

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 102/360 = 0.28$

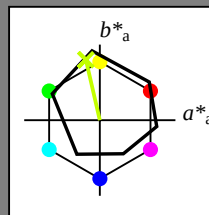
Data for any device (d) or elementary (e) colour:

HIC^*

hue text for the colours of this page:

$H^*_- = Y25G_-$

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):

$LabCh^*_{-,Ma}$: 83 -18 79 81 102

$HIC^*_{-,Ma}$: Y25G_100_100-

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

0.76 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

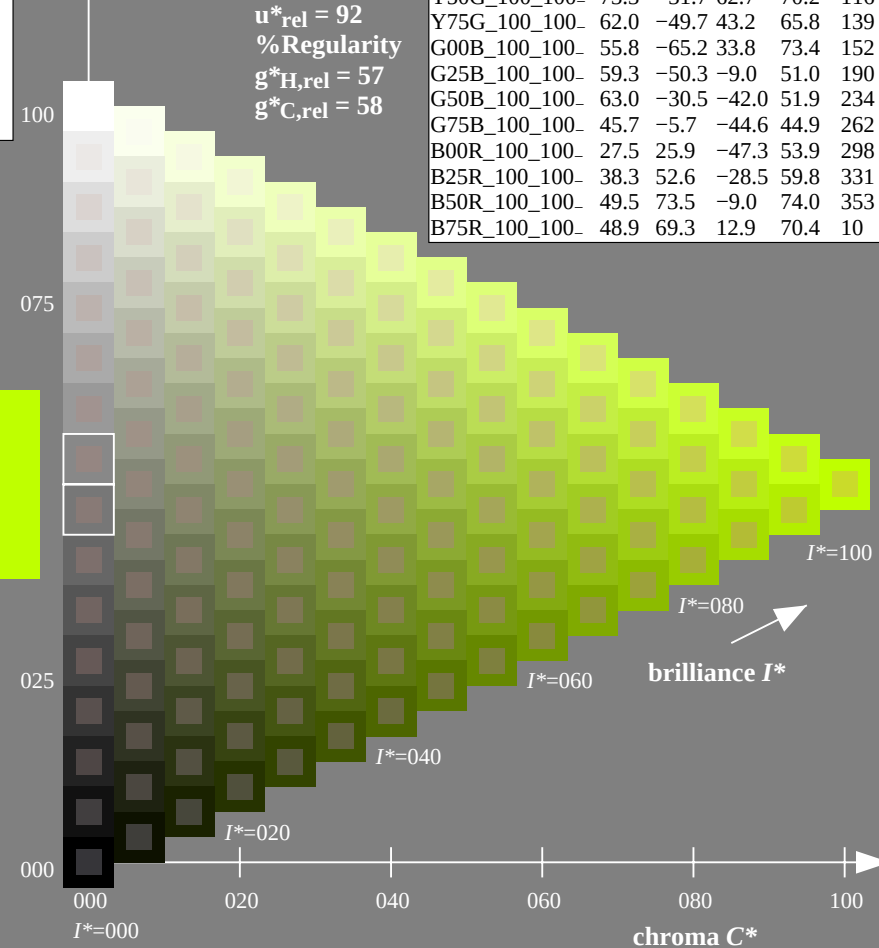
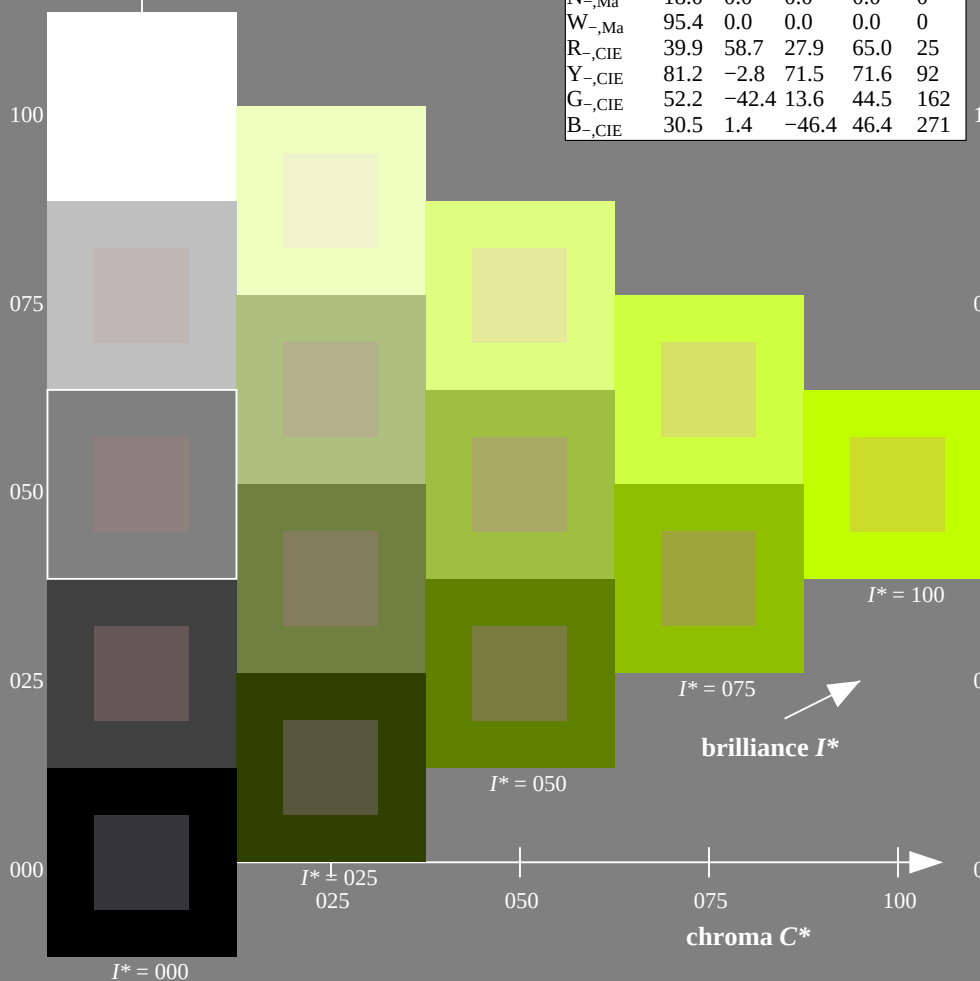
$u^*_{rel} = 92$

% Regularity

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

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

ORS20a; adapted (a) CIELAB data					
H^*_-	$L^*=L^*_a a^*_a$	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
R00Y_100_100-	48.4	66.1	40.2	77.3	31
R25Y_100_100-	56.8	48.0	50.5	69.6	46
R50Y_100_100-	68.6	25.0	63.9	68.6	68
R75Y_100_100-	80.6	4.8	77.2	77.3	86
Y00G_100_100-	90.2	-9.6	88.2	88.7	96
Y25G_100_100-	83.2	-18.4	79.9	81.9	102
Y50G_100_100-	73.3	-31.7	62.7	70.2	116
Y75G_100_100-	62.0	-49.7	43.2	65.8	139
G00B_100_100-	55.8	-65.2	33.8	73.4	152
G25B_100_100-	59.3	-50.3	-9.0	51.0	190
G50B_100_100-	63.0	-30.5	-42.0	51.9	234
G75B_100_100-	45.7	-5.7	-44.6	44.9	262
B00R_100_100-	27.5	25.9	-47.3	53.9	298
B25R_100_100-	38.3	52.6	-28.5	59.8	331
B50R_100_100-	49.5	73.5	-9.0	74.0	353
B75R_100_100-	48.9	69.3	12.9	70.4	10



1-113031-L0 QE480-7N

TUB-test chart QE48; hue code: $H^*_- = Y25G_-$
Test chart according to DIN 33872, 3D=1, de=1, cmy0*

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

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 108/360 = 0.3$

$H^*_e = Y25G_e$

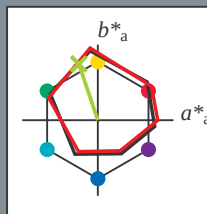
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours
of this page:

$H^*_e = Y25G_e$

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):

$LabCh^*_e, Ma$: 74 -25 74 78 108

HIC^*_e, Ma : Y25G_100_100_e

$rgbic^*_e, Ma$:

0.6 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 92$

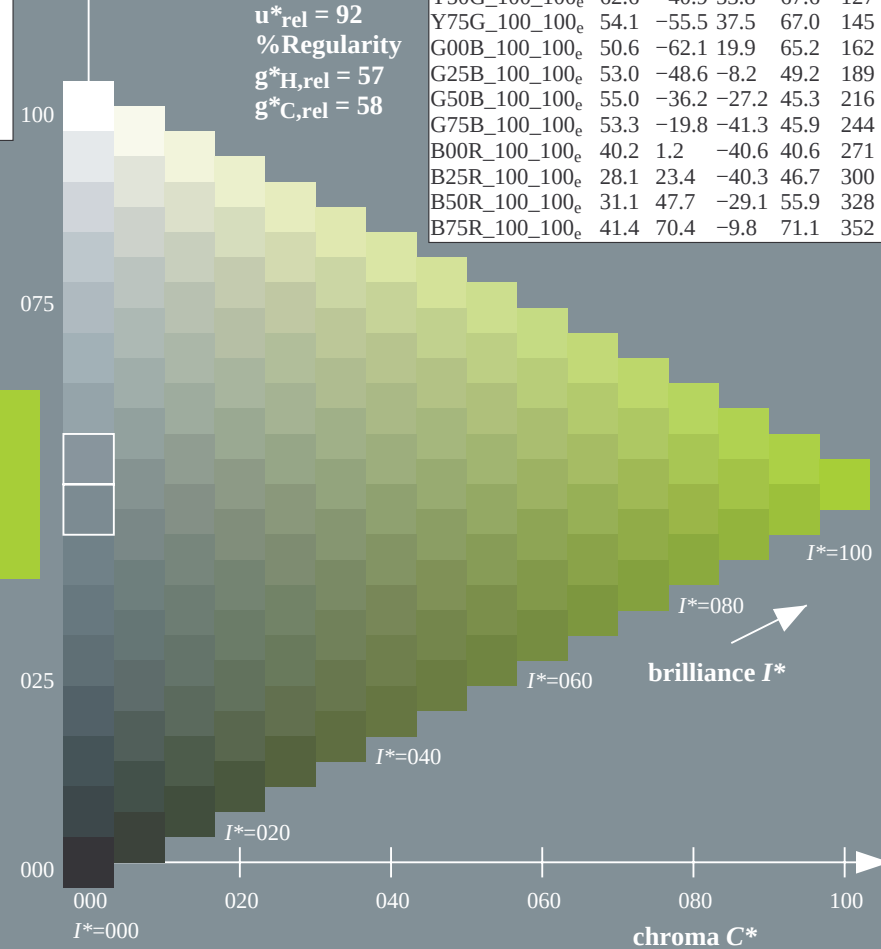
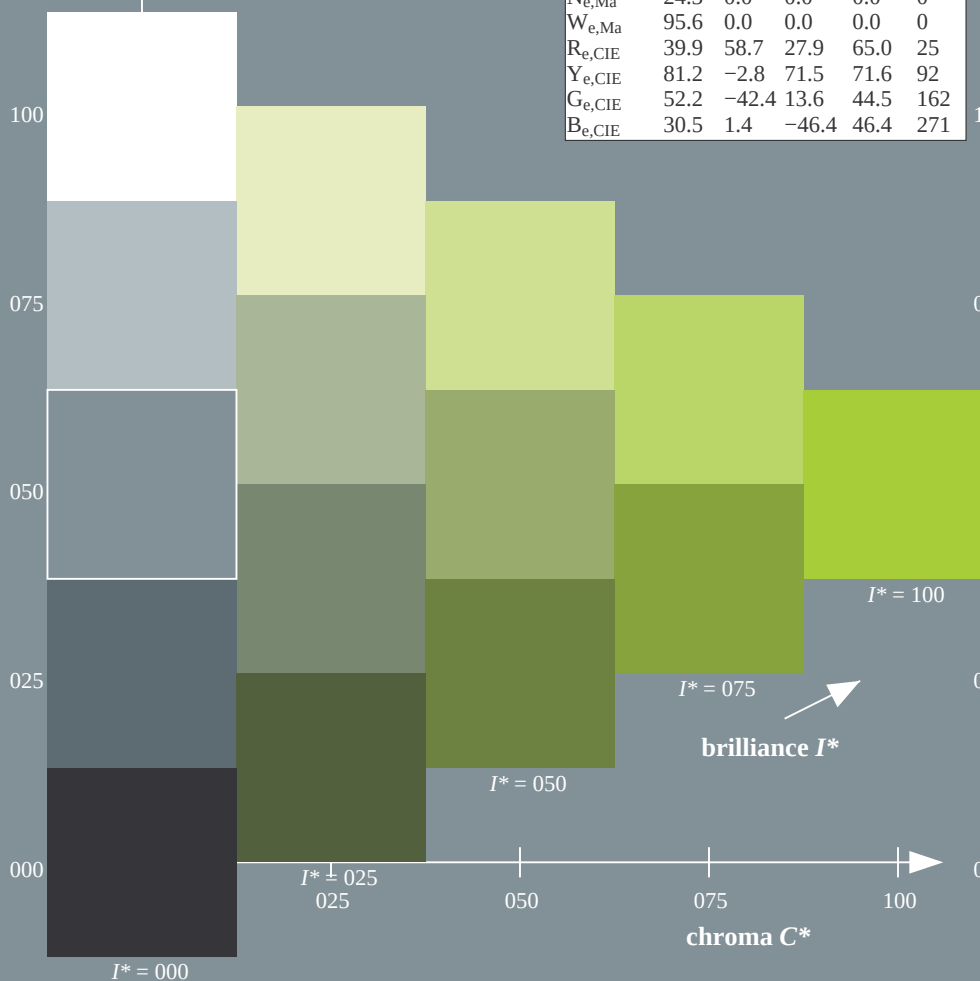
% Regularity

