62.9	-16.7	65.1	345	1.0	0.0	0.75	0.539	0.0	1.0	36.4	60.8	-18.7	63.7	342	1.0	0.0	0.75																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</

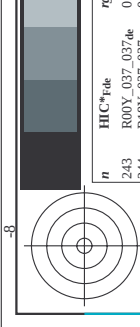
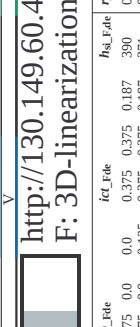
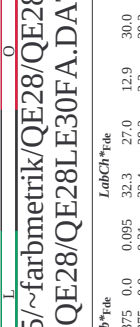
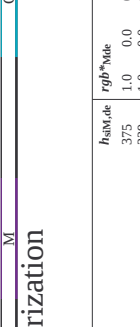
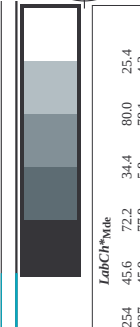
[illegible]

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

TUB-test chart QE28; hue code: $H_e^* = R75Y_e$
colors and differences, ΔE^*

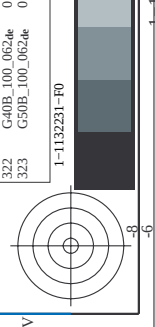
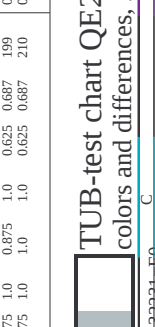
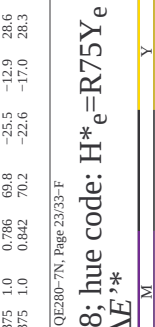
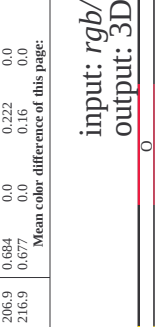
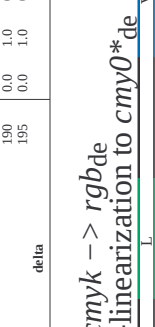
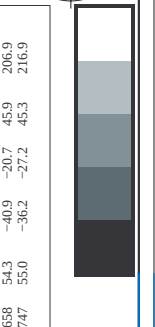
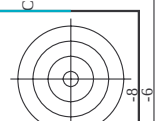
see similar files: <http://130.149.60.45/~farbmetrik/QE28/QE28.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

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



TUB registration: 20130201-QE28/QE28L0FA.TXT /.PS
application for measurement of offset print output, separation cmy0* (CMY0)

TUB material: code=rha4ta



see similar files: <http://130.149.60.45/~farbmatrik/QE28/QE28.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>