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

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

ORS20a; adapted (a) CIELAB data

H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100 _e	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



TUB-test chart QE48; hue code: $H^*_e = Y25G_e$
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 $h_{ab,a,rel} = h_{ab}/360 = 108/360 = 0.3$

$H^*_e = Y25G_e$

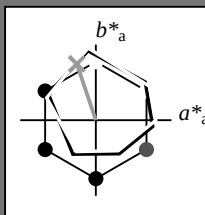
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = Y25G_e$

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):

$LabCh^*_e, Ma$: 74 -25 74 78 108

HIC^*_e, Ma : Y25G_100_100_e

$rgbic^*_e, Ma$:

0.6 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 92$

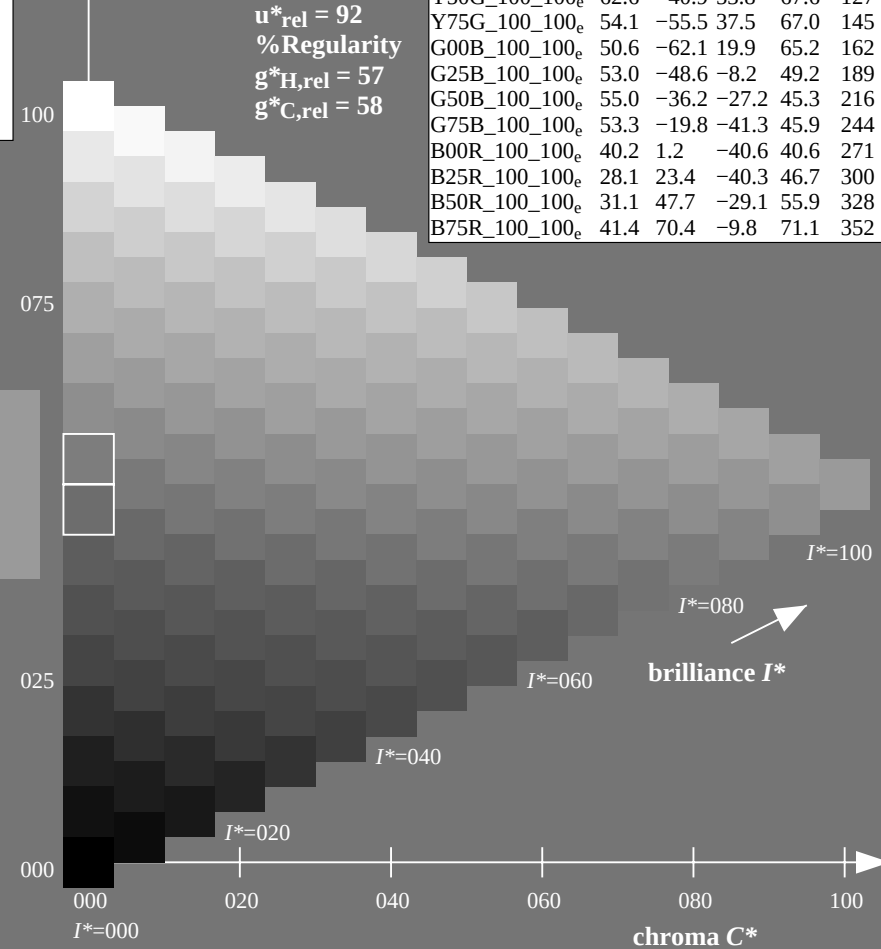
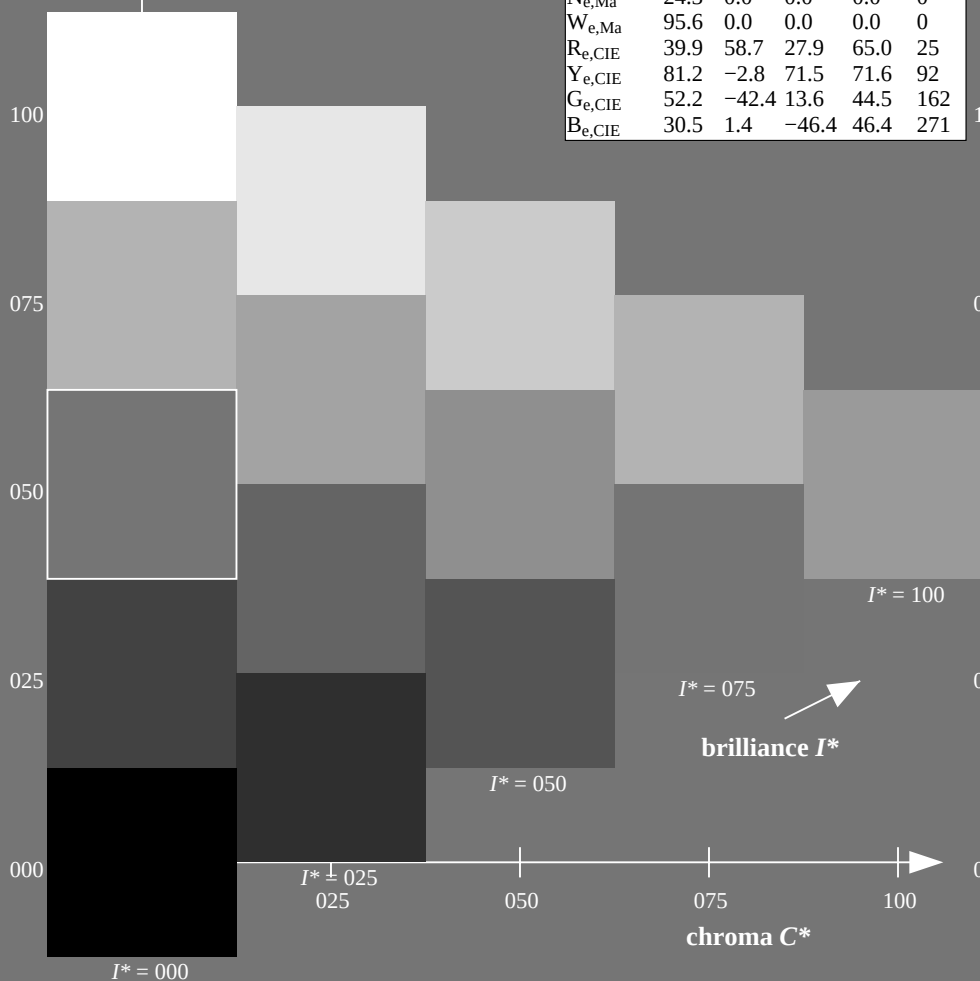
% Regularity

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

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

ORS20a; adapted (a) CIELAB data

H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R00Y_100_100_e$	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 QE480-73

TUB-test chart QE48; hue code: $H^*_e = Y25G_e$
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 $h_{ab,a,rel} = h_{ab}/360 = 108/360 = 0.3$

$H^*_e = Y25G_e$

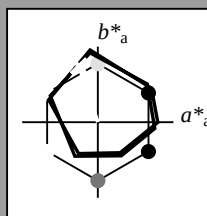
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = Y25G_e$

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
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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):

$LabCh^*_e, Ma$: 74 -25 74 78 108

HIC^*_e, Ma : Y25G_100_100_e

$rgbic^*_e, Ma$:

0.6 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

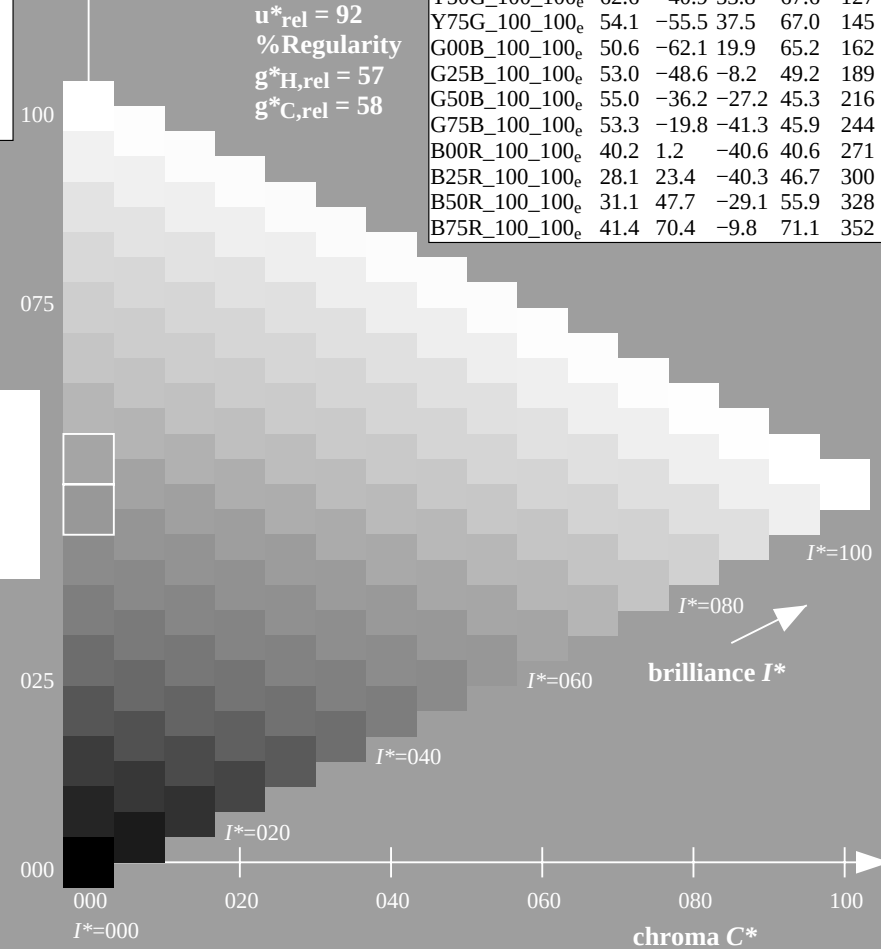
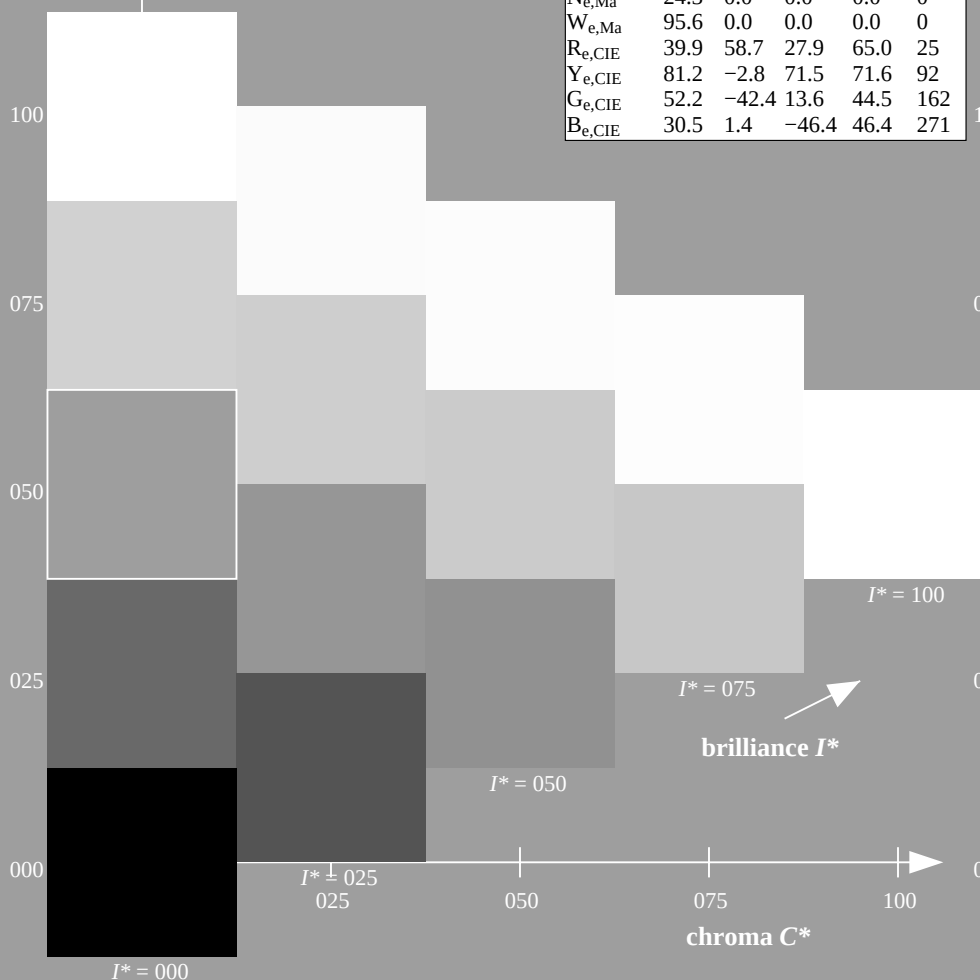
$u^*_{rel} = 92$

% Regularity

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

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

ORS20a; adapted (a) CIELAB data					
H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R00Y_100_100_e$	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
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$B50R_100_100_e$	31.1	47.7	-29.1	55.9	328
$B75R_100_100_e$	41.4	70.4	-9.8	71.1	352



1-113331-L0 QE480-73

TUB-test chart QE48; hue code: $H^*_e = Y25G_e$
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 $h_{ab,a,rel} = h_{ab}/360 = 108/360 = 0.3$

$H^*_e = Y25G_e$

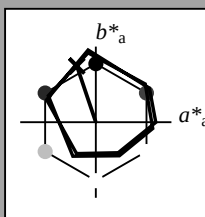
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = Y25G_e$

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
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$N_{e,Ma}$	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):

$LabCh^*_{e,Ma}$: 74 -25 74 78 108

$HIC^*_{e,Ma}$: Y25G_100_100_e

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

0.6 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

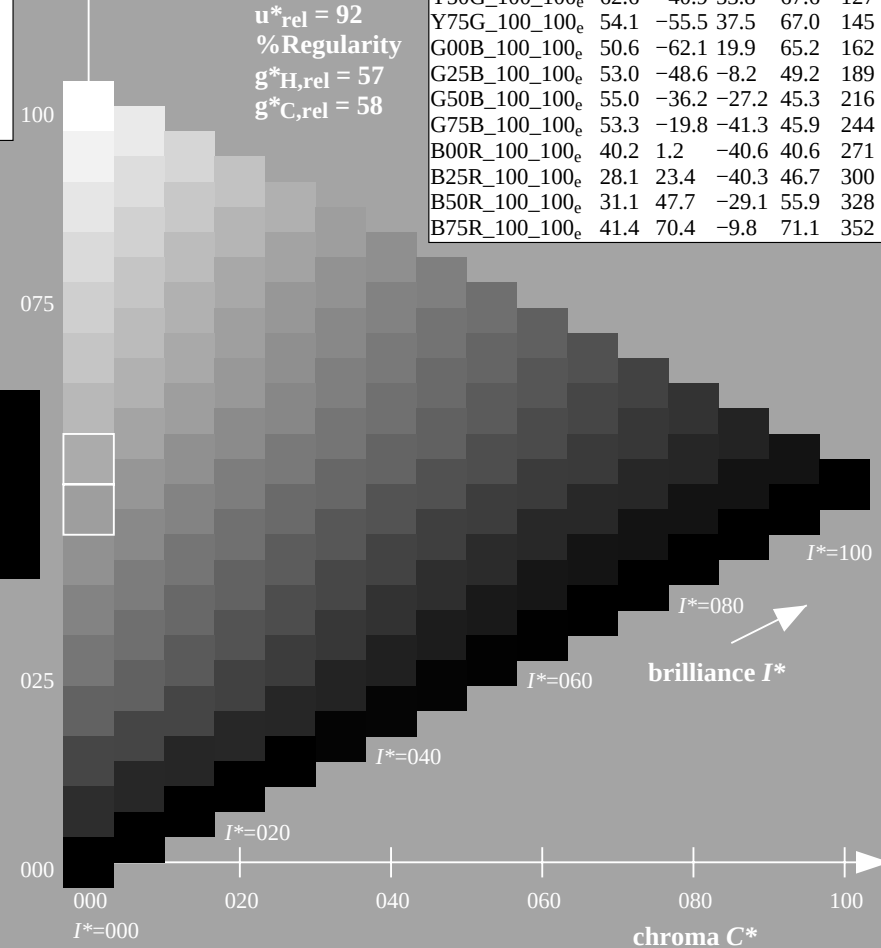
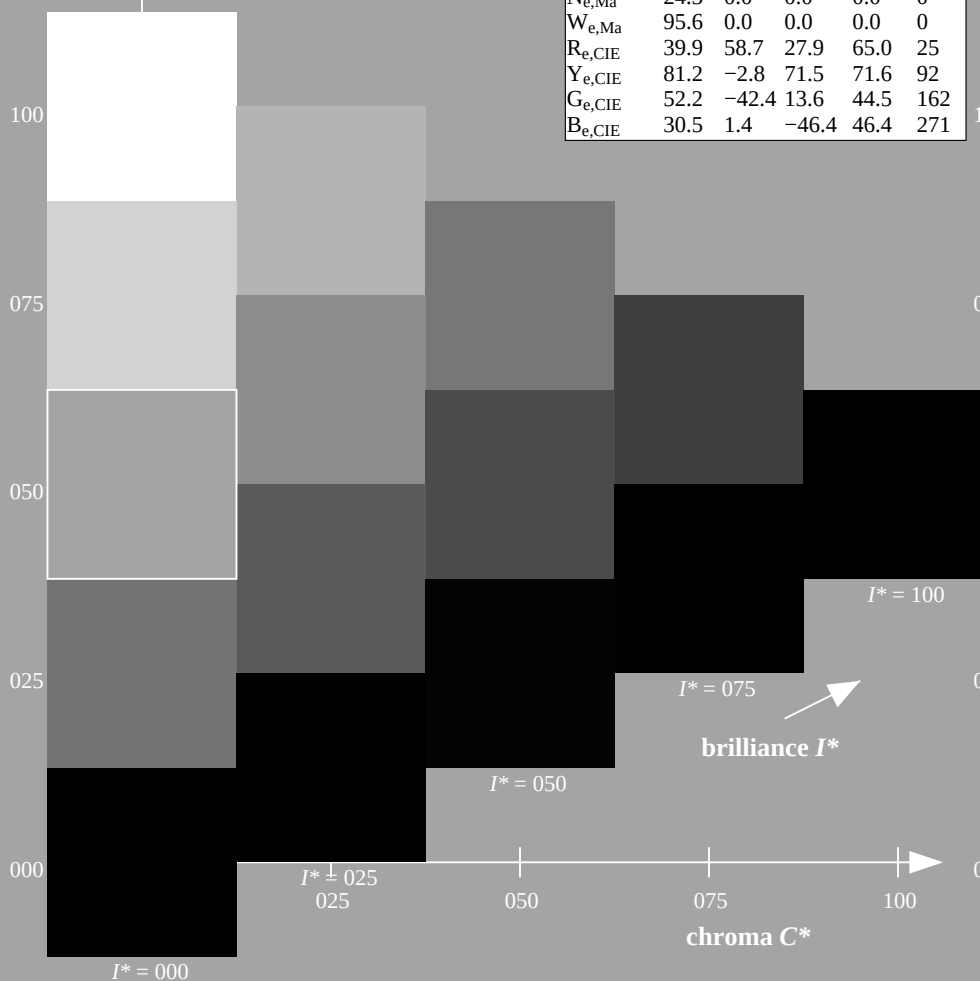
$u^*_{rel} = 92$

% Regularity

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

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

ORS20a; adapted (a) CIELAB data					
H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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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
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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 QE48; hue code: $H^*_e = Y25G_e$
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-QE48/QE48L0FP.PDF /.PS
application for measurement of offset print output, separation $cmY0^*$ (CMY0)

TUB material: code=rha4ta

http://130.149.60.45/~farbmetrik/QE48/QE48L0FP.PDF /.PS; 3D-linearization
F: 3D-linearization QE48/QE48LE30FP.DAT in file (F), page 6/33

see similar files: <http://130.149.60.45/~farbmetrik/QE48/QE48.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

1-113531-L0 QE480-73

TUB-test chart QE48; hue code: $H_e^* = Y25G_e$
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

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

C_s blue-green

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

B_s blue

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

R_s red

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

M_s blue-red

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

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

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

2. For the calculation of the standard hue angle $h_{ab,s}$ use for any device values rgb^* 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 : $h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$ ($i=0,6$) 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 : $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$ ($i=0,6$) 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

1-113631-L0 QE480-73 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

TUB-test chart QE48; hue code: $H^*_e=Y25G_e$
48 step hue circles; $rgb-LabCh^*$ -tables

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

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

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

Lengths of the red colour (nm) for									
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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

QE480-73

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 QE48; hue code: $H^*_e=Y25G_e$
48 step hue circles; $rgb-LabCh^*$ tables

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

TUB registration: 20130201-QE48/QE48L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)
TUB material: code=rha4ta

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

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi}(x=LabCh)$	R_d	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}(x=LabCh)$	R_s	$rgb^*_{dd361Mi}$	$LAB^*_{dex361Mi}(x=LabCh)$	R_e	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
32	30	25	1.0	0.0 0.0	45.4	70.9	44.8	83.9	32	1.0	0.0 0.0	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

QE480-73

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 QE48; hue code: $H^*_e=Y25G_e$
48 step hue circles; $rgb-LabCh$ *tables

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

1-113931-F0

see similar files: <http://130.149.60.45/~farbmetrik/QE48/QE48L0FP.PDF> / .PS
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-QE48/QE48L0FP.PDF / .PS
application for measurement of offset print output, separation cmy0* (CMY0)
TUB material: code=rha4ta