http://130.149.60.45/~farbmatrik/QE28/QE28LOFA.TXT /PS; 3D-linearization F: 3D-linearization QE28/QE28LE30FA.DAT in file (F), page 23/33												
n	HIC*File	rgb*File	icL*File	hsa*File	rgb*File	LabCH*File	cmyn*sepFile	cmyn*sepFile	hsa*File	rgb*File	LabCH*File	delta
243	R00Y.037.037.de	0.375 0.0 0.125	0.375 0.375 0.187	390	0.375 0.0 0.095	32.3 27.0	0.671 0.921	0.895 0.0	375	1.0 0.0 0.254	456 72.2	25.4
244	B18Y.037.037.de	0.375 0.0 0.125	0.375 0.375 0.187	349	0.226 0.0 0.375	29.3 24.1	0.68 0.92	0.651 0.0	339	1.0 0.0 0.827	459 72.2	80.0
245	B6SR.037.037.de	0.375 0.0 0.125	0.375 0.375 0.187	349	0.12 0.0 0.375	26.9 17.9	0.778 0.953	0.604 0.0	376	0.603 0.0 1.0	376 64.3	5.8
246	B6SR.037.037.de	0.375 0.0 0.125	0.375 0.375 0.187	349	0.067 0.0 0.5	26.1 18.2	0.887 0.986	0.593 0.0	388	0.321 0.0 1.0	371 64.3	78.1
247	B38R.050.050.de	0.375 0.0 0.5	0.5 0.5 0.25	316	0.067 0.0 0.5	26.1 18.2	0.924 0.993	0.469 0.0	277	0.135 0.0 1.0	279 36.5	55.9
248	B38R.050.050.de	0.375 0.0 0.625	0.625 0.625 0.312	307	0.005 0.0 0.625	24.9 18.7	0.977 1.0	0.354 0.0	270	0.008 0.0 1.0	365 36.5	315.3
249	B2SR.075.075.de	0.375 0.0 0.75	0.75 0.75 0.375	295	0.0 0.079 0.75	27.1 17.6	0.924 0.924	0.264 0.0	264	0.0 0.105 1.0	281 23.4	50.1
250	B2SR.075.075.de	0.375 0.0 0.875	0.875 0.875 0.437	295	0.0 0.151 0.875	29.5 16.8	0.845 0.845	0.142 0.0	260	0.0 0.173 1.0	302 19.6	44.7
251	B18R.100.100.de	0.375 0.0 1.0	1.0 1.0 0.5	292	0.0 0.21 1.0	31.3 16.8	0.787 0.787	0.0 0.0	258	0.0 0.21 1.0	31.5 16.8	40.4
252	R31Y.037.037.de	0.375 0.125 0.0	0.375 0.375 0.187	49	0.375 0.092 0.0	35.3 19.6	0.666 0.666	0.0 0.0	43	1.0 0.246 0.0	53.5 76.1	46.6
253	R00Y.037.025.de	0.375 0.125 0.125	0.375 0.375 0.187	390	0.375 0.124 0.188	38.6 18.0	0.665 0.665	0.0 0.0	375	1.0 0.0 0.254	53.5 76.1	46.6
254	R00Y.037.025.de	0.375 0.125 0.25	0.375 0.375 0.187	390	0.309 0.124 0.375	37.5 17.6	0.696 0.696	0.0 0.0	315	0.736 0.0 1.0	41.4 70.4	80.0
255	B50R.037.025.de	0.375 0.125 0.375	0.375 0.375 0.187	330	0.205 0.124 0.375	34.9 11.9	0.778 0.778	0.0 0.0	288	0.321 0.0 1.0	41.4 70.4	80.0
256	B34R.050.037.de	0.375 0.125 0.5	0.5 0.375 0.312	311	0.149 0.124 0.5	34.0 12.3	0.834 0.834	0.0 0.0	273	0.064 0.0 1.0	26.5 32.9	38.4
257	B2SR.062.050.de	0.375 0.125 0.625	0.625 0.625 0.312	293	0.125 0.177 0.625	35.1 11.7	0.763 0.763	0.0 0.0	264	0.0 0.105 1.0	281 23.4	46.7
258	B18R.075.062.de	0.375 0.125 0.75	0.75 0.625 0.437	293	0.125 0.248 0.75	37.4 11.1	0.862 0.862	0.0 0.0	256	0.0 0.198 1.0	31.1 17.6	44.1
259	B18R.075.062.de	0.375 0.125 0.875	0.875 0.75 0.5	289	0.125 0.311 0.875	39.6 10.8	0.861 0.861	0.0 0.0	256	0.0 0.248 1.0	32.8 14.4	42.7
260	B18R.100.087.de	0.375 0.125 1.0	1.0 0.875 0.562	286	0.125 0.37 1.0	41.6 10.7	0.861 0.861	0.0 0.0	254	0.0 0.281 1.0	33.9 12.2	42.7
261	R68Y.037.037.de	0.375 0.25 0.0	0.375 0.375 0.187	71	0.375 0.203 0.0	40.5 9.2	0.656 0.656	0.0 0.0	62	1.0 0.543 0.0	67.4 75.9	71.1
262	R68Y.037.037.de	0.375 0.25 0.125	0.375 0.375 0.187	71	0.375 0.224 0.124	42.2 9.5	0.651 0.651	0.0 0.0	53	1.0 0.598 0.0	60.2 38.2	74.1
263	R00Y.037.025.de	0.375 0.25 0.25	0.375 0.375 0.187	390	0.375 0.249 0.281	44.8 9.0	0.651 0.651	0.0 0.0	375	1.0 0.0 0.254	456 72.2	25.4
264	B50R.037.025.de	0.375 0.25 0.375	0.375 0.375 0.187	330	0.29 0.249 0.375	43.0 5.9	0.727 0.727	0.0 0.0	288	0.321 0.0 1.0	31.1 17.6	44.1
265	B2SR.050.025.de	0.375 0.25 0.5	0.5 0.5 0.375	300	0.249 0.276 0.5	43.1 5.8	0.727 0.727	0.0 0.0	264	0.0 0.105 1.0	281 23.4	46.7
266	B18R.062.037.de	0.375 0.25 0.625	0.625 0.625 0.312	289	0.25 0.343 0.625	45.3 5.4	0.592 0.592	0.0 0.0	256	0.0 0.248 1.0	32.8 14.4	42.7
267	B18R.075.050.de	0.375 0.25 0.75	0.75 0.5 0.5	284	0.25 0.401 0.75	47.3 5.4	0.592 0.592	0.0 0.0	256	0.0 0.351 1.0	34.7 10.8	41.3
268	B07R.100.075.de	0.375 0.25 0.875	0.875 0.625 0.562	281	0.25 0.459 0.875	49.4 5.4	0.592 0.592	0.0 0.0	249	0.0 0.356 1.0	35.9 8.7	40.4