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

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	LAB^*_{d361M}	$LAB^*_{ds361Mi}$	$LAB^*_{dsx361Mi}$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}$	$rgb^*_{dd361Mi}$	$rgb^*_{ds361Mi}$	rgb^*_{ds}	rgb^*_{ds}	rgb^*_{ds}	rgb^*_{ds}																	
86	75	75	1.0	0.75	0.0	77.9	5.4	83.8	84.0	86	1.0	0.585	0.0	69.8	20.0	74.7	77.4	75	1.0	0.75	0.0	1.0	0.592	0.0	70.2	19.3	75.2	77.6	75	1.0	0.75	0.0
87	76	76	1.0	0.766	0.0	78.6	4.3	84.7	84.8	87	1.0	0.596	0.0	70.5	18.8	75.4	77.7	76	1.0	0.767	0.0	1.0	0.604	0.0	70.9	17.9	75.9	78.0	76	1.0	0.767	0.0
87	77	77	1.0	0.783	0.0	79.4	3.2	85.6	85.7	87	1.0	0.607	0.0	71.1	17.6	76.1	78.1	77	1.0	0.783	0.0	1.0	0.616	0.0	71.6	16.5	76.6	78.4	77	1.0	0.783	0.0
88	78	78	1.0	0.8	0.0	80.1	2.0	86.5	86.5	88	1.0	0.618	0.0	71.7	16.3	76.7	78.5	78	1.0	0.8	0.0	1.0	0.63	0.0	72.4	15.1	77.4	78.9	78	1.0	0.8	0.0
89	79	80	1.0	0.816	0.0	80.8	0.8	87.3	87.3	89	1.0	0.631	0.0	72.4	15.1	77.5	78.9	79	1.0	0.817	0.0	1.0	0.648	0.0	73.2	13.8	78.5	79.7	80	1.0	0.817	0.0
90	80	81	1.0	0.833	0.0	81.6	-0.3	88.2	88.2	90	1.0	0.647	0.0	73.2	13.8	78.4	79.6	80	1.0	0.833	0.0	1.0	0.667	0.0	74.1	12.3	79.5	80.5	81	1.0	0.833	0.0
91	81	82	1.0	0.85	0.0	82.3	-1.5	89.0	89.0	91	1.0	0.664	0.0	73.9	12.6	79.4	80.4	81	1.0	0.85	0.0	1.0	0.685	0.0	74.9	10.9	80.5	81.3	82	1.0	0.85	0.0
91	82	83	1.0	0.866	0.0	83.1	-2.8	89.8	89.8	91	1.0	0.68	0.0	74.7	11.3	80.3	81.1	82	1.0	0.867	0.0	1.0	0.703	0.0	75.8	9.4	81.5	82.0	83	1.0	0.867	0.0
92	83	84	1.0	0.883	0.0	83.7	-3.8	90.5	90.6	92	1.0	0.697	0.0	75.5	10.0	81.2	81.8	83	1.0	0.883	0.0	1.0	0.721	0.0	76.6	7.9	82.4	82.8	84	1.0	0.883	0.0
92	84	85	1.0	0.9	0.0	84.3	-4.7	91.3	91.4	92	1.0	0.713	0.0	76.2	8.6	82.0	82.5	84	1.0	0.9	0.0	1.0	0.74	0.0	77.5	6.4	83.4	83.6	85	1.0	0.9	0.0
93	85	86	1.0	0.916	0.0	84.9	-5.6	92.0	92.2	93	1.0	0.729	0.0	77.0	7.2	82.9	83.2	85	1.0	0.917	0.0	1.0	0.76	0.0	78.4	4.8	84.4	84.6	86	1.0	0.917	0.0
94	86	87	1.0	0.933	0.0	85.5	-6.5	92.7	92.9	94	1.0	0.746	0.0	77.7	5.9	83.7	83.9	86	1.0	0.933	0.0	1.0	0.784	0.0	79.4	3.2	85.7	85.7	87	1.0	0.933	0.0
94	87	88	1.0	0.95	0.0	86.0	-7.4	93.4	93.7	94	1.0	0.766	0.0	78.6	4.4	84.7	84.8	87	1.0	0.95	0.0	1.0	0.807	0.0	80.5	1.6	86.9	86.9	88	1.0	0.95	0.0
95	88	90	1.0	0.966	0.0	86.6	-8.3	94.1	94.5	95	1.0	0.787	0.0	79.6	3.0	85.8	85.9	88	1.0	0.967	0.0	1.0	0.831	0.0	81.5	0.0	88.1	88.1	90	1.0	0.967	0.0
95	89	91	1.0	0.983	0.0	87.2	-9.2	94.8	95.2	95	1.0	0.808	0.0	80.5	1.5	86.9	86.9	89	1.0	0.983	0.0	1.0	0.854	0.0	82.6	-1.8	89.2	89.3	91	1.0	0.983	0.0
96	90	92	1.0	1.0	0.0	87.8	-10.2	95.4	96.0	96	1.0	0.829	0.0	81.4	0.0	88.0	88.0	90	1.0	1.0	0.0	1.0	0.879	0.0	83.6	-3.6	90.4	90.5	92	1.0	1.0	0.0
96	91	93	0.983	1.0	0.0	87.3	-10.7	94.6	95.2	96	1.0	0.85	0.0	82.4	-1.5	89.0	89.0	91	0.983	1.0	0.0	1.0	0.916	0.0	84.9	-5.5	92.0	92.2	93	0.983	1.0	0.0
96	92	94	0.966	1.0	0.0	86.8	-11.2	93.8	94.5	96	1.0	0.871	0.0	83.3	-3.0	90.0	90.1	92	0.967	1.0	0.0	1.0	0.953	0.0	86.2	-7.5	93.6	93.9	94	0.967	1.0	0.0
97	93	95	0.95	1.0	0.0	86.4	-11.7	93.0	93.7	97	1.0	0.901	0.0	84.4	-4.7	91.4	91.5	93	0.95	1.0	0.0	1.0	0.99	0.0	87.5	-9.6	95.1	95.6	95	0.95	1.0	0.0
97	94	96	0.933	1.0	0.0	85.9	-12.2	92.2	93.0	97	1.0	0.933	0.0	85.5	-6.4	92.7	93.0	94	0.933	1.0	0.0	0.961	1.0	0.0	86.7	-11.3	93.6	94.3	96	0.933	1.0	0.0
97	95	98	0.916	1.0	0.0	85.5	-12.7	91.3	92.2	97	1.0	0.965	0.0	86.6	-8.1	94.1	94.4	95	0.917	1.0	0.0	0.907	1.0	0.0	85.3	-12.9	90.9	91.8	98	0.917	1.0	0.0
98	96	99	0.9	1.0	0.0	85.0	-13.2	90.5	91.5	98	1.0	0.997	0.0	87.7	-9.9	95.4	95.9	96	0.9	1.0	0.0	0.856	1.0	0.0	83.8	-14.4	88.4	89.6	99	0.9	1.0	0.0
98	97	100	0.883	1.0	0.0	84.5	-13.6	89.7	90.7	98	0.959	1.0	0.0	86.7	-11.4	93.5	94.2	97	0.883	1.0	0.0	0.807	1.0	0.0	82.4	-15.8	86.2	87.7	100	0.883	1.0	0.0
99	98	101	0.866	1.0	0.0	84.1	-14.1	88.9	90.0	99	0.914	1.0	0.0	85.4	-12.7	91.2	92.1	98	0.867	1.0	0.0	0.759	1.0	0.0	81.0	-17.2	84.0	85.7	101	0.867	1.0	0.0
99	99	102	0.85	1.0	0.0	83.6	-14.6	88.1	89.3	99	0.869	1.0	0.0	84.2	-14.0	89.0	90.1	99	0.85	1.0	0.0	0.729	1.0	0.0	79.9	-18.6	82.3	84.4	102	0.85	1.0	0.0
99	100	103	0.833	1.0	0.0	83.1	-15.1	87.4	88.7	99	0.827	1.0	0.0	83.0	-15.3	87.1	88.5	100	0.833	1.0	0.0	0.704	1.0	0.0	78.8	-20.0	80.8	83.2	103	0.833	1.0	0.0
100	101	105	0.816	1.0	0.0	82.6	-15.6	86.6	88.0	100	0.785	1.0	0.0	81.8	-16.5	85.2	86.8	101	0.817	1.0	0.0	0.679	1.0	0.0	77.7	-21.3	79.2	82.0	105	0.817	1.0	0.0
100	102	106	0.8	1.0	0.0	82.2	-16.1	85.8	87.3	100	0.747	1.0	0.0	80.6	-17.6	83.4	85.2	102	0.8	1.0	0.0	0.654	1.0	0.0	76.6	-22.6	77.6	80.8	106	0.8	1.0	0.0
101	103	107	0.783	1.0	0.0	81.7	-16.6	85.1	86.7	101	0.725	1.0	0.0	79.7	-18.8	82.0	84.2	103	0.783	1.0	0.0	0.628	1.0	0.0	75.5	-23.8	76.0	79.6	107	0.783	1.0	0.0
101	104	108	0.766	1.0	0.0	81.2	-17.0	84.3	86.0	101	0.703	1.0	0.0	78.7	-20.0	80.7	83.2	104	0.767	1.0	0.0	0.605	1.0	0.0	74.6	-25.0	74.3	78.4	108	0.767	1.0	0.0
101	105	109	0.75	1.0	0.0	80.7	-17.5	83.5	85.3	101	0.682	1.0	0.0	77.8	-21.2	79.4	82.2	105	0.75	1.0	0.0	0.583	1.0	0.0	73.7	-26.1	72.7	77.3	109	0.75	1.0	0.0
102	106	110	0.733	1.0	0.0	80.0	-18.4	82.5	84.6	102	0.66	1.0	0.0	76.8	-22.3	78.0	81.1	106	0.733	1.0	0.0	0.56	1.0	0.0	72.9	-27.1	71.0	76.1	110	0.733	1.0	0.0
103	107	112	0.716	1.0	0.0	79.3	-19.3	81.5	83.8	103	0.638	1.0	0.0	75.9	-23.3	76.6	80.1	107	0.717	1.0	0.0	0.538	1.0	0.0	72.0	-28.1	69.3	74.9	112	0.717	1.0	0.0
104	108	113	0.7	1.0	0.0	78.5	-20.2	80.5	83.0	104	0.617	1.0	0.0	75.0	-24.3	75.2	79.1	108	0.7	1.0	0.0	0.515	1.0	0.0	71.2	-29.0	67.7	73.7	113	0.7	1.0	0.0
104	109	114	0.683	1.0	0.0	77.8	-21.1	79.4	82.2	104	0.598	1.0	0.0	74.3	-25.3	73.8	78.1	109	0.683	1.0	0.0	0.494	1.0	0.0	70.4	-30.0	66.1	72.6	114	0.683	1.0	0.0
105	110	115	0.666	1.0	0.0	77.1	-22.0	78.4	81.4	105	0.579	1.0	0.0	73.6	-26.2	72.4	77.0	110	0.667	1.0	0.0	0.474	1.0	0.0	69.6	-31.0	64.8	71.9	115	0.667	1.0	0.0
106	111	116	0.65	1.0	0.0	76.4	-22.8	77.3	80.6	106	0.559	1.0	0.0	72.9	-27.1	71.0	76.0	111	0.65	1.0	0.0	0.454	1.0	0.0	68.8	-32.0	63.5	71.2	116	0.65	1.0	0.0
107	112	117	0.633	1.0	0.0	75.6	-23.6	76.2	79.8	107	0.54	1.0	0.0	72.1	-28.0	69.5	75.0	112	0.633	1.0	0.0	0.434	1.0	0.0	68.0	-32.9	62.2	70.5	117	0.633	1.0	0.0
108	113	119	0.616	1.0	0.0	75.0	-24.4	75.1	79.0	108	0.521	1.0	0.0	71.4	-28.8	68.1	74.0	113	0.617	1.0	0.0	0.414	1.0	0.0	67.3	-33.8	60.9	69.7	119	0.617	1.0	0.0
108	114	120	0.6	1.0	0.0	74.3	-25.3	73.9	78.1	108	0.501	1.0	0.0	70.7	-29.6	66.6	72.9	114	0.6	1.0	0.0	0.394	1.0	0.0	66.5	-34.7	59.6	69.0	120	0.6	1.0	0.0
109	115	121	0.583	1.0	0.0	73.7	-26.1	72.7	77.2	109	0.484	1.0	0.0	70.0	-30.4	65.5	72.3	115	0.583	1.0	0.0	0.375	1.0	0.0	65.7	-35.5	58.3	68.3	121	0.583	1.0	0.0
110	116	122	0.566	1.0																												

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

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{dd361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$rgb^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}																			
114	120	127	0.5	1.0	0.0	70.6	-29.7	66.5	72.8	114	0.399	1.0	0.0	66.7	-34.5	59.9	69.2	120	0.5	1.0	0.0	0.322	1.0	0.0	62.6	-40.8	53.8	67.6	127	0.5	1.0	0.0
115	121	128	0.483	1.0	0.0	69.9	-30.5	65.4	72.2	115	0.382	1.0	0.0	66.0	-35.2	58.8	68.6	121	0.483	1.0	0.0	0.312	1.0	0.0	62.0	-41.8	52.9	67.5	128	0.483	1.0	0.0
116	122	129	0.466	1.0	0.0	69.3	-31.4	64.3	71.6	116	0.37	1.0	0.0	65.4	-36.1	57.9	68.3	122	0.467	1.0	0.0	0.301	1.0	0.0	61.4	-42.8	51.9	67.3	129	0.467	1.0	0.0
117	123	130	0.45	1.0	0.0	68.6	-32.2	63.2	71.0	117	0.361	1.0	0.0	64.9	-37.0	57.1	68.1	123	0.45	1.0	0.0	0.291	1.0	0.0	60.8	-43.8	50.9	67.2	130	0.45	1.0	0.0
117	124	131	0.433	1.0	0.0	68.0	-33.0	62.1	70.4	117	0.352	1.0	0.0	64.4	-37.9	56.4	68.0	124	0.433	1.0	0.0	0.28	1.0	0.0	60.2	-44.7	49.9	67.0	131	0.433	1.0	0.0
118	125	133	0.416	1.0	0.0	67.3	-33.8	61.0	69.8	118	0.343	1.0	0.0	63.8	-38.8	55.6	67.9	125	0.417	1.0	0.0	0.27	1.0	0.0	59.6	-45.6	48.9	66.9	133	0.417	1.0	0.0
119	126	134	0.4	1.0	0.0	66.7	-34.5	59.9	69.2	119	0.334	1.0	0.0	63.3	-39.7	54.8	67.8	126	0.4	1.0	0.0	0.259	1.0	0.0	59.0	-46.5	47.8	66.8	134	0.4	1.0	0.0
120	127	135	0.383	1.0	0.0	66.0	-35.2	58.8	68.6	120	0.325	1.0	0.0	62.8	-40.6	54.0	67.6	127	0.383	1.0	0.0	0.249	1.0	0.0	58.4	-47.4	46.8	66.6	135	0.383	1.0	0.0
122	128	136	0.366	1.0	0.0	65.2	-36.4	57.6	68.2	122	0.316	1.0	0.0	62.3	-41.5	53.2	67.5	128	0.367	1.0	0.0	0.233	1.0	0.0	57.9	-48.3	45.8	66.6	136	0.367	1.0	0.0
124	129	137	0.35	1.0	0.0	64.2	-38.2	56.2	67.9	124	0.307	1.0	0.0	61.7	-42.3	52.4	67.4	129	0.35	1.0	0.0	0.217	1.0	0.0	57.4	-49.2	44.7	66.6	137	0.35	1.0	0.0
126	130	138	0.333	1.0	0.0	63.2	-39.8	54.7	67.7	126	0.298	1.0	0.0	61.2	-43.1	51.5	67.3	130	0.333	1.0	0.0	0.201	1.0	0.0	57.0	-50.0	43.7	66.5	138	0.333	1.0	0.0
127	131	140	0.316	1.0	0.0	62.3	-41.4	53.2	67.5	127	0.289	1.0	0.0	60.7	-44.0	50.7	67.2	131	0.317	1.0	0.0	0.185	1.0	0.0	56.5	-50.9	42.7	66.5	140	0.317	1.0	0.0
129	132	141	0.3	1.0	0.0	61.3	-43.0	51.7	67.3	129	0.28	1.0	0.0	60.2	-44.8	49.8	67.0	132	0.3	1.0	0.0	0.169	1.0	0.0	56.0	-51.7	41.6	66.5	141	0.3	1.0	0.0
131	133	142	0.283	1.0	0.0	60.3	-44.5	50.1	67.0	131	0.271	1.0	0.0	59.6	-45.5	48.9	66.9	133	0.283	1.0	0.0	0.153	1.0	0.0	55.5	-52.5	40.5	66.4	142	0.283	1.0	0.0
133	134	143	0.266	1.0	0.0	59.3	-45.9	48.5	66.8	133	0.262	1.0	0.0	59.1	-46.3	48.0	66.8	134	0.267	1.0	0.0	0.137	1.0	0.0	55.1	-53.3	39.4	66.4	143	0.267	1.0	0.0
135	135	144	0.25	1.0	0.0	58.4	-47.3	46.8	66.6	135	0.253	1.0	0.0	58.6	-47.0	47.1	66.7	135	0.25	1.0	0.0	0.122	1.0	0.0	54.6	-54.2	38.4	66.5	144	0.25	1.0	0.0
136	136	145	0.233	1.0	0.0	57.9	-48.3	45.8	66.5	136	0.241	1.0	0.0	58.1	-47.8	46.3	66.6	136	0.233	1.0	0.0	0.108	1.0	0.0	54.1	-55.4	37.6	67.0	145	0.233	1.0	0.0
137	137	147	0.216	1.0	0.0	57.4	-49.2	44.7	66.5	137	0.227	1.0	0.0	57.7	-48.6	45.4	66.6	137	0.217	1.0	0.0	0.095	1.0	0.0	53.6	-56.6	36.7	67.6	147	0.217	1.0	0.0
138	138	148	0.2	1.0	0.0	56.9	-50.1	43.6	66.5	138	0.213	1.0	0.0	57.3	-49.4	44.5	66.6	138	0.2	1.0	0.0	0.082	1.0	0.0	53.1	-57.8	35.8	68.1	148	0.2	1.0	0.0
140	139	149	0.183	1.0	0.0	56.4	-51.0	42.5	66.4	140	0.2	1.0	0.0	56.9	-50.1	43.6	66.5	139	0.183	1.0	0.0	0.069	1.0	0.0	52.6	-59.0	34.9	68.6	149	0.183	1.0	0.0
141	140	150	0.166	1.0	0.0	55.9	-51.9	41.4	66.4	141	0.186	1.0	0.0	56.5	-50.8	42.7	66.5	140	0.167	1.0	0.0	0.056	1.0	0.0	52.1	-60.1	34.0	69.2	150	0.167	1.0	0.0
142	141	151	0.15	1.0	0.0	55.4	-52.7	40.3	66.4	142	0.172	1.0	0.0	56.1	-51.6	41.8	66.5	141	0.15	1.0	0.0	0.043	1.0	0.0	51.7	-61.3	33.0	69.7	151	0.15	1.0	0.0
143	142	152	0.133	1.0	0.0	54.9	-53.5	39.1	66.3	143	0.159	1.0	0.0	55.7	-52.3	40.9	66.4	142	0.133	1.0	0.0	0.03	1.0	0.0	51.2	-62.4	32.0	70.2	152	0.133	1.0	0.0
145	143	154	0.116	1.0	0.0	54.4	-54.7	38.0	66.6	145	0.145	1.0	0.0	55.3	-52.9	40.0	66.4	143	0.117	1.0	0.0	0.016	1.0	0.0	50.7	-63.5	30.9	70.8	154	0.117	1.0	0.0
146	144	155	0.1	1.0	0.0	53.7	-56.2	37.0	67.3	146	0.131	1.0	0.0	54.9	-53.6	39.0	66.4	144	0.1	1.0	0.0	0.003	1.0	0.0	50.2	-64.6	29.9	71.3	155	0.1	1.0	0.0
148	145	156	0.083	1.0	0.0	53.1	-57.7	35.9	68.0	148	0.119	1.0	0.0	54.5	-54.5	38.2	66.6	145	0.083	1.0	0.0	0.0	1.0	0.021	50.1	-64.6	28.3	70.6	156	0.083	1.0	0.0
149	146	157	0.066	1.0	0.0	52.5	-59.2	34.7	68.7	149	0.107	1.0	0.0	54.1	-55.5	37.5	67.1	146	0.067	1.0	0.0	0.0	1.0	0.049	50.3	-64.2	26.5	69.5	157	0.067	1.0	0.0
151	147	158	0.049	1.0	0.0	51.9	-60.7	33.5	69.4	151	0.096	1.0	0.0	53.7	-56.5	36.8	67.5	147	0.05	1.0	0.0	0.0	1.0	0.077	50.4	-63.7	24.8	68.4	158	0.05	1.0	0.0
152	148	159	0.033	1.0	0.0	51.3	-62.2	32.2	70.0	152	0.085	1.0	0.0	53.2	-57.6	36.0	68.0	148	0.033	1.0	0.0	0.0	1.0	0.104	50.5	-63.1	23.1	67.3	159	0.033	1.0	0.0
154	149	161	0.016	1.0	0.0	50.6	-63.6	30.9	70.7	154	0.074	1.0	0.0	52.8	-58.6	35.3	68.4	149	0.017	1.0	0.0	0.0	1.0	0.13	50.6	-62.6	21.5	66.3	161	0.017	1.0	0.0
155	150	162	0.0	1.0	0.0	50.0	-65.0	29.6	71.4	155	G _d 0.062	1.0	0.0	52.4	-59.6	34.5	68.9	150	G _s 0.0	1.0	0.0	0.0	1.0	0.151	50.7	-62.0	19.9	65.2	162	G _e 0.0	1.0	0.0
156	151	163	0.0	1.0	0.016	50.1	-64.7	28.5	70.7	156	0.051	1.0	0.0	52.0	-60.6	33.6	69.4	151	0.0	1.0	0.017	0.0	1.0	0.167	50.8	-61.6	18.7	64.4	163	0.0	1.0	0.017
156	152	164	0.0	1.0	0.033	50.1	-64.5	27.4	70.1	156	0.04	1.0	0.0	51.5	-61.6	32.8	69.8	152	0.0	1.0	0.033	0.0	1.0	0.183	50.9	-61.1	17.5	63.6	164	0.0	1.0	0.033
157	153	164	0.0	1.0	0.05	50.2	-64.2	26.4	69.4	157	0.028	1.0	0.0	51.1	-62.5	31.9	70.3	153	0.0	1.0	0.05	0.0	1.0	0.2	51.0	-60.6	16.3	62.8	164	0.0	1.0	0.05
158	154	165	0.0	1.0	0.066	50.3	-63.9	25.4	68.8	158	0.017	1.0	0.0	50.7	-63.5	31.0	70.7	154	0.0	1.0	0.067	0.0	1.0	0.216	51.0	-60.0	15.1	62.0	165	0.0	1.0	0.067
159	155	166	0.0	1.0	0.083	50.3	-63.6	24.4	68.1	159	0.006	1.0	0.0	50.3	-64.4	30.1	71.2	155	0.0	1.0	0.083	0.0	1.0	0.232	51.1	-59.5	14.0	61.2	166	0.0	1.0	0.083
159	156	167	0.0	1.0	0.1	50.4	-63.3	23.4	67.5	159	0.0	1.0	0.012	50.1	-64.7	28.9	71.0	156	0.0	1.0	0.1	0.0	1.0	0.248	51.2	-58.9	12.9	60.4	167	0.0	1.0	0.1
160	157	168	0.0	1.0	0.116	50.5	-62.9	22.4	66.8	160	0.0	1.0	0.035	50.2	-64.4	27.4	70.0	157	0.0	1.0	0.117	0.0	1.0	0.261	51.3	-58.5	11.8	59.8	168	0.0	1.0	0.117
161	158	169	0.0	1.0	0.133	50.5	-62.5	21.2	66.1	161	0.0	1.0	0.059	50.3	-64.0	25.9	69.1	158	0.0	1.0	0.133	0.0	1.0	0.274	51.4	-58.1	10.8	59.2	169	0.0	1.0	0.133
162	159	170	0.0	1.0	0.15	50.6	-62.1	19.9	65.2	162	0.0	1.0	0.083	50.4	-63.5	24.4	68.2	159	0.0	1.0	0.15	0.0	1.0	0.287	51.5	-57.7	9.7	58.6	170	0.0	1.0	0.15
163	160	171	0.0	1.0	0.166	50.7	-61.6	18.7	64.4	163	0.0	1.0	0.107	50.5	-63.1	23.0																