269	B07R.100.075.de	0.375 0.25 1.0	1.0 0.75 0.625	279	0.25 0.517 1.0	51.4 5.4	0.592 0.592	0.0 0.0	249	0.0 0.356 1.0	35.9 8.7	40.4
270	Y00C.037.037.de	0.375 0.375 0.0	0.375 0.375 0.187	90	0.375 0.329 0.0	46.5 -1.3	0.646 0.646	0.0 0.0	83	1.0 0.878 0.0	83.6 -3.6	90.4
271	Y00C.037.037.de	0.375 0.375 0.125	0.375 0.375 0.187	90	0.375 0.344 0.124	48.0 -0.9	0.646 0.646	0.0 0.0	83	1.0 0.878 0.0	83.6 -3.6	90.4
272	Y00C.037.025.de	0.375 0.375 0.25	0.375 0.375 0.187	360	0.375 0.359 0.249	49.5 -0.4	0.644 0.644	0.0 0.0	360	1.0 1.0 1.0	95.6 0.0	0.0
273	Y00C.037.025.de	0.375 0.375 0.375	0.375 0.375 0.187	360	0.375 0.432 0.5	53.0 0.1	0.653 0.653	0.0 0.0	242	0.0 0.458 1.0	40.2 1.2	-40.6
274	B00R.050.012.de	0.375 0.375 0.5	0.5 0.125 0.437	150	0.375 0.432 0.5	53.0 0.1	0.648 0.648	0.0 0.0	242	0.0 0.458 1.0	40.2 1.2	-40.6
275	B00R.050.012.de	0.375 0.375 0.625	0.625 0.625 0.312	150	0.375 0.489 0.625	55.0 0.3	0.648 0.648	0.0 0.0	242	0.0 0.458 1.0	40.2 1.2	-40.6
276	B00R.050.012.de	0.375 0.375 0.75	0.75 0.375 0.562	270	0.375 0.546 0.75	57.0 0.4	0.648 0.648	0.0 0.0	242	0.0 0.458 1.0	40.2 1.2	-40.6
277	B00R.050.012.de	0.375 0.375 0.875	0.875 0.5 0.625	270	0.375 0.604 0.875	59.0 0.6	0.648 0.648	0.0 0.0	242	0.0 0.458 1.0	40.2 1.2	-40.6
278	B00R.100.062.de	0.375 0.375 1.0	1.0 0.625 0.687	270	0.375 0.661 1.0	61.0 0.7	0.646 0.646	0.0 0.0	242	0.0 0.458 1.0	40.2 1.2	-40.6
279	Y23C.050.050.de	0.375 0.5 0.0	0.5 0.5 0.25 1.0	109	0.302 0.5 0.0	49.4 -12.5	0.71 0.71	0.0 0.0	113	0.605 1.0 0.0	74.5 -25.0	74.3
280	Y31G.050.037.de	0.375 0.5 0.125	0.5 0.375 0.312	109	0.31 0.5 0.124	50.5 -11.2	0.668 0.668	0.0 0.0	131	0.493 1.0 0.0	70.3 -30.0	66.1
281	Y50G.050.012.de	0.375 0.5 0.25	0.5 0.25 0.375	120	0.33 0.5 0.249	51.7 -10.2	0.675 0.675	0.0 0.0	131	0.322 1.0 0.0	62.6 -40.9	53.8
282	Y50G.050.012.de	0.375 0.5 0.375	0.5 0.25 0.375	150	0.375 0.5 0.393	54.3 -7.7	0.666 0.666	0.0 0.0	158	0.0 1.0 0.151	50.6 -62.1	19.9
283	G00B.050.012.de	0.375 0.5 0.5	0.5 0.125 0.437	150	0.375 0.586 0.625	58.3 -4.9	0.652 0.652	0.0 0.0	195	0.0 1.0 0.747	55.0 -65.2	162.2
284	G50B.062.025.de	0.375 0.5 0.625	0.625 0.625 0.312	240	0.375 0.586 0.625	58.3 -4.9	0.649 0.649	0.0 0.0	218	0.0 0.846 1.0	53.3 -19.8	-41.3
285	G43B.075.037.de	0.375 0.5 0.75	0.75 0.375 0.562	251	0.375 0.625 0.75	59.8 -4.3	0.649 0.649	0.0 0.0	229	0.0 0.666 1.0	47.8 -11.4	-41.3
286	G88B.087.037.de	0.375 0.5 0.875	0.875 0.5 0.625	256	0.375 0.676 0.875	61.7 -3.9	0.649 0.649	0.0 0.0	233	0.0 0.602 1.0	45.6 -7.9	-40.9
287	G00B.100.062.de	0.375 0.5 1.0	1.0 0.625 0.687	259	0.375 0.732 1.0	63.6 -3.7	0.652 0.652	0.0 0.0	235	0.0 0.572 1.0	44.5 -5.9	-40.9
288	Y38C.062.062.de	0.375 0.625 0.0	0.625 0.625 0.312	113	0.258 0.625 0.0	51.1 -21.2	0.694 0.694	0.0 0.0	125	0.414 1.0 0.0	67.2 -33.9	69.7
289	Y38C.062.062.de	0.375 0.625 0.125	0.625 0.625 0.312	113	0.286 0.625 0.125	52.4 -20.4	0.694 0.694	0.0 0.0	131	0.322 1.0 0.0	62.6 -40.9	53.8
290	Y68C.062.037.de	0.375 0.625 0.25	0.625 0.625 0.312	131	0.319 0.625 0.25	54.2 -19.1	0.694 0.694	0.0 0.0	139	0.184 1.0 0.0	56.4 -50.9	42.6
291	G25B.062.025.de	0.375 0.625 0.375	0.625 0.625 0.312	131	0.319 0.625 0.375	54.2 -19.1	0.694 0.694	0.0 0.0	139	0.184 1.0 0.0	56.4 -50.9	42.6
292	G25B.062.025.de	0.375 0.625 0.5	0.625 0.625 0.312	131	0.319 0.625 0.5	54.2 -19.1	0.694 0.694	0.0 0.0	158	0.0 1.0 0.151	50.6 -62.1	19.9
293	G25B.062.025.de	0.375 0.625 0.625	0.625 0.625 0.312	131	0.319 0.625 0.625	54.2 -19.1	0.694 0.694	0.0 0.0	180	0.0 1.0 0.502	53.0 -38.2	-27.2
294	G50B.075.037.de	0.375 0.625 0.75	0.75 0.375 0.562	229	0.375 0.732 0.75	58.1 -10.4	0.654 0.654	0.0 0.0	195	0.0 1.0 0.948	56.4 -27.8	47.7
295	G75B.087.050.de	0.375 0.625 0.875	0.875 0.5 0.625	240	0.375 0.798 0.875	65.5 -9.9	0.654 0.654	0.0 0.0	207	0.0 0.846		

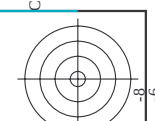
n	HiC*File	rgb*File	Lab*File	rgb*File	Lab*File	cmyn*sepFile	rgb*File	Lab*File	delta
405	R00Y.062.062a	0.625 0.0 0.0	0.625 0.625 0.312	0.625 0.0 0.159	37.6 45.1	0.94	0.0 0.254	456 72.2 34.4	80.0 25.4
406	R00Y.062.062a	0.625 0.0 0.125	0.625 0.625 0.312	0.625 0.0 0.356	37.8 46.1	0.447	0.0 0.57	456 72.2 34.4	80.0 25.4
407	R00Y.062.062a	0.625 0.0 0.25	0.625 0.625 0.312	0.625 0.0 0.624	37.9 46.5	0.937	0.0 0.999	456 72.2 34.4	80.0 25.4
408	R00Y.062.062a	0.625 0.0 0.375	0.625 0.625 0.312	0.625 0.0 0.937	38.0 46.9	0.937	0.0 1.0	456 72.2 34.4	80.0 25.4
409	B59R.062.062a	0.625 0.0 0.625	0.625 0.625 0.312	0.296 0.0 0.625	38.1 35.7	0.601	0.0 1.0	456 72.2 34.4	80.0 25.4
410	B59R.062.062a	0.625 0.0 0.625	0.625 0.625 0.312	0.296 0.0 0.625	38.1 35.7	0.601	0.0 1.0	456 72.2 34.4	80.0 25.4
411	B42R.062.062a	0.625 0.0 0.625	0.625 0.625 0.312	0.296 0.0 0.625	38.1 35.7	0.601	0.0 1.0	456 72.2 34.4	80.0 25.4
412	B36R.062.062a	0.625 0.0 0.625	0.625 0.625 0.312	0.296 0.0 0.625	38.1 35.7	0.601	0.0 1.0	456 72.2 34.4	80.0 25.4
413	B31R.100.100a	0.625 0.0 0.625	0.625 0.625 0.312	0.296 0.0 0.625	38.1 35.7	0.601	0.0 1.0	456 72.2 34.4	80.0 25.4
414	R18Y.062.062a	0.625 0.125 0.125	0.625 0.625 0.312	0.625 0.072 0.0	39.5 39.6	0.447	0.0 0.115	456 72.2 34.4	80.0 25.4
415	R00Y.062.062a	0.625 0.125 0.125	0.625 0.625 0.312	0.625 0.125 0.252	43.0 36.1	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
416	R26Y.062.050a	0.625 0.125 0.125	0.625 0.625 0.312	0.625 0.125 0.252	43.0 36.1	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
417	R00Y.062.050a	0.625 0.125 0.125	0.625 0.625 0.312	0.625 0.125 0.252	43.0 36.1	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
418	B61R.062.050a	0.625 0.125 0.125	0.625 0.625 0.312	0.386 0.125 0.625	39.1 29.9	0.811	0.0 0.057	456 72.2 34.4	80.0 25.4
419	B59R.062.050a	0.625 0.125 0.125	0.625 0.625 0.312	0.386 0.125 0.625	39.1 29.9	0.811	0.0 0.057	456 72.2 34.4	80.0 25.4
420	B40R.075.062a	0.625 0.125 0.125	0.625 0.625 0.312	0.289 0.125 0.75	35.7 24.7	0.802	0.0 0.057	456 72.2 34.4	80.0 25.4
421	B34R.087.075a	0.625 0.125 0.125	0.625 0.625 0.312	0.173 0.125 0.875	34.9 24.7	0.802	0.0 0.057	456 72.2 34.4	80.0 25.4
422	B29R.100.087a	0.625 0.125 0.125	0.625 0.625 0.312	0.125 0.145 1.0	34.4 24.7	0.802	0.0 0.057	456 72.2 34.4	80.0 25.4
423	R23Y.062.050a	0.625 0.25 0.0	0.625 0.625 0.312	0.625 0.188 0.0	44.1 29.5	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
424	R00Y.062.050a	0.625 0.25 0.0	0.625 0.625 0.312	0.625 0.25 0.345	50.1 27.0	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
425	R00Y.062.050a	0.625 0.25 0.0	0.625 0.625 0.312	0.625 0.25 0.345	50.1 27.0	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
426	R00Y.062.050a	0.625 0.25 0.0	0.625 0.625 0.312	0.625 0.25 0.345	50.1 27.0	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
427	B69R.062.037a	0.625 0.25 0.0	0.625 0.625 0.312	0.476 0.25 0.625	47.1 24.1	0.668	0.0 0.057	456 72.2 34.4	80.0 25.4
428	B69R.062.037a	0.625 0.25 0.0	0.625 0.625 0.312	0.476 0.25 0.625	47.1 24.1	0.668	0.0 0.057	456 72.2 34.4	80.0 25.4
429	B38R.075.050a	0.625 0.25 0.0	0.625 0.625 0.312	0.317 0.25 0.75	42.7 17.9	0.668	0.0 0.057	456 72.2 34.4	80.0 25.4
430	B38R.075.050a	0.625 0.25 0.0	0.625 0.625 0.312	0.317 0.25 0.75	42.7 17.9	0.668	0.0 0.057	456 72.2 34.4	80.0 25.4
431	B38R.075.050a	0.625 0.25 0.0	0.625 0.625 0.312	0.317 0.25 0.75	42.7 17.9	0.668	0.0 0.057	456 72.2 34.4	80.0 25.4
432	B59Y.062.062a	0.625 0.375 0.0	0.625 0.625 0.312	0.625 0.308 0.0	49.5 18.4	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
433	B59Y.062.062a	0.625 0.375 0.0	0.625 0.625 0.312	0.625 0.308 0.0	49.5 18.4	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
434	R31Y.062.037a	0.625 0.375 0.0	0.625 0.625 0.312	0.625 0.342 0.25	53.1 19.6	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
435	R00Y.062.025a	0.625 0.375 0.0	0.625 0.625 0.312	0.625 0.375 0.438	56.4 18.0	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
436	R00Y.062.025a	0.625 0.375 0.0	0.625 0.625 0.312	0.625 0.375 0.438	56.4 18.0	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
437	B59R.062.025a	0.625 0.375 0.0	0.625 0.625 0.312	0.455 0.375 0.625	52.7 11.9	0.528	0.0 0.057	456 72.2 34.4	80.0 25.4
438	B59R.062.025a	0.625 0.375 0.0	0.625 0.625 0.312	0.455 0.375 0.625	52.7 11.9	0.528	0.0 0.057	456 72.2 34.4	80.0 25.4
439	B24R.087.050a	0.625 0.375 0.0	0.625 0.625 0.312	0.399 0.375 0.75	51.9 12.7	0.614	0.0 0.057	456 72.2 34.4	80.0 25.4
440	B19R.100.062a	0.625 0.375 0.0	0.625 0.625 0.312	0.375 0.427 0.875	52.9 11.7	0.614	0.0 0.057	456 72.2 34.4	80.0 25.4
441	R81Y.062.062a	0.625 0.5 0.0	0.625 0.625 0.312	0.625 0.405 0.0	54.8 8.5	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
442	R6Y.062.037a	0.625 0.5 0.125	0.625 0.625 0.312	0.625 0.427 0.125	56.5 8.9	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
443	R6Y.062.037a	0.625 0.5 0.125	0.625 0.625 0.312	0.625 0.427 0.125	56.5 8.9	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
444	R00Y.062.025a	0.625 0.5 0.375	0.625 0.625 0.312	0.625 0.453 0.25	58.3 9.2	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
445	R00Y.062.025a	0.625 0.5 0.375	0.625 0.625 0.312	0.625 0.453 0.25	58.3 9.2	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
446	B59R.062.012a	0.625 0.5 0.625	0.625 0.625 0.312	0.625 0.5 0.531	62.6 9.0	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
447	B59R.062.012a	0.625 0.5 0.625	0.625 0.625 0.312	0.625 0.5 0.531	62.6 9.0	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
448	B13R.087.037a	0.625 0.5 0.875	0.625 0.625 0.312	0.5 0.526 0.75	60.9 5.9	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
449	B11R.100.050a	0.625 0.5 0.875	0.625 0.625 0.312	0.5 0.526 0.75	60.9 5.9	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
450	Y00G.062.050a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.549 0.0	61.4 2.2	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
451	Y00G.062.050a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.549 0.0	61.4 2.2	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
452	Y00G.062.037a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.579 0.25	64.4 1.8	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
453	Y00G.062.037a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.579 0.25	64.4 1.8	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
454	Y00G.062.025a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.594 0.375	65.9 0.9	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
455	NW.062a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.609 0.5	67.4 0.4	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
456	B00R.075.012a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.625 0.625	68.9 0.0	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
457	B00R.075.012a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.625 0.625	68.9 0.0	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
458	B00R.075.012a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.625 0.625	68.9 0.0	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
459	Y15C.075.062a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.739 0.875	72.8 0.3	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
460	Y15C.075.062a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.739 0.875	72.8 0.3	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
461	Y15C.075.062a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.739 0.875	72.8 0.3	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
462	Y15C.075.062a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.739 0.875	72.8 0.3	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
463	Y15C.075.062a	0.625 0.625 0.0	0.625 0.625 0.312	0.625 0.739 0.875	72.8 0.3	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
464	G00B.075.012a	0.625 0.75 0.0	0.625 0.625 0.312	0.625 0.75 0.5	69.5 1.7	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
465	G00B.075.012a	0.625 0.75 0.0	0.625 0.625 0.312	0.625 0.75 0.5	69.5 1.7	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
466	G00B.075.012a	0.625 0.75 0.0	0.625 0.625 0.312	0.625 0.75 0.5	69.5 1.7	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
467	G00B.075.012a	0.625 0.75 0.0	0.625 0.625 0.312	0.625 0.75 0.5	69.5 1.7	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
468	G00B.075.012a	0.625 0.75 0.0	0.625 0.625 0.312	0.625 0.75 0.5	69.5 1.7	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
469	G00B.075.012a	0.625 0.75 0.0	0.625 0.625 0.312	0.625 0.75 0.5	69.5 1.7	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
470	Y38C.087.062a	0.625 0.875 0.0	0.625 0.625 0.312	0.495 0.875 0.125	67.7 62.1	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
471	Y38C.087.062a	0.625 0.875 0.0	0.625 0.625 0.312	0.495 0.875 0.125	67.7 62.1	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
472	Y68C.087.037a	0.625 0.875 0.0	0.625 0.625 0.312	0.536 0.875 0.375	70.2 20.4	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
473	G00B.087.025a	0.625 0.875 0.0	0.625 0.625 0.312	0.569 0.875 0.5	72.0 19.1	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
474	G23B.087.025a	0.625 0.875 0.0	0.625 0.625 0.312	0.625 0.875 0.662	75.4 15.5	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
475	G53B.100.075a	0.625 0.875 0.0	0.625 0.625 0.312	0.625 0.875 0.75	76.0 12.3	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
476	G53B.100.075a	0.625 0.875 0.0	0.625 0.625 0.312	0.625 0.875 0.75	76.0 12.3	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
477	Y36C.100.087a	0.625 1.0 0.0	0.625 0.625 0.312	0.434 1.0 0.0	68.0 62.2	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
478	Y36C.100.087a	0.625 1.0 0.0	0.625 0.625 0.312	0.434 1.0 0.0	68.0 62.2	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
479	Y50C.100.075a	0.625 1.0 0.0	0.625 0.625 0.312	0.491 1.0 0.0	70.8 62.2	0.447	0.0 0.057	456 72.2 34.4	80.0 25.4
480	Y61C.100.062a	0.625 1.0 0.0	0.625 0.625 0.312	0.53 1.0 0.0	72.3 62.2				