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

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 $RYGCBM_s$: $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$;
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 $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Angles of the basic colours (x=LabCh) (x=LabCh)										Angles of the elementary colours (x=LabCh)										Angles of the elementary colours (x=LabCh)										Angles of the elementary colours (x=LabCh)																																																																																																																																																																																																																																																																																																														
h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* _{dd361Mi}	LAB* _{ddx361Mi} (x=LabCh)	rgb* _{ds361Mi}	LAB* _{dsx361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} 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(x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi} (x=LabCh)	rgb* _{dd361Mi}	LAB* _{dex361Mi</}

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

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{dd361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{dd361Mi}$	$rgb^*_{ds361Mi}$	$rgb^*_{ds361Mi}$	$rgb^*_{ds361Mi}$
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
306	270	271	0.0	0.0 1.0	25.0	29.5	-40.4 50.0	306	0.0	0.479 1.0	41.0	0.0	-40.6 40.7	270
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
331	291	291	0.35 0.0	1.0	32.0	49.9	-27.5 57.0	331	0.0	0.232 1.0	32.2	15.5	-40.2 43.2	291
332	292	292	0.366 0.0	1.0	32.5	51.2	-26.5 57.7	332	0.0	0.219 1.0	31.8	16.3	-40.3 43.6	292
333	293	293	0.383 0.0	1.0	32.9	52.3	-25.7 58.3	333	0.0	0.205 1.0	31.4	17.2	-40.3 43.9	293
334	294	294	0.4 0.0	1.0	33.3	53.2	-25.0 58.8	334	0.0	0.192 1.0	30.9	18.0	-40.3 44.3	294
335	295	295	0.416 0.0	1.0	33.7	54.1	-24.4 59.4	335	0.0	0.179 1.0	30.5	18.9	-40.4 44.6	295
336	296	296	0.433 0.0	1.0	34.0	55.0	-23.7 59.9	336	0.0	0.166 1.0	30.0	19.7	-40.3 45.0	296
337	297	297	0.45 0.0	1.0	34.4	55.9	-23.0 60.5	337	0.0	0.152 1.0	29.6	20.6	-40.3 45.4	297
338	298	298	0.466 0.0	1.0	34.8	56.8	-22.2 61.0	338	0.0	0.139 1.0	29.1	21.5	-40.3 45.7	298
339	299	299	0.483 0.0	1.0	35.2	57.7	-21.5 61.6	339	0.0	0.126 1.0	28.7	22.3	-40.2 46.1	299
340	300	300	0.5 0.0	1.0	35.6	58.6	-20.7 62.1	340	0.0	0.109 1.0	28.2	23.3	-40.3 46.6	300

1-1131431-L0 QE480-73 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 15/33

TUB-test chart QE48; hue code: $H^*_e=Y25G_e$
48 step hue circles; $rgb-LabCh$ *tables

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

TUB registration: 20130201-QE48/QE48L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)
TUB material: code=rha4ta

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

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{ds361M}	LAB^*_{d361M}	$LAB^*_{ds361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mi}$	rgb^*_{de361M}	LAB^*_{de361M}	$rgb^*_{de361Mi} (x=LabCh)$	$rgb^*_{de361Mi}$	$LAB^*_{de361Mi}$	$rgb^*_{de361Mi}$	rgb^*_{ds}	rgb^*_{de}																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
340	300	300	0.5	0.0	1.0	35.6	58.6	-20.7	62.1	340	0.0	0.109	1.0	28.2	23.3	-40.3	46.6	300	0.5	0.0	1.0	0.0	0.106	1.0	28.1	23.5	-40.3	46.7	300	0.5	0.0	1.0	0.0	0.089	1.0	27.6	24.4	-40.3	47.2	301	0.517	0.0	1.0	0.0	0.073	1.0	27.2	25.4	-40.4	47.8	302	0.533	0.0	1.0	0.0	0.056	1.0	26.7	26.3	-40.4	48.3	303	0.55	0.0	1.0	0.0	0.039	1.0	26.2	27.3	-40.4	48.9	304	0.567	0.0	1.0	0.0	0.023	1.0	25.7	28.2	-40.4	49.4	304	0.583	0.0	1.0	0.0	0.004	1.0	25.2	29.4	-40.3	50.0	306	0.6	0.0	1.0	0.009	0.0	1.0	25.3	30.1	-40.1	50.2	306	0.617	0.0	1.0	0.026	0.0	1.0	25.7	31.0	-39.6	50.3	308	0.633	0.0	1.0	0.041	0.0	1.0	26.0	31.8	-39.1	50.5	309	0.65	0.0	1.0	0.056	0.0	1.0	26.3	32.5	-38.7	50.6	310	0.667	0.0	1.0	0.07	0.0	1.0	26.7	33.3	-38.2	50.8	311	0.683	0.0	1.0	0.085	0.0	1.0	27.0	34.1	-37.7	50.9	312	0.7	0.0	1.0	0.1	0.0	1.0	27.3	34.8	-37.2	51.0	313	0.717	0.0	1.0	0.114	0.0	1.0	27.7	35.5	-36.7	51.2	314	0.733	0.0	1.0	0.13	0.0	1.0	27.9	36.3	-36.2	51.3	315	0.75	0.0	1.0	0.146	0.0	1.0	28.1	37.1	-35.7	51.6	316	0.767	0.0	1.0	0.163	0.0	1.0	28.2	37.9	-35.3	51.8	317	0.783	0.0	1.0	0.18	0.0	1.0	28.3	38.7	-34.8	52.1	318	0.8	0.0	1.0	0.197	0.0	1.0	28.5	39.5	-34.2	52.4	319	0.817	0.0	1.0	0.213	0.0	1.0	28.6	40.3	-33.7	52.6	320	0.833	0.0	1.0	0.23	0.0	1.0	28.7	41.1	-33.2	52.9	321	0.85	0.0	1.0	0.247	0.0	1.0	28.9	41.9	-32.6	53.1	322	0.867	0.0	1.0	0.259	0.0	1.0	29.2	42.7	-32.1	53.5	323	0.883	0.0	1.0	0.27	0.0	1.0	29.5	43.7	-31.6	54.0	324	0.9	0.0	1.0	0.282	0.0	1.0	29.9	44.6	-31.1	54.4	325	0.917	0.0	1.0	0.293	0.0	1.0	30.2	45.5	-30.6	54.8	326	0.933	0.0	1.0	0.304	0.0	1.0	30.6	46.4	-30.0	55.3	327	0.95	0.0	1.0	0.315	0.0	1.0	30.9	47.2	-29.4	55.7	328	0.967	0.0	1.0	0.326	0.0	1.0	31.3	48.1	-28.8	56.1	329	0.983	0.0	1.0	0.337	0.0	1.0	31.6	49.0	-28.2	56.6	330	M_s	1.0	0.0	1.0	0.322	0.0	1.0	31.1	47.8	-29.1	56.0	328	M_e	1.0	0.0	1.0	0.349	0.0	1.0	32.0	49.9	-27.5	57.0	331	1.0	0.0	0.983	0.332	0.0	1.0	31.5	48.6	-28.5	56.4	329	1.0	0.0	0.983	0.36	0.0	1.0	32.3	50.7	-26.9	57.5	332	1.0	0.0	0.967	0.371	0.0	1.0	32.7	51.6	-26.2	57.9	333	1.0	0.0	0.95	0.386	0.0	1.0	33.0	52.5	-25.5	58.4	334	1.0	0.0	0.933	0.404	0.0	1.0	33.4	53.5	-24.8	59.0	335	1.0	0.0	0.917	0.421	0.0	1.0	33.8	54.4	-24.1	59.6	336	1.0	0.0	0.9	0.438	0.0	1.0	34.2	55.4	-23.4	60.1	337	1.0	0.0	0.883	0.456	0.0	1.0	34.6	56.3	-22.6	60.7	338	1.0	0.0	0.867	0.473	0.0	1.0	35.0	57.2	-21.9	61.3	339	1.0	0.0	0.85	0.491	0.0	1.0	35.4	58.1	-21.1	61.9	340	1.0	0.0	0.833	0.508	0.0	1.0	35.8	59.1	-20.2	62.5	341	1.0	0.0	0.817	0.525	0.0	1.0	36.1	60.0	-19.4	63.1	342	1.0	0.0	0.8	0.542	0.0	1.0	36.4	61.0	-18.5	63.8	343	1.0	0.0	0.783	0.559	0.0	1.0	36.8	61.9	-17.7	64.4	344	1.0	0.0	0.767	0.576	0.0	1.0	37.1	62.9	-16.7	65.1	345	1.0	0.0	0.75	0.539	0.0	1.0	36.4	60.8	-18.7	63.7	342	1.0	0.0	0.75