n	HiC*File	rgb*File	Lab*File	rgb*File	Lab*File	cmyn*sepFile	cmyn*sepFile	delta	delta
567	R00Y.087.087de	0.875 0.0 0.125	0.875 0.875 0.437	0.875 0.0 0.222	42.9 63.1	0.173	0.986	0.785	0.0
568	R36Y.087.087de	0.875 0.0 0.125	0.875 0.875 0.437	0.875 0.0 0.222	42.9 63.1	0.173	0.986	0.785	0.0
569	R23Y.087.087de	0.875 0.0 0.125	0.875 0.875 0.437	0.875 0.0 0.222	42.9 63.1	0.173	0.986	0.785	0.0
570	R20Y.087.087de	0.875 0.0 0.125	0.875 0.875 0.437	0.875 0.0 0.222	42.9 63.1	0.173	0.986	0.785	0.0
571	B70R.087.087de	0.875 0.0 0.125	0.875 0.875 0.437	0.875 0.0 0.222	42.9 63.1	0.173	0.986	0.785	0.0
572	B63R.087.087de	0.875 0.0 0.125	0.875 0.875 0.437	0.875 0.0 0.222	42.9 63.1	0.173	0.986	0.785	0.0
573	B56R.087.087de	0.875 0.0 0.125	0.875 0.875 0.437	0.875 0.0 0.222	42.9 63.1	0.173	0.986	0.785	0.0
574	B49R.100.100de	0.875 0.0 0.125	0.875 0.875 0.437	0.875 0.0 0.222	42.9 63.1	0.173	0.986	0.785	0.0
575	B42R.100.100de	0.875 0.0 0.125	0.875 0.875 0.437	0.875 0.0 0.222	42.9 63.1	0.173	0.986	0.785	0.0
576	R13Y.087.087de	0.875 0.125 0.0	0.875 0.875 0.437	0.875 0.125 0.0	43.9 59.5	0.173	0.986	0.785	0.0
577	R00Y.087.075de	0.875 0.125 0.0	0.875 0.875 0.437	0.875 0.125 0.0	43.9 59.5	0.173	0.986	0.785	0.0
578	R33Y.087.075de	0.875 0.125 0.0	0.875 0.875 0.437	0.875 0.125 0.0	43.9 59.5	0.173	0.986	0.785	0.0
579	R18Y.087.075de	0.875 0.125 0.0	0.875 0.875 0.437	0.875 0.125 0.0	43.9 59.5	0.173	0.986	0.785	0.0
580	R15Y.087.075de	0.875 0.125 0.0	0.875 0.875 0.437	0.875 0.125 0.0	43.9 59.5	0.173	0.986	0.785	0.0
581	B65R.087.075de	0.875 0.125 0.0	0.875 0.875 0.437	0.875 0.125 0.0	43.9 59.5	0.173	0.986	0.785	0.0
582	B57R.087.075de	0.875 0.125 0.0	0.875 0.875 0.437	0.875 0.125 0.0	43.9 59.5	0.173	0.986	0.785	0.0
583	B50R.087.075de	0.875 0.125 0.0	0.875 0.875 0.437	0.875 0.125 0.0	43.9 59.5	0.173	0.986	0.785	0.0
584	B43R.100.087de	0.875 0.125 0.0	0.875 0.875 0.437	0.875 0.125 0.0	43.9 59.5	0.173	0.986	0.785	0.0
585	R15Y.087.075de	0.875 0.125 0.0	0.875 0.875 0.437	0.875 0.125 0.0	43.9 59.5	0.173	0.986	0.785	0.0
586	R12Y.087.075de	0.875 0.125 0.0	0.875 0.875 0.437	0.875 0.125 0.0	43.9 59.5	0.173	0.986	0.785	0.0
587	R00Y.087.062de	0.875 0.25 0.0	0.875 0.625 0.562	0.875 0.25 0.0	45.1 55.1	0.173	0.986	0.785	0.0
588	R31Y.087.062de	0.875 0.25 0.0	0.875 0.625 0.562	0.875 0.25 0.0	45.1 55.1	0.173	0.986	0.785	0.0
589	R16Y.087.062de	0.875 0.25 0.0	0.875 0.625 0.562	0.875 0.25 0.0	45.1 55.1	0.173	0.986	0.785	0.0
590	B60R.087.062de	0.875 0.25 0.0	0.875 0.625 0.562	0.875 0.25 0.0	45.1 55.1	0.173	0.986	0.785	0.0
591	B53R.087.062de	0.875 0.25 0.0	0.875 0.625 0.562	0.875 0.25 0.0	45.1 55.1	0.173	0.986	0.785	0.0
592	B46R.100.075de	0.875 0.25 0.0	0.875 0.625 0.562	0.875 0.25 0.0	45.1 55.1	0.173	0.986	0.785	0.0
593	B39R.100.075de	0.875 0.25 0.0	0.875 0.625 0.562	0.875 0.25 0.0	45.1 55.1	0.173	0.986	0.785	0.0
594	R11Y.087.087de	0.875 0.375 0.0	0.875 0.875 0.437	0.875 0.375 0.0	53.0 39.1	0.173	0.986	0.785	0.0
595	R11Y.087.075de	0.875 0.375 0.0	0.875 0.875 0.437	0.875 0.375 0.0	53.0 39.1	0.173	0.986	0.785	0.0
596	R18Y.087.062de	0.875 0.375 0.0	0.875 0.625 0.562	0.875 0.375 0.0	53.0 39.1	0.173	0.986	0.785	0.0
597	R00Y.087.050de	0.875 0.375 0.0	0.875 0.625 0.562	0.875 0.375 0.0	53.0 39.1	0.173	0.986	0.785	0.0
598	R26Y.087.050de	0.875 0.375 0.0	0.875 0.625 0.562	0.875 0.375 0.0	53.0 39.1	0.173	0.986	0.785	0.0
599	R00Y.087.050de	0.875 0.375 0.0	0.875 0.625 0.562	0.875 0.375 0.0	53.0 39.1	0.173	0.986	0.785	0.0
600	B61R.087.050de	0.875 0.375 0.0	0.875 0.625 0.562	0.875 0.375 0.0	53.0 39.1	0.173	0.986	0.785	0.0
601	B54R.100.062de	0.875 0.375 0.0	0.875 0.625 0.562	0.875 0.375 0.0	53.0 39.1	0.173	0.986	0.785	0.0
602	B47R.100.062de	0.875 0.375 0.0	0.875 0.625 0.562	0.875 0.375 0.0	53.0 39.1	0.173	0.986	0.785	0.0
603	R58Y.087.087de	0.875 0.5 0.0	0.875 0.875 0.437	0.875 0.5 0.0	58.7 47.5	0.173	0.986	0.785	0.0
604	R50Y.087.075de	0.875 0.5 0.0	0.875 0.875 0.437	0.875 0.5 0.0	58.7 47.5	0.173	0.986	0.785	0.0
605	R43Y.087.062de	0.875 0.5 0.0	0.875 0.625 0.562	0.875 0.5 0.0	58.7 47.5	0.173	0.986	0.785	0.0
606	R36Y.087.050de	0.875 0.5 0.0	0.875 0.625 0.562	0.875 0.5 0.0	58.7 47.5	0.173	0.986	0.785	0.0
607	R29Y.087.037de	0.875 0.5 0.0	0.875 0.375 0.687	0.875 0.5 0.0	68.0 29.2	0.173	0.986	0.785	0.0
608	R18Y.087.037de	0.875 0.5 0.0	0.875 0.375 0.687	0.875 0.5 0.0	68.0 29.2	0.173	0.986	0.785	0.0
609	B65R.087.037de	0.875 0.5 0.0	0.875 0.375 0.687	0.875 0.5 0.0	68.0 29.2	0.173	0.986	0.785	0.0
610	B58R.087.037de	0.875 0.5 0.0	0.875 0.375 0.687	0.875 0.5 0.0	68.0 29.2	0.173	0.986	0.785	0.0
611	B51R.100.050de	0.875 0.5 0.0	0.875 0.375 0.687	0.875 0.5 0.0	68.0 29.2	0.173	0.986	0.785	0.0
612	R73Y.087.087de	0.875 0.625 0.0	0.875 0.875 0.437	0.875 0.625 0.0	73.1 17.6	0.173	0.986	0.785	0.0
613	R66Y.087.075de	0.875 0.625 0.0	0.875 0.875 0.437	0.875 0.625 0.0	73.1 17.6	0.173	0.986	0.785	0.0
614	R59Y.087.062de	0.875 0.625 0.0	0.875 0.625 0.562	0.875 0.625 0.0	73.1 17.6	0.173	0.986	0.785	0.0
615	R52Y.087.050de	0.875 0.625 0.0	0.875 0.625 0.562	0.875 0.625 0.0	73.1 17.6	0.173	0.986	0.785	0.0
616	R45Y.087.037de	0.875 0.625 0.0	0.875 0.375 0.687	0.875 0.625 0.0	73.1 17.6	0.173	0.986	0.785	0.0
617	R38Y.087.037de	0.875 0.625 0.0	0.875 0.375 0.687	0.875 0.625 0.0	73.1 17.6	0.173	0.986	0.785	0.0
618	R00Y.087.025de	0.875 0.625 0.0	0.875 0.625 0.562	0.875 0.625 0.0	73.1 17.6	0.173	0.986	0.785	0.0
619	B50R.087.025de	0.875 0.625 0.0	0.875 0.625 0.562	0.875 0.625 0.0	73.1 17.6	0.173	0.986	0.785	0.0
620	B43R.100.037de	0.875 0.625 0.0	0.875 0.625 0.562	0.875 0.625 0.0	73.1 17.6	0.173	0.986	0.785	0.0
621	R86Y.087.087de	0.875 0.75 0.0	0.875 0.875 0.437	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
622	R79Y.087.075de	0.875 0.75 0.0	0.875 0.875 0.437	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
623	R72Y.087.062de	0.875 0.75 0.0	0.875 0.625 0.562	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
624	R65Y.087.050de	0.875 0.75 0.0	0.875 0.625 0.562	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
625	R58Y.087.037de	0.875 0.75 0.0	0.875 0.375 0.687	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
626	B60Y.087.025de	0.875 0.75 0.0	0.875 0.625 0.562	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
627	R00Y.087.012de	0.875 0.75 0.0	0.875 0.875 0.437	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
628	B50R.087.012de	0.875 0.75 0.0	0.875 0.875 0.437	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
629	B43R.100.025de	0.875 0.75 0.0	0.875 0.875 0.437	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
630	Y00C.087.087de	0.875 0.75 0.0	0.875 0.875 0.437	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
631	Y00C.087.075de	0.875 0.75 0.0	0.875 0.875 0.437	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
632	Y00C.087.062de	0.875 0.75 0.0	0.875 0.625 0.562	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
633	Y00C.087.050de	0.875 0.75 0.0	0.875 0.625 0.562	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
634	Y00C.087.037de	0.875 0.75 0.0	0.875 0.375 0.687	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
635	Y00C.087.025de	0.875 0.75 0.0	0.875 0.625 0.562	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
636	Y00C.087.012de	0.875 0.75 0.0	0.875 0.875 0.437	0.875 0.75 0.0	86.0 12.3	0.173	0.986	0.785	0.0
637	NW.087de	0.875 0.875 0.0	0.875 0.875 0.437	0.875 0.875 0.0	86.0 12.3	0.173	0.986	0.785	0.0
638	B00R.100.012de	0.875 0.875 0.0	0.875 0.875 0.437	0.875 0.875 0.0	86.0 12.3	0.173	0.986	0.785	0.0
639	Y11C.100.100de	0.875 1.0 0.0	0.875 1.0 0.0	0.875 1.0 0.0	86.0 12.3	0.173	0.986	0.785	0.0
640	Y13C.100.087de	0.875 1.0 0.0	0.875 0.875 0.437	0.875 1.0 0.0	86.0 12.3	0.173	0.986	0.785	0.0
641	Y15C.100.075de	0.875 1.0 0.0	0.875 0.875 0.437	0.875 1.0 0.0	86.0 12.3	0.173	0.986	0.785	0.0
642	Y18C.100.062de	0.875 1.0 0.0	0.875 0.625 0.562	0.875 1.0 0.0	86.0 12.3	0.173	0.986	0.785	0.0
643	Y23C.100.050de	0.875 1.0 0.0	0.875 0.625 0.562	0.875 1.0 0.0	86.0 12.3	0.173	0.986	0.785	0.0
644	Y31G.100.037de	0.875 1.0 0.0	0.875 0.375 0.687	0.875 1.0 0.0	86.0 12.3	0.173	0.986	0.785	0.0
645	Y50G.100.025de	0.875 1.0 0.0	0.875 0.625 0.562	0.875 1.0 0.0	86.0 12.3	0.173	0.986	0.785	0.0
646	G00B.100.012de	0.875 1.0 0.0	0.875 0.875 0.437	0.875 1.0 0.0	86.0 12.3	0.173	0.986	0.785	0.0
647	G50B.100.012de	0.875 1.0 0.0	0.875 0.875 0.437	0.875 1.0 0.0	86.0 12.3	0.173	0.986	0.785	0.0