1-1131531-L0 QE480-73 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 16/33

TUB-test chart QE48; hue code: $H^*_e=Y25G_e$
48 step hue circles; $rgb-LabCh$ *tables

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

TUB registration: 20130201-QE48/QE48L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)

TUB material: code=rha4ta

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

h _{ab,d}	h _{ab,s}	h _{ab,e}	rgb* dd361M		LAB* ddx361Mi (x=LabCh)						rgb* ds361Mi		LAB* dsx361Mi (x=LabCh)						rgb* dd361Mi		rgb* de361Mi		LAB* dex361Mi (x=LabCh)						rgb* dd361Mi		rgb* d _s	rgb* d _e				
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				
367	346	343	1.0	0.0	0.733	45.9	77.0	9.4	77.5	367	0.593	0.0	1.0	37.5	63.8	-15.8	65.7	346	1.0	0.0	0.733	0.555	0.0	1.0	36.7	61.7	-17.9	64.3	343	1.0	0.0	0.733				
367	347	344	1.0	0.0	0.716	45.9	76.8	10.3	77.5	367	0.61	0.0	1.0	37.8	64.7	-14.8	66.4	347	1.0	0.0	0.717	0.571	0.0	1.0	37.0	62.6	-17.0	64.9	344	1.0	0.0	0.717				
368	348	345	1.0	0.0	0.7	45.9	76.6	11.1	77.4	368	0.627	0.0	1.0	38.2	65.6	-13.8	67.1	348	1.0	0.0	0.7	0.587	0.0	1.0	37.3	63.5	-16.1	65.5	345	1.0	0.0	0.7				
368	349	346	1.0	0.0	0.683	45.9	76.4	11.9	77.3	368	0.654	0.0	1.0	39.0	66.8	-12.9	68.1	349	1.0	0.0	0.683	0.603	0.0	1.0	37.7	64.3	-15.2	66.1	346	1.0	0.0	0.683				
369	350	347	1.0	0.0	0.666	45.9	76.2	12.8	77.2	369	0.681	0.0	1.0	39.8	68.0	-11.9	69.1	350	1.0	0.0	0.667	0.619	0.0	1.0	38.0	65.2	-14.3	66.7	347	1.0	0.0	0.667				
370	351	348	1.0	0.0	0.65	46.0	75.9	13.6	77.2	370	0.708	0.0	1.0	40.6	69.2	-10.9	70.1	351	1.0	0.0	0.65	0.641	0.0	1.0	38.6	66.2	-13.4	67.6	348	1.0	0.0	0.65				
370	352	349	1.0	0.0	0.633	46.0	75.7	14.4	77.1	370	0.735	0.0	1.0	41.4	70.4	-9.8	71.1	352	1.0	0.0	0.633	0.667	0.0	1.0	39.3	67.4	-12.4	68.5	349	1.0	0.0	0.633				
371	353	350	1.0	0.0	0.616	46.0	75.5	15.2	77.1	371	0.765	0.0	1.0	42.1	71.6	-8.7	72.1	353	1.0	0.0	0.617	0.692	0.0	1.0	40.1	68.5	-11.5	69.5	350	1.0	0.0	0.617				
372	354	351	1.0	0.0	0.6	45.9	75.4	16.1	77.1	372	0.8	0.0	1.0	42.8	72.7	-7.5	73.1	354	1.0	0.0	0.6	0.717	0.0	1.0	40.9	69.6	-10.5	70.4	351	1.0	0.0	0.6				
372	355	352	1.0	0.0	0.583	45.9	75.2	16.9	77.1	372	0.835	0.0	1.0	43.5	73.9	-6.4	74.2	355	1.0	0.0	0.583	0.743	0.0	1.0	41.6	70.7	-9.5	71.4	352	1.0	0.0	0.583				
373	356	353	1.0	0.0	0.566	45.9	75.0	17.8	77.1	373	0.87	0.0	1.0	44.2	75.0	-5.1	75.2	356	1.0	0.0	0.567	0.774	0.0	1.0	42.3	71.9	-8.4	72.4	353	1.0	0.0	0.567				
374	357	354	1.0	0.0	0.55	45.9	74.8	18.6	77.1	374	0.904	0.0	1.0	44.7	76.2	-3.9	76.3	357	1.0	0.0	0.55	0.807	0.0	1.0	42.9	73.0	-7.3	73.3	354	1.0	0.0	0.55				
374	358	355	1.0	0.0	0.533	45.9	74.6	19.5	77.1	374	0.938	0.0	1.0	45.2	77.3	-2.6	77.3	358	1.0	0.0	0.533	0.84	0.0	1.0	43.6	74.1	-6.2	74.3	355	1.0	0.0	0.533				
375	359	356	1.0	0.0	0.516	45.9	74.4	20.3	77.1	375	0.971	0.0	1.0	45.7	78.4	-1.3	78.4	359	1.0	0.0	0.517	0.873	0.0	1.0	44.2	75.1	-5.0	75.3	356	1.0	0.0	0.517				
375	360	352	1.0	0.0	0.5	45.9	74.2	21.1	77.1	375	1.0	0.0	0.994	46.1	79.3	0.0	79.3	360	1.0	0.0	0.5	0.736	0.0	1.0	41.4	70.5	-9.7	71.1	352	1.0	0.0	0.5				
376	361	353	1.0	0.0	0.483	45.8	74.1	22.1	77.3	376	1.0	0.0	0.955	46.1	79.0	1.4	79.0	361	1.0	0.0	0.483	0.771	0.0	1.0	42.2	71.8	-8.5	72.3	353	1.0	0.0	0.483				
377	362	354	1.0	0.0	0.466	45.8	73.9	23.1	77.4	377	1.0	0.0	0.916	46.0	78.6	2.7	78.7	362	1.0	0.0	0.467	0.81	0.0	1.0	43.0	73.1	-7.2	73.4	354	1.0	0.0	0.467				
378	363	355	1.0	0.0	0.45	45.8	73.8	24.0	77.6	378	1.0	0.0	0.876	46.0	78.3	4.1	78.4	363	1.0	0.0	0.45	0.849	0.0	1.0	43.8	74.4	-5.9	74.6	355	1.0	0.0	0.45				
378	364	356	1.0	0.0	0.433	45.8	73.6	25.0	77.7	378	1.0	0.0	0.839	46.0	78.0	5.5	78.2	364	1.0	0.0	0.433	0.887	0.0	1.0	44.4	75.6	-4.5	75.8	356	1.0	0.0	0.433				
379	365	357	1.0	0.0	0.416	45.8	73.4	25.9	77.9	379	1.0	0.0	0.802	46.0	77.7	6.8	78.0	365	1.0	0.0	0.417	0.925	0.0	1.0	45.0	76.9	-3.1	77.0	357	1.0	0.0	0.417				
380	366	358	1.0	0.0	0.4	45.8	73.2	26.9	78.0	380	1.0	0.0	0.765	46.0	77.3	8.1	77.8	366	1.0	0.0	0.4	0.963	0.0	1.0	45.6	78.1	-1.6	78.1	358	1.0	0.0	0.4				
380	367	359	1.0	0.0	0.383	45.8	73.0	27.8	78.2	380	1.0	0.0	0.734	46.0	77.0	9.5	77.6	367	1.0	0.0	0.383	1.0	0.0	1.0	46.1	79.3	-0.1	79.3	359	1.0	0.0	0.383				
381	368	360	1.0	0.0	0.366	45.8	72.9	28.7	78.4	381	1.0	0.0	0.708	46.0	76.7	10.8	77.5	368	1.0	0.0	0.367	1.0	0.0	0.956	46.1	79.0	1.3	79.0	360	1.0	0.0	0.367				
382	369	362	1.0	0.0	0.35	45.8	72.8	29.6	78.6	382	1.0	0.0	0.681	46.0	76.4	12.1	77.4	369	1.0	0.0	0.35	1.0	0.0	0.912	46.0	78.6	2.9	78.7	362	1.0	0.0	0.35				
382	370	363	1.0	0.0	0.333	45.7	72.7	30.4	78.8	382	1.0	0.0	0.655	46.0	76.1	13.4	77.2	370	1.0	0.0	0.333	1.0	0.0	0.869	46.0	78.2	4.4	78.3	363	1.0	0.0	0.333				
383	371	364	1.0	0.0	0.316	45.7	72.6	31.2	79.1	383	1.0	0.0	0.628	46.0	75.7	14.7	77.1	371	1.0	0.0	0.317	1.0	0.0	0.828	46.0	77.9	5.9	78.1	364	1.0	0.0	0.317				
383	372	365	1.0	0.0	0.3	45.7	72.5	32.1	79.3	383	1.0	0.0	0.602	46.0	75.4	16.0	77.1	372	1.0	0.0	0.3	1.0	0.0	0.786	46.0	77.5	7.4	77.9	365	1.0	0.0	0.3				
384	373	366	1.0	0.0	0.283	45.6	72.4	32.9	79.6	384	1.0	0.0	0.576	46.0	75.2	17.4	77.1	373	1.0	0.0	0.283	1.0	0.0	0.746	46.0	77.1	8.8	77.7	366	1.0	0.0	0.283				
385	374	367	1.0	0.0	0.266	45.6	72.3	33.8	79.8	385	1.0	0.0	0.55	45.9	74.9	18.7	77.2	374	1.0	0.0	0.267	1.0	0.0	0.717	46.0	76.8	10.3	77.5	367	1.0	0.0	0.267				
385	375	368	1.0	0.0	0.25	45.6	72.1	34.6	80.0	385	1.0	0.0	0.524	45.9	74.5	20.0	77.2	375	1.0	0.0	0.25	1.0	0.0	0.687	46.0	76.5	11.8	77.4	368	1.0	0.0	0.25				
386	376	369	1.0	0.0	0.233	45.6	72.1	35.3	80.3	386	1.0	0.0	0.498	45.9	74.2	21.3	77.2	376	1.0	0.0	0.233	1.0	0.0	0.658	46.0	76.1	13.3	77.2	369	1.0	0.0	0.233				
386	377	370	1.0	0.0	0.216	45.6	72.0	36.1	80.5	386	1.0	0.0	0.475	45.9	74.0	22.6	77.4	377	1.0	0.0	0.217	1.0	0.0	0.628	46.0	75.7	14.7	77.1	370	1.0	0.0	0.217				
387	378	372	1.0	0.0	0.2	45.6	71.9	36.8	80.8	387	1.0	0.0	0.451	45.9	73.8	24.0	77.6	378	1.0	0.0	0.2	1.0	0.0	0.599	46.0	75.4	16.2	77.1	372	1.0	0.0	0.2				
387	379	373	1.0	0.0	0.183	45.5	71.8	37.5	81.0	387	1.0	0.0	0.428	45.9	73.6	25.3	77.8	379	1.0	0.0	0.183	1.0	0.0	0.57	46.0	75.1	17.6	77.1	373	1.0	0.0	0.183				
388	380	374	1.0	0.0	0.166	45.5	71.7	38.2	81.3	388	1.0	0.0	0.404	45.9	73.3	26.7	78.0	380	1.0	0.0	0.167	1.0	0.0	0.541	45.9	74.8	19.1	77.2	374	1.0	0.0	0.167				
388	381	375	1.0	0.0	0.15	45.5	71.6	39.0	81.5	388	1.0	0.0	0.38	45.8	73.1	28.0	78.3	381	1.0	0.0	0.15	1.0	0.0	0.512	45.9	74.4	20.6	77.2	375	1.0	0.0	0.15				
389	382	376	1.0	0.0	0.133	45.5	71.5	39.7	81.8	389	1.0	0.0	0.353	45.8	72.9	29.4	78.6	382	1.0	0.0	0.133	1.0	0.0	0.485	45.9	74.1	22.0	77.3	376	1.0	0.0	0.133				
389	383	377	1.0	0.0	0.116	45.5	71.4	40.4	82.1	389	1.0	0.0	0.325	45.8	72.7	30.9	79.0	383	1.0	0.0	0.117	1.0	0.0	0.459	45.9	73.9	23.6	77.6	377	1.0	0.0	0.117				
389	384	378	1.0	0.0	0.1	45.5	71.3	41.0	82.3	389	1.0	0.0	0.297	45.7	72.5	32.3	79.4	384	1.0	0.0	0.1	1.0	0.0	0.433	45.9	73.6	25.1	77.8	378	1.0	0.0	0.1				
390	385																																			

1-1131631-L0 QE480-73 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 17/33

TUB-test chart QE48; hue code: $H^*_e=Y25G_e$
48 step hue circles; $rgb-LabCh$ *tables

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

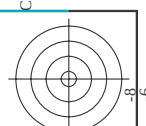
TUB registration: 20130201-QE48/QE48L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)

TUB material: code=rha4ta



TUB registration: 20130201-QE48/QE48L0FP.PDF /.PS
- application for measurement of offset print output, separations

TUB material: code=rha4ta
my0* (CMY0)

[illegible]

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

TUB-test chart QE48; hue code: $H_e^* = Y25G_e$
colors and differences, ΔE^*



TUB material: code=rha4ta
ny0* (CMY0)

C M Y O L

TUB-test chart QE48; hue code: $H_e^* = Y25G_e$
 colors and differences, ΔE^* , *
 C M Y