TUB registration: 20130201-QE28/QE28L0FA.TXT /.PS
application for measurement of offset print output, separation cmy0* (CMY0)

TUB material: code=rha4ta



http://130.149.60.45/~farbmatrik/QE28/QE28L0FA.TXT /.PS; 3D-linearization
F: 3D-linearization QE28/QE28L0FA.DAT in file (F), page 29/33

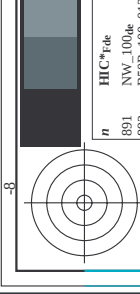
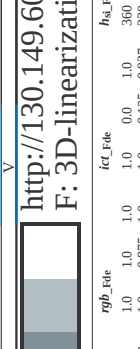
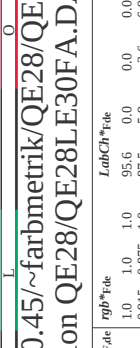
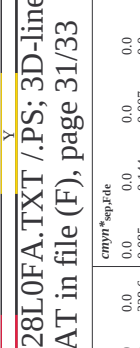
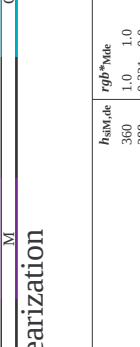
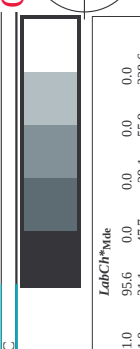
input: *rgb/cmyk* -> *rgbde*
output: 3D-linearization to *cmy0** de

n	HC*File	rgb*File	ic*File	hsa*File	rgb*File	LabCh*File	cmyk*sep*File	hsa*de	rgb*de	LabCh*de	delta
729	NW_100de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
730	G50B_100.012de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
731	G50B_100.025de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
732	G50B_100.037de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
733	G50B_100.050de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
734	G50B_100.062de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
735	G50B_100.075de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
736	G50B_100.087de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
737	G50B_100.100de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
738	ROY_100.012de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
739	ROY_100.025de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
740	ROY_100.037de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
741	ROY_100.050de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
742	ROY_100.062de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
743	ROY_100.075de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
744	ROY_100.087de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
745	ROY_100.100de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
746	ROY_100.012de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
747	ROY_100.025de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
748	ROY_100.037de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
749	ROY_100.050de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
750	ROY_100.062de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
751	ROY_100.075de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
752	ROY_100.087de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
753	ROY_100.100de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
754	ROY_100.012de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
755	ROY_100.025de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
756	ROY_100.037de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
757	ROY_100.050de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
758	ROY_100.062de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
759	ROY_100.075de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
760	ROY_100.087de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
761	ROY_100.100de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
762	ROY_100.012de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
763	ROY_100.025de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
764	ROY_100.037de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
765	ROY_100.050de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
766	ROY_100.062de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
767	ROY_100.075de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
768	ROY_100.087de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
769	ROY_100.100de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
770	ROY_100.012de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
771	ROY_100.025de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
772	ROY_100.037de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
773	ROY_100.050de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
774	ROY_100.062de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
775	ROY_100.075de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
776	ROY_100.087de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
777	ROY_100.100de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
778	ROY_100.012de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
779	ROY_100.025de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
780	ROY_100.037de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
781	ROY_100.050de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
782	ROY_100.062de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
783	ROY_100.075de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
784	ROY_100.087de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
785	ROY_100.100de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
786	ROY_100.012de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
787	ROY_100.025de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
788	ROY_100.037de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
789	ROY_100.050de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
790	ROY_100.062de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
791	ROY_100.075de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
792	ROY_100.087de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
793	ROY_100.100de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
794	ROY_100.012de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
795	ROY_100.025de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
796	ROY_100.037de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
797	ROY_100.050de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
798	ROY_100.062de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
799	ROY_100.075de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
800	ROY_100.087de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
801	ROY_100.100de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
802	ROY_100.012de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
803	ROY_100.025de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
804	ROY_100.037de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
805	ROY_100.050de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
806	ROY_100.062de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
807	ROY_100.075de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
808	ROY_100.087de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0
809	ROY_100.100de	0.875	1.0	1.0	1.0	95.6	0.0	360	1.0	95.6	0.0

see similar files: <http://130.149.60.45/~farbmatrik/QE28/QE28L0FA.TXT> /.PS; 3D-linearization
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

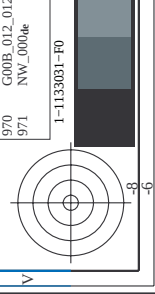
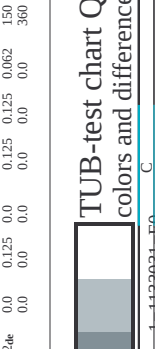
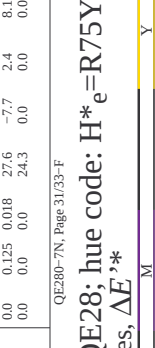
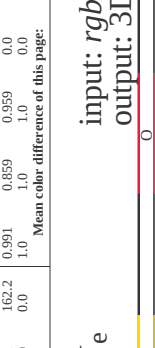
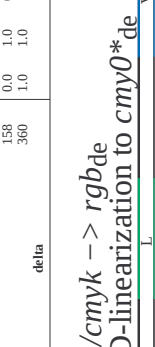
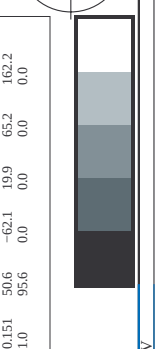
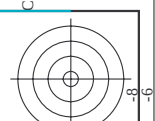
QE280-7N; Page 29/33-F

TUB-test chart QE28; hue code: H*=R75Ye
colors and differences, ΔE*



TUB registration: 20130201-QE28/QE28L0FA.TXT /.PS
application for measurement of offset print output, separation cmy0* (CMY0)

TUB material: code=rha4ta



http://130.149.60.45/~farbmatrik/QE28/QE28L0FA.TXT /.PS; 3D-linearization
F: 3D-linearization QE28/QE28L0FA.DAT in file (F), page 31/33

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

n	HC*File	rgb*File	Lab*File	rgb*File	Lab*File	cmyn*sep*File	rgb*File	Lab*File	delta
891	NW_100de	1.0	1.0	1.0	95.6	0.0	1.0	95.6	0.0
892	B50R_100.012de	0.875	1.0	0.875	1.0	0.0	1.0	95.6	0.0
893	B50R_100.025de	0.75	1.0	0.75	1.0	0.0	1.0	95.6	0.0
894	B50R_100.037de	0.625	1.0	0.625	1.0	0.0	1.0	95.6	0.0
895	B50R_100.050de	0.5	1.0	0.5	1.0	0.0	1.0	95.6	0.0
896	B50R_100.062de	0.375	1.0	0.375	1.0	0.0	1.0	95.6	0.0
897	B50R_100.075de	0.25	1.0	0.25	1.0	0.0	1.0	95.6	0.0
898	B50R_100.087de	0.125	1.0	0.125	1.0	0.0	1.0	95.6	0.0
899	B50R_100.100de	0.0	1.0	0.0	1.0	0.0	1.0	95.6	0.0
900	GOB_100.012de	0.875	1.0	0.875	1.0	0.0	1.0	95.6	0.0
901	NW_087de	0.875	0.875	0.875	0.875	0.0	0.875	0.875	0.0
902	B50R_087.012de	0.875	0.875	0.875	0.875	0.0	0.875	0.875	0.0
903	B50R_087.025de	0.875	0.875	0.875	0.875	0.0	0.875	0.875	0.0
904	B50R_087.037de	0.875	0.875	0.875	0.875	0.0	0.875	0.875	0.0
905	B50R_087.050de	0.875	0.875	0.875	0.875	0.0	0.875	0.875	0.0
906	B50R_087.062de	0.875	0.875	0.875	0.875	0.0	0.875	0.875	0.0
907	B50R_087.075de	0.875	0.875	0.875	0.875	0.0	0.875	0.875	0.0
908	B50R_087.087de	0.875	0.875	0.875	0.875	0.0	0.875	0.875	0.0
909	GOB_100.025de	0.75	1.0	0.75	1.0	0.0	1.0	95.6	0.0
910	GOB_100.037de	0.625	1.0	0.625	1.0	0.0	1.0	95.6	0.0
911	NW_075de	0.75	0.75	0.75	0.75	0.0	0.75	0.75	0.0
912	B50R_075.012de	0.75	0.75	0.75	0.75	0.0	0.75	0.75	0.0
913	B50R_075.025de	0.75	0.75	0.75	0.75	0.0	0.75	0.75	0.0
914	B50R_075.037de	0.75	0.75	0.75	0.75	0.0	0.75	0.75	0.0
915	B50R_075.050de	0.75	0.75	0.75	0.75	0.0	0.75	0.75	0.0
916	B50R_075.062de	0.75	0.75	0.75	0.75	0.0	0.75	0.75	0.0
917	B50R_075.075de	0.75	0.75	0.75	0.75	0.0	0.75	0.75	0.0
918	GOB_100.037de	0.625	1.0	0.625	1.0	0.0	1.0	95.6	0.0
919	GOB_100.050de	0.5	1.0	0.5	1.0	0.0	1.0	95.6	0.0
920	GOB_075.012de	0.625	0.75	0.625	0.75	0.0	0.75	0.75	0.0
921	GOB_075.025de	0.625	0.75	0.625	0.75	0.0	0.75	0.75	0.0
922	B50R_062.012de	0.625	0.5	0.625	0.5	0.0	0.5	0.5	0.0
923	B50R_062.025de	0.625	0.5	0.625	0.5	0.0	0.5	0.5	0.0
924	B50R_062.037de	0.625	0.5	0.625	0.5	0.0	0.5	0.5	0.0
925	B50R_062.050de	0.625	0.5	0.625	0.5	0.0	0.5	0.5	0.0
926	B50R_062.062de	0.625	0.5	0.625	0.5	0.0	0.5	0.5	0.0
927	GOB_100.050de	0.5	1.0	0.5	1.0	0.0	1.0	95.6	0.0
928	GOB_087.037de	0.5	0.875	0.5	0.875	0.0	0.875	0.875	0.0
929	GOB_087.050de	0.5	0.875	0.5	0.875	0.0	0.875	0.875	0.0
930	GOB_087.062de	0.5	0.875	0.5	0.875	0.0	0.875	0.875	0.0
931	NW_050de	0.5	0.5	0.5	0.5	0.0	0.5	0.5	0.0
932	B50R_050.012de	0.5	0.375	0.5	0.375	0.0	0.375	0.375	0.0
933	B50R_050.025de	0.5	0.25	0.5	0.25	0.0	0.25	0.25	0.0
934	B50R_050.037de	0.5	0.125	0.5	0.125	0.0	0.125	0.125	0.0
935	B50R_050.050de	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
936	GOB_100.062de	0.375	1.0	0.375	1.0	0.0	1.0	95.6	0.0
937	GOB_087.050de	0.375	0.875	0.375	0.875	0.0	0.875	0.875	0.0
938	GOB_087.062de	0.375	0.875	0.375	0.875	0.0	0.875	0.875	0.0
939	GOB_087.075de	0.375	0.875	0.375	0.875	0.0	0.875	0.875	0.0
940	GOB_087.087de	0.375	0.875	0.375	0.875	0.0	0.875	0.875	0.0
941	NW_037de	0.375	0.375	0.375	0.375	0.0	0.375	0.375	0.0
942	B50R_037.012de	0.375	0.375	0.375	0.375	0.0	0.375	0.375	0.0
943	B50R_037.025de	0.375	0.375	0.375	0.375	0.0	0.375	0.375	0.0
944	B50R_037.037de	0.375	0.375	0.375	0.375	0.0	0.375	0.375	0.0
945	GOB_100.075de	0.25	1.0	0.25	1.0	0.0	1.0	95.6	0.0
946	GOB_087.062de	0.25	0.875	0.25	0.875	0.0	0.875	0.875	0.0
947	GOB_087.075de	0.25	0.875	0.25	0.875	0.0	0.875	0.875	0.0
948	GOB_087.087de	0.25	0.875	0.25	0.875	0.0	0.875	0.875	0.0
949	GOB_087.099de	0.25	0.875	0.25	0.875	0.0	0.875	0.875	0.0
950	GOB_087.100de	0.25	0.875	0.25	0.875	0.0	0.875	0.875	0.0
951	NW_025de	0.25	0.25	0.25	0.25	0.0	0.25	0.25	0.0
952	B50R_025.012de	0.25	0.25	0.25	0.25	0.0	0.25	0.25	0.0
953	B50R_025.025de	0.25	0.25	0.25	0.25	0.0	0.25	0.25	0.0
954	GOB_100.087de	0.125	1.0	0.125	1.0	0.0	1.0	95.6	0.0
955	GOB_087.075de	0.125	0.875	0.125	0.875	0.0	0.875	0.875	0.0
956	GOB_087.062de	0.125	0.875	0.125	0.875	0.0	0.875	0.875	0.0
957	GOB_087.050de	0.125	0.875	0.125	0.875	0.0	0.875	0.875	0.0
958	GOB_087.037de	0.125	0.875	0.125	0.875	0.0	0.875	0.875	0.0
959	GOB_087.025de	0.125	0.875	0.125	0.875	0.0	0.875	0.875	0.0
960	GOB_087.012de	0.125	0.875	0.125	0.875	0.0	0.875	0.875	0.0
961	NW_012de	0.125	0.125	0.125	0.125	0.0	0.125	0.125	0.0
962	B50R_012.012de	0.125	0.125	0.125	0.125	0.0	0.125	0.125	0.0
963	GOB_100.100de	0.0	1.0	0.0	1.0	0.0	1.0	95.6	0.0
964	GOB_087.087de	0.0	0.875	0.0	0.875	0.0	0.875	0.875	0.0
965	GOB_087.075de	0.0	0.875	0.0	0.875	0.0	0.875	0.875	0.0
966	GOB_087.062de	0.0	0.875	0.0	0.875	0.0	0.875	0.875	0.0
967	GOB_087.050de	0.0	0.875	0.0	0.875	0.0	0.875	0.875	0.0
968	GOB_087.037de	0.0	0.875	0.0	0.875	0.0	0.875	0.875	0.0
969	GOB_087.025de	0.0	0.875	0.0	0.875	0.0	0.875	0.875	0.0
970	GOB_087.012de	0.0	0.875	0.0	0.875	0.0	0.875	0.875	0.0
971	NW_000de	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

see similar files: <http://130.149.60.45/~farbmatrik/QE28/QE28.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