V L O Y

n	HIC [†] F _{de}	rgb [†] F _{de}	ict [†] F _{de}	r _{ha} [†] F _{de}	rgb [†] F _{de}	LabiCH [†] % _{de}	cmym [†] % _{sep,Fde}	hsan [†] F _{de}	rgb [†] % _{de}	LabiCH [†] % _{de}	delta
0	NW_000de	0.0	0.0	360	0.0	24.3	0.0	0.0	1.0	95.6	0.0
1	B00R_012_012de	0.0	0.125	0.062	270	0.0	0.057	0.125	26.3	0.1	-5.0
2	B00R_025_025de	0.0	0.25	0.125	270	0.0	0.114	0.25	28.3	0.3	-10.1
3	B00R_037_037de	0.0	0.375	0.187	270	0.0	0.171	0.375	30.3	0.4	-15.2
4	B00R_050_050de	0.0	0.5	0.25	270	0.0	0.229	0.5	32.3	0.6	-20.3
5	B00R_062_062de	0.0	0.625	0.312	270	0.0	0.286	0.625	34.3	0.7	-25.4
6	B00R_075_075de	0.0	0.75	0.375	270	0.0	0.343	0.75	36.2	0.9	-30.5
7	B00R_087_087de	0.0	0.875	0.437	270	0.0	0.4	0.875	38.2	1.0	-35.5
8	B00R_100_100de	0.0	1.0	0.5	270	0.0	0.458	1.0	40.2	1.2	-40.6
9	G50B_012_012de	0.125	0.125	0.062	150	0.0	0.125	0.018	27.6	-7.7	2.4
10	G50B_025_025de	0.125	0.125	0.125	0.062	210	0.0	0.125	0.093	28.2	-4.5
11	G75B_025_025de	0.125	0.25	0.125	240	0.0	0.211	0.25	31.6	-4.9	-10.3
12	G84B_037_037de	0.125	0.375	0.187	251	0.0	0.25	0.375	33.1	-4.3	-15.4
13	G88B_050_050de	0.0	0.125	0.25	256	0.0	0.301	0.5	35.0	-3.9	-20.4
14	B00B_062_062de	0.0	0.125	0.625	0.312	259	0.0	0.375	0.625	36.9	-3.7
15	G92B_075_075de	0.0	0.125	0.75	0.375	261	0.0	0.414	0.75	38.9	-3.4
16	G93B_087_087de	0.0	0.125	0.875	0.437	262	0.0	0.474	0.875	40.9	-3.4
17	G94B_100_100de	0.0	1.0	0.5	263	0.0	0.532	1.0	42.9	-3.3	-40.8
18	G25B_025_025de	0.0	0.25	0.125	150	0.0	0.25	0.037	30.7	-15.5	4.9
19	G25B_025_025de	0.0	0.125	0.25	180	0.0	0.25	0.1125	31.5	-12.1	-2.0
20	G25B_025_025de	0.0	0.25	0.125	160	0.0	0.25	0.186	32.2	-9.0	-6.8
21	G25B_025_025de	0.0	0.375	0.187	229	0.0	0.375	0.35	38.3	-10.4	-14.6
22	G50B_062_062de	0.0	0.25	0.375	0.187	240	0.0	0.423	0.375	40.4	-3.9
23	G50B_062_062de	0.0	0.25	0.625	0.312	247	0.0	0.453	0.625	42.9	-8.9
24	G84B_075_075de	0.0	0.25	0.75	0.375	251	0.0	0.5	0.75	41.9	-8.6
25	G86B_087_087de	0.0	0.25	0.875	0.437	254	0.0	0.545	0.875	43.7	-8.1
26	G88B_100_100de	0.0	0.25	1.0	0.5	256	0.0	0.602	1.0	45.6	-7.9
27	G15B_037_037de	0.0	0.375	0.187	150	0.0	0.375	0.056	34.2	-23.2	7.4
28	G15B_037_037de	0.0	0.375	0.375	0.187	169	0.0	0.375	0.151	34.8	-20.0
29	G34B_037_037de	0.0	0.375	0.375	0.187	191	0.0	0.375	0.222	35.4	-16.5
30	G61B_050_050de	0.0	0.375	0.5	0.5	224	0.0	0.375	0.28	35.8	-13.5
31	G69B_062_062de	0.0	0.375	0.625	0.312	233	0.0	0.625	0.621	44.6	-16.1
32	G75B_075_075de	0.0	0.75	0.375	240	0.0	0.634	0.75	46.0	-14.8	-31.0
33	G79B_087_087de	0.0	0.875	0.437	245	0.0	0.662	0.875	47.3	-13.6	-36.0
34	G81B_100_100de	0.0	1.0	0.5	248	0.0	0.711	1.0	49.2	-13.6	-41.1
35	G00B_050_050de	0.0	0.5	0.25	150	0.0	0.5	0.075	37.5	-31.0	9.9
36	G11B_050_050de	0.0	0.5	0.25	164	0.0	0.5	0.175	38.1	-27.7	2.4
37	G25B_050_050de	0.0	0.5	0.25	180	0.0	0.5	0.251	38.6	-24.3	-4.1
38	G38B_050_050de	0.0	0.5	0.25	196	0.0	0.5	0.316	39.2	-21.0	-9.4
39	G50B_050_050de	0.0	0.5	0.25	210	0.0	0.5	0.373	39.7	-18.1	-13.6
40	G50B_062_062de	0.0	0.5	0.625	0.312	221	0.0	0.625	0.537	-40.1	-19.6
41	G55B_075_075de	0.0	0.5	0.75	0.375	229	0.0	0.75	0.711	48.4	-20.8
42	G65B_075_075de	0.0	0.5	0.875	0.437	235	0.0	0.846	0.875	52.0	-21.1
43	G75B_100_100de	0.0	0.5	1.0	0.5	240	0.0	0.846	1.0	53.3	-19.8
44	G00B_062_062de	0.0	0.625	0.625	0.312	150	0.0	0.625	0.094	40.8	-38.8
45	G09B_062_062de	0.0	0.625	0.625	0.312	161	0.0	0.625	0.195	41.4	-35.6
46	G19B_062_062de	0.0	0.625	0.625	0.312	173	0.0	0.625	0.274	41.9	-32.4
47	G30B_062_062de	0.0	0.625	0.625	0.312	187	0.0	0.625	0.349	42.5	-28.7
48	G40B_062_062de	0.0	0.625	0.625	0.312	199	0.0	0.625	0.411	43.0	-25.5
49	G50B_062_062de	0.0	0.625	0.625	0.312	210	0.0	0.625	0.467	43.5	-22.6
50	G57B_075_075de	0.0	0.625	0.75	0.375	219	0.0	0.75	0.629	47.8	-24.2
51	G57B_075_075de	0.0	0.625	0.875	0.437	226	0.0	0.875	0.8	52.2	-25.5
52	G68B_100_100de	0.0	0.625	1.0	0.5	232	0.0	1.0	0.982	56.6	-46.3
53	G00B_075_075de	0.0	0.75	0.375	150	0.0	0.75	0.113	44.6	-26.5	14.9
54	G07B_075_075de	0.0	0.75	0.375	159	0.0	0.75	0.202	45.2	-43.3	7.3
55	G15B_075_075de	0.0	0.75	0.375	169	0.0	0.75	0.315	46.4	-40.1	3.3
56	G23B_075_075de	0.0	0.75	0.375	183	0.0	0.75	0.436	48.4	-46.1	38.9
57	G23B_075_075de	0.0	0.75	0.375	191	0.0	0.75	0.494	48.8	-33.1	11.8
58	G42B_075_075de	0.0	0.75	0.375	200	0.0	0.75	0.505	49.4	-30.2	20.8
59	G50B_075_075de	0.0	0.75	0.375	209	0.0	0.75	0.56	47.3	-27.1	20.3
60	G56B_087_087de	0.0	0.75	0.875	0.437	218	0.0	0.875	0.725	51.6	-28.7
61	G61B_100_100de	0.0	0.75	1.0	0.5	224	0.0	1.0	0.892	56.0	-30.0
62	G61B_100_100de	0.0	0.75	1.0	0.5	224	0.0	1.0	0.892	56.0	-30.0
63	G68B_087_087de	0.0	0.875	0.875	0.437	150	0.0	0.875	0.132	47.3	-54.3
64	G68B_087_087de	0.0	0.875	0.875	0.437	158	0.0	0.875	0.239	48.0	-50.9
65	G13B_087_087de	0.0	0.875	0.875	0.437	166	0.0	0.875	0.329	48.5	-47.7
66	G20B_087_087de	0.0	0.875	0.875	0.437	175	0.0	0.875	0.4	49.1	-44.6
67	G20B_087_087de	0.0	0.875	0.875	0.437	185	0.0	0.875	0.475	49.7	-40.9
68	G36B_087_087de	0.0	0.875	0.875	0.437	194	0.0	0.875	0.54	50.2	-37.4
69	G43B_087_087de	0.0	0.875	0.875	0.437	202	0.0	0.875	0.597	50.7	-34.7
70	G50B_087_087de	0.0	0.875	0.875	0.437	210	0.0	0.875	0.653	51.1	-31.6
71	G55B_100_100de	0.0	1.0	0.5	217	0.0	1.0	0.818	55.5	-33.2	-31.4
72	G00B_100_100de	0.0	1.0	0.5	150	0.0	1.0	0.151	50.6	-62.1	19.6
73	G05B_100_100de	0.0	1.0	0.5	157	0.0	1.0	0.261	51.3	-58.6	11.8
74	G11B_100_100de	0.0	1.0	0.5	164	0.0	1.0	0.35	51.8	-55.5	4.8
75	G18B_100_100de	0.0	1.0	0.5	172	0.0	1.0	0.43	52.4	-52.2	-2.1
76	G23B_100_100de	0.0	1.0	0.5	180	0.0	1.0	0.508	53.0	-48.6	-13.8
77	G31B_100_100de	0.0	1.0	0.5	188	0.0	1.0	0.562	53.5	-45.5	-49.2
78	G38B_100_100de	0.0	1.0	0.5	196	0.0	1.0	0.633	54.1	-42.0	-18.8
79	G44B_100_100de	0.0	1.0	0.5	203	0.0	1.0	0.69	54.5	-39.3	-23.2
80	G50B_100_100de	0.0	1.0	0.5	210	0.0	1.0	0.747	55.0	-36.2	-27.2

Mean color difference of this page:

see similar files: <http://130.149.60.45/~farbmetrik/QE48/QE48.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

<http://130.149.60.45/~farbmatrik/QE48/QE48L0FP.PDF> /PS; 3D-linearization
F: 3D-linearization QE48/QE48L30FP.DAT in file (F), page 25/33

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

TUB-test chart QE48; hue code: $H_e^* = Y25G_e$
 colors and differences, ΔE^* , *
 C M Y

n	HIC [†] z	rgb [†] z	lcl [†] z	haz [†] z	rgb [†] z	lclCH [†] z	cmym [†] z	cmym [†] z	haz [†] z	rgb [†] z	lclCH [†] z	haz [†] z	delta																	
405	R00Y_062_062z	0.625	0.0	0.625	0.625	0.312	390	R00Y_062_062z	0.625	0.0	0.159	376	45.1	21.5	50.0	0.851	0.94	0.446	0.937	0.634	0.0	0.0	0.254	45.6	72.2	34.4	80.0	25.4		
406	R31Y_062_062z	0.625	0.0	0.125	0.625	0.312	379	R00Y_062_062z	0.625	0.0	0.356	378	46.9	11.7	48.2	13.2	0.447	0.937	0.634	0.0	0.0	0.57	45.6	75.0	17.6	77.1	13.2			
407	R11Y_062_062z	0.625	0.0	0.25	0.625	0.312	367	R00Y_062_062z	0.625	0.0	0.624	379	49.5	-0.1	49.5	359.8	0.456	0.941	0.426	0.0	0.0	0.999	46.1	79.3	-0.1	79.3	359.8			
408	B69R_062_062z	0.625	0.0	0.375	0.625	0.312	353	R00Y_062_062z	0.625	0.0	0.625	34.2	42.8	-7.2	43.4	350.4	0.601	0.958	0.4	0.0	0.692	0.0	1.0	40.0	68.5	-11.5	69.4	350.4		
409	B59R_062_062z	0.625	0.0	0.5	0.625	0.312	341	R00Y_062_062z	0.625	0.0	0.296	0.0	0.625	31.0	35.7	-13.7	38.3	339.0	0.697	0.97	0.377	0.0	1.0	35.0	57.2	-21.9	61.3	339.0		
410	B50R_062_062z	0.625	0.0	0.625	0.625	0.312	330	R00Y_062_062z	0.625	0.0	0.201	0.0	0.625	28.5	29.8	-18.2	34.9	328.6	0.781	0.984	0.373	0.0	1.0	31.1	47.7	-29.1	55.9	328.6		
411	B42R_075_075z	0.625	0.0	0.75	0.75	0.375	321	R00Y_062_062z	0.625	0.0	0.161	0.0	0.75	27.5	30.2	-25.3	39.4	320.0	0.848	1.0	0.269	0.0	1.0	28.6	40.3	-33.7	52.6	320.0		
412	B36R_087_087z	0.625	0.0	0.875	0.875	0.437	314	R00Y_062_062z	0.625	0.0	0.092	0.0	0.875	27.0	30.7	-32.4	44.7	313.4	0.994	1.0	0.135	0.0	1.0	27.4	35.1	-39.7	50.3	313.4		
413	R18Y_100_100z	0.625	0.0	1.0	1.0	0.5	308	R00Y_062_062z	0.625	0.0	0.022	0.0	1.0	25.5	30.7	-39.7	50.3	307.7	0.977	0.999	0.0	1.0	0.0	25.5	30.7	-39.7	50.3	307.7		
414	R18Y_100_100z	0.625	0.125	0.0	0.625	0.312	41	R00Y_062_062z	0.625	0.072	0.0	39.5	36.6	30.0	50.1	37.7	0.442	0.865	1.0	0.0	0.115	0.0	0.0	48.6	63.4	49.1	80.2	37.7		
415	R00Y_062_050z	0.625	0.125	0.125	0.625	0.312	41	R00Y_062_062z	0.625	0.125	0.252	43.9	36.1	17.2	40.0	25.4	0.418	0.79	0.65	0.0	0.0	0.0	45.6	72.2	34.4	80.0	25.4			
416	R26Y_062_050z	0.625	0.125	0.25	0.625	0.312	376	R00Y_062_062z	0.625	0.125	0.453	44.0	38.0	6.4	38.6	9.8	0.426	0.795	0.492	0.0	0.0	0.0	65.7	46.0	76.1	13.2	77.2	9.8		
417	R00Y_062_050z	0.625	0.125	0.375	0.625	0.312	360	R00Y_062_062z	0.625	0.125	0.625	41.8	35.2	-9.8	35.5	352.0	0.526	0.811	0.364	0.0	0.0	0.0	73.6	0.0	71.1	352.0	0.0			
418	B61R_062_050z	0.625	0.125	0.5	0.625	0.312	344	R00Y_062_062z	0.625	0.125	0.625	39.1	29.9	-9.8	31.5	341.8	0.623	0.881	0.345	0.0	0.0	0.0	53.2	0.0	1.0	36.0	59.9	-19.6	63.0	341.8
419	B60R_062_050z	0.625	0.125	0.625	0.625	0.312	330	R00Y_062_062z	0.625	0.125	0.625	36.6	23.8	-14.5	27.9	328.6	0.703	0.802	0.334	0.0	0.0	0.0	31.1	47.7	-29.1	55.9	328.6			
420	B40R_075_062z	0.625	0.125	0.75	0.75	0.375	319	R00Y_062_062z	0.625	0.125	0.75	35.7	24.2	-21.7	32.5	318.1	0.737	0.804	0.227	0.0	0.0	0.0	28.3	38.8	-34.7	52.1	318.1			
421	B34R_087_075z	0.625	0.125	0.875	0.875	0.437	310	R00Y_062_062z	0.625	0.125	0.875	34.9	24.7	-28.8	38.0	304.9	0.792	0.811	0.116	0.0	0.0	0.0	26.5	32.9	-38.4	50.6	310.5			
422	B29R_100_087z	0.625	0.125	1.0	1.0	0.5	311	R00Y_062_062z	0.625	0.125	1.0	34.4	24.7	-35.4	43.1	304.9	0.855	0.881	0.116	0.0	0.0	0.0	25.7	28.2	-40.4	49.3	304.9			
423	R38Y_062_062z	0.625	0.25	0.0	0.625	0.312	53	R00Y_062_062z	0.625	0.188	0.0	44.1	29.5	36.5	46.9	51.0	0.437	0.749	1.0	0.0	0.0	0.0	55.9	47.2	58.5	75.1	51.0			
424	R23Y_062_062z	0.625	0.25	0.125	0.625	0.312	44	R00Y_062_062z	0.625	0.208	0.125	46.3	29.6	25.8	49.3	41.0	0.413	0.726	0.763	0.0	0.0	0.0	50.5	59.2	31.6	78.6	41.0			
425	R00Y_062_037z	0.625	0.25	0.25	0.625	0.312	490	R00Y_062_062z	0.625	0.25	0.345	50.1	27.0	12.9	30.0	25.4	0.401	0.657	0.322	0.0	0.0	0.0	45.6	72.2	34.4	80.0	25.4			
426	R00Y_062_037z	0.625	0.25	0.375	0.625	0.312	490	R00Y_062_062z	0.625	0.25	0.345	50.1	27.0	12.9	30.0	25.4	0.401	0.657	0.322	0.0	0.0	0.0	45.6	72.2	34.4	80.0	25.4			
427	B58R_062_037z	0.625	0.25	0.5	0.625	0.312	349	R00Y_062_062z	0.625	0.25	0.625	44.0	24.2	-19.7	27.2	346.6	0.537	0.684	0.229	0.0	0.0	0.0	27.9	64.3	-35.3	68.1	346.6			
428	B58R_062_037z	0.625	0.25	0.625	0.625	0.312	349	R00Y_062_062z	0.625	0.25	0.625	44.0	24.2	-19.7	27.2	346.6	0.537	0.684	0.229	0.0	0.0	0.0	27.9	64.3	-35.3	68.1	346.6			
429	B30R_062_037z	0.625	0.25	0.625	0.625	0.312	330	R00Y_062_062z	0.625	0.25	0.625	44.7	17.9	-10.9	20.9	328.3	0.642	0.662	0.205	0.0	0.0	0.0	27.1	36.5	-36.1	51.4	328.3			
430	B30R_062_037z	0.625	0.25	0.75	0.75	0.375	316	R00Y_062_062z	0.625	0.25	0.75	43.9	18.2	-18.0	25.7	315.3	0.672	0.658	0.205	0.0	0.0	0.0	27.7	36.5	-36.1	51.4	328.3			
431	B30R_087_062z	0.625	0.25	0.875	0.875	0.437	307	R00Y_062_062z	0.625	0.25	0.875	42.7	18.7	-25.1	31.3	306.8	0.711	0.655	0.106	0.0	0.0	0.0	25.2	30.0	-40.1	50.1	306.8			
432	B30R_087_062z	0.625	0.25	1.0	1.0	0.5	306	R00Y_062_062z	0.625	0.25	1.0	44.9	17.6	-30.2	35.0	300.1	0.717	0.593	0.0	0.0	0.0	0.0	28.1	23.4	-40.3	46.7	300.1			
433	R61Y_062_062z	0.625	0.375	0.0	0.625	0.312	67	R00Y_062_062z	0.625	0.308	0.0	49.5	18.4	42.7	46.5	66.6	0.426	0.629	0.996	0.0	0.0	0.0	64.6	29.4	68.4	74.5	66.6			
434	R31Y_062_062z	0.625	0.375	0.125	0.625	0.312	67	R00Y_062_062z	0.625	0.308	0.125	51.2	19.1	31.7	37.0	28.5	0.468	0.599	0.579	0.0	0.0	0.0	60.2	38.2	63.4	74.1	46.6			
435	R00Y_062_025z	0.625	0.375	0.25	0.625	0.312	49	R00Y_062_062z	0.625	0.342	0.25	53.1	19.6	20.7	28.5	25.4	0.398	0.579	0.629	0.0	0.0	0.0	53.5	52.2	55.3	72.2	34.4	80.0	25.4	
436	R00Y_062_025z	0.625	0.375	0.375	0.625	0.312	49	R00Y_062_062z	0.625	0.342	0.375	53.1	19.6	20.7	28.5	25.4	0.398	0.579	0.629	0.0	0.0	0.0	53.5	52.2	55.3	72.2	34.4	80.0	25.4	
437	B00Y_062_025z	0.625	0.375	0.5	0.625	0.312	390	R00Y_062_062z	0.625	0.375	0.625	55.7	17.6	-2.4	17.7	352.0	0.528	0.538	0.303	0.0	0.0	0.0	41.1	70.7	-29.1	55.9	328.6			
438	B00Y_062_025z	0.625	0.375	0.625	0.625	0.312	390	R00Y_062_062z	0.625	0.375	0.625	55.7	17.6	-2.4	17.7	352.0	0.528	0.538	0.303	0.0	0.0	0.0	41.1	70.7	-29.1	55.9	328.6			
439	B34R_075_037z	0.625	0.375	0.75	0.75	0.375	356	R00Y_062_062z	0.625	0.375	0.75	51.9	12.3	-14.4	19.0	310.1	0.614	0.527	0.199	0.0	0.0	0.0	26.5	32.9	-38.4	50.6	310.5			
440	B19R_100_062z	0.625	0.375	1.0	1.0	0.625	0.687	293	R00Y_062_062z	0.625	0.498	1.0	55.3	11.0	-25.2	27.5	293.5	0.633	0.453	0.006	0.0	0.0	0.0	1.0	17.6	-40.4	44.1	293.5		
441	R81Y_062_062z	0.625	0.5	0.0	0.625	0.312	79	R00Y_062_062z	0.625	0.405	0.0	54.8	8.5	-49.0	49.8	80.0	0.415	0.494	0.985	0.0	0.0	0.0	0.198	1.0	31.1	17.6	-40.4	44.1	293.5	
442	R67Y_062_050z	0.625	0.5	0.125	0.625	0.312	76	R00Y_062_062z	0.625	0.427	0.125	56.5	8.9	37.9	38.4	71.1	0.398	0.459	0.644	0.0	0.0	0.0	0.604	0.0	67.4	71.9	75.9	76.7		
443	R67Y_062_037z	0.625	0.5	0.25	0.625	0.312	71	R00Y_062_062z	0.625	0.453	0.25	58.3	9.2	26.9	28.9	64.0	0.408	0.480	0.806	0.0	0.0	0.0	0.543	0.0	67.4	71.9	75.9	76.7		
444	R00Y_062_025z	0.625	0.5	0.375	0.625	0.312	65	R00Y_062_062z	0.625	0.474	0.375	60.0	9.5	13.8	18.5	58.8	0.395	0.44	0.495	0.0	0.0	0.0	0.398	0.0	60.2	38.2	63.4	74.1	58.8	
445	R00Y_062_025z	0.625	0.5	0.625	0.625	0.312	65	R00Y_062_062z	0.625	0.474	0.375	60.0	9.5	13.8	18.5	58.8	0.395	0.44	0.495	0.0	0.0	0.0	0.398	0.0	60.2	38.2	63.4	74.1	58.8	
446	B50R_062_012z	0.625	0.5	0.625	0.625	0.312	390	R00Y_062_062z	0.625	0.5	0.531	62.6	9.0	4.3	10.0	25.4	0.402	0.407	0.335	0.0	0.0	0.0	0.321	0.0	31.1	47.7	-29.1	55.9	328.6	
447	B50R_062_012z	0.625	0.5	0.75	0.75	0.375	300	R00Y_062_062z	0.625	0.5	0.531	62.6	9.0	4.3	10.0	25.4	0.402	0.407	0.335	0.0	0.0	0.0	0.321	0.0	31.1	47.7	-29.1	55.9	328.6	
448	B11R_100_037z	0.625	0.5	0.875	0.875	0.437	289	R00Y_062_062z	0.625	0.5																				

Mean color difference of this page:

OE480-7N, Page 27/33-F

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



TUB registration: 20130201-QE48/QE48L0FP.PDF /.PS TUB material: code=rha4ta
application for measurement of offset print output, separation cmy0* (CMY0)

see similar files: <http://130.149.60.45/~farbmetrik/QE48/QE48L0FP.PDF>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

n	HC*Fide	rgb_Fide	lct_Fide	lrs_Fide	rgb*Fide	LabCH*Fide	cmyn*sep_Fide	cmyn*sep_Fide	rgb*Fide	lrs_Fide	LabCH*Fide	delta
1053	NW_086de	0.866	0.866	0.866	0.866	86.6	0.0	0.0	0.0	0.0	0.0	0.0
1054	NW_093de	0.933	0.933	0.933	0.933	93.3	0.0	0.0	0.0	0.0	0.0	0.0
1055	NW_100de	1.0	1.0	1.0	1.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
1056	NW_100de	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1057	NW_006de	0.066	0.066	0.066	0.066	6.6	0.0	0.0	0.0	0.0	0.0	0.0
1058	NW_013de	0.133	0.133	0.133	0.133	13.3	0.0	0.0	0.0	0.0	0.0	0.0
1059	NW_020de	0.2	0.2	0.2	0.2	20.0	0.0	0.0	0.0	0.0	0.0	0.0
1060	NW_026de	0.266	0.266	0.266	0.266	26.6	0.0	0.0	0.0	0.0	0.0	0.0
1061	NW_033de	0.333	0.333	0.333	0.333	33.3	0.0	0.0	0.0	0.0	0.0	0.0
1062	NW_040de	0.4	0.4	0.4	0.4	40.0	0.0	0.0	0.0	0.0	0.0	0.0
1063	NW_046de	0.466	0.466	0.466	0.466	46.6	0.0	0.0	0.0	0.0	0.0	0.0
1064	NW_053de	0.533	0.533	0.533	0.533	53.3	0.0	0.0	0.0	0.0	0.0	0.0
1065	NW_060de	0.6	0.6	0.6	0.6	60.0	0.0	0.0	0.0	0.0	0.0	0.0
1066	NW_066de	0.666	0.666	0.666	0.666	66.6	0.0	0.0	0.0	0.0	0.0	0.0
1067	NW_073de	0.734	0.734	0.734	0.734	73.4	0.0	0.0	0.0	0.0	0.0	0.0
1068	NW_080de	0.8	0.8	0.8	0.8	80.0	0.0	0.0	0.0	0.0	0.0	0.0
1069	NW_086de	0.866	0.866	0.866	0.866	86.6	0.0	0.0	0.0	0.0	0.0	0.0
1070	NW_093de	0.933	0.933	0.933	0.933	93.3	0.0	0.0	0.0	0.0	0.0	0.0
1071	NW_100de	1.0	1.0	1.0	1.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
1072	NW_100de	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1073	ROY_100_100de	1.0	1.0	1.0	1.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
1074	G50B_100_100de	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1075	Y06C_100_100de	1.0	1.0	1.0	1.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
1076	B06C_100_100de	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1077	B06C_100_100de	1.0	1.0	1.0	1.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
1078	B06C_100_100de	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1079	B50R_100_100de	1.0	1.0	1.0	1.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0