QE280-7N; Page 31/33-F

TUB-test chart QE28: hue code: H*=R75Ye
colors and differences, ΔE*

I-1133031-F0

see similar files: <http://130.149.60.45/~farbmatrik/QE28/QE28.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

http://130.149.60.45/~farbmatrik/QE28/QE28L0FA.TXT /PS; 3D-linearization
F: 3D-linearization QE28/QE28LE30FA.DAT in file (F), page 32/33

n	HC* τ -File	rgb-File	ict-File	I_{hs} -File	rgb* τ -File	LabCh* τ -File	$\text{cmv}\tau^{\text{sep}}_{\text{File}}$	$I_{\text{hs},\text{de}}$	rgb* τ -File	LabCh* τ -File
972	NW_000de	0.0	0.0	0.0	0.0	0.0	1.0	360	1.0	956
973	NW_012de	0.125	0.125	0.125	0.125	0.0	0.885	360	1.0	956
974	NW_025de	0.25	0.25	0.25	0.25	0.0	0.743	360	1.0	956
975	NW_037de	0.375	0.375	0.375	0.375	0.0	0.653	360	1.0	956
976	NW_050de	0.5	0.5	0.5	0.5	0.0	0.54	360	1.0	956
977	NW_062de	0.625	0.625	0.625	0.625	0.0	0.417	360	1.0	956
978	NW_075de	0.75	0.75	0.75	0.75	0.0	0.299	360	1.0	956
979	NW_087de	0.875	0.875	0.875	0.875	0.0	0.162	360	1.0	956
980	NW_100de	1.0	1.0	1.0	1.0	0.0	0.0	360	1.0	956
981	NW_000de	0.0	0.0	0.0	0.0	0.0	1.0	360	1.0	956
982	NW_012de	0.125	0.125	0.125	0.125	0.0	0.885	360	1.0	956
983	NW_025de	0.25	0.25	0.25	0.25	0.0	0.743	360	1.0	956
984	NW_037de	0.375	0.375	0.375	0.375	0.0	0.653	360	1.0	956
985	NW_050de	0.5	0.5	0.5	0.5	0.0	0.54	360	1.0	956
986	NW_062de	0.625	0.625	0.625	0.625	0.0	0.417	360	1.0	956
987	NW_075de	0.75	0.75	0.75	0.75	0.0	0.299	360	1.0	956
988	NW_087de	0.875	0.875	0.875	0.875	0.0	0.162	360	1.0	956
989	NW_100de	1.0	1.0	1.0	1.0	0.0	0.0	360	1.0	956
990	NW_000de	0.0	0.0	0.0	0.0	0.0	1.0	360	1.0	956
991	NW_012de	0.125	0.125	0.125	0.125	0.0	0.885	360	1.0	956
992	NW_025de	0.25	0.25	0.25	0.25	0.0	0.743	360	1.0	956
993	NW_037de	0.375	0.375	0.375	0.375	0.0	0.653	360	1.0	956
994	NW_050de	0.5	0.5	0.5	0.5	0.0	0.54	360	1.0	956
995	NW_062de	0.625	0.625	0.625	0.625	0.0	0.417	360	1.0	956
996	NW_075de	0.75	0.75	0.75	0.75	0.0	0.299	360	1.0	956
997	NW_087de	0.875	0.875	0.875	0.875	0.0	0.162	360	1.0	956
998	NW_100de	1.0	1.0	1.0	1.0	0.0	0.0	360	1.0	956
999	NW_000de	0.0	0.0	0.0	0.0	0.0	1.0	360	1.0	956
1000	NW_012de	0.125	0.125	0.125	0.125	0.0	0.885	360	1.0	956
1001	NW_025de	0.25	0.25	0.25	0.25	0.0	0.743	360	1.0	956
1002	NW_037de	0.375	0.375	0.375	0.375	0.0	0.653	360	1.0	956
1003	NW_050de	0.5	0.5	0.5	0.5	0.0	0.54	360	1.0	956
1004	NW_062de	0.625	0.625	0.625	0.625	0.0	0.417	360	1.0	956
1005	NW_075de	0.75	0.75	0.75	0.75	0.0	0.299	360	1.0	956
1006	NW_087de	0.875	0.875	0.875	0.875	0.0	0.162	360	1.0	956
1007	NW_100de	1.0	1.0	1.0	1.0	0.0	0.0	360	1.0	956
1008	NW_000de	0.0	0.0	0.0	0.0	0.0	1.0	360	1.0	956
1009	NW_006de	0.066	0.066	0.066	0.066	0.0	0.935	360	1.0	956
1010	NW_013de	0.133	0.133	0.133	0.133	0.0	0.879	360	1.0	956
1011	NW_020de	0.2	0.2	0.2	0.2	0.0	0.799	360	1.0	956
1012	NW_026de	0.266	0.266	0.266	0.266	0.0	0.731	360	1.0	956
1013	NW_033de	0.333	0.333	0.333	0.333	0.0	0.682	360	1.0	956
1014	NW_040de	0.4	0.4	0.4	0.4	0.0	0.636	360	1.0	956
1015	NW_046de	0.466	0.466	0.466	0.466	0.0	0.594	360	1.0	956
1016	NW_053de	0.533	0.533	0.533	0.533	0.0	0.570	360	1.0	956
1017	NW_060de	0.6	0.6	0.6	0.6	0.0	0.542	360	1.0	956
1018	NW_066de	0.666	0.666	0.666	0.666	0.0	0.509	360	1.0	956
1019	NW_073de	0.734	0.734	0.734	0.734	0.0	0.477	360	1.0	956
1020	NW_080de	0.8	0.8	0.8	0.8	0.0	0.442	360	1.0	956
1021	NW_086de	0.866	0.866	0.866	0.866	0.0	0.414	360	1.0	956
1022	NW_093de	0.933	0.933	0.933	0.933	0.0	0.388	360	1.0	956
1023	NW_100de	1.0	1.0	1.0	1.0	0.0	0.360	360	1.0	956
1024	NW_000de	0.0	0.0	0.0	0.0	0.0	1.0	360	1.0	956
1025	NW_006de	0.066	0.066	0.066	0.066	0.0	0.935	360	1.0	956
1026	NW_013de	0.133	0.133	0.133	0.133	0.0	0.879	360	1.0	956
1027	NW_020de	0.2	0.2	0.2	0.2	0.0	0.799	360	1.0	956
1028	NW_026de	0.266	0.266	0.266	0.266	0.0	0.731	360	1.0	956
1029	NW_033de	0.333	0.333	0.333	0.333	0.0	0.682	360	1.0	956
1030	NW_040de	0.4	0.4	0.4	0.4	0.0	0.636	360	1.0	956
1031	NW_046de	0.466	0.466	0.466	0.466	0.0	0.594	360	1.0	956
1032	NW_053de	0.533	0.533	0.533	0.533	0.0	0.570	360	1.0	956
1033	NW_060de	0.6	0.6	0.6	0.6	0.0	0.542	360	1.0	956
1034	NW_066de	0.666	0.666	0.666	0.666	0.0	0.509	360	1.0	956
1035	NW_073de	0.734	0.734	0.734	0.734	0.0	0.477	360	1.0	956
1036	NW_080de	0.8	0.8	0.8	0.8	0.0	0.442	360	1.0	956
1037	NW_086de	0.866	0.866	0.866	0.866	0.0	0.414	360	1.0	956
1038	NW_093de	0.933	0.933	0.933	0.933	0.0	0.388	360	1.0	956
1039	NW_100de	1.0	1.0	1.0	1.0	0.0	0.360	360	1.0	956
1040	NW_000de	0.0	0.0	0.0	0.0	0.0	1.0	360	1.0	956
1041	NW_006de	0.066	0.066	0.066	0.066	0.0	0.935	360	1.0	956
1042	NW_013de	0.133	0.133	0.133	0.133	0.0	0.879	360	1.0	956
1043	NW_020de	0.2	0.2	0.2	0.2	0.0	0.799	360	1.0	956
1044	NW_026de	0.266	0.266	0.266	0.266	0.0	0.731	360	1.0	956
1045	NW_033de	0.333	0.333	0.333	0.333	0.0	0.682	360	1.0	956
1046	NW_040de	0.4	0.4	0.4	0.4	0.0	0.636	360	1.0	956
1047	NW_046de	0.466	0.466	0.466	0.466	0.0	0.594	360	1.0	956
1048	NW_053de	0.533	0.533	0.533	0.533	0.0	0.570	360	1.0	956
1049	NW_060de	0.6	0.6	0.6	0.6	0.0	0.542	360	1.0	956
1050	NW_066de	0.666	0.666	0.666	0.666	0.0	0.509	360	1.0	956
1051	NW_073de	0.734	0.734	0.734	0.734	0.0	0.477	360	1.0	956
1052	NW_080de	0.8	0.8	0.8	0.8	0.0	0.442	360	1.0	956

Mean color difference of this row

Mean color difference of this page: 0.133 0.140 0.0

